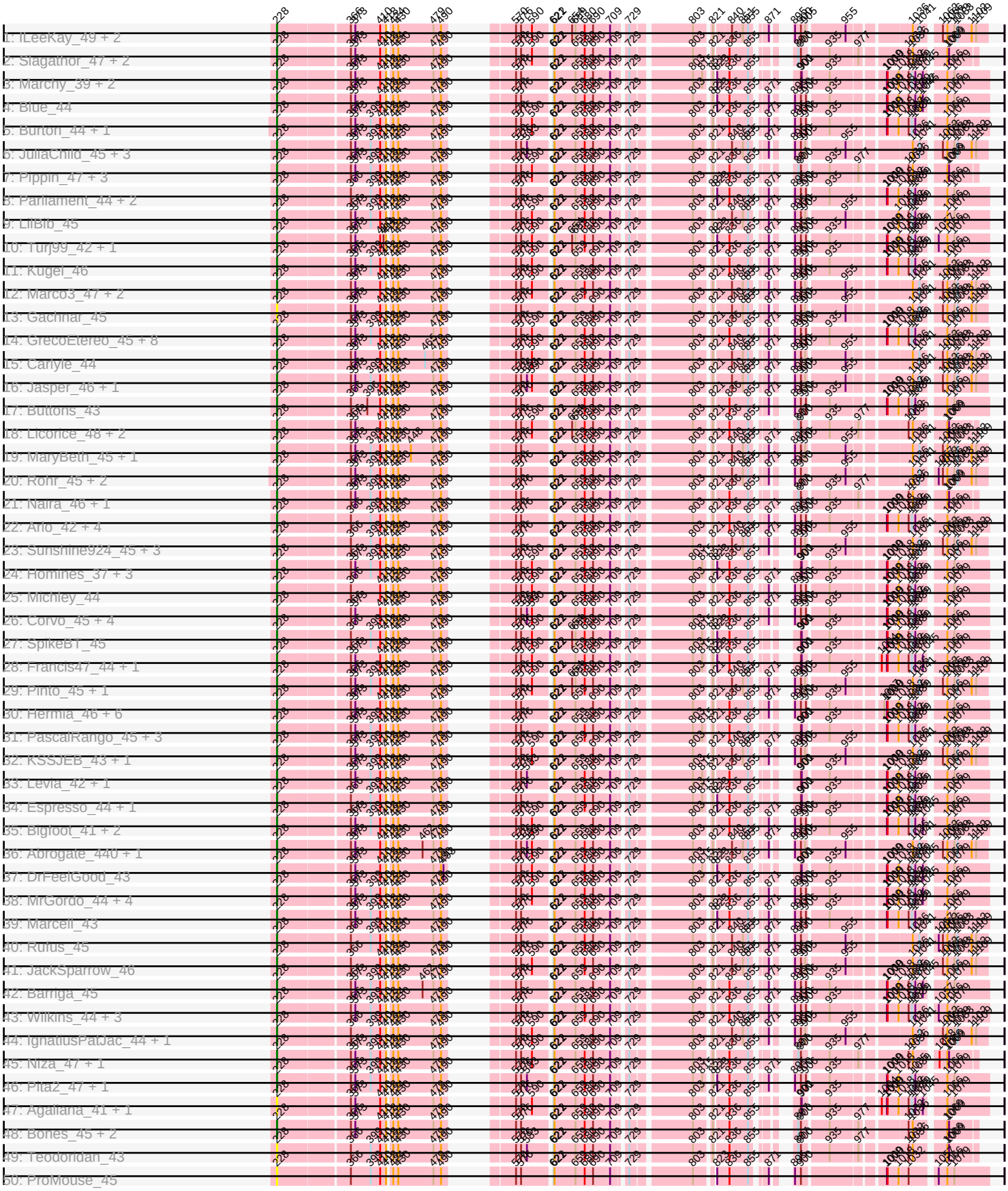
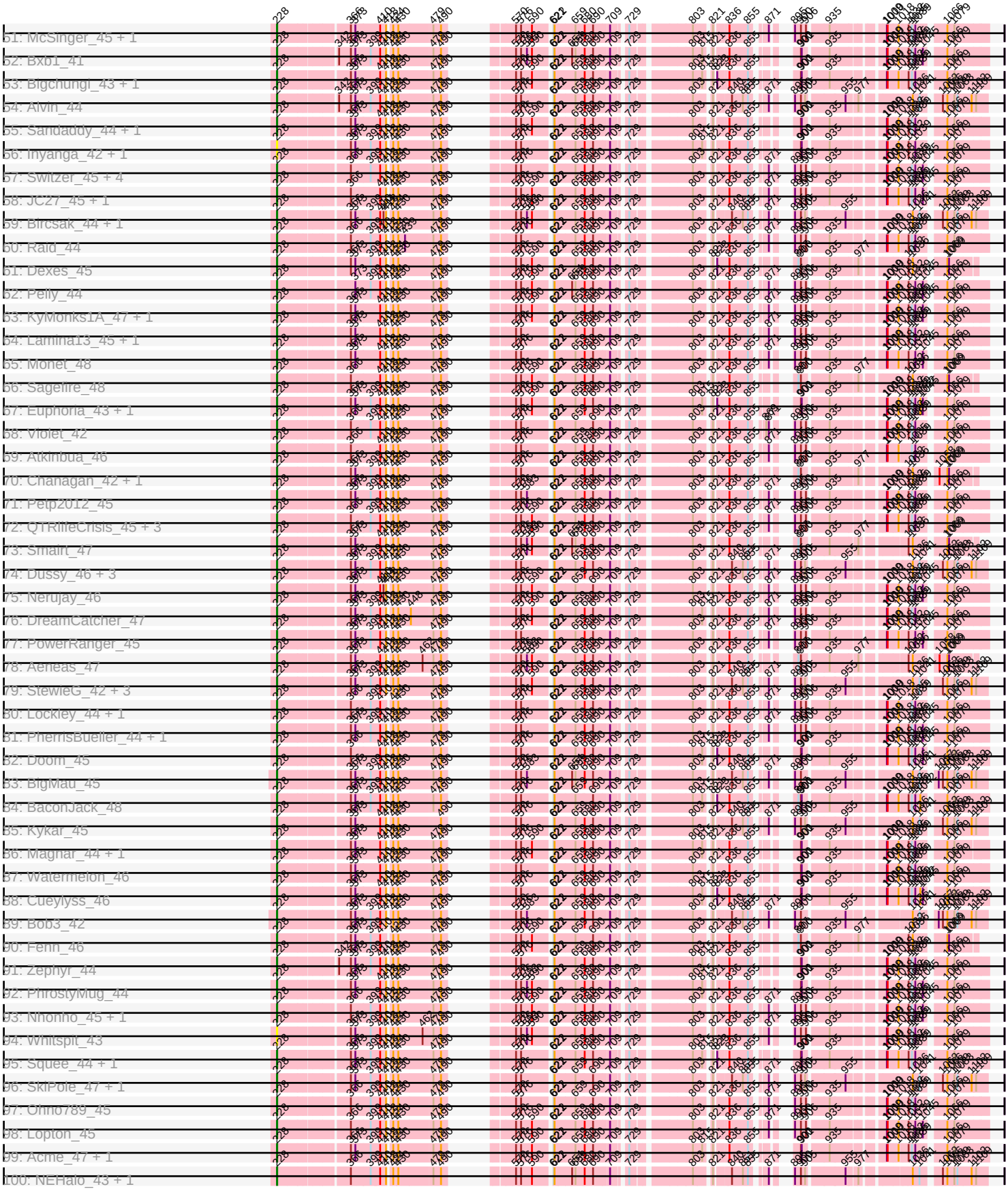
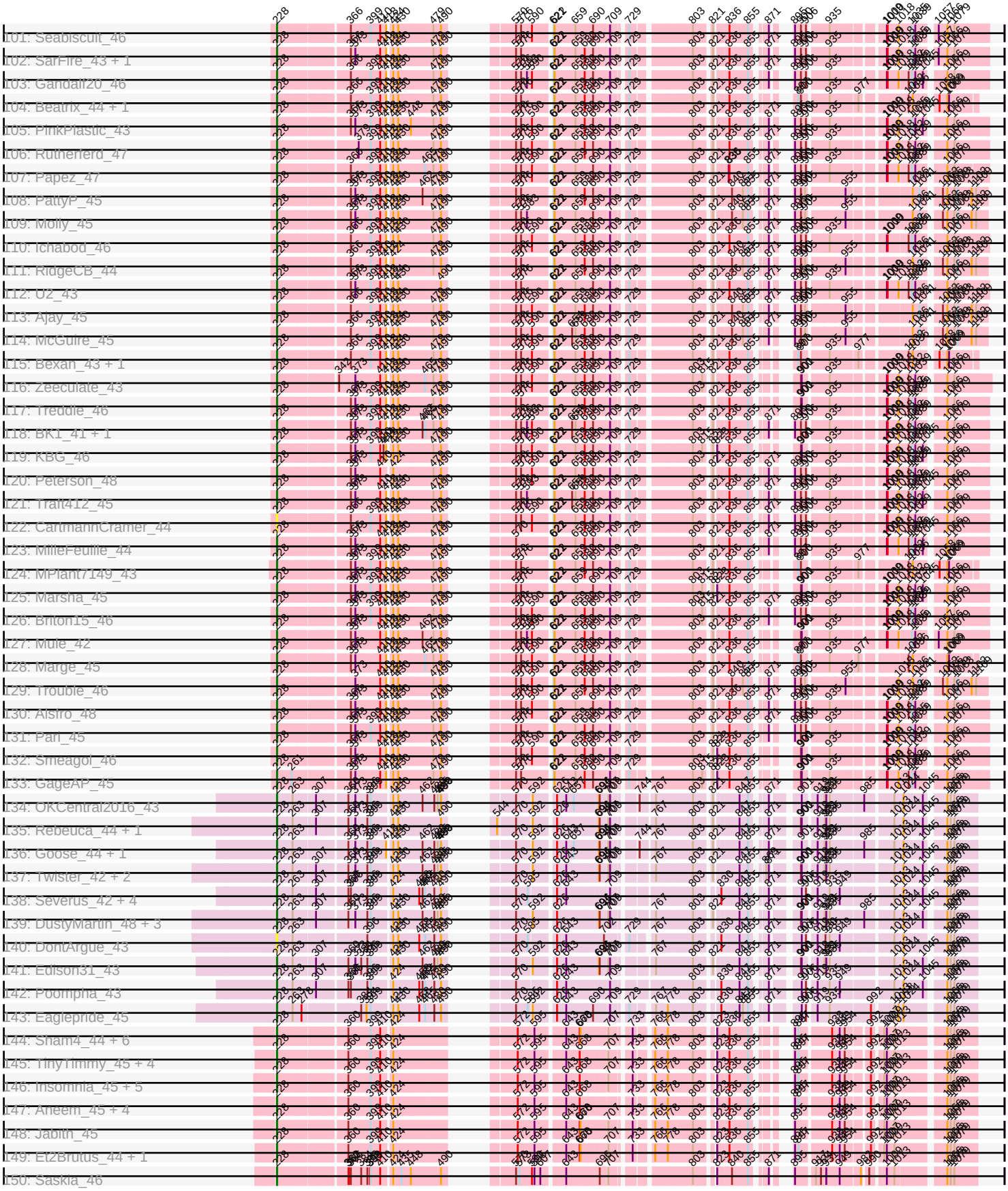
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1: LeeKay_49 + 2
2: Slagathor_47 + 2
3: Marchy_39 + 2
4: Blue_44
5: Burton_44 + 1
6: JuliaChild_45 + 3
7: Pippin_47 + 3
8: Parliament_44 + 2
9: LilBib_45
10: Turj99_42 + 1
11: Kugel_46
12: Marco3_47 + 2
13: Gachnar_45
14: GrecoEtereo_45 + 8
15: Carlyle_44
16: Jasper_46 + 1
17: Buttons_43
18: Licorice_48 + 2
19: MaryBeth_45 + 1
20: Rohr_45 + 2
21: Naira_46 + 1
22: Arlo_42 + 4
23: Sunshine924_45 + 3
24: Homines_37 + 3
25: Michley_44
26: Corvo_45 + 4
27: SpikeBT_45
28: Francis47_44 + 1
29: Pinto_45 + 1
30: Hermia_46 + 6
31: PascalRango_45 + 3
32: KSSJEB_43 + 1
33: Levia_42 + 1
34: Espresso_44 + 1
35: Bigfoot_41 + 2
36: Abrogate_440 + 1
37: DrFeelGood_43
38: MrGordo_44 + 4
39: Marcell_43
40: Rufus_45
41: JackSparrow_46
42: Barriga_45
43: Wilkins_44 + 3
44: IgnatiusPatJac_44 + 1
45: Niza_47 + 1
46: Pita2_47 + 1
47: Agallana_41 + 1
48: Bones_45 + 2
49: Teodoridan_43
50: ProMouse_45

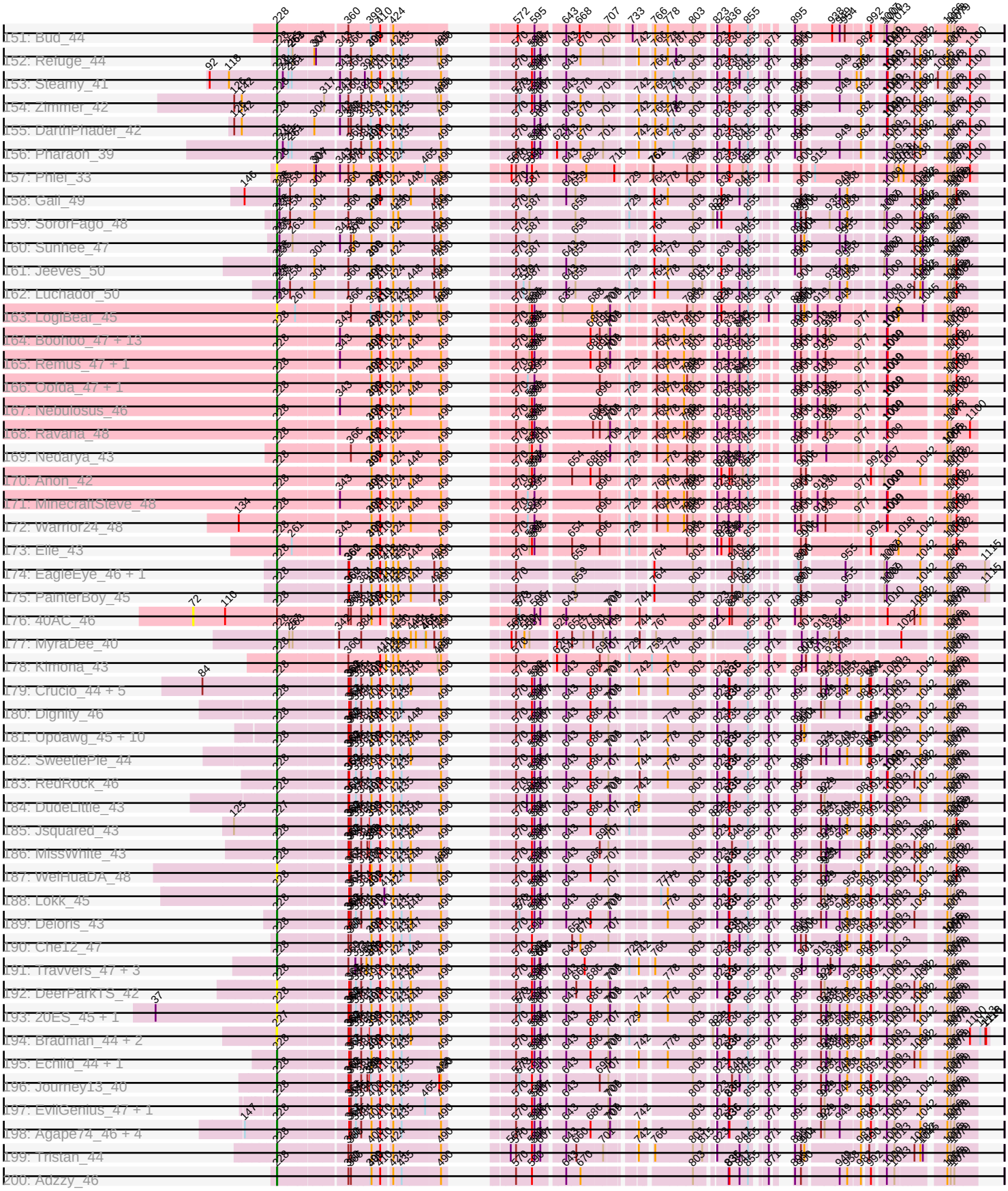
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51: McSinger_45 + 1
52: Bxb1_41
53: Bigchungi_43 + 1
54: Alvin_44
55: Sandaddy_44 + 1
56: Inyanga_42 + 1
57: Switzer_45 + 4
58: JC27_45 + 1
59: Bircsak_44 + 1
60: Raid_44
61: Dexes_45
62: Pelly_44
63: KyMonks1A_47 + 1
64: Lamina13_45 + 1
65: Monet_48
66: Sagelire_48
67: Euphoria_43 + 1
68: Violet_42
69: Atkinbua_46
70: Chanagan_42 + 1
71: Petp2012_45
72: QTRifleCrisis_45 + 3
73: Smairt_47
74: Dussy_46 + 3
75: Nerujay_46
76: DreamCatcher_47
77: PowerRanger_45
78: Aeneas_47
79: StewieG_42 + 3
80: Lockley_44 + 1
81: PhernisBueller_44 + 1
82: Doom_45
83: BigMau_45
84: BaconJack_48
85: Kykar_45
86: Magnar_44 + 1
87: Watermelon_46
88: Cueylyss_46
89: Bob3_42
90: Fenn_46
91: Zephyr_44
92: PhrostyMug_44
93: Nhonho_45 + 1
94: Whitspit_43
95: Squee_44 + 1
96: SkiPole_47 + 1
97: Ohno789_45
98: Lopton_45
99: Acme_47 + 1
100: NEHalo_43 + 1

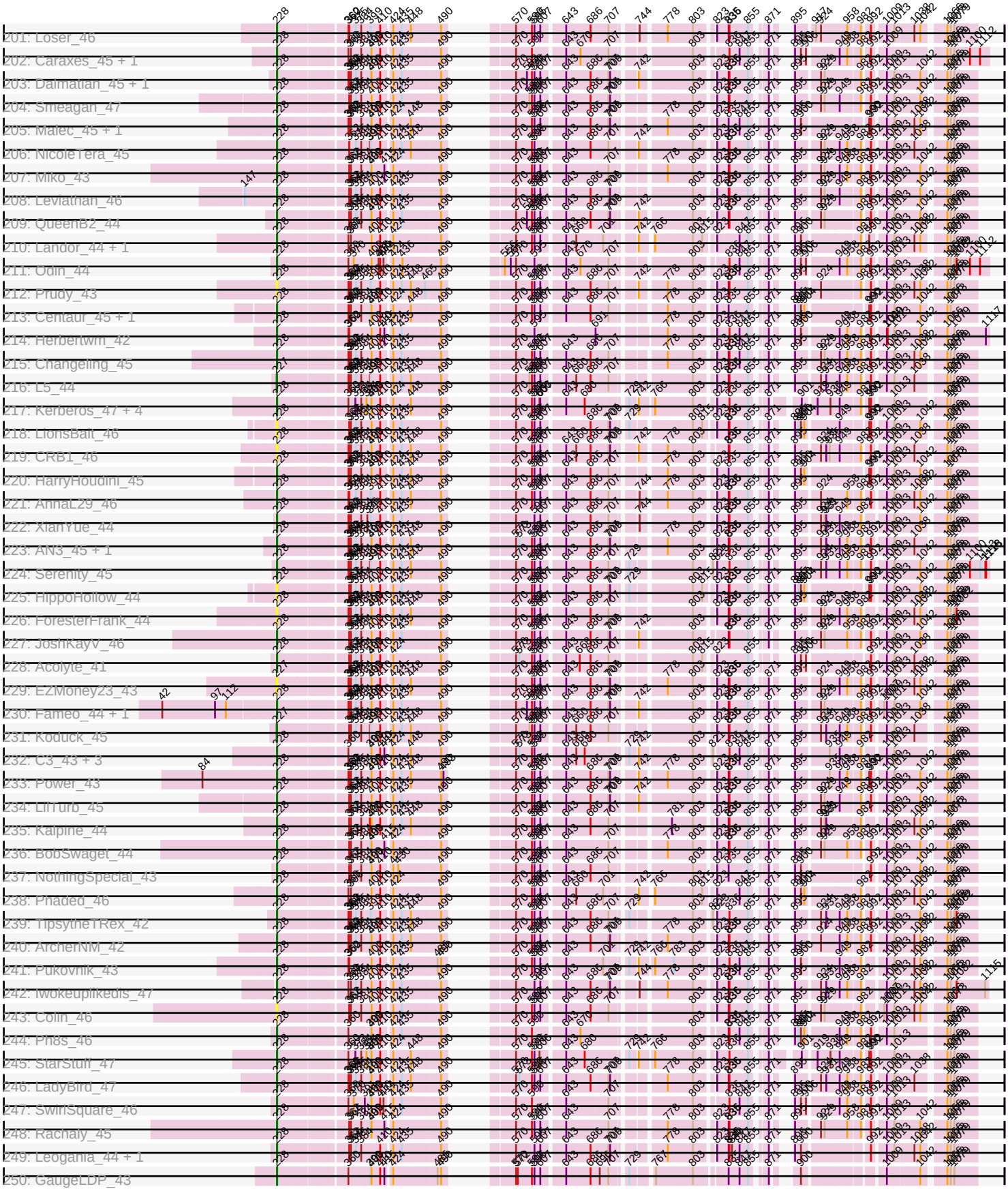
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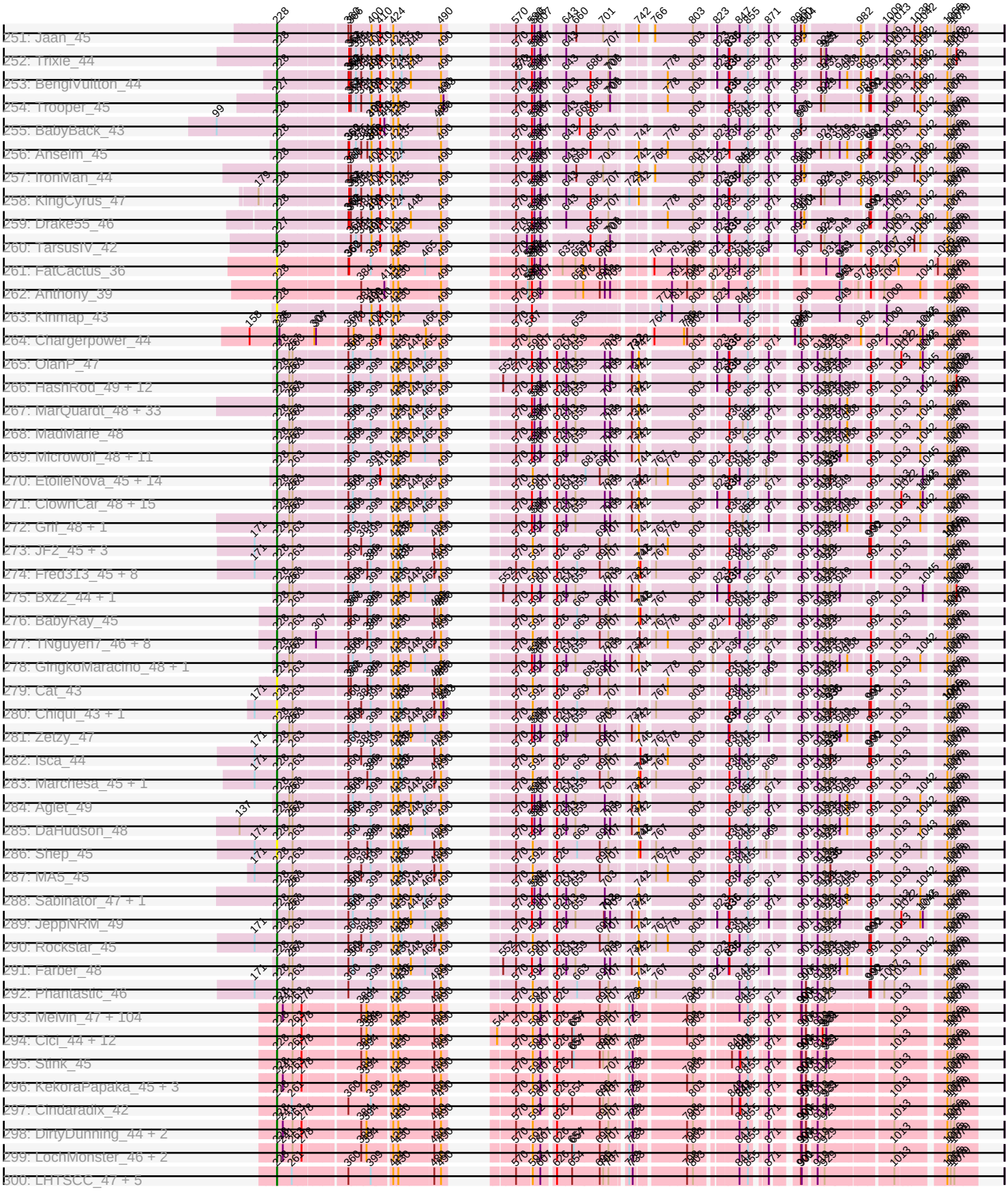
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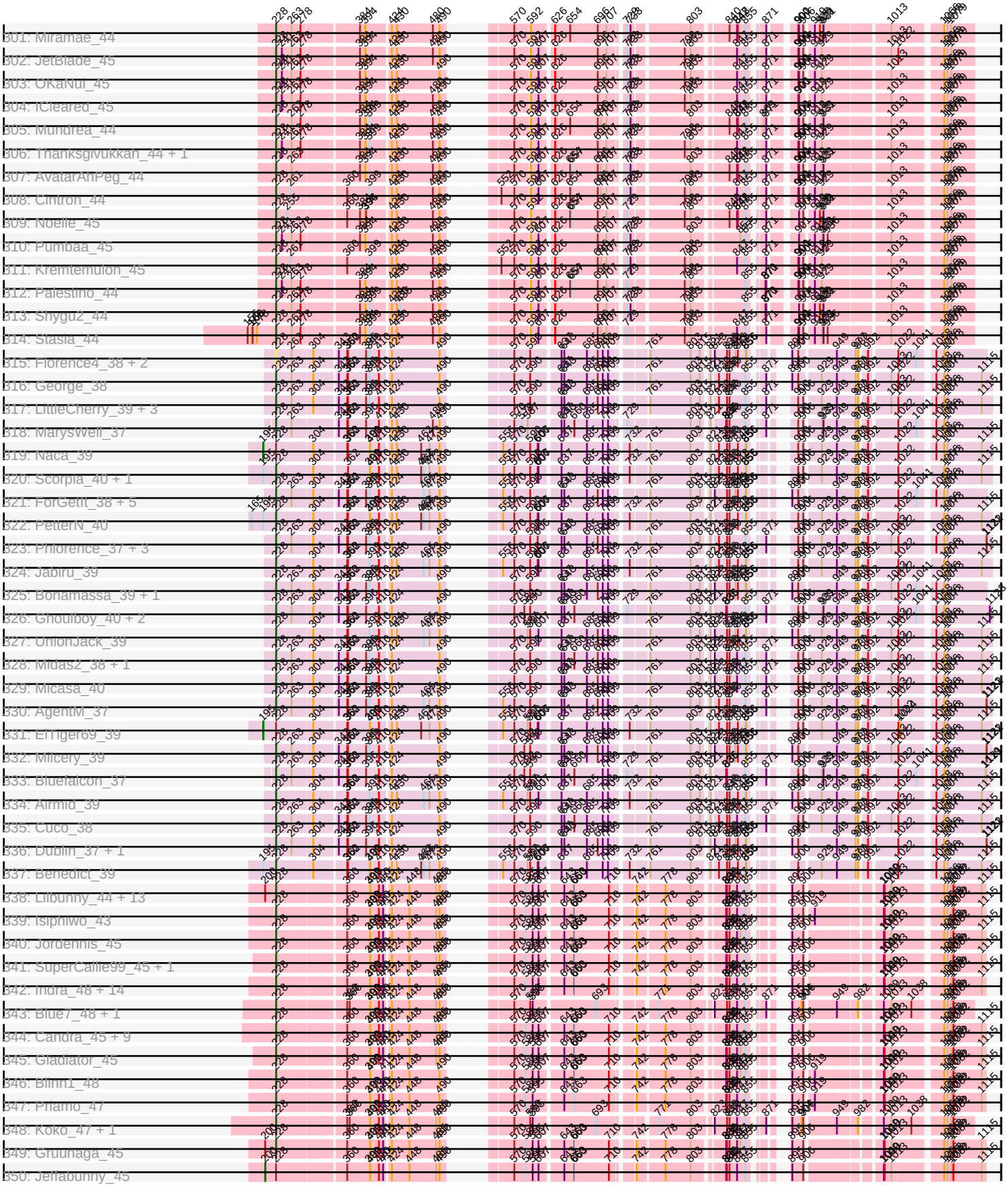
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201: Loser_46
202: Caraxes_45 + 1
203: Dalmatian_45 + 1
204: Smeagan_47
205: Malec_45 + 1
206: NicoleTera_45
207: Miko_43
208: Leviathan_46
209: QueenB2_44
210: Landor_44 + 1
211: Odin_44
212: Prudy_43
213: Centaur_45 + 1
214: Herbertwm_42
215: Changeling_45
216: L5_44
217: Kerberos_47 + 4
218: LionsBait_46
219: CRB1_46
220: HarryHoudini_45
221: AnnaL29_46
222: XianYue_44
223: AN3_45 + 1
224: Serenity_45
225: HippoHollow_44
226: ForesterFrank_44
227: JoshKayV_46
228: Acolyte_41
229: EZMoney23_43
230: Fameo_44 + 1
231: Koduck_45
232: C3_43 + 3
233: Power_43
234: LilTurb_45
235: Kalpine_44
236: BobSwaget_44
237: NothingSpecial_43
238: Phaded_46
239: TipsytheTRex_42
240: ArchenNM_42
241: Pukovnik_43
242: Iwokeuplikedis_47
243: Colin_46
244: Ph8s_46
245: StarStuff_47
246: LadyBird_47
247: SwimSquare_46
248: Rachaly_45
249: Leogania_44 + 1
250: GaugeLDP_43

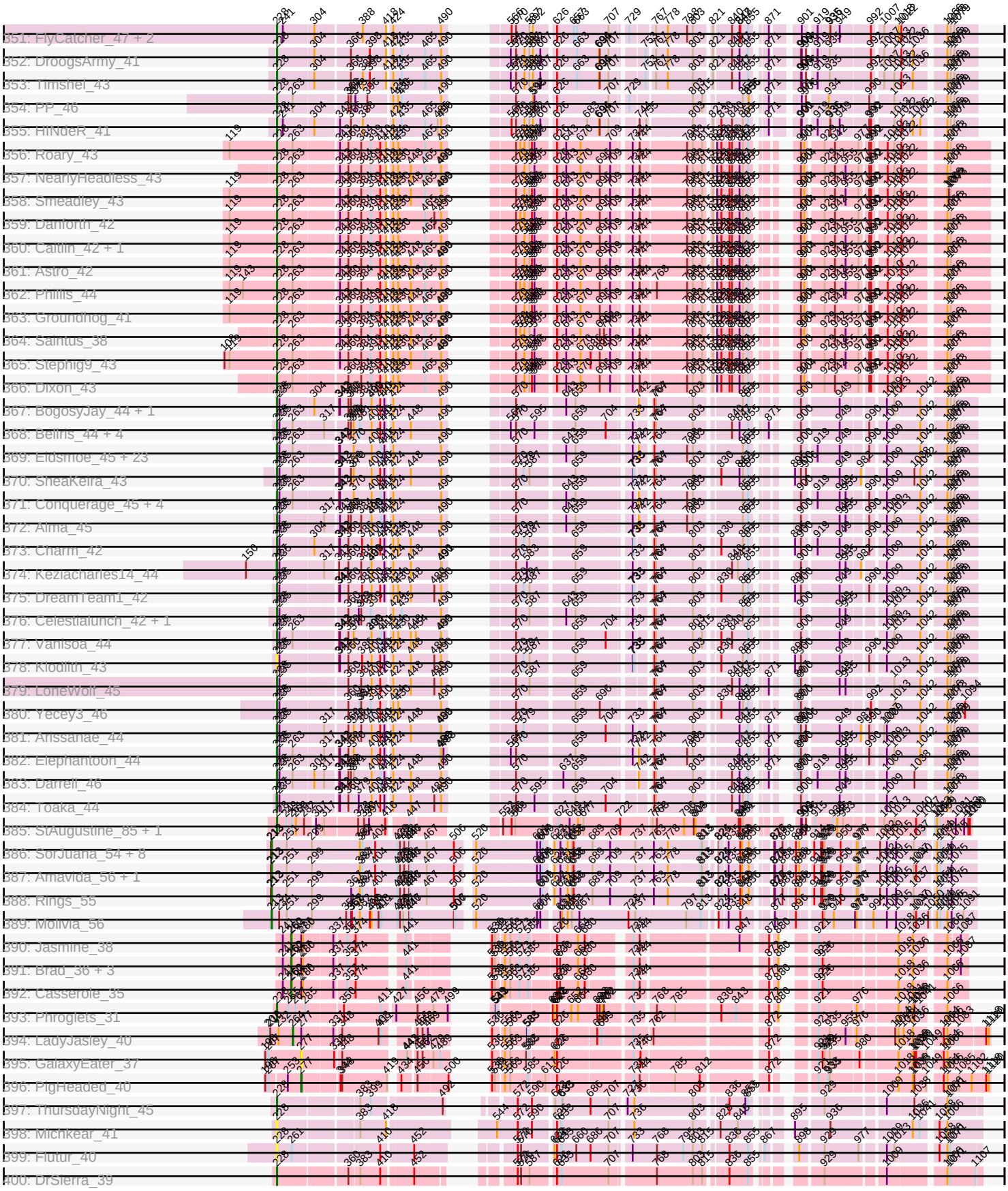
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251: Jaan_45
252: Trixie_44
253: BengiVuitton_44
254: Trooper_45
255: BabyBack_43
256: Anselm_45
257: IronMan_44
258: KingCyrus_47
259: Drake55_46
260: TarsusIV_42
261: FatCactus_36
262: Anthony_39
263: Kinmap_43
264: Chargerpower_44
265: OlanP_47
266: HashRod_49 + 12
267: MarQuardt_48 + 33
268: MadMarie_48
269: Microwolf_48 + 11
270: EtoileNova_45 + 14
271: ClownCar_48 + 15
272: Gnfi_48 + 1
273: JF2_45 + 3
274: Fred313_45 + 8
275: Bxz2_44 + 1
276: BabyRay_45
277: TNguyen7_46 + 8
278: GingkoMaracino_48 + 1
279: Cat_43
280: Chiqui_43 + 1
281: Zetzy_47
282: Isca_44
283: Marchesa_45 + 1
284: Aglet_49
285: DaHudson_48
286: Shep_45
287: MA5_45
288: Sabinator_47 + 1
289: JeppNRM_49
290: Rockstar_45
291: Farber_48
292: Phantastic_46
293: Melvin_47 + 104
294: Cici_44 + 12
295: Stink_45
296: KekoraPapaka_45 + 3
297: Cindaradix_42
298: DirtyDunning_44 + 2
299: LochMonster_46 + 2
300: LHTSCC_47 + 5

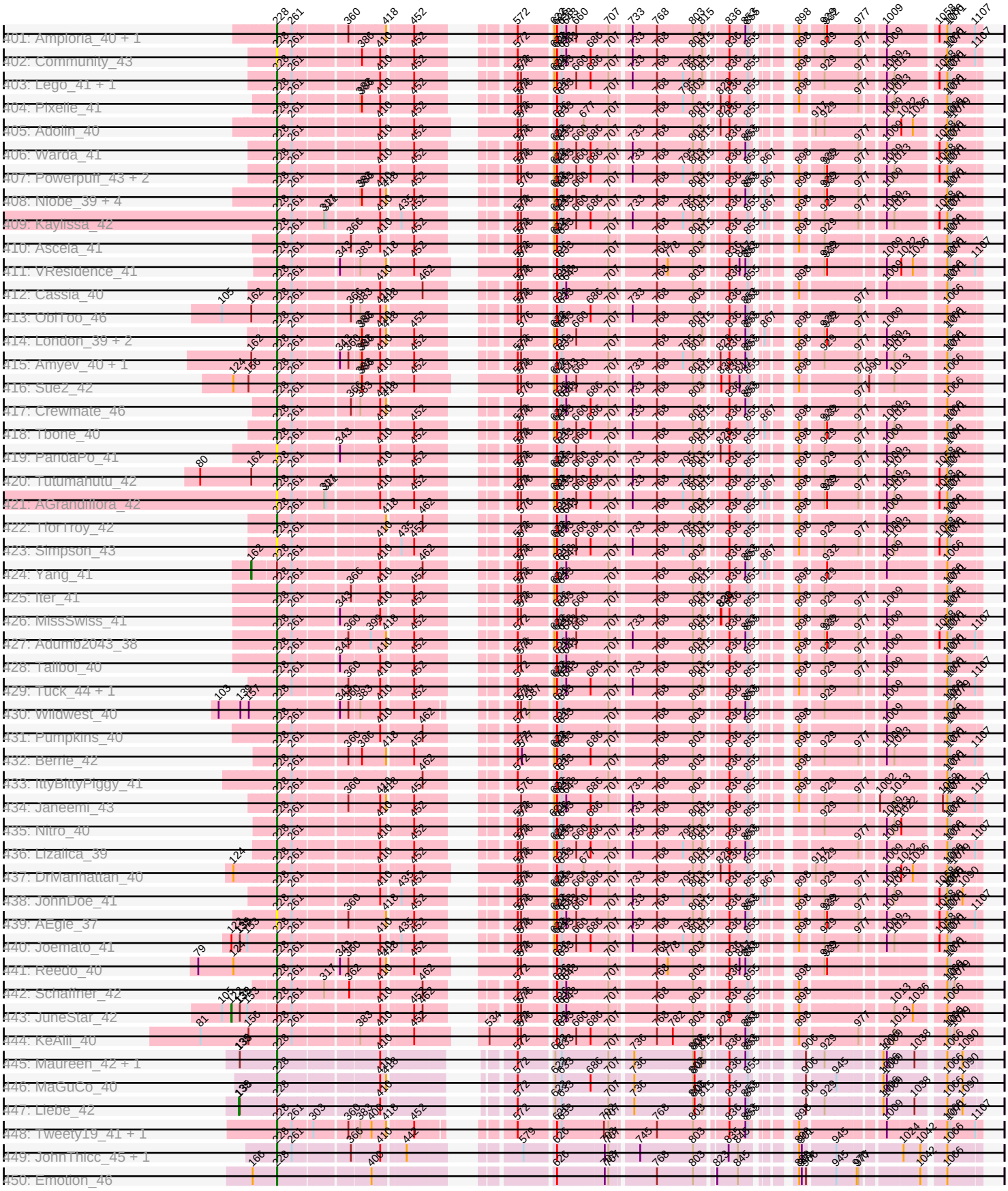
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301: Miramae_44
302: JetBlade_45
303: OKaNui_45
304: ICleared_45
305: Mundrea_44
306: Thanksgivukkah_44 + 1
307: AvatarAnPeg_44
308: Cintron_44
309: Noelle_45
310: Pumbaa_45
311: Kremtemulon_45
312: Palestino_44
313: Shygu2_44
314: Stasia_44
315: Florence4_38 + 2
316: George_38
317: LittleCherry_39 + 3
318: MarysWell_37
319: Naca_39
320: Scorpia_40 + 1
321: ForGetIt_38 + 5
322: PetterN_40
323: Phlorence_37 + 3
324: Jabiru_39
325: Bonamassa_39 + 1
326: Ghoulboy_40 + 2
327: UnionJack_39
328: Midas2_38 + 1
329: Micasa_40
330: AgentM_37
331: Erfiger69_39
332: Mlicery_39
333: Bluefalcon_37
334: Airmid_39
335: Cuco_38
336: Dublin_37 + 1
337: Benedict_39
338: Lilbunny_44 + 13
339: Isiphiwo_43
340: Jordennis_45
341: SuperCallie99_45 + 1
342: Indra_48 + 14
343: Blue7_48 + 1
344: Candra_45 + 9
345: Gladiator_45
346: Blinn1_48
347: Phamo_47
348: Koko_47 + 1
349: Gruunaga_45
350: Jerrabunny_45

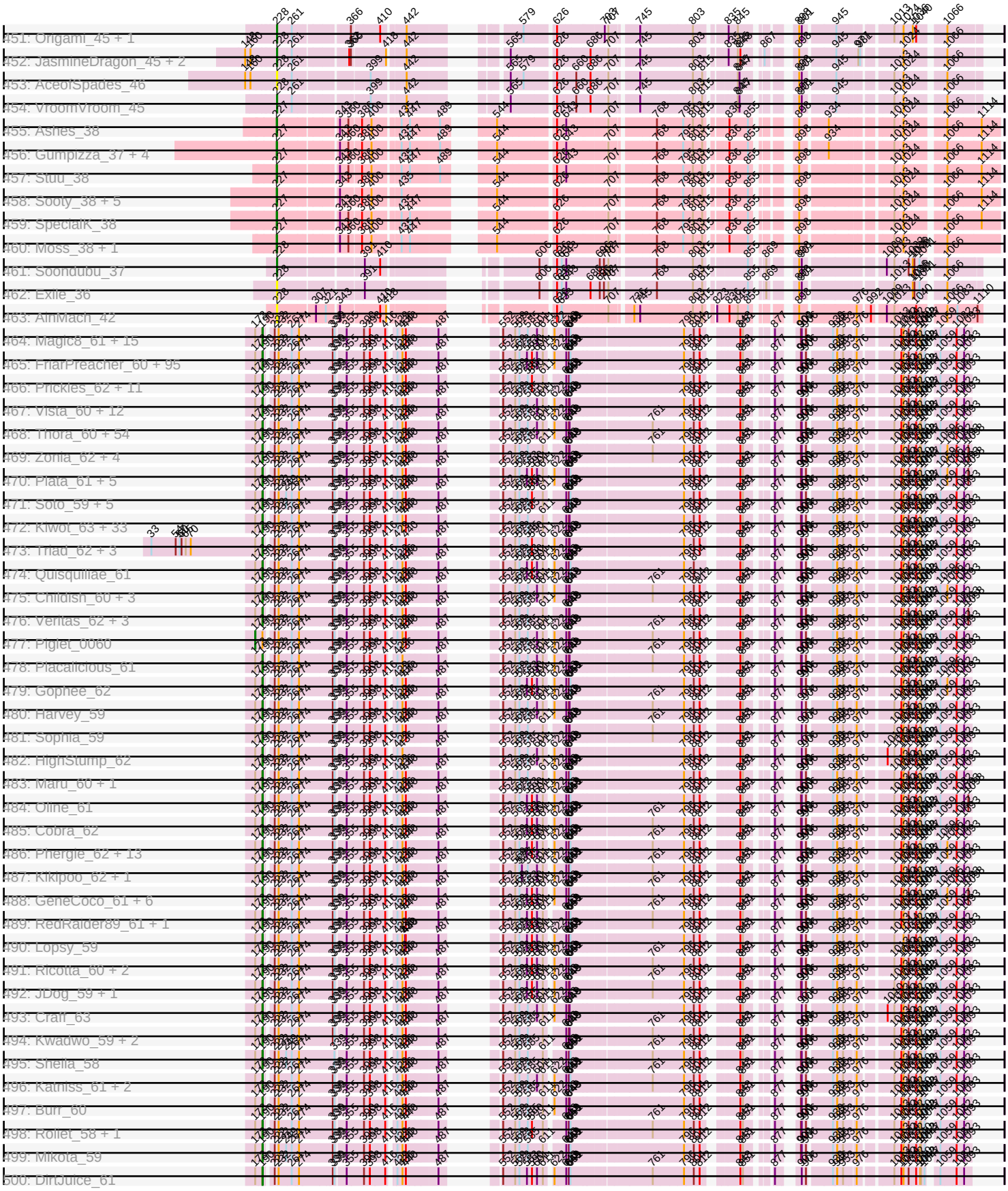
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351: FlyCatcher_47 + 2
352: DroogsArmy_41
353: Timshel_43
354: PP_46
355: HINdeR_41
356: Roary_43
357: NearlyHeadless_43
358: Smeadley_43
359: Danforth_42
360: Caitlin_42 + 1
361: Astro_42
362: Phillis_44
363: Groundhog_41
364: Saintus_38
365: Stephig9_43
366: Dixon_43
367: BogosyJay_44 + 1
368: Bellms_44 + 4
369: Eldsmoe_45 + 23
370: SneaKeira_43
371: Conquerage_45 + 4
372: Alma_45
373: Charm_42
374: KeziaCharles14_44
375: DreamTeam1_42
376: Celestialunch_42 + 1
377: Vanisoa_44
378: Kloolim_43
379: LoneWolf_45
380: Yecey3_46
381: Arissanae_44
382: Elephantoon_44
383: Darrell_46
384: Toaka_44
385: StAugustine_85 + 1
386: SorJuana_54 + 8
387: Amavida_56 + 1
388: Rings_55
389: Molivia_56
390: Jasmine_38
391: Brad_36 + 3
392: Casserole_35
393: Phroglets_31
394: LadyJasley_40
395: GalaxyEater_37
396: PigHeaded_40
397: ThursdayNight_45
398: Michkear_41
399: Flutur_40
400: DrSierra_39

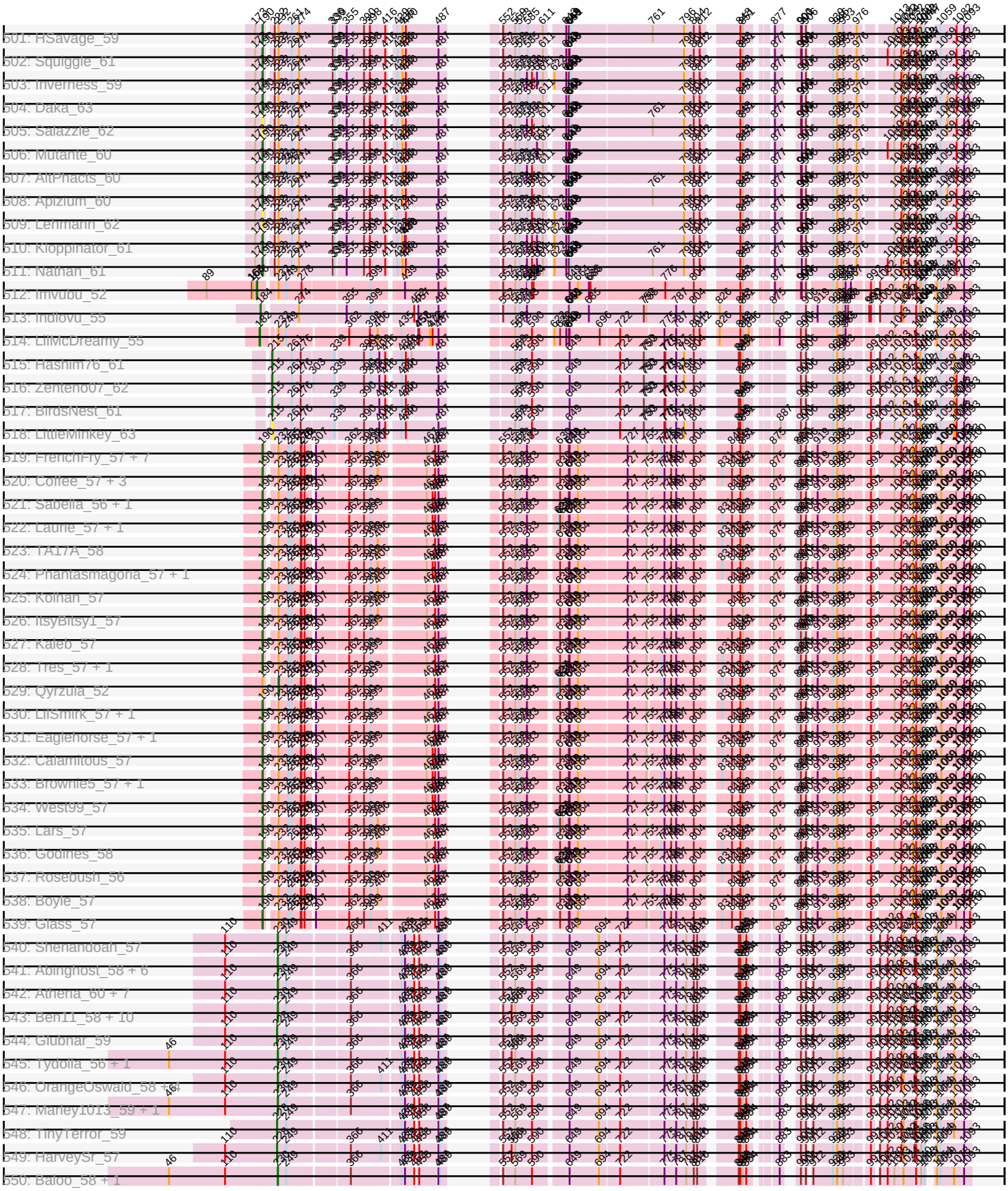
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401: Amploria_40 + 1
402: Community_43
403: Lego_41 + 1
404: Pixelle_41
405: Addim_40
406: Warda_41
407: Powerpuff_43 + 2
408: Niobe_39 + 4
409: Kaylissa_42
410: Ascela_41
411: VResidence_41
412: Cassia_40
413: ObiTroo_46
414: London_39 + 2
415: Amyev_40 + 1
416: Sue2_42
417: Crewmate_46
418: Toone_40
419: PandaPo_41
420: Tutumahutu_42
421: AGrandiflora_42
422: ThorTroy_42
423: Simpson_43
424: Yang_41
425: Iter_41
426: MissSwiss_41
427: Adumb2043_38
428: Tallboi_40
429: Tuck_44 + 1
430: Wildwest_40
431: Pumpkins_40
432: Berrie_42
433: IttyBittyPiggy_41
434: Janeemi_43
435: Nitro_40
436: Lizalica_39
437: DrManhattan_40
438: JohnDoe_41
439: AEgle_37
440: Joemato_41
441: Reedo_40
442: Schaffner_42
443: JuneStar_42
444: KeAlli_40
445: Maureen_42 + 1
446: MaGuCo_40
447: Liebe_42
448: Tweety19_41 + 1
449: JohnThicc_45 + 1
450: Emotion_46

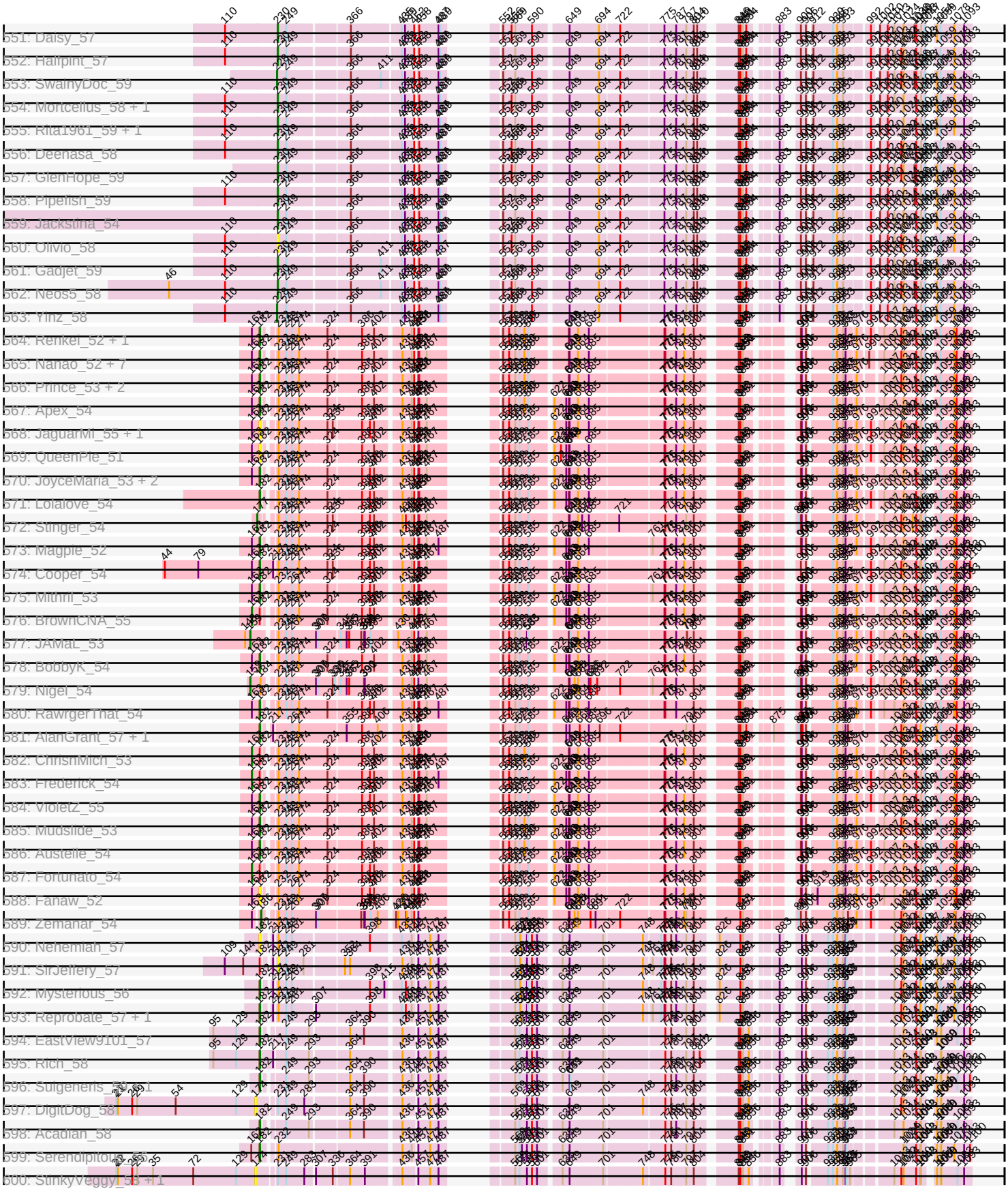
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451: Origami_45 + 1
452: JasmineDragon_45 + 2
453: AceofSpades_46
454: VroomVroom_45
455: Ashes_38
456: Gumpizza_37 + 4
457: Stuu_38
458: Sooty_38 + 5
459: SpecialK_38
460: Moss_38 + 1
461: Soondubu_37
462: Exile_36
463: AimMach_42
464: Magic8_61 + 15
465: FriarPreacher_60 + 95
466: Prickles_62 + 11
467: Vista_60 + 12
468: Thora_60 + 54
469: Zonia_62 + 4
470: Plata_61 + 5
471: Soto_59 + 5
472: Kiwot_63 + 33
473: Thad_62 + 3
474: Quisquiliae_61
475: Childish_60 + 3
476: Veritas_62 + 3
477: Piglet_0060
478: Placalicious_61
479: Gophee_62
480: Harvey_59
481: Sophia_59
482: HighStump_62
483: Maru_60 + 1
484: Oline_61
485: Cobra_62
486: Phergie_62 + 13
487: Kikipoo_62 + 1
488: GeneCoco_61 + 6
489: RedRaider89_61 + 1
490: Lopsy_59
491: Ricotta_60 + 2
492: JDog_59 + 1
493: Crain_63
494: Kwadwo_59 + 2
495: Sheila_58
496: Katniss_61 + 2
497: Burr_60
498: Rollet_58 + 1
499: Mikota_59
500: DirtJuice_61

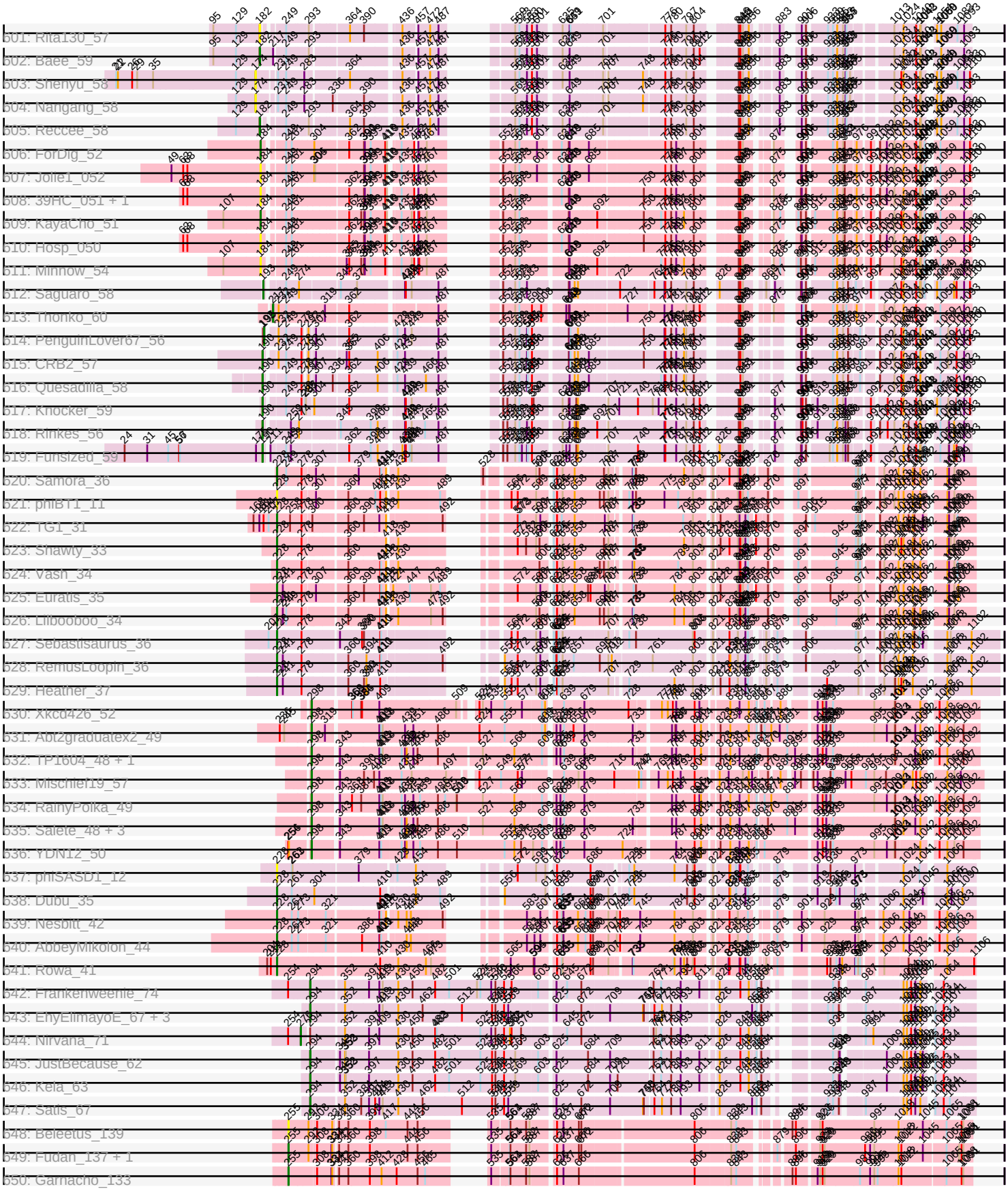
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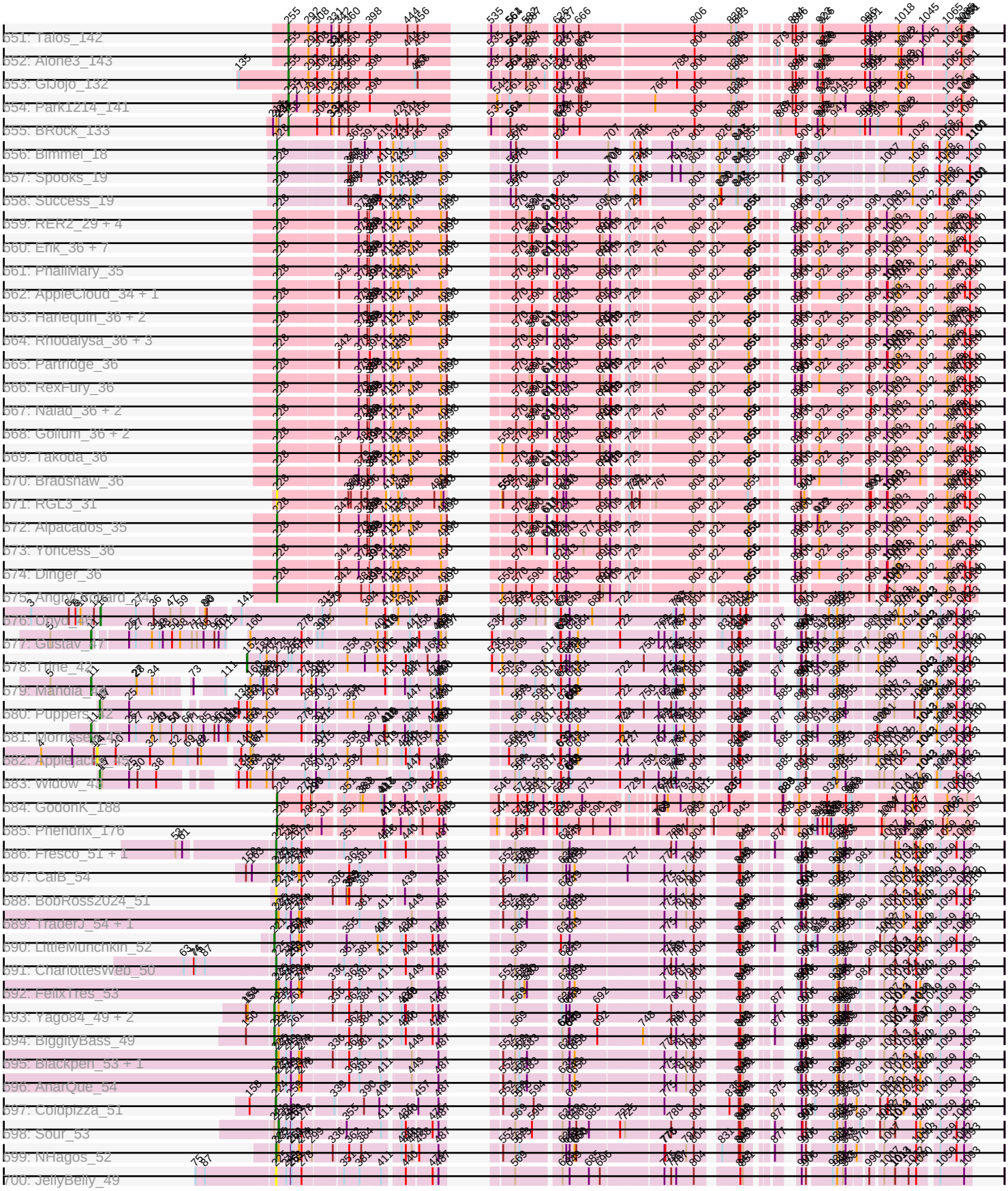
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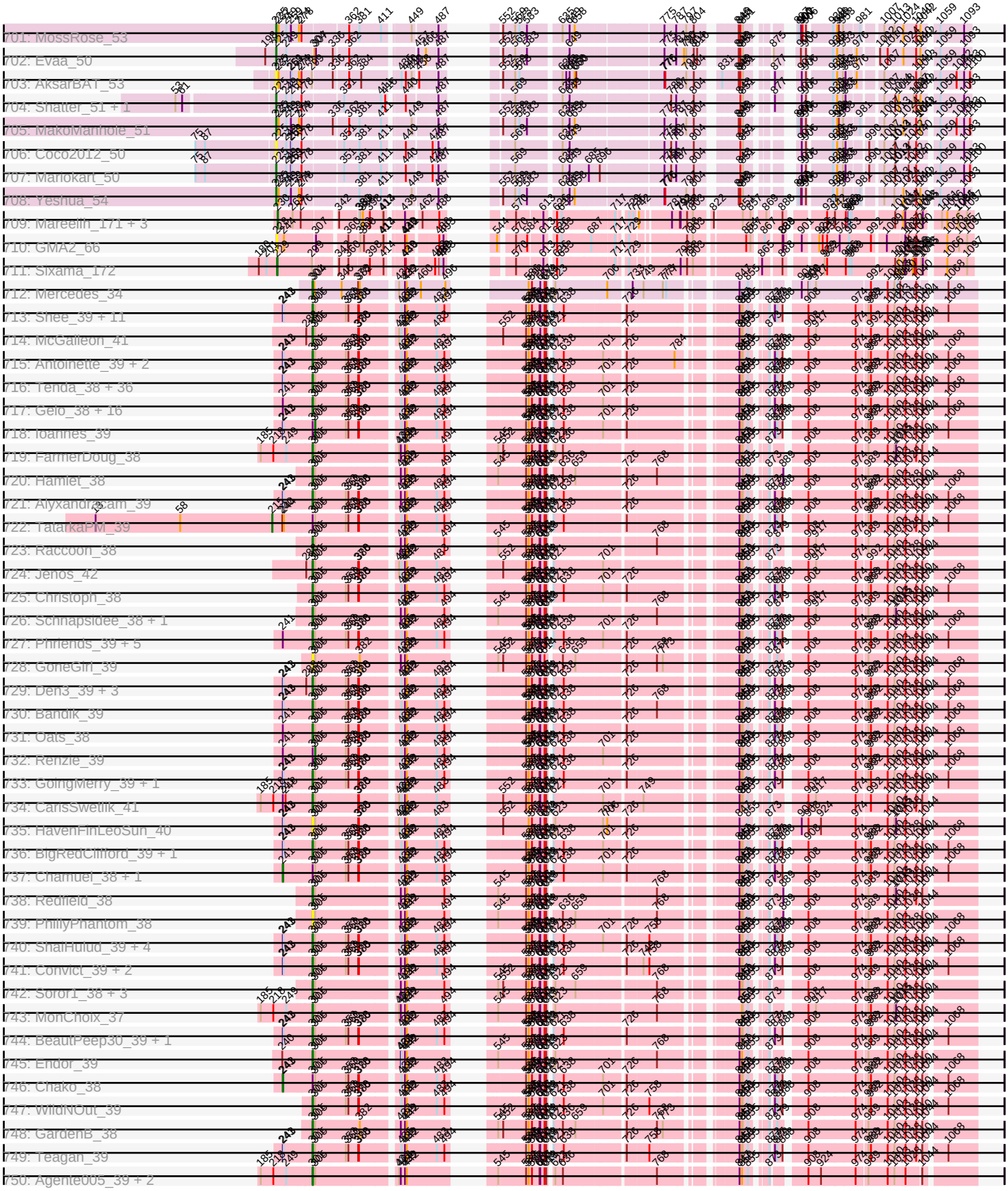
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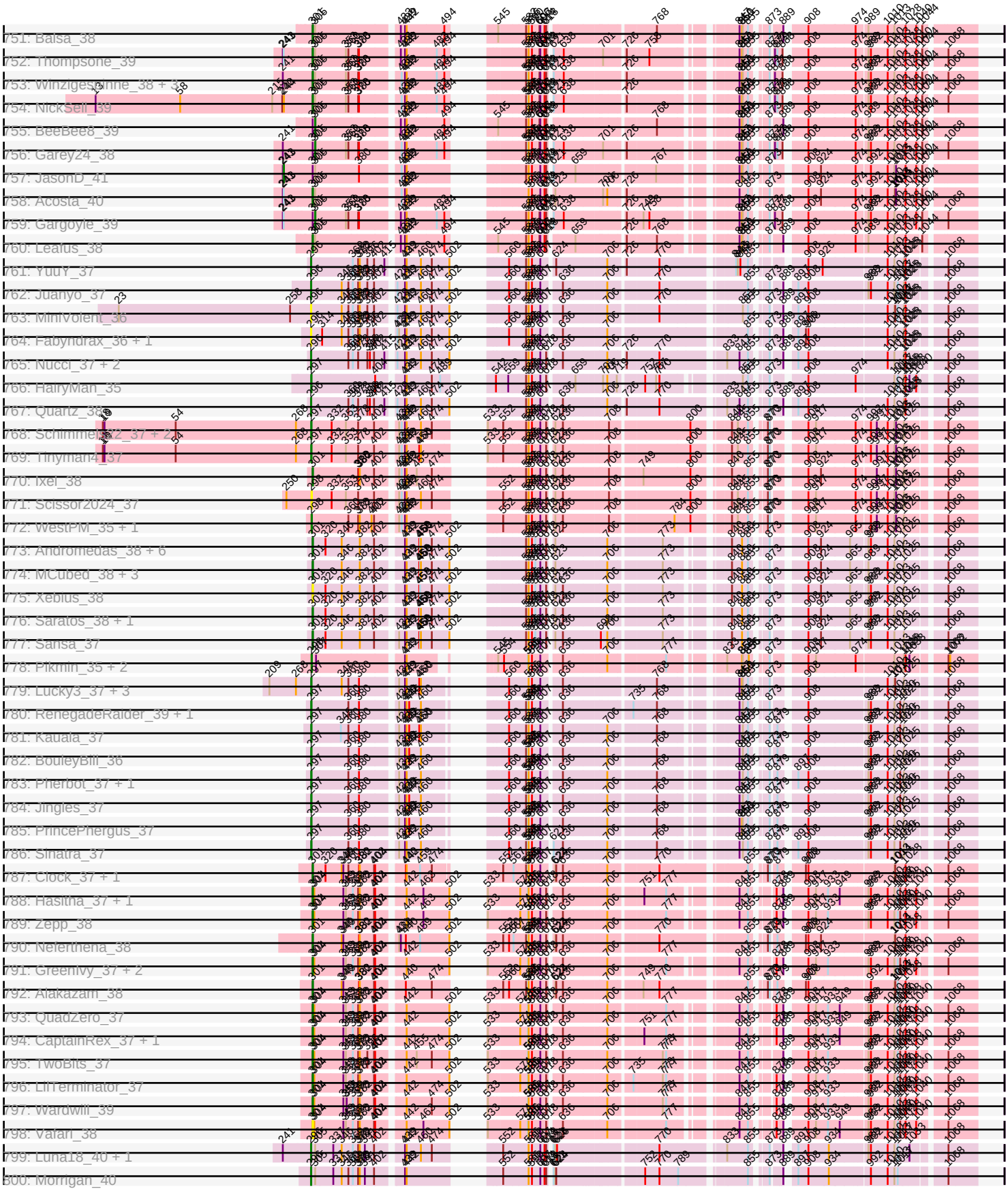
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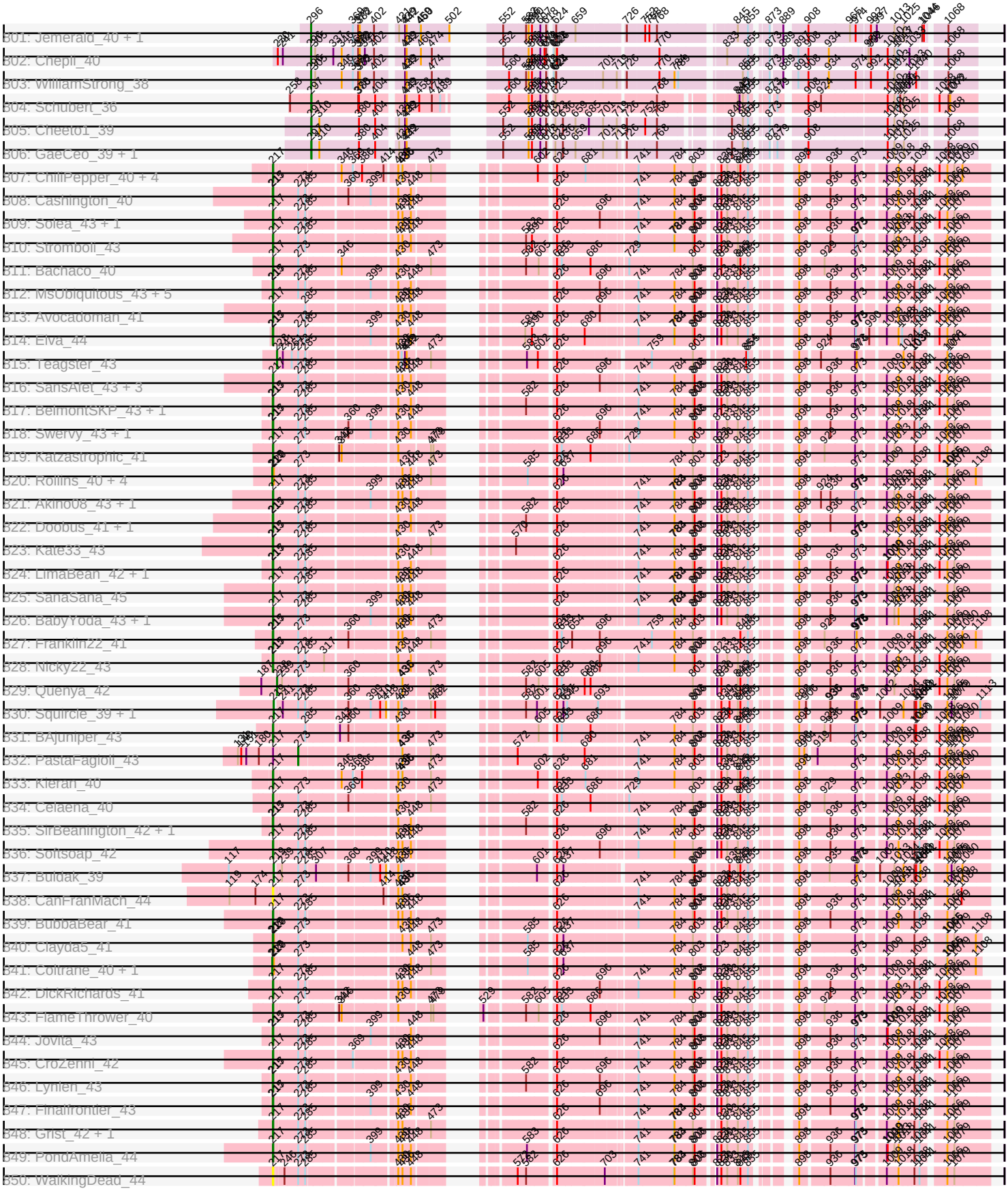
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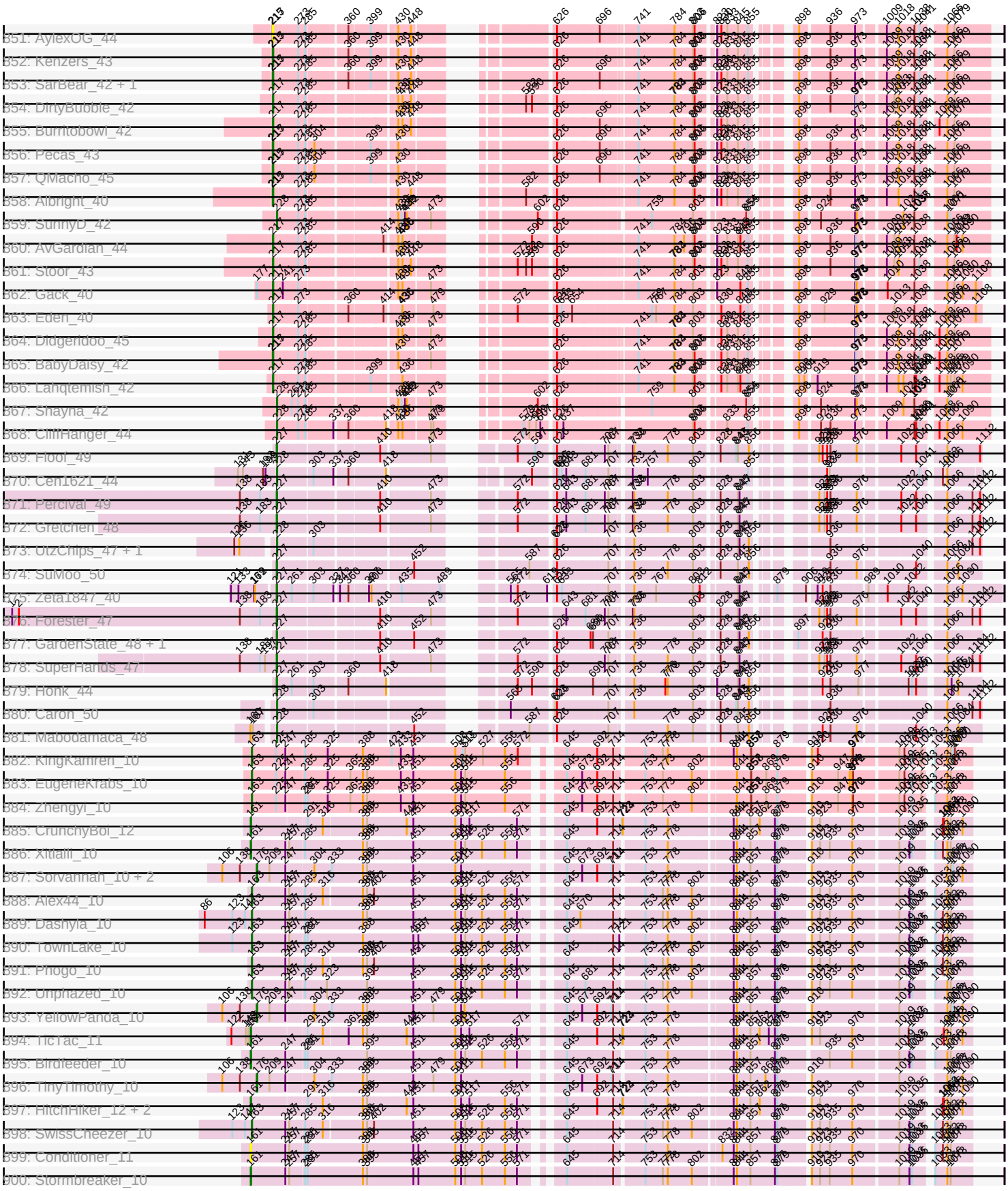
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751: Balsa_38
752: Thompsone_39
753: Winzigesonne_38 + 3
754: NickSell_39
755: BeeBee8_39
756: Garey24_38
757: JasonD_41
758: Acosta_40
759: Gargoyle_39
760: Leafus_38
761: YuuY_37
762: Juanyo_37
763: MiniViolent_36
764: Fabyndrax_36 + 1
765: Nucci_37 + 2
766: HairyMan_35
767: Quartz_38
768: Schimmel22_37 + 2
769: Tinyman4_37
770: Ixel_38
771: Scissor2024_37
772: WestPM_35 + 1
773: Andromedas_38 + 6
774: MCubed_38 + 3
775: Xebius_38
776: Saratos_38 + 1
777: Sansa_37
778: Pikmin_35 + 2
779: Lucky3_37 + 3
780: RenegadeRaider_39 + 1
781: Kauala_37
782: BouleyBill_36
783: Pherbot_37 + 1
784: Jingles_37
785: PrincePhergus_37
786: Sinatra_37
787: Clock_37 + 1
788: Hasitha_37 + 1
789: Zepp_38
790: Neferthena_38
791: Greenivy_37 + 2
792: Alakazam_38
793: QuadZero_37
794: CaptainRex_37 + 1
795: TwoBits_37
796: LilTerminator_37
797: Wardwill_39
798: Vafari_38
799: Luna18_40 + 1
800: Morrigan_40

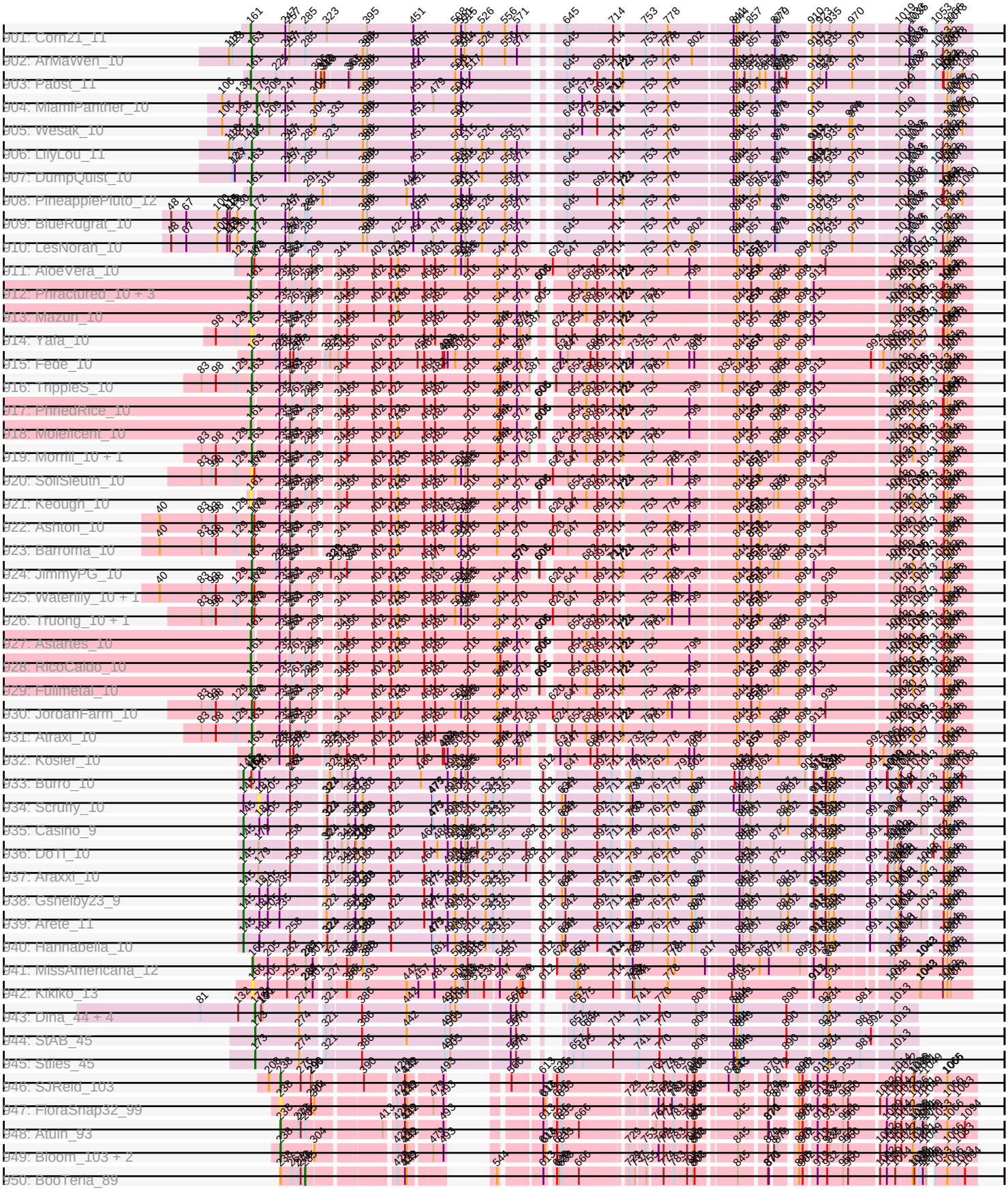
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B01: Jemerald_40 + 1
B02: Chepil_40
B03: WilliamStrong_38
B04: Schubert_36
B05: Cheeto1_39
B06: GaeCeo_39 + 1
B07: ChiliPepper_40 + 4
B08: Cashington_40
B09: Solea_43 + 1
B10: Stromboli_43
B11: Bachaco_40
B12: MsObliquitous_43 + 5
B13: Avocadoman_41
B14: Elva_44
B15: Teagster_43
B16: SansAlet_43 + 3
B17: BelmontSKP_43 + 1
B18: Swervy_43 + 1
B19: Katzastrophic_41
B20: Rollins_40 + 4
B21: Akino08_43 + 1
B22: Doobus_41 + 1
B23: Kate33_43
B24: LimaBean_42 + 1
B25: SanaSana_45
B26: BabyYoda_43 + 1
B27: Franklin22_41
B28: Nicky22_43
B29: Quenya_42
B30: Squircle_39 + 1
B31: BAjuniper_43
B32: PastaFagioli_43
B33: Kieran_40
B34: Celaena_40
B35: SirBeanington_42 + 1
B36: Softsoap_42
B37: Buldak_39
B38: CanFranMach_44
B39: BubbaBear_41
B40: Clayda5_41
B41: Coltrane_40 + 1
B42: DickRichards_41
B43: FlameThrower_40
B44: Jovita_43
B45: CroZenni_42
B46: Lynlen_43
B47: FinalFrontier_43
B48: Grist_42 + 1
B49: PondAmelia_44
B50: WalkingDead_44

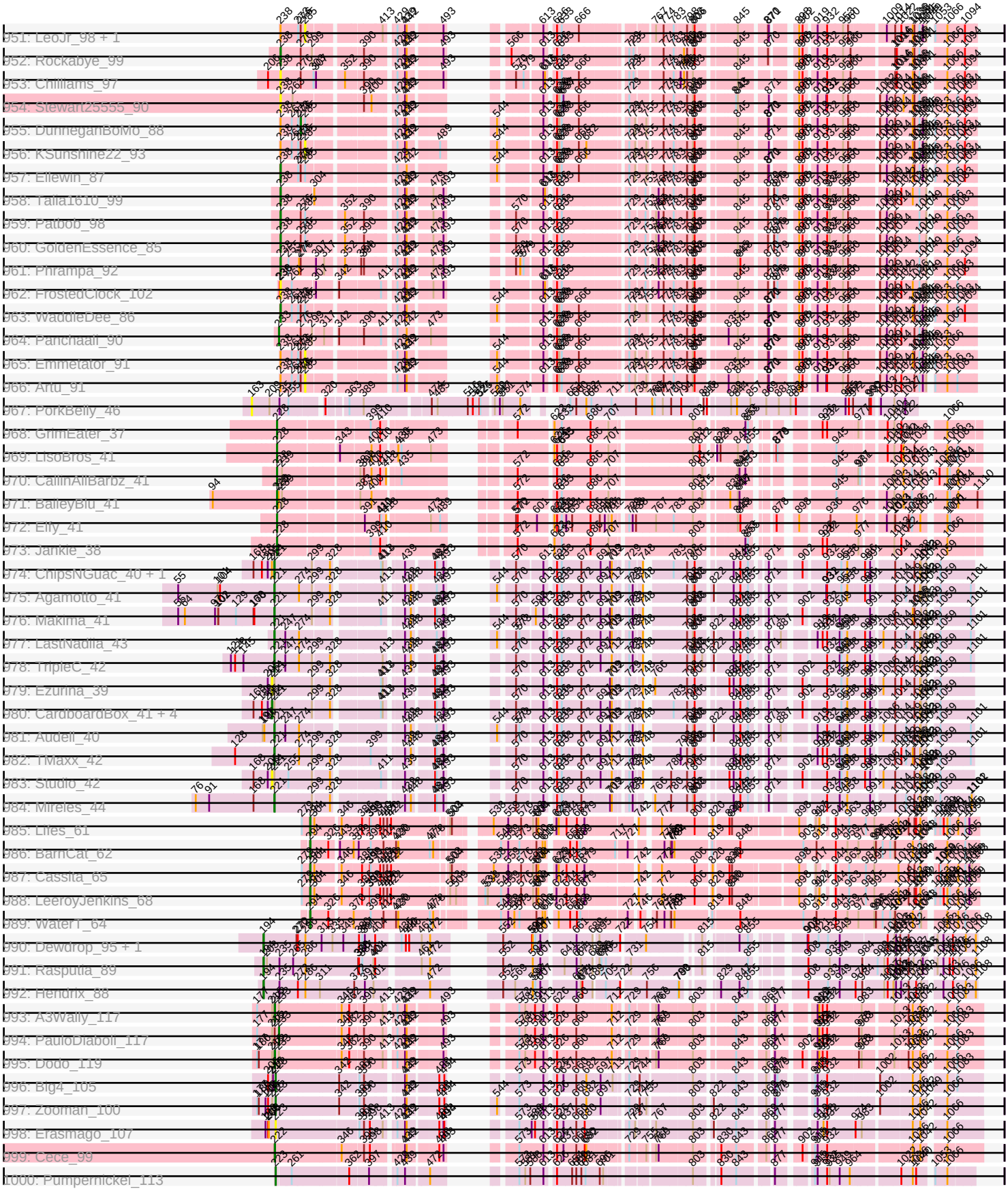
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351: AylexOG_44
352: Kenzers_43
353: SarBear_42 + 1
354: DirtyBubble_42
355: Burntobowl_42
356: Pecas_43
357: QMacho_45
358: Albright_40
359: SunnyD_42
360: AvGardian_44
361: Stoor_43
362: Gack_40
363: Eden_40
364: Didgeridoo_45
365: BabyDaisy_42
366: Lanqtemish_42
367: Shayna_42
368: CliffHanger_44
369: Hoof_49
370: Cen1621_44
371: Percival_49
372: Gretchen_48
373: OtzChips_47 + 1
374: SulMoo_50
375: Zeta1847_40
376: Forester_47
377: GardenState_48 + 1
378: SuperHands_47
379: Honk_44
380: Caron_50
381: Mabodamaca_48
382: KingKamren_10
383: EugeneKrabs_10
384: Zhengyi_10
385: CrunchyBoi_12
386: Xiliam_10
387: Sorvannah_10 + 2
388: Alex44_10
389: Dashyla_10
390: TownLake_10
391: Phogo_10
392: Unphazed_10
393: YellowPanda_10
394: TicTac_11
395: Birdfeeder_10
396: TinyTimothy_10
397: HitchHiker_12 + 2
398: SwissCheezer_10
399: Conditioner_11
400: Stormbreaker_10

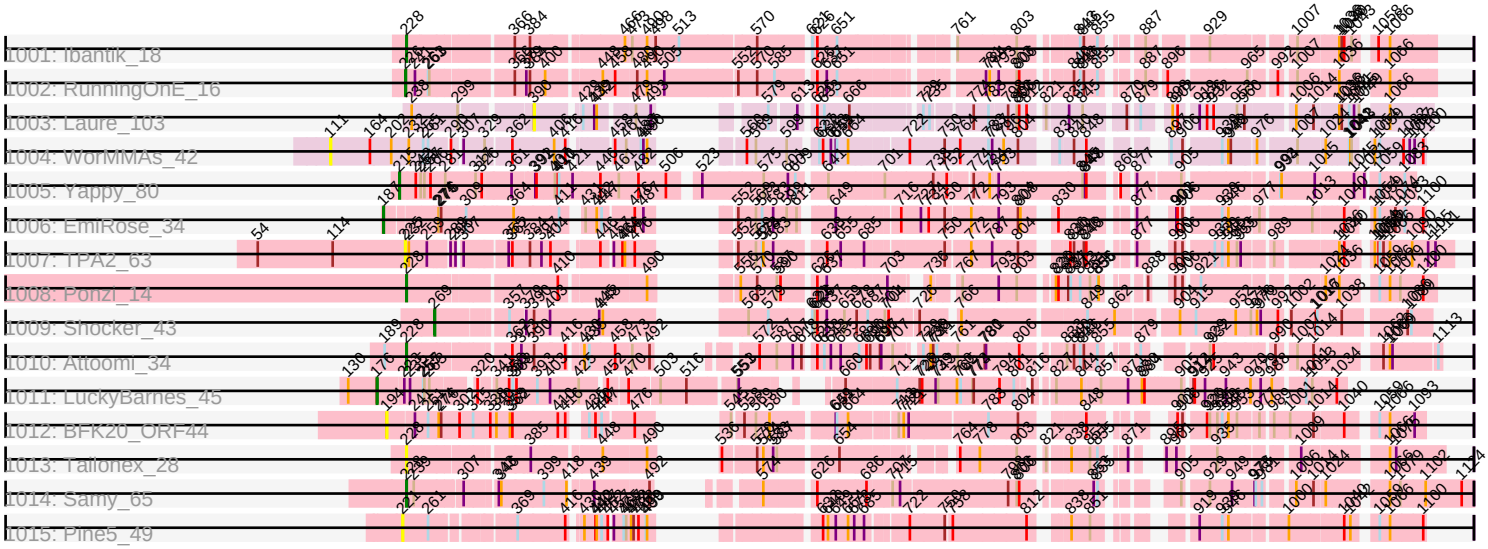
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Pham 328472


951: LeoJr_98 + 1
952: Rockabye_99
953: Chilliams_97
954: Stewart25555_90
955: DunneganBoMo_88
956: KSunshine22_93
957: Ellewin_87
958: Talia1610_99
959: Patbob_98
960: GoldenEssence_85
961: Phrampa_92
962: FrostedClock_102
963: WaddleDee_86
964: Panchaali_90
965: Emmetator_91
966: Artu_91
967: PorkBelly_46
968: GrimEater_37
969: LisoBros_41
970: CallinAllBarbz_41
971: BalleyBlu_41
972: Elly_41
973: Jankie_38
974: ChipsNGuac_40 + 1
975: Agamotto_41
976: Makima_41
977: LastNadila_43
978: TripleC_42
979: Ezurina_39
980: CardboardBox_41 + 4
981: Audell_40
982: TMaxx_42
983: Studio_42
984: Mireles_44
985: Lilies_61
986: BarnCat_62
987: Cassita_65
988: LeeroyJenkins_68
989: WaterT_64
990: Dewdrop_95 + 1
991: Rasputia_89
992: Hendrix_88
993: A3Wally_117
994: PauloDiaboli_117
995: Dodo_119
996: Big4_105
997: Zooman_100
998: Erasmago_107
999: Cece_99
1000: Pumpernickel_113

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1001: Ibantik_18
1002: RunningOnE_16
1003: Laure_103
1004: WorMMAs_42
1005: Yappy_80
1006: EmiRose_34
1007: TPA2_63
1008: Ponzi_14
1009: Shocker_43
1010: Attoomi_34
1011: LuckyBarnes_45
1012: BFK20_ORF44
1013: Tallonex_28
1014: Samy_65
1015: Pine5_49

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 328472 Report

This analysis was run 09/05/26 on database version 662.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 328472 has 2144 members, 231 are drafts.

Phages represented in each track:
• Track 1 : ILeeKay_49, Fushigi_43, Sumter_42
• Track 2 : Slagathor_47, Arcanine_46, Ringer_46
• Track 3 : Marchy_39, Adahisdi_44, Payneful_44
• Track 4 : Blue_44
• Track 5 : Burton_44, Museum_45
• Track 6 : JuliaChild_45, Swole_45, TwoPeat_45, Tote_40
• Track 7 : Pippin_47, Greg_47, Fajezeel_47, Ciao_45
• Track 8 : Parliament_44, Manatee_45, BarrowTuph_45
• Track 9 : LilBib_45
• Track 10 : Turj99_42, Magnito_42
• Track 11 : Kugel_46
• Track 12 : Marco3_47, Paphu_43, Oogway_42
• Track 13 : Gachnar_45
• Track 14 : GrecoEtereo_45, GMonster_42, HanShotFirst_43, Big3_43, CactusRose_42, Paraselene_43, HarryOW_43, Tripl3t_45, Gwendoluna_47
• Track 15 : Carlyle_44
• Track 16 : Jasper_46, Dreamboat_46
• Track 17 : Buttons_43
• Track 18 : Licorice_48, BigPaolini_45, TheloniousMonk_46
• Track 19 : MaryBeth_45, MetalQZJ_44
• Track 20 : Rohr_45, Jerm2_45, HermioneGrange_44
• Track 21 : Naira_46, Puppet_46
• Track 22 : Arlo_42, Hope4ever_46, Kanely_45, Rubeus_45, Altman_46
• Track 23 : Sunshine924_45, BPBiebs31_45, Kenmech_48, Blesser_43
• Track 24 : Homines_37, ShortQueendom_40, Makemake_44, Wheeler_45
• Track 25 : Michley_44
• Track 26 : Corvo_45, SwissCheese_46, Forsytheast_44, Bruns_43, Moose_44
• Track 27 : SpikeBT_45
• Track 28 : Francis47_44, PacerPaul_45
• Track 29 : Pinto_45, Petruchio_45
• Track 30 : Hermia_46, GroundGoblin_45, Aldrich_45, DirtDevil_46, Noxious_46, KikiBouba_46, CatBus_45
• Track 31 : PascalRango_45, Jorgensen_45, Norz_45, Edtherson_45

• Track 32 : KSSJEB_43, Target_45
• Track 33 : Levia_42, PhineBark_44
• Track 34 : Espresso_44, EnzoK_43
• Track 35 : Bigfoot_41, Maroc7_43, Fascinus_41
• Track 36 : Abrogate_440, Perseus_45
• Track 37 : DrFeelGood_43
• Track 38 : MrGordo_44, Gyzlar_41, Anglerfish_45, Dulcie_45, Crispicous1_43
• Track 39 : Marcell_43
• Track 40 : Rufus_45
• Track 41 : JackSparrow_46
• Track 42 : Barriga_45
• Track 43 : Wilkins_44, Sibs6_45, Topgun_44, Phlippers_43
• Track 44 : IgnatiusPatJac_44, BluSpix_42
• Track 45 : Niza_47, Ruotula_48
• Track 46 : Pita2_47, PSullivan_44
• Track 47 : Agaliana_41, ChristmasHams_41
• Track 48 : Bones_45, Eyeball_46, Rajelicia_46
• Track 49 : Teodoridan_43
• Track 50 : ProMouse_45
• Track 51 : McSinger_45, Graduation_48
• Track 52 : Bxb1_41
• Track 53 : Bigchungi_43, Snazzy_42
• Track 54 : Alvin_44
• Track 55 : Sandaddy_44, Sorpresa_44
• Track 56 : Inyanga_42, Iqorha_42
• Track 57 : Switzer_45, Sanya_44, BeesKnees_45, Dynamix_45, Bethlehem_44
• Track 58 : JC27_45, Applejack_40
• Track 59 : Bircsak_44, Gompeii16_44
• Track 60 : Raid_44
• Track 61 : Dexes_45
• Track 62 : Pelly_44
• Track 63 : KyMonks1A_47, Ashballer_46
• Track 64 : Lamina13_45, Tasp14_46
• Track 65 : Monet_48
• Track 66 : Sagefire_48
• Track 67 : Euphoria_43, LunarLander_46
• Track 68 : Violet_42
• Track 69 : Atkinbua_46
• Track 70 : Chanagan_42, Pepe_42
• Track 71 : Petp2012_45
• Track 72 : QTRlifeCrisis_45, Rhynn_44, Lesedi_42, ConceptII_46
• Track 73 : Smairt_47
• Track 74 : Dussy_46, Froghopper_43, Killigrew_44, Abbyshoes_47
• Track 75 : Nerujay_46
• Track 76 : DreamCatcher_47
• Track 77 : PowerRanger_45
• Track 78 : Aeneas_47
• Track 79 : StewieG_42, Solon_44, Zeuska_44, BillKnuckles_45
• Track 80 : Lockley_44, DD5_44
• Track 81 : PherrisBueller_44, Scowl_45
• Track 82 : Doom_45
• Track 83 : BigMau_45
• Track 84 : BaconJack_48

- Track 85 : Kykar_45
- Track 86 : Magnar_44, Mkhuseli_44
- Track 87 : Watermelon_46
- Track 88 : Cueylyss_46
- Track 89 : Bob3_42
- Track 90 : Fenn_46
- Track 91 : Zephyr_44
- Track 92 : PhrostyMug_44
- Track 93 : Nhonho_45, Mryolo_42
- Track 94 : Whitspit_43
- Track 95 : Squee_44, Blackflame_44
- Track 96 : SkiPole_47, Seanderson_47
- Track 97 : Ohno789_45
- Track 98 : Lopton_45
- Track 99 : Acme_47, Hami1_39
- Track 100 : NEHalo_43, AFIS_43
- Track 101 : Seabiscuit_46
- Track 102 : SarFire_43, Thor_43
- Track 103 : Gandalf20_46
- Track 104 : Beatrix_44, STLscum_46
- Track 105 : PinkPlastic_43
- Track 106 : Rutherferd_47
- Track 107 : Papez_47
- Track 108 : PattyP_45
- Track 109 : Molly_45
- Track 110 : Ichabod_46
- Track 111 : RidgeCB_44
- Track 112 : U2_43
- Track 113 : Ajay_45
- Track 114 : McGuire_45
- Track 115 : Bexan_43, StrongArm_44
- Track 116 : Zeeculate_43
- Track 117 : Treddle_46
- Track 118 : BK1_41, A6_41
- Track 119 : KBG_46
- Track 120 : Peterson_48
- Track 121 : Traft412_45
- Track 122 : CartmannCramer_44
- Track 123 : MilleFeuille_44
- Track 124 : MPlant7149_43
- Track 125 : Marsha_45
- Track 126 : Briton15_46
- Track 127 : Mule_42
- Track 128 : Marge_45
- Track 129 : Trouble_46
- Track 130 : Alsfro_48
- Track 131 : Pari_45
- Track 132 : Smeagol_46
- Track 133 : GageAP_45
- Track 134 : OKCentral2016_43
- Track 135 : Rebeuca_44, Kristoff_44
- Track 136 : Goose_44, Chupacabra_43
- Track 137 : Twister_42, WalterMcMickey_42, Topanga_42

• Track 138 : Severus_42, Drake94_42, PeaceMeal1_42, KittenMittens_41, Trike_42
• Track 139 : DustyMartin_48, Shapes_48, Rowdy_48, RhynO_45
• Track 140 : DontArgue_43
• Track 141 : Edison31_43
• Track 142 : Poompha_43
• Track 143 : Eaglepride_45
• Track 144 : Sham4_44, MaCh_45, Fibonacci_44, Bachome_46, Petersenfast_44, Hutc2_44, Wolpertinger_43
• Track 145 : TinyTimmy_45, Salz_44, Mabel_45, Timothy_45, Ebony_45
• Track 146 : Insomnia_45, Lucivia_45, Snape_44, Orange_44, Bowtie_45, Mulciber_44
• Track 147 : Aneem_45, Munch_45, Joselito_45, Gilberta_45, Flaverint_45
• Track 148 : Jabith_45
• Track 149 : Et2Brutus_44, Kimba_45
• Track 150 : Saskia_46
• Track 151 : Bud_44
• Track 152 : Refuge_44
• Track 153 : Steamy_41
• Track 154 : Zimmer_42
• Track 155 : DarthPhader_42
• Track 156 : Pharaoh_39
• Track 157 : Phlei_33
• Track 158 : Gail_49
• Track 159 : SororFago_48
• Track 160 : Sunhee_47
• Track 161 : Jeeves_50
• Track 162 : Luchador_50
• Track 163 : LogiBear_45
• Track 164 : Boohoo_47, Epsocamisio_46, Soups_47, KatherineG_48, Anaysia_47, LastResort_46, Looper_47, Battleship_48, Rosalind_46, JSwag_46, ShayRa_48, Switzerland_47, ReMo_46, DekHockey33_47
• Track 165 : Remus_47, Strosahl_47
• Track 166 : Oofda_47, Waits_47
• Track 167 : Nebulosus_46
• Track 168 : Ravana_48
• Track 169 : Nedarya_43
• Track 170 : Anon_42
• Track 171 : MinecraftSteve_48
• Track 172 : Warrior24_48
• Track 173 : Elle_43
• Track 174 : EagleEye_46, Lucyedi_45
• Track 175 : PainterBoy_45
• Track 176 : 40AC_46
• Track 177 : MyraDee_40
• Track 178 : Kimona_43
• Track 179 : Crucio_44, Georgie2_45, SnapTap_44, FiringLine_44, SemperFi_45, QueenBeesly_44
• Track 180 : Dignity_46
• Track 181 : Updawg_45, Piro94_44, WideWale_45, Sknot_44, Bugsy_46, Baehexic_43, NaSiaTalie_44, Flare16_44, Equemioh13_45, MiculUcigas_44, Gratitude_44
• Track 182 : SweetiePie_44
• Track 183 : RedRock_46

• Track 184 : DudeLittle_43
• Track 185 : Jsquared_43
• Track 186 : MissWhite_43
• Track 187 : WeiHuaDA_48
• Track 188 : Lokk_45
• Track 189 : Deloris_43
• Track 190 : Che12_47
• Track 191 : Travvers_47, D32_47, D29_44, Naji_47
• Track 192 : DeerParkTS_42
• Track 193 : 20ES_45, First_0044
• Track 194 : Bradman_44, MajorMajor_44, Quokka_43
• Track 195 : Echild_44, Benvolio_41
• Track 196 : Journey13_40
• Track 197 : EvilGenius_47, ChipMunk_47
• Track 198 : Agape74_46, AbbyPaige_46, Jerm_46, Turbido_45, Whabigail7_45
• Track 199 : Tristan_44
• Track 200 : Adzzy_46
• Track 201 : Loser_46
• Track 202 : Caraxes_45, Superchunk_44
• Track 203 : Dalmatian_45, Retro23_45
• Track 204 : Smeagan_47
• Track 205 : Malec_45, Larenn_44
• Track 206 : NicoleTera_45
• Track 207 : Miko_43
• Track 208 : Leviathan_46
• Track 209 : QueenB2_44
• Track 210 : Landor_44, Bactobuster_43
• Track 211 : Odin_44
• Track 212 : Prudy_43
• Track 213 : Centaur_45, Terrific_47
• Track 214 : Herbertwm_42
• Track 215 : Changeling_45
• Track 216 : L5_44
• Track 217 : Kerberos_47, Duplo_47, DBQu4n_47, Pomar16_47, Tomathan_47
• Track 218 : LionsBait_46
• Track 219 : CRB1_46
• Track 220 : HarryHoudini_45
• Track 221 : AnnaL29_46
• Track 222 : XianYue_44
• Track 223 : AN3_45, VA6_43
• Track 224 : Serenity_45
• Track 225 : HippoHollow_44
• Track 226 : ForesterFrank_44
• Track 227 : JoshKayV_46
• Track 228 : Acolyte_41
• Track 229 : EZMoney23_43
• Track 230 : Fameo_44, Heffalump_43
• Track 231 : Koduck_45
• Track 232 : C3_43, VC3_48, AN9_48, ANI8_48
• Track 233 : Power_43
• Track 234 : LilTurb_45
• Track 235 : Kalpine_44
• Track 236 : BobSwaget_44

• Track 237 : NothingSpecial_43
• Track 238 : Phaded_46
• Track 239 : TipsytheTRex_42
• Track 240 : ArcherNM_42
• Track 241 : Pukovnik_43
• Track 242 : Iwokeuplikedis_47
• Track 243 : Colin_46
• Track 244 : Ph8s_46
• Track 245 : StarStuff_47
• Track 246 : LadyBird_47
• Track 247 : SwirlSquare_46
• Track 248 : Rachaly_45
• Track 249 : Leogania_44, BiancaTri92_44
• Track 250 : GaugeLDP_43
• Track 251 : Jaan_45
• Track 252 : Trixie_44
• Track 253 : BengiVuitton_44
• Track 254 : Trooper_45
• Track 255 : BabyBack_43
• Track 256 : Anselm_45
• Track 257 : IronMan_44
• Track 258 : KingCyrus_47
• Track 259 : Drake55_46
• Track 260 : TarsusIV_42
• Track 261 : FatCactus_36
• Track 262 : Anthony_39
• Track 263 : Kinmap_43
• Track 264 : Chargerpower_44
• Track 265 : OlanP_47
• Track 266 : HashRod_49, Methuselah_45, TinyPebbles_47, BuzzBuzz_46, Soshari_50, Misomonster_49, KADY_48, LarryKay_48, Daishi_47, Spike509_48, Rummer_47, Louie6_47, Phoxy_48
• Track 267 : MarQuardt_48, Stagni_48, Mainiac_48, Cullens_48, Gwennie_48, Wooldri_50, SoYo_48, StepMih_48, Beauxregard13_48, JenCasNa_49, JHC117_48, PotatoSplit_50, LBerry_49, Sabia_48, Dieselweasel_49, LugYA_51, Penny1_49, EpicPhail_49, BreSam8_48, Tiffany_48, Bigflo_48, Colbster_48, P28Green_49, Marie_48, Croquant_49, Taurus_49, Fernando_48, MoneyMay_48, Montavir_47, Hercules11_48, Snickers_48, Phoebe_49, Anubis_51, Vix_48
• Track 268 : MadMarie_48
• Track 269 : Microwolf_48, Pembroke_48, SoilDragon_48, Jobu08_47, AugsMagnumOpus_51, Lilith_49, Malinsilva_50, Grub_48, PGHhamlin_50, MuchMore_51, Lowa_48, Watson_48
• Track 270 : EtoileNova_45, Margo_44, Noella_44, Hookmount_44, QuinnKiro_43, Norbert_43, Texage_43, Pocahontas_44, Popcicle_44, ResDef_44, Panamaxus_42, Lambert1_44, Caviar_44, Veracruz_43, Todacoro_44
• Track 271 : ClownCar_48, PhishRPhriends_46, HaveUMetTed_49, PurpleHaze_48, Pawn_48, Heliosoles_47, Phranny_49, ACFishhook_47, Manu_48, Reba_48, Calvinny_48, Groupthink_49, Kalnoky_49, Kalb97_49, Gemma_47, Marius_49
• Track 272 : Grif_48, GtownJaz_48
• Track 273 : JF2_45, MK4_45, JF4_45, B1_42
• Track 274 : Fred313_45, Roimos_45, HelDan_45, Heathen_45, Kachowdy_45, Zarafa_45, Scout_45, Goose1X_45, Goose1D_39
• Track 275 : Bxz2_44, AgronaGT15_47

• Track 276 : BabyRay_45
• Track 277 : TNguyen7_46, BlueBird_47, Bugatti_46, Giroux_47, Idleandcovert_46, Pistachio_47, SaturnRing_46, Puppy_47, Clammy_46
• Track 278 : GingkoMaracino_48, Ollie_48
• Track 279 : Cat_43
• Track 280 : Chiqui_43, BabyJohn_43
• Track 281 : Zetzy_47
• Track 282 : Isca_44
• Track 283 : Marchesa_45, DropBear_45
• Track 284 : Aglet_49
• Track 285 : DaHudson_48
• Track 286 : Shep_45
• Track 287 : MA5_45
• Track 288 : Sabinator_47, Grum1_48
• Track 289 : JeppNRM_49
• Track 290 : Rockstar_45
• Track 291 : Farber_48
• Track 292 : Phantastic_46
• Track 293 : Melvin_47, Phelipe_46, Phontbonne_45, Baby16_45, Koreni_44, Cocoaberry_45, Morrow_46, Bruiser_44, Iracema64_46, Houdini22_45, Junimo_44, Florean_45, Nemo27_45, Dhanush_45, Bombshell_45, Mazhar510_45, Holli_44, Clarenza_44, Eapen_45, Rocksand_45, Caelakin_45, Medusa_45, Phacado_45, Wizard007_45, Lunsford_46, KFPoly_44, Roosevelt_44, Albee_45, TiroTheta9_45, Northrop_45, HamSlice_44, Blackmoor_45, Huxley_44, JoongJeon_44, Abdiel_45, Nebs_46, Lemur_45, SteMason_44, BubbleTrouble_44, TinaFeyge_45, Maxo_46, CentreCat_45, Koan_43, Citius_45, Kyee_45, Millski_44, Bartimeaus_45, Burger_43, Flux_45, Maverick_45, Lorenzo_45, Relief_44, Jaykayelowell_43, Wander_45, Scamp_45, LappelDuVide_45, Polymorphads_46, Avle17_45, Nyxis_45, Iceman_45, Kingmustik0402_45, LeoAvram_45, PeterPeter_45, Ruin_45, Rosa24_44, BellusTerra_46, Camperdownii_43, Druantia_45, Deano_44, Kampy_45, Funston_44, Buckaroo_44, Chaph_45, Mayonnaise_44, Happiness_44, YoSam321_45, RockieBear_44, Shaka_45, Ohfah_46, NorthStar_44, Tinybot_44, Broseidon_45, Skipitt_44, Gadost_45, NotAPhaseMom_45, Eurydice_46, Eagle_45, MeeZee_45, Spino_44, Pipcraft_43, Alberto7_46, Connomayer_45, Romney_45, Peaches_45, LittleGuy_45, Wilbur_45, SenorClean_45, Phighter1804_45, TygerBlood_45, TroyPia_46, LittleB_45, Sabertooth_45, Eros_45, Commander_45, Taquarus_45
• Track 294 : Cici_44, Xena_43, Katalie136_44, Morpher26_44, Perplexer_44, Achebe_43, Badger_43, Bumblebee11_43, AbbysRanger_44, Backyardigan_43, Datway_44, Wile_44, PetiteSangsue_44
• Track 295 : Stink_45
• Track 296 : KekoraPapaka_45, Sparxx_46, Skadoosh_46, Sultana_45
• Track 297 : Cindaradix_42
• Track 298 : DirtyDunning_44, Arturo_44, Kratark_45
• Track 299 : LochMonster_46, Eris_44, Ulysses_44
• Track 300 : LHTSCC_47, ChampagnePapi_47, BangNhom_46, SheldonCooper_47, Obama12_46, Cerulean_46
• Track 301 : Miramae_44
• Track 302 : JetBlade_45
• Track 303 : OKaNui_45
• Track 304 : ICleared_45
• Track 305 : Mundrea_44
• Track 306 : Thanksgivukkah_44, Annyong_45
• Track 307 : AvatarAhPeg_44

• Track 308 : Cintron_44
• Track 309 : Noelle_45
• Track 310 : Pumbaa_45
• Track 311 : Kremtemulon_45
• Track 312 : Palestino_44
• Track 313 : Shygu2_44
• Track 314 : Stasia_44
• Track 315 : Florence4_38, Prinashe11_39, Florence1_37
• Track 316 : George_38
• Track 317 : LittleCherry_39, HuhtaEnerson15_39, Swirley_41, Twigg_39
• Track 318 : MarysWell_37
• Track 319 : Naca_39
• Track 320 : Scorpia_40, Chadwick_40
• Track 321 : ForGetIt_38, Archetta_38, Conspiracy_38, PickleBack_38, Lev2_38, Jovo_38
• Track 322 : PetterN_40
• Track 323 : Phlorence_37, Discoknowium_37, Tiger_37, Aragog_37
• Track 324 : Jabiru_39
• Track 325 : Bonamassa_39, Tarynearal_37
• Track 326 : Ghoulboy_40, Zolita_39, SydNat_40
• Track 327 : UnionJack_39
• Track 328 : Midas2_38, Coog_38
• Track 329 : Micasa_40
• Track 330 : AgentM_37
• Track 331 : ElTiger69_39
• Track 332 : Milcery_39
• Track 333 : Bluefalcon_37
• Track 334 : Airmid_39
• Track 335 : Cuco_38
• Track 336 : Dublin_37, Theia_36
• Track 337 : Benedict_39
• Track 338 : Lilbunny_44, Tucker_46, CloudWang3_45, Yokurt_45, ToneTone_42, Artemis2UCLA_45, Imbriano_44, Zaka_45, BlessJoy_46, Hexamo_45, Roksolana_46, Zulu_46, Wiks_44, WunderPhul_45
• Track 339 : Isiphiwo_43
• Track 340 : Jordennis_45
• Track 341 : SuperCallie99_45, DelvinSonDorr_44
• Track 342 : Indra_48, Pmask_45, Helmet_47, DaVinci_45, Temprado_46, Newrala_45, BABullseye_43, Polyphemus_46, Garak_47, GreedyLawyer_45, SuperAwesome_45, Chartreuse_45, Neeharika16_45, Cookiedough_45, JewelBug_47
• Track 343 : Blue7_48, Rifter_47
• Track 344 : Candra_45, SmellyB_45, Hoot_45, BennyP_46, Kipper29_45, EricB_45, Dorothea_45, McFly_45, VohminGhazi_45, Kazan_46
• Track 345 : Gladiator_45
• Track 346 : Blinn1_48
• Track 347 : Priamo_47
• Track 348 : Koko_47, Hammer_47
• Track 349 : Gruunaga_45
• Track 350 : Jeffabunny_45
• Track 351 : FlyCatcher_47, Toro_45, Sheen_44
• Track 352 : DroogsArmy_41
• Track 353 : Timshel_43

• Track 354 : PP_46
• Track 355 : HINdeR_41
• Track 356 : Roary_43
• Track 357 : NearlyHeadless_43
• Track 358 : Smeadley_43
• Track 359 : Danforth_42
• Track 360 : Caitlin_42, Expelliarmus_42
• Track 361 : Astro_42
• Track 362 : Phillis_44
• Track 363 : Groundhog_41
• Track 364 : Saintus_38
• Track 365 : Stephig9_43
• Track 366 : Dixon_43
• Track 367 : BogosyJay_44, Maminiaina_44
• Track 368 : Bellris_44, CogOmlette_43, WorldCup_43, Minispark_43, Rahalelujah_44
• Track 369 : Eidsmoe_45, Holex_44, Myxus_45, Phaeder_45, Ayanochan_44, Jiawan_43, Spouty_45, Beemo_45, EmyBug_44, PackMan_44, ExplosioNervosa_45, Hanray_43, Aliter_45, Catalina_46, Phonnegut_45, Pioneer_45, HortumSL17_45, Tubs_45, Priya_45, EdogawaKiddo_43, RyeScarlet_46, Qobbit_45, Fayely_45, Onglai_43
• Track 370 : SheaKeira_43
• Track 371 : Conquerage_45, Sachima_42, Scherzo_45, Ugenie5_42, Lilleskat_43
• Track 372 : Alma_45
• Track 373 : Charm_42
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• Track 817 : BelmontSKP_43, AnnaLie_43
• Track 818 : Swervy_43, Phisb_43
• Track 819 : Katzastrophic_41
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• Track 821 : Akino08_43, Loviatar_43
• Track 822 : Doobus_41, Johnathan_41
• Track 823 : Kate33_43
• Track 824 : LimaBean_42, Abigail_42
• Track 825 : SanaSana_45
• Track 826 : BabyYoda_43, Icarian_45
• Track 827 : Franklin22_41
• Track 828 : Nicky22_43
• Track 829 : Quenya_42
• Track 830 : Squircle_39, Olliecat_39
• Track 831 : BAjuniper_43
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• Track 834 : Celaena_40
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• Track 836 : Softsoap_42
• Track 837 : Buldak_39
• Track 838 : CanFranMach_44
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• Track 840 : Clayda5_41
• Track 841 : Coltrane_40, Brahms_40
• Track 842 : DickRichards_41
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• Track 854 : DirtyBubble_42
• Track 855 : Burritobowl_42
• Track 856 : Pecas_43
• Track 857 : QMacho_45
• Track 858 : Albright_40
• Track 859 : SunnyD_42
• Track 860 : AvGardian_44
• Track 861 : Stoor_43
• Track 862 : Gack_40
• Track 863 : Eden_40
• Track 864 : Didgeridoo_45
• Track 865 : BabyDaisy_42
• Track 866 : Lahqtemish_42

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- Track 868 : CliffHanger_44
- Track 869 : Floof_49
- Track 870 : Cen1621_44
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- Track 873 : UtzChips_47, Barnstormer_47
- Track 874 : SuMoo_50
- Track 875 : Zeta1847_40
- Track 876 : Forester_47
- Track 877 : GardenState_48, IAmGroot_48
- Track 878 : SuperHands_47
- Track 879 : Honk_44
- Track 880 : Caron_50
- Track 881 : Mabodamaca_48
- Track 882 : KingKamren_10
- Track 883 : EugeneKrabs_10
- Track 884 : Zhengyi_10
- Track 885 : CrunchyBoi_12
- Track 886 : Xitlalli_10
- Track 887 : Sorvannah_10, JessellCookie_10, Salvatore2000_10
- Track 888 : Alex44_10
- Track 889 : Dashyla_10
- Track 890 : TownLake_10
- Track 891 : Phogo_10
- Track 892 : Unphazed_10
- Track 893 : YellowPanda_10
- Track 894 : TicTac_11
- Track 895 : Birdfeeder_10
- Track 896 : TinyTimothy_10
- Track 897 : HitchHiker_12, Oatly_11, Biozilla_11
- Track 898 : SwissCheezer_10
- Track 899 : Conditioner_11
- Track 900 : Stormbreaker_10
- Track 901 : Corn21_11
- Track 902 : ArMaWen_10
- Track 903 : Pabst_11
- Track 904 : MiamiPanther_10
- Track 905 : Wesak_10
- Track 906 : LilyLou_11
- Track 907 : DumpQuist_10
- Track 908 : PineapplePluto_12
- Track 909 : BlueRugrat_10
- Track 910 : LesNorah_10
- Track 911 : AloeVera_10
- Track 912 : Phractured_10, Phedro_10, Pharky_10, StagePhright_10
- Track 913 : Mazun_10
- Track 914 : Yafa_10
- Track 915 : Fede_10
- Track 916 : TrippleS_10
- Track 917 : PhriedRice_10
- Track 918 : Moleficent_10
- Track 919 : Morrill_10, ThirteenKH_10

- Track 920 : SoilSleuth_10
- Track 921 : Keough_10
- Track 922 : Ashton_10
- Track 923 : Barroma_10
- Track 924 : JimmyPG_10
- Track 925 : Waterlily_10, Akoni_10
- Track 926 : Truong_10, ShyRosie_10
- Track 927 : Astartes_10
- Track 928 : RicoCaldo_10
- Track 929 : Fullmetal_10
- Track 930 : JordanFarm_10
- Track 931 : Atraxi_10
- Track 932 : Kosier_10
- Track 933 : Burro_10
- Track 934 : Scruffy_10
- Track 935 : Casino_9
- Track 936 : DoTi_10
- Track 937 : Araxxi_10
- Track 938 : Gshelby23_9
- Track 939 : Arete_11
- Track 940 : Hannabella_10
- Track 941 : MissAmericana_12
- Track 942 : Kikiko_13
- Track 943 : Dina_44, Adelaide_42, Troy_42, Lederberg_42, SamW_42
- Track 944 : StAB_45
- Track 945 : Stiles_45
- Track 946 : SJReid_103
- Track 947 : FloraSnap32_99
- Track 948 : Atuin_93
- Track 949 : Bloom_103, Mimi_99, Racecar_100
- Track 950 : BooTeria_89
- Track 951 : LeoJr_98, ReginaGlobina_98
- Track 952 : Rockabye_99
- Track 953 : Chilliams_97
- Track 954 : Stewart25555_90
- Track 955 : DunneganBoMo_88
- Track 956 : KSunshine22_93
- Track 957 : Ellewin_87
- Track 958 : Talia1610_99
- Track 959 : Patbob_98
- Track 960 : GoldenEssence_85
- Track 961 : Phrampa_92
- Track 962 : FrostedClock_102
- Track 963 : WaddleDee_86
- Track 964 : Panchaali_90
- Track 965 : Emmetator_91
- Track 966 : Artu_91
- Track 967 : PorkBelly_46
- Track 968 : GrimEater_37
- Track 969 : LisoBros_41
- Track 970 : CallinAllBarbz_41
- Track 971 : BaileyBlu_41
- Track 972 : Elfy_41

• Track 973 : Jankie_38
• Track 974 : ChipsNGuac_40, AnnabelLee_40
• Track 975 : Agamotto_41
• Track 976 : Makima_41
• Track 977 : LastNadiia_43
• Track 978 : TripleC_42
• Track 979 : Ezurina_39
• Track 980 : CardboardBox_41, Gerri43_40, Neuvillette_40, ChamoyPickle_42, Roberts_40
• Track 981 : Audell_40
• Track 982 : TMaxx_42
• Track 983 : Studio_42
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• Track 1003 : Laure_103
• Track 1004 : WorMMAs_42
• Track 1005 : Yappy_80
• Track 1006 : EmiRose_34
• Track 1007 : TPA2_63
• Track 1008 : Ponzi_14
• Track 1009 : Shocker_43
• Track 1010 : Attoomi_34
• Track 1011 : LuckyBarnes_45
• Track 1012 : BFK20_ORF44
• Track 1013 : Tailonex_28
• Track 1014 : Samy_65
• Track 1015 : Pine5_49

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 228, it was called in 960 of the 1913 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 20ES_45, A6_41, ACFishhook_47, AEgle_37, AFIS_43, AGrandiflora_42, AN3_45, AN9_48, ANI8_48, AbbeyMikolon_44, AbbyPaige_46, AbbysRanger_44, Abbyshoes_47, Abdiel_45, Abrogate_440, AceofSpades_46, Achebe_43, Acme_47, Acolyte_41, Adahisdi_44, Adolin_40, Adumb2043_38, Adzzy_46, Aeneas_47, Agaliana_41, Agape74_46, AgentM_37, Aglet_49, AgronaGT15_47, AinMach_42, Airmid_39, Ajay_45, Alatin_36, Albee_45, Alberto7_46, Aldrich_45, Aliter_45, Alma_45, Alpacados_35, Alsfro_48, Altman_46, Alvin_44, Amploria_40, Amyev_40, Anaysia_47, Aneem_45, Anglerfish_45, AngryOrchard_34, AnnaL29_46, Annyong_45, Anon_42, Anselm_45, Anthony_39, Anubis_51, AppleCloud_34, Applejack_40, Aragog_37, Arcanine_46, ArcherNM_42, Archetta_38, Arissanae_44, Arlo_42, Artemis2UCLA_45, Arturo_44, Asa16_39, Ascela_41, Ashballer_46, Astro_42, Atkinbua_46, Attoomi_34, AugsMagnumOpus_51, AvatarAhPeg_44, Avle17_45, Ayanochan_44, B1_42, BABullseye_43, BK1_41, BPBiebs31_45, Baby16_45, BabyBack_43, BabyJohn_43, BabyRay_45, Bachome_46, Backyardigan_43, BaconJack_48, Bactobuster_43, Badger_43, Baehexic_43, BaileyBlu_41, BangNhom_46, Barnstormer_47, Barriga_45, BarrowTuph_45, Bartimeaus_45, Battleship_48, Beatrix_44, Beauxregard13_48, Beemo_45, BeesKnees_45, Belenaria_36, Bellris_44, BellusTerra_46, Benedict_39, BengiVuitton_44, BennyP_46, Benvolio_41, Berrie_42, Bethlehem_44, Bexan_43, BiancaTri92_44, Big3_43, BigMau_45, BigPaolini_45, Bigchungi_43, Bigflo_48, Bigfoot_41, BillKnuckles_45, Bimmel_18, Bircsak_44, Blackflame_44, Blackmoor_45, BlessJoy_46, Blesser_43, Blinn1_48, BluSpix_42, Blue7_48, BlueBird_47, Blue_44, Bluefalcon_37, Bob3_42, BobSwaget_44, BobbyDazzler_36, BogosyJay_44, Bombshell_45, Bonamassa_39, Bonanza_36, Bones_45, Boohoo_47, Bowtie_45, Bradshaw_36, BreSam8_48, Briton15_46, Broseidon_45, Bruiser_44, Bruns_43, Bryce_36, BubbleTrouble_44, Buckaroo_44, Bud_44, Bugatti_46, Bugsy_46, Bumblebee11_43, Burger_43, Burton_44, Buttons_43, BuzzBuzz_46, Bxb1_41, Bxz2_44, C3_43, CRB1_46, CactusRose_42, Caelakin_45, Caitlin_42, CallinAllBarbz_41, Calvinny_48, Camperdownii_43, Candra_45, Caraxes_45, Carlyle_44, Caron_50, CartmannCramer_44, Cassia_40, CatBus_45, Cat_43, Catalina_46, Causa_86, Caviar_44, Celestialunch_42, Cen1621_44, Centaur_45, CentreCat_45, Cerulean_46, Chadwick_40, ChampagnePapi_47, Chanagan_42, Changeling_45, Chaph_45, Chargerpower_44, Charm_42, Chartreuse_45, Che12_47, ChipMunk_47, Chiqui_43, ChristmasHams_41, Chupacabra_43, Ciao_45, Cici_44, Cindaradix_42, Cintron_44, Citius_45, Clammy_46, Clarenza_44, CliffHanger_44, CloudWang3_45, ClownCar_48, Cocoaberry_45, CogOmlette_43, Colbster_48, Colin_46, Commander_45, Community_43, ConceptII_46, Connomayer_45, Conquerage_45, Conspiracy_38, Coog_38, Cookiedough_45, Corvo_45, CosmicSans_36, Crewmate_46, Crispicous1_43, Croquant_49, Crucio_44, Cuco_38, Cueylyss_46, Cullens_48, Cyan_41, D29_44, D32_47, DBQu4n_47, DD5_44, DaHudson_48, DaVinci_45, Daishi_47, Dalmatian_45, Danforth_42, Darrell_46, DarthPhader_42, Datway_44, Deano_44, DeerParkTS_42, DekHockey33_47, Deloris_43, DelvinSonDorr_44, Dexes_45, Dhanush_45, Dieselweasel_49, Dignity_46, Dinger_36, DirtDevil_46, DirtyDunning_44, Discoknowium_37, Dixon_43, DontArgue_43, Doom_45, Dorothea_45, DrFeelGood_43, DrManhattan_40, DrSierra_39, Drake55_46, Drake94_42, DreamCatcher_47, DreamTeam1_42, Dreamboat_46, DroogsArmy_41, DropBear_45, Druantia_45, Dublin_37, Dubu_35, DudeLittle_43, Dulcie_45, Duplo_47, Dussy_46, DustyMartin_48, Dynamix_45, EagleEye_46, Eagle_45, Eaglepride_45, Eapen_45, Ebony_45, Echild_44, Edison31_43, EdogawaKiddo_43, Edtherson_45, Eidsmoe_45, Elephantoon_44, Elezi_39, Elfy_41, Elle_43, Emotion_46, EmyBug_44, EnzoK_43, EpicPhail_49, Epsocamisio_46,

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Stasia_44, SteMason_44, Steamy_41, StepMih_48, Stephig9_43, StewieG_42, Stink_45, StrongArm_44, Strosahl_47, Subaru_39, Success_19, Sue2_42, Sultana_45, Sumter_42, Sunhee_47, SunnyD_42, Sunshine924_45, SuperAwesome_45, SuperCallie99_45, Superchunk_44, SwainyDoc_59, Swann_36, SweetiePie_44, SwirlSquare_46, Swirley_41, SwissCheese_46, Switzer_45, Switzerland_47, Swole_45, SydNat_40, TG1_31, TNguyen7_46, TWAMP_36, Tailonex_28, Takoda_36, Tallboi_40, Taquarus_45, Target_45, Tarynearal_37, Tasp14_46, Taurus_49, Tbone_40, Teagster_43, Temprado_46, Teodoridan_43, Terrific_47, Texage_43, TforTroy_42, Thanksgivukkah_44, Theia_36, TheloniousMonk_46, Thor_43, ThursdayNight_45, Tian_39, Tiffany_48, Tiger_37, Timothy_45, Timshel_43, TinaFeyge_45, TinyPebbles_47, TinyTerror_59, TinyTimmy_45, Tinybot_44, TipsytheTRex_42, TiroTheta9_45, Todacoro_44, Tomathan_47, ToneTone_42, Topanga_42, Topgun_44, Toro_45, Tote_40, Traft412_45, Travvers_47, Treddle_46, Trike_42, Tripl3t_45, Tristan_44, Trixie_44, Trouble_46, TroyPia_46, Tubs_45, Tuck_44, Tucker_46, Turab_37, Turbido_45, Turj99_42, Tutumahutu_42, Tweety19_41, Twigg_39, Twister_42, TwoPeat_45, TygerBlood_45, U2_43, Ugenie5_42, UhSalsa_36, Ulysses_44, UnionJack_39, Updawg_45, UtzChips_47, VA6_43, VC3_48, VResidence_41, Vanisoa_44, Vash_34, Veracruz_43, Violet_42, Vix_48, VohminGhazi_45, VroomVroom_45, Waits_47, WalterMcMickey_42, Wander_45, Warda_41, Warrior24_48, Watermelon_46, Watson_48, WeiHuaDA_48, Whabigail7_45, Wheeler_45, Whitspit_43, WideWale_45, Wiks_44, Wilbur_45, Wildwest_40, Wile_44, Wilkins_44, Wizard007_45, Wolpertinger_43, Wooldri_50, WorldCup_43, WunderPhul_45, Xena_43, XianYue_44, Yecey3_46, YesChef_41, Yinz_58, YoSam321_45, Yogi_36, Yokurt_45, Yoncess_36, Zaka_45, Zarafa_45, Zeeculate_43, Zephyr_44, Zetzy_47, Zeuska_44, Zimmer_42, Zolita_39, Zulu_46, phiBT1_11, phiSASD1_12,

Genes that have the "Most Annotated" start but do not call it:
• 40AC_46, ElTiger69_39, Jeffabunny_45, JuneStar_42, Liebe_42, Mahdia_44, Naca_39, Trine_42, Yang_41,

Genes that do not have the "Most Annotated" start:
• 39HC_051, 40BC_051, A3Wally_117, ABU_61, Abigail_42, Abinghost_58, AbsoluteMadLad_61, Abt2graduatex2_49, Acadian_58, Acosta_40, Adat_36, Adelaide_42, Adriana_62, Aelin_60, Agamotto_41, Agente005_39, Ahwei_52, Akino08_43, Akoma_58, Akoni_10, AksarBAT_53, Alakazam_38, AlanGrant_57, Albedo_43, Albright_40, Aleia_63, Alex44_10, AlexAdler_39, Aleyra_39, Allegro_57, AloeVera_10, Alone3_143, AltPhacts_60, Altwerkus_58, Alyxandracam_39, Amavida_56, Amigo_55, AnClar_50, Anansi_54, AnarQue_54, Anderson_61, Andre_62, Andromedas_38, AngelCake_61, Anilorac_38, AnnaLie_43, AnnabelLee_40, Antihero_52, Antoinette_39, Antonia_60, Aonishiki_61, Apex_54, Apizium_60, Applejacks_45, ArMaWen_10, AranulaLuti_38, Araxxi_10, Arbiter_56, Ares_57, Arete_11, Armstrong_40, Arroyo_43, Artu_91, Ashes_38, Ashraf_62, Ashton_10, Asis_48, Asta_38, Astartes_10, Athena_60, Atraxi_10, Atuin_93, Aubergine_38, Audell_40, Audrey_58, Austelle_54, AvGardian_44, Avocadoman_41, AxiPup_39, Axumite_51, AylexOG_44, BAjuniper_43, BFK20_ORF44, BRock_133, BabyDaisy_42, BabyGotBac_49, BabyYoda_43, Bachaco_40, Badfish_61, Baee_59, Baines_38, Baloo_58, Balsa_38, Bananafish_57, Bandik_39, Banjo_59, BarnCat_62, BaronJohn_37, Barroma_10, Basato_61, BatteryCK_61, BayC_48, Beaglebox_60, Beaupre_37, BeautPeep30_39, BeeBee8_39, Beleetus_139, BelmontSKP_43, Ben11_58, Bengal_43, Benjalauren_39, Bernardo_59, Bernstein_40, Big4_105, BigRedClifford_39, BiggityBass_49, Biozilla_11, Birdfeeder_10, BirdsNest_61, Bishoperium_60, BlackStallion_62, Blackpen_53, BlacksBerry_61, Blage_39,

Blocker23_57, Bloom_103, BlueHusk_62, BlueNGold_170, BlueRugrat_10, Bluephacebaby_60, BobRoss2024_51, BobbyK_54, Boehler_60, Boersma_57, BonesMcCoy_39, Bonino_38, BooTeria_89, BoogieWoogie_62, Boopy_173, BouleyBill_36, Boyle_57, Brad_36, Bradman_44, Brahms_40, Briakila_57, Brilliant_63, BrownCNA_55, Brownie5_57, BubbaBear_41, Buckeye_61, Buldak_39, Burr_60, Burritobowl_42, Burro_10, Bustleton_37, Byron23_39, CRB2_57, CaiB_54, Calamitous_57, Calix_38, CamL_60, CampRoach_62, CanFranMach_44, Cannibal_60, Cappuccino_38, CaptainRex_37, CardboardBox_41, CarisSwetlik_41, Carostasia_37, Carthage_59, Casbah_58, Casey_35, Cashington_40, Casino_9, Caspiboi_61, Casserole_35, Cassita_65, Cece_99, Celaena_40, ChaChing_58, Chaelin_61, Chah_62, Chako_38, Chalmers_57, ChamoyPickle_42, Chamuel_38, Chandler_58, Charles1_61, CharlieGBrown_61, CharlottesWeb_50, CheetO_60, Cheeto1_39, Chentzyk_59, Chepli_40, Cher_60, ChickenKing_38, ChikPic_38, Childish_60, ChiliPepper_40, Chilliams_97, Chipette_61, ChipsNGuac_40, Chorkpop_60, ChrisnMich_53, Christoph_38, Chuni_64, Chunky_59, Chute_62, Cidela_36, Clancy_38, Clayda5_41, Clock_37, CloverMinnie_53, Cobra_62, Coco2012_50, Coffee_57, ColaCorta_38, Colbert_59, Coldpizza_51, Coletti_63, Coltrane_40, Compostia_58, Conditioner_11, Convict_39, Cooper_54, CoraRita_38, Corn21_11, Cornbread_60, Cornobble_60, Corofin_58, Cosmolli16_61, Craff_63, CroZenni_42, Crownjwl_60, CrunchyBoi_12, CupcakePrincess_43, DaddyDaniels_62, Daffy_60, Daisy_57, Daka_63, Dashyla_10, Dati_60, Dave_39, Deenasa_58, DelRivs_59, Delphidian_39, Den3_39, Derpp_60, Devonte_57, Dewdrop_95, Dice_59, DickRichards_41, Didgeridoo_45, DigitDog_58, Dina_44, Dingo_59, Dione_58, DirtJuice_61, DirtyBubble_42, Dismas_40, DoTi_10, Doddsville_61, Dodo_119, DoesntMatter_58, DolOn_66, DonSanchon_58, Donkey_38, Donny_59, Doobus_41, Dothraki_39, DuchessDung_62, Duggie_61, DumpQuist_10, DunneganBoMo_88, Duocatuli_38, Durga_63, EZMoney23_43, Eaglehorse_57, EastView9101_57, Eden_40, EhyElimayoE_67, Eleri_38, Ellewin_87, Elva_44, ElvisPhasley_62, EmGer13_62, EmiRose_34, Emiris_63, Emmetator_91, EmpTee_60, Endor_39, Epah_52, Erasmago_107, Eremos_60, Erla_38, Espinosa_38, Etaye_62, Etna_38, Etta_38, EugeneKrabs_10, Eugenia_60, Eula_43, Evaa_50, Exploradora_38, Ezurina_39, Fabyndrax_36, Fanaw_52, Fang_62, FarmerDoug_38, Faze9_56, Fede_10, FelixTres_53, Figueroism_39, Finalfrontier_43, Finny_38, Flake_61, FlameThrower_40, FleetyMac_61, Floof_49, FloraSnap32_99, FluffyNinja_62, ForDig_52, Forester_47, Fortunato_54, Forza_174, Fozzie_61, Frankenweenie_74, Frankicide_59, Franklin22_41, Frederick_54, FremontTroll_61, FrenchFry_57, Fresco_51, Freya_58, FriarPreacher_60, Fringe_64, FrostedClock_102, Fudan_137, FugateOSU_61, Fullmetal_10, Fulton_37, Funsized_59, Gack_40, Gadjet_59, GaeCeo_39, GalaxyEater_37, Gambol_39, GardenB_38, GardenState_48, Gareth_60, Garey24_38, Gargoyle_39, Garnacho_133, Gelo_38, GeneCoco_61, Gerri43_40, Gershwin_38, Gervas_59, GiJojo_132, GinPorsche_53, Giorgio_37, Giraffe_61, Glamour_37, Glass_57, GlenHope_59, Godines_58, GoingMerry_39, GoldenEssence_85, Golden_37, GoneGirl_39, Gophee_62, Gorgeous_54, Grand2040_60, GreenChile_62, GreenIvy_37, Gretchen_48, Greys_39, Grist_42, Gshelby23_9, Gubbabump_38, Guetzie_37, Gumpizza_37, GurgleFerb_36, Gustav_47, Gwennie1_60, Gwilliam_61, Gyarad_0059, HSavage_59, Haimas_59, HairyMan_35, Haleema_59, Halfpint_57, Hally898_52, Halsey_38, Hamish_59, Hamlet_38, HanSolo_38, Hangman_53, HankSprout_39, Hannabella_10, Happabalu_61, Hartsy_61, Harvey_59, Hashim76_61, Hasitha_37, HavenFinLeoSun_40, Heath_52, Heathcliff_58, Hedgerow_57, Hekos_59, Held_60, Hendrix_88, HenryJackson_60, HerculesXL_37, Hertubise_60, Hetaeria_60, Heylee_57, HighStump_62, HitchHiker_12, Hocus_60, HogWash_62, Holeinone_57, Honk_44, Horchata_59, Hosp_050, HungryHenry_38,

Hydro_53, IAmGroot_48, Icarian_45, Ichor_55, Ilzat_38, ImtiyazSitla_62, Imvubu_52, Inchworm_62, Indlovu_55, IndyLu_42, Inventa_39, Inverness_59, Ioannes_39, Iridessa_61, Iridoclysis_61, IsaacEli_62, ItsyBitsy1_57, Ixel_38, JAMaL_53, JDog_59, Jabb_43, JacAttac_62, Jackstina_54, Jaek_55, JaguarMi_55, JakeO_61, JangoPhett_60, Janus167_38, Jasmine_38, JasonD_41, JasperRussell_38, Jbug01_62, JellyBelly_49, Jemerald_40, Jenos_42, Jerbirus_39, JeriBeth_38, Jesabah_62, JessellCookie_10, Jillium_60, Jiminy_61, JimmyPG_10, Jingles_37, Jiraiya_61, Johnathan_41, Jolie1_052, JordanFarm_10, Jovita_43, JoyceMaria_53, Jsquared_43, Juanyo_37, Juicer_40, JustBecause_62, KLucky39_59, KSunshine22_93, Kahve_60, Kailash_61, Kale_38, Kaleb_57, Kalimba_38, Kamdara_40, Kamiyu_58, KannH_38, KarasumaRum_58, Karn_61, KatChan_40, Kate33_43, Katniss_61, Katzastrophic_41, Kauala_37, Kavo_36, KayaCho_51, Keitherie_62, Kela_63, KellyGreen_39, Kenzers_43, Keough_10, Keziacharles14_44, Khan1_60, Kheth_57, Kieran_40, Kikiko_13, Kikipoo_62, Kimbrough_61, KingJulien_38, KingKamren_10, KingTut_53, KingVeVeVe_59, Kiwot_63, KlimbOn_60, Klimt_38, Kloppinator_61, Knocker_59, Knox_39, Koduck_45, Koji_37, Kolhan_57, Kosier_10, Kouch_38, Kradal_67, Kronus_58, Kurt1_39, Kwadwo_59, Kwksand96_61, L5_44, Labeouficaum_61, LadyJasley_40, Lahqtemish_42, Lambano_52, Lars_57, Larson_64, LasagnaCat_62, Lasso_61, LastNadiia_43, Laure_103, Laurie_57, Leaf_95, Leafus_38, Lederberg_42, LeeLot_61, LeeroyJenkins_68, Lego3393_59, Legolas_62, Lehmann_62, LeiMonet_63, LemonSlice_61, LeoJr_98, Lephleur_57, LesNorah_10, LestyG_57, Librie_37, Lifes_61, Ligma_51, LilMcDreamy_55, LilSmirk_57, LilTerminator_37, Lilo27_43, LilyLou_11, LimaBean_42, LittleDigger_52, LittleMinkey_63, LittleMunchkin_52, LizLemon_57, Lolalove_54, Longacauda_61, Lopsy_59, LostAndPhound_61, Lovelyunicorn_39, Loviatar_43, Lucky3_37, LuckyBarnes_45, LuckyMarjie_58, LuckySocke_138, Ludgate_39, Lulumae_58, Lulwa_58, Lumine_61, Luna18_40, Lynlen_43, MCubed_38, MRabcd_60, MaeLinda_39, Mag7_61, Magic8_61, Magpie_52, Maih_47, MajorMajor_44, Makima_41, MakoManhole_51, ManRay_38, Mana_59, Manad_60, Mandalorian_37, Mareelih_171, Mariokart_50, Marley1013_59, Marlia_59, Martin_40, Maru_60, Maskar_62, MasterPo_57, Matalotodo_60, Mazun_10, McGalleon_41, Mcshane_59, Mecca_60, Megamind20_61, Megatron_61, Melc17_60, MelsMeow_61, Mercedes_34, Merida02_40, Mesh1_62, Mesmerelda_60, MiamiPanther_10, MichaelPhcott_61, Mikota_59, MillyPhilly_39, Milomuff_42, Mimi_99, MiniBoss_58, MiniVolent_36, Minnow_54, Mireles_44, Mischief19_57, MissAmericana_12, MitKao_60, Mithril_53, MmasiCarm_59, Moleficent_10, Molivia_56, MonChoix_37, Morgushi_60, Morrigan_40, Morrill_10, Morrissey_47, Mortcellus_58, Morty007_58, Morty_61, Mosaic_59, MossRose_53, Moss_38, MrPhizzler_63, MrWorldwide_39, MsUbiquitous_43, Mudslide_53, Mulan_60, Mulaychimus_59, Murdoc_59, Mutante_60, Mysterious_56, Mysterium_37, NHagos_52, Nacho_0062, Nagem_39, Nanao_52, Nangang_58, Nathan_61, Nattles_38, Nebulous_37, Neferthena_38, Nehemiah_57, Nehme_61, Nellie_36, Neos5_58, Neuvillette_40, Newman_59, NiaNia_63, NickSell_39, Nicky22_43, Nicole21_61, Nigel_54, Nirvana_71, Nova1_63, Nozo_58, Nucci_37, Numberten_60, Nyala_59, OSmaximus_62, Oatly_11, Oats_38, Obutu_59, Olak_59, OldNelly_39, Oline_61, Olive_60, OliverWalter_59, Olivio_58, Olliecat_39, Omniscient_61, OneBrain_63, Oosterbaan_60, Opia_57, OrangeOswald_58, Orfeu_59, Orion_62, Orpington_39, Orwigg_60, Oxtober96_39, PG1_61, PSirce_38, Pabst_11, Pacifista_59, Pajaza_35, PallasAthena_61, Panchaali_90, Papafritta_38, Park1214_141, ParleG_39, PastaFagioli_43, Patbob_98, PauloDiaboli_117, Pecas_43, Peep_39, PenguinLover67_56, Penta_35, Peppino_38, Percival_49, Phaedrus_54, Phamished_62, Phanita_38, Phantasmagoria_57, Phareon_59, Pharky_10, PhatCats2014_61, PhatLouie_62, Phayeta_60, Phedro_10,

Phelemich_56, PhenghisKhan_61, Pherbot_37, Pherdinand_62, Pherferi_39, Phergie_62, Phiderman_39, PhigPhack_43, PhillyPhantom_38, Philly_57, Phipps_60, Phireproof_39, Phisb_43, Phleuron_61, Phlyer_58, Phogo_10, Phractured_10, Phrampa_92, PhrankReynolds_60, PhredFlintston_39, PhriedRice_10, Phriends_39, PhrodoBaggins_61, Phunky_59, PigHeaded_40, Piglet_0060, Pikmin_35, Pine5_49, PineapplePluto_12, PinheadLarry_61, Pinkman_60, Pipefish_59, Pipsqueak_59, Placalicious_61, Plata_61, Plmatters_59, Pocket_38, Podrick_59, PondAmelia_44, Pops_60, PorkBelly_46, Poster_52, Potter_59, Prickles_62, PrinceCharming_57, PrincePhergus_37, Prince_53, ProfessorX_60, Puhltonio_60, Pumpernickel_113, Puppers_42, PuppyEggo_39, QMacho_45, QuadZero_37, Quantum_66, Quartz_38, QueenBeane_60, QueenPie_51, Quesadilla_58, Quisquiliae_61, Quokka_43, Qyrzula_52, Raccoon_38, Racecar_100, RagingRooster_57, RainyPolka_49, Rapheph_39, Raptor_39, Rasputia_89, RawrgerThat_54, Reccee_58, RedMaple_62, RedRaider89_61, Redfield_38, ReginaGlobina_98, RenegadeRaider_39, Renkei_52, Renzie_39, Reprobate_57, Rhinoforte_57, Rich_58, RicoCaldo_10, Ricotta_60, Riggan_61, Rimu_60, Rings_55, Rinkes_56, Rita130_57, Rita1961_59, Riverton_60, Riyhil_39, Roberts_40, Robinson_39, Robyn_60, RockScotty_37, Rockabye_99, Rog141_38, Roliet_58, Rollins_40, RomaT_58, Rona_40, Roscoe_61, Rosebush_56, RosieMae_38, Roy17_59, RunningOnE_16, SDcharge11_60, SJReid_103, SJay_39, Sabella_56, Sabourin_38, Saguaro_58, Salazzle_62, Salete_48, SallyH_63, Salvatore2000_10, SamW_42, Samaymay_60, SanaSana_45, SansAfet_43, Sansa_37, SarBear_42, Saratos_38, Sarkar_67, SassyCat97_59, Satis_67, Schadenfreude_60, Schimmels22_37, Schnapsidee_38, Schubert_36, Schueller_61, Scissor2024_37, Scoot17C_61, Scrick_61, Scruffy_10, Sedgewig_38, Selr12_61, Serendipitous_56, Serendipity_60, Serpentine_0060, ShadowBud_61, ShaiHulud_39, Shamu_38, Sharkboy_41, Shatter_51, Shee_39, Sheila_58, Shenandoah_57, Shenyu_58, ShiVal_58, Shocker_43, ShyRosie_10, Sigman_61, SilverBell_61, Simielle_60, Sinatra_37, SirBeanington_42, SirBeauregard_61, SirJeffery_57, SirVictor_37, Sisko_49, Sixama_172, Skippy_61, Skylord_40, Slatt_61, Slay_43, SlippinJimmy_60, Softsoap_42, SoilGremlin_39, SoilSleuth_10, Soile_61, Solea_43, SolidSnake_40, Solosis_59, SonOfLevi_38, Sooty_38, Sophia_59, SorJuana_54, Soror1_38, Sorvannah_10, Soto_59, Sour_53, Spartan300_60, SpecialK_38, Squid_60, Squiggle_61, Squircle_39, StAB_45, StagePhright_10, Stanktossa_39, Stewart25555_90, Stiles_45, StingRay_38, Stinger_54, StinkyVeggy_58, StirfryIV_38, Stoor_43, Stormbreaker8_38, Stormbreaker_10, Strathdee_39, Stromboli_43, Struggle_61, Studio_42, Stuu_38, SuMoo_50, Suffolk_59, Suigeneris_59, SuperHands_47, Superfresh_39, Surely_60, Swervy_43, Swiphy_62, Swish_62, SwissCheezer_10, Symere_38, SynergyX_58, TA17A_58, TMaxx_42, TP1604_48, TPA2_63, Talia1610_99, TallGrassMM_60, Talos_142, Taraxa_63, TarsusIV_42, TatarkaPM_39, Teagan_39, TeddyBear_38, Telesworld_58, Tenda_38, ThirteenKH_10, Thompsone_39, Thonko_60, Thora_60, Thorongil_39, ThreeOh3D2_62, Thunderbird_60, Thunderclap_54, TicTac_11, Timmi_59, TinSulphur_39, Tinciduntsolum_58, TinyTimothy_10, Tinyman4_37, Toaka_44, TomBombadil_60, Tomlarah_61, Toni_60, TooFast2Furius_60, Tooj_59, TownLake_10, TraderJ_54, Tres_57, Triad_62, TripleC_42, TrippleS_10, Trooper_45, Troy_42, True_59, Truong_10, Trypo_63, TukTuk_43, TwoBits_37, Tydolla_56, TyrionL_61, UAch1_60, UncleHowie_59, Unphazed_10, Upyo_46, Usavi_60, Vafari_38, Vaishali24_59, Valjean_60, Vaticameos_57, Vectra_62, Velene_39, Veritas_62, Vic9_00057, Vincenzo_56, VioletZ_55, Virapocalypse_61, Virgeve_60, Vispistious_39, Vista_60, Vitas_40, Vivaldi_62, Vortex_60, WaddleDee_86, Waleliano_53, WalkingDead_44, Wallhey_61, Wardwill_39, WaterT_64, Waterdiva_60, Waterlily_10, Weher20_60, Wesak_10, West99_57, WestPM_35, Widow_43, WildNOut_39, WilliamStrong_38, Windsor_60,

Winzigespinne_38, Wooper_54, WorMMAs_42, Xavier_59, Xebius_38, Xincheng_54, Xitlalli_10, Xkcd426_52, YDN12_50, Yafa_10, Yago84_49, Yahalom_57, Yappy_80, Yeezus_55, YellowPanda_10, Yeshua_54, Yoshand_62, YouGoGlencoco_61, YuuY_37, Zada_39, Zaider_61, Zayuliv_37, Zelda_61, Zemanar_54, Zenitsu_38, Zenteno07_62, Zepp_38, Zeta1847_40, Zhengyi_10, Zonia_62, Zooman_100,

Summary by start number:

Start 11:
• Found in 3 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gustav_47 (CD), Mahdia_44 (CD), Morrissey_47 (CD),

Start 14:
• Found in 1 of 2144 (0.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Applejacks_45 (CD),

Start 15:
• Found in 2 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 2 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Puppers_42 (CD), Widow_43 (CD),

Start 16:
• Found in 1 of 2144 (0.0%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Upyo_46 (CD),

Start 72:
• Found in 3 of 2144 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: 40AC_46 (A17),

Start 111:
• Found in 4 of 2144 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: WorMMAs_42 (UNK),

Start 122:
• Found in 3 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 33.3% of time when present
• Phage (with cluster) where this start called: JuneStar_42 (AZ1),

Start 135:
• Found in 6 of 2144 (0.3%) of genes in pham

• Manual Annotations of this start: 1 of 1913
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Liebe_42 (AZ2),

Start 145:
• Found in 9 of 2144 (0.4%) of genes in pham
• Manual Annotations of this start: 7 of 1913
• Called 77.8% of time when present
• Phage (with cluster) where this start called: Araxxi_10 (EM1), Arete_11 (EM1), Burro_10 (EM1), Casino_9 (EM1), DoTi_10 (EM1), Gshelby23_9 (EM1), Hannabella_10 (EM1),

Start 152:
• Found in 4 of 2144 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Trine_42 (CD),

Start 159:
• Found in 2 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 2 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JAMaL_53 (B4), Nigel_54 (B4),

Start 161:
• Found in 23 of 2144 (1.1%) of genes in pham
• Manual Annotations of this start: 21 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astartes_10 (EK2), Biozilla_11 (EK1), Birdfeeder_10 (EK1), Conditioner_11 (EK1), Corn21_11 (EK1), CrunchyBoi_12 (EK1), Fullmetal_10 (EK2), HitchHiker_12 (EK1), Keough_10 (EK2), Mazun_10 (EK2), Moleficent_10 (EK2), Oatly_11 (EK1), Pabst_11 (EK1), Pharky_10 (EK2), Phedro_10 (EK2), Phractured_10 (EK2), PhriedRice_10 (EK2), PineappplePluto_12 (EK1), RicoCaldo_10 (EK2), StagePhright_10 (EK2), Stormbreaker_10 (EK1), TicTac_11 (EK1), Xitlalli_10 (EK1),

Start 162:
• Found in 7 of 2144 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Yang_41 (AZ1),

Start 163:
• Found in 66 of 2144 (3.1%) of genes in pham
• Manual Annotations of this start: 29 of 1913
• Called 51.5% of time when present
• Phage (with cluster) where this start called: Akoni_10 (EK2), Alex44_10 (EK1), AloeVera_10 (EK2), ArMaWen_10 (EK1), Ashton_10 (EK2), Atraxi_10 (EK2), Barroma_10 (EK2), BrownCNA_55 (B4), ChrisnMich_53 (B4), Dashyla_10 (EK1), DumpQuist_10 (EK1), EugeneKrabs_10 (EK), Fede_10 (EK2), Fortunato_54 (B4), Frederick_54 (B4), JimmyPG_10 (EK2), JordanFarm_10 (EK2), KingKamren_10 (EK), Kosier_10 (EK2), LilyLou_11 (EK1), Morrill_10 (EK2), Phogo_10 (EK1), PorkBelly_46 (FJ), ShyRosie_10 (EK2), SoilSleuth_10 (EK2), SwissCheezer_10

(EK1), ThirteenKH_10 (EK2), TownLake_10 (EK1), TrippleS_10 (EK2), Truong_10 (EK2), Unphazed_10 (EK1), Waterlily_10 (EK2), Yafa_10 (EK2), Zhengyi_10 (EK),

Start 166:
• Found in 5 of 2144 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Kikiko_13 (EM2), MissAmericana_12 (EM2),

Start 172:
• Found in 8 of 2144 (0.4%) of genes in pham
• Manual Annotations of this start: 7 of 1913
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Adelaide_42 (EP), BlueRugrat_10 (EK1), Dina_44 (EP), Lederberg_42 (EP), LesNorah_10 (EK1), SamW_42 (EP), Troy_42 (EP),

Start 173:
• Found in 323 of 2144 (15.1%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 0.9% of time when present
• Phage (with cluster) where this start called: Piglet_0060 (B1), StAB_45 (EP), Stiles_45 (EP),

Start 174:
• Found in 6 of 2144 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 83.3% of time when present
• Phage (with cluster) where this start called: DigitDog_58 (B5), KarasumaRum_58 (B5), Nangang_58 (B5), Shenyu_58 (B5), StinkyVeggy_58 (B5),

Start 176:
• Found in 9 of 2144 (0.4%) of genes in pham
• Manual Annotations of this start: 7 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Imvubu_52 (B10), JessellCookie_10 (EK1), LuckyBarnes_45 (singleton), MiamiPanther_10 (EK1), Salvatore2000_10 (EK1), Sorvannah_10 (EK1), TinyTimothy_10 (EK1), Wesak_10 (EK1), YellowPanda_10 (EK1),

Start 177:
• Found in 6 of 2144 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Stinger_54 (B4),

Start 181:
• Found in 7 of 2144 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Scruffy_10 (EM1),

Start 182:
• Found in 51 of 2144 (2.4%) of genes in pham
• Manual Annotations of this start: 33 of 1913
• Called 90.2% of time when present
• Phage (with cluster) where this start called: Acadian_58 (B5), Ahwei_52 (B4), AlanGrant_57 (B4), Antihero_52 (B4), Apex_54 (B4), Austelle_54 (B4), Baee_59 (B5), BobbyK_54 (B4), Cooper_54 (B4), Donny_59 (B5), EastView9101_57 (B5), Epah_52 (B4), Fanaw_52 (B4), GinPorsche_53 (B4), Hally898_52 (B4), Hangman_53 (B4), Heath_52 (B4), Hydro_53 (B4), JaguarMi_55 (B4), JoyceMaria_53 (B4), Lambano_52 (B4), LilMcDreamy_55 (B12), LittleDigger_52 (B4), Lolalove_54 (B4), Magpie_52 (B4), Mithril_53 (B4), Mudslide_53 (B4), Mysterious_56 (B5), Nanao_52 (B4), Nehemiah_57 (B5), Phelemich_56 (B5), Poster_52 (B4), Prince_53 (B4), QueenPie_51 (B4), RawrgerThat_54 (B4), Reccee_58 (B5), Renkei_52 (B4), Reprobate_57 (B5), Rich_58 (B5), Rita130_57 (B5), Serendipitous_56 (B5), Suigeneris_59 (B5), Vincenzo_56 (B4), VioletZ_55 (B4), Waleliano_53 (B4), Xincheng_54 (B4),

Start 184:
• Found in 9 of 2144 (0.4%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 88.9% of time when present
• Phage (with cluster) where this start called: 39HC_051 (B6), 40BC_051 (B6), ForDig_52 (B6), Hosp_050 (B6), Indlovu_55 (B11), Jolie1_052 (B6), KayaCho_51 (B6), Minnow_54 (B6),

Start 186:
• Found in 6 of 2144 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Zemanar_54 (B4),

Start 187:
• Found in 2 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 50.0% of time when present
• Phage (with cluster) where this start called: EmiRose_34 (singleton),

Start 190:
• Found in 364 of 2144 (17.0%) of genes in pham
• Manual Annotations of this start: 336 of 1913
• Called 99.5% of time when present
• Phage (with cluster) where this start called: ABU_61 (B1), AbsoluteMadLad_61 (B1), Adriana_62 (B1), Aelin_60 (B1), Aleia_63 (B1), Allegro_57 (B2), AltPhacts_60 (B1), Altwerkus_58 (B1), Anderson_61 (B1), Andre_62 (B1), AngelCake_61 (B1), Antonia_60 (B1), Aonishiki_61 (B1), Apizium_60 (B1), Arbiter_56 (B2), Ares_57 (B2), Ashraf_62 (B1), Badfish_61 (B1), Bananafish_57 (B2), Banjo_59 (B1), Basato_61 (B1), BatteryCK_61 (B1), Beaglebox_60 (B1), Bishoperium_60 (B1), BlackStallion_62 (B1), BlacksBerry_61 (B1), Blocker23_57 (B2), BlueHusk_62 (B1), Bluephacebaby_60 (B1), Boehler_60 (B1), BoogieWoogie_62 (B1), Boyle_57 (B2), Brilliant_63 (B1), Brownie5_57 (B2), Buckeye_61 (B1), Burr_60 (B1), CRB2_57 (B9), Calamitous_57 (B2), CamL_60 (B1), CampRoach_62 (B1), Cannibal_60 (B1), Carthage_59 (B1), Caspiboi_61 (B1), Chaelin_61 (B1), Chah_62 (B1), Charles1_61 (B1), CharlieGBrown_61 (B1), CheetO_60 (B1), Cher_60 (B1), Childish_60 (B1),

Chipette_61 (B1), Chorkpop_60 (B1), Chuni_64 (B1), Chunky_59 (B1), Chute_62 (B1), Cobra_62 (B1), Coffee_57 (B2), Colbert_59 (B1), Coletti_63 (B1), Cornbread_60 (B1), Cornobble_60 (B1), Cosmolli16_61 (B1), Craff_63 (B1), Crownjwl_60 (B1), DaddyDaniels_62 (B1), Daffy_60 (B1), Daka_63 (B1), Dati_60 (B1), DelRivs_59 (B1), Derpp_60 (B1), Dice_59 (B1), Dingo_59 (B1), Dione_58 (B1), DirtJuice_61 (B1), Doddsville_61 (B1), DoesntMatter_58 (B1), DolOn_66 (B1), DonSanchon_58 (B1), DuchessDung_62 (B1), Duggie_61 (B1), Durga_63 (B1), Eaglehorse_57 (B2), ElvisPhasley_62 (B1), EmGer13_62 (B1), Emiris_63 (B1), EmpTee_60 (B1), Eremos_60 (B1), Etaye_62 (B1), Eugenia_60 (B1), Fang_62 (B1), Faze9_56 (B2), Flake_61 (B1), FleetyMac_61 (B1), FluffyNinja_62 (B1), Fozzie_61 (B1), Frankicide_59 (B1), FremontTroll_61 (B1), FrenchFry_57 (B2), Freya_58 (B1), FriarPreacher_60 (B1), Fringe_64 (B1), FugateOSU_61 (B1), Funsized_59 (B9), Gareth_60 (B1), GeneCoco_61 (B1), Giraffe_61 (B1), Glass_57 (B2), Godines_58 (B2), Gophee_62 (B1), Grand2040_60 (B1), GreenChile_62 (B1), Gwennie1_60 (B1), Gwilliam_61 (B1), Gyarad_0059 (B1), HSavage_59 (B1), Haimas_59 (B1), Haleema_59 (B1), Hamish_59 (B1), Happabalu_61 (B1), Hartsy_61 (B1), Harvey_59 (B1), Hedgerow_57 (B2), Hekos_59 (B1), Held_60 (B1), HenryJackson_60 (B1), Hertubise_60 (B1), Hetaeria_60 (B1), HighStump_62 (B1), Hocus_60 (B1), HogWash_62 (B1), Holeinone_57 (B2), Horchata_59 (B1), ImtiyazSitla_62 (B1), Inchworm_62 (B1), Inverness_59 (B1), Iridessa_61 (B1), Iridoclysis_61 (B1), IsaacEli_62 (B1), ItsyBitsy1_57 (B2), JDog_59 (B1), JacAttac_62 (B1), JakeO_61 (B1), JangoPhett_60 (B1), Jbug01_62 (B1), Jesabah_62 (B1), Jillium_60 (B1), Jiminy_61 (B1), Jiraiya_61 (B1), KLucky39_59 (B1), Kahve_60 (B1), Kailash_61 (B1), Kaleb_57 (B2), Karn_61 (B1), Katniss_61 (B1), Keitherie_62 (B1), Khan1_60 (B1), Kheth_57 (B2), Kikipoo_62 (B1), Kimbrough_61 (B1), KingTut_53 (B1), KingVeVeVe_59 (B1), Kiwot_63 (B1), KlimbOn_60 (B1), Kloppinator_61 (B1), Knocker_59 (B9), Kolhan_57 (B2), Kwadwo_59 (B1), Kwksand96_61 (B1), Labeoufficaum_61 (B1), Lars_57 (B2), Larson_64 (B1), LasagnaCat_62 (B1), Lasso_61 (B1), Laurie_57 (B2), LeeLot_61 (B1), Lego3393_59 (B1), Legolas_62 (B1), Lehmann_62 (B1), LeiMonet_63 (B1), LemonSlice_61 (B1), Lephleur_57 (B2), LilSmirk_57 (B2), LizLemon_57 (B2), Longacauda_61 (B1), Lopsy_59 (B1), LostAndPhound_61 (B1), LuckyMarjie_58 (B1), Lulumae_58 (B1), Lulwa_58 (B1), Lumine_61 (B1), MRabcd_60 (B1), Mag7_61 (B1), Magic8_61 (B1), Mana_59 (B1), Manad_60 (B1), Maru_60 (B1), Maskar_62 (B1), MasterPo_57 (B2), Matalotodo_60 (B1), Mcshane_59 (B1), Mecca_60 (B1), Megamind20_61 (B1), Megatron_61 (B1), Melc17_60 (B1), MelsMeow_61 (B1), Mesh1_62 (B1), Mesmerelda_60 (B1), MichaelPhcott_61 (B1), Mikota_59 (B1), MiniBoss_58 (B1), MitKao_60 (B1), Morgushi_60 (B1), Morty_61 (B1), Mosaic_59 (B1), MrPhizzler_63 (B1), Mulan_60 (B1), Murdoc_59 (B1), Mutante_60 (B1), Nacho_0062 (B1), Nathan_61 (B1), Nehme_61 (B1), Newman_59 (B1), NiaNia_63 (B1), Nicole21_61 (B1), Nova1_63 (B1), Numberten_60 (B1), Nyala_59 (B1), OSmaximus_62 (B1), Olak_59 (B1), Oline_61 (B1), Olive_60 (B1), OliverWalter_59 (B1), Omniscient_61 (B1), OneBrain_63 (B1), Oosterbaan_60 (B1), Opia_57 (B2), Orfeu_59 (B1), Orion_62 (B1), Orwigg_60 (B1), PG1_61 (B1), Pacifista_59 (B1), PallasAthena_61 (B1), Phamished_62 (B1), Phantasmagoria_57 (B2), Phareon_59 (B1), PhatCats2014_61 (B1), PhatLouie_62 (B1), PhenghisKhan_61 (B1), Pherdinand_62 (B1), Phergie_62 (B1), Phipps_60 (B1), Phleuron_61 (B1), PhrankReynolds_60 (B1), PhrodoBaggins_61 (B1), Phunky_59 (B1), PinheadLarry_61 (B1), Pinkman_60 (B1), Pipsqueak_59 (B1), Placalicious_61 (B1), Plata_61 (B1), Plmatters_59 (B1), Podrick_59 (B1), Pops_60 (B1), Potter_59 (B1), Prickles_62 (B1), PrinceCharming_57 (B2), ProfessorX_60 (B1), Puhltonio_60 (B1), QueenBeane_60 (B1), Quesadilla_58 (B9), Quisquiliae_61 (B1), RedMaple_62 (B1), RedRaider89_61 (B1), Rhinoforte_57 (B2), Ricotta_60 (B1), Riggan_61 (B1), Rimu_60 (B1), Rinkes_56

(B9), Riverton_60 (B1), Robyn_60 (B1), Roliet_58 (B1), Roscoe_61 (B1), Rosebush_56 (B2), Roy17_59 (B1), SDcharge11_60 (B1), Sabella_56 (B2), Salazzle_62 (B1), SallyH_63 (B1), Samaymay_60 (B1), SassyCat97_59 (B1), Schadenfreude_60 (B1), Schueller_61 (B1), Scoot17C_61 (B1), Scrick_61 (B1), Selr12_61 (B1), Serendipity_60 (B1), Serpentine_0060 (B1), ShadowBud_61 (B1), Sheila_58 (B1), ShiVal_58 (B1), Sigman_61 (B1), SilverBell_61 (B1), Simielle_60 (B1), SirBeauregard_61 (B1), Skippy_61 (B1), Slatt_61 (B1), Soile_61 (B1), Solosis_59 (B1), Sophia_59 (B1), Soto_59 (B1), Spartan300_60 (B1), Squid_60 (B1), Squiggle_61 (B1), Struggle_61 (B1), Suffolk_59 (B1), Surely_60 (B1), Swiphy_62 (B1), Swish_62 (B1), TA17A_58 (B2), TallGrassMM_60 (B1), Taraxa_63 (B1), Telesworld_58 (B1), Thora_60 (B1), ThreeOh3D2_62 (B1), Thunderbird_60 (B1), Timmi_59 (B1), Tinciduntsolum_58 (B2), TomBombadil_60 (B1), Tomlarah_61 (B1), Toni_60 (B1), TooFast2Furius_60 (B1), Tooj_59 (B1), Tres_57 (B2), Triad_62 (B1), True_59 (B1), Trypo_63 (B1), TyrionL_61 (B1), UAch1_60 (B1), UncleHowie_59 (B1), Usavi_60 (B1), Vaishali24_59 (B1), Valjean_60 (B1), Vaticameos_57 (B1), Vectra_62 (B1), Veritas_62 (B1), Vic9_00057 (B2), Virapocalypse_61 (B1), Virgeve_60 (B1), Vista_60 (B1), Vivaldi_62 (B1), Vortex_60 (B1), Wallhey_61 (B1), Waterdiva_60 (B1), Weher20_60 (B1), West99_57 (B2), Windsor_60 (B1), Xavier_59 (B1), Yoshand_62 (B1), YouGoGlencoco_61 (B1), Zaider_61 (B1), Zelda_61 (B1), Zonia_62 (B1),

Start 193:
• Found in 2 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Saguaro_58 (B7),

Start 194:
• Found in 6 of 2144 (0.3%) of genes in pham
• Manual Annotations of this start: 4 of 1913
• Called 83.3% of time when present
• Phage (with cluster) where this start called: BFK20_ORF44 (singleton), Dewdrop_95 (GC), Hendrix_88 (GC), Leaf_95 (GC), Rasputia_89 (GC),

Start 195:
• Found in 7 of 2144 (0.3%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 42.9% of time when present
• Phage (with cluster) where this start called: ElTiger69_39 (A5), Naca_39 (A5), PenguinLover67_56 (B9),

Start 200:
• Found in 16 of 2144 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 6.2% of time when present
• Phage (with cluster) where this start called: Jeffabunny_45 (A6),

Start 213:
• Found in 13 of 2144 (0.6%) of genes in pham
• Manual Annotations of this start: 13 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amavida_56 (AQ), Amigo_55 (AQ), Anansi_54 (AQ), Boersma_57 (AQ), Gorgeous_54 (AQ), Heylee_57 (AQ), Ichor_55 (AQ), Jaek_55 (AQ), Molivia_56 (AQ), Rings_55 (AQ), SorJuana_54 (AQ),

Thunderclap_54 (AQ), Yeezus_55 (AQ),

Start 214:
• Found in 9 of 2144 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 1913
• Called 77.8% of time when present
• Phage (with cluster) where this start called: CardboardBox_41 (FR), ChamoyPickle_42 (FR), Ezurina_39 (FR), Gerri43_40 (FR), Neuvillette_40 (FR), Roberts_40 (FR), Studio_42 (FR),

Start 215:
• Found in 52 of 2144 (2.4%) of genes in pham
• Manual Annotations of this start: 12 of 1913
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Armstrong_40 (EB), Bernstein_40 (EB), BirdsNest_61 (B13), Brahms_40 (EB), Coltrane_40 (EB), Hashim76_61 (B13), LittleMinkey_63 (B13), Rollins_40 (EB), Skylord_40 (EB), TatarkaPM_39 (EA1), Vitas_40 (EB), Yappy_80 (singleton), Zenteno07_62 (B13),

Start 217:
• Found in 95 of 2144 (4.4%) of genes in pham
• Manual Annotations of this start: 68 of 1913
• Called 78.9% of time when present
• Phage (with cluster) where this start called: Abigail_42 (EB), Akino08_43 (EB), Albedo_43 (EB), Albright_40 (EB), AnnaLie_43 (EB), Arroyo_43 (EB), AvGardian_44 (EB), Avocadoman_41 (EB), AylexOG_44 (EB), BAjuniper_43 (EB), BabyDaisy_42 (EB), BabyYoda_43 (EB), Bachaco_40 (EB), BelmontSKP_43 (EB), Bengal_43 (EB), BubbaBear_41 (EB), Burritobowl_42 (EB), CanFranMach_44 (EB), Cashington_40 (EB), Celaena_40 (EB), ChiliPepper_40 (EB), Clayda5_41 (EB), CroZenni_42 (EB), CupcakePrincess_43 (EB), DickRichards_41 (EB), Didgeridoo_45 (EB), DirtyBubble_42 (EB), Dismas_40 (EB), Doobus_41 (EB), Eden_40 (EB), Elva_44 (EB), Eula_43 (EB), Finalfrontier_43 (EB), FlameThrower_40 (EB), Franklin22_41 (EB), Gack_40 (EB), Grist_42 (EB), Icarian_45 (EB), IndyLu_42 (EB), Jabb_43 (EB), Johnathan_41 (EB), Jovita_43 (EB), Kamdara_40 (EB), Kate33_43 (EB), Katzastrophic_41 (EB), Kenzers_43 (EB), Kieran_40 (EB), Lahqtemish_42 (EB), Lilo27_43 (EB), LimaBean_42 (EB), Loviatar_43 (EB), Lynlen_43 (EB), Milomuff_42 (EB), MsUbiquitous_43 (EB), Nicky22_43 (EB), Pecas_43 (EB), PhigPhack_43 (EB), Phisb_43 (EB), PondAmelia_44 (EB), QMacho_45 (EB), Rona_40 (EB), SanaSana_45 (EB), SansAfet_43 (EB), SarBear_42 (EB), Sharkboy_41 (EB), SirBeanington_42 (EB), Slay_43 (EB), Softsoap_42 (EB), Solea_43 (EB), Stoor_43 (EB), Stromboli_43 (EB), Swervy_43 (EB), Thonko_60 (B8), TukTuk_43 (EB), WalkingDead_44 (EB),

Start 219:
• Found in 3 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buldak_39 (EB), Olliecat_39 (EB), Squircle_39 (EB),

Start 221:
• Found in 23 of 2144 (1.1%) of genes in pham
• Manual Annotations of this start: 14 of 1913

• Called 65.2% of time when present
• Phage (with cluster) where this start called: Agamotto_41 (FR), AnClar_50 (DR), AnnabelLee_40 (FR), Audell_40 (FR), BiggityBass_49 (DR), ChipsNGuac_40 (FR), LastNadiia_43 (FR), LittleMunchkin_52 (DR), Makima_41 (FR), Mireles_44 (FR), Pine5_49 (singleton), Sisko_49 (DR), TMaxx_42 (FR), TripleC_42 (FR), Yago84_49 (DR),

Start 222:
• Found in 325 of 2144 (15.2%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 0.9% of time when present
• Phage (with cluster) where this start called: A3Wally_117 (GD1), Cece_99 (GD3), Dodo_119 (GD1),

Start 223:
• Found in 5 of 2144 (0.2%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Big4_105 (GD2), Erasmago_107 (GD2), Pumpernickel_113 (GD4), Zooman_100 (GD2),

Start 224:
• Found in 1 of 2144 (0.0%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coldpizza_51 (DR),

Start 225:
• Found in 30 of 2144 (1.4%) of genes in pham
• Manual Annotations of this start: 16 of 1913
• Called 76.7% of time when present
• Phage (with cluster) where this start called: AksarBAT_53 (DR), AnarQue_54 (DR), Axumite_51 (DR), Blackpen_53 (DR), BobRoss2024_51 (DR), CaiB_54 (DR), CharlottesWeb_50 (DR), CloverMinnie_53 (DR), Coco2012_50 (DR), Evaa_50 (DR), FelixTres_53 (DR), Fresco_51 (DR), JellyBelly_49 (DR), Ligma_51 (DR), MakoManhole_51 (DR), Mariokart_50 (DR), MossRose_53 (DR), NHagos_52 (DR), Shatter_51 (DR), TPA2_63 (singleton), TraderJ_54 (DR), Wooper_54 (DR), Yeshua_54 (DR),

Start 226:
• Found in 2 of 2144 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 50.0% of time when present
• Phage (with cluster) where this start called: RunningOnE_16 (JN),

Start 227:
• Found in 37 of 2144 (1.7%) of genes in pham
• Manual Annotations of this start: 33 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashes_38 (AZ5), Beaupre_37 (AZ5), Bradman_44 (A2), Cappuccino_38 (AZ5), Donkey_38 (AZ5), EZMoney23_43 (A2), Floof_49 (EH), Forester_47 (EH), Gambol_39 (AZ5), GardenState_48 (EH), Giorgio_37 (AZ5), Gretchen_48 (EH), Gumpizza_37 (AZ5), Halsey_38 (AZ5),

Honk_44 (EH), IAmGroot_48 (EH), Jsquared_43 (A2), Kalimba_38 (AZ5), Keziacharles14_44 (A9), Koduck_45 (A2), L5_44 (A2), MajorMajor_44 (A2), Moss_38 (AZ5), Mysterium_37 (AZ5), Percival_49 (EH), Quokka_43 (A2), RockScotty_37 (AZ5), Sabourin_38 (AZ5), Sooty_38 (AZ5), SpecialK_38 (AZ5), Stuu_38 (AZ5), SuMoo_50 (EH), SuperHands_47 (EH), TarsusIV_42 (A2), Toaka_44 (A9), Trooper_45 (A2), Zeta1847_40 (EH),

Start 228:
• Found in 1076 of 2144 (50.2%) of genes in pham
• Manual Annotations of this start: 960 of 1913
• Called 99.2% of time when present
• Phage (with cluster) where this start called: 20ES_45 (A2), A6_41 (A1), ACFishhook_47 (A3), AEgle_37 (AZ1), AFIS_43 (A1), AGrandiflora_42 (AZ1), AN3_45 (A2), AN9_48 (A2), ANI8_48 (A2), AbbeyMikolon_44 (BL), AbbyPaige_46 (A2), AbbysRanger_44 (A4), Abbyshoes_47 (A1), Abdiel_45 (A4), Abrogate_440 (A1), AceofSpades_46 (AZ4), Achebe_43 (A4), Acme_47 (A1), Acolyte_41 (A2), Adahisdi_44 (A1), Adolin_40 (AZ1), Adumb2043_38 (AZ1), Adzzy_46 (A2), Aeneas_47 (A1), Agaliana_41 (A1), Agape74_46 (A2), AgentM_37 (A5), Aglet_49 (A3), AgronaGT15_47 (A3), AinMach_42 (AZ7), Airmid_39 (A5), Ajay_45 (A1), Alatin_36 (CA), Albee_45 (A4), Alberto7_46 (A4), Aldrich_45 (A1), Aliter_45 (A9), Alma_45 (A9), Alpacados_35 (CA), Alsfro_48 (A1), Altman_46 (A1), Alvin_44 (A1), Amploria_40 (AZ1), Amyev_40 (AZ1), Anaysia_47 (A15), Aneem_45 (A11), Anglerfish_45 (A1), AngryOrchard_34 (CA), AnnaL29_46 (A2), Annyong_45 (A4), Anon_42 (A15), Anselm_45 (A2), Anthony_39 (A20), Anubis_51 (A3), AppleCloud_34 (CA), Applejack_40 (A1), Aragog_37 (A5), Arcanine_46 (A1), ArcherNM_42 (A2), Archetta_38 (A5), Arissanae_44 (A9), Arlo_42 (A1), Artemis2UCLA_45 (A6), Arturo_44 (A4), Asa16_39 (AZ1), Ascela_41 (AZ1), Ashballer_46 (A1), Astro_42 (A8), Atkinbua_46 (A1), Attoomi_34 (singleton), AugsMagnumOpus_51 (A3), AvatarAhPeg_44 (A4), Avle17_45 (A4), Ayanochan_44 (A9), B1_42 (A3), BABullseye_43 (A6), BK1_41 (A1), BPBiebs31_45 (A1), Baby16_45 (A4), BabyBack_43 (A2), BabyJohn_43 (A3), BabyRay_45 (A3), Bachome_46 (A11), Backyardigan_43 (A4), BaconJack_48 (A1), Bactobuster_43 (A2), Badger_43 (A4), Baehexic_43 (A2), BaileyBlu_41 (FP), BangNhom_46 (A4), Barnstormer_47 (EH), Barriga_45 (A1), BarrowTuph_45 (A1), Bartimeaus_45 (A4), Battleship_48 (A15), Beatrix_44 (A1), Beauxregard13_48 (A3), Beemo_45 (A9), BeesKnees_45 (A1), Belenaria_36 (CA), Bellris_44 (A9), BellusTerra_46 (A4), Benedict_39 (A5), BengiVuitton_44 (A2), BennyP_46 (A6), Benvolio_41 (A2), Berrie_42 (AZ1), Bethlehem_44 (A1), Bexan_43 (A1), BiancaTri92_44 (A2), Big3_43 (A1), BigMau_45 (A1), BigPaolini_45 (A1), Bigchungi_43 (A1), Bigflo_48 (A3), Bigfoot_41 (A1), BillKnuckles_45 (A1), Bimmel_18 (BT), Bircsak_44 (A1), Blackflame_44 (A1), Blackmoor_45 (A4), BlessJoy_46 (A6), Blesser_43 (A1), Blinn1_48 (A6), BluSpix_42 (A1), Blue7_48 (A6), BlueBird_47 (A3), Blue_44 (A1), Bluefalcon_37 (A5), Bob3_42 (A1), BobSwaget_44 (A2), BobbyDazzler_36 (CA), BogosyJay_44 (A9), Bombshell_45 (A4), Bonamassa_39 (A5), Bonanza_36 (CA), Bones_45 (A1), Boohoo_47 (A15), Bowtie_45 (A11), Bradshaw_36 (CA), BreSam8_48 (A3), Briton15_46 (A1), Broseidon_45 (A4), Bruiser_44 (A4), Bruns_43 (A1), Bryce_36 (CA), BubbleTrouble_44 (A4), Buckaroo_44 (A4), Bud_44 (A11), Bugatti_46 (A3), Bugsy_46 (A2), Bumblebee11_43 (A4), Burger_43 (A4), Burton_44 (A1), Buttons_43 (A1), BuzzBuzz_46 (A3), Bxb1_41 (A1), Bxz2_44 (A3), C3_43 (A2), CRB1_46 (A2), CactusRose_42 (A1), Caelakin_45 (A4), Caitlin_42 (A8), CallinAllBarbz_41 (FP), Calvinny_48 (A3), Camperdownii_43 (A4), Candra_45 (A6), Caraxes_45 (A2), Carlyle_44 (A1), Caron_50 (EH), CartmannCramer_44 (A1), Cassia_40 (AZ1), CatBus_45 (A1), Cat_43 (A3), Catalina_46 (A9), Causa_86 (AI), Caviar_44 (A3),

Celestialunch_42 (A9), Cen1621_44 (EH), Centaur_45 (A2), CentreCat_45 (A4), Cerulean_46 (A4), Chadwick_40 (A5), ChampagnePapi_47 (A4), Chanagan_42 (A1), Changeling_45 (A2), Chaph_45 (A4), Chargerpower_44 (A22), Charm_42 (A9), Chartreuse_45 (A6), Che12_47 (A2), ChipMunk_47 (A2), Chiqui_43 (A3), ChristmasHams_41 (A1), Chupacabra_43 (A10), Ciao_45 (A1), Cici_44 (A4), Cindaradix_42 (A4), Cintron_44 (A4), Citius_45 (A4), Clammy_46 (A3), Clarenza_44 (A4), CliffHanger_44 (EB), CloudWang3_45 (A6), ClownCar_48 (A3), Cocoaberry_45 (A4), CogOmlette_43 (A9), Colbster_48 (A3), Colin_46 (A2), Commander_45 (A4), Community_43 (AZ1), ConceptII_46 (A1), Connomayer_45 (A4), Conquerage_45 (A9), Conspiracy_38 (A5), Coog_38 (A5), Cookiedough_45 (A6), Corvo_45 (A1), CosmicSans_36 (CA), Crewmate_46 (AZ1), Crispicous1_43 (A1), Croquant_49 (A3), Crucio_44 (A2), Cuco_38 (A5), Cueylyss_46 (A1), Cullens_48 (A3), Cyan_41 (AZ1), D29_44 (A2), D32_47 (A2), DBQu4n_47 (A2), DD5_44 (A1), DaHudson_48 (A3), DaVinci_45 (A6), Daishi_47 (A3), Dalmatian_45 (A2), Danforth_42 (A8), Darrell_46 (A9), DarthPhader_42 (A12), Datway_44 (A4), Deano_44 (A4), DeerParkTS_42 (A2), DekHockey33_47 (A15), Deloris_43 (A2), DelvinSonDorr_44 (A6), Dexes_45 (A1), Dhanush_45 (A4), Dieselweasel_49 (A3), Dignity_46 (A2), Dinger_36 (CA), DirtDevil_46 (A1), DirtyDunning_44 (A4), Discoknowium_37 (A5), Dixon_43 (A8), DontArgue_43 (A10), Doom_45 (A1), Dorothea_45 (A6), DrFeelGood_43 (A1), DrManhattan_40 (AZ1), DrSierra_39 (AZ1), Drake55_46 (A2), Drake94_42 (A10), DreamCatcher_47 (A1), DreamTeam1_42 (A9), Dreamboat_46 (A1), DroogsArmy_41 (A7), DropBear_45 (A3), Druantia_45 (A4), Dublin_37 (A5), Dubu_35 (BJ), DudeLittle_43 (A2), Dulcie_45 (A1), Duplo_47 (A2), Dussy_46 (A1), DustyMartin_48 (A10), Dynamix_45 (A1), EagleEye_46 (A16), Eagle_45 (A4), Eaglepride_45 (A10), Eapen_45 (A4), Ebony_45 (A11), Echild_44 (A2), Edison31_43 (A10), EdogawaKiddo_43 (A9), Edtherson_45 (A1), Eidsmoe_45 (A9), Elephantoon_44 (A9), Elezi_39 (AZ1), Elfy_41 (FP), Elle_43 (A15), Emotion_46 (AZ4), EmyBug_44 (A9), EnzoK_43 (A1), EpicPhail_49 (A3), Epsocamisio_46 (A15), Equemioh13_45 (A2), Eraser_39 (AZ1), EricB_45 (A6), Erik_36 (CA), Eris_44 (A4), Eros_45 (A4), Espica_36 (CA), Espresso_44 (A1), Et2Brutus_44 (A11), EtoileNova_45 (A3), Euphoria_43 (A1), Euratis_35 (BB1), Eurydice_46 (A4), EvilGenius_47 (A2), Exile_36 (AZ6), Expelliarmus_42 (A8), ExplosioNervosa_45 (A9), Eyeball_46 (A1), Fajezeel_47 (A1), Fameo_44 (A2), Farber_48 (A3), Fascinus_41 (A1), FatCactus_36 (A20), Fayely_45 (A9), Fenn_46 (A1), Fernando_48 (A3), Fibonacci_44 (A11), FiringLine_44 (A2), First_0044 (A2), FiveHead_49 (AZ4), Flare16_44 (A2), Flaverint_45 (A11), Florean_45 (A4), Florence1_37 (A5), Florence4_38 (A5), Flutur_40 (AZ), Flux_45 (A4), FlyCatcher_47 (A7), ForGetIt_38 (A5), ForesterFrank_44 (A2), Forsytheast_44 (A1), Francis47_44 (A1), Fred313_45 (A3), Froghopper_43 (A1), Funston_44 (A4), Fushigi_43 (A1), GMA2_66 (DS), GMonster_42 (A1), Gachnar_45 (A1), Gadost_45 (A4), GageAP_45 (A1), Gail_49 (A14), Gandalf20_46 (A1), Garak_47 (A6), GaugeLDP_43 (A2), Gemma_47 (A3), George_38 (A5), Georgie2_45 (A2), Ghoulboy_40 (A5), Gilberta_45 (A11), GingkoMaracino_48 (A3), Giroux_47 (A3), Gladiator_45 (A6), Glubnar_59 (B3), GodonK_188 (DK), Gollum_36 (CA), Gompeii16_44 (A1), Goose1D_39 (A3), Goose1X_45 (A3), Goose_44 (A10), Graduation_48 (A1), Gratitude_44 (A2), GrecoEtereo_45 (A1), GreedyLawyer_45 (A6), Greg_47 (A1), Grif_48 (A3), GrimEater_37 (FP), GroundGoblin_45 (A1), Groundhog_41 (A8), Groupthink_49 (A3), Grub_48 (A3), Grum1_48 (A3), Gruunaga_45 (A6), GtownJaz_48 (A3), Gwendoluna_47 (A1), Gwennie_48 (A3), Gyzlar_41 (A1), HINdeR_41 (A7), HamSlice_44 (A4), Hami1_39 (A1), Hammer_47 (A6), HanShotFirst_43 (A1), Hanray_43 (A9), Happiness_44 (A4), Harlequin_36 (CA), HarryHoudini_45 (A2), HarryOW_43 (A1), HarveySr_57 (B3), HashRod_49 (A3), HaveUMetTed_49 (A3), Heathen_45 (A3), Heather_37 (BB2), Heffalump_43 (A2), HelDan_45 (A3),

Heliosoles_47 (A3), Helmet_47 (A6), Herbertwm_42 (A2), Hercules11_48 (A3), Hermia_46 (A1), HermioneGrange_44 (A1), Hexamo_45 (A6), HippoHollow_44 (A2), Hiro_36 (CA), Holex_44 (A9), Holli_44 (A4), Homines_37 (A1), Hookmount_44 (A3), Hoot_45 (A6), Hope4ever_46 (A1), HortumSL17_45 (A9), Houdini22_45 (A4), HuhtaEnerson15_39 (A5), Hutc2_44 (A11), Huxley_44 (A4), ICleared_45 (A4), ILeeKay_49 (A1), IUFootball_42 (AZ2), Ibantik_18 (JN), Iceman_45 (A4), Ichabod_46 (A1), Idleandcovert_46 (A3), IgnatiusPatJac_44 (A1), Imbriano_44 (A6), Indra_48 (A6), Insomnia_45 (A11), Inyanga_42 (A1), Iqorha_42 (A1), Iracema64_46 (A4), IronMan_44 (A2), Isca_44 (A3), Isiphiwo_43 (A6), Iter_41 (AZ1), IttyBittyPiggy_41 (AZ1), Iwokeuplikedis_47 (A2), JC27_45 (A1), JF2_45 (A3), JF4_45 (A3), JHC117_48 (A3), JSwag_46 (A15), Jaan_45 (A2), Jabiru_39 (A5), Jabith_45 (A11), JackSparrow_46 (A1), Janeemi_43 (AZ1), Jankie_38 (FP), JasmineDragon_45 (AZ4), Jasper_46 (A1), Jaykayelowell_43 (A4), Jeeves_50 (A14), JenCasNa_49 (A3), JeppNRM_49 (A3), Jerm2_45 (A1), Jerm_46 (A2), Jester_36 (CA), JetBlade_45 (A4), JewelBug_47 (A6), Jiawan_43 (A9), Jobu08_47 (A3), Joemato_41 (AZ1), JohnDoe_41 (AZ1), JohnThicc_45 (AZ4), JoongJeon_44 (A4), Jordennis_45 (A6), Jorgensen_45 (A1), Joselito_45 (A11), JoshKayV_46 (A2), Journey13_40 (A2), Jovo_38 (A5), Jstan_41 (AZ1), JuliaChild_45 (A1), Junimo_44 (A4), KADY_48 (A3), KBG_46 (A1), KFPoly_44 (A4), KSSJEB_43 (A1), Kachowdy_45 (A3), Kalb97_49 (A3), Kalnoky_49 (A3), Kalpine_44 (A2), Kampy_45 (A4), Kanely_45 (A1), Katalie136_44 (A4), KatherineG_48 (A15), Kaylissa_42 (AZ1), Kazan_46 (A6), KeAlii_40 (AZ1), KekoraPapaka_45 (A4), Kenmech_48 (A1), Kerberos_47 (A2), KikiBouba_46 (A1), Killigrew_44 (A1), Kimba_45 (A11), Kimona_43 (A19), KingCyrus_47 (A2), Kingmustik0402_45 (A4), Kinmap_43 (A21), Kipper29_45 (A6), KittenMittens_41 (A10), Klodlith_43 (A9), Koan_43 (A4), Koko_47 (A6), Koreni_44 (A4), Kratark_45 (A4), Kremtemulon_45 (A4), Krishelle_36 (CA), Kristoff_44 (A10), Kugel_46 (A1), KyMonks1A_47 (A1), Kyee_45 (A4), Kykar_45 (A1), LBerry_49 (A3), LHTSCC_47 (A4), LadyAstra_46 (AZ4), LadyBird_47 (A2), Lambert1_44 (A3), Lamina13_45 (A1), Landor_44 (A2), LappelDuVide_45 (A4), Larenn_44 (A2), LarryKay_48 (A3), LastResort_46 (A15), Lego_41 (AZ1), Lemur_45 (A4), LeoAvram_45 (A4), Leogania_44 (A2), Lesedi_42 (A1), Lev2_38 (A5), Levia_42 (A1), Leviathan_46 (A2), Licorice_48 (A1), LilBib_45 (A1), LilTurb_45 (A2), Lilbooboo_34 (BB1), Lilbunny_44 (A6), Lilith_49 (A3), Lilleskat_43 (A9), Lillie_36 (CA), LionsBait_46 (A2), LisoBros_41 (FP), LittleB_45 (A4), LittleCherry_39 (A5), LittleGuy_45 (A4), Lizalica_39 (AZ1), LochMonster_46 (A4), Lockley_44 (A1), LogiBear_45 (A15), Lokk_45 (A2), London_39 (AZ1), LoneWolf_45 (A9), Looper_47 (A15), Lopton_45 (A1), Lorenzo_45 (A4), Loser_46 (A2), Louie6_47 (A3), Lowa_48 (A3), Luchador_50 (A14), Lucivia_45 (A11), Lucyedi_45 (A16), LugYA_51 (A3), LunarLander_46 (A1), Lunsford_46 (A4), MA5_45 (A3), MK4_45 (A3), MPlant7149_43 (A1), MaCh_45 (A11), MaGuCo_40 (AZ2), Mabel_45 (A11), Mabodamaca_48 (EH), MadMarie_48 (A3), Magnar_44 (A1), Magnito_42 (A1), Mainiac_48 (A3), Makemake_44 (A1), Malec_45 (A2), Malinsilva_50 (A3), Maminiaina_44 (A9), Manatee_45 (A1), Manu_48 (A3), MarQuardt_48 (A3), Marcell_43 (A1), Marchesa_45 (A3), Marchy_39 (A1), Marco3_47 (A1), Marge_45 (A1), Margo_44 (A3), Marie_48 (A3), Marius_49 (A3), Maroc7_43 (A1), Marsha_45 (A1), MaryBeth_45 (A1), MarysWell_37 (A5), Maureen_42 (AZ2), Maverick_45 (A4), Maxo_46 (A4), Mayonnaise_44 (A4), Mazhar510_45 (A4), McFly_45 (A6), McGuire_45 (A1), McSinger_45 (A1), Medusa_45 (A4), MeeZee_45 (A4), MegTheThird_43 (A9), Melvin_47 (A4), MetalQZJ_44 (A1), Methuselah_45 (A3), Micasa_40 (A5), Michkear_41 (AZ), Michley_44 (A1), Microwolf_48 (A3), MiculUcigas_44 (A2), Midas2_38 (A5), Miko_43 (A2), Milcery_39 (A5), MilleFeuille_44 (A1), Millski_44 (A4), MinecraftSteve_48 (A15), MiniMommy_46 (AZ4), Minispark_43 (A9), Miramae_44 (A4), Misomonster_49 (A3), MissSwiss_41 (AZ1), MissWhite_43 (A2), Mkhuseli_44 (A1), Molly_45 (A1),

Monet_48 (A1), MoneyMay_48 (A3), Montavir_47 (A3), Moose_44 (A1), Morpher26_44 (A4), Morrow_46 (A4), MrGordo_44 (A1), Mryolo_42 (A1), MuchMore_51 (A3), Mudpuppy_38 (AZ1), Mulciber_44 (A11), Mule_42 (A1), Munch_45 (A11), Mundrea_44 (A4), Museum_45 (A1), MyraDee_40 (A18), Myxus_45 (A9), NEHalo_43 (A1), NaSiaTalie_44 (A2), Naiad_36 (CA), Naira_46 (A1), Naji_47 (A2), Nancinator_36 (CA), Natosaleda_36 (CA), NearlyHeadless_43 (A8), Nebs_46 (A4), Nebulosus_46 (A15), Nedarya_43 (A15), Neeharika16_45 (A6), Nemo27_45 (A4), Nerujay_46 (A1), Nesbitt_42 (BL), Newrala_45 (A6), Nhonho_45 (A1), NicoleTera_45 (A2), Niobe_39 (AZ1), Nitro_40 (AZ1), Niza_47 (A1), Noella_44 (A3), Noelle_45 (A4), Norbert_43 (A3), NorthStar_44 (A4), Northrop_45 (A4), Norz_45 (A1), NotAPhaseMom_45 (A4), NothingSpecial_43 (A2), Noxious_46 (A1), Nyxis_45 (A4), OKCentral2016_43 (A10), OKaNui_45 (A4), Obama12_46 (A4), ObiToo_46 (AZ1), Odin_44 (A2), Ohfah_46 (A4), Ohno789_45 (A1), OlanP_47 (A3), Ollie_48 (A3), Onglai_43 (A9), Oofda_47 (A15), Oogway_42 (A1), Orange_44 (A11), Origami_45 (AZ4), P28Green_49 (A3), PGHhamlin_50 (A3), PP_46 (A7), PSullivan_44 (A1), PacerPaul_45 (A1), PackMan_44 (A9), PainterBoy_45 (A16), Palestino_44 (A4), Panamaxus_42 (A3), PandaPo_41 (AZ1), Papez_47 (A1), Paphu_43 (A1), Paraselene_43 (A1), Pari_45 (A1), Parliament_44 (A1), Partridge_36 (CA), PascalRango_45 (A1), PattyP_45 (A1), Pawn_48 (A3), Payneful_44 (A1), PeaceMeal1_42 (A10), Peaches_45 (A4), Pelly_44 (A1), Pembroke_48 (A3), Penny1_49 (A3), Pepe_42 (A1), Perplexer_44 (A4), Perseus_45 (A1), PeterPeter_45 (A4), Petersenfast_44 (A11), Peterson_48 (A1), PetiteSangsue_44 (A4), Petp2012_45 (A1), Petruchio_45 (A1), PetterN_40 (A5), Ph8s_46 (A2), Phacado_45 (A4), Phaded_46 (A2), Phaeder_45 (A9), PhailMary_35 (CA), Phantastic_46 (A3), Pharaoh_39 (A12), Phelipe_46 (A4), Phendrix_176 (DK), PherrisBueller_44 (A1), Phighter1804_45 (A4), Phillis_44 (A8), PhineBark_44 (A1), PhishRPhriends_46 (A3), Phives_43 (AZ1), Phlei_33 (A13), Phlippers_43 (A1), Phlorence_37 (A5), Phoebe_49 (A3), Phonnegut_45 (A9), Phontbonne_45 (A4), Phoxy_48 (A3), Phrankenstein_36 (CA), Phranny_49 (A3), Phroglets_31 (AV), PhrostyMug_44 (A1), PickleBack_38 (A5), PinkPlastic_43 (A1), Pinto_45 (A1), Pioneer_45 (A9), Pipcraft_43 (A4), Pippin_47 (A1), Piro94_44 (A2), Pistachio_47 (A3), Pita2_47 (A1), Pixelle_41 (AZ1), Pmask_45 (A6), Pocahontas_44 (A3), Polymorphads_46 (A4), Polyphemus_46 (A6), Pomar16_47 (A2), Ponzi_14 (singleton), Poompha_43 (A10), Popcicle_44 (A3), PotatoSplit_50 (A3), PowerRanger_45 (A1), Power_43 (A2), Powerpuff_43 (AZ1), Priamo_47 (A6), Prinashe11_39 (A5), Priya_45 (A9), ProMouse_45 (A1), Prudy_43 (A2), Pukovnik_43 (A2), Pumbaa_45 (A4), Pumpkins_40 (AZ1), Puppet_46 (A1), Puppy_47 (A3), PurpleHaze_48 (A3), QTRlifeCrisis_45 (A1), Qobbit_45 (A9), QueenB2_44 (A2), QueenBeesly_44 (A2), Quenya_42 (EB), QuinnKiro_43 (A3), RER2_29 (CA), RGL3_31 (CA), Rachaly_45 (A2), Rahalelujah_44 (A9), Raid_44 (A1), Rajelicia_46 (A1), Rasputin_36 (CA), Ravana_48 (A15), ReMo_46 (A15), Reba_48 (A3), Rebeuca_44 (A10), RedRock_46 (A2), Reedo_40 (AZ1), Refuge_44 (A12), Relief_44 (A4), RemusLoopin_36 (BB2), Remus_47 (A15), ResDef_44 (A3), Retro23_45 (A2), RexFury_36 (CA), Rhodalysa_36 (CA), RhynO_45 (A10), Rhynn_44 (A1), RidgeCB_44 (A1), Rifter_47 (A6), Ringer_46 (A1), Roary_43 (A8), RockieBear_44 (A4), Rocksand_45 (A4), Rockstar_45 (A3), Rohr_45 (A1), Roimos_45 (A3), Roksolana_46 (A6), Romney_45 (A4), Roosevelt_44 (A4), Rosa24_44 (A4), Rosalind_46 (A15), Rowa_41 (BL), Rowdy_48 (A10), Rubeus_45 (A1), Rufus_45 (A1), Ruin_45 (A4), Rummer_47 (A3), Ruotula_48 (A1), Rutherferd_47 (A1), RyeScarlet_46 (A9), STLscum_46 (A1), Sabertooth_45 (A4), Sabia_48 (A3), Sabinator_47 (A3), Sachima_42 (A9), Sagefire_48 (A1), Saintus_38 (A8), Salz_44 (A11), Samora_36 (BB1), Samy_65 (singleton), Sandaddy_44 (A1), Sanya_44 (A1), SarFire_43 (A1), Saskia_46 (A11), SaturnRing_46 (A3), Scamp_45 (A4), Schaffner_42 (AZ1), Scherzo_45 (A9), Scorpia_40 (A5), Scout_45 (A3),

Scowl_45 (A1), Seabiscuit_46 (A1), Seanderson_47 (A1), Sebastisaurus_36 (BB2), SemperFi_45 (A2), SenorClean_45 (A4), Serenity_45 (A2), Severus_42 (A10), Shaka_45 (A4), ShakeItOph_45 (AZ4), Sham4_44 (A11), Shapes_48 (A10), Shawty_33 (BB1), ShayRa_48 (A15), Shayna_42 (EB), SheaKeira_43 (A9), Sheen_44 (A7), SheldonCooper_47 (A4), Shep_45 (A3), ShortQueendom_40 (A1), Shuman_36 (CA), Shygu2_44 (A4), Sibs6_45 (A1), Simpson_43 (AZ1), Skadoosh_46 (A4), Skelbel_40 (AZ1), SkiPole_47 (A1), Skipitt_44 (A4), Sknot_44 (A2), Slagathor_47 (A1), Smairt_47 (A1), Smeadley_43 (A8), Smeagan_47 (A2), Smeagol_46 (A1), SmellyB_45 (A6), SnapTap_44 (A2), Snape_44 (A11), Snazzy_42 (A1), Snek_40 (AZ3), Snickers_48 (A3), SoYo_48 (A3), SoilDragon_48 (A3), Solon_44 (A1), Soondubu_37 (AZ6), SororFago_48 (A14), Sorpresa_44 (A1), Soshari_50 (A3), Soups_47 (A15), Sparxx_46 (A4), Spike509_48 (A3), SpikeBT_45 (A1), Spino_44 (A4), Spooks_19 (BT), Spouty_45 (A9), Squee_44 (A1), StAugustine_85 (AI), StCroix_36 (CA), Stagni_48 (A3), StarStuff_47 (A2), Stasia_44 (A4), SteMason_44 (A4), Steamy_41 (A12), StepMih_48 (A3), Stephig9_43 (A8), StewieG_42 (A1), Stink_45 (A4), StrongArm_44 (A1), Strosahl_47 (A15), Subaru_39 (AZ1), Success_19 (BT), Sue2_42 (AZ1), Sultana_45 (A4), Sumter_42 (A1), Sunhee_47 (A14), SunnyD_42 (EB), Sunshine924_45 (A1), SuperAwesome_45 (A6), SuperCallie99_45 (A6), Superchunk_44 (A2), SwainyDoc_59 (B3), Swann_36 (CA), SweetiePie_44 (A2), SwirlSquare_46 (A2), Swirley_41 (A5), SwissCheese_46 (A1), Switzer_45 (A1), Switzerland_47 (A15), Swole_45 (A1), SydNat_40 (A5), TG1_31 (BB1), TNguyen7_46 (A3), TWAMP_36 (CA), Tailonex_28 (singleton), Takoda_36 (CA), Tallboi_40 (AZ1), Taquarus_45 (A4), Target_45 (A1), Tarynearal_37 (A5), Tasp14_46 (A1), Taurus_49 (A3), Tbone_40 (AZ1), Teagster_43 (EB), Temprado_46 (A6), Teodoridan_43 (A1), Terrific_47 (A2), Texage_43 (A3), TforTroy_42 (AZ1), Thanksgivukkah_44 (A4), Theia_36 (A5), TheloniousMonk_46 (A1), Thor_43 (A1), ThursdayNight_45 (AZ), Tian_39 (AZ1), Tiffany_48 (A3), Tiger_37 (A5), Timothy_45 (A11), Timshel_43 (A7), TinaFeyge_45 (A4), TinyPebbles_47 (A3), TinyTerror_59 (B3), TinyTimmy_45 (A11), Tinybot_44 (A4), TipsytheTRex_42 (A2), TiroTheta9_45 (A4), Todacoro_44 (A3), Tomathan_47 (A2), ToneTone_42 (A6), Topanga_42 (A10), Topgun_44 (A1), Toro_45 (A7), Tote_40 (A1), Traft412_45 (A1), Travvers_47 (A2), Treddle_46 (A1), Trike_42 (A10), Tripl3t_45 (A1), Tristan_44 (A2), Trixie_44 (A2), Trouble_46 (A1), TroyPia_46 (A4), Tubs_45 (A9), Tuck_44 (AZ1), Tucker_46 (A6), Turab_37 (AZ1), Turbido_45 (A2), Turj99_42 (A1), Tutumahutu_42 (AZ1), Tweety19_41 (AZ3), Twigg_39 (A5), Twister_42 (A10), TwoPeat_45 (A1), TygerBlood_45 (A4), U2_43 (A1), Ugenie5_42 (A9), UhSalsa_36 (CA), Ulysses_44 (A4), UnionJack_39 (A5), Updawg_45 (A2), UtzChips_47 (EH), VA6_43 (A2), VC3_48 (A2), VResidence_41 (AZ1), Vanisoa_44 (A9), Vash_34 (BB1), Veracruz_43 (A3), Violet_42 (A1), Vix_48 (A3), VohminGhazi_45 (A6), VroomVroom_45 (AZ4), Waits_47 (A15), WalterMcMickey_42 (A10), Wander_45 (A4), Warda_41 (AZ1), Warrior24_48 (A15), Watermelon_46 (A1), Watson_48 (A3), WeiHuaDA_48 (A2), Whabigail7_45 (A2), Wheeler_45 (A1), Whitspit_43 (A1), WideWale_45 (A2), Wiks_44 (A6), Wilbur_45 (A4), Wildwest_40 (AZ1), Wile_44 (A4), Wilkins_44 (A1), Wizard007_45 (A4), Wolpertinger_43 (A11), Wooldri_50 (A3), WorldCup_43 (A9), WunderPhul_45 (A6), Xena_43 (A4), XianYue_44 (A2), Yecey3_46 (A9), YesChef_41 (AZ1), Yinz_58 (B3), YoSam321_45 (A4), Yogi_36 (CA), Yokurt_45 (A6), Yoncess_36 (CA), Zaka_45 (A6), Zarafa_45 (A3), Zeeculate_43 (A1), Zephyr_44 (A1), Zetzy_47 (A3), Zeuska_44 (A1), Zimmer_42 (A12), Zolita_39 (A5), Zulu_46 (A6), phiBT1_11 (BB1), phiSASD1_12 (BJ),

Start 229:
• Found in 1 of 2144 (0.0%) of genes in pham
• Manual Annotations of this start: 1 of 1913

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sixama_172 (DS),

Start 230:
• Found in 56 of 2144 (2.6%) of genes in pham
• Manual Annotations of this start: 52 of 1913
• Called 98.2% of time when present
• Phage (with cluster) where this start called: Abinghost_58 (B3), Akoma_58 (B3), Athena_60 (B3), Audrey_58 (B3), Baloo_58 (B3), Ben11_58 (B3), Bernardo_59 (B3), BlueNGold_170 (DS), Boopy_173 (DS), Briakila_57 (B3), Casbah_58 (B3), ChaChing_58 (B3), Chalmers_57 (B3), Chandler_58 (B3), Chentzyk_59 (B3), Compostia_58 (B3), Corofin_58 (B3), Daisy_57 (B3), Deenasa_58 (B3), Devonte_57 (B3), Forza_174 (DS), Gadjet_59 (B3), Gervas_59 (B3), GlenHope_59 (B3), Halfpint_57 (B3), Heathcliff_58 (B3), Jackstina_54 (B3), Kamiyu_58 (B3), Kronus_58 (B3), LestyG_57 (B3), Mareelih_171 (DS), Marley1013_59 (B3), Marlia_59 (B3), MmasiCarm_59 (B3), Mortcellus_58 (B3), Morty007_58 (B3), Mulaychimus_59 (B3), Neos5_58 (B3), Nozo_58 (B3), Obutu_59 (B3), Olivio_58 (B3), OrangeOswald_58 (B3), Phaedrus_54 (B3), Phayeta_60 (B3), Philly_57 (B3), Phlyer_58 (B3), Pipefish_59 (B3), RagingRooster_57 (B3), Rita1961_59 (B3), RomaT_58 (B3), Shenandoah_57 (B3), SlippinJimmy_60 (B3), SynergyX_58 (B3), Tydolla_56 (B3), Yahalom_57 (B3),

Start 232:
• Found in 429 of 2144 (20.0%) of genes in pham
• Manual Annotations of this start: 2 of 1913
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Qyrzula_52 (B2), SirJeffery_57 (B5), Sour_53 (DR),

Start 233:
• Found in 4 of 2144 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 1913
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Panchaali_90 (FC), PauloDiaboli_117 (GD1),

Start 238:
• Found in 24 of 2144 (1.1%) of genes in pham
• Manual Annotations of this start: 11 of 1913
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Atuin_93 (FC), Bloom_103 (FC), Chilliams_97 (FC), Ellewin_87 (FC), FloraSnap32_99 (FC), FrostedClock_102 (FC), GoldenEssence_85 (FC), Mimi_99 (FC), Patbob_98 (FC), Phrampa_92 (FC), Racecar_100 (FC), Rockabye_99 (FC), SJReid_103 (FC), Stewart25555_90 (FC), Talia1610_99 (FC), WaddleDee_86 (FC),

Start 241:
• Found in 260 of 2144 (12.1%) of genes in pham
• Manual Annotations of this start: 3 of 1913
• Called 1.2% of time when present
• Phage (with cluster) where this start called: Chako_38 (EA1), Chamuel_38 (EA1), SonOfLevi_38 (EA1),

Start 243:
• Found in 80 of 2144 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 1.2% of time when present
• Phage (with cluster) where this start called: JasonD_41 (EA1),

Start 255:
• Found in 57 of 2144 (2.7%) of genes in pham
• Manual Annotations of this start: 8 of 1913
• Called 15.8% of time when present
• Phage (with cluster) where this start called: Alone3_143 (BS), BRock_133 (BS), Beleetus_139 (BS), Fudan_137 (BS), Garnacho_133 (BS), GiJojo_132 (BS), LuckySocke_138 (BS), Park1214_141 (BS), Talos_142 (BS),

Start 260:
• Found in 6 of 2144 (0.3%) of genes in pham
• Manual Annotations of this start: 6 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adat_36 (AV), Brad_36 (AV), Casserole_35 (AV), GurgleFerb_36 (AV), Jasmine_38 (AV), Nellie_36 (AV),

Start 264:
• Found in 1 of 2144 (0.0%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LadyJasley_40 (AV),

Start 269:
• Found in 1 of 2144 (0.0%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shocker_43 (singleton),

Start 273:
• Found in 96 of 2144 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 1.0% of time when present
• Phage (with cluster) where this start called: PastaFagioli_43 (EB),

Start 276:
• Found in 66 of 2144 (3.1%) of genes in pham
• Manual Annotations of this start: 2 of 1913
• Called 3.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_88 (FC), Nirvana_71 (BM),

Start 277:
• Found in 9 of 2144 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 22.2% of time when present
• Phage (with cluster) where this start called: GalaxyEater_37 (AV), PigHeaded_40 (AV),

Start 285:
• Found in 118 of 2144 (5.5%) of genes in pham
• Manual Annotations of this start: 1 of 1913
• Called 5.1% of time when present
• Phage (with cluster) where this start called: Artu_91 (FC), BooTeria_89 (FC), Emmetator_91 (FC), KSunshine22_93 (FC), LeoJr_98 (FC), ReginaGlobina_98 (FC),

Start 294:
• Found in 14 of 2144 (0.7%) of genes in pham
• Manual Annotations of this start: 13 of 1913
• Called 92.9% of time when present
• Phage (with cluster) where this start called: BarnCat_62 (GB), Cassita_65 (GB), EhyElimayoE_67 (BM), Frankenweenie_74 (BM), JustBecause_62 (BM), Kela_63 (BM), Kradal_67 (BM), LeeroyJenkins_68 (GB), Lifes_61 (GB), Quantum_66 (BM), Sarkar_67 (BM), Satis_67 (BM), WaterT_64 (GB),

Start 296:
• Found in 19 of 2144 (0.9%) of genes in pham
• Manual Annotations of this start: 13 of 1913
• Called 84.2% of time when present
• Phage (with cluster) where this start called: Carostasia_37 (EA10), Chepli_40 (EA6), Cidela_36 (EA10), Fabyndrax_36 (EA10), Jemerald_40 (EA6), Juanyo_37 (EA10), Juicer_40 (EA6), KatChan_40 (EA6), Luna18_40 (EA6), Mandalorian_37 (EA10), MiniVolent_36 (EA10), Morrigan_40 (EA6), Nucci_37 (EA10), Quartz_38 (EA10), WilliamStrong_38 (EA6), YuuY_37 (EA10),

Start 297:
• Found in 22 of 2144 (1.0%) of genes in pham
• Manual Annotations of this start: 21 of 1913
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BouleyBill_36 (EA4), Bustleton_37 (EA4), Cheeto1_39 (EA9), ChickenKing_38 (EA9), GaeCeo_39 (EA9), Golden_37 (EA4), Guetzie_37 (EA4), HairyMan_35 (EA10), HerculesXL_37 (EA11), Jingles_37 (EA4), Kauala_37 (EA4), Kavo_36 (EA11), Koji_37 (EA4), Lucky3_37 (EA4), Pherbot_37 (EA4), PrincePhergus_37 (EA4), RenegadeRaider_39 (EA4), Schimmels22_37 (EA11), Schubert_36 (EA8), Sinatra_37 (EA4), SirVictor_37 (EA4), Tinyman4_37 (EA11),

Start 298:
• Found in 18 of 2144 (0.8%) of genes in pham
• Manual Annotations of this start: 15 of 1913
• Called 94.4% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_49 (BG), Asis_48 (BG), BabyGotBac_49 (BG), BayC_48 (BG), Casey_35 (EA3), Maih_47 (BG), Mischief19_57 (BG), Pajaza_35 (EA3), Penta_35 (EA11), Pikmin_35 (EA3), RainyPolka_49 (BG), Salete_48 (BG), Scissor2024_37 (EA11), TP1604_48 (BG), WestPM_35 (EA11), Xkcd426_52 (BG), YDN12_50 (BG),

Start 301:
• Found in 176 of 2144 (8.2%) of genes in pham
• Manual Annotations of this start: 153 of 1913
• Called 93.2% of time when present

• Phage (with cluster) where this start called: Acosta_40 (EA1), Agente005_39 (EA1), Alakazam_38 (EA5), AlexAdler_39 (EA1), Aleyra_39 (EA1), Alyxandracam_39 (EA1), Andromedas_38 (EA2), Anilorac_38 (EA1), Antoinette_39 (EA1), AranulaLuti_38 (EA1), Asta_38 (EA1), Aubergine_38 (EA1), AxiPup_39 (EA1), Baines_38 (EA1), Balsa_38 (EA1), Bandik_39 (EA1), BaronJohn_37 (EA5), BeautPeep30_39 (EA1), Benjalauren_39 (EA1), BigRedClifford_39 (EA1), Blage_39 (EA1), BonesMcCoy_39 (EA1), Bonino_38 (EA1), Byron23_39 (EA1), Calix_38 (EA1), CaptainRex_37 (EA5), CarisSwetlik_41 (EA1), ChikPic_38 (EA2), Christoph_38 (EA1), Clancy_38 (EA1), Clock_37 (EA5), ColaCorta_38 (EA2), Convict_39 (EA1), CoraRita_38 (EA1), Dave_39 (EA1), Delphidian_39 (EA1), Den3_39 (EA1), Dothraki_39 (EA1), Duocatuli_38 (EA1), Eleri_38 (EA2), Endor_39 (EA1), Erla_38 (EA1), Espinosa_38 (EA1), Etna_38 (EA1), Etta_38 (EA1), Exploradora_38 (EA1), FarmerDoug_38 (EA1), Figueroism_39 (EA1), Finny_38 (EA2), Fulton_37 (EA5), GardenB_38 (EA1), Gelo_38 (EA1), Gershwin_38 (EA1), Glamour_37 (EA2), GoingMerry_39 (EA1), GoneGirl_39 (EA1), GreenIvy_37 (EA5), Greys_39 (EA1), Gubbabump_38 (EA1), Hamlet_38 (EA1), HanSolo_38 (EA1), HankSprout_39 (EA1), Hasitha_37 (EA5), HavenFinLeoSun_40 (EA1), HungryHenry_38 (EA1), Ilzat_38 (EA1), Inventa_39 (EA1), Ixel_38 (EA11), Janus167_38 (EA1), JasperRussell_38 (EA1), Jenos_42 (EA1), Jerbirus_39 (EA1), JeriBeth_38 (EA1), Kale_38 (EA1), KannH_38 (EA1), KellyGreen_39 (EA1), KingJulien_38 (EA1), Klimt_38 (EA1), Knox_39 (EA1), Kouch_38 (EA1), Kurt1_39 (EA1), Leafus_38 (EA1), Librie_37 (EA5), LilTerminator_37 (EA5), Lovelyunicorn_39 (EA1), Ludgate_39 (EA1), MCubed_38 (EA2), MaeLinda_39 (EA1), ManRay_38 (EA1), Martin_40 (EA1), McGalleon_41 (EA1), Mercedes_34 (EA), Merida02_40 (EA1), MillyPhilly_39 (EA1), MonChoix_37 (EA1), MrWorldwide_39 (EA1), Nagem_39 (EA1), Nattles_38 (EA1), Nebulous_37 (EA5), Neferthena_38 (EA5), NickSell_39 (EA1), Oats_38 (EA1), OldNelly_39 (EA1), Orpington_39 (EA2), Oxtober96_39 (EA1), PSirce_38 (EA2), Papafritta_38 (EA1), ParleG_39 (EA1), Peep_39 (EA1), Peppino_38 (EA1), Phanita_38 (EA2), Pherferi_39 (EA1), Phiderman_39 (EA1), PhillyPhantom_38 (EA1), Phireproof_39 (EA1), PhredFlintston_39 (EA1), Phriends_39 (EA1), Pocket_38 (EA1), PuppyEggo_39 (EA1), QuadZero_37 (EA5), Raccoon_38 (EA1), Rapheph_39 (EA1), Raptor_39 (EA1), Redfield_38 (EA1), Riyhil_39 (EA1), Robinson_39 (EA1), Rog141_38 (EA1), RosieMae_38 (EA1), SJay_39 (EA1), Sansa_37 (EA2), Saratos_38 (EA2), Schnapsidee_38 (EA1), Sedgewig_38 (EA1), ShaiHulud_39 (EA1), Shamu_38 (EA2), Shee_39 (EA1), SoilGremlin_39 (EA1), SolidSnake_40 (EA1), Soror1_38 (EA1), Stanktossa_39 (EA1), StingRay_38 (EA1), StirfryIV_38 (EA1), Stormbreaker8_38 (EA1), Strathdee_39 (EA1), Superfresh_39 (EA1), Symere_38 (EA1), Teagan_39 (EA1), TeddyBear_38 (EA1), Tenda_38 (EA1), Thompsone_39 (EA1), Thorongil_39 (EA1), TinSulphur_39 (EA1), TwoBits_37 (EA5), Vafari_38 (EA5), Velene_39 (EA1), Vispistious_39 (EA1), Wardwill_39 (EA5), WildNOut_39 (EA1), Winzigespinne_38 (EA1), Xebius_38 (EA2), Zada_39 (EA1), Zayuliv_37 (EA5), Zenitsu_38 (EA2), Zepp_38 (EA5),

Start 305:
• Found in 146 of 2144 (6.8%) of genes in pham
• Manual Annotations of this start: 5 of 1913
• Called 3.4% of time when present
• Phage (with cluster) where this start called: BeeBee8_39 (EA1), Garey24_38 (EA1), Gargoyle_39 (EA1), Ioannes_39 (EA1), Renzie_39 (EA1),

Start 390:
• Found in 409 of 2144 (19.1%) of genes in pham
• No Manual Annotations of this start.

• Called 0.2% of time when present
• Phage (with cluster) where this start called: Laure_103 (UNK),

Summary by clusters:

There are 91 clusters represented in this pham: BG, BL, BM, FR, BJ, BT, JN, BS, GC, GB, EA11, EA10, B4, B5, B6, B7, B1, B2, B3, B8, B9, EH, EK, EA, EB, EP, EA9, EM1, EM2, FP, GD1, GD2, GD3, GD4, FC, B12, B13, B10, B11, FJ, EA2, BB2, BB1, CA, CD, UNK, A20, A21, A22, singleton, EK2, EK1, DK, DR, DS, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, AI, AQ, EA8, AV, EA1, EA3, AZ, EA5, EA4, EA6, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster A1:
•Start number 228 was manually annotated 228 times for cluster A1.

Info for manual annotations of cluster A10:
•Start number 228 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 228 was manually annotated 27 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 228 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:
•Start number 228 was manually annotated 5 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 228 was manually annotated 25 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 228 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 228 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 228 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 227 was manually annotated 5 times for cluster A2.
•Start number 228 was manually annotated 101 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 228 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:
•Start number 228 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:

•Start number 228 was manually annotated 121 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 228 was manually annotated 143 times for cluster A4.

Info for manual annotations of cluster A5:
•Start number 195 was manually annotated 2 times for cluster A5.
•Start number 228 was manually annotated 37 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 200 was manually annotated 1 time for cluster A6.
•Start number 228 was manually annotated 47 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 228 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A8:
•Start number 228 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 227 was manually annotated 2 times for cluster A9.
•Start number 228 was manually annotated 36 times for cluster A9.

Info for manual annotations of cluster AI:
•Start number 228 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster AQ:
•Start number 213 was manually annotated 13 times for cluster AQ.

Info for manual annotations of cluster AV:
•Start number 228 was manually annotated 1 time for cluster AV.
•Start number 260 was manually annotated 6 times for cluster AV.
•Start number 264 was manually annotated 1 time for cluster AV.
•Start number 277 was manually annotated 1 time for cluster AV.

Info for manual annotations of cluster AZ:
•Start number 228 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 122 was manually annotated 1 time for cluster AZ1.
•Start number 162 was manually annotated 1 time for cluster AZ1.
•Start number 228 was manually annotated 47 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 135 was manually annotated 1 time for cluster AZ2.
•Start number 228 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 228 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 228 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 227 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 228 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster B1:
•Start number 173 was manually annotated 1 time for cluster B1.
•Start number 190 was manually annotated 295 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 176 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 184 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 182 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 215 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 190 was manually annotated 36 times for cluster B2.
•Start number 232 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:
•Start number 228 was manually annotated 5 times for cluster B3.
•Start number 230 was manually annotated 48 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 159 was manually annotated 2 times for cluster B4.
•Start number 163 was manually annotated 4 times for cluster B4.
•Start number 177 was manually annotated 1 time for cluster B4.
•Start number 182 was manually annotated 21 times for cluster B4.
•Start number 186 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:
•Start number 182 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 184 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:
•Start number 193 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 217 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 190 was manually annotated 5 times for cluster B9.
•Start number 195 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster BB1:
•Start number 228 was manually annotated 6 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 228 was manually annotated 3 times for cluster BB2.

Info for manual annotations of cluster BG:
•Start number 298 was manually annotated 11 times for cluster BG.

Info for manual annotations of cluster BJ:
•Start number 228 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BL:
•Start number 228 was manually annotated 3 times for cluster BL.

Info for manual annotations of cluster BM:
•Start number 276 was manually annotated 1 time for cluster BM.
•Start number 294 was manually annotated 8 times for cluster BM.

Info for manual annotations of cluster BS:
•Start number 255 was manually annotated 8 times for cluster BS.

Info for manual annotations of cluster BT:
•Start number 228 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster CA:
•Start number 228 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster CD:
•Start number 11 was manually annotated 3 times for cluster CD.
•Start number 15 was manually annotated 2 times for cluster CD.
•Start number 16 was manually annotated 1 time for cluster CD.
•Start number 152 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DK:
•Start number 228 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DR:
•Start number 221 was manually annotated 5 times for cluster DR.
•Start number 224 was manually annotated 1 time for cluster DR.
•Start number 225 was manually annotated 16 times for cluster DR.
•Start number 232 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster DS:
•Start number 229 was manually annotated 1 time for cluster DS.
•Start number 230 was manually annotated 4 times for cluster DS.

Info for manual annotations of cluster EA:
•Start number 301 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:
•Start number 215 was manually annotated 1 time for cluster EA1.

•Start number 241 was manually annotated 3 times for cluster EA1.
•Start number 243 was manually annotated 1 time for cluster EA1.
•Start number 301 was manually annotated 122 times for cluster EA1.
•Start number 305 was manually annotated 5 times for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 296 was manually annotated 6 times for cluster EA10.
•Start number 297 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 297 was manually annotated 4 times for cluster EA11.
•Start number 298 was manually annotated 1 time for cluster EA11.
•Start number 301 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:
•Start number 301 was manually annotated 13 times for cluster EA2.

Info for manual annotations of cluster EA3:
•Start number 298 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 297 was manually annotated 12 times for cluster EA4.

Info for manual annotations of cluster EA5:
•Start number 301 was manually annotated 16 times for cluster EA5.

Info for manual annotations of cluster EA6:
•Start number 296 was manually annotated 7 times for cluster EA6.

Info for manual annotations of cluster EA8:
•Start number 297 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 297 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EB:
•Start number 215 was manually annotated 7 times for cluster EB.
•Start number 217 was manually annotated 67 times for cluster EB.
•Start number 219 was manually annotated 3 times for cluster EB.
•Start number 228 was manually annotated 5 times for cluster EB.
•Start number 273 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster EH:
•Start number 227 was manually annotated 10 times for cluster EH.
•Start number 228 was manually annotated 5 times for cluster EH.

Info for manual annotations of cluster EK:
•Start number 163 was manually annotated 3 times for cluster EK.

Info for manual annotations of cluster EK1:
•Start number 161 was manually annotated 11 times for cluster EK1.
•Start number 163 was manually annotated 9 times for cluster EK1.
•Start number 172 was manually annotated 2 times for cluster EK1.

•Start number 176 was manually annotated 5 times for cluster EK1.

Info for manual annotations of cluster EK2:
•Start number 161 was manually annotated 10 times for cluster EK2.
•Start number 163 was manually annotated 13 times for cluster EK2.

Info for manual annotations of cluster EM1:
•Start number 145 was manually annotated 7 times for cluster EM1.

Info for manual annotations of cluster EM2:
•Start number 166 was manually annotated 1 time for cluster EM2.

Info for manual annotations of cluster EP:
•Start number 172 was manually annotated 5 times for cluster EP.
•Start number 173 was manually annotated 2 times for cluster EP.

Info for manual annotations of cluster FC:
•Start number 233 was manually annotated 1 time for cluster FC.
•Start number 238 was manually annotated 11 times for cluster FC.
•Start number 276 was manually annotated 1 time for cluster FC.
•Start number 285 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster FP:
•Start number 228 was manually annotated 6 times for cluster FP.

Info for manual annotations of cluster FR:
•Start number 214 was manually annotated 2 times for cluster FR.
•Start number 221 was manually annotated 9 times for cluster FR.

Info for manual annotations of cluster GB:
•Start number 294 was manually annotated 5 times for cluster GB.

Info for manual annotations of cluster GC:
•Start number 194 was manually annotated 4 times for cluster GC.

Info for manual annotations of cluster GD1:
•Start number 222 was manually annotated 2 times for cluster GD1.
•Start number 233 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 223 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 222 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 223 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster JN:
•Start number 226 was manually annotated 1 time for cluster JN.
•Start number 228 was manually annotated 1 time for cluster JN.

Gene Information:

Gene: 20ES_45 Start: 31266, Stop: 29479, Start Num: 228
Candidate Starts for 20ES_45:
(37, 31683), (Start: 228 @31266 has 960 MA's), (360, 31062), (362, 31059), (366, 31053), (375, 31038), (384, 31023), (399, 30990), (400, 30987), (410, 30960), (424, 30933), (435, 30912), (448, 30882), (490, 30780), (570, 30687), (573, 30678), (590, 30639), (595, 30630), (607, 30615), (643, 30549), (686, 30468), (707, 30420), (709, 30414), (742, 30351), (778, 30276), (803, 30195), (835, 30111), (836, 30108), (855, 30042), (871, 30003), (895, 29982), (924, 29907), (931, 29889), (935, 29877), (949, 29844), (958, 29817), (982, 29781), (992, 29763), (1009, 29727), (1013, 29703), (1038, 29646), (1042, 29625), (1066, 29568), (1073, 29556), (1079, 29547),

Gene: 39HC_051 Start: 52288, Stop: 50447, Start Num: 184
Candidate Starts for 39HC_051:
(62, 52552), (68, 52537), (Start: 184 @52288 has 3 MA's), (249, 52231), (261, 52216), (362, 52042), (390, 51991), (391, 51988), (399, 51967), (416, 51916), (419, 51910), (435, 51892), (452, 51850), (457, 51847), (467, 51817), (552, 51724), (569, 51688), (573, 51676), (633, 51562), (648, 51538), (649, 51535), (750, 51304), (776, 51235), (780, 51217), (787, 51199), (804, 51142), (846, 51034), (848, 51028), (851, 51019), (875, 50956), (900, 50920), (901, 50917), (906, 50902), (939, 50824), (946, 50812), (953, 50791), (954, 50785), (976, 50752), (992, 50722), (1002, 50707), (1009, 50686), (1013, 50662), (1024, 50638), (1040, 50599), (1041, 50587), (1042, 50584), (1043, 50581), (1047, 50569), (1059, 50545), (1093, 50473),

Gene: 40AC_46 Start: 33055, Stop: 30977, Start Num: 72
Candidate Starts for 40AC_46:
(72, 33055), (110, 32941), (Start: 228 @32764 has 960 MA's), (360, 32560), (366, 32551), (384, 32521), (399, 32488), (400, 32485), (410, 32458), (424, 32431), (490, 32278), (570, 32185), (573, 32176), (595, 32128), (607, 32113), (643, 32047), (707, 31918), (709, 31912), (744, 31846), (803, 31693), (823, 31642), (836, 31606), (840, 31597), (855, 31540), (871, 31501), (895, 31480), (900, 31459), (949, 31342), (1010, 31222), (1038, 31144), (1042, 31123), (1066, 31066), (1073, 31054), (1079, 31045),

Gene: 40BC_051 Start: 52288, Stop: 50447, Start Num: 184
Candidate Starts for 40BC_051:
(62, 52552), (68, 52537), (Start: 184 @52288 has 3 MA's), (249, 52231), (261, 52216), (362, 52042), (390, 51991), (391, 51988), (399, 51967), (416, 51916), (419, 51910), (435, 51892), (452, 51850), (457, 51847), (467, 51817), (552, 51724), (569, 51688), (573, 51676), (633, 51562), (648, 51538), (649, 51535), (750, 51304), (776, 51235), (780, 51217), (787, 51199), (804, 51142), (846, 51034), (848, 51028), (851, 51019), (875, 50956), (900, 50920), (901, 50917), (906, 50902), (939, 50824), (946, 50812), (953, 50791), (954, 50785), (976, 50752), (992, 50722), (1002, 50707), (1009, 50686), (1013, 50662), (1024, 50638), (1040, 50599), (1041, 50587), (1042, 50584), (1043, 50581), (1047, 50569), (1059, 50545), (1093, 50473),

Gene: A3Wally_117 Start: 81842, Stop: 79962, Start Num: 222
Candidate Starts for A3Wally_117:
(Start: 177 @81905 has 1 MA's), (Start: 215 @81851 has 12 MA's), (Start: 222 @81842 has 3 MA's), (Start: 233 @81830 has 2 MA's), (346, 81632), (362, 81605), (390, 81566), (413, 81503), (429, 81485), (439, 81458), (442, 81452), (493, 81344), (573, 81266), (581, 81245), (596, 81212), (613, 81182), (626, 81155), (660, 81095), (712, 80990), (729, 80957), (767, 80888), (769, 80879), (803, 80768), (843, 80654), (869, 80570), (877, 80555), (919, 80444), (922, 80438), (926, 80426), (932, 80411),

(983, 80300), (1013, 80210), (1032, 80171), (1036, 80159), (1042, 80132), (1066, 80075), (1083, 80051),

Gene: A6_41 Start: 33551, Stop: 31725, Start Num: 228
Candidate Starts for A6_41:
(Start: 228 @33551 has 960 MA's), (366, 33338), (373, 33323), (399, 33275), (410, 33245), (418, 33224), (424, 33218), (430, 33209), (462, 33125), (465, 33116), (479, 33092), (490, 33065), (570, 32972), (576, 32957), (583, 32936), (590, 32924), (621, 32873), (622, 32870), (654, 32816), (659, 32804), (680, 32774), (690, 32744), (709, 32699), (729, 32660), (803, 32480), (821, 32432), (836, 32393), (855, 32327), (871, 32288), (895, 32267), (900, 32246), (906, 32228), (935, 32162), (1009, 32012), (1010, 32009), (1018, 31973), (1032, 31949), (1035, 31940), (1039, 31928), (1066, 31853), (1079, 31832),

Gene: ABU_61 Start: 54532, Stop: 52673, Start Num: 190
Candidate Starts for ABU_61:
(Start: 173 @54556 has 3 MA's), (Start: 190 @54532 has 336 MA's), (Start: 222 @54508 has 3 MA's), (Start: 232 @54502 has 2 MA's), (261, 54460), (274, 54439), (336, 54325), (339, 54319), (355, 54289), (390, 54229), (398, 54208), (416, 54154), (429, 54142), (436, 54124), (440, 54112), (487, 54007), (552, 53950), (569, 53914), (573, 53902), (585, 53875), (601, 53848), (611, 53830), (622, 53812), (643, 53773), (648, 53764), (649, 53761), (761, 53503), (796, 53401), (804, 53368), (812, 53347), (848, 53254), (851, 53245), (877, 53182), (900, 53146), (901, 53143), (906, 53128), (939, 53050), (946, 53038), (953, 53017), (976, 52978), (1013, 52888), (1022, 52870), (1024, 52864), (1032, 52849), (1040, 52825), (1042, 52810), (1043, 52807), (1047, 52795), (1059, 52771), (1082, 52723), (1093, 52699),

Gene: ACFishhook_47 Start: 31825, Stop: 30011, Start Num: 228
Candidate Starts for ACFishhook_47:
(Start: 228 @31825 has 960 MA's), (257, 31786), (263, 31774), (360, 31621), (369, 31606), (399, 31549), (424, 31492), (430, 31483), (448, 31441), (465, 31390), (490, 31339), (570, 31246), (590, 31198), (607, 31174), (626, 31135), (643, 31108), (659, 31078), (703, 30985), (709, 30973), (732, 30925), (742, 30910), (803, 30754), (823, 30703), (835, 30670), (836, 30667), (855, 30601), (871, 30562), (901, 30490), (919, 30451), (929, 30427), (935, 30409), (949, 30376), (992, 30295), (1013, 30235), (1022, 30217), (1042, 30157), (1045, 30148), (1066, 30100), (1073, 30088), (1079, 30079),

Gene: AEgle_37 Start: 28789, Stop: 30654, Start Num: 228
Candidate Starts for AEgle_37:
(Start: 228 @28789 has 960 MA's), (261, 28837), (360, 28993), (418, 29107), (452, 29176), (572, 29383), (576, 29392), (622, 29482), (626, 29491), (633, 29506), (643, 29518), (660, 29551), (707, 29644), (733, 29701), (768, 29782), (803, 29902), (815, 29932), (836, 29989), (853, 30046), (855, 30055), (898, 30148), (929, 30220), (932, 30229), (977, 30328), (1009, 30391), (1058, 30526), (1066, 30550), (1071, 30559), (1107, 30637),

Gene: AFIS_43 Start: 34331, Stop: 32502, Start Num: 228
Candidate Starts for AFIS_43:
(Start: 228 @34331 has 960 MA's), (366, 34118), (399, 34055), (410, 34025), (418, 34004), (424, 33998), (430, 33989), (479, 33872), (490, 33845), (570, 33752), (576, 33737), (590, 33704), (621, 33653), (622, 33650), (654, 33596), (659, 33584), (680, 33554), (690, 33524), (709, 33479), (729, 33440), (803, 33260), (821, 33212), (840, 33164), (851, 33125), (855, 33107), (871, 33068), (895, 33047), (900, 33026), (905, 33011), (955, 32888), (977, 32855), (1036, 32717), (1041, 32693), (1062, 32645), (1066, 32633), (1079, 32612), (1083, 32606), (1102, 32558), (1109, 32543),

Gene: AGrandiflora_42 Start: 30069, Stop: 31934, Start Num: 228
Candidate Starts for AGrandiflora_42:

(Start: 228 @30069 has 960 MA's), (261, 30117), (317, 30207), (321, 30213), (410, 30366), (452, 30456), (572, 30663), (576, 30672), (622, 30762), (626, 30771), (633, 30786), (660, 30831), (686, 30876), (707, 30924), (733, 30981), (768, 31062), (795, 31149), (803, 31182), (815, 31212), (836, 31269), (855, 31335), (867, 31359), (898, 31428), (929, 31500), (932, 31509), (977, 31608), (1009, 31671), (1013, 31695), (1058, 31806), (1066, 31830), (1071, 31839),

Gene: AN3_45 Start: 31646, Stop: 29859, Start Num: 228
Candidate Starts for AN3_45:
(Start: 228 @31646 has 960 MA's), (360, 31442), (362, 31439), (366, 31433), (375, 31418), (384, 31403), (399, 31370), (400, 31367), (410, 31340), (424, 31313), (435, 31292), (448, 31262), (490, 31160), (570, 31067), (573, 31058), (590, 31019), (595, 31010), (607, 30995), (643, 30929), (686, 30848), (707, 30800), (709, 30794), (778, 30656), (803, 30575), (823, 30524), (835, 30491), (836, 30488), (855, 30422), (871, 30383), (895, 30362), (924, 30287), (931, 30269), (949, 30224), (958, 30197), (982, 30161), (992, 30143), (1009, 30107), (1013, 30083), (1038, 30026), (1066, 29948), (1073, 29936), (1079, 29927),

Gene: AN9_48 Start: 31569, Stop: 29770, Start Num: 228
Candidate Starts for AN9_48:
(Start: 228 @31569 has 960 MA's), (360, 31365), (399, 31290), (400, 31287), (410, 31260), (415, 31245), (424, 31233), (448, 31182), (490, 31080), (570, 30987), (573, 30978), (590, 30939), (595, 30930), (643, 30849), (660, 30816), (680, 30789), (729, 30675), (742, 30651), (803, 30486), (821, 30438), (836, 30399), (847, 30363), (855, 30333), (871, 30294), (895, 30273), (935, 30168), (949, 30135), (982, 30072), (1009, 30018), (1013, 29994), (1066, 29859), (1073, 29847), (1079, 29838),

Gene: ANI8_48 Start: 31569, Stop: 29770, Start Num: 228
Candidate Starts for ANI8_48:
(Start: 228 @31569 has 960 MA's), (360, 31365), (399, 31290), (400, 31287), (410, 31260), (415, 31245), (424, 31233), (448, 31182), (490, 31080), (570, 30987), (573, 30978), (590, 30939), (595, 30930), (643, 30849), (660, 30816), (680, 30789), (729, 30675), (742, 30651), (803, 30486), (821, 30438), (836, 30399), (847, 30363), (855, 30333), (871, 30294), (895, 30273), (935, 30168), (949, 30135), (982, 30072), (1009, 30018), (1013, 29994), (1066, 29859), (1073, 29847), (1079, 29838),

Gene: AbbeyMikolon_44 Start: 30256, Stop: 32121, Start Num: 228
Candidate Starts for AbbeyMikolon_44:
(Start: 228 @30256 has 960 MA's), (261, 30304), (Start: 273 @30325 has 1 MA's), (321, 30400), (386, 30502), (409, 30559), (410, 30562), (411, 30565), (442, 30628), (448, 30640), (583, 30868), (595, 30889), (607, 30910), (626, 30949), (633, 30964), (635, 30967), (637, 30970), (664, 31015), (681, 31036), (686, 31054), (690, 31063), (707, 31102), (719, 31132), (722, 31144), (745, 31207), (784, 31324), (803, 31384), (821, 31432), (836, 31471), (845, 31501), (855, 31537), (879, 31591), (901, 31639), (929, 31702), (973, 31801), (977, 31810), (1006, 31861), (1024, 31921), (1033, 31939), (1058, 32008), (1066, 32032), (1083, 32059),

Gene: AbbyPaige_46 Start: 31676, Stop: 29889, Start Num: 228
Candidate Starts for AbbyPaige_46:
(147, 31763), (Start: 228 @31676 has 960 MA's), (362, 31469), (366, 31463), (375, 31448), (384, 31433), (400, 31397), (410, 31370), (424, 31343), (435, 31322), (490, 31190), (570, 31097), (590, 31049), (595, 31040), (607, 31025), (643, 30959), (686, 30878), (707, 30830), (709, 30824), (742, 30761), (803, 30605), (823, 30554), (835, 30521), (836, 30518), (855, 30452), (871, 30413), (895, 30392), (924, 30317), (929, 30305), (949, 30254), (982, 30191), (992, 30173), (1009, 30137), (1013, 30113), (1042, 30035), (1066, 29978), (1073, 29966), (1079, 29957),

Gene: AbbysRanger_44 Start: 31536, Stop: 29707, Start Num: 228
Candidate Starts for AbbysRanger_44:

(Start: 228 @31536 has 960 MA's), (263, 31485), (278, 31455), (384, 31293), (394, 31275), (399, 31260), (424, 31203), (430, 31194), (480, 31074), (490, 31050), (544, 31008), (570, 30957), (592, 30909), (607, 30888), (626, 30849), (654, 30804), (657, 30798), (696, 30717), (707, 30696), (729, 30651), (798, 30486), (803, 30465), (855, 30312), (871, 30273), (901, 30201), (906, 30186), (919, 30162), (926, 30144), (929, 30138), (931, 30132), (1013, 29931), (1066, 29796), (1073, 29784), (1079, 29775),

Gene: Abbyshoes_47 Start: 34766, Stop: 32937, Start Num: 228
Candidate Starts for Abbyshoes_47:
(Start: 228 @34766 has 960 MA's), (366, 34553), (373, 34538), (399, 34490), (410, 34460), (418, 34439), (424, 34433), (430, 34424), (479, 34307), (490, 34280), (570, 34187), (576, 34172), (621, 34088), (622, 34085), (659, 34019), (680, 33989), (690, 33959), (709, 33914), (729, 33875), (803, 33695), (821, 33647), (840, 33599), (851, 33560), (855, 33542), (871, 33503), (895, 33482), (900, 33461), (905, 33446), (955, 33323), (1036, 33152), (1041, 33128), (1062, 33080), (1066, 33068), (1079, 33047), (1083, 33041), (1102, 32993), (1109, 32978),

Gene: Abdiel_45 Start: 31571, Stop: 29745, Start Num: 228
Candidate Starts for Abdiel_45:
(Start: 228 @31571 has 960 MA's), (Start: 241 @31550 has 3 MA's), (263, 31520), (278, 31490), (384, 31328), (394, 31310), (424, 31238), (430, 31229), (480, 31109), (490, 31085), (570, 30992), (592, 30944), (607, 30923), (626, 30884), (696, 30752), (707, 30731), (729, 30686), (733, 30674), (798, 30521), (803, 30500), (847, 30377), (855, 30347), (871, 30308), (900, 30242), (901, 30239), (906, 30224), (919, 30200), (929, 30176), (1013, 29969), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: Abigail_42 Start: 29285, Stop: 31159, Start Num: 217
Candidate Starts for Abigail_42:
(Start: 215 @29282 has 12 MA's), (Start: 217 @29285 has 68 MA's), (Start: 273 @29354 has 1 MA's), (Start: 285 @29375 has 1 MA's), (430, 29621), (448, 29663), (626, 29957), (741, 30191), (784, 30314), (803, 30374), (806, 30380), (823, 30425), (830, 30440), (833, 30455), (845, 30491), (855, 30527), (898, 30620), (936, 30713), (973, 30791), (1009, 30863), (1010, 30866), (1018, 30902), (1038, 30944), (1041, 30962), (1058, 30998), (1066, 31022), (1079, 31043),

Gene: Abinghost_58 Start: 53637, Stop: 51820, Start Num: 230
Candidate Starts for Abinghost_58:
(110, 53820), (Start: 230 @53637 has 52 MA's), (249, 53607), (366, 53427), (435, 53274), (439, 53262), (452, 53232), (458, 53226), (487, 53163), (489, 53157), (552, 53106), (569, 53070), (590, 53022), (649, 52917), (694, 52821), (722, 52770), (775, 52626), (787, 52587), (797, 52557), (804, 52530), (810, 52518), (846, 52422), (848, 52416), (851, 52407), (854, 52395), (883, 52323), (900, 52293), (906, 52275), (912, 52266), (939, 52197), (946, 52185), (953, 52164), (992, 52095), (1002, 52080), (1010, 52056), (1013, 52035), (1022, 52017), (1024, 52011), (1038, 51978), (1040, 51972), (1043, 51954), (1047, 51942), (1054, 51930), (1059, 51918), (1078, 51876), (1093, 51846),

Gene: Abrogate_440 Start: 35018, Stop: 33189, Start Num: 228
Candidate Starts for Abrogate_440:
(Start: 228 @35018 has 960 MA's), (366, 34805), (373, 34790), (410, 34712), (418, 34691), (424, 34685), (430, 34676), (462, 34592), (479, 34559), (490, 34532), (570, 34439), (576, 34424), (583, 34403), (590, 34391), (621, 34340), (622, 34337), (659, 34271), (680, 34241), (690, 34211), (709, 34166), (729, 34127), (803, 33947), (821, 33899), (840, 33851), (851, 33812), (855, 33794), (871, 33755), (895, 33734), (900, 33713), (905, 33698), (955, 33575), (1036, 33404), (1041, 33380), (1062, 33332), (1066, 33320), (1079, 33299), (1083, 33293), (1102, 33245), (1109, 33230),

Gene: AbsoluteMadLad_61 Start: 54486, Stop: 52627, Start Num: 190
Candidate Starts for AbsoluteMadLad_61:

(Start: 173 @54510 has 3 MA's), (Start: 190 @54486 has 336 MA's), (Start: 222 @54462 has 3 MA's), (Start: 232 @54456 has 2 MA's), (261, 54414), (274, 54393), (336, 54279), (339, 54273), (355, 54243), (390, 54183), (398, 54162), (416, 54108), (429, 54096), (436, 54078), (440, 54066), (487, 53961), (552, 53904), (569, 53868), (573, 53856), (583, 53832), (590, 53820), (601, 53802), (611, 53784), (622, 53766), (643, 53727), (648, 53718), (649, 53715), (651, 53712), (796, 53355), (804, 53322), (812, 53301), (848, 53208), (851, 53199), (877, 53136), (900, 53100), (901, 53097), (906, 53082), (939, 53004), (946, 52992), (953, 52971), (976, 52932), (1013, 52842), (1022, 52824), (1024, 52818), (1032, 52803), (1040, 52779), (1042, 52764), (1043, 52761), (1047, 52749), (1059, 52725), (1082, 52677), (1093, 52653),

Gene: Abt2graduatex2_49 Start: 39647, Stop: 37638, Start Num: 298
Candidate Starts for Abt2graduatex2_49:
(236, 39737), (245, 39722), (Start: 298 @39647 has 15 MA's), (319, 39605), (409, 39446), (411, 39440), (413, 39434), (439, 39374), (451, 39347), (486, 39263), (524, 39122), (555, 39044), (609, 38930), (616, 38921), (625, 38906), (631, 38894), (639, 38882), (656, 38852), (679, 38813), (733, 38666), (781, 38561), (786, 38549), (787, 38546), (806, 38489), (814, 38468), (828, 38426), (838, 38396), (856, 38330), (861, 38309), (864, 38303), (867, 38291), (874, 38267), (883, 38237), (891, 38210), (919, 38126), (926, 38108), (929, 38102), (931, 38096), (936, 38081), (939, 38072), (995, 37940), (1009, 37895), (1013, 37871), (1014, 37868), (1039, 37814), (1042, 37796), (1058, 37763), (1066, 37739), (1079, 37718), (1092, 37691),

Gene: Acadian_58 Start: 54470, Stop: 52644, Start Num: 182
Candidate Starts for Acadian_58:
(Start: 182 @54470 has 33 MA's), (249, 54416), (293, 54356), (364, 54245), (390, 54197), (436, 54095), (457, 54053), (472, 54017), (487, 53987), (569, 53894), (573, 53882), (583, 53858), (590, 53846), (601, 53828), (635, 53765), (649, 53741), (701, 53636), (776, 53447), (780, 53429), (787, 53411), (797, 53381), (804, 53354), (846, 53246), (848, 53240), (851, 53231), (856, 53210), (883, 53147), (901, 53114), (906, 53099), (933, 53039), (939, 53021), (946, 53009), (953, 52988), (955, 52979), (957, 52976), (1013, 52859), (1024, 52835), (1040, 52796), (1042, 52781), (1043, 52778), (1054, 52754), (1059, 52742), (1060, 52739), (1083, 52691), (1093, 52670),

Gene: AceofSpades_46 Start: 30731, Stop: 32593, Start Num: 228
Candidate Starts for AceofSpades_46:
(148, 30632), (160, 30650), (Start: 228 @30731 has 960 MA's), (261, 30779), (399, 30998), (442, 31094), (565, 31301), (579, 31340), (626, 31430), (660, 31490), (686, 31535), (707, 31583), (745, 31667), (803, 31841), (815, 31871), (845, 31958), (847, 31964), (898, 32087), (901, 32096), (945, 32198), (1013, 32354), (1024, 32378), (1066, 32489),

Gene: Achebe_43 Start: 31519, Stop: 29690, Start Num: 228
Candidate Starts for Achebe_43:
(Start: 228 @31519 has 960 MA's), (263, 31468), (278, 31438), (384, 31276), (394, 31258), (399, 31243), (424, 31186), (430, 31177), (480, 31057), (490, 31033), (544, 30991), (570, 30940), (592, 30892), (607, 30871), (626, 30832), (654, 30787), (657, 30781), (696, 30700), (707, 30679), (729, 30634), (798, 30469), (803, 30448), (855, 30295), (871, 30256), (901, 30184), (906, 30169), (919, 30145), (926, 30127), (929, 30121), (931, 30115), (1013, 29914), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: Acme_47 Start: 34868, Stop: 33042, Start Num: 228
Candidate Starts for Acme_47:
(Start: 228 @34868 has 960 MA's), (366, 34655), (373, 34640), (399, 34592), (410, 34562), (418, 34541), (424, 34535), (430, 34526), (479, 34409), (490, 34382), (570, 34289), (576, 34274), (590, 34241), (621, 34190), (622, 34187), (659, 34121), (680, 34091), (690, 34061), (709, 34016), (729, 33977), (803, 33797), (815, 33767), (821, 33749), (836, 33710), (855, 33644), (900, 33563), (901,

33560), (935, 33479), (1009, 33329), (1010, 33326), (1018, 33290), (1032, 33266), (1035, 33257), (1039, 33245), (1066, 33170), (1079, 33149),

Gene: Acolyte_41 Start: 30968, Stop: 29181, Start Num: 228
Candidate Starts for Acolyte_41:
(Start: 228 @30968 has 960 MA's), (362, 30761), (366, 30755), (375, 30740), (384, 30725), (399, 30692), (400, 30689), (410, 30662), (424, 30635), (490, 30482), (570, 30389), (573, 30380), (590, 30341), (595, 30332), (607, 30317), (643, 30251), (668, 30206), (686, 30170), (707, 30122), (803, 29897), (815, 29867), (823, 29846), (855, 29744), (895, 29684), (900, 29663), (906, 29645), (992, 29465), (1009, 29429), (1013, 29405), (1038, 29348), (1066, 29270), (1073, 29258), (1079, 29249),

Gene: Acosta_40 Start: 29335, Stop: 27470, Start Num: 301
Candidate Starts for Acosta_40:
(Start: 241 @29422 has 3 MA's), (Start: 243 @29419 has 1 MA's), (Start: 301 @29335 has 153 MA's), (Start: 305 @29326 has 5 MA's), (435, 29059), (439, 29047), (442, 29041), (586, 28759), (590, 28747), (607, 28717), (614, 28702), (618, 28696), (623, 28684), (701, 28528), (706, 28513), (726, 28468), (847, 28153), (855, 28123), (873, 28081), (908, 27994), (924, 27949), (974, 27835), (992, 27796), (1010, 27736), (1013, 27712), (1014, 27709), (1015, 27706), (1028, 27673), (1040, 27640), (1044, 27628),

Gene: Adahisdi_44 Start: 34346, Stop: 32520, Start Num: 228
Candidate Starts for Adahisdi_44:
(Start: 228 @34346 has 960 MA's), (366, 34133), (373, 34118), (410, 34040), (418, 34019), (424, 34013), (430, 34004), (479, 33887), (490, 33860), (570, 33767), (576, 33752), (621, 33668), (622, 33665), (659, 33599), (680, 33569), (690, 33539), (709, 33494), (729, 33455), (803, 33275), (815, 33245), (821, 33227), (823, 33224), (836, 33188), (855, 33122), (900, 33041), (901, 33038), (935, 32957), (1009, 32807), (1010, 32804), (1018, 32768), (1032, 32744), (1035, 32735), (1039, 32723), (1045, 32696), (1066, 32648), (1079, 32627),

Gene: Adat_36 Start: 31889, Stop: 30144, Start Num: 260
Candidate Starts for Adat_36:
(Start: 241 @31916 has 3 MA's), (Start: 260 @31889 has 6 MA's), (262, 31886), (Start: 277 @31853 has 1 MA's), (280, 31847), (337, 31754), (357, 31721), (374, 31694), (441, 31559), (536, 31430), (539, 31424), (556, 31400), (563, 31385), (573, 31358), (585, 31328), (626, 31247), (630, 31238), (664, 31178), (680, 31157), (735, 31043), (744, 31025), (872, 30647), (880, 30629), (921, 30563), (926, 30548), (1018, 30329), (1036, 30287), (1066, 30203), (1087, 30170),

Gene: Adelaide_42 Start: 32290, Stop: 34272, Start Num: 172
Candidate Starts for Adelaide_42:
(81, 32098), (132, 32233), (Start: 172 @32290 has 7 MA's), (Start: 186 @32305 has 1 MA's), (191, 32311), (274, 32425), (321, 32491), (386, 32608), (442, 32758), (495, 32887), (503, 32905), (508, 32923), (565, 33097), (570, 33112), (657, 33190), (675, 33223), (741, 33403), (770, 33472), (809, 33598), (841, 33700), (844, 33709), (849, 33724), (890, 33877), (927, 33973), (934, 33994), (981, 34093), (1013, 34192),

Gene: Adolin_40 Start: 27791, Stop: 29701, Start Num: 228
Candidate Starts for Adolin_40:
(Start: 228 @27791 has 960 MA's), (261, 27839), (410, 28088), (452, 28178), (572, 28430), (576, 28439), (626, 28538), (633, 28553), (677, 28622), (707, 28691), (768, 28829), (803, 28949), (815, 28979), (828, 29012), (836, 29036), (855, 29102), (917, 29237), (929, 29267), (1009, 29438), (1022, 29480), (1036, 29513), (1066, 29597), (1071, 29606), (1079, 29618),

Gene: Adriana_62 Start: 55113, Stop: 53254, Start Num: 190

Candidate Starts for Adriana_62:
(Start: 173 @55137 has 3 MA's), (Start: 190 @55113 has 336 MA's), (Start: 222 @55089 has 3 MA's), (Start: 232 @55083 has 2 MA's), (261, 55041), (274, 55020), (336, 54906), (339, 54900), (355, 54870), (390, 54810), (398, 54789), (416, 54735), (429, 54723), (436, 54705), (440, 54693), (487, 54588), (552, 54531), (569, 54495), (573, 54483), (585, 54456), (590, 54447), (611, 54411), (643, 54354), (648, 54345), (649, 54342), (651, 54339), (796, 53982), (804, 53949), (812, 53928), (848, 53835), (851, 53826), (877, 53763), (900, 53727), (901, 53724), (906, 53709), (939, 53631), (946, 53619), (953, 53598), (976, 53559), (1013, 53469), (1022, 53451), (1024, 53445), (1032, 53430), (1040, 53406), (1042, 53391), (1043, 53388), (1047, 53376), (1059, 53352), (1082, 53304), (1093, 53280),

Gene: Adumb2043_38 Start: 28808, Stop: 30673, Start Num: 228
Candidate Starts for Adumb2043_38:
(Start: 228 @28808 has 960 MA's), (261, 28856), (360, 29012), (399, 29075), (418, 29126), (452, 29195), (572, 29402), (622, 29501), (626, 29510), (633, 29525), (643, 29537), (660, 29570), (707, 29663), (733, 29720), (768, 29801), (803, 29921), (815, 29951), (836, 30008), (853, 30065), (855, 30074), (898, 30167), (929, 30239), (932, 30248), (977, 30347), (1009, 30410), (1058, 30545), (1066, 30569), (1071, 30578), (1107, 30656),

Gene: Adzzy_46 Start: 30091, Stop: 28304, Start Num: 228
Candidate Starts for Adzzy_46:
(Start: 228 @30091 has 960 MA's), (360, 29887), (366, 29878), (399, 29815), (400, 29812), (410, 29785), (424, 29758), (435, 29737), (490, 29605), (570, 29512), (590, 29464), (643, 29374), (670, 29326), (803, 29020), (835, 28936), (836, 28933), (847, 28897), (855, 28867), (871, 28828), (895, 28807), (900, 28786), (949, 28669), (958, 28642), (982, 28606), (992, 28588), (1009, 28552), (1013, 28528), (1066, 28393), (1073, 28381), (1079, 28372),

Gene: Aelin_60 Start: 54050, Stop: 52191, Start Num: 190
Candidate Starts for Aelin_60:
(Start: 173 @54074 has 3 MA's), (Start: 190 @54050 has 336 MA's), (Start: 222 @54026 has 3 MA's), (Start: 232 @54020 has 2 MA's), (261, 53978), (274, 53957), (336, 53843), (339, 53837), (355, 53807), (390, 53747), (398, 53726), (416, 53672), (429, 53660), (436, 53642), (440, 53630), (487, 53525), (552, 53468), (569, 53432), (573, 53420), (583, 53396), (590, 53384), (601, 53366), (611, 53348), (622, 53330), (643, 53291), (648, 53282), (649, 53279), (651, 53276), (796, 52919), (804, 52886), (812, 52865), (848, 52772), (851, 52763), (877, 52700), (900, 52664), (901, 52661), (906, 52646), (939, 52568), (946, 52556), (953, 52535), (976, 52496), (1013, 52406), (1022, 52388), (1024, 52382), (1032, 52367), (1040, 52343), (1042, 52328), (1043, 52325), (1047, 52313), (1059, 52289), (1082, 52241), (1093, 52217),

Gene: Aeneas_47 Start: 34971, Stop: 33184, Start Num: 228
Candidate Starts for Aeneas_47:
(Start: 228 @34971 has 960 MA's), (366, 34758), (373, 34743), (410, 34665), (418, 34644), (424, 34638), (430, 34629), (462, 34545), (479, 34512), (490, 34485), (570, 34392), (576, 34377), (583, 34356), (590, 34344), (621, 34293), (622, 34290), (659, 34224), (680, 34194), (690, 34164), (709, 34119), (729, 34080), (803, 33900), (821, 33852), (836, 33813), (855, 33747), (897, 33675), (900, 33666), (935, 33582), (977, 33495), (1032, 33369), (1036, 33357), (1058, 33297), (1066, 33273), (1069, 33267),

Gene: Agaliana_41 Start: 31606, Stop: 29780, Start Num: 228
Candidate Starts for Agaliana_41:
(Start: 228 @31606 has 960 MA's), (366, 31393), (373, 31378), (410, 31300), (418, 31279), (424, 31273), (430, 31264), (479, 31147), (490, 31120), (570, 31027), (576, 31012), (590, 30979), (621, 30928), (622, 30925), (659, 30859), (680, 30829), (690, 30799), (709, 30754), (729, 30715), (803, 30535), (821, 30487), (836, 30448), (855, 30382), (900, 30301), (901, 30298), (935, 30217), (1004,

30082), (1009, 30067), (1010, 30064), (1018, 30028), (1032, 30004), (1035, 29995), (1039, 29983), (1045, 29956), (1066, 29908), (1079, 29887),

Gene: Agamotto_41 Start: 31745, Stop: 29967, Start Num: 221
Candidate Starts for Agamotto_41:
(55, 32078), (101, 31937), (104, 31928), (Start: 221 @31745 has 14 MA's), (274, 31667), (299, 31625), (328, 31577), (413, 31433), (439, 31385), (448, 31367), (483, 31298), (493, 31274), (544, 31244), (570, 31205), (613, 31124), (626, 31097), (633, 31082), (672, 31019), (697, 30962), (712, 30932), (729, 30896), (733, 30884), (748, 30860), (798, 30746), (803, 30725), (806, 30719), (822, 30674), (841, 30623), (848, 30599), (855, 30572), (871, 30533), (931, 30392), (932, 30389), (951, 30341), (958, 30320), (986, 30266), (991, 30251), (1014, 30185), (1029, 30155), (1038, 30128), (1042, 30107), (1043, 30104), (1049, 30086), (1059, 30071), (1101, 29978),

Gene: Agape74_46 Start: 31661, Stop: 29874, Start Num: 228
Candidate Starts for Agape74_46:
(147, 31748), (Start: 228 @31661 has 960 MA's), (362, 31454), (366, 31448), (375, 31433), (384, 31418), (400, 31382), (410, 31355), (424, 31328), (435, 31307), (490, 31175), (570, 31082), (590, 31034), (595, 31025), (607, 31010), (643, 30944), (686, 30863), (707, 30815), (709, 30809), (742, 30746), (803, 30590), (823, 30539), (835, 30506), (836, 30503), (855, 30437), (871, 30398), (895, 30377), (924, 30302), (929, 30290), (949, 30239), (982, 30176), (992, 30158), (1009, 30122), (1013, 30098), (1042, 30020), (1066, 29963), (1073, 29951), (1079, 29942),

Gene: AgentM_37 Start: 30104, Stop: 28245, Start Num: 228
Candidate Starts for AgentM_37:
(Start: 228 @30104 has 960 MA's), (263, 30053), (304, 29993), (343, 29930), (360, 29900), (362, 29897), (396, 29840), (399, 29828), (410, 29798), (424, 29771), (465, 29669), (473, 29654), (490, 29618), (556, 29558), (570, 29522), (590, 29474), (637, 29390), (643, 29384), (685, 29312), (696, 29279), (703, 29264), (709, 29252), (761, 29153), (803, 29018), (815, 28988), (821, 28970), (830, 28952), (836, 28931), (840, 28922), (855, 28865), (871, 28826), (900, 28784), (906, 28766), (929, 28718), (949, 28667), (977, 28613), (982, 28604), (992, 28586), (1013, 28526), (1022, 28508), (1058, 28415), (1066, 28391), (1073, 28379), (1121, 28262), (1122, 28259),

Gene: Agente005_39 Start: 29167, Stop: 27299, Start Num: 301
Candidate Starts for Agente005_39:
(185, 29332), (218, 29287), (249, 29242), (Start: 301 @29167 has 153 MA's), (Start: 305 @29158 has 5 MA's), (431, 28900), (433, 28894), (439, 28879), (442, 28873), (545, 28687), (582, 28600), (586, 28591), (590, 28579), (606, 28552), (607, 28549), (614, 28534), (618, 28528), (623, 28516), (636, 28492), (768, 28198), (847, 27985), (850, 27976), (855, 27955), (873, 27913), (908, 27823), (924, 27778), (974, 27664), (989, 27634), (1010, 27565), (1013, 27541), (1028, 27502), (1044, 27457),

Gene: Aglet_49 Start: 31854, Stop: 30040, Start Num: 228
Candidate Starts for Aglet_49:
(Start: 228 @31854 has 960 MA's), (257, 31815), (263, 31803), (360, 31650), (369, 31635), (399, 31578), (424, 31521), (430, 31512), (448, 31470), (465, 31419), (490, 31368), (570, 31275), (590, 31227), (595, 31218), (607, 31203), (626, 31164), (643, 31137), (659, 31107), (703, 31014), (732, 30954), (742, 30939), (803, 30783), (836, 30696), (851, 30648), (855, 30630), (871, 30591), (901, 30519), (919, 30480), (929, 30456), (935, 30438), (949, 30405), (958, 30378), (992, 30324), (1013, 30264), (1042, 30186), (1066, 30129), (1073, 30117), (1079, 30108),

Gene: AgronaGT15_47 Start: 31705, Stop: 29891, Start Num: 228
Candidate Starts for AgronaGT15_47:
(Start: 228 @31705 has 960 MA's), (257, 31666), (263, 31654), (360, 31501), (369, 31486), (399, 31429), (424, 31372), (430, 31363), (448, 31321), (465, 31270), (490, 31219), (552, 31165), (570,

31126), (590, 31078), (607, 31054), (626, 31015), (643, 30988), (659, 30958), (703, 30865), (709, 30853), (732, 30805), (742, 30790), (803, 30634), (823, 30583), (835, 30550), (836, 30547), (855, 30481), (871, 30442), (901, 30370), (919, 30331), (929, 30307), (935, 30289), (949, 30256), (1013, 30115), (1045, 30028), (1066, 29980), (1073, 29968), (1079, 29959), (1082, 29956),

Gene: Ahwei_52 Start: 52985, Stop: 51162, Start Num: 182
Candidate Starts for Ahwei_52:
(Start: 163 @53003 has 29 MA's), (Start: 182 @52985 has 33 MA's), (Start: 232 @52961 has 2 MA's), (249, 52934), (261, 52919), (274, 52898), (324, 52811), (386, 52706), (402, 52664), (436, 52598), (449, 52568), (452, 52559), (457, 52556), (458, 52553), (467, 52526), (552, 52433), (560, 52415), (569, 52397), (573, 52385), (580, 52370), (585, 52358), (648, 52247), (649, 52244), (664, 52214), (685, 52178), (775, 51953), (776, 51950), (787, 51914), (796, 51890), (804, 51857), (846, 51749), (848, 51743), (850, 51737), (851, 51734), (900, 51635), (901, 51632), (906, 51617), (939, 51539), (946, 51527), (953, 51506), (955, 51497), (976, 51467), (990, 51443), (1007, 51410), (1013, 51377), (1022, 51359), (1024, 51353), (1040, 51314), (1043, 51296), (1047, 51284), (1059, 51260), (1078, 51218), (1082, 51212), (1093, 51188),

Gene: AinMach_42 Start: 30094, Stop: 31947, Start Num: 228
Candidate Starts for AinMach_42:
(Start: 228 @30094 has 960 MA's), (307, 30211), (321, 30238), (343, 30268), (410, 30391), (418, 30412), (626, 30775), (633, 30790), (707, 30928), (736, 30991), (745, 31012), (803, 31186), (815, 31216), (823, 31237), (836, 31273), (845, 31303), (855, 31339), (898, 31432), (976, 31609), (992, 31639), (1009, 31675), (1013, 31699), (1040, 31762), (1066, 31834), (1083, 31861), (1110, 31930),

Gene: Airmid_39 Start: 30159, Stop: 28294, Start Num: 228
Candidate Starts for Airmid_39:
(Start: 228 @30159 has 960 MA's), (304, 30048), (360, 29955), (362, 29952), (399, 29883), (410, 29853), (424, 29826), (430, 29817), (465, 29724), (473, 29709), (490, 29673), (556, 29613), (570, 29577), (587, 29532), (590, 29529), (607, 29505), (637, 29445), (685, 29367), (703, 29319), (709, 29307), (732, 29259), (761, 29208), (803, 29073), (815, 29043), (821, 29025), (836, 28986), (840, 28977), (848, 28947), (855, 28920), (856, 28917), (895, 28860), (900, 28839), (929, 28773), (949, 28722), (977, 28668), (982, 28659), (992, 28641), (1022, 28563), (1058, 28470), (1066, 28446), (1073, 28434), (1115, 28329),

Gene: Ajay_45 Start: 34664, Stop: 32835, Start Num: 228
Candidate Starts for Ajay_45:
(Start: 228 @34664 has 960 MA's), (366, 34451), (399, 34388), (410, 34358), (418, 34337), (424, 34331), (430, 34322), (479, 34205), (490, 34178), (570, 34085), (576, 34070), (590, 34037), (621, 33986), (622, 33983), (659, 33917), (680, 33887), (690, 33857), (709, 33812), (729, 33773), (803, 33593), (821, 33545), (840, 33497), (851, 33458), (855, 33440), (871, 33401), (895, 33380), (900, 33359), (905, 33344), (955, 33221), (1036, 33050), (1041, 33026), (1062, 32978), (1066, 32966), (1079, 32945), (1083, 32939), (1102, 32891), (1109, 32876),

Gene: Akino08_43 Start: 31514, Stop: 33388, Start Num: 217
Candidate Starts for Akino08_43:
(Start: 217 @31514 has 68 MA's), (Start: 273 @31583 has 1 MA's), (Start: 285 @31604 has 1 MA's), (399, 31784), (430, 31850), (436, 31865), (448, 31892), (626, 32186), (741, 32420), (783, 32540), (784, 32543), (803, 32603), (806, 32609), (823, 32654), (830, 32669), (833, 32684), (845, 32720), (855, 32756), (898, 32849), (924, 32909), (936, 32942), (973, 33020), (975, 33023), (1009, 33092), (1013, 33116), (1018, 33131), (1038, 33173), (1041, 33191), (1066, 33251), (1079, 33272),

Gene: Akoma_58 Start: 53685, Stop: 51868, Start Num: 230
Candidate Starts for Akoma_58:

(110, 53868), (Start: 230 @53685 has 52 MA's), (249, 53655), (366, 53475), (411, 53370), (435, 53322), (439, 53310), (452, 53280), (458, 53274), (487, 53211), (489, 53205), (552, 53154), (569, 53118), (590, 53070), (649, 52965), (694, 52869), (722, 52818), (775, 52674), (787, 52635), (797, 52605), (804, 52578), (810, 52566), (846, 52470), (848, 52464), (851, 52455), (854, 52443), (883, 52371), (900, 52341), (906, 52323), (912, 52314), (939, 52245), (946, 52233), (953, 52212), (992, 52143), (1002, 52128), (1010, 52104), (1013, 52083), (1022, 52065), (1024, 52059), (1038, 52026), (1040, 52020), (1043, 52002), (1047, 51990), (1054, 51978), (1059, 51966), (1078, 51924), (1093, 51894),

Gene: Akoni_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for Akoni_10:
(40, 8685), (83, 8535), (93, 8499), (98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (515, 7680), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (781, 7005), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1037, 6270), (1043, 6243), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: AksarBAT_53 Start: 47165, Stop: 45357, Start Num: 225
Candidate Starts for AksarBAT_53:
(Start: 225 @47165 has 16 MA's), (Start: 232 @47156 has 2 MA's), (259, 47117), (261, 47114), (274, 47093), (278, 47084), (299, 47048), (336, 46988), (362, 46946), (384, 46904), (435, 46796), (440, 46781), (449, 46763), (458, 46748), (487, 46685), (552, 46628), (569, 46592), (573, 46580), (635, 46463), (643, 46451), (649, 46439), (658, 46421), (660, 46415), (775, 46148), (776, 46145), (797, 46079), (804, 46052), (831, 45995), (846, 45944), (848, 45938), (851, 45929), (877, 45866), (901, 45827), (906, 45812), (939, 45734), (946, 45722), (953, 45701), (955, 45692), (976, 45662), (1007, 45605), (1040, 45509), (1043, 45491), (1059, 45455), (1082, 45407), (1093, 45383), (1100, 45362),

Gene: Alakazam_38 Start: 28696, Stop: 26795, Start Num: 301
Candidate Starts for Alakazam_38:
(Start: 301 @28696 has 153 MA's), (346, 28597), (349, 28591), (380, 28540), (382, 28537), (402, 28486), (404, 28483), (440, 28405), (474, 28312), (552, 28201), (560, 28180), (582, 28126), (585, 28120), (586, 28117), (590, 28105), (607, 28075), (618, 28054), (623, 28042), (624, 28039), (636, 28018), (706, 27871), (749, 27772), (770, 27715), (855, 27448), (870, 27412), (873, 27406), (879, 27391), (906, 27328), (908, 27319), (992, 27121), (1013, 27037), (1014, 27034), (1017, 27025), (1028, 26998),

Gene: AlanGrant_57 Start: 55116, Stop: 53290, Start Num: 182
Candidate Starts for AlanGrant_57:
(Start: 182 @55116 has 33 MA's), (Start: 217 @55098 has 68 MA's), (261, 55047), (274, 55026), (355, 54888), (386, 54834), (406, 54780), (436, 54726), (449, 54696), (457, 54684), (458, 54681), (552, 54561), (569, 54525), (573, 54513), (585, 54486), (643, 54384), (649, 54372), (668, 54336), (685, 54306), (696, 54273), (722, 54225), (797, 54012), (804, 53985), (846, 53877), (848, 53871), (851, 53862), (854, 53850), (875, 53799), (897, 53772), (900, 53763), (901, 53760), (902, 53757), (906, 53745), (939, 53667), (946, 53655), (953, 53634), (955, 53625), (960, 53616), (1013, 53505), (1022, 53487), (1024, 53481), (1040, 53442), (1042, 53427), (1047, 53412), (1054, 53400), (1059, 53388), (1082, 53340), (1093, 53316),

Gene: Alatin_36 Start: 28180, Stop: 26396, Start Num: 228
Candidate Starts for Alatin_36:
(Start: 228 @28180 has 960 MA's), (379, 27946), (396, 27916), (398, 27907), (399, 27904), (415, 27859), (424, 27847), (448, 27796), (490, 27694), (498, 27673), (570, 27601), (587, 27556), (590, 27553), (617, 27511), (619, 27505), (626, 27490), (643, 27463), (696, 27358), (701, 27349), (709,

27331), (710, 27328), (729, 27292), (803, 27112), (821, 27064), (855, 26959), (856, 26956), (895, 26899), (900, 26878), (951, 26755), (992, 26680), (1009, 26644), (1013, 26620), (1042, 26542), (1066, 26485), (1073, 26473), (1094, 26434), (1100, 26416),

Gene: Albedo_43 Start: 29891, Stop: 31765, Start Num: 217
Candidate Starts for Albedo_43:
(Start: 215 @29888 has 12 MA's), (Start: 217 @29891 has 68 MA's), (Start: 273 @29960 has 1 MA's), (Start: 285 @29981 has 1 MA's), (430, 30227), (448, 30269), (582, 30482), (626, 30563), (741, 30797), (784, 30920), (803, 30980), (806, 30986), (823, 31031), (830, 31046), (833, 31061), (845, 31097), (855, 31133), (898, 31226), (936, 31319), (973, 31397), (1009, 31469), (1018, 31508), (1038, 31550), (1041, 31568), (1066, 31628), (1079, 31649),

Gene: Albee_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Albee_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Alberto7_46 Start: 31907, Stop: 30081, Start Num: 228
Candidate Starts for Alberto7_46:
(Start: 228 @31907 has 960 MA's), (Start: 241 @31886 has 3 MA's), (263, 31856), (278, 31826), (384, 31664), (394, 31646), (424, 31574), (430, 31565), (480, 31445), (490, 31421), (570, 31328), (592, 31280), (607, 31259), (626, 31220), (696, 31088), (707, 31067), (729, 31022), (733, 31010), (798, 30857), (803, 30836), (847, 30713), (855, 30683), (871, 30644), (900, 30578), (901, 30575), (906, 30560), (919, 30536), (929, 30512), (1013, 30305), (1066, 30170), (1073, 30158), (1079, 30149),

Gene: Albright_40 Start: 28818, Stop: 30692, Start Num: 217
Candidate Starts for Albright_40:
(Start: 215 @28815 has 12 MA's), (Start: 217 @28818 has 68 MA's), (Start: 273 @28887 has 1 MA's), (Start: 285 @28908 has 1 MA's), (430, 29154), (448, 29196), (582, 29409), (626, 29490), (741, 29724), (784, 29847), (803, 29907), (806, 29913), (823, 29958), (830, 29973), (833, 29988), (845, 30024), (855, 30060), (898, 30153), (936, 30246), (973, 30324), (1009, 30396), (1018, 30435), (1038, 30477), (1041, 30495), (1066, 30555), (1079, 30576),

Gene: Aldrich_45 Start: 35357, Stop: 33531, Start Num: 228
Candidate Starts for Aldrich_45:
(Start: 228 @35357 has 960 MA's), (366, 35144), (373, 35129), (410, 35051), (418, 35030), (424, 35024), (430, 35015), (479, 34898), (490, 34871), (570, 34778), (576, 34763), (621, 34679), (622, 34676), (659, 34610), (690, 34550), (709, 34505), (729, 34466), (803, 34286), (821, 34238), (836, 34199), (855, 34133), (871, 34094), (895, 34073), (900, 34052), (906, 34034), (935, 33968), (1007, 33827), (1009, 33818), (1010, 33815), (1018, 33779), (1032, 33755), (1035, 33746), (1039, 33734), (1066, 33659), (1079, 33638),

Gene: Aleia_63 Start: 54377, Stop: 52518, Start Num: 190
Candidate Starts for Aleia_63:
(Start: 173 @54401 has 3 MA's), (Start: 190 @54377 has 336 MA's), (Start: 222 @54353 has 3 MA's), (Start: 232 @54347 has 2 MA's), (261, 54305), (274, 54284), (336, 54170), (339, 54164), (355, 54134), (390, 54074), (398, 54053), (416, 53999), (429, 53987), (436, 53969), (440, 53957), (487, 53852), (552, 53795), (569, 53759), (573, 53747), (583, 53723), (590, 53711), (601, 53693), (611, 53675), (622, 53657), (643, 53618), (648, 53609), (649, 53606), (651, 53603), (796, 53246), (804, 53213), (812, 53192), (848, 53099), (851, 53090), (877, 53027), (900, 52991), (901, 52988), (906, 52973),

(939, 52895), (946, 52883), (953, 52862), (976, 52823), (1013, 52733), (1022, 52715), (1024, 52709), (1032, 52694), (1040, 52670), (1042, 52655), (1043, 52652), (1047, 52640), (1059, 52616), (1082, 52568), (1093, 52544),

Gene: Alex44_10 Start: 8628, Stop: 6409, Start Num: 163
Candidate Starts for Alex44_10:
(Start: 163 @8628 has 29 MA's), (247, 8514), (257, 8508), (Start: 285 @8463 has 1 MA's), (316, 8403), (388, 8280), (395, 8265), (402, 8241), (451, 8112), (508, 7965), (511, 7944), (515, 7929), (526, 7869), (556, 7788), (571, 7749), (645, 7644), (714, 7491), (753, 7407), (773, 7350), (778, 7332), (802, 7251), (841, 7137), (844, 7125), (857, 7077), (877, 6999), (879, 6990), (910, 6900), (923, 6876), (935, 6846), (970, 6765), (1019, 6627), (1033, 6591), (1035, 6582), (1053, 6534), (1066, 6495), (1073, 6483),

Gene: AlexAdler_39 Start: 28925, Stop: 27060, Start Num: 301
Candidate Starts for AlexAdler_39:
(Start: 241 @29012 has 3 MA's), (Start: 301 @28925 has 153 MA's), (Start: 305 @28916 has 5 MA's), (353, 28811), (360, 28802), (378, 28772), (380, 28769), (435, 28649), (439, 28637), (442, 28631), (483, 28526), (494, 28499), (582, 28358), (585, 28352), (586, 28349), (590, 28337), (606, 28310), (607, 28307), (614, 28292), (618, 28286), (621, 28280), (638, 28247), (726, 28058), (847, 27743), (850, 27734), (851, 27731), (855, 27713), (873, 27671), (877, 27665), (888, 27641), (908, 27584), (974, 27425), (989, 27395), (992, 27386), (1010, 27326), (1013, 27302), (1028, 27263), (1040, 27230), (1044, 27218), (1068, 27158),

Gene: Aleyra_39 Start: 29172, Stop: 27304, Start Num: 301
Candidate Starts for Aleyra_39:
(185, 29337), (218, 29292), (249, 29247), (Start: 301 @29172 has 153 MA's), (Start: 305 @29163 has 5 MA's), (431, 28905), (433, 28899), (439, 28884), (442, 28878), (545, 28692), (582, 28605), (586, 28596), (590, 28584), (606, 28557), (607, 28554), (614, 28539), (618, 28533), (623, 28521), (636, 28497), (768, 28203), (847, 27990), (850, 27981), (855, 27960), (873, 27918), (908, 27828), (924, 27783), (974, 27669), (989, 27639), (1010, 27570), (1013, 27546), (1028, 27507), (1044, 27462),

Gene: Aliter_45 Start: 31411, Stop: 29618, Start Num: 228
Candidate Starts for Aliter_45:
(Start: 228 @31411 has 960 MA's), (235, 31402), (263, 31360), (342, 31240), (343, 31237), (370, 31189), (400, 31129), (411, 31099), (415, 31087), (424, 31075), (490, 30922), (570, 30829), (643, 30691), (659, 30661), (733, 30502), (742, 30490), (764, 30463), (798, 30355), (803, 30334), (851, 30199), (855, 30181), (900, 30100), (919, 30058), (949, 29983), (990, 29908), (1009, 29866), (1042, 29764), (1066, 29707), (1073, 29695), (1079, 29686),

Gene: Allegro_57 Start: 52477, Stop: 50648, Start Num: 190
Candidate Starts for Allegro_57:
(Start: 190 @52477 has 336 MA's), (Start: 232 @52450 has 2 MA's), (Start: 255 @52420 has 8 MA's), (261, 52408), (Start: 276 @52381 has 2 MA's), (278, 52378), (284, 52369), (307, 52351), (362, 52255), (390, 52204), (399, 52180), (406, 52156), (467, 52018), (482, 51994), (487, 51982), (552, 51925), (569, 51889), (573, 51877), (583, 51853), (630, 51769), (648, 51739), (649, 51736), (664, 51706), (727, 51562), (755, 51496), (771, 51457), (775, 51445), (780, 51424), (787, 51406), (804, 51349), (840, 51265), (848, 51235), (851, 51226), (875, 51160), (897, 51133), (900, 51124), (906, 51106), (919, 51082), (939, 51028), (946, 51016), (953, 50995), (992, 50926), (1013, 50866), (1022, 50848), (1036, 50815), (1040, 50803), (1042, 50788), (1043, 50785), (1047, 50773), (1059, 50749), (1060, 50746), (1082, 50698), (1083, 50695), (1093, 50674), (1100, 50653),

Gene: Alma_45 Start: 31495, Stop: 29702, Start Num: 228
Candidate Starts for Alma_45:

(Start: 228 @31495 has 960 MA's), (235, 31486), (317, 31357), (343, 31321), (360, 31291), (366, 31282), (384, 31249), (399, 31216), (400, 31213), (411, 31183), (415, 31171), (424, 31159), (490, 31006), (570, 30913), (643, 30775), (659, 30745), (733, 30586), (742, 30574), (764, 30547), (798, 30439), (803, 30418), (851, 30283), (855, 30265), (900, 30184), (949, 30067), (955, 30046), (990, 29992), (1009, 29950), (1013, 29926), (1042, 29848), (1066, 29791), (1073, 29779), (1079, 29770),

Gene: AloeVera_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for AloeVera_10:
(129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (515, 7680), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1037, 6270), (1043, 6243), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: Alone3_143 Start: 75999, Stop: 78035, Start Num: 255
Candidate Starts for Alone3_143:
(Start: 255 @75999 has 8 MA's), (292, 76065), (308, 76089), (331, 76140), (334, 76143), (342, 76155), (360, 76188), (398, 76257), (444, 76392), (456, 76428), (535, 76548), (561, 76602), (564, 76605), (582, 76656), (587, 76668), (626, 76737), (637, 76758), (666, 76806), (672, 76815), (806, 77193), (839, 77310), (843, 77328), (879, 77424), (896, 77460), (923, 77529), (926, 77538), (929, 77544), (986, 77682), (991, 77697), (995, 77712), (1018, 77796), (1022, 77799), (1045, 77871), (1065, 77943), (1088, 77997), (1091, 78003),

Gene: Alpacados_35 Start: 28085, Stop: 26301, Start Num: 228
Candidate Starts for Alpacados_35:
(Start: 228 @28085 has 960 MA's), (342, 27914), (379, 27851), (396, 27821), (398, 27812), (399, 27809), (415, 27764), (424, 27752), (430, 27743), (448, 27701), (490, 27599), (498, 27578), (570, 27506), (587, 27461), (590, 27458), (617, 27416), (619, 27410), (626, 27395), (643, 27368), (696, 27263), (709, 27236), (729, 27197), (803, 27017), (821, 26969), (855, 26864), (856, 26861), (895, 26804), (900, 26783), (919, 26741), (922, 26735), (951, 26660), (990, 26591), (1009, 26549), (1013, 26525), (1042, 26447), (1066, 26390), (1073, 26378), (1100, 26321),

Gene: Alsfro_48 Start: 34937, Stop: 33111, Start Num: 228
Candidate Starts for Alsfro_48:
(Start: 228 @34937 has 960 MA's), (366, 34724), (373, 34709), (410, 34631), (418, 34610), (424, 34604), (430, 34595), (479, 34478), (490, 34451), (570, 34358), (576, 34343), (590, 34310), (621, 34259), (622, 34256), (659, 34190), (690, 34130), (709, 34085), (729, 34046), (803, 33866), (821, 33818), (836, 33779), (855, 33713), (871, 33674), (895, 33653), (900, 33632), (906, 33614), (935, 33548), (1009, 33398), (1010, 33395), (1018, 33359), (1032, 33335), (1035, 33326), (1039, 33314), (1066, 33239), (1079, 33218),

Gene: AltPhacts_60 Start: 53599, Stop: 51740, Start Num: 190
Candidate Starts for AltPhacts_60:
(Start: 173 @53623 has 3 MA's), (Start: 190 @53599 has 336 MA's), (Start: 222 @53575 has 3 MA's), (Start: 232 @53569 has 2 MA's), (249, 53542), (261, 53527), (274, 53506), (336, 53392), (339, 53386), (355, 53356), (390, 53296), (398, 53275), (416, 53221), (429, 53209), (436, 53191), (440, 53179), (487, 53074), (552, 53017), (569, 52981), (573, 52969), (583, 52945), (590, 52933), (611, 52897), (643, 52840), (648, 52831), (649, 52828), (651, 52825), (796, 52468), (804, 52435), (812, 52414), (848, 52321), (851, 52312), (877, 52249), (900, 52213), (901, 52210), (906, 52195), (939, 52117), (946, 52105), (953, 52084), (976, 52045), (1013, 51955), (1022, 51937), (1024, 51931), (1032, 51916), (1040, 51892), (1042, 51877), (1043, 51874), (1047, 51862), (1059, 51838), (1082, 51790), (1093, 51766),

Gene: Altman_46 Start: 35175, Stop: 33349, Start Num: 228
Candidate Starts for Altman_46:
(Start: 228 @35175 has 960 MA's), (366, 34962), (399, 34899), (410, 34869), (418, 34848), (424, 34842), (430, 34833), (479, 34716), (490, 34689), (570, 34596), (576, 34581), (621, 34497), (622, 34494), (659, 34428), (680, 34398), (690, 34368), (709, 34323), (729, 34284), (803, 34104), (821, 34056), (836, 34017), (855, 33951), (871, 33912), (895, 33891), (900, 33870), (906, 33852), (935, 33786), (1009, 33636), (1010, 33633), (1018, 33597), (1032, 33573), (1035, 33564), (1039, 33552), (1066, 33477), (1079, 33456),

Gene: Altwerkus_58 Start: 53696, Stop: 51837, Start Num: 190
Candidate Starts for Altwerkus_58:
(Start: 173 @53720 has 3 MA's), (Start: 190 @53696 has 336 MA's), (Start: 222 @53672 has 3 MA's), (Start: 232 @53666 has 2 MA's), (261, 53624), (274, 53603), (336, 53489), (339, 53483), (355, 53453), (390, 53393), (398, 53372), (416, 53318), (429, 53306), (436, 53288), (440, 53276), (487, 53171), (552, 53114), (569, 53078), (573, 53066), (585, 53039), (601, 53012), (611, 52994), (622, 52976), (643, 52937), (648, 52928), (649, 52925), (761, 52667), (796, 52565), (804, 52532), (812, 52511), (848, 52418), (851, 52409), (877, 52346), (900, 52310), (901, 52307), (906, 52292), (939, 52214), (946, 52202), (953, 52181), (976, 52142), (1013, 52052), (1022, 52034), (1024, 52028), (1032, 52013), (1040, 51989), (1042, 51974), (1043, 51971), (1047, 51959), (1059, 51935), (1082, 51887), (1093, 51863),

Gene: Alvin_44 Start: 35187, Stop: 33358, Start Num: 228
Candidate Starts for Alvin_44:
(Start: 228 @35187 has 960 MA's), (342, 35016), (366, 34974), (373, 34959), (399, 34911), (410, 34881), (418, 34860), (424, 34854), (430, 34845), (479, 34728), (490, 34701), (570, 34608), (576, 34593), (621, 34509), (622, 34506), (659, 34440), (680, 34410), (690, 34380), (709, 34335), (729, 34296), (803, 34116), (821, 34068), (840, 34020), (851, 33981), (855, 33963), (871, 33924), (895, 33903), (900, 33882), (905, 33867), (955, 33744), (977, 33711), (1036, 33573), (1041, 33549), (1062, 33501), (1066, 33489), (1079, 33468), (1083, 33462), (1102, 33414), (1109, 33399),

Gene: Alyxandracam_39 Start: 28935, Stop: 27070, Start Num: 301
Candidate Starts for Alyxandracam_39:
(Start: 241 @29022 has 3 MA's), (Start: 243 @29019 has 1 MA's), (Start: 301 @28935 has 153 MA's), (Start: 305 @28926 has 5 MA's), (353, 28821), (360, 28812), (378, 28782), (380, 28779), (433, 28662), (439, 28647), (442, 28641), (483, 28536), (494, 28509), (582, 28368), (586, 28359), (590, 28347), (606, 28320), (607, 28317), (614, 28302), (618, 28296), (621, 28290), (638, 28257), (726, 28068), (847, 27753), (850, 27744), (851, 27741), (855, 27723), (873, 27681), (877, 27675), (888, 27651), (908, 27594), (974, 27435), (989, 27405), (992, 27396), (1010, 27336), (1013, 27312), (1028, 27273), (1040, 27240), (1044, 27228), (1068, 27168),

Gene: Amavida_56 Start: 36664, Stop: 34496, Start Num: 213
Candidate Starts for Amavida_56:
(212, 36667), (Start: 213 @36664 has 13 MA's), (251, 36610), (299, 36526), (382, 36373), (387, 36364), (404, 36319), (429, 36241), (432, 36232), (438, 36217), (446, 36202), (447, 36199), (467, 36142), (506, 36049), (520, 36007), (601, 35812), (607, 35800), (609, 35794), (622, 35770), (631, 35749), (646, 35728), (653, 35713), (656, 35707), (689, 35644), (709, 35593), (737, 35506), (763, 35446), (778, 35398), (813, 35296), (815, 35290), (824, 35263), (825, 35260), (835, 35239), (848, 35197), (850, 35191), (856, 35167), (876, 35125), (877, 35122), (888, 35095), (896, 35062), (898, 35050), (914, 35014), (924, 34990), (926, 34984), (929, 34978), (950, 34924), (976, 34876), (977, 34873), (1002, 34813), (1009, 34789), (1015, 34759), (1037, 34705), (1040, 34696), (1054, 34636), (1059, 34624), (1075, 34585),

Gene: Amigo_55 Start: 36879, Stop: 34711, Start Num: 213
Candidate Starts for Amigo_55:
(212, 36882), (Start: 213 @36879 has 13 MA's), (251, 36825), (299, 36741), (382, 36588), (387, 36579), (404, 36534), (429, 36456), (432, 36447), (438, 36432), (446, 36417), (447, 36414), (467, 36357), (506, 36264), (520, 36222), (601, 36027), (607, 36015), (609, 36009), (622, 35985), (631, 35964), (646, 35943), (653, 35928), (656, 35922), (689, 35859), (709, 35808), (737, 35721), (763, 35661), (778, 35613), (813, 35511), (815, 35505), (824, 35478), (825, 35475), (835, 35454), (848, 35412), (850, 35406), (856, 35382), (876, 35340), (877, 35337), (888, 35310), (896, 35277), (898, 35265), (914, 35229), (924, 35205), (926, 35199), (929, 35193), (950, 35139), (976, 35091), (977, 35088), (1002, 35028), (1009, 35004), (1015, 34974), (1037, 34920), (1054, 34851), (1059, 34839), (1075, 34800),

Gene: Amploria_40 Start: 28991, Stop: 30856, Start Num: 228
Candidate Starts for Amploria_40:
(Start: 228 @28991 has 960 MA's), (261, 29039), (360, 29195), (418, 29309), (452, 29378), (572, 29585), (622, 29684), (626, 29693), (633, 29708), (643, 29720), (660, 29753), (707, 29846), (733, 29903), (768, 29984), (803, 30104), (815, 30134), (836, 30191), (853, 30248), (855, 30257), (898, 30350), (929, 30422), (932, 30431), (977, 30530), (1009, 30593), (1058, 30728), (1066, 30752), (1071, 30761), (1107, 30839),

Gene: Amyev_40 Start: 30363, Stop: 32228, Start Num: 228
Candidate Starts for Amyev_40:
(Start: 162 @30285 has 1 MA's), (Start: 228 @30363 has 960 MA's), (261, 30411), (343, 30537), (360, 30567), (383, 30594), (386, 30600), (410, 30660), (452, 30750), (572, 30957), (576, 30966), (626, 31065), (633, 31080), (707, 31218), (768, 31356), (795, 31443), (803, 31476), (828, 31539), (836, 31563), (853, 31620), (855, 31629), (898, 31722), (929, 31794), (977, 31902), (1009, 31965), (1013, 31989), (1066, 32124), (1071, 32133),

Gene: AnClar_50 Start: 47971, Stop: 46157, Start Num: 221
Candidate Starts for AnClar_50:
(150, 48061), (154, 48055), (Start: 221 @47971 has 14 MA's), (Start: 232 @47962 has 2 MA's), (261, 47920), (336, 47794), (362, 47752), (384, 47710), (411, 47641), (435, 47602), (439, 47590), (440, 47587), (476, 47512), (487, 47491), (569, 47398), (633, 47272), (643, 47257), (649, 47245), (692, 47155), (780, 46933), (804, 46858), (848, 46744), (851, 46735), (877, 46672), (901, 46633), (906, 46618), (939, 46540), (946, 46528), (948, 46522), (953, 46507), (955, 46498), (960, 46489), (1007, 46411), (1013, 46378), (1014, 46375), (1038, 46321), (1040, 46315), (1049, 46279), (1059, 46255), (1093, 46183),

Gene: Anansi_54 Start: 36486, Stop: 34318, Start Num: 213
Candidate Starts for Anansi_54:
(212, 36489), (Start: 213 @36486 has 13 MA's), (251, 36432), (299, 36348), (382, 36195), (387, 36186), (404, 36141), (429, 36063), (432, 36054), (438, 36039), (446, 36024), (447, 36021), (467, 35964), (506, 35871), (520, 35829), (601, 35634), (607, 35622), (609, 35616), (622, 35592), (631, 35571), (646, 35550), (653, 35535), (656, 35529), (689, 35466), (709, 35415), (737, 35328), (763, 35268), (778, 35220), (813, 35118), (815, 35112), (824, 35085), (825, 35082), (835, 35061), (848, 35019), (850, 35013), (856, 34989), (876, 34947), (877, 34944), (888, 34917), (896, 34884), (898, 34872), (914, 34836), (924, 34812), (926, 34806), (929, 34800), (950, 34746), (976, 34698), (977, 34695), (1002, 34635), (1009, 34611), (1015, 34581), (1037, 34527), (1054, 34458), (1059, 34446), (1075, 34407),

Gene: AnarQue_54 Start: 48016, Stop: 46199, Start Num: 225
Candidate Starts for AnarQue_54:

(Start: 225 @48016 has 16 MA's), (Start: 232 @48007 has 2 MA's), (249, 47980), (259, 47968), (274, 47944), (278, 47935), (362, 47797), (381, 47761), (411, 47686), (449, 47611), (487, 47533), (552, 47476), (569, 47440), (573, 47428), (583, 47404), (635, 47311), (649, 47287), (658, 47269), (775, 46996), (787, 46957), (797, 46927), (804, 46900), (846, 46792), (848, 46786), (851, 46777), (897, 46687), (900, 46678), (901, 46675), (906, 46660), (939, 46582), (946, 46570), (948, 46564), (953, 46549), (981, 46501), (1007, 46453), (1013, 46420), (1024, 46396), (1040, 46357), (1042, 46342), (1059, 46297), (1093, 46225),

Gene: Anaysia_47 Start: 29967, Stop: 28177, Start Num: 228
Candidate Starts for Anaysia_47:
(Start: 228 @29967 has 960 MA's), (343, 29793), (399, 29688), (400, 29685), (410, 29658), (424, 29631), (448, 29580), (490, 29478), (570, 29385), (587, 29340), (590, 29337), (595, 29328), (686, 29166), (696, 29139), (707, 29118), (709, 29112), (768, 29013), (778, 28974), (796, 28923), (803, 28893), (823, 28842), (835, 28809), (845, 28776), (847, 28770), (855, 28740), (895, 28680), (900, 28659), (919, 28617), (930, 28590), (935, 28575), (977, 28488), (1009, 28425), (1010, 28422), (1066, 28266), (1073, 28254), (1082, 28242),

Gene: Anderson_61 Start: 54268, Stop: 52409, Start Num: 190
Candidate Starts for Anderson_61:
(Start: 173 @54292 has 3 MA's), (Start: 190 @54268 has 336 MA's), (Start: 222 @54244 has 3 MA's), (Start: 232 @54238 has 2 MA's), (261, 54196), (274, 54175), (336, 54061), (339, 54055), (355, 54025), (390, 53965), (398, 53944), (416, 53890), (429, 53878), (436, 53860), (440, 53848), (487, 53743), (552, 53686), (569, 53650), (573, 53638), (583, 53614), (590, 53602), (601, 53584), (611, 53566), (622, 53548), (643, 53509), (648, 53500), (649, 53497), (651, 53494), (761, 53239), (796, 53137), (804, 53104), (812, 53083), (848, 52990), (851, 52981), (877, 52918), (900, 52882), (901, 52879), (906, 52864), (939, 52786), (946, 52774), (953, 52753), (976, 52714), (1013, 52624), (1022, 52606), (1024, 52600), (1032, 52585), (1040, 52561), (1042, 52546), (1043, 52543), (1047, 52531), (1059, 52507), (1066, 52486), (1082, 52459), (1093, 52435),

Gene: Andre_62 Start: 54444, Stop: 52585, Start Num: 190
Candidate Starts for Andre_62:
(Start: 173 @54468 has 3 MA's), (Start: 190 @54444 has 336 MA's), (Start: 222 @54420 has 3 MA's), (Start: 232 @54414 has 2 MA's), (261, 54372), (274, 54351), (336, 54237), (339, 54231), (355, 54201), (390, 54141), (398, 54120), (416, 54066), (429, 54054), (436, 54036), (440, 54024), (487, 53919), (552, 53862), (569, 53826), (573, 53814), (585, 53787), (601, 53760), (611, 53742), (622, 53724), (643, 53685), (648, 53676), (649, 53673), (796, 53313), (804, 53280), (812, 53259), (848, 53166), (851, 53157), (877, 53094), (900, 53058), (901, 53055), (906, 53040), (939, 52962), (946, 52950), (953, 52929), (976, 52890), (1013, 52800), (1022, 52782), (1024, 52776), (1032, 52761), (1040, 52737), (1042, 52722), (1043, 52719), (1047, 52707), (1059, 52683), (1082, 52635), (1093, 52611),

Gene: Andromedas_38 Start: 28731, Stop: 26866, Start Num: 301
Candidate Starts for Andromedas_38:
(Start: 301 @28731 has 153 MA's), (320, 28686), (346, 28632), (382, 28572), (402, 28521), (439, 28443), (442, 28437), (458, 28392), (459, 28389), (460, 28386), (474, 28347), (502, 28287), (582, 28164), (586, 28155), (590, 28143), (597, 28131), (607, 28113), (618, 28092), (623, 28080), (706, 27909), (773, 27741), (840, 27576), (850, 27540), (855, 27519), (873, 27477), (908, 27390), (924, 27345), (965, 27246), (989, 27201), (992, 27192), (1010, 27132), (1013, 27108), (1025, 27075), (1068, 26964),

Gene: Aneem_45 Start: 30776, Stop: 28989, Start Num: 228
Candidate Starts for Aneem_45:
(Start: 228 @30776 has 960 MA's), (360, 30572), (399, 30500), (410, 30470), (424, 30443), (572, 30191), (595, 30140), (643, 30059), (668, 30014), (733, 29873), (766, 29831), (778, 29786), (803,

29705), (823, 29654), (836, 29618), (855, 29552), (895, 29492), (897, 29480), (938, 29378), (949, 29354), (954, 29336), (992, 29273), (1007, 29246), (1009, 29237), (1013, 29213), (1066, 29078), (1073, 29066), (1079, 29057),

Gene: AngelCake_61 Start: 54371, Stop: 52512, Start Num: 190
Candidate Starts for AngelCake_61:
(Start: 173 @54395 has 3 MA's), (Start: 190 @54371 has 336 MA's), (Start: 222 @54347 has 3 MA's), (Start: 232 @54341 has 2 MA's), (261, 54299), (274, 54278), (336, 54164), (339, 54158), (355, 54128), (390, 54068), (398, 54047), (416, 53993), (429, 53981), (436, 53963), (440, 53951), (487, 53846), (552, 53789), (569, 53753), (573, 53741), (583, 53717), (590, 53705), (601, 53687), (611, 53669), (622, 53651), (643, 53612), (648, 53603), (649, 53600), (651, 53597), (796, 53240), (804, 53207), (812, 53186), (848, 53093), (851, 53084), (877, 53021), (900, 52985), (901, 52982), (906, 52967), (939, 52889), (946, 52877), (953, 52856), (976, 52817), (1013, 52727), (1022, 52709), (1024, 52703), (1032, 52688), (1040, 52664), (1042, 52649), (1043, 52646), (1047, 52634), (1059, 52610), (1082, 52562), (1093, 52538),

Gene: Anglerfish_45 Start: 34722, Stop: 32896, Start Num: 228
Candidate Starts for Anglerfish_45:
(Start: 228 @34722 has 960 MA's), (366, 34509), (373, 34494), (399, 34446), (410, 34416), (418, 34395), (424, 34389), (430, 34380), (479, 34263), (490, 34236), (570, 34143), (576, 34128), (590, 34095), (621, 34044), (622, 34041), (659, 33975), (680, 33945), (690, 33915), (709, 33870), (729, 33831), (803, 33651), (821, 33603), (836, 33564), (855, 33498), (871, 33459), (895, 33438), (900, 33417), (906, 33399), (935, 33333), (1009, 33183), (1010, 33180), (1018, 33144), (1032, 33120), (1035, 33111), (1039, 33099), (1045, 33072), (1066, 33024), (1079, 33003),

Gene: AngryOrchard_34 Start: 28044, Stop: 26260, Start Num: 228
Candidate Starts for AngryOrchard_34:
(Start: 228 @28044 has 960 MA's), (342, 27873), (384, 27801), (398, 27771), (399, 27768), (415, 27723), (424, 27711), (430, 27702), (448, 27660), (490, 27558), (498, 27537), (550, 27507), (570, 27465), (590, 27417), (626, 27354), (643, 27327), (696, 27222), (701, 27213), (709, 27195), (729, 27156), (803, 26976), (821, 26928), (855, 26823), (856, 26820), (895, 26763), (900, 26742), (951, 26619), (990, 26550), (1009, 26508), (1010, 26505), (1013, 26484), (1042, 26406), (1066, 26349), (1073, 26337), (1094, 26298), (1100, 26280),

Gene: Anilorac_38 Start: 29011, Stop: 27143, Start Num: 301
Candidate Starts for Anilorac_38:
(185, 29176), (218, 29131), (249, 29086), (Start: 301 @29011 has 153 MA's), (Start: 305 @29002 has 5 MA's), (431, 28744), (433, 28738), (439, 28723), (442, 28717), (545, 28531), (582, 28444), (586, 28435), (590, 28423), (606, 28396), (607, 28393), (614, 28378), (618, 28372), (623, 28360), (636, 28336), (768, 28042), (847, 27829), (850, 27820), (855, 27799), (873, 27757), (908, 27667), (924, 27622), (974, 27508), (989, 27478), (1010, 27409), (1013, 27385), (1028, 27346), (1044, 27301),

Gene: AnnaL29_46 Start: 32316, Stop: 30529, Start Num: 228
Candidate Starts for AnnaL29_46:
(Start: 228 @32316 has 960 MA's), (360, 32112), (362, 32109), (375, 32088), (384, 32073), (399, 32040), (410, 32010), (424, 31983), (435, 31962), (448, 31932), (490, 31830), (570, 31737), (590, 31689), (595, 31680), (607, 31665), (643, 31599), (686, 31518), (707, 31470), (744, 31398), (778, 31326), (803, 31245), (823, 31194), (835, 31161), (836, 31158), (855, 31092), (871, 31053), (895, 31032), (924, 30957), (958, 30867), (982, 30831), (992, 30813), (1009, 30777), (1013, 30753), (1038, 30696), (1042, 30675), (1066, 30618), (1073, 30606), (1079, 30597),

Gene: AnnaLie_43 Start: 29896, Stop: 31770, Start Num: 217
Candidate Starts for AnnaLie_43:

(Start: 215 @29893 has 12 MA's), (Start: 217 @29896 has 68 MA's), (Start: 273 @29965 has 1 MA's), (Start: 285 @29986 has 1 MA's), (430, 30232), (448, 30274), (582, 30487), (626, 30568), (741, 30802), (784, 30925), (803, 30985), (806, 30991), (823, 31036), (830, 31051), (833, 31066), (845, 31102), (855, 31138), (898, 31231), (936, 31324), (973, 31402), (1009, 31474), (1018, 31513), (1038, 31555), (1041, 31573), (1058, 31609), (1066, 31633), (1079, 31654),

Gene: AnnabelLee_40 Start: 28648, Stop: 26867, Start Num: 221
Candidate Starts for AnnabelLee_40:
(168, 28717), (188, 28693), (205, 28672), (Start: 214 @28657 has 2 MA's), (Start: 221 @28648 has 14 MA's), (299, 28525), (328, 28477), (411, 28339), (413, 28333), (439, 28285), (482, 28204), (483, 28198), (493, 28174), (570, 28105), (613, 28024), (626, 27997), (633, 27982), (672, 27919), (697, 27862), (709, 27838), (712, 27832), (729, 27796), (748, 27760), (783, 27688), (798, 27646), (806, 27619), (841, 27523), (848, 27499), (855, 27472), (871, 27433), (902, 27358), (932, 27289), (951, 27241), (958, 27220), (986, 27166), (991, 27151), (1014, 27085), (1038, 27028), (1042, 27007), (1043, 27004), (1049, 26986), (1059, 26971),

Gene: Annyong_45 Start: 31615, Stop: 29789, Start Num: 228
Candidate Starts for Annyong_45:
(Start: 228 @31615 has 960 MA's), (Start: 241 @31594 has 3 MA's), (263, 31564), (278, 31534), (384, 31372), (394, 31354), (399, 31339), (424, 31282), (430, 31273), (480, 31153), (490, 31129), (570, 31036), (592, 30988), (607, 30967), (626, 30928), (696, 30796), (707, 30775), (729, 30730), (733, 30718), (798, 30565), (803, 30544), (847, 30421), (855, 30391), (871, 30352), (900, 30286), (901, 30283), (906, 30268), (919, 30244), (929, 30220), (1013, 30013), (1066, 29878), (1073, 29866), (1079, 29857),

Gene: Anon_42 Start: 29008, Stop: 27218, Start Num: 228
Candidate Starts for Anon_42:
(Start: 228 @29008 has 960 MA's), (399, 28729), (400, 28726), (424, 28672), (448, 28621), (490, 28519), (570, 28426), (587, 28381), (590, 28378), (595, 28369), (654, 28270), (686, 28207), (696, 28180), (729, 28114), (778, 28015), (798, 27955), (803, 27934), (823, 27883), (830, 27868), (836, 27847), (840, 27838), (851, 27799), (855, 27781), (900, 27700), (906, 27682), (992, 27502), (1007, 27475), (1042, 27364), (1066, 27307), (1073, 27295), (1082, 27283),

Gene: Anselm_45 Start: 31702, Stop: 29915, Start Num: 228
Candidate Starts for Anselm_45:
(Start: 228 @31702 has 960 MA's), (360, 31498), (362, 31495), (375, 31474), (384, 31459), (396, 31438), (399, 31426), (400, 31423), (410, 31396), (424, 31369), (435, 31348), (490, 31216), (570, 31123), (590, 31075), (595, 31066), (607, 31051), (643, 30985), (686, 30904), (707, 30856), (742, 30787), (778, 30712), (803, 30631), (823, 30580), (836, 30544), (855, 30478), (871, 30439), (895, 30418), (924, 30343), (935, 30313), (949, 30280), (958, 30253), (982, 30217), (990, 30205), (992, 30199), (1009, 30163), (1013, 30139), (1042, 30061), (1066, 30004), (1073, 29992), (1079, 29983),

Gene: Anthony_39 Start: 28917, Stop: 27130, Start Num: 228
Candidate Starts for Anthony_39:
(Start: 228 @28917 has 960 MA's), (384, 28671), (415, 28593), (424, 28581), (430, 28572), (490, 28428), (570, 28335), (585, 28296), (587, 28290), (590, 28287), (607, 28263), (659, 28167), (676, 28143), (696, 28092), (703, 28077), (709, 28065), (781, 27915), (798, 27867), (803, 27846), (821, 27798), (835, 27762), (855, 27693), (949, 27495), (951, 27489), (977, 27441), (992, 27414), (1007, 27387), (1042, 27276), (1066, 27219), (1073, 27207), (1079, 27198),

Gene: Antihero_52 Start: 52983, Stop: 51160, Start Num: 182
Candidate Starts for Antihero_52:

(Start: 163 @53001 has 29 MA's), (Start: 182 @52983 has 33 MA's), (Start: 232 @52959 has 2 MA's), (249, 52932), (261, 52917), (274, 52896), (324, 52809), (386, 52704), (402, 52662), (436, 52596), (449, 52566), (452, 52557), (457, 52554), (458, 52551), (467, 52524), (552, 52431), (560, 52413), (569, 52395), (573, 52383), (580, 52368), (585, 52356), (648, 52245), (649, 52242), (664, 52212), (685, 52176), (775, 51951), (776, 51948), (787, 51912), (796, 51888), (804, 51855), (846, 51747), (848, 51741), (850, 51735), (851, 51732), (900, 51633), (901, 51630), (906, 51615), (939, 51537), (946, 51525), (953, 51504), (955, 51495), (976, 51465), (990, 51441), (1007, 51408), (1013, 51375), (1022, 51357), (1024, 51351), (1040, 51312), (1043, 51294), (1047, 51282), (1059, 51258), (1078, 51216), (1082, 51210), (1093, 51186),

Gene: Antoinette_39 Start: 28922, Stop: 27057, Start Num: 301
Candidate Starts for Antoinette_39:
(Start: 241 @29009 has 3 MA's), (Start: 243 @29006 has 1 MA's), (Start: 301 @28922 has 153 MA's), (Start: 305 @28913 has 5 MA's), (353, 28808), (360, 28799), (378, 28769), (380, 28766), (435, 28646), (439, 28634), (442, 28628), (483, 28523), (494, 28496), (582, 28355), (585, 28349), (586, 28346), (590, 28334), (606, 28307), (607, 28304), (614, 28289), (618, 28283), (621, 28277), (638, 28244), (701, 28115), (726, 28055), (784, 27890), (847, 27740), (850, 27731), (851, 27728), (855, 27710), (873, 27668), (877, 27662), (879, 27653), (888, 27638), (908, 27581), (974, 27422), (989, 27392), (992, 27383), (1010, 27323), (1013, 27299), (1028, 27260), (1040, 27227), (1044, 27215), (1068, 27155),

Gene: Antonia_60 Start: 54050, Stop: 52191, Start Num: 190
Candidate Starts for Antonia_60:
(Start: 173 @54074 has 3 MA's), (Start: 190 @54050 has 336 MA's), (Start: 222 @54026 has 3 MA's), (Start: 232 @54020 has 2 MA's), (261, 53978), (274, 53957), (336, 53843), (339, 53837), (355, 53807), (390, 53747), (398, 53726), (416, 53672), (429, 53660), (436, 53642), (440, 53630), (487, 53525), (552, 53468), (569, 53432), (573, 53420), (583, 53396), (590, 53384), (601, 53366), (611, 53348), (622, 53330), (643, 53291), (648, 53282), (649, 53279), (651, 53276), (796, 52919), (804, 52886), (812, 52865), (848, 52772), (851, 52763), (877, 52700), (900, 52664), (901, 52661), (906, 52646), (939, 52568), (946, 52556), (953, 52535), (976, 52496), (1013, 52406), (1022, 52388), (1024, 52382), (1032, 52367), (1040, 52343), (1042, 52328), (1043, 52325), (1047, 52313), (1059, 52289), (1082, 52241), (1093, 52217),

Gene: Anubis_51 Start: 31739, Stop: 29925, Start Num: 228
Candidate Starts for Anubis_51:
(Start: 228 @31739 has 960 MA's), (257, 31700), (263, 31688), (360, 31535), (369, 31520), (399, 31463), (424, 31406), (430, 31397), (448, 31355), (465, 31304), (490, 31253), (570, 31160), (590, 31112), (595, 31103), (607, 31088), (626, 31049), (643, 31022), (659, 30992), (703, 30899), (732, 30839), (742, 30824), (803, 30668), (836, 30581), (855, 30515), (871, 30476), (901, 30404), (919, 30365), (929, 30341), (935, 30323), (949, 30290), (958, 30263), (992, 30209), (1013, 30149), (1042, 30071), (1066, 30014), (1073, 30002), (1079, 29993),

Gene: Aonishiki_61 Start: 54311, Stop: 52452, Start Num: 190
Candidate Starts for Aonishiki_61:
(Start: 173 @54335 has 3 MA's), (Start: 190 @54311 has 336 MA's), (Start: 222 @54287 has 3 MA's), (Start: 232 @54281 has 2 MA's), (261, 54239), (274, 54218), (336, 54104), (339, 54098), (355, 54068), (390, 54008), (398, 53987), (416, 53933), (429, 53921), (436, 53903), (440, 53891), (487, 53786), (552, 53729), (569, 53693), (573, 53681), (583, 53657), (590, 53645), (601, 53627), (611, 53609), (622, 53591), (643, 53552), (648, 53543), (649, 53540), (651, 53537), (796, 53180), (804, 53147), (812, 53126), (848, 53033), (851, 53024), (877, 52961), (900, 52925), (901, 52922), (906, 52907), (939, 52829), (946, 52817), (953, 52796), (976, 52757), (1013, 52667), (1022, 52649), (1024, 52643), (1032, 52628), (1040, 52604), (1042, 52589), (1043, 52586), (1047, 52574), (1059, 52550), (1082, 52502), (1093, 52478),

Gene: Apex_54 Start: 54199, Stop: 52376, Start Num: 182
Candidate Starts for Apex_54:
(Start: 163 @54217 has 29 MA's), (Start: 182 @54199 has 33 MA's), (Start: 232 @54175 has 2 MA's), (249, 54148), (261, 54133), (274, 54112), (324, 54025), (386, 53920), (402, 53878), (436, 53812), (449, 53782), (452, 53773), (457, 53770), (458, 53767), (467, 53740), (552, 53647), (560, 53629), (569, 53611), (573, 53599), (580, 53584), (585, 53572), (622, 53509), (643, 53470), (648, 53461), (649, 53458), (664, 53428), (685, 53392), (775, 53167), (776, 53164), (787, 53128), (796, 53104), (804, 53071), (846, 52963), (848, 52957), (851, 52948), (900, 52849), (901, 52846), (906, 52831), (939, 52753), (946, 52741), (953, 52720), (955, 52711), (976, 52681), (1007, 52624), (1013, 52591), (1024, 52567), (1040, 52528), (1043, 52510), (1047, 52498), (1059, 52474), (1078, 52432), (1082, 52426), (1093, 52402),

Gene: Apizium_60 Start: 53711, Stop: 51852, Start Num: 190
Candidate Starts for Apizium_60:
(Start: 173 @53735 has 3 MA's), (Start: 190 @53711 has 336 MA's), (Start: 222 @53687 has 3 MA's), (Start: 232 @53681 has 2 MA's), (261, 53639), (274, 53618), (336, 53504), (339, 53498), (355, 53468), (390, 53408), (398, 53387), (416, 53333), (429, 53321), (436, 53303), (440, 53291), (487, 53186), (552, 53129), (569, 53093), (573, 53081), (585, 53054), (590, 53045), (611, 53009), (643, 52952), (648, 52943), (649, 52940), (651, 52937), (761, 52682), (796, 52580), (804, 52547), (812, 52526), (848, 52433), (851, 52424), (877, 52361), (900, 52325), (901, 52322), (906, 52307), (939, 52229), (946, 52217), (953, 52196), (976, 52157), (1013, 52067), (1022, 52049), (1024, 52043), (1032, 52028), (1040, 52004), (1042, 51989), (1043, 51986), (1047, 51974), (1059, 51950), (1066, 51929), (1082, 51902), (1093, 51878),

Gene: AppleCloud_34 Start: 28055, Stop: 26271, Start Num: 228
Candidate Starts for AppleCloud_34:
(Start: 228 @28055 has 960 MA's), (342, 27884), (379, 27821), (398, 27782), (399, 27779), (415, 27734), (424, 27722), (430, 27713), (447, 27674), (490, 27569), (570, 27476), (590, 27428), (626, 27365), (643, 27338), (696, 27233), (709, 27206), (729, 27167), (803, 26987), (821, 26939), (855, 26834), (856, 26831), (895, 26774), (900, 26753), (922, 26705), (951, 26630), (990, 26561), (1009, 26519), (1010, 26516), (1013, 26495), (1018, 26480), (1042, 26417), (1066, 26360), (1073, 26348), (1094, 26309), (1100, 26291),

Gene: Applejack_40 Start: 31240, Stop: 29414, Start Num: 228
Candidate Starts for Applejack_40:
(Start: 228 @31240 has 960 MA's), (366, 31027), (410, 30934), (418, 30913), (424, 30907), (430, 30898), (479, 30781), (490, 30754), (570, 30661), (576, 30646), (590, 30613), (621, 30562), (622, 30559), (659, 30493), (680, 30463), (690, 30433), (709, 30388), (729, 30349), (803, 30169), (821, 30121), (836, 30082), (855, 30016), (871, 29977), (895, 29956), (900, 29935), (906, 29917), (935, 29851), (1009, 29701), (1010, 29698), (1018, 29662), (1032, 29638), (1035, 29629), (1039, 29617), (1045, 29590), (1066, 29542), (1079, 29521),

Gene: Applejacks_45 Start: 35267, Stop: 32859, Start Num: 14
Candidate Starts for Applejacks_45:
(4, 35468), (7, 35357), (12, 35279), (14, 35267), (20, 35204), (32, 35081), (52, 34997), (69, 34946), (78, 34910), (82, 34898), (140, 34787), (160, 34754), (167, 34745), (307, 34562), (315, 34541), (358, 34472), (384, 34424), (406, 34367), (419, 34334), (435, 34316), (440, 34301), (447, 34289), (458, 34268), (487, 34205), (560, 34133), (569, 34115), (579, 34088), (630, 33995), (632, 33992), (649, 33962), (664, 33932), (722, 33812), (727, 33785), (767, 33695), (783, 33638), (787, 33629), (804, 33572), (840, 33491), (846, 33467), (848, 33461), (885, 33374), (900, 33353), (906, 33335), (939, 33257), (946, 33245), (953, 33224), (989, 33164), (1000, 33128), (1007, 33110), (1013, 33077), (1022, 33059), (1042, 32999), (1043, 32996), (1059, 32960), (1082, 32909), (1093, 32885),

Gene: ArMaWen_10 Start: 8652, Stop: 6409, Start Num: 163
Candidate Starts for ArMaWen_10:
(118, 8733), (123, 8721), (Start: 163 @8652 has 29 MA's), (247, 8538), (257, 8532), (Start: 285 @8487 has 1 MA's), (388, 8280), (395, 8265), (451, 8112), (457, 8097), (508, 7965), (511, 7944), (514, 7932), (526, 7869), (556, 7788), (571, 7749), (645, 7644), (714, 7491), (753, 7407), (773, 7350), (778, 7332), (802, 7251), (841, 7137), (844, 7125), (857, 7077), (877, 6999), (879, 6990), (910, 6900), (923, 6876), (935, 6846), (970, 6765), (1019, 6627), (1033, 6591), (1035, 6582), (1053, 6534), (1062, 6507), (1066, 6495), (1073, 6483),

Gene: Aragog_37 Start: 30134, Stop: 28275, Start Num: 228
Candidate Starts for Aragog_37:
(Start: 228 @30134 has 960 MA's), (263, 30083), (304, 30023), (343, 29960), (360, 29930), (362, 29927), (396, 29870), (399, 29858), (410, 29828), (424, 29801), (490, 29648), (570, 29552), (590, 29504), (606, 29483), (637, 29420), (643, 29414), (685, 29342), (696, 29309), (703, 29294), (709, 29282), (761, 29183), (803, 29048), (815, 29018), (821, 29000), (830, 28982), (836, 28961), (840, 28952), (855, 28895), (871, 28856), (900, 28814), (906, 28796), (929, 28748), (949, 28697), (977, 28643), (982, 28634), (992, 28616), (1013, 28556), (1022, 28538), (1058, 28445), (1066, 28421), (1073, 28409), (1121, 28292), (1122, 28289),

Gene: AranulaLuti_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for AranulaLuti_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Araxxi_10 Start: 8232, Stop: 6055, Start Num: 145
Candidate Starts for Araxxi_10:
(Start: 145 @8232 has 7 MA's), (179, 8187), (258, 8091), (324, 8004), (347, 7962), (359, 7941), (373, 7914), (388, 7887), (422, 7791), (464, 7677), (499, 7605), (508, 7584), (511, 7563), (515, 7548), (516, 7539), (532, 7479), (551, 7419), (582, 7341), (612, 7320), (642, 7281), (692, 7173), (711, 7128), (730, 7089), (761, 7017), (778, 6963), (807, 6873), (847, 6750), (851, 6738), (857, 6711), (875, 6636), (905, 6534), (913, 6519), (930, 6486), (934, 6474), (940, 6456), (991, 6360), (1010, 6318), (1011, 6309), (1013, 6297), (1018, 6282), (1021, 6273), (1043, 6207), (1048, 6192), (1064, 6153), (1066, 6144), (1073, 6132),

Gene: Arbiter_56 Start: 52589, Stop: 50760, Start Num: 190
Candidate Starts for Arbiter_56:
(Start: 190 @52589 has 336 MA's), (Start: 232 @52562 has 2 MA's), (Start: 255 @52532 has 8 MA's), (261, 52520), (Start: 276 @52493 has 2 MA's), (278, 52490), (284, 52481), (307, 52463), (362, 52367), (390, 52316), (399, 52292), (467, 52130), (482, 52106), (487, 52094), (552, 52037), (569, 52001), (573, 51989), (583, 51965), (630, 51881), (648, 51851), (649, 51848), (664, 51818), (727, 51674), (755, 51608), (775, 51557), (780, 51536), (787, 51518), (804, 51461), (831, 51404), (840, 51377), (848, 51347), (851, 51338), (875, 51272), (897, 51245), (900, 51236), (906, 51218), (919, 51194), (939, 51140), (946, 51128), (953, 51107), (992, 51038), (1013, 50978), (1022, 50960), (1036, 50927), (1040, 50915), (1042, 50900), (1043, 50897), (1047, 50885), (1059, 50861), (1060, 50858), (1082, 50810), (1083, 50807), (1093, 50786), (1100, 50765),

Gene: Arcanine_46 Start: 34538, Stop: 32751, Start Num: 228

Candidate Starts for Arcanine_46:
(Start: 228 @34538 has 960 MA's), (366, 34325), (373, 34310), (410, 34232), (418, 34211), (424, 34205), (430, 34196), (479, 34079), (490, 34052), (570, 33959), (576, 33944), (590, 33911), (621, 33860), (622, 33857), (659, 33791), (680, 33761), (690, 33731), (709, 33686), (729, 33647), (803, 33467), (821, 33419), (836, 33380), (855, 33314), (897, 33242), (900, 33233), (935, 33149), (977, 33062), (1032, 32936), (1036, 32924), (1066, 32840), (1069, 32834),

Gene: ArcherNM_42 Start: 31769, Stop: 29982, Start Num: 228
Candidate Starts for ArcherNM_42:
(Start: 228 @31769 has 960 MA's), (360, 31565), (362, 31562), (366, 31556), (375, 31541), (384, 31526), (399, 31493), (400, 31490), (410, 31463), (424, 31436), (435, 31415), (448, 31385), (490, 31283), (570, 31190), (590, 31142), (595, 31133), (607, 31118), (643, 31052), (686, 30971), (707, 30923), (709, 30917), (778, 30779), (803, 30698), (823, 30647), (835, 30614), (836, 30611), (855, 30545), (871, 30506), (895, 30485), (924, 30410), (949, 30347), (958, 30320), (982, 30284), (992, 30266), (1009, 30230), (1013, 30206), (1038, 30149), (1042, 30128), (1066, 30071), (1073, 30059), (1079, 30050),

Gene: Archetta_38 Start: 30664, Stop: 28820, Start Num: 228
Candidate Starts for Archetta_38:
(Start: 228 @30664 has 960 MA's), (263, 30613), (304, 30553), (343, 30490), (360, 30460), (362, 30457), (396, 30400), (399, 30388), (410, 30358), (424, 30331), (465, 30229), (473, 30214), (490, 30178), (556, 30118), (570, 30082), (590, 30034), (637, 29950), (643, 29944), (685, 29872), (696, 29839), (703, 29824), (709, 29812), (761, 29713), (803, 29578), (815, 29548), (821, 29530), (823, 29527), (836, 29491), (840, 29482), (845, 29461), (848, 29452), (855, 29425), (856, 29422), (895, 29365), (900, 29344), (949, 29227), (977, 29173), (982, 29164), (992, 29146), (1022, 29068), (1041, 29011), (1058, 28975), (1066, 28951), (1073, 28939),

Gene: Ares_57 Start: 52561, Stop: 50732, Start Num: 190
Candidate Starts for Ares_57:
(Start: 190 @52561 has 336 MA's), (Start: 232 @52534 has 2 MA's), (Start: 255 @52504 has 8 MA's), (261, 52492), (Start: 276 @52465 has 2 MA's), (278, 52462), (284, 52453), (307, 52435), (362, 52339), (390, 52288), (399, 52264), (406, 52240), (467, 52102), (482, 52078), (487, 52066), (552, 52009), (569, 51973), (573, 51961), (583, 51937), (630, 51853), (648, 51823), (649, 51820), (664, 51790), (727, 51646), (755, 51580), (771, 51541), (775, 51529), (780, 51508), (787, 51490), (804, 51433), (831, 51376), (840, 51349), (848, 51319), (851, 51310), (875, 51244), (897, 51217), (900, 51208), (906, 51190), (919, 51166), (939, 51112), (946, 51100), (953, 51079), (992, 51010), (1013, 50950), (1022, 50932), (1036, 50899), (1040, 50887), (1042, 50872), (1043, 50869), (1047, 50857), (1059, 50833), (1060, 50830), (1082, 50782), (1083, 50779), (1093, 50758), (1100, 50737),

Gene: Arete_11 Start: 8127, Stop: 5947, Start Num: 145
Candidate Starts for Arete_11:
(Start: 145 @8127 has 7 MA's), (181, 8076), (205, 8046), (235, 8013), (322, 7899), (359, 7833), (373, 7806), (388, 7779), (389, 7776), (422, 7683), (464, 7569), (475, 7542), (499, 7497), (508, 7476), (516, 7431), (532, 7371), (537, 7344), (551, 7311), (612, 7212), (642, 7173), (692, 7065), (711, 7020), (730, 6981), (733, 6975), (761, 6909), (778, 6855), (802, 6774), (807, 6765), (847, 6642), (851, 6630), (857, 6603), (887, 6504), (892, 6480), (913, 6411), (916, 6405), (930, 6378), (934, 6366), (940, 6348), (991, 6252), (1011, 6201), (1018, 6174), (1021, 6165), (1043, 6099), (1064, 6045), (1066, 6036), (1073, 6024),

Gene: Arissanae_44 Start: 32041, Stop: 30248, Start Num: 228
Candidate Starts for Arissanae_44:
(Start: 228 @32041 has 960 MA's), (235, 32032), (317, 31903), (360, 31837), (370, 31819), (384, 31795), (400, 31759), (410, 31732), (415, 31717), (424, 31705), (448, 31654), (489, 31555), (490,

31552), (570, 31459), (579, 31435), (659, 31291), (704, 31195), (733, 31132), (764, 31093), (767, 31087), (803, 30964), (847, 30841), (855, 30811), (871, 30772), (897, 30739), (900, 30730), (906, 30712), (949, 30613), (982, 30550), (990, 30538), (1007, 30505), (1009, 30496), (1042, 30394), (1066, 30337), (1073, 30325), (1079, 30316),

Gene: Arlo_42 Start: 34069, Stop: 32243, Start Num: 228
Candidate Starts for Arlo_42:
(Start: 228 @34069 has 960 MA's), (366, 33856), (399, 33793), (410, 33763), (418, 33742), (424, 33736), (430, 33727), (479, 33610), (490, 33583), (570, 33490), (576, 33475), (621, 33391), (622, 33388), (659, 33322), (680, 33292), (690, 33262), (709, 33217), (729, 33178), (803, 32998), (821, 32950), (836, 32911), (855, 32845), (871, 32806), (895, 32785), (900, 32764), (906, 32746), (935, 32680), (1009, 32530), (1010, 32527), (1018, 32491), (1032, 32467), (1035, 32458), (1039, 32446), (1066, 32371), (1079, 32350),

Gene: Armstrong_40 Start: 27439, Stop: 29307, Start Num: 215
Candidate Starts for Armstrong_40:
(Start: 215 @27439 has 12 MA's), (Start: 217 @27442 has 68 MA's), (220, 27445), (Start: 273 @27514 has 1 MA's), (436, 27796), (448, 27823), (473, 27877), (585, 28042), (626, 28117), (637, 28138), (784, 28492), (803, 28552), (823, 28603), (845, 28669), (855, 28705), (898, 28798), (973, 28969), (1009, 29041), (1038, 29122), (1065, 29197), (1066, 29200), (1079, 29221), (1108, 29290),

Gene: Arroyo_43 Start: 30004, Stop: 31878, Start Num: 217
Candidate Starts for Arroyo_43:
(Start: 217 @30004 has 68 MA's), (Start: 273 @30073 has 1 MA's), (Start: 285 @30094 has 1 MA's), (430, 30340), (436, 30355), (448, 30382), (626, 30676), (696, 30811), (741, 30910), (784, 31033), (803, 31093), (806, 31099), (823, 31144), (830, 31159), (833, 31174), (845, 31210), (855, 31246), (898, 31339), (936, 31432), (973, 31510), (1009, 31582), (1018, 31621), (1038, 31663), (1041, 31681), (1058, 31717), (1066, 31741), (1079, 31762),

Gene: Artemis2UCLA_45 Start: 29324, Stop: 27483, Start Num: 228
Candidate Starts for Artemis2UCLA_45:
(Start: 200 @29354 has 1 MA's), (Start: 228 @29324 has 960 MA's), (360, 29120), (399, 29045), (400, 29042), (410, 29015), (415, 29000), (424, 28988), (448, 28937), (485, 28847), (490, 28835), (570, 28742), (585, 28703), (595, 28685), (607, 28670), (643, 28604), (660, 28571), (663, 28568), (710, 28466), (742, 28406), (778, 28322), (803, 28241), (835, 28157), (836, 28154), (840, 28145), (847, 28118), (855, 28088), (895, 28028), (906, 27989), (1009, 27773), (1010, 27770), (1013, 27749), (1066, 27614), (1073, 27602), (1079, 27593), (1082, 27590), (1115, 27497),

Gene: Artu_91 Start: 75022, Stop: 76743, Start Num: 285
Candidate Starts for Artu_91:
(Start: 238 @74947 has 11 MA's), (261, 74980), (Start: 273 @75001 has 1 MA's), (Start: 276 @75010 has 2 MA's), (Start: 285 @75022 has 1 MA's), (429, 75259), (439, 75286), (442, 75292), (544, 75427), (613, 75544), (626, 75571), (629, 75577), (633, 75586), (666, 75640), (729, 75772), (737, 75793), (755, 75820), (774, 75868), (783, 75901), (798, 75940), (803, 75961), (806, 75967), (835, 76051), (845, 76084), (870, 76168), (871, 76171), (898, 76234), (902, 76246), (919, 76282), (931, 76312), (932, 76315), (953, 76369), (960, 76387), (1002, 76471), (1009, 76492), (1014, 76519), (1022, 76534), (1038, 76573), (1041, 76591), (1045, 76603), (1049, 76615), (1053, 76618), (1066, 76651), (1083, 76678),

Gene: Arturo_44 Start: 31826, Stop: 30000, Start Num: 228
Candidate Starts for Arturo_44:
(Start: 228 @31826 has 960 MA's), (Start: 241 @31805 has 3 MA's), (263, 31775), (278, 31745), (384, 31583), (394, 31565), (424, 31493), (430, 31484), (480, 31364), (490, 31340), (570, 31247), (592,

31199), (626, 31139), (696, 31007), (707, 30986), (729, 30941), (733, 30929), (798, 30776), (803, 30755), (847, 30632), (855, 30602), (871, 30563), (900, 30497), (901, 30494), (906, 30479), (919, 30455), (929, 30431), (1013, 30224), (1066, 30089), (1073, 30077), (1079, 30068),

Gene: Asa16_39 Start: 30354, Stop: 32219, Start Num: 228
Candidate Starts for Asa16_39:
(Start: 228 @30354 has 960 MA's), (261, 30402), (383, 30585), (386, 30591), (410, 30651), (418, 30672), (452, 30741), (576, 30957), (622, 31047), (626, 31056), (633, 31071), (660, 31116), (707, 31209), (768, 31347), (803, 31467), (815, 31497), (836, 31554), (853, 31611), (855, 31620), (867, 31644), (898, 31713), (929, 31785), (932, 31794), (977, 31893), (1009, 31956), (1066, 32115), (1071, 32124),

Gene: Ascela_41 Start: 29607, Stop: 31472, Start Num: 228
Candidate Starts for Ascela_41:
(Start: 228 @29607 has 960 MA's), (261, 29655), (366, 29820), (410, 29904), (452, 29994), (572, 30201), (576, 30210), (622, 30300), (626, 30309), (633, 30324), (707, 30462), (768, 30600), (803, 30720), (815, 30750), (836, 30807), (855, 30873), (898, 30966), (929, 31038), (1066, 31368), (1071, 31377),

Gene: Ashballer_46 Start: 35324, Stop: 33498, Start Num: 228
Candidate Starts for Ashballer_46:
(Start: 228 @35324 has 960 MA's), (366, 35111), (373, 35096), (410, 35018), (418, 34997), (424, 34991), (430, 34982), (479, 34865), (490, 34838), (570, 34745), (576, 34730), (590, 34697), (621, 34646), (622, 34643), (659, 34577), (680, 34547), (690, 34517), (709, 34472), (729, 34433), (803, 34253), (821, 34205), (836, 34166), (855, 34100), (871, 34061), (895, 34040), (900, 34019), (906, 34001), (935, 33935), (1009, 33785), (1010, 33782), (1018, 33746), (1032, 33722), (1035, 33713), (1039, 33701), (1045, 33674), (1066, 33626), (1079, 33605),

Gene: Ashes_38 Start: 27734, Stop: 29716, Start Num: 227
Candidate Starts for Ashes_38:
(Start: 227 @27734 has 33 MA's), (343, 27908), (360, 27938), (386, 27971), (400, 28004), (435, 28079), (447, 28106), (489, 28208), (544, 28307), (626, 28481), (643, 28508), (707, 28637), (768, 28775), (795, 28862), (803, 28895), (815, 28925), (836, 28982), (855, 29048), (898, 29141), (934, 29228), (1013, 29408), (1024, 29432), (1066, 29543), (1114, 29651),

Gene: Ashraf_62 Start: 54257, Stop: 52398, Start Num: 190
Candidate Starts for Ashraf_62:
(Start: 173 @54281 has 3 MA's), (Start: 190 @54257 has 336 MA's), (Start: 222 @54233 has 3 MA's), (Start: 232 @54227 has 2 MA's), (261, 54185), (274, 54164), (336, 54050), (339, 54044), (355, 54014), (390, 53954), (398, 53933), (416, 53879), (429, 53867), (436, 53849), (440, 53837), (487, 53732), (552, 53675), (569, 53639), (573, 53627), (583, 53603), (590, 53591), (601, 53573), (611, 53555), (622, 53537), (643, 53498), (648, 53489), (649, 53486), (651, 53483), (761, 53228), (796, 53126), (804, 53093), (812, 53072), (848, 52979), (851, 52970), (877, 52907), (900, 52871), (901, 52868), (906, 52853), (939, 52775), (946, 52763), (953, 52742), (976, 52703), (1013, 52613), (1022, 52595), (1024, 52589), (1032, 52574), (1040, 52550), (1042, 52535), (1043, 52532), (1047, 52520), (1059, 52496), (1066, 52475), (1082, 52448), (1093, 52424),

Gene: Ashton_10 Start: 8359, Stop: 6110, Start Num: 163
Candidate Starts for Ashton_10:
(40, 8689), (83, 8539), (93, 8503), (98, 8488), (129, 8416), (Start: 163 @8359 has 29 MA's), (170, 8350), (235, 8260), (258, 8230), (261, 8224), (299, 8170), (341, 8119), (402, 7996), (422, 7939), (430, 7915), (464, 7831), (482, 7792), (493, 7762), (508, 7720), (511, 7699), (515, 7684), (516, 7675), (544, 7582), (570, 7519), (620, 7387), (647, 7333), (692, 7234), (714, 7183), (753, 7099), (778, 7024), (799,

6952), (844, 6814), (857, 6766), (858, 6763), (862, 6733), (898, 6613), (930, 6547), (1013, 6337), (1020, 6316), (1037, 6274), (1043, 6247), (1064, 6202), (1066, 6193), (1073, 6181),

Gene: Asis_48 Start: 39369, Stop: 37369, Start Num: 298
Candidate Starts for Asis_48:
(Start: 298 @39369 has 15 MA's), (343, 39300), (409, 39168), (411, 39162), (413, 39156), (435, 39108), (439, 39096), (442, 39090), (451, 39069), (456, 39054), (486, 38985), (527, 38844), (568, 38748), (609, 38661), (625, 38637), (631, 38625), (639, 38613), (679, 38544), (733, 38397), (781, 38292), (787, 38277), (806, 38220), (814, 38199), (828, 38157), (838, 38127), (847, 38094), (861, 38040), (870, 38010), (891, 37941), (895, 37920), (919, 37857), (926, 37839), (931, 37827), (939, 37803), (1013, 37602), (1014, 37599), (1024, 37578), (1039, 37545), (1042, 37527), (1058, 37494), (1066, 37470), (1092, 37422),

Gene: Asta_38 Start: 28632, Stop: 26767, Start Num: 301
Candidate Starts for Asta_38:
(Start: 241 @28719 has 3 MA's), (Start: 301 @28632 has 153 MA's), (Start: 305 @28623 has 5 MA's), (353, 28518), (360, 28509), (378, 28479), (380, 28476), (435, 28356), (439, 28344), (442, 28338), (483, 28233), (494, 28206), (582, 28065), (585, 28059), (586, 28056), (590, 28044), (606, 28017), (607, 28014), (614, 27999), (618, 27993), (621, 27987), (638, 27954), (701, 27825), (726, 27765), (847, 27450), (850, 27441), (851, 27438), (855, 27420), (873, 27378), (877, 27372), (888, 27348), (908, 27291), (974, 27132), (989, 27102), (992, 27093), (1010, 27033), (1013, 27009), (1028, 26970), (1040, 26937), (1044, 26925), (1068, 26865),

Gene: Astartes_10 Start: 8385, Stop: 6187, Start Num: 161
Candidate Starts for Astartes_10:
(Start: 161 @8385 has 21 MA's), (235, 8295), (258, 8265), (261, 8259), (299, 8205), (341, 8154), (356, 8124), (402, 8031), (422, 7974), (430, 7950), (464, 7866), (482, 7827), (516, 7710), (544, 7617), (571, 7551), (605, 7506), (606, 7503), (654, 7419), (682, 7368), (692, 7335), (714, 7284), (723, 7260), (724, 7257), (753, 7176), (761, 7155), (844, 6891), (857, 6843), (858, 6840), (875, 6768), (880, 6753), (898, 6690), (913, 6660), (1011, 6426), (1013, 6414), (1020, 6393), (1035, 6357), (1036, 6354), (1043, 6324), (1053, 6309), (1064, 6279), (1066, 6270), (1073, 6258),

Gene: Astro_42 Start: 30542, Stop: 28698, Start Num: 228
Candidate Starts for Astro_42:
(119, 30707), (Start: 228 @30542 has 960 MA's), (263, 30491), (343, 30368), (360, 30338), (384, 30299), (399, 30266), (410, 30236), (418, 30215), (424, 30209), (430, 30200), (448, 30158), (465, 30107), (489, 30059), (490, 30056), (570, 29960), (580, 29933), (587, 29915), (590, 29912), (595, 29903), (626, 29849), (643, 29822), (670, 29774), (696, 29717), (709, 29690), (733, 29639), (744, 29624), (798, 29477), (803, 29456), (815, 29426), (821, 29408), (823, 29405), (830, 29390), (836, 29369), (840, 29360), (847, 29333), (851, 29321), (855, 29303), (900, 29222), (904, 29210), (929, 29156), (942, 29120), (955, 29084), (977, 29051), (990, 29030), (992, 29024), (1010, 28985), (1013, 28964), (1022, 28946), (1066, 28829), (1073, 28817),

Gene: Athena_60 Start: 54420, Stop: 52603, Start Num: 230
Candidate Starts for Athena_60:
(110, 54603), (Start: 230 @54420 has 52 MA's), (249, 54390), (366, 54210), (435, 54057), (439, 54045), (452, 54015), (458, 54009), (487, 53946), (489, 53940), (552, 53889), (569, 53853), (590, 53805), (649, 53700), (694, 53604), (722, 53553), (775, 53409), (787, 53370), (797, 53340), (804, 53313), (810, 53301), (846, 53205), (848, 53199), (851, 53190), (854, 53178), (883, 53106), (900, 53076), (906, 53058), (912, 53049), (939, 52980), (946, 52968), (953, 52947), (992, 52878), (1002, 52863), (1010, 52839), (1013, 52818), (1024, 52794), (1040, 52755), (1043, 52737), (1047, 52725), (1054, 52713), (1059, 52701), (1078, 52659), (1093, 52629),

Gene: Atkinbua_46 Start: 34825, Stop: 32999, Start Num: 228
Candidate Starts for Atkinbua_46:
(Start: 228 @34825 has 960 MA's), (366, 34612), (410, 34519), (418, 34498), (424, 34492), (430, 34483), (479, 34366), (490, 34339), (570, 34246), (576, 34231), (621, 34147), (622, 34144), (659, 34078), (680, 34048), (690, 34018), (709, 33973), (729, 33934), (803, 33754), (821, 33706), (836, 33667), (855, 33601), (871, 33562), (895, 33541), (900, 33520), (906, 33502), (935, 33436), (1009, 33286), (1010, 33283), (1018, 33247), (1035, 33214), (1039, 33202), (1066, 33127), (1079, 33106),

Gene: Atraxi_10 Start: 8354, Stop: 6150, Start Num: 163
Candidate Starts for Atraxi_10:
(83, 8534), (98, 8483), (129, 8411), (Start: 163 @8354 has 29 MA's), (235, 8264), (258, 8234), (261, 8228), (Start: 285 @8192 has 1 MA's), (341, 8117), (402, 7994), (422, 7937), (464, 7829), (482, 7790), (516, 7673), (544, 7580), (548, 7568), (571, 7514), (587, 7472), (624, 7439), (654, 7382), (682, 7331), (692, 7298), (714, 7247), (723, 7223), (724, 7220), (753, 7139), (761, 7118), (844, 6854), (857, 6806), (875, 6731), (880, 6716), (898, 6653), (913, 6623), (1011, 6389), (1013, 6377), (1020, 6356), (1035, 6320), (1036, 6317), (1043, 6287), (1053, 6272), (1064, 6242), (1066, 6233), (1073, 6221),

Gene: Attoomi_34 Start: 26889, Stop: 28748, Start Num: 228
Candidate Starts for Attoomi_34:
(189, 26838), (Start: 228 @26889 has 960 MA's), (362, 27099), (373, 27120), (390, 27144), (416, 27216), (430, 27234), (435, 27246), (458, 27306), (473, 27342), (492, 27384), (572, 27474), (587, 27513), (607, 27546), (618, 27567), (626, 27585), (633, 27600), (643, 27612), (655, 27633), (681, 27672), (686, 27690), (690, 27699), (696, 27717), (697, 27720), (707, 27738), (729, 27783), (736, 27801), (738, 27807), (741, 27816), (761, 27861), (780, 27924), (781, 27927), (806, 28002), (833, 28077), (840, 28092), (843, 28107), (846, 28116), (855, 28149), (879, 28203), (929, 28314), (932, 28323), (990, 28443), (1007, 28476), (1014, 28512), (1062, 28632), (1066, 28644), (1069, 28650), (1113, 28740),

Gene: Atuin_93 Start: 78349, Stop: 80142, Start Num: 238
Candidate Starts for Atuin_93:
(Start: 238 @78349 has 11 MA's), (Start: 273 @78403 has 1 MA's), (Start: 276 @78412 has 2 MA's), (Start: 285 @78424 has 1 MA's), (413, 78643), (429, 78661), (439, 78688), (442, 78694), (493, 78799), (613, 78946), (626, 78973), (633, 78988), (666, 79042), (767, 79243), (774, 79270), (783, 79303), (798, 79342), (803, 79363), (806, 79369), (845, 79486), (870, 79570), (871, 79573), (898, 79636), (902, 79648), (919, 79684), (932, 79717), (953, 79771), (960, 79789), (1009, 79894), (1014, 79921), (1022, 79936), (1036, 79969), (1038, 79975), (1041, 79993), (1045, 80005), (1049, 80017), (1053, 80020), (1066, 80053), (1094, 80104),

Gene: Aubergine_38 Start: 28632, Stop: 26767, Start Num: 301
Candidate Starts for Aubergine_38:
(Start: 241 @28719 has 3 MA's), (Start: 243 @28716 has 1 MA's), (Start: 301 @28632 has 153 MA's), (Start: 305 @28623 has 5 MA's), (353, 28518), (360, 28509), (378, 28479), (380, 28476), (435, 28356), (439, 28344), (442, 28338), (483, 28233), (494, 28206), (582, 28065), (585, 28059), (586, 28056), (590, 28044), (606, 28017), (607, 28014), (614, 27999), (618, 27993), (621, 27987), (638, 27954), (701, 27825), (726, 27765), (847, 27450), (850, 27441), (851, 27438), (855, 27420), (873, 27378), (877, 27372), (879, 27363), (888, 27348), (908, 27291), (974, 27132), (989, 27102), (992, 27093), (1010, 27033), (1013, 27009), (1028, 26970), (1040, 26937), (1044, 26925), (1068, 26865),

Gene: Audell_40 Start: 31335, Stop: 29554, Start Num: 221
Candidate Starts for Audell_40:
(191, 31377), (196, 31371), (Start: 221 @31335 has 14 MA's), (247, 31296), (274, 31254), (439, 30972), (448, 30954), (483, 30885), (493, 30861), (544, 30831), (570, 30792), (573, 30783), (613, 30711), (626, 30684), (633, 30669), (672, 30606), (697, 30549), (709, 30525), (712, 30519), (729,

30483), (733, 30471), (748, 30447), (798, 30333), (803, 30312), (806, 30306), (822, 30261), (841, 30210), (848, 30186), (855, 30159), (871, 30120), (887, 30093), (919, 30009), (932, 29976), (949, 29934), (951, 29928), (958, 29907), (986, 29853), (991, 29838), (1006, 29811), (1014, 29772), (1029, 29742), (1038, 29715), (1042, 29694), (1043, 29691), (1049, 29673), (1059, 29658), (1101, 29565),

Gene: Audrey_58 Start: 53676, Stop: 51859, Start Num: 230
Candidate Starts for Audrey_58:
(110, 53859), (Start: 230 @53676 has 52 MA's), (249, 53646), (366, 53466), (435, 53313), (439, 53301), (452, 53271), (458, 53265), (487, 53202), (489, 53196), (552, 53145), (569, 53109), (590, 53061), (649, 52956), (694, 52860), (722, 52809), (775, 52665), (787, 52626), (797, 52596), (804, 52569), (810, 52557), (846, 52461), (848, 52455), (851, 52446), (854, 52434), (883, 52362), (900, 52332), (906, 52314), (912, 52305), (939, 52236), (946, 52224), (953, 52203), (992, 52134), (1002, 52119), (1010, 52095), (1013, 52074), (1024, 52050), (1040, 52011), (1043, 51993), (1047, 51981), (1054, 51969), (1059, 51957), (1078, 51915), (1093, 51885),

Gene: AugsMagnumOpus_51 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for AugsMagnumOpus_51:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: Austelle_54 Start: 54652, Stop: 52829, Start Num: 182
Candidate Starts for Austelle_54:
(Start: 163 @54670 has 29 MA's), (Start: 182 @54652 has 33 MA's), (Start: 232 @54628 has 2 MA's), (249, 54601), (261, 54586), (274, 54565), (324, 54478), (386, 54373), (402, 54331), (436, 54265), (449, 54235), (452, 54226), (457, 54223), (458, 54220), (467, 54193), (552, 54100), (560, 54082), (569, 54064), (573, 54052), (580, 54037), (585, 54025), (622, 53962), (643, 53923), (648, 53914), (649, 53911), (664, 53881), (685, 53845), (775, 53620), (776, 53617), (787, 53581), (796, 53557), (804, 53524), (846, 53416), (848, 53410), (851, 53401), (900, 53302), (901, 53299), (906, 53284), (939, 53206), (946, 53194), (953, 53173), (955, 53164), (976, 53134), (992, 53104), (1007, 53077), (1013, 53044), (1024, 53020), (1040, 52981), (1043, 52963), (1047, 52951), (1059, 52927), (1078, 52885), (1082, 52879), (1093, 52855),

Gene: AvGardian_44 Start: 29897, Stop: 31789, Start Num: 217
Candidate Starts for AvGardian_44:
(Start: 217 @29897 has 68 MA's), (Start: 273 @29966 has 1 MA's), (Start: 285 @29987 has 1 MA's), (414, 30209), (430, 30233), (435, 30245), (436, 30248), (590, 30503), (626, 30569), (741, 30821), (784, 30944), (796, 30974), (803, 31004), (806, 31010), (823, 31055), (833, 31085), (845, 31121), (848, 31130), (855, 31157), (898, 31250), (936, 31343), (973, 31421), (975, 31424), (1009, 31493), (1013, 31517), (1018, 31532), (1038, 31574), (1066, 31652), (1079, 31673), (1082, 31676), (1090, 31697),

Gene: AvatarAhPeg_44 Start: 32048, Stop: 30219, Start Num: 228
Candidate Starts for AvatarAhPeg_44:
(Start: 228 @32048 has 960 MA's), (263, 31997), (384, 31805), (394, 31787), (424, 31715), (430, 31706), (480, 31586), (490, 31562), (570, 31469), (592, 31421), (607, 31400), (626, 31361), (654, 31316), (657, 31310), (696, 31229), (701, 31220), (707, 31208), (729, 31163), (733, 31151), (803, 30977), (840, 30881), (847, 30854), (848, 30851), (855, 30824), (871, 30785), (900, 30716), (901, 30713), (906, 30698), (919, 30674), (929, 30650), (931, 30644), (1013, 30443), (1066, 30308), (1073, 30296), (1079, 30287),

Gene: Avle17_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Avle17_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Avocadoman_41 Start: 29025, Stop: 30899, Start Num: 217
Candidate Starts for Avocadoman_41:
(Start: 217 @29025 has 68 MA's), (Start: 285 @29115 has 1 MA's), (430, 29361), (436, 29376), (448, 29403), (626, 29697), (696, 29832), (741, 29931), (784, 30054), (803, 30114), (806, 30120), (823, 30165), (830, 30180), (833, 30195), (845, 30231), (855, 30267), (898, 30360), (936, 30453), (973, 30531), (1009, 30603), (1018, 30642), (1038, 30684), (1041, 30702), (1058, 30738), (1066, 30762), (1079, 30783),

Gene: AxiPup_39 Start: 28904, Stop: 27039, Start Num: 301
Candidate Starts for AxiPup_39:
(Start: 241 @28991 has 3 MA's), (Start: 243 @28988 has 1 MA's), (Start: 301 @28904 has 153 MA's), (Start: 305 @28895 has 5 MA's), (353, 28790), (360, 28781), (378, 28751), (380, 28748), (435, 28628), (439, 28616), (442, 28610), (483, 28505), (494, 28478), (582, 28337), (585, 28331), (586, 28328), (590, 28316), (606, 28289), (607, 28286), (614, 28271), (618, 28265), (621, 28259), (638, 28226), (701, 28097), (726, 28037), (758, 27962), (847, 27722), (850, 27713), (851, 27710), (855, 27692), (873, 27650), (877, 27644), (879, 27635), (888, 27620), (908, 27563), (974, 27404), (989, 27374), (992, 27365), (1010, 27305), (1013, 27281), (1028, 27242), (1040, 27209), (1044, 27197), (1068, 27137),

Gene: Axumite_51 Start: 45981, Stop: 44164, Start Num: 225
Candidate Starts for Axumite_51:
(53, 46302), (61, 46278), (Start: 225 @45981 has 16 MA's), (249, 45945), (261, 45930), (278, 45900), (351, 45774), (411, 45651), (416, 45636), (440, 45594), (487, 45498), (569, 45405), (635, 45276), (649, 45252), (780, 44940), (787, 44922), (804, 44865), (848, 44751), (851, 44742), (877, 44679), (901, 44640), (906, 44625), (939, 44547), (946, 44535), (953, 44514), (955, 44505), (1007, 44418), (1014, 44382), (1018, 44370), (1037, 44331), (1040, 44322), (1042, 44307), (1059, 44262), (1082, 44214), (1093, 44190),

Gene: Ayanochan_44 Start: 31538, Stop: 29745, Start Num: 228
Candidate Starts for Ayanochan_44:
(Start: 228 @31538 has 960 MA's), (235, 31529), (263, 31487), (342, 31367), (343, 31364), (370, 31316), (400, 31256), (411, 31226), (415, 31214), (424, 31202), (490, 31049), (570, 30956), (643, 30818), (659, 30788), (733, 30629), (742, 30617), (764, 30590), (798, 30482), (803, 30461), (851, 30326), (855, 30308), (900, 30227), (919, 30185), (949, 30110), (990, 30035), (1009, 29993), (1042, 29891), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: AylexOG_44 Start: 29970, Stop: 31844, Start Num: 217
Candidate Starts for AylexOG_44:
(Start: 215 @29967 has 12 MA's), (Start: 217 @29970 has 68 MA's), (Start: 273 @30039 has 1 MA's), (Start: 285 @30060 has 1 MA's), (360, 30177), (399, 30240), (430, 30306), (448, 30348), (626, 30642), (696, 30777), (741, 30876), (784, 30999), (803, 31059), (806, 31065), (823, 31110), (830, 31125), (833, 31140), (845, 31176), (855, 31212), (898, 31305), (936, 31398), (973, 31476), (1009, 31548), (1018, 31587), (1038, 31629), (1041, 31647), (1066, 31707), (1079, 31728),

Gene: B1_42 Start: 30729, Stop: 28891, Start Num: 228
Candidate Starts for B1_42:
(171, 30801), (Start: 228 @30729 has 960 MA's), (263, 30678), (360, 30525), (384, 30486), (399, 30453), (424, 30396), (430, 30387), (435, 30375), (480, 30267), (490, 30243), (570, 30147), (592, 30099), (626, 30039), (696, 29907), (707, 29886), (742, 29817), (767, 29772), (778, 29730), (803, 29649), (836, 29562), (847, 29526), (855, 29496), (901, 29385), (919, 29346), (929, 29322), (935, 29304), (990, 29181), (992, 29175), (1013, 29115), (1065, 28983), (1066, 28980), (1073, 28968), (1079, 28959),

Gene: BABullseye_43 Start: 29170, Stop: 27329, Start Num: 228
Candidate Starts for BABullseye_43:
(Start: 228 @29170 has 960 MA's), (360, 28966), (399, 28891), (400, 28888), (410, 28861), (415, 28846), (424, 28834), (448, 28783), (485, 28693), (490, 28681), (570, 28588), (585, 28549), (595, 28531), (607, 28516), (643, 28450), (660, 28417), (663, 28414), (710, 28312), (742, 28252), (778, 28168), (803, 28087), (835, 28003), (836, 28000), (840, 27991), (847, 27964), (855, 27934), (895, 27874), (906, 27835), (1009, 27619), (1010, 27616), (1013, 27595), (1066, 27460), (1073, 27448), (1079, 27439), (1082, 27436), (1115, 27343),

Gene: BAjuniper_43 Start: 30818, Stop: 32689, Start Num: 217
Candidate Starts for BAjuniper_43:
(Start: 217 @30818 has 68 MA's), (Start: 285 @30908 has 1 MA's), (343, 30995), (360, 31025), (430, 31154), (605, 31445), (626, 31490), (633, 31505), (686, 31598), (784, 31844), (803, 31904), (823, 31955), (830, 31970), (845, 32021), (848, 32030), (855, 32057), (898, 32150), (929, 32222), (936, 32243), (973, 32321), (975, 32324), (1009, 32393), (1038, 32474), (1040, 32480), (1058, 32528), (1066, 32552), (1079, 32573), (1090, 32597),

Gene: BFK20_ORF44 Start: 37992, Stop: 36088, Start Num: 194
Candidate Starts for BFK20_ORF44:
(Start: 194 @37992 has 4 MA's), (Start: 241 @37932 has 3 MA's), (261, 37905), (274, 37881), (Start: 276 @37875 has 2 MA's), (302, 37833), (315, 37800), (338, 37758), (340, 37743), (358, 37710), (362, 37704), (410, 37599), (416, 37581), (435, 37557), (440, 37542), (447, 37530), (476, 37461), (545, 37392), (558, 37374), (569, 37350), (580, 37323), (649, 37194), (651, 37191), (664, 37164), (713, 37068), (718, 37056), (721, 37050), (783, 36873), (804, 36807), (848, 36690), (902, 36576), (906, 36564), (926, 36522), (929, 36516), (935, 36498), (939, 36486), (946, 36474), (953, 36453), (977, 36411), (989, 36393), (1001, 36357), (1014, 36306), (1040, 36246), (1059, 36192), (1066, 36171), (1093, 36114),

Gene: BK1_41 Start: 33551, Stop: 31725, Start Num: 228
Candidate Starts for BK1_41:
(Start: 228 @33551 has 960 MA's), (366, 33338), (373, 33323), (399, 33275), (410, 33245), (418, 33224), (424, 33218), (430, 33209), (462, 33125), (465, 33116), (479, 33092), (490, 33065), (570, 32972), (576, 32957), (583, 32936), (590, 32924), (621, 32873), (622, 32870), (654, 32816), (659, 32804), (680, 32774), (690, 32744), (709, 32699), (729, 32660), (803, 32480), (821, 32432), (836, 32393), (855, 32327), (871, 32288), (895, 32267), (900, 32246), (906, 32228), (935, 32162), (1009, 32012), (1010, 32009), (1018, 31973), (1032, 31949), (1035, 31940), (1039, 31928), (1066, 31853), (1079, 31832),

Gene: BPBiebs31_45 Start: 34673, Stop: 32844, Start Num: 228
Candidate Starts for BPBiebs31_45:
(Start: 228 @34673 has 960 MA's), (366, 34460), (399, 34397), (410, 34367), (418, 34346), (424, 34340), (430, 34331), (479, 34214), (490, 34187), (570, 34094), (576, 34079), (621, 33995), (622, 33992), (659, 33926), (680, 33896), (690, 33866), (709, 33821), (729, 33782), (803, 33602), (821, 33554), (840, 33506), (851, 33467), (855, 33449), (871, 33410), (895, 33389), (900, 33368), (905,

33353), (955, 33230), (1036, 33059), (1041, 33035), (1062, 32987), (1066, 32975), (1079, 32954), (1083, 32948), (1102, 32900), (1109, 32885),

Gene: BRock_133 Start: 70485, Stop: 72557, Start Num: 255
Candidate Starts for BRock_133:
(Start: 217 @70437 has 68 MA's), (Start: 226 @70449 has 1 MA's), (234, 70458), (237, 70461), (Start: 255 @70485 has 8 MA's), (308, 70575), (331, 70626), (334, 70629), (342, 70641), (360, 70674), (428, 70845), (444, 70884), (456, 70920), (535, 71040), (561, 71094), (564, 71097), (626, 71229), (629, 71235), (637, 71250), (668, 71301), (806, 71685), (839, 71802), (843, 71820), (879, 71916), (887, 71928), (896, 71982), (919, 72042), (923, 72051), (926, 72060), (941, 72102), (981, 72186), (986, 72204), (991, 72219), (999, 72246), (1018, 72318), (1022, 72321), (1065, 72465), (1088, 72519),

Gene: Baby16_45 Start: 31581, Stop: 29755, Start Num: 228
Candidate Starts for Baby16_45:
(Start: 228 @31581 has 960 MA's), (Start: 241 @31560 has 3 MA's), (263, 31530), (278, 31500), (384, 31338), (394, 31320), (424, 31248), (430, 31239), (480, 31119), (490, 31095), (570, 31002), (592, 30954), (607, 30933), (626, 30894), (696, 30762), (707, 30741), (729, 30696), (733, 30684), (798, 30531), (803, 30510), (847, 30387), (855, 30357), (871, 30318), (900, 30252), (901, 30249), (906, 30234), (919, 30210), (929, 30186), (1013, 29979), (1066, 29844), (1073, 29832), (1079, 29823),

Gene: BabyBack_43 Start: 31842, Stop: 30049, Start Num: 228
Candidate Starts for BabyBack_43:
(99, 32046), (Start: 228 @31842 has 960 MA's), (399, 31563), (400, 31560), (410, 31533), (415, 31518), (424, 31506), (430, 31497), (485, 31365), (490, 31353), (570, 31260), (590, 31212), (595, 31203), (607, 31188), (643, 31122), (668, 31077), (686, 31041), (803, 30765), (835, 30681), (847, 30642), (855, 30612), (871, 30573), (897, 30540), (900, 30531), (1009, 30297), (1042, 30195), (1066, 30138), (1073, 30126), (1079, 30117),

Gene: BabyDaisy_42 Start: 29859, Stop: 31733, Start Num: 217
Candidate Starts for BabyDaisy_42:
(Start: 215 @29856 has 12 MA's), (Start: 217 @29859 has 68 MA's), (Start: 273 @29928 has 1 MA's), (Start: 285 @29949 has 1 MA's), (430, 30195), (473, 30291), (626, 30531), (741, 30765), (783, 30885), (784, 30888), (803, 30948), (806, 30954), (830, 31014), (833, 31029), (845, 31065), (855, 31101), (898, 31194), (973, 31365), (975, 31368), (1009, 31437), (1018, 31476), (1038, 31518), (1041, 31536), (1058, 31572), (1066, 31596), (1079, 31617),

Gene: BabyGotBac_49 Start: 39369, Stop: 37369, Start Num: 298
Candidate Starts for BabyGotBac_49:
(Start: 298 @39369 has 15 MA's), (343, 39300), (409, 39168), (411, 39162), (413, 39156), (435, 39108), (439, 39096), (442, 39090), (451, 39069), (456, 39054), (486, 38985), (527, 38844), (568, 38748), (609, 38661), (625, 38637), (631, 38625), (639, 38613), (679, 38544), (733, 38397), (781, 38292), (787, 38277), (806, 38220), (814, 38199), (828, 38157), (838, 38127), (847, 38094), (861, 38040), (870, 38010), (891, 37941), (895, 37920), (919, 37857), (926, 37839), (931, 37827), (939, 37803), (1013, 37602), (1014, 37599), (1039, 37545), (1042, 37527), (1058, 37494), (1066, 37470), (1092, 37422),

Gene: BabyJohn_43 Start: 31521, Stop: 29683, Start Num: 228
Candidate Starts for BabyJohn_43:
(171, 31593), (Start: 228 @31521 has 960 MA's), (263, 31470), (360, 31317), (384, 31278), (399, 31245), (424, 31188), (430, 31179), (435, 31167), (480, 31059), (490, 31035), (493, 31026), (570, 30939), (592, 30891), (626, 30831), (663, 30768), (707, 30678), (767, 30564), (803, 30441), (836, 30354), (847, 30318), (855, 30288), (901, 30177), (919, 30138), (929, 30114), (935, 30096), (936, 30093), (990, 29973), (992, 29967), (1013, 29907), (1065, 29775), (1066, 29772), (1073, 29760),

(1079, 29751),

Gene: BabyRay_45 Start: 31465, Stop: 29627, Start Num: 228
Candidate Starts for BabyRay_45:
(Start: 228 @31465 has 960 MA's), (263, 31414), (360, 31261), (366, 31252), (396, 31201), (399, 31189), (424, 31132), (430, 31123), (480, 31003), (485, 30991), (490, 30979), (570, 30883), (592, 30835), (626, 30775), (663, 30712), (696, 30643), (707, 30622), (742, 30553), (746, 30547), (767, 30508), (803, 30385), (836, 30298), (847, 30262), (855, 30232), (869, 30202), (901, 30121), (919, 30082), (929, 30058), (935, 30040), (992, 29911), (1013, 29851), (1066, 29716), (1073, 29704), (1079, 29695),

Gene: BabyYoda_43 Start: 30631, Stop: 32505, Start Num: 217
Candidate Starts for BabyYoda_43:
(Start: 217 @30631 has 68 MA's), (Start: 273 @30700 has 1 MA's), (Start: 285 @30721 has 1 MA's), (399, 30901), (430, 30967), (436, 30982), (448, 31009), (626, 31303), (741, 31537), (783, 31657), (784, 31660), (803, 31720), (806, 31726), (823, 31771), (830, 31786), (833, 31801), (845, 31837), (855, 31873), (898, 31966), (936, 32059), (973, 32137), (975, 32140), (1009, 32209), (1013, 32233), (1018, 32248), (1038, 32290), (1041, 32308), (1066, 32368), (1079, 32389),

Gene: Bachaco_40 Start: 30596, Stop: 32467, Start Num: 217
Candidate Starts for Bachaco_40:
(Start: 217 @30596 has 68 MA's), (Start: 273 @30665 has 1 MA's), (346, 30779), (430, 30932), (473, 31028), (582, 31187), (605, 31223), (626, 31268), (633, 31283), (686, 31376), (729, 31466), (803, 31682), (823, 31733), (830, 31748), (845, 31799), (848, 31808), (855, 31835), (898, 31928), (929, 32000), (973, 32099), (1009, 32171), (1013, 32195), (1038, 32252), (1058, 32306), (1066, 32330), (1079, 32351),

Gene: Bachome_46 Start: 30764, Stop: 28977, Start Num: 228
Candidate Starts for Bachome_46:
(Start: 228 @30764 has 960 MA's), (360, 30560), (399, 30488), (410, 30458), (424, 30431), (572, 30179), (595, 30128), (643, 30047), (668, 30002), (670, 29999), (707, 29918), (733, 29861), (766, 29819), (778, 29774), (803, 29693), (823, 29642), (836, 29606), (855, 29540), (895, 29480), (897, 29468), (938, 29366), (949, 29342), (954, 29324), (992, 29261), (1007, 29234), (1009, 29225), (1013, 29201), (1066, 29066), (1073, 29054), (1079, 29045),

Gene: Backyardigan_43 Start: 31552, Stop: 29723, Start Num: 228
Candidate Starts for Backyardigan_43:
(Start: 228 @31552 has 960 MA's), (263, 31501), (278, 31471), (384, 31309), (394, 31291), (399, 31276), (424, 31219), (430, 31210), (480, 31090), (490, 31066), (544, 31024), (570, 30973), (592, 30925), (607, 30904), (626, 30865), (654, 30820), (657, 30814), (696, 30733), (707, 30712), (729, 30667), (798, 30502), (803, 30481), (855, 30328), (871, 30289), (901, 30217), (906, 30202), (919, 30178), (926, 30160), (929, 30154), (931, 30148), (1013, 29947), (1066, 29812), (1073, 29800), (1079, 29791),

Gene: BaconJack_48 Start: 35612, Stop: 33786, Start Num: 228
Candidate Starts for BaconJack_48:
(Start: 228 @35612 has 960 MA's), (366, 35399), (373, 35384), (399, 35336), (410, 35306), (418, 35285), (424, 35279), (430, 35270), (479, 35153), (490, 35126), (570, 35033), (576, 35018), (621, 34934), (622, 34931), (659, 34865), (690, 34805), (709, 34760), (729, 34721), (803, 34541), (815, 34511), (821, 34493), (823, 34490), (836, 34454), (855, 34388), (897, 34316), (900, 34307), (901, 34304), (935, 34223), (1009, 34073), (1010, 34070), (1018, 34034), (1032, 34010), (1035, 34001), (1039, 33989), (1042, 33971), (1066, 33914), (1079, 33893),

Gene: Bactobuster_43 Start: 32277, Stop: 30487, Start Num: 228
Candidate Starts for Bactobuster_43:
(Start: 228 @32277 has 960 MA's), (360, 32073), (366, 32064), (400, 31995), (410, 31968), (424, 31941), (490, 31788), (570, 31695), (590, 31647), (595, 31638), (607, 31623), (643, 31557), (660, 31524), (701, 31440), (742, 31359), (766, 31329), (803, 31203), (815, 31173), (823, 31152), (847, 31080), (855, 31050), (871, 31011), (895, 30990), (900, 30969), (982, 30789), (990, 30777), (1009, 30735), (1013, 30711), (1038, 30654), (1042, 30633), (1066, 30576), (1073, 30564), (1079, 30555),

Gene: Badfish_61 Start: 54554, Stop: 52695, Start Num: 190
Candidate Starts for Badfish_61:
(Start: 173 @54578 has 3 MA's), (Start: 190 @54554 has 336 MA's), (Start: 222 @54530 has 3 MA's), (Start: 232 @54524 has 2 MA's), (261, 54482), (274, 54461), (336, 54347), (339, 54341), (355, 54311), (390, 54251), (398, 54230), (416, 54176), (429, 54164), (436, 54146), (440, 54134), (487, 54029), (552, 53972), (569, 53936), (573, 53924), (585, 53897), (601, 53870), (611, 53852), (622, 53834), (643, 53795), (648, 53786), (649, 53783), (761, 53525), (796, 53423), (804, 53390), (812, 53369), (848, 53276), (851, 53267), (877, 53204), (900, 53168), (901, 53165), (906, 53150), (939, 53072), (946, 53060), (953, 53039), (976, 53000), (1013, 52910), (1022, 52892), (1024, 52886), (1032, 52871), (1040, 52847), (1042, 52832), (1043, 52829), (1047, 52817), (1059, 52793), (1082, 52745), (1093, 52721),

Gene: Badger_43 Start: 31520, Stop: 29691, Start Num: 228
Candidate Starts for Badger_43:
(Start: 228 @31520 has 960 MA's), (263, 31469), (278, 31439), (384, 31277), (394, 31259), (399, 31244), (424, 31187), (430, 31178), (480, 31058), (490, 31034), (544, 30992), (570, 30941), (592, 30893), (607, 30872), (626, 30833), (654, 30788), (657, 30782), (696, 30701), (707, 30680), (729, 30635), (798, 30470), (803, 30449), (855, 30296), (871, 30257), (901, 30185), (906, 30170), (919, 30146), (926, 30128), (929, 30122), (931, 30116), (1013, 29915), (1066, 29780), (1073, 29768), (1079, 29759),

Gene: Baee_59 Start: 55561, Stop: 53708, Start Num: 182
Candidate Starts for Baee_59:
(95, 55720), (129, 55639), (Start: 182 @55561 has 33 MA's), (Start: 217 @55516 has 68 MA's), (249, 55480), (293, 55420), (436, 55159), (457, 55117), (472, 55081), (487, 55051), (569, 54958), (573, 54946), (583, 54922), (590, 54910), (601, 54892), (635, 54829), (649, 54805), (701, 54700), (776, 54511), (780, 54493), (797, 54445), (804, 54418), (812, 54397), (846, 54310), (848, 54304), (851, 54295), (856, 54274), (883, 54211), (901, 54178), (906, 54163), (933, 54103), (939, 54085), (946, 54073), (953, 54052), (955, 54043), (957, 54040), (1013, 53923), (1024, 53899), (1040, 53860), (1042, 53845), (1043, 53842), (1059, 53806), (1060, 53803), (1093, 53734),

Gene: Baehexic_43 Start: 31482, Stop: 29695, Start Num: 228
Candidate Starts for Baehexic_43:
(Start: 228 @31482 has 960 MA's), (360, 31278), (362, 31275), (366, 31269), (384, 31239), (399, 31206), (400, 31203), (410, 31176), (424, 31149), (448, 31098), (490, 30996), (570, 30903), (590, 30855), (595, 30846), (607, 30831), (643, 30765), (686, 30684), (707, 30636), (778, 30492), (803, 30411), (823, 30360), (835, 30327), (855, 30258), (871, 30219), (895, 30198), (900, 30177), (904, 30165), (990, 29985), (992, 29979), (1009, 29943), (1013, 29919), (1042, 29841), (1066, 29784), (1073, 29772),

Gene: BaileyBlu_41 Start: 29217, Stop: 31091, Start Num: 228
Candidate Starts for BaileyBlu_41:
(94, 29007), (Start: 228 @29217 has 960 MA's), (Start: 232 @29223 has 2 MA's), (239, 29235), (383, 29448), (400, 29487), (572, 29811), (626, 29919), (633, 29934), (686, 30024), (707, 30072), (803, 30330), (815, 30360), (838, 30420), (845, 30447), (847, 30453), (945, 30687), (1009, 30819), (1013,

30843), (1024, 30867), (1035, 30891), (1043, 30924), (1066, 30978), (1071, 30987), (1084, 31008), (1110, 31074),

Gene: Baines_38 Start: 28622, Stop: 26757, Start Num: 301
Candidate Starts for Baines_38:
(Start: 241 @28709 has 3 MA's), (Start: 301 @28622 has 153 MA's), (Start: 305 @28613 has 5 MA's), (353, 28508), (360, 28499), (378, 28469), (380, 28466), (435, 28346), (439, 28334), (442, 28328), (483, 28223), (494, 28196), (582, 28055), (585, 28049), (586, 28046), (590, 28034), (606, 28007), (607, 28004), (614, 27989), (618, 27983), (621, 27977), (638, 27944), (701, 27815), (726, 27755), (847, 27440), (850, 27431), (851, 27428), (855, 27410), (873, 27368), (877, 27362), (888, 27338), (908, 27281), (974, 27122), (989, 27092), (992, 27083), (1010, 27023), (1013, 26999), (1028, 26960), (1040, 26927), (1044, 26915), (1068, 26855),

Gene: Baloo_58 Start: 53679, Stop: 51862, Start Num: 230
Candidate Starts for Baloo_58:
(46, 54063), (110, 53862), (Start: 230 @53679 has 52 MA's), (249, 53649), (366, 53469), (435, 53316), (439, 53304), (452, 53274), (458, 53268), (487, 53205), (489, 53199), (552, 53148), (569, 53112), (590, 53064), (649, 52959), (694, 52863), (722, 52812), (775, 52668), (787, 52629), (797, 52599), (804, 52572), (810, 52560), (846, 52464), (848, 52458), (851, 52449), (854, 52437), (883, 52365), (900, 52335), (906, 52317), (912, 52308), (939, 52239), (946, 52227), (953, 52206), (992, 52137), (1002, 52122), (1010, 52098), (1013, 52077), (1024, 52053), (1040, 52014), (1043, 51996), (1047, 51984), (1054, 51972), (1059, 51960), (1078, 51918), (1093, 51888),

Gene: Balsa_38 Start: 29055, Stop: 27190, Start Num: 301
Candidate Starts for Balsa_38:
(Start: 301 @29055 has 153 MA's), (Start: 305 @29046 has 5 MA's), (433, 28782), (439, 28767), (442, 28761), (494, 28629), (545, 28575), (582, 28488), (586, 28479), (590, 28467), (606, 28440), (607, 28437), (614, 28422), (618, 28416), (768, 28086), (847, 27873), (850, 27864), (851, 27861), (855, 27843), (873, 27801), (889, 27771), (908, 27714), (974, 27555), (989, 27525), (1010, 27456), (1013, 27432), (1028, 27393), (1040, 27360), (1044, 27348),

Gene: Bananafish_57 Start: 52489, Stop: 50660, Start Num: 190
Candidate Starts for Bananafish_57:
(Start: 190 @52489 has 336 MA's), (Start: 232 @52462 has 2 MA's), (Start: 255 @52432 has 8 MA's), (261, 52420), (Start: 276 @52393 has 2 MA's), (278, 52390), (284, 52381), (307, 52363), (362, 52267), (390, 52216), (399, 52192), (467, 52030), (482, 52006), (487, 51994), (552, 51937), (569, 51901), (573, 51889), (583, 51865), (630, 51781), (648, 51751), (649, 51748), (664, 51718), (727, 51574), (755, 51508), (771, 51469), (775, 51457), (780, 51436), (787, 51418), (804, 51361), (840, 51277), (848, 51247), (851, 51238), (875, 51172), (897, 51145), (900, 51136), (906, 51118), (919, 51094), (939, 51040), (946, 51028), (953, 51007), (992, 50938), (1013, 50878), (1022, 50860), (1036, 50827), (1040, 50815), (1042, 50800), (1043, 50797), (1047, 50785), (1059, 50761), (1060, 50758), (1082, 50710), (1083, 50707), (1093, 50686), (1100, 50665),

Gene: Bandik_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Bandik_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (768, 27961), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: BangNhom_46 Start: 31992, Stop: 30166, Start Num: 228
Candidate Starts for BangNhom_46:
(Start: 228 @31992 has 960 MA's), (261, 31944), (360, 31788), (399, 31716), (424, 31659), (430, 31650), (480, 31530), (490, 31506), (570, 31413), (592, 31365), (607, 31344), (626, 31305), (654, 31260), (696, 31173), (701, 31164), (707, 31152), (729, 31107), (733, 31095), (798, 30942), (803, 30921), (847, 30798), (855, 30768), (871, 30729), (900, 30663), (901, 30660), (919, 30621), (929, 30597), (1013, 30390), (1066, 30255), (1073, 30243), (1079, 30234),

Gene: Banjo_59 Start: 54043, Stop: 52184, Start Num: 190
Candidate Starts for Banjo_59:
(Start: 173 @54067 has 3 MA's), (Start: 190 @54043 has 336 MA's), (Start: 222 @54019 has 3 MA's), (Start: 232 @54013 has 2 MA's), (261, 53971), (274, 53950), (336, 53836), (339, 53830), (355, 53800), (390, 53740), (398, 53719), (416, 53665), (429, 53653), (436, 53635), (440, 53623), (487, 53518), (552, 53461), (569, 53425), (573, 53413), (585, 53386), (601, 53359), (611, 53341), (622, 53323), (643, 53284), (648, 53275), (649, 53272), (651, 53269), (796, 52912), (804, 52879), (812, 52858), (848, 52765), (851, 52756), (877, 52693), (900, 52657), (901, 52654), (906, 52639), (939, 52561), (946, 52549), (953, 52528), (976, 52489), (1013, 52399), (1022, 52381), (1024, 52375), (1032, 52360), (1040, 52336), (1042, 52321), (1043, 52318), (1047, 52306), (1059, 52282), (1082, 52234), (1093, 52210),

Gene: BarnCat_62 Start: 37491, Stop: 35530, Start Num: 294
Candidate Starts for BarnCat_62:
(Start: 294 @37491 has 13 MA's), (326, 37431), (343, 37413), (370, 37371), (379, 37359), (399, 37317), (414, 37272), (426, 37248), (430, 37242), (471, 37134), (478, 37122), (549, 36969), (559, 36948), (573, 36915), (600, 36864), (610, 36843), (616, 36834), (650, 36777), (662, 36753), (669, 36741), (717, 36633), (727, 36603), (775, 36516), (779, 36498), (780, 36495), (781, 36492), (784, 36483), (819, 36375), (848, 36291), (903, 36072), (918, 36027), (944, 35961), (959, 35919), (977, 35889), (995, 35838), (996, 35832), (1005, 35808), (1011, 35781), (1013, 35769), (1014, 35766), (1036, 35712), (1041, 35688), (1043, 35682), (1066, 35628), (1095, 35574),

Gene: Barnstormer_47 Start: 31148, Stop: 33013, Start Num: 228
Candidate Starts for Barnstormer_47:
(126, 31028), (136, 31046), (Start: 228 @31148 has 960 MA's), (303, 31256), (623, 31844), (626, 31850), (707, 32003), (736, 32066), (803, 32261), (828, 32324), (845, 32378), (847, 32384), (856, 32417), (936, 32600), (1066, 32909), (1104, 32987), (1112, 33008),

Gene: BaronJohn_37 Start: 27578, Stop: 25713, Start Num: 301
Candidate Starts for BaronJohn_37:
(Start: 301 @27578 has 153 MA's), (304, 27572), (349, 27473), (353, 27464), (369, 27440), (378, 27425), (382, 27419), (402, 27368), (404, 27365), (442, 27284), (502, 27134), (533, 27131), (574, 27032), (585, 27005), (586, 27002), (590, 26990), (607, 26960), (618, 26939), (636, 26903), (706, 26756), (777, 26576), (847, 26396), (855, 26366), (878, 26312), (889, 26294), (908, 26237), (917, 26210), (933, 26168), (989, 26048), (992, 26039), (1010, 25979), (1013, 25955), (1017, 25943), (1020, 25934), (1028, 25916), (1040, 25883), (1068, 25811),

Gene: Barriga_45 Start: 34327, Stop: 32501, Start Num: 228
Candidate Starts for Barriga_45:
(Start: 228 @34327 has 960 MA's), (366, 34114), (373, 34099), (399, 34051), (410, 34021), (418, 34000), (424, 33994), (430, 33985), (462, 33901), (479, 33868), (490, 33841), (570, 33748), (576, 33733), (621, 33649), (622, 33646), (659, 33580), (690, 33520), (709, 33475), (729, 33436), (803, 33256), (821, 33208), (836, 33169), (855, 33103), (871, 33064), (895, 33043), (900, 33022), (906, 33004), (935, 32938), (1009, 32788), (1010, 32785), (1018, 32749), (1032, 32725), (1035, 32716), (1039, 32704), (1045, 32677), (1066, 32629), (1079, 32608),

Gene: Barroma_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for Barroma_10:
(40, 8685), (83, 8535), (93, 8499), (98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (781, 7005), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1037, 6270), (1043, 6243), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: BarrowTuph_45 Start: 34815, Stop: 32989, Start Num: 228
Candidate Starts for BarrowTuph_45:
(Start: 228 @34815 has 960 MA's), (366, 34602), (399, 34539), (410, 34509), (418, 34488), (424, 34482), (430, 34473), (479, 34356), (490, 34329), (570, 34236), (576, 34221), (621, 34137), (622, 34134), (659, 34068), (680, 34038), (690, 34008), (709, 33963), (729, 33924), (803, 33744), (821, 33696), (823, 33693), (836, 33657), (855, 33591), (871, 33552), (895, 33531), (900, 33510), (906, 33492), (935, 33426), (1009, 33276), (1010, 33273), (1018, 33237), (1032, 33213), (1035, 33204), (1039, 33192), (1066, 33117), (1079, 33096),

Gene: Bartimeaus_45 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Bartimeaus_45:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Basato_61 Start: 54317, Stop: 52458, Start Num: 190
Candidate Starts for Basato_61:
(Start: 173 @54341 has 3 MA's), (Start: 190 @54317 has 336 MA's), (Start: 222 @54293 has 3 MA's), (Start: 232 @54287 has 2 MA's), (261, 54245), (274, 54224), (336, 54110), (339, 54104), (355, 54074), (390, 54014), (398, 53993), (416, 53939), (429, 53927), (436, 53909), (440, 53897), (487, 53792), (552, 53735), (569, 53699), (573, 53687), (585, 53660), (590, 53651), (611, 53615), (643, 53558), (648, 53549), (649, 53546), (651, 53543), (796, 53186), (804, 53153), (812, 53132), (848, 53039), (851, 53030), (877, 52967), (900, 52931), (901, 52928), (906, 52913), (939, 52835), (946, 52823), (953, 52802), (976, 52763), (1013, 52673), (1022, 52655), (1024, 52649), (1032, 52634), (1040, 52610), (1042, 52595), (1043, 52592), (1047, 52580), (1059, 52556), (1082, 52508), (1093, 52484),

Gene: BatteryCK_61 Start: 54193, Stop: 52334, Start Num: 190
Candidate Starts for BatteryCK_61:
(Start: 173 @54217 has 3 MA's), (Start: 190 @54193 has 336 MA's), (Start: 222 @54169 has 3 MA's), (Start: 232 @54163 has 2 MA's), (261, 54121), (274, 54100), (336, 53986), (339, 53980), (355, 53950), (390, 53890), (398, 53869), (416, 53815), (429, 53803), (436, 53785), (440, 53773), (487, 53668), (552, 53611), (569, 53575), (573, 53563), (583, 53539), (590, 53527), (601, 53509), (611, 53491), (622, 53473), (643, 53434), (648, 53425), (649, 53422), (651, 53419), (796, 53062), (804, 53029), (812, 53008), (848, 52915), (851, 52906), (877, 52843), (900, 52807), (901, 52804), (906, 52789), (939, 52711), (946, 52699), (953, 52678), (976, 52639), (1013, 52549), (1022, 52531), (1024, 52525), (1032, 52510), (1040, 52486), (1042, 52471), (1043, 52468), (1047, 52456), (1059, 52432), (1082, 52384), (1093, 52360),

Gene: Battleship_48 Start: 29936, Stop: 28146, Start Num: 228
Candidate Starts for Battleship_48:

(Start: 228 @29936 has 960 MA's), (343, 29762), (399, 29657), (400, 29654), (410, 29627), (424, 29600), (448, 29549), (490, 29447), (570, 29354), (587, 29309), (590, 29306), (595, 29297), (686, 29135), (696, 29108), (707, 29087), (709, 29081), (768, 28982), (778, 28943), (796, 28892), (803, 28862), (823, 28811), (835, 28778), (845, 28745), (847, 28739), (855, 28709), (895, 28649), (900, 28628), (919, 28586), (930, 28559), (935, 28544), (977, 28457), (1009, 28394), (1010, 28391), (1066, 28235), (1073, 28223), (1082, 28211),

Gene: BayC_48 Start: 39366, Stop: 37366, Start Num: 298
Candidate Starts for BayC_48:
(Start: 298 @39366 has 15 MA's), (343, 39297), (409, 39165), (411, 39159), (413, 39153), (435, 39105), (439, 39093), (442, 39087), (451, 39066), (456, 39051), (486, 38982), (527, 38841), (568, 38745), (609, 38658), (625, 38634), (631, 38622), (639, 38610), (679, 38541), (733, 38394), (781, 38289), (787, 38274), (806, 38217), (814, 38196), (828, 38154), (838, 38124), (847, 38091), (861, 38037), (870, 38007), (891, 37938), (895, 37917), (919, 37854), (926, 37836), (931, 37824), (939, 37800), (1013, 37599), (1014, 37596), (1024, 37575), (1039, 37542), (1042, 37524), (1058, 37491), (1066, 37467), (1092, 37419),

Gene: Beaglebox_60 Start: 54107, Stop: 52248, Start Num: 190
Candidate Starts for Beaglebox_60:
(Start: 173 @54131 has 3 MA's), (Start: 190 @54107 has 336 MA's), (Start: 222 @54083 has 3 MA's), (Start: 232 @54077 has 2 MA's), (261, 54035), (274, 54014), (336, 53900), (339, 53894), (355, 53864), (390, 53804), (398, 53783), (416, 53729), (429, 53717), (436, 53699), (440, 53687), (487, 53582), (552, 53525), (569, 53489), (573, 53477), (583, 53453), (590, 53441), (601, 53423), (611, 53405), (622, 53387), (643, 53348), (648, 53339), (649, 53336), (761, 53078), (796, 52976), (804, 52943), (812, 52922), (848, 52829), (851, 52820), (877, 52757), (900, 52721), (901, 52718), (906, 52703), (939, 52625), (946, 52613), (953, 52592), (976, 52553), (1013, 52463), (1022, 52445), (1024, 52439), (1032, 52424), (1040, 52400), (1042, 52385), (1043, 52382), (1047, 52370), (1059, 52346), (1082, 52298), (1093, 52274),

Gene: Beatrix_44 Start: 35941, Stop: 34154, Start Num: 228
Candidate Starts for Beatrix_44:
(Start: 228 @35941 has 960 MA's), (366, 35728), (399, 35665), (410, 35635), (418, 35614), (424, 35608), (430, 35599), (479, 35482), (490, 35455), (570, 35362), (576, 35347), (621, 35263), (622, 35260), (659, 35194), (680, 35164), (690, 35134), (709, 35089), (729, 35050), (803, 34870), (821, 34822), (836, 34783), (855, 34717), (897, 34645), (900, 34636), (935, 34552), (977, 34465), (1032, 34339), (1036, 34327), (1058, 34267), (1066, 34243), (1069, 34237),

Gene: Beaupre_37 Start: 27544, Stop: 29526, Start Num: 227
Candidate Starts for Beaupre_37:
(Start: 227 @27544 has 33 MA's), (343, 27718), (360, 27748), (386, 27781), (400, 27814), (435, 27889), (447, 27916), (489, 28018), (544, 28117), (626, 28291), (643, 28318), (707, 28447), (768, 28585), (795, 28672), (803, 28705), (815, 28735), (836, 28792), (855, 28858), (898, 28951), (934, 29038), (1013, 29218), (1024, 29242), (1066, 29353), (1114, 29461),

Gene: BeautPeep30_39 Start: 28936, Stop: 27071, Start Num: 301
Candidate Starts for BeautPeep30_39:
(Start: 241 @29023 has 3 MA's), (Start: 243 @29020 has 1 MA's), (Start: 301 @28936 has 153 MA's), (Start: 305 @28927 has 5 MA's), (353, 28822), (360, 28813), (378, 28783), (380, 28780), (435, 28660), (439, 28648), (442, 28642), (483, 28537), (494, 28510), (582, 28369), (585, 28363), (586, 28360), (590, 28348), (606, 28321), (607, 28318), (614, 28303), (618, 28297), (621, 28291), (638, 28258), (726, 28069), (847, 27754), (850, 27745), (851, 27742), (855, 27724), (873, 27682), (877, 27676), (888, 27652), (908, 27595), (974, 27436), (989, 27406), (992, 27397), (1010, 27337), (1013, 27313), (1028, 27274), (1040, 27241), (1044, 27229), (1068, 27169),

Gene: Beauxregard13_48 Start: 31856, Stop: 30042, Start Num: 228
Candidate Starts for Beauxregard13_48:
(Start: 228 @31856 has 960 MA's), (257, 31817), (263, 31805), (360, 31652), (369, 31637), (399, 31580), (424, 31523), (430, 31514), (448, 31472), (465, 31421), (490, 31370), (570, 31277), (590, 31229), (595, 31220), (607, 31205), (626, 31166), (643, 31139), (659, 31109), (703, 31016), (732, 30956), (742, 30941), (803, 30785), (836, 30698), (855, 30632), (871, 30593), (901, 30521), (919, 30482), (929, 30458), (935, 30440), (949, 30407), (958, 30380), (992, 30326), (1013, 30266), (1042, 30188), (1066, 30131), (1073, 30119), (1079, 30110),

Gene: BeeBee8_39 Start: 29216, Stop: 27360, Start Num: 305
Candidate Starts for BeeBee8_39:
(Start: 301 @29225 has 153 MA's), (Start: 305 @29216 has 5 MA's), (433, 28952), (439, 28937), (442, 28931), (494, 28799), (545, 28745), (582, 28658), (586, 28649), (590, 28637), (606, 28610), (607, 28607), (614, 28592), (618, 28586), (768, 28256), (847, 28043), (850, 28034), (851, 28031), (855, 28013), (873, 27971), (889, 27941), (908, 27884), (974, 27725), (989, 27695), (1010, 27626), (1013, 27602), (1028, 27563), (1040, 27530), (1044, 27518),

Gene: Beemo_45 Start: 31539, Stop: 29746, Start Num: 228
Candidate Starts for Beemo_45:
(Start: 228 @31539 has 960 MA's), (235, 31530), (263, 31488), (342, 31368), (343, 31365), (370, 31317), (400, 31257), (411, 31227), (415, 31215), (424, 31203), (490, 31050), (570, 30957), (643, 30819), (659, 30789), (733, 30630), (742, 30618), (764, 30591), (798, 30483), (803, 30462), (851, 30327), (855, 30309), (900, 30228), (919, 30186), (949, 30111), (990, 30036), (1009, 29994), (1042, 29892), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: BeesKnees_45 Start: 34407, Stop: 32581, Start Num: 228
Candidate Starts for BeesKnees_45:
(Start: 228 @34407 has 960 MA's), (366, 34194), (399, 34131), (410, 34101), (418, 34080), (424, 34074), (430, 34065), (479, 33948), (490, 33921), (570, 33828), (576, 33813), (621, 33729), (622, 33726), (659, 33660), (680, 33630), (690, 33600), (709, 33555), (729, 33516), (803, 33336), (821, 33288), (836, 33249), (855, 33183), (871, 33144), (895, 33123), (900, 33102), (906, 33084), (935, 33018), (1009, 32868), (1010, 32865), (1018, 32829), (1035, 32796), (1039, 32784), (1045, 32757), (1066, 32709), (1079, 32688),

Gene: Beleetus_139 Start: 73582, Stop: 75618, Start Num: 255
Candidate Starts for Beleetus_139:
(Start: 255 @73582 has 8 MA's), (292, 73648), (308, 73672), (334, 73726), (342, 73738), (360, 73771), (398, 73840), (417, 73897), (444, 73975), (456, 74011), (535, 74131), (561, 74185), (564, 74188), (582, 74239), (587, 74251), (626, 74320), (637, 74341), (666, 74389), (672, 74398), (806, 74776), (839, 74893), (843, 74911), (894, 75031), (896, 75043), (923, 75112), (926, 75121), (995, 75295), (1018, 75379), (1045, 75454), (1065, 75526), (1088, 75580), (1091, 75586),

Gene: Belenaria_36 Start: 28114, Stop: 26330, Start Num: 228
Candidate Starts for Belenaria_36:
(Start: 228 @28114 has 960 MA's), (379, 27880), (396, 27850), (398, 27841), (399, 27838), (415, 27793), (424, 27781), (448, 27730), (490, 27628), (498, 27607), (570, 27535), (587, 27490), (590, 27487), (617, 27445), (619, 27439), (626, 27424), (643, 27397), (696, 27292), (701, 27283), (709, 27265), (729, 27226), (767, 27169), (803, 27046), (821, 26998), (855, 26893), (856, 26890), (895, 26833), (900, 26812), (922, 26764), (951, 26689), (990, 26620), (1009, 26578), (1013, 26554), (1042, 26476), (1066, 26419), (1073, 26407), (1079, 26398), (1094, 26368), (1100, 26350),

Gene: Bellris_44 Start: 30722, Stop: 28929, Start Num: 228

Candidate Starts for Bellris_44:
(Start: 228 @30722 has 960 MA's), (235, 30713), (263, 30671), (317, 30584), (360, 30518), (366, 30509), (370, 30500), (381, 30482), (400, 30440), (410, 30413), (415, 30398), (424, 30386), (448, 30335), (490, 30233), (565, 30155), (570, 30140), (595, 30083), (659, 29972), (704, 29876), (733, 29813), (764, 29774), (767, 29768), (803, 29645), (840, 29549), (847, 29522), (855, 29492), (871, 29453), (900, 29411), (949, 29294), (990, 29219), (1009, 29177), (1042, 29075), (1066, 29018), (1073, 29006), (1079, 28997),

Gene: BellusTerra_46 Start: 31571, Stop: 29745, Start Num: 228
Candidate Starts for BellusTerra_46:
(Start: 228 @31571 has 960 MA's), (Start: 241 @31550 has 3 MA's), (263, 31520), (278, 31490), (384, 31328), (394, 31310), (424, 31238), (430, 31229), (480, 31109), (490, 31085), (570, 30992), (592, 30944), (607, 30923), (626, 30884), (696, 30752), (707, 30731), (729, 30686), (733, 30674), (798, 30521), (803, 30500), (847, 30377), (855, 30347), (871, 30308), (900, 30242), (901, 30239), (906, 30224), (919, 30200), (929, 30176), (1013, 29969), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: BelmontSKP_43 Start: 29896, Stop: 31770, Start Num: 217
Candidate Starts for BelmontSKP_43:
(Start: 215 @29893 has 12 MA's), (Start: 217 @29896 has 68 MA's), (Start: 273 @29965 has 1 MA's), (Start: 285 @29986 has 1 MA's), (430, 30232), (448, 30274), (582, 30487), (626, 30568), (741, 30802), (784, 30925), (803, 30985), (806, 30991), (823, 31036), (830, 31051), (833, 31066), (845, 31102), (855, 31138), (898, 31231), (936, 31324), (973, 31402), (1009, 31474), (1018, 31513), (1038, 31555), (1041, 31573), (1058, 31609), (1066, 31633), (1079, 31654),

Gene: Ben11_58 Start: 53891, Stop: 52074, Start Num: 230
Candidate Starts for Ben11_58:
(110, 54074), (Start: 230 @53891 has 52 MA's), (249, 53861), (366, 53681), (435, 53528), (439, 53516), (452, 53486), (458, 53480), (487, 53417), (489, 53411), (552, 53360), (566, 53333), (569, 53324), (590, 53276), (649, 53171), (694, 53075), (722, 53024), (775, 52880), (787, 52841), (797, 52811), (804, 52784), (810, 52772), (846, 52676), (848, 52670), (851, 52661), (854, 52649), (883, 52577), (900, 52547), (906, 52529), (912, 52520), (939, 52451), (946, 52439), (953, 52418), (992, 52349), (1002, 52334), (1010, 52310), (1013, 52289), (1022, 52271), (1024, 52265), (1038, 52232), (1040, 52226), (1043, 52208), (1047, 52196), (1054, 52184), (1059, 52172), (1078, 52130), (1093, 52100),

Gene: Benedict_39 Start: 30154, Stop: 28289, Start Num: 228
Candidate Starts for Benedict_39:
(Start: 195 @30187 has 3 MA's), (Start: 228 @30154 has 960 MA's), (304, 30043), (360, 29950), (362, 29947), (399, 29878), (400, 29875), (410, 29848), (424, 29821), (430, 29812), (462, 29728), (465, 29719), (473, 29704), (490, 29668), (556, 29608), (570, 29572), (587, 29527), (590, 29524), (606, 29503), (607, 29500), (637, 29440), (685, 29362), (703, 29314), (709, 29302), (732, 29254), (761, 29203), (803, 29068), (821, 29020), (830, 29002), (836, 28981), (840, 28972), (848, 28942), (855, 28915), (856, 28912), (900, 28834), (929, 28768), (949, 28717), (977, 28663), (982, 28654), (992, 28636), (1022, 28558), (1058, 28465), (1066, 28441), (1073, 28429), (1115, 28324),

Gene: Bengal_43 Start: 29549, Stop: 31423, Start Num: 217
Candidate Starts for Bengal_43:
(Start: 217 @29549 has 68 MA's), (Start: 273 @29618 has 1 MA's), (Start: 285 @29639 has 1 MA's), (430, 29885), (436, 29900), (448, 29927), (626, 30221), (696, 30356), (741, 30455), (784, 30578), (803, 30638), (806, 30644), (823, 30689), (830, 30704), (833, 30719), (845, 30755), (855, 30791), (898, 30884), (936, 30977), (973, 31055), (1009, 31127), (1018, 31166), (1038, 31208), (1041, 31226), (1058, 31262), (1066, 31286), (1079, 31307),

Gene: BengiVuitton_44 Start: 31228, Stop: 29441, Start Num: 228
Candidate Starts for BengiVuitton_44:
(Start: 228 @31228 has 960 MA's), (360, 31024), (362, 31021), (366, 31015), (375, 31000), (384, 30985), (399, 30952), (400, 30949), (410, 30922), (424, 30895), (435, 30874), (448, 30844), (490, 30742), (570, 30649), (573, 30640), (590, 30601), (595, 30592), (607, 30577), (643, 30511), (686, 30430), (707, 30382), (709, 30376), (778, 30238), (803, 30157), (823, 30106), (835, 30073), (836, 30070), (855, 30004), (871, 29965), (895, 29944), (924, 29869), (931, 29851), (949, 29806), (958, 29779), (982, 29743), (992, 29725), (1009, 29689), (1013, 29665), (1038, 29608), (1042, 29587), (1066, 29530), (1073, 29518),

Gene: Benjalauren_39 Start: 28635, Stop: 26770, Start Num: 301
Candidate Starts for Benjalauren_39:
(Start: 241 @28722 has 3 MA's), (Start: 243 @28719 has 1 MA's), (Start: 301 @28635 has 153 MA's), (Start: 305 @28626 has 5 MA's), (353, 28521), (360, 28512), (378, 28482), (380, 28479), (435, 28359), (439, 28347), (442, 28341), (483, 28236), (494, 28209), (582, 28068), (585, 28062), (586, 28059), (590, 28047), (606, 28020), (607, 28017), (614, 28002), (618, 27996), (621, 27990), (638, 27957), (701, 27828), (726, 27768), (847, 27453), (850, 27444), (851, 27441), (855, 27423), (873, 27381), (877, 27375), (879, 27366), (888, 27351), (908, 27294), (974, 27135), (989, 27105), (992, 27096), (1010, 27036), (1013, 27012), (1028, 26973), (1040, 26940), (1044, 26928), (1068, 26868),

Gene: BennyP_46 Start: 29772, Stop: 27931, Start Num: 228
Candidate Starts for BennyP_46:
(Start: 228 @29772 has 960 MA's), (360, 29568), (399, 29493), (400, 29490), (410, 29463), (415, 29448), (424, 29436), (448, 29385), (485, 29295), (490, 29283), (570, 29190), (585, 29151), (595, 29133), (607, 29118), (643, 29052), (660, 29019), (663, 29016), (710, 28914), (742, 28854), (778, 28770), (803, 28689), (835, 28605), (836, 28602), (840, 28593), (847, 28566), (855, 28536), (895, 28476), (906, 28437), (1009, 28221), (1010, 28218), (1013, 28197), (1066, 28062), (1073, 28050), (1079, 28041), (1082, 28038), (1115, 27945),

Gene: Benvolio_41 Start: 30754, Stop: 28967, Start Num: 228
Candidate Starts for Benvolio_41:
(Start: 228 @30754 has 960 MA's), (362, 30547), (366, 30541), (384, 30511), (399, 30478), (400, 30475), (410, 30448), (424, 30421), (435, 30400), (490, 30268), (570, 30175), (590, 30127), (595, 30118), (607, 30103), (643, 30037), (686, 29956), (707, 29908), (709, 29902), (742, 29839), (778, 29764), (803, 29683), (823, 29632), (835, 29599), (836, 29596), (855, 29530), (871, 29491), (895, 29470), (924, 29395), (931, 29377), (935, 29365), (949, 29332), (958, 29305), (982, 29269), (1009, 29215), (1013, 29191), (1038, 29134), (1042, 29113), (1066, 29056), (1073, 29044), (1079, 29035),

Gene: Bernardo_59 Start: 54028, Stop: 52211, Start Num: 230
Candidate Starts for Bernardo_59:
(110, 54211), (Start: 230 @54028 has 52 MA's), (249, 53998), (366, 53818), (435, 53665), (439, 53653), (452, 53623), (458, 53617), (487, 53554), (489, 53548), (552, 53497), (569, 53461), (590, 53413), (649, 53308), (694, 53212), (722, 53161), (775, 53017), (787, 52978), (797, 52948), (804, 52921), (810, 52909), (846, 52813), (848, 52807), (851, 52798), (854, 52786), (883, 52714), (900, 52684), (906, 52666), (912, 52657), (939, 52588), (946, 52576), (953, 52555), (992, 52486), (1002, 52471), (1010, 52447), (1013, 52426), (1024, 52402), (1040, 52363), (1043, 52345), (1047, 52333), (1054, 52321), (1059, 52309), (1078, 52267), (1093, 52237),

Gene: Bernstein_40 Start: 27521, Stop: 29389, Start Num: 215
Candidate Starts for Bernstein_40:
(Start: 215 @27521 has 12 MA's), (Start: 217 @27524 has 68 MA's), (220, 27527), (Start: 273 @27596 has 1 MA's), (436, 27878), (448, 27905), (473, 27959), (585, 28124), (626, 28199), (637, 28220), (784, 28574), (803, 28634), (823, 28685), (845, 28751), (855, 28787), (898, 28880), (973, 29051), (1009,

29123), (1038, 29204), (1065, 29279), (1066, 29282), (1079, 29303), (1108, 29372),

Gene: Berrie_42 Start: 30512, Stop: 32377, Start Num: 228
Candidate Starts for Berrie_42:
(Start: 228 @30512 has 960 MA's), (261, 30560), (360, 30716), (386, 30749), (418, 30830), (452, 30899), (572, 31106), (577, 31118), (622, 31205), (626, 31214), (633, 31229), (686, 31319), (707, 31367), (768, 31505), (803, 31625), (836, 31712), (855, 31778), (898, 31871), (929, 31943), (977, 32051), (1009, 32114), (1013, 32138), (1066, 32273), (1071, 32282), (1107, 32360),

Gene: Bethlehem_44 Start: 35080, Stop: 33254, Start Num: 228
Candidate Starts for Bethlehem_44:
(Start: 228 @35080 has 960 MA's), (366, 34867), (399, 34804), (410, 34774), (418, 34753), (424, 34747), (430, 34738), (479, 34621), (490, 34594), (570, 34501), (576, 34486), (621, 34402), (622, 34399), (659, 34333), (680, 34303), (690, 34273), (709, 34228), (729, 34189), (803, 34009), (821, 33961), (836, 33922), (855, 33856), (871, 33817), (895, 33796), (900, 33775), (906, 33757), (935, 33691), (1009, 33541), (1010, 33538), (1018, 33502), (1035, 33469), (1039, 33457), (1045, 33430), (1066, 33382), (1079, 33361),

Gene: Bexan_43 Start: 35619, Stop: 33832, Start Num: 228
Candidate Starts for Bexan_43:
(Start: 228 @35619 has 960 MA's), (366, 35406), (399, 35343), (410, 35313), (418, 35292), (424, 35286), (430, 35277), (479, 35160), (490, 35133), (570, 35040), (576, 35025), (590, 34992), (621, 34941), (622, 34938), (659, 34872), (680, 34842), (690, 34812), (709, 34767), (729, 34728), (803, 34548), (821, 34500), (836, 34461), (855, 34395), (897, 34323), (900, 34314), (935, 34230), (977, 34143), (1032, 34017), (1036, 34005), (1058, 33945), (1066, 33921), (1069, 33915),

Gene: BiancaTri92_44 Start: 32044, Stop: 30257, Start Num: 228
Candidate Starts for BiancaTri92_44:
(Start: 228 @32044 has 960 MA's), (362, 31837), (366, 31831), (375, 31816), (384, 31801), (410, 31738), (424, 31711), (435, 31690), (490, 31558), (570, 31465), (595, 31408), (607, 31393), (643, 31327), (686, 31246), (707, 31198), (709, 31192), (778, 31054), (803, 30973), (823, 30922), (835, 30889), (836, 30886), (840, 30877), (847, 30850), (855, 30820), (871, 30781), (895, 30760), (900, 30739), (992, 30541), (1009, 30505), (1013, 30481), (1038, 30424), (1042, 30403), (1066, 30346), (1073, 30334), (1079, 30325),

Gene: Big3_43 Start: 34644, Stop: 32818, Start Num: 228
Candidate Starts for Big3_43:
(Start: 228 @34644 has 960 MA's), (366, 34431), (373, 34416), (399, 34368), (410, 34338), (418, 34317), (424, 34311), (430, 34302), (479, 34185), (490, 34158), (570, 34065), (576, 34050), (590, 34017), (621, 33966), (622, 33963), (659, 33897), (680, 33867), (690, 33837), (709, 33792), (729, 33753), (803, 33573), (821, 33525), (836, 33486), (855, 33420), (871, 33381), (895, 33360), (900, 33339), (906, 33321), (935, 33255), (1009, 33105), (1010, 33102), (1018, 33066), (1032, 33042), (1035, 33033), (1039, 33021), (1066, 32946), (1079, 32925),

Gene: Big4_105 Start: 80746, Stop: 78878, Start Num: 223
Candidate Starts for Big4_105:
(206, 80767), (Start: 215 @80758 has 12 MA's), (Start: 217 @80755 has 68 MA's), (Start: 223 @80746 has 3 MA's), (342, 80548), (381, 80488), (390, 80473), (439, 80365), (442, 80359), (488, 80266), (494, 80248), (573, 80173), (613, 80089), (626, 80062), (637, 80041), (660, 80002), (682, 79969), (697, 79927), (713, 79894), (729, 79864), (744, 79837), (803, 79675), (843, 79561), (869, 79477), (877, 79462), (879, 79453), (915, 79366), (919, 79357), (932, 79324), (1002, 79168), (1036, 79072), (1042, 79045), (1066, 78988), (1083, 78964),

Gene: BigMau_45 Start: 34189, Stop: 32360, Start Num: 228
Candidate Starts for BigMau_45:
(Start: 228 @34189 has 960 MA's), (366, 33976), (373, 33961), (399, 33913), (410, 33883), (418, 33862), (424, 33856), (430, 33847), (479, 33730), (490, 33703), (570, 33610), (576, 33595), (583, 33574), (621, 33511), (622, 33508), (654, 33454), (659, 33442), (680, 33412), (690, 33382), (709, 33337), (729, 33298), (803, 33118), (821, 33070), (840, 33022), (851, 32983), (855, 32965), (871, 32926), (895, 32905), (900, 32884), (955, 32746), (1036, 32575), (1041, 32551), (1057, 32518), (1062, 32503), (1066, 32491), (1079, 32470), (1083, 32464), (1102, 32416), (1109, 32401),

Gene: BigPaolini_45 Start: 33608, Stop: 31821, Start Num: 228
Candidate Starts for BigPaolini_45:
(Start: 228 @33608 has 960 MA's), (366, 33395), (373, 33380), (410, 33302), (418, 33281), (424, 33275), (430, 33266), (479, 33149), (490, 33122), (570, 33029), (576, 33014), (590, 32981), (621, 32930), (622, 32927), (654, 32873), (659, 32861), (680, 32831), (690, 32801), (709, 32756), (729, 32717), (803, 32537), (821, 32489), (836, 32450), (855, 32384), (897, 32312), (900, 32303), (935, 32219), (977, 32132), (1032, 32006), (1036, 31994), (1066, 31910), (1069, 31904),

Gene: BigRedClifford_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for BigRedClifford_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (435, 28658), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (701, 28127), (726, 28067), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (879, 27665), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Bigchungi_43 Start: 33771, Stop: 31945, Start Num: 228
Candidate Starts for Bigchungi_43:
(Start: 228 @33771 has 960 MA's), (366, 33558), (373, 33543), (410, 33465), (418, 33444), (424, 33438), (430, 33429), (479, 33312), (490, 33285), (570, 33192), (576, 33177), (590, 33144), (621, 33093), (622, 33090), (659, 33024), (680, 32994), (690, 32964), (709, 32919), (729, 32880), (803, 32700), (815, 32670), (821, 32652), (823, 32649), (836, 32613), (855, 32547), (900, 32466), (901, 32463), (935, 32382), (1009, 32232), (1010, 32229), (1018, 32193), (1032, 32169), (1035, 32160), (1039, 32148), (1066, 32073), (1079, 32052),

Gene: Bigflo_48 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for Bigflo_48:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (732, 30952), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: Bigfoot_41 Start: 33829, Stop: 32003, Start Num: 228
Candidate Starts for Bigfoot_41:
(Start: 228 @33829 has 960 MA's), (366, 33616), (373, 33601), (399, 33553), (410, 33523), (418, 33502), (424, 33496), (430, 33487), (479, 33370), (490, 33343), (570, 33250), (576, 33235), (590, 33202), (621, 33151), (622, 33148), (659, 33082), (690, 33022), (709, 32977), (729, 32938), (803, 32758), (821, 32710), (836, 32671), (855, 32605), (871, 32566), (895, 32545), (900, 32524), (906, 32506), (935, 32440), (1009, 32290), (1010, 32287), (1018, 32251), (1032, 32227), (1035, 32218), (1039, 32206), (1045, 32179), (1066, 32131), (1079, 32110),

Gene: BiggityBass_49 Start: 47333, Stop: 45519, Start Num: 221
Candidate Starts for BiggityBass_49:
(150, 47423), (Start: 221 @47333 has 14 MA's), (Start: 232 @47324 has 2 MA's), (261, 47282), (362, 47114), (384, 47072), (411, 47003), (435, 46964), (440, 46949), (476, 46874), (487, 46853), (569, 46760), (633, 46634), (635, 46631), (648, 46610), (649, 46607), (692, 46517), (748, 46379), (780, 46295), (787, 46277), (804, 46220), (846, 46112), (848, 46106), (851, 46097), (877, 46034), (901, 45995), (906, 45980), (939, 45902), (946, 45890), (948, 45884), (953, 45869), (955, 45860), (1007, 45773), (1013, 45740), (1014, 45737), (1037, 45686), (1040, 45677), (1059, 45617), (1093, 45545),

Gene: BillKnuckles_45 Start: 35369, Stop: 33540, Start Num: 228
Candidate Starts for BillKnuckles_45:
(Start: 228 @35369 has 960 MA's), (366, 35156), (373, 35141), (399, 35093), (410, 35063), (418, 35042), (424, 35036), (430, 35027), (479, 34910), (490, 34883), (570, 34790), (576, 34775), (590, 34742), (621, 34691), (622, 34688), (659, 34622), (680, 34592), (690, 34562), (709, 34517), (729, 34478), (803, 34298), (821, 34250), (840, 34202), (851, 34163), (855, 34145), (871, 34106), (895, 34085), (900, 34064), (905, 34049), (955, 33926), (1036, 33755), (1041, 33731), (1062, 33683), (1066, 33671), (1079, 33650), (1083, 33644), (1102, 33596), (1109, 33581),

Gene: Bimmel_18 Start: 11968, Stop: 10178, Start Num: 228
Candidate Starts for Bimmel_18:
(Start: 228 @11968 has 960 MA's), (366, 11758), (391, 11716), (410, 11665), (424, 11638), (435, 11617), (453, 11572), (490, 11485), (565, 11407), (570, 11392), (626, 11275), (707, 11122), (736, 11077), (746, 11062), (781, 10975), (803, 10906), (826, 10843), (843, 10792), (845, 10786), (855, 10750), (900, 10669), (921, 10624), (1036, 10360), (1058, 10300), (1066, 10276), (1100, 10207), (1101, 10204),

Gene: Biozilla_11 Start: 8829, Stop: 6580, Start Num: 161
Candidate Starts for Biozilla_11:
(Start: 161 @8829 has 21 MA's), (291, 8652), (316, 8607), (388, 8475), (395, 8460), (442, 8328), (451, 8307), (508, 8160), (511, 8139), (517, 8109), (556, 7983), (571, 7944), (645, 7839), (692, 7737), (714, 7686), (723, 7662), (724, 7659), (753, 7578), (778, 7503), (841, 7308), (844, 7296), (857, 7248), (862, 7215), (877, 7170), (879, 7161), (910, 7071), (923, 7047), (970, 6936), (1019, 6798), (1035, 6753), (1062, 6678), (1064, 6675), (1066, 6666), (1073, 6654), (1090, 6615),

Gene: Bircsak_44 Start: 35182, Stop: 33353, Start Num: 228
Candidate Starts for Bircsak_44:
(Start: 228 @35182 has 960 MA's), (366, 34969), (373, 34954), (399, 34906), (410, 34876), (414, 34864), (418, 34855), (424, 34849), (430, 34840), (479, 34723), (490, 34696), (570, 34603), (576, 34588), (583, 34567), (590, 34555), (621, 34504), (622, 34501), (659, 34435), (680, 34405), (690, 34375), (709, 34330), (729, 34291), (803, 34111), (821, 34063), (840, 34015), (851, 33976), (855, 33958), (871, 33919), (895, 33898), (900, 33877), (905, 33862), (955, 33739), (1036, 33568), (1041, 33544), (1062, 33496), (1066, 33484), (1079, 33463), (1083, 33457), (1102, 33409), (1109, 33394),

Gene: Birdfeeder_10 Start: 8667, Stop: 6421, Start Num: 161
Candidate Starts for Birdfeeder_10:
(Start: 161 @8667 has 21 MA's), (247, 8550), (Start: 285 @8499 has 1 MA's), (291, 8490), (395, 8277), (451, 8124), (508, 7977), (511, 7956), (515, 7941), (526, 7881), (556, 7800), (571, 7761), (645, 7656), (714, 7503), (753, 7419), (778, 7344), (841, 7149), (844, 7137), (857, 7089), (877, 7011), (879, 7002), (935, 6858), (970, 6777), (1019, 6639), (1033, 6603), (1035, 6594), (1053, 6546), (1066, 6507), (1073, 6495),

Gene: BirdsNest_61 Start: 54182, Stop: 52338, Start Num: 215

Candidate Starts for BirdsNest_61:
(Start: 215 @54182 has 12 MA's), (261, 54125), (Start: 276 @54098 has 2 MA's), (339, 53996), (390, 53909), (409, 53855), (416, 53834), (435, 53810), (440, 53795), (487, 53690), (569, 53597), (573, 53585), (590, 53549), (649, 53444), (722, 53297), (750, 53213), (753, 53207), (775, 53147), (776, 53144), (787, 53108), (804, 53051), (846, 52943), (848, 52937), (851, 52928), (900, 52814), (906, 52796), (939, 52718), (946, 52706), (953, 52685), (992, 52616), (1002, 52601), (1013, 52556), (1024, 52532), (1040, 52493), (1042, 52478), (1047, 52463), (1059, 52439), (1078, 52394), (1082, 52388), (1093, 52364),

Gene: Bishoperium_60 Start: 54582, Stop: 52723, Start Num: 190
Candidate Starts for Bishoperium_60:
(Start: 173 @54606 has 3 MA's), (Start: 190 @54582 has 336 MA's), (Start: 222 @54558 has 3 MA's), (Start: 232 @54552 has 2 MA's), (261, 54510), (274, 54489), (336, 54375), (339, 54369), (355, 54339), (390, 54279), (398, 54258), (416, 54204), (429, 54192), (436, 54174), (440, 54162), (487, 54057), (552, 54000), (569, 53964), (573, 53952), (585, 53925), (601, 53898), (611, 53880), (622, 53862), (643, 53823), (648, 53814), (649, 53811), (651, 53808), (796, 53451), (804, 53418), (812, 53397), (848, 53304), (851, 53295), (877, 53232), (900, 53196), (901, 53193), (906, 53178), (939, 53100), (946, 53088), (953, 53067), (976, 53028), (1013, 52938), (1022, 52920), (1024, 52914), (1032, 52899), (1040, 52875), (1042, 52860), (1043, 52857), (1047, 52845), (1059, 52821), (1082, 52773), (1093, 52749),

Gene: BlackStallion_62 Start: 54311, Stop: 52452, Start Num: 190
Candidate Starts for BlackStallion_62:
(Start: 173 @54335 has 3 MA's), (Start: 190 @54311 has 336 MA's), (Start: 222 @54287 has 3 MA's), (Start: 232 @54281 has 2 MA's), (261, 54239), (274, 54218), (336, 54104), (339, 54098), (355, 54068), (390, 54008), (398, 53987), (416, 53933), (429, 53921), (436, 53903), (440, 53891), (487, 53786), (552, 53729), (569, 53693), (573, 53681), (583, 53657), (590, 53645), (601, 53627), (611, 53609), (622, 53591), (643, 53552), (648, 53543), (649, 53540), (651, 53537), (796, 53180), (804, 53147), (812, 53126), (848, 53033), (851, 53024), (877, 52961), (900, 52925), (901, 52922), (906, 52907), (939, 52829), (946, 52817), (953, 52796), (976, 52757), (1013, 52667), (1022, 52649), (1024, 52643), (1032, 52628), (1040, 52604), (1042, 52589), (1043, 52586), (1047, 52574), (1059, 52550), (1082, 52502), (1093, 52478),

Gene: Blackflame_44 Start: 33886, Stop: 32060, Start Num: 228
Candidate Starts for Blackflame_44:
(Start: 228 @33886 has 960 MA's), (366, 33673), (373, 33658), (399, 33610), (410, 33580), (418, 33559), (424, 33553), (430, 33544), (479, 33427), (490, 33400), (570, 33307), (576, 33292), (621, 33208), (622, 33205), (659, 33139), (680, 33109), (690, 33079), (709, 33034), (729, 32995), (803, 32815), (815, 32785), (821, 32767), (823, 32764), (836, 32728), (855, 32662), (900, 32581), (901, 32578), (935, 32497), (1009, 32347), (1010, 32344), (1018, 32308), (1032, 32284), (1035, 32275), (1039, 32263), (1066, 32188), (1079, 32167),

Gene: Blackmoor_45 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Blackmoor_45:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Blackpen_53 Start: 47085, Stop: 45268, Start Num: 225
Candidate Starts for Blackpen_53:

(Start: 225 @47085 has 16 MA's), (Start: 232 @47076 has 2 MA's), (249, 47049), (259, 47037), (274, 47013), (278, 47004), (336, 46908), (362, 46866), (381, 46830), (411, 46755), (449, 46680), (487, 46602), (552, 46545), (569, 46509), (573, 46497), (583, 46473), (635, 46380), (649, 46356), (658, 46338), (775, 46065), (787, 46026), (797, 45996), (804, 45969), (846, 45861), (848, 45855), (851, 45846), (897, 45756), (900, 45747), (901, 45744), (906, 45729), (939, 45651), (946, 45639), (948, 45633), (953, 45618), (981, 45570), (1007, 45522), (1013, 45489), (1024, 45465), (1040, 45426), (1042, 45411), (1059, 45366), (1093, 45294),

Gene: BlacksBerry_61 Start: 53942, Stop: 52083, Start Num: 190
Candidate Starts for BlacksBerry_61:
(Start: 173 @53966 has 3 MA's), (Start: 190 @53942 has 336 MA's), (Start: 222 @53918 has 3 MA's), (Start: 232 @53912 has 2 MA's), (261, 53870), (274, 53849), (336, 53735), (339, 53729), (355, 53699), (390, 53639), (398, 53618), (416, 53564), (429, 53552), (436, 53534), (440, 53522), (487, 53417), (552, 53360), (569, 53324), (573, 53312), (583, 53288), (590, 53276), (601, 53258), (611, 53240), (622, 53222), (643, 53183), (648, 53174), (649, 53171), (651, 53168), (796, 52811), (804, 52778), (812, 52757), (848, 52664), (851, 52655), (877, 52592), (900, 52556), (901, 52553), (906, 52538), (939, 52460), (946, 52448), (953, 52427), (976, 52388), (1013, 52298), (1022, 52280), (1024, 52274), (1032, 52259), (1040, 52235), (1042, 52220), (1043, 52217), (1047, 52205), (1059, 52181), (1082, 52133), (1093, 52109),

Gene: Blage_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for Blage_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (435, 28658), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (701, 28127), (726, 28067), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (879, 27665), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: BlessJoy_46 Start: 29785, Stop: 27944, Start Num: 228
Candidate Starts for BlessJoy_46:
(Start: 200 @29815 has 1 MA's), (Start: 228 @29785 has 960 MA's), (360, 29581), (399, 29506), (400, 29503), (410, 29476), (415, 29461), (424, 29449), (448, 29398), (485, 29308), (490, 29296), (570, 29203), (585, 29164), (595, 29146), (607, 29131), (643, 29065), (660, 29032), (663, 29029), (710, 28927), (742, 28867), (778, 28783), (803, 28702), (835, 28618), (836, 28615), (840, 28606), (847, 28579), (855, 28549), (895, 28489), (906, 28450), (1009, 28234), (1010, 28231), (1013, 28210), (1066, 28075), (1073, 28063), (1079, 28054), (1082, 28051), (1115, 27958),

Gene: Blesser_43 Start: 34562, Stop: 32733, Start Num: 228
Candidate Starts for Blesser_43:
(Start: 228 @34562 has 960 MA's), (366, 34349), (399, 34286), (410, 34256), (418, 34235), (424, 34229), (430, 34220), (479, 34103), (490, 34076), (570, 33983), (576, 33968), (621, 33884), (622, 33881), (659, 33815), (680, 33785), (690, 33755), (709, 33710), (729, 33671), (803, 33491), (821, 33443), (840, 33395), (851, 33356), (855, 33338), (871, 33299), (895, 33278), (900, 33257), (905, 33242), (955, 33119), (1036, 32948), (1041, 32924), (1062, 32876), (1066, 32864), (1079, 32843), (1083, 32837), (1102, 32789), (1109, 32774),

Gene: Blinn1_48 Start: 30144, Stop: 28303, Start Num: 228
Candidate Starts for Blinn1_48:
(Start: 228 @30144 has 960 MA's), (360, 29940), (399, 29865), (400, 29862), (415, 29820), (424, 29808), (448, 29757), (490, 29655), (570, 29562), (585, 29523), (595, 29505), (607, 29490), (643, 29424), (660, 29391), (663, 29388), (710, 29286), (742, 29226), (778, 29142), (803, 29061), (835,

28977), (836, 28974), (840, 28965), (847, 28938), (851, 28926), (855, 28908), (895, 28848), (906, 28809), (919, 28785), (1009, 28593), (1010, 28590), (1013, 28569), (1066, 28434), (1073, 28422), (1079, 28413), (1082, 28410), (1115, 28317),

Gene: Blocker23_57 Start: 52599, Stop: 50770, Start Num: 190
Candidate Starts for Blocker23_57:
(Start: 190 @52599 has 336 MA's), (Start: 232 @52572 has 2 MA's), (Start: 255 @52542 has 8 MA's), (261, 52530), (Start: 276 @52503 has 2 MA's), (278, 52500), (284, 52491), (307, 52473), (362, 52377), (390, 52326), (399, 52302), (406, 52278), (467, 52140), (482, 52116), (487, 52104), (552, 52047), (569, 52011), (573, 51999), (583, 51975), (630, 51891), (648, 51861), (649, 51858), (664, 51828), (727, 51684), (755, 51618), (771, 51579), (775, 51567), (780, 51546), (787, 51528), (804, 51471), (840, 51387), (848, 51357), (851, 51348), (875, 51282), (897, 51255), (900, 51246), (906, 51228), (919, 51204), (939, 51150), (946, 51138), (953, 51117), (992, 51048), (1013, 50988), (1022, 50970), (1036, 50937), (1040, 50925), (1042, 50910), (1043, 50907), (1047, 50895), (1059, 50871), (1060, 50868), (1082, 50820), (1083, 50817), (1093, 50796), (1100, 50775),

Gene: Bloom_103 Start: 78450, Stop: 80246, Start Num: 238
Candidate Starts for Bloom_103:
(Start: 238 @78450 has 11 MA's), (304, 78546), (429, 78762), (439, 78789), (442, 78795), (479, 78864), (493, 78900), (613, 79047), (616, 79053), (626, 79074), (633, 79089), (729, 79278), (753, 79323), (769, 79356), (774, 79374), (783, 79407), (798, 79446), (803, 79467), (806, 79473), (845, 79587), (870, 79671), (876, 79677), (879, 79689), (898, 79737), (902, 79749), (919, 79785), (932, 79818), (935, 79827), (953, 79872), (960, 79890), (1002, 79974), (1009, 79995), (1014, 80022), (1022, 80037), (1036, 80070), (1041, 80094), (1049, 80118), (1066, 80154), (1083, 80181),

Gene: BluSpix_42 Start: 30791, Stop: 28962, Start Num: 228
Candidate Starts for BluSpix_42:
(Start: 228 @30791 has 960 MA's), (366, 30578), (399, 30515), (410, 30485), (418, 30464), (424, 30458), (430, 30449), (479, 30332), (490, 30305), (570, 30212), (576, 30197), (590, 30164), (621, 30113), (622, 30110), (659, 30044), (690, 29984), (709, 29939), (729, 29900), (803, 29720), (821, 29672), (840, 29624), (851, 29585), (855, 29567), (871, 29528), (895, 29507), (900, 29486), (905, 29471), (955, 29348), (1036, 29177), (1041, 29153), (1062, 29105), (1066, 29093), (1079, 29072), (1083, 29066), (1102, 29018), (1109, 29003),

Gene: Blue_44 Start: 34966, Stop: 33140, Start Num: 228
Candidate Starts for Blue_44:
(Start: 228 @34966 has 960 MA's), (366, 34753), (373, 34738), (410, 34660), (418, 34639), (424, 34633), (430, 34624), (479, 34507), (490, 34480), (570, 34387), (576, 34372), (621, 34288), (622, 34285), (659, 34219), (680, 34189), (690, 34159), (709, 34114), (729, 34075), (803, 33895), (821, 33847), (823, 33844), (836, 33808), (855, 33742), (871, 33703), (895, 33682), (900, 33661), (906, 33643), (935, 33577), (1009, 33427), (1010, 33424), (1018, 33388), (1032, 33364), (1039, 33343), (1042, 33325), (1045, 33316), (1066, 33268), (1079, 33247),

Gene: Blue7_48 Start: 29980, Stop: 28181, Start Num: 228
Candidate Starts for Blue7_48:
(Start: 228 @29980 has 960 MA's), (360, 29776), (366, 29767), (399, 29701), (400, 29698), (410, 29671), (415, 29656), (424, 29644), (448, 29593), (485, 29503), (490, 29491), (570, 29398), (590, 29350), (595, 29341), (693, 29158), (771, 29008), (803, 28903), (823, 28846), (836, 28810), (840, 28801), (847, 28774), (855, 28744), (871, 28705), (895, 28684), (904, 28651), (906, 28645), (949, 28546), (982, 28483), (1009, 28429), (1013, 28405), (1038, 28348), (1066, 28270), (1073, 28258), (1079, 28249), (1082, 28246),

Gene: BlueBird_47 Start: 31555, Stop: 29717, Start Num: 228

Candidate Starts for BlueBird_47:
(Start: 228 @31555 has 960 MA's), (263, 31504), (307, 31438), (360, 31351), (396, 31291), (399, 31279), (424, 31222), (430, 31213), (480, 31093), (490, 31069), (570, 30973), (592, 30925), (626, 30865), (663, 30802), (696, 30733), (707, 30712), (744, 30640), (767, 30598), (778, 30556), (803, 30475), (821, 30427), (847, 30352), (855, 30322), (869, 30292), (901, 30211), (919, 30172), (929, 30148), (935, 30130), (992, 30001), (1013, 29941), (1066, 29806), (1073, 29794), (1079, 29785),

Gene: BlueHusk_62 Start: 54066, Stop: 52207, Start Num: 190
Candidate Starts for BlueHusk_62:
(Start: 173 @54090 has 3 MA's), (Start: 190 @54066 has 336 MA's), (Start: 222 @54042 has 3 MA's), (Start: 232 @54036 has 2 MA's), (249, 54009), (261, 53994), (274, 53973), (336, 53859), (339, 53853), (355, 53823), (390, 53763), (398, 53742), (416, 53688), (429, 53676), (436, 53658), (440, 53646), (487, 53541), (552, 53484), (569, 53448), (573, 53436), (585, 53409), (590, 53400), (611, 53364), (643, 53307), (648, 53298), (649, 53295), (651, 53292), (796, 52935), (804, 52902), (812, 52881), (848, 52788), (851, 52779), (877, 52716), (900, 52680), (901, 52677), (906, 52662), (939, 52584), (946, 52572), (953, 52551), (976, 52512), (1013, 52422), (1022, 52404), (1024, 52398), (1032, 52383), (1040, 52359), (1042, 52344), (1043, 52341), (1047, 52329), (1059, 52305), (1082, 52257), (1093, 52233),

Gene: BlueNGold_170 Start: 99709, Stop: 97928, Start Num: 230
Candidate Starts for BlueNGold_170:
(Start: 230 @99709 has 52 MA's), (263, 99664), (Start: 276 @99637 has 2 MA's), (342, 99544), (381, 99484), (383, 99481), (388, 99472), (398, 99448), (413, 99406), (414, 99403), (439, 99358), (462, 99316), (488, 99262), (570, 99178), (613, 99094), (626, 99067), (633, 99052), (717, 98893), (729, 98869), (735, 98854), (742, 98845), (781, 98758), (792, 98731), (793, 98728), (798, 98707), (803, 98686), (822, 98635), (851, 98551), (857, 98524), (869, 98491), (888, 98449), (932, 98338), (942, 98311), (956, 98275), (961, 98266), (963, 98263), (969, 98254), (1014, 98134), (1024, 98113), (1027, 98107), (1040, 98074), (1043, 98056), (1045, 98050), (1061, 98017), (1066, 98002), (1084, 97978), (1085, 97975), (1097, 97951),

Gene: BlueRugrat_10 Start: 8837, Stop: 6600, Start Num: 172
Candidate Starts for BlueRugrat_10:
(48, 9131), (67, 9077), (100, 8966), (113, 8933), (115, 8930), (120, 8921), (130, 8894), (Start: 172 @8837 has 7 MA's), (247, 8729), (257, 8723), (Start: 285 @8678 has 1 MA's), (291, 8669), (388, 8471), (395, 8456), (451, 8303), (457, 8288), (508, 8156), (511, 8135), (515, 8120), (526, 8060), (556, 7979), (571, 7940), (645, 7835), (714, 7682), (753, 7598), (778, 7523), (841, 7328), (844, 7316), (857, 7268), (877, 7190), (879, 7181), (910, 7091), (923, 7067), (935, 7037), (970, 6956), (1019, 6818), (1033, 6782), (1035, 6773), (1053, 6725), (1066, 6686), (1073, 6674),

Gene: Bluefalcon_37 Start: 30628, Stop: 28769, Start Num: 228
Candidate Starts for Bluefalcon_37:
(Start: 228 @30628 has 960 MA's), (263, 30577), (304, 30517), (343, 30454), (360, 30424), (362, 30421), (396, 30364), (410, 30322), (424, 30295), (490, 30142), (570, 30046), (582, 30013), (590, 29998), (637, 29914), (643, 29908), (660, 29875), (703, 29788), (709, 29776), (729, 29737), (761, 29677), (803, 29542), (815, 29512), (821, 29494), (835, 29458), (836, 29455), (855, 29389), (871, 29350), (900, 29308), (906, 29290), (929, 29242), (931, 29236), (949, 29191), (977, 29137), (982, 29128), (992, 29110), (1022, 29032), (1041, 28975), (1058, 28939), (1066, 28915), (1073, 28903), (1119, 28786), (1121, 28783),

Gene: Bluephacebaby_60 Start: 54585, Stop: 52726, Start Num: 190
Candidate Starts for Bluephacebaby_60:
(Start: 173 @54609 has 3 MA's), (Start: 190 @54585 has 336 MA's), (Start: 222 @54561 has 3 MA's), (Start: 232 @54555 has 2 MA's), (261, 54513), (274, 54492), (336, 54378), (339, 54372), (355, 54342),

(390, 54282), (398, 54261), (416, 54207), (429, 54195), (436, 54177), (440, 54165), (487, 54060), (552, 54003), (569, 53967), (573, 53955), (585, 53928), (611, 53883), (643, 53826), (648, 53817), (649, 53814), (796, 53454), (804, 53421), (812, 53400), (848, 53307), (851, 53298), (877, 53235), (900, 53199), (901, 53196), (906, 53181), (939, 53103), (946, 53091), (953, 53070), (976, 53031), (1013, 52941), (1022, 52923), (1024, 52917), (1032, 52902), (1040, 52878), (1042, 52863), (1043, 52860), (1047, 52848), (1059, 52824), (1082, 52776), (1093, 52752),

Gene: Bob3_42 Start: 33539, Stop: 31710, Start Num: 228
Candidate Starts for Bob3_42:
(Start: 228 @33539 has 960 MA's), (366, 33326), (373, 33311), (399, 33263), (410, 33233), (418, 33212), (424, 33206), (430, 33197), (479, 33080), (490, 33053), (570, 32960), (576, 32945), (583, 32924), (621, 32861), (622, 32858), (659, 32792), (680, 32762), (690, 32732), (709, 32687), (729, 32648), (803, 32468), (821, 32420), (840, 32372), (851, 32333), (855, 32315), (871, 32276), (895, 32255), (900, 32234), (955, 32096), (1036, 31925), (1041, 31901), (1057, 31868), (1062, 31853), (1066, 31841), (1079, 31820), (1083, 31814), (1102, 31766), (1109, 31751),

Gene: BobRoss2024_51 Start: 46234, Stop: 44420, Start Num: 225
Candidate Starts for BobRoss2024_51:
(Start: 225 @46234 has 16 MA's), (249, 46198), (278, 46153), (336, 46057), (355, 46024), (358, 46021), (362, 46015), (384, 45973), (439, 45853), (487, 45754), (552, 45697), (635, 45532), (649, 45508), (775, 45217), (787, 45178), (797, 45148), (804, 45121), (848, 45007), (851, 44998), (900, 44899), (901, 44896), (906, 44881), (939, 44803), (946, 44791), (953, 44770), (1007, 44674), (1014, 44638), (1024, 44617), (1040, 44578), (1042, 44563), (1049, 44542), (1059, 44518), (1082, 44470), (1093, 44446), (1100, 44425),

Gene: BobSwaget_44 Start: 31390, Stop: 29603, Start Num: 228
Candidate Starts for BobSwaget_44:
(Start: 228 @31390 has 960 MA's), (362, 31183), (366, 31177), (384, 31147), (399, 31114), (400, 31111), (415, 31069), (424, 31057), (490, 30904), (570, 30811), (590, 30763), (595, 30754), (607, 30739), (643, 30673), (707, 30544), (778, 30400), (803, 30319), (823, 30268), (835, 30235), (836, 30232), (855, 30166), (871, 30127), (895, 30106), (924, 30031), (929, 30019), (958, 29941), (982, 29905), (992, 29887), (1009, 29851), (1013, 29827), (1042, 29749), (1066, 29692), (1073, 29680), (1079, 29671),

Gene: BobbyDazzler_36 Start: 28159, Stop: 26375, Start Num: 228
Candidate Starts for BobbyDazzler_36:
(Start: 228 @28159 has 960 MA's), (379, 27925), (396, 27895), (398, 27886), (399, 27883), (415, 27838), (424, 27826), (430, 27817), (448, 27775), (490, 27673), (498, 27652), (570, 27580), (587, 27535), (590, 27532), (617, 27490), (619, 27484), (626, 27469), (643, 27442), (696, 27337), (709, 27310), (729, 27271), (803, 27091), (821, 27043), (855, 26938), (856, 26935), (895, 26878), (900, 26857), (922, 26809), (951, 26734), (990, 26665), (1009, 26623), (1013, 26599), (1042, 26521), (1066, 26464), (1073, 26452), (1100, 26395),

Gene: BobbyK_54 Start: 53968, Stop: 52145, Start Num: 182
Candidate Starts for BobbyK_54:
(Start: 163 @53986 has 29 MA's), (Start: 182 @53968 has 33 MA's), (Start: 232 @53944 has 2 MA's), (249, 53917), (261, 53902), (274, 53881), (324, 53794), (386, 53689), (402, 53647), (436, 53581), (449, 53551), (452, 53542), (457, 53539), (458, 53536), (467, 53509), (552, 53416), (560, 53398), (569, 53380), (573, 53368), (585, 53341), (622, 53278), (643, 53239), (648, 53230), (649, 53227), (664, 53197), (685, 53161), (775, 52936), (776, 52933), (787, 52897), (796, 52873), (804, 52840), (846, 52732), (848, 52726), (851, 52717), (900, 52618), (901, 52615), (906, 52600), (939, 52522), (946, 52510), (953, 52489), (955, 52480), (976, 52450), (992, 52420), (1007, 52393), (1013, 52360), (1024, 52336), (1040, 52297), (1043, 52279), (1047, 52267), (1059, 52243), (1078, 52201), (1082,

52195), (1093, 52171),

Gene: Boehler_60 Start: 54229, Stop: 52370, Start Num: 190
Candidate Starts for Boehler_60:
(Start: 173 @54253 has 3 MA's), (Start: 190 @54229 has 336 MA's), (Start: 222 @54205 has 3 MA's), (Start: 232 @54199 has 2 MA's), (261, 54157), (274, 54136), (336, 54022), (339, 54016), (355, 53986), (390, 53926), (398, 53905), (416, 53851), (429, 53839), (436, 53821), (440, 53809), (487, 53704), (552, 53647), (569, 53611), (573, 53599), (583, 53575), (590, 53563), (601, 53545), (611, 53527), (622, 53509), (643, 53470), (648, 53461), (649, 53458), (651, 53455), (796, 53098), (804, 53065), (812, 53044), (848, 52951), (851, 52942), (877, 52879), (900, 52843), (901, 52840), (906, 52825), (939, 52747), (946, 52735), (953, 52714), (976, 52675), (1013, 52585), (1022, 52567), (1024, 52561), (1032, 52546), (1040, 52522), (1042, 52507), (1043, 52504), (1047, 52492), (1059, 52468), (1082, 52420), (1093, 52396),

Gene: Boersma_57 Start: 36879, Stop: 34711, Start Num: 213
Candidate Starts for Boersma_57:
(212, 36882), (Start: 213 @36879 has 13 MA's), (251, 36825), (299, 36741), (382, 36588), (387, 36579), (404, 36534), (429, 36456), (432, 36447), (438, 36432), (446, 36417), (447, 36414), (467, 36357), (506, 36264), (520, 36222), (601, 36027), (607, 36015), (609, 36009), (622, 35985), (631, 35964), (646, 35943), (653, 35928), (656, 35922), (689, 35859), (709, 35808), (737, 35721), (763, 35661), (778, 35613), (813, 35511), (815, 35505), (824, 35478), (825, 35475), (835, 35454), (848, 35412), (850, 35406), (856, 35382), (876, 35340), (877, 35337), (888, 35310), (896, 35277), (898, 35265), (914, 35229), (924, 35205), (926, 35199), (929, 35193), (950, 35139), (976, 35091), (977, 35088), (1002, 35028), (1009, 35004), (1015, 34974), (1037, 34920), (1054, 34851), (1059, 34839), (1075, 34800),

Gene: BogosyJay_44 Start: 31342, Stop: 29549, Start Num: 228
Candidate Starts for BogosyJay_44:
(Start: 228 @31342 has 960 MA's), (235, 31333), (304, 31231), (342, 31171), (343, 31168), (360, 31138), (366, 31129), (384, 31096), (399, 31063), (400, 31060), (410, 31033), (415, 31018), (424, 31006), (490, 30853), (570, 30760), (643, 30622), (659, 30592), (742, 30421), (764, 30394), (767, 30388), (803, 30265), (851, 30130), (855, 30112), (900, 30031), (949, 29914), (1009, 29797), (1013, 29773), (1042, 29695), (1066, 29638), (1073, 29626), (1079, 29617),

Gene: Bombshell_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Bombshell_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Bonamassa_39 Start: 30653, Stop: 28809, Start Num: 228
Candidate Starts for Bonamassa_39:
(Start: 228 @30653 has 960 MA's), (263, 30602), (304, 30542), (343, 30479), (360, 30449), (362, 30446), (396, 30389), (399, 30377), (410, 30347), (424, 30320), (490, 30167), (570, 30071), (590, 30023), (637, 29939), (643, 29933), (685, 29861), (696, 29828), (703, 29813), (709, 29801), (761, 29702), (803, 29567), (815, 29537), (821, 29519), (823, 29516), (836, 29480), (840, 29471), (845, 29450), (848, 29441), (855, 29414), (856, 29411), (895, 29354), (900, 29333), (949, 29216), (977, 29162), (982, 29153), (992, 29135), (1013, 29075), (1022, 29057), (1041, 29000), (1058, 28964), (1066, 28940), (1073, 28928),

Gene: Bonanza_36 Start: 28087, Stop: 26303, Start Num: 228

Candidate Starts for Bonanza_36:
(Start: 228 @28087 has 960 MA's), (379, 27853), (396, 27823), (398, 27814), (399, 27811), (415, 27766), (424, 27754), (430, 27745), (448, 27703), (490, 27601), (498, 27580), (570, 27508), (587, 27463), (590, 27460), (617, 27418), (619, 27412), (626, 27397), (643, 27370), (696, 27265), (709, 27238), (729, 27199), (803, 27019), (821, 26971), (855, 26866), (856, 26863), (895, 26806), (900, 26785), (922, 26737), (951, 26662), (990, 26593), (1009, 26551), (1013, 26527), (1042, 26449), (1066, 26392), (1073, 26380), (1100, 26323),

Gene: Bones_45 Start: 35104, Stop: 33317, Start Num: 228
Candidate Starts for Bones_45:
(Start: 228 @35104 has 960 MA's), (366, 34891), (373, 34876), (410, 34798), (418, 34777), (424, 34771), (430, 34762), (479, 34645), (490, 34618), (570, 34525), (576, 34510), (621, 34426), (622, 34423), (659, 34357), (680, 34327), (690, 34297), (709, 34252), (729, 34213), (803, 34033), (821, 33985), (836, 33946), (855, 33880), (897, 33808), (900, 33799), (935, 33715), (977, 33628), (1032, 33502), (1036, 33490), (1066, 33406), (1069, 33400),

Gene: BonesMcCoy_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for BonesMcCoy_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (433, 28661), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (726, 28067), (749, 28013), (758, 27992), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Bonino_38 Start: 28608, Stop: 26743, Start Num: 301
Candidate Starts for Bonino_38:
(Start: 241 @28695 has 3 MA's), (Start: 301 @28608 has 153 MA's), (Start: 305 @28599 has 5 MA's), (353, 28494), (360, 28485), (378, 28455), (380, 28452), (435, 28332), (439, 28320), (442, 28314), (483, 28209), (494, 28182), (582, 28041), (585, 28035), (586, 28032), (590, 28020), (606, 27993), (607, 27990), (614, 27975), (618, 27969), (621, 27963), (638, 27930), (701, 27801), (726, 27741), (847, 27426), (850, 27417), (851, 27414), (855, 27396), (873, 27354), (877, 27348), (888, 27324), (908, 27267), (974, 27108), (989, 27078), (992, 27069), (1010, 27009), (1013, 26985), (1028, 26946), (1040, 26913), (1044, 26901), (1068, 26841),

Gene: BooTeria_89 Start: 75090, Stop: 76808, Start Num: 285
Candidate Starts for BooTeria_89:
(Start: 238 @75015 has 11 MA's), (261, 75048), (Start: 273 @75069 has 1 MA's), (Start: 276 @75078 has 2 MA's), (Start: 285 @75090 has 1 MA's), (429, 75327), (439, 75354), (442, 75360), (544, 75495), (613, 75612), (626, 75639), (629, 75645), (633, 75654), (666, 75708), (729, 75840), (737, 75861), (755, 75888), (774, 75936), (783, 75969), (798, 76008), (803, 76029), (806, 76035), (845, 76152), (870, 76236), (871, 76239), (898, 76302), (902, 76314), (919, 76350), (932, 76383), (953, 76437), (960, 76455), (1002, 76539), (1009, 76560), (1014, 76587), (1036, 76635), (1038, 76641), (1041, 76659), (1045, 76671), (1049, 76683), (1053, 76686), (1066, 76719), (1083, 76746), (1094, 76770),

Gene: BoogieWoogie_62 Start: 54018, Stop: 52159, Start Num: 190
Candidate Starts for BoogieWoogie_62:
(Start: 173 @54042 has 3 MA's), (Start: 190 @54018 has 336 MA's), (Start: 222 @53994 has 3 MA's), (Start: 232 @53988 has 2 MA's), (261, 53946), (274, 53925), (336, 53811), (339, 53805), (355, 53775), (390, 53715), (398, 53694), (416, 53640), (429, 53628), (436, 53610), (440, 53598), (487, 53493), (552, 53436), (569, 53400), (573, 53388), (585, 53361), (601, 53334), (611, 53316), (622, 53298), (643, 53259), (648, 53250), (649, 53247), (761, 52989), (796, 52887), (804, 52854), (812, 52833),

(848, 52740), (851, 52731), (877, 52668), (900, 52632), (901, 52629), (906, 52614), (939, 52536), (946, 52524), (953, 52503), (976, 52464), (1013, 52374), (1022, 52356), (1024, 52350), (1032, 52335), (1040, 52311), (1042, 52296), (1043, 52293), (1047, 52281), (1059, 52257), (1082, 52209), (1093, 52185),

Gene: Boohoo_47 Start: 29967, Stop: 28177, Start Num: 228
Candidate Starts for Boohoo_47:
(Start: 228 @29967 has 960 MA's), (343, 29793), (399, 29688), (400, 29685), (410, 29658), (424, 29631), (448, 29580), (490, 29478), (570, 29385), (587, 29340), (590, 29337), (595, 29328), (686, 29166), (696, 29139), (707, 29118), (709, 29112), (768, 29013), (778, 28974), (796, 28923), (803, 28893), (823, 28842), (835, 28809), (845, 28776), (847, 28770), (855, 28740), (895, 28680), (900, 28659), (919, 28617), (930, 28590), (935, 28575), (977, 28488), (1009, 28425), (1010, 28422), (1066, 28266), (1073, 28254), (1082, 28242),

Gene: Boopy_173 Start: 99720, Stop: 97939, Start Num: 230
Candidate Starts for Boopy_173:
(Start: 230 @99720 has 52 MA's), (263, 99675), (Start: 276 @99648 has 2 MA's), (342, 99555), (381, 99495), (383, 99492), (388, 99483), (398, 99459), (413, 99417), (414, 99414), (439, 99369), (462, 99327), (488, 99273), (570, 99189), (613, 99105), (626, 99078), (633, 99063), (717, 98904), (729, 98880), (735, 98865), (742, 98856), (781, 98769), (792, 98742), (793, 98739), (798, 98718), (803, 98697), (822, 98646), (851, 98562), (857, 98535), (869, 98502), (888, 98460), (932, 98349), (942, 98322), (956, 98286), (961, 98277), (963, 98274), (969, 98265), (1014, 98145), (1024, 98124), (1027, 98118), (1040, 98085), (1043, 98067), (1045, 98061), (1061, 98028), (1066, 98013), (1084, 97989), (1085, 97986), (1097, 97962),

Gene: BouleyBill_36 Start: 28490, Stop: 26640, Start Num: 297
Candidate Starts for BouleyBill_36:
(Start: 297 @28490 has 21 MA's), (360, 28367), (380, 28334), (431, 28223), (439, 28202), (442, 28196), (446, 28187), (460, 28145), (560, 27989), (582, 27935), (585, 27929), (586, 27926), (590, 27914), (607, 27884), (636, 27827), (706, 27680), (768, 27533), (847, 27323), (851, 27311), (855, 27293), (873, 27251), (879, 27236), (908, 27164), (989, 26975), (992, 26966), (1010, 26906), (1013, 26882), (1025, 26849), (1068, 26738),

Gene: Bowtie_45 Start: 30783, Stop: 28996, Start Num: 228
Candidate Starts for Bowtie_45:
(Start: 228 @30783 has 960 MA's), (360, 30579), (399, 30507), (410, 30477), (424, 30450), (572, 30198), (595, 30147), (643, 30066), (668, 30021), (707, 29937), (733, 29880), (766, 29838), (778, 29793), (803, 29712), (823, 29661), (836, 29625), (855, 29559), (895, 29499), (897, 29487), (938, 29385), (949, 29361), (954, 29343), (992, 29280), (1007, 29253), (1009, 29244), (1013, 29220), (1066, 29085), (1073, 29073), (1079, 29064),

Gene: Boyle_57 Start: 52628, Stop: 50799, Start Num: 190
Candidate Starts for Boyle_57:
(Start: 190 @52628 has 336 MA's), (Start: 232 @52601 has 2 MA's), (Start: 255 @52571 has 8 MA's), (261, 52559), (Start: 276 @52532 has 2 MA's), (278, 52529), (284, 52520), (307, 52502), (362, 52406), (390, 52355), (399, 52331), (406, 52307), (467, 52169), (482, 52145), (487, 52133), (552, 52076), (569, 52040), (573, 52028), (583, 52004), (630, 51920), (648, 51890), (649, 51887), (664, 51857), (727, 51713), (755, 51647), (771, 51608), (775, 51596), (780, 51575), (787, 51557), (804, 51500), (840, 51416), (848, 51386), (851, 51377), (875, 51311), (897, 51284), (900, 51275), (906, 51257), (919, 51233), (939, 51179), (946, 51167), (953, 51146), (992, 51077), (1013, 51017), (1022, 50999), (1036, 50966), (1040, 50954), (1042, 50939), (1043, 50936), (1047, 50924), (1059, 50900), (1060, 50897), (1082, 50849), (1083, 50846), (1093, 50825), (1100, 50804),

Gene: Brad_36 Start: 31887, Stop: 30142, Start Num: 260
Candidate Starts for Brad_36:
(Start: 241 @31914 has 3 MA's), (Start: 260 @31887 has 6 MA's), (262, 31884), (Start: 277 @31851 has 1 MA's), (280, 31845), (337, 31752), (357, 31719), (374, 31692), (441, 31557), (536, 31428), (539, 31422), (556, 31398), (563, 31383), (573, 31356), (585, 31326), (626, 31245), (630, 31236), (664, 31176), (680, 31155), (735, 31041), (744, 31023), (872, 30645), (880, 30627), (921, 30561), (926, 30546), (1018, 30327), (1036, 30285), (1066, 30201), (1087, 30168),

Gene: Bradman_44 Start: 30374, Stop: 28545, Start Num: 227
Candidate Starts for Bradman_44:
(Start: 227 @30374 has 33 MA's), (360, 30170), (362, 30167), (366, 30161), (375, 30146), (384, 30131), (398, 30101), (399, 30098), (410, 30068), (424, 30041), (435, 30020), (448, 29990), (490, 29888), (570, 29795), (590, 29747), (595, 29738), (607, 29723), (643, 29657), (686, 29576), (707, 29528), (729, 29483), (803, 29303), (821, 29255), (823, 29252), (836, 29216), (855, 29150), (871, 29111), (895, 29090), (924, 29015), (931, 28997), (949, 28952), (958, 28925), (982, 28889), (992, 28871), (1009, 28835), (1013, 28811), (1042, 28733), (1066, 28676), (1073, 28664), (1079, 28655), (1100, 28607), (1113, 28577), (1116, 28559), (1118, 28556),

Gene: Bradshaw_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for Bradshaw_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (710, 27261), (729, 27225), (803, 27045), (821, 26997), (855, 26892), (856, 26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1094, 26367), (1100, 26349),

Gene: Brahms_40 Start: 27441, Stop: 29309, Start Num: 215
Candidate Starts for Brahms_40:
(Start: 215 @27441 has 12 MA's), (Start: 217 @27444 has 68 MA's), (220, 27447), (Start: 273 @27516 has 1 MA's), (448, 27825), (473, 27879), (585, 28044), (626, 28119), (637, 28140), (784, 28494), (803, 28554), (823, 28605), (845, 28671), (855, 28707), (898, 28800), (973, 28971), (1009, 29043), (1038, 29124), (1065, 29199), (1066, 29202), (1079, 29223), (1108, 29292),

Gene: BreSam8_48 Start: 31846, Stop: 30032, Start Num: 228
Candidate Starts for BreSam8_48:
(Start: 228 @31846 has 960 MA's), (257, 31807), (263, 31795), (360, 31642), (369, 31627), (399, 31570), (424, 31513), (430, 31504), (448, 31462), (465, 31411), (490, 31360), (570, 31267), (590, 31219), (595, 31210), (607, 31195), (626, 31156), (643, 31129), (659, 31099), (703, 31006), (732, 30946), (742, 30931), (803, 30775), (836, 30688), (855, 30622), (871, 30583), (901, 30511), (919, 30472), (929, 30448), (935, 30430), (949, 30397), (958, 30370), (992, 30316), (1013, 30256), (1042, 30178), (1066, 30121), (1073, 30109), (1079, 30100),

Gene: Briakila_57 Start: 53649, Stop: 51832, Start Num: 230
Candidate Starts for Briakila_57:
(110, 53832), (Start: 230 @53649 has 52 MA's), (249, 53619), (366, 53439), (435, 53286), (439, 53274), (452, 53244), (458, 53238), (487, 53175), (489, 53169), (552, 53118), (566, 53091), (569, 53082), (590, 53034), (649, 52929), (694, 52833), (722, 52782), (775, 52638), (787, 52599), (797, 52569), (804, 52542), (810, 52530), (846, 52434), (848, 52428), (851, 52419), (854, 52407), (883, 52335), (900, 52305), (906, 52287), (912, 52278), (939, 52209), (946, 52197), (953, 52176), (992, 52107), (1002, 52092), (1010, 52068), (1013, 52047), (1022, 52029), (1024, 52023), (1038, 51990), (1040, 51984), (1043, 51966), (1047, 51954), (1054, 51942), (1059, 51930), (1078, 51888), (1093, 51858),

Gene: Brilliant_63 Start: 54544, Stop: 52685, Start Num: 190
Candidate Starts for Brilliant_63:
(Start: 173 @54568 has 3 MA's), (Start: 190 @54544 has 336 MA's), (Start: 222 @54520 has 3 MA's), (Start: 232 @54514 has 2 MA's), (261, 54472), (274, 54451), (336, 54337), (339, 54331), (355, 54301), (390, 54241), (398, 54220), (416, 54166), (429, 54154), (436, 54136), (440, 54124), (487, 54019), (552, 53962), (569, 53926), (573, 53914), (583, 53890), (590, 53878), (601, 53860), (611, 53842), (622, 53824), (643, 53785), (648, 53776), (649, 53773), (651, 53770), (796, 53413), (804, 53380), (812, 53359), (848, 53266), (851, 53257), (877, 53194), (900, 53158), (901, 53155), (906, 53140), (939, 53062), (946, 53050), (953, 53029), (976, 52990), (1013, 52900), (1022, 52882), (1024, 52876), (1032, 52861), (1040, 52837), (1042, 52822), (1043, 52819), (1047, 52807), (1059, 52783), (1082, 52735), (1093, 52711),

Gene: Briton15_46 Start: 34660, Stop: 32834, Start Num: 228
Candidate Starts for Briton15_46:
(Start: 228 @34660 has 960 MA's), (366, 34447), (373, 34432), (399, 34384), (410, 34354), (418, 34333), (424, 34327), (430, 34318), (479, 34201), (490, 34174), (570, 34081), (576, 34066), (590, 34033), (621, 33982), (622, 33979), (659, 33913), (680, 33883), (690, 33853), (709, 33808), (729, 33769), (803, 33589), (815, 33559), (821, 33541), (836, 33502), (855, 33436), (871, 33397), (895, 33376), (900, 33355), (906, 33337), (935, 33271), (1009, 33121), (1010, 33118), (1018, 33082), (1032, 33058), (1035, 33049), (1039, 33037), (1066, 32962), (1079, 32941),

Gene: Broseidon_45 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Broseidon_45:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: BrownCNA_55 Start: 54328, Stop: 52487, Start Num: 163
Candidate Starts for BrownCNA_55:
(Start: 163 @54328 has 29 MA's), (Start: 182 @54310 has 33 MA's), (Start: 232 @54286 has 2 MA's), (249, 54259), (261, 54244), (274, 54223), (324, 54136), (386, 54031), (398, 54004), (402, 53989), (436, 53923), (449, 53893), (452, 53884), (457, 53881), (458, 53878), (467, 53851), (552, 53758), (560, 53740), (569, 53722), (573, 53710), (585, 53683), (622, 53620), (643, 53581), (648, 53572), (649, 53569), (664, 53539), (685, 53503), (775, 53278), (776, 53275), (787, 53239), (796, 53215), (804, 53182), (846, 53074), (848, 53068), (851, 53059), (900, 52960), (901, 52957), (906, 52942), (939, 52864), (946, 52852), (953, 52831), (955, 52822), (976, 52792), (1007, 52735), (1013, 52702), (1024, 52678), (1040, 52639), (1043, 52621), (1047, 52609), (1059, 52585), (1078, 52543), (1082, 52537), (1093, 52513),

Gene: Brownie5_57 Start: 52641, Stop: 50812, Start Num: 190
Candidate Starts for Brownie5_57:
(Start: 190 @52641 has 336 MA's), (Start: 232 @52614 has 2 MA's), (Start: 255 @52584 has 8 MA's), (261, 52572), (Start: 276 @52545 has 2 MA's), (278, 52542), (284, 52533), (307, 52515), (362, 52419), (390, 52368), (399, 52344), (467, 52182), (476, 52167), (482, 52158), (487, 52146), (552, 52089), (569, 52053), (573, 52041), (583, 52017), (630, 51933), (648, 51903), (649, 51900), (664, 51870), (727, 51726), (755, 51660), (771, 51621), (775, 51609), (780, 51588), (787, 51570), (804, 51513), (831, 51456), (840, 51429), (848, 51399), (851, 51390), (875, 51324), (897, 51297), (900, 51288), (906, 51270), (919, 51246), (939, 51192), (946, 51180), (953, 51159), (992, 51090), (1013, 51030), (1022, 51012), (1036, 50979), (1040, 50967), (1042, 50952), (1043, 50949), (1047, 50937), (1059, 50913), (1060, 50910), (1082, 50862), (1083, 50859), (1093, 50838), (1100, 50817),

Gene: Bruiser_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Bruiser_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Bruns_43 Start: 34261, Stop: 32435, Start Num: 228
Candidate Starts for Bruns_43:
(Start: 228 @34261 has 960 MA's), (366, 34048), (373, 34033), (410, 33955), (418, 33934), (424, 33928), (430, 33919), (479, 33802), (490, 33775), (570, 33682), (576, 33667), (583, 33646), (590, 33634), (621, 33583), (622, 33580), (659, 33514), (680, 33484), (690, 33454), (709, 33409), (729, 33370), (803, 33190), (821, 33142), (836, 33103), (855, 33037), (871, 32998), (895, 32977), (900, 32956), (906, 32938), (935, 32872), (1009, 32722), (1010, 32719), (1018, 32683), (1032, 32659), (1035, 32650), (1039, 32638), (1066, 32563), (1079, 32542),

Gene: Bryce_36 Start: 28088, Stop: 26304, Start Num: 228
Candidate Starts for Bryce_36:
(Start: 228 @28088 has 960 MA's), (379, 27854), (396, 27824), (398, 27815), (399, 27812), (415, 27767), (424, 27755), (448, 27704), (490, 27602), (498, 27581), (570, 27509), (590, 27461), (626, 27398), (643, 27371), (696, 27266), (709, 27239), (729, 27200), (803, 27020), (821, 26972), (855, 26867), (856, 26864), (895, 26807), (900, 26786), (951, 26663), (990, 26594), (1009, 26552), (1013, 26528), (1042, 26450), (1066, 26393), (1073, 26381), (1100, 26324),

Gene: BubbaBear_41 Start: 29478, Stop: 31352, Start Num: 217
Candidate Starts for BubbaBear_41:
(Start: 217 @29478 has 68 MA's), (Start: 273 @29547 has 1 MA's), (Start: 285 @29568 has 1 MA's), (430, 29814), (436, 29829), (448, 29856), (626, 30150), (741, 30384), (784, 30507), (803, 30567), (806, 30573), (823, 30618), (830, 30633), (833, 30648), (845, 30684), (855, 30720), (898, 30813), (936, 30906), (973, 30984), (1009, 31056), (1018, 31095), (1038, 31137), (1041, 31155), (1066, 31215), (1079, 31236),

Gene: BubbleTrouble_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for BubbleTrouble_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Buckaroo_44 Start: 31574, Stop: 29748, Start Num: 228
Candidate Starts for Buckaroo_44:
(Start: 228 @31574 has 960 MA's), (Start: 241 @31553 has 3 MA's), (263, 31523), (278, 31493), (384, 31331), (394, 31313), (424, 31241), (430, 31232), (480, 31112), (490, 31088), (570, 30995), (592, 30947), (607, 30926), (626, 30887), (696, 30755), (707, 30734), (729, 30689), (733, 30677), (798, 30524), (803, 30503), (847, 30380), (855, 30350), (871, 30311), (900, 30245), (901, 30242), (906, 30227), (919, 30203), (929, 30179), (1013, 29972), (1066, 29837), (1073, 29825), (1079, 29816),

Gene: Buckeye_61 Start: 54843, Stop: 52984, Start Num: 190
Candidate Starts for Buckeye_61:

(Start: 173 @54867 has 3 MA's), (Start: 190 @54843 has 336 MA's), (Start: 222 @54819 has 3 MA's), (Start: 232 @54813 has 2 MA's), (261, 54771), (274, 54750), (336, 54636), (339, 54630), (355, 54600), (390, 54540), (398, 54519), (416, 54465), (429, 54453), (436, 54435), (440, 54423), (487, 54318), (552, 54261), (569, 54225), (573, 54213), (585, 54186), (601, 54159), (611, 54141), (622, 54123), (643, 54084), (648, 54075), (649, 54072), (761, 53814), (796, 53712), (804, 53679), (812, 53658), (848, 53565), (851, 53556), (877, 53493), (900, 53457), (901, 53454), (906, 53439), (939, 53361), (946, 53349), (953, 53328), (976, 53289), (1013, 53199), (1022, 53181), (1024, 53175), (1032, 53160), (1040, 53136), (1042, 53121), (1043, 53118), (1047, 53106), (1059, 53082), (1082, 53034), (1093, 53010),

Gene: Bud_44 Start: 30338, Stop: 28551, Start Num: 228
Candidate Starts for Bud_44:
(Start: 228 @30338 has 960 MA's), (360, 30134), (399, 30062), (410, 30032), (424, 30005), (572, 29753), (595, 29702), (643, 29621), (668, 29576), (707, 29492), (733, 29435), (766, 29393), (778, 29348), (803, 29267), (823, 29216), (836, 29180), (855, 29114), (895, 29054), (938, 28940), (949, 28916), (954, 28898), (992, 28835), (1007, 28808), (1009, 28799), (1013, 28775), (1066, 28640), (1073, 28628), (1079, 28619),

Gene: Bugatti_46 Start: 31555, Stop: 29717, Start Num: 228
Candidate Starts for Bugatti_46:
(Start: 228 @31555 has 960 MA's), (263, 31504), (307, 31438), (360, 31351), (396, 31291), (399, 31279), (424, 31222), (430, 31213), (480, 31093), (490, 31069), (570, 30973), (592, 30925), (626, 30865), (663, 30802), (696, 30733), (707, 30712), (744, 30640), (767, 30598), (778, 30556), (803, 30475), (821, 30427), (847, 30352), (855, 30322), (869, 30292), (901, 30211), (919, 30172), (929, 30148), (935, 30130), (992, 30001), (1013, 29941), (1066, 29806), (1073, 29794), (1079, 29785),

Gene: Bugsy_46 Start: 31852, Stop: 30065, Start Num: 228
Candidate Starts for Bugsy_46:
(Start: 228 @31852 has 960 MA's), (360, 31648), (362, 31645), (366, 31639), (384, 31609), (399, 31576), (400, 31573), (410, 31546), (424, 31519), (448, 31468), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (643, 31135), (686, 31054), (707, 31006), (778, 30862), (803, 30781), (823, 30730), (835, 30697), (855, 30628), (871, 30589), (895, 30568), (900, 30547), (904, 30535), (990, 30355), (992, 30349), (1009, 30313), (1013, 30289), (1042, 30211), (1066, 30154), (1073, 30142),

Gene: Buldak_39 Start: 28039, Stop: 29922, Start Num: 219
Candidate Starts for Buldak_39:
(117, 27883), (Start: 219 @28039 has 3 MA's), (239, 28057), (Start: 273 @28108 has 1 MA's), (Start: 285 @28129 has 1 MA's), (307, 28159), (360, 28246), (399, 28309), (410, 28339), (418, 28360), (430, 28375), (435, 28387), (601, 28669), (626, 28720), (637, 28741), (803, 29137), (806, 29143), (836, 29224), (845, 29254), (848, 29263), (855, 29290), (898, 29383), (935, 29473), (973, 29554), (976, 29560), (1002, 29605), (1013, 29650), (1024, 29674), (1038, 29707), (1040, 29713), (1041, 29725), (1042, 29728), (1066, 29785), (1075, 29800), (1079, 29806), (1090, 29830),

Gene: Bumblebee11_43 Start: 31522, Stop: 29693, Start Num: 228
Candidate Starts for Bumblebee11_43:
(Start: 228 @31522 has 960 MA's), (263, 31471), (278, 31441), (384, 31279), (394, 31261), (399, 31246), (424, 31189), (430, 31180), (480, 31060), (490, 31036), (544, 30994), (570, 30943), (592, 30895), (607, 30874), (626, 30835), (654, 30790), (657, 30784), (696, 30703), (707, 30682), (729, 30637), (798, 30472), (803, 30451), (855, 30298), (871, 30259), (901, 30187), (906, 30172), (919, 30148), (926, 30130), (929, 30124), (931, 30118), (1013, 29917), (1066, 29782), (1073, 29770), (1079, 29761),

Gene: Burger_43 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Burger_43:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Burr_60 Start: 54018, Stop: 52159, Start Num: 190
Candidate Starts for Burr_60:
(Start: 173 @54042 has 3 MA's), (Start: 190 @54018 has 336 MA's), (Start: 222 @53994 has 3 MA's), (Start: 232 @53988 has 2 MA's), (261, 53946), (274, 53925), (336, 53811), (339, 53805), (355, 53775), (390, 53715), (398, 53694), (416, 53640), (429, 53628), (436, 53610), (440, 53598), (487, 53493), (552, 53436), (569, 53400), (573, 53388), (585, 53361), (611, 53316), (622, 53298), (643, 53259), (648, 53250), (649, 53247), (796, 52887), (804, 52854), (812, 52833), (848, 52740), (851, 52731), (877, 52668), (900, 52632), (901, 52629), (906, 52614), (939, 52536), (946, 52524), (953, 52503), (976, 52464), (1013, 52374), (1022, 52356), (1024, 52350), (1032, 52335), (1040, 52311), (1042, 52296), (1043, 52293), (1047, 52281), (1059, 52257), (1082, 52209), (1093, 52185),

Gene: Burritobowl_42 Start: 29479, Stop: 31353, Start Num: 217
Candidate Starts for Burritobowl_42:
(Start: 217 @29479 has 68 MA's), (Start: 273 @29548 has 1 MA's), (Start: 285 @29569 has 1 MA's), (430, 29815), (436, 29830), (448, 29857), (626, 30151), (696, 30286), (741, 30385), (784, 30508), (803, 30568), (806, 30574), (823, 30619), (830, 30634), (833, 30649), (845, 30685), (855, 30721), (898, 30814), (973, 30985), (1009, 31057), (1018, 31096), (1038, 31138), (1041, 31156), (1058, 31192), (1066, 31216), (1079, 31237),

Gene: Burro_10 Start: 7919, Stop: 5745, Start Num: 145
Candidate Starts for Burro_10:
(Start: 145 @7919 has 7 MA's), (Start: 162 @7898 has 1 MA's), (164, 7895), (167, 7892), (181, 7874), (258, 7781), (261, 7775), (328, 7685), (347, 7652), (359, 7631), (373, 7604), (422, 7481), (460, 7379), (499, 7295), (508, 7274), (511, 7253), (515, 7238), (516, 7229), (551, 7109), (612, 7010), (647, 6962), (692, 6863), (711, 6818), (730, 6779), (741, 6752), (761, 6707), (791, 6614), (802, 6572), (842, 6458), (847, 6440), (851, 6428), (857, 6401), (862, 6368), (905, 6224), (913, 6209), (916, 6203), (930, 6176), (931, 6173), (934, 6164), (940, 6146), (991, 6050), (1009, 6011), (1010, 6008), (1011, 5999), (1018, 5972), (1021, 5963), (1034, 5933), (1043, 5897), (1064, 5843), (1066, 5834), (1073, 5822), (1088, 5783),

Gene: Burton_44 Start: 34084, Stop: 32258, Start Num: 228
Candidate Starts for Burton_44:
(Start: 228 @34084 has 960 MA's), (366, 33871), (373, 33856), (399, 33808), (410, 33778), (418, 33757), (424, 33751), (430, 33742), (479, 33625), (490, 33598), (570, 33505), (576, 33490), (590, 33457), (621, 33406), (622, 33403), (659, 33337), (680, 33307), (690, 33277), (709, 33232), (729, 33193), (803, 33013), (821, 32965), (836, 32926), (855, 32860), (871, 32821), (895, 32800), (900, 32779), (906, 32761), (935, 32695), (1009, 32545), (1010, 32542), (1018, 32506), (1032, 32482), (1035, 32473), (1039, 32461), (1066, 32386), (1079, 32365),

Gene: Bustleton_37 Start: 28493, Stop: 26643, Start Num: 297
Candidate Starts for Bustleton_37:
(Start: 297 @28493 has 21 MA's), (360, 28370), (380, 28337), (431, 28226), (439, 28205), (442, 28199), (460, 28148), (560, 27992), (582, 27938), (585, 27932), (586, 27929), (590, 27917), (607, 27887), (636, 27830), (706, 27683), (768, 27536), (847, 27326), (851, 27314), (855, 27296), (873, 27254), (879, 27239), (897, 27203), (908, 27167), (989, 26978), (992, 26969), (1010, 26909), (1013,

26885), (1020, 26864), (1025, 26852), (1068, 26741),

Gene: Buttons_43 Start: 33067, Stop: 31241, Start Num: 228
Candidate Starts for Buttons_43:
(Start: 228 @33067 has 960 MA's), (366, 32854), (396, 32803), (410, 32761), (418, 32740), (424, 32734), (430, 32725), (479, 32608), (490, 32581), (570, 32488), (576, 32473), (621, 32389), (622, 32386), (659, 32320), (680, 32290), (690, 32260), (709, 32215), (729, 32176), (803, 31996), (821, 31948), (836, 31909), (855, 31843), (871, 31804), (895, 31783), (900, 31762), (906, 31744), (935, 31678), (1009, 31528), (1010, 31525), (1018, 31489), (1032, 31465), (1035, 31456), (1039, 31444), (1066, 31369), (1079, 31348),

Gene: BuzzBuzz_46 Start: 31884, Stop: 30070, Start Num: 228
Candidate Starts for BuzzBuzz_46:
(Start: 228 @31884 has 960 MA's), (257, 31845), (263, 31833), (360, 31680), (369, 31665), (399, 31608), (424, 31551), (430, 31542), (448, 31500), (465, 31449), (490, 31398), (552, 31344), (570, 31305), (590, 31257), (607, 31233), (626, 31194), (643, 31167), (659, 31137), (703, 31044), (709, 31032), (732, 30984), (742, 30969), (803, 30813), (823, 30762), (835, 30729), (836, 30726), (855, 30660), (871, 30621), (901, 30549), (919, 30510), (929, 30486), (935, 30468), (949, 30435), (992, 30354), (1013, 30294), (1045, 30207), (1066, 30159), (1073, 30147), (1079, 30138), (1082, 30135),

Gene: Bxb1_41 Start: 34132, Stop: 32306, Start Num: 228
Candidate Starts for Bxb1_41:
(Start: 228 @34132 has 960 MA's), (342, 33961), (366, 33919), (373, 33904), (399, 33856), (410, 33826), (418, 33805), (424, 33799), (430, 33790), (479, 33673), (490, 33646), (570, 33553), (576, 33538), (583, 33517), (590, 33505), (621, 33454), (622, 33451), (654, 33397), (659, 33385), (680, 33355), (690, 33325), (709, 33280), (729, 33241), (803, 33061), (815, 33031), (821, 33013), (836, 32974), (855, 32908), (900, 32827), (901, 32824), (935, 32743), (1009, 32593), (1010, 32590), (1018, 32554), (1032, 32530), (1035, 32521), (1039, 32509), (1045, 32482), (1066, 32434), (1079, 32413),

Gene: Bxz2_44 Start: 31891, Stop: 30077, Start Num: 228
Candidate Starts for Bxz2_44:
(Start: 228 @31891 has 960 MA's), (257, 31852), (263, 31840), (360, 31687), (369, 31672), (399, 31615), (424, 31558), (430, 31549), (448, 31507), (465, 31456), (490, 31405), (552, 31351), (570, 31312), (590, 31264), (607, 31240), (626, 31201), (643, 31174), (659, 31144), (703, 31051), (709, 31039), (732, 30991), (742, 30976), (803, 30820), (823, 30769), (835, 30736), (836, 30733), (855, 30667), (871, 30628), (901, 30556), (919, 30517), (929, 30493), (935, 30475), (949, 30442), (1013, 30301), (1045, 30214), (1066, 30166), (1073, 30154), (1079, 30145), (1082, 30142),

Gene: Byron23_39 Start: 28933, Stop: 27068, Start Num: 301
Candidate Starts for Byron23_39:
(Start: 241 @29020 has 3 MA's), (Start: 243 @29017 has 1 MA's), (Start: 301 @28933 has 153 MA's), (Start: 305 @28924 has 5 MA's), (353, 28819), (360, 28810), (378, 28780), (380, 28777), (435, 28657), (439, 28645), (442, 28639), (483, 28534), (494, 28507), (582, 28366), (585, 28360), (586, 28357), (590, 28345), (606, 28318), (607, 28315), (614, 28300), (618, 28294), (621, 28288), (638, 28255), (726, 28066), (847, 27751), (850, 27742), (851, 27739), (855, 27721), (873, 27679), (877, 27673), (879, 27664), (888, 27649), (908, 27592), (974, 27433), (989, 27403), (992, 27394), (1010, 27334), (1013, 27310), (1028, 27271), (1040, 27238), (1044, 27226), (1068, 27166),

Gene: C3_43 Start: 31569, Stop: 29770, Start Num: 228
Candidate Starts for C3_43:
(Start: 228 @31569 has 960 MA's), (360, 31365), (399, 31290), (400, 31287), (410, 31260), (415, 31245), (424, 31233), (448, 31182), (490, 31080), (570, 30987), (573, 30978), (590, 30939), (595, 30930), (643, 30849), (660, 30816), (680, 30789), (729, 30675), (742, 30651), (803, 30486), (821,

30438), (836, 30399), (847, 30363), (855, 30333), (871, 30294), (895, 30273), (935, 30168), (949, 30135), (982, 30072), (1009, 30018), (1013, 29994), (1066, 29859), (1073, 29847), (1079, 29838),

Gene: CRB1_46 Start: 31778, Stop: 29991, Start Num: 228
Candidate Starts for CRB1_46:
(Start: 228 @31778 has 960 MA's), (360, 31574), (362, 31571), (366, 31565), (375, 31550), (384, 31535), (399, 31502), (400, 31499), (410, 31472), (424, 31445), (435, 31424), (448, 31394), (490, 31292), (570, 31199), (590, 31151), (595, 31142), (607, 31127), (643, 31061), (660, 31028), (686, 30980), (707, 30932), (709, 30926), (742, 30863), (778, 30788), (803, 30707), (835, 30623), (836, 30620), (855, 30554), (871, 30515), (895, 30494), (924, 30419), (931, 30401), (935, 30389), (949, 30356), (982, 30293), (992, 30275), (1009, 30239), (1013, 30215), (1038, 30158), (1066, 30080), (1073, 30068), (1079, 30059),

Gene: CRB2_57 Start: 55662, Stop: 53833, Start Num: 190
Candidate Starts for CRB2_57:
(Start: 190 @55662 has 336 MA's), (Start: 232 @55635 has 2 MA's), (249, 55608), (278, 55563), (292, 55554), (307, 55536), (355, 55452), (362, 55443), (406, 55344), (429, 55305), (439, 55281), (487, 55173), (552, 55116), (569, 55080), (573, 55068), (583, 55044), (585, 55041), (590, 55032), (648, 54924), (649, 54921), (651, 54918), (658, 54903), (664, 54891), (685, 54855), (750, 54690), (775, 54624), (776, 54621), (780, 54603), (787, 54585), (796, 54561), (797, 54555), (804, 54528), (846, 54420), (848, 54414), (851, 54405), (900, 54306), (901, 54303), (906, 54288), (939, 54210), (946, 54198), (953, 54177), (960, 54159), (981, 54129), (1002, 54093), (1013, 54048), (1022, 54030), (1024, 54024), (1040, 53985), (1041, 53973), (1042, 53970), (1059, 53931), (1067, 53907), (1082, 53883), (1093, 53859),

Gene: CactusRose_42 Start: 33957, Stop: 32131, Start Num: 228
Candidate Starts for CactusRose_42:
(Start: 228 @33957 has 960 MA's), (366, 33744), (373, 33729), (399, 33681), (410, 33651), (418, 33630), (424, 33624), (430, 33615), (479, 33498), (490, 33471), (570, 33378), (576, 33363), (590, 33330), (621, 33279), (622, 33276), (659, 33210), (680, 33180), (690, 33150), (709, 33105), (729, 33066), (803, 32886), (821, 32838), (836, 32799), (855, 32733), (871, 32694), (895, 32673), (900, 32652), (906, 32634), (935, 32568), (1009, 32418), (1010, 32415), (1018, 32379), (1032, 32355), (1035, 32346), (1039, 32334), (1066, 32259), (1079, 32238),

Gene: Caelakin_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Caelakin_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: CaiB_54 Start: 48539, Stop: 46722, Start Num: 225
Candidate Starts for CaiB_54:
(150, 48632), (Start: 163 @48611 has 29 MA's), (Start: 225 @48539 has 16 MA's), (Start: 232 @48530 has 2 MA's), (249, 48503), (261, 48488), (274, 48467), (278, 48458), (362, 48320), (381, 48284), (487, 48056), (552, 47999), (569, 47963), (573, 47951), (579, 47939), (583, 47927), (635, 47834), (643, 47822), (649, 47810), (658, 47792), (727, 47636), (775, 47519), (797, 47450), (804, 47423), (846, 47315), (848, 47309), (851, 47300), (897, 47210), (900, 47201), (901, 47198), (906, 47183), (939, 47105), (946, 47093), (948, 47087), (953, 47072), (981, 47024), (1013, 46943), (1024, 46919), (1040, 46880), (1042, 46865), (1059, 46820), (1093, 46748),

Gene: Caitlin_42 Start: 30535, Stop: 28691, Start Num: 228

Candidate Starts for Caitlin_42:
(119, 30700), (Start: 228 @30535 has 960 MA's), (263, 30484), (343, 30361), (360, 30331), (384, 30292), (399, 30259), (410, 30229), (418, 30208), (424, 30202), (430, 30193), (465, 30100), (490, 30049), (570, 29953), (580, 29926), (587, 29908), (590, 29905), (595, 29896), (626, 29842), (643, 29815), (670, 29767), (696, 29710), (709, 29683), (733, 29632), (744, 29617), (798, 29470), (803, 29449), (815, 29419), (821, 29401), (823, 29398), (830, 29383), (836, 29362), (840, 29353), (847, 29326), (851, 29314), (855, 29296), (900, 29215), (904, 29203), (929, 29149), (942, 29113), (955, 29077), (977, 29044), (990, 29023), (992, 29017), (1010, 28978), (1013, 28957), (1022, 28939), (1066, 28822), (1073, 28810),

Gene: Calamitous_57 Start: 52488, Stop: 50659, Start Num: 190
Candidate Starts for Calamitous_57:
(Start: 190 @52488 has 336 MA's), (Start: 232 @52461 has 2 MA's), (Start: 255 @52431 has 8 MA's), (261, 52419), (Start: 276 @52392 has 2 MA's), (278, 52389), (284, 52380), (307, 52362), (362, 52266), (390, 52215), (399, 52191), (467, 52029), (476, 52014), (482, 52005), (487, 51993), (552, 51936), (569, 51900), (573, 51888), (583, 51864), (630, 51780), (648, 51750), (649, 51747), (664, 51717), (727, 51573), (755, 51507), (775, 51456), (780, 51435), (787, 51417), (804, 51360), (831, 51303), (840, 51276), (848, 51246), (851, 51237), (875, 51171), (897, 51144), (900, 51135), (906, 51117), (919, 51093), (939, 51039), (946, 51027), (953, 51006), (992, 50937), (1013, 50877), (1022, 50859), (1036, 50826), (1040, 50814), (1042, 50799), (1043, 50796), (1047, 50784), (1059, 50760), (1060, 50757), (1082, 50709), (1083, 50706), (1093, 50685), (1100, 50664),

Gene: Calix_38 Start: 28615, Stop: 26750, Start Num: 301
Candidate Starts for Calix_38:
(Start: 241 @28702 has 3 MA's), (Start: 301 @28615 has 153 MA's), (Start: 305 @28606 has 5 MA's), (353, 28501), (360, 28492), (378, 28462), (380, 28459), (435, 28339), (439, 28327), (442, 28321), (483, 28216), (494, 28189), (582, 28048), (585, 28042), (586, 28039), (590, 28027), (606, 28000), (607, 27997), (614, 27982), (618, 27976), (621, 27970), (638, 27937), (701, 27808), (726, 27748), (847, 27433), (850, 27424), (851, 27421), (855, 27403), (873, 27361), (877, 27355), (888, 27331), (908, 27274), (974, 27115), (989, 27085), (992, 27076), (1010, 27016), (1013, 26992), (1028, 26953), (1040, 26920), (1044, 26908), (1068, 26848),

Gene: CallinAllBarbz_41 Start: 29407, Stop: 31281, Start Num: 228
Candidate Starts for CallinAllBarbz_41:
(Start: 228 @29407 has 960 MA's), (239, 29425), (383, 29638), (390, 29650), (400, 29677), (410, 29704), (418, 29725), (435, 29752), (572, 30001), (626, 30109), (633, 30124), (686, 30214), (707, 30262), (803, 30520), (815, 30550), (845, 30637), (847, 30643), (853, 30664), (945, 30877), (977, 30946), (981, 30952), (1013, 31033), (1024, 31057), (1035, 31081), (1043, 31114), (1058, 31144), (1066, 31168), (1071, 31177), (1084, 31198),

Gene: Calvinny_48 Start: 31753, Stop: 29939, Start Num: 228
Candidate Starts for Calvinny_48:
(Start: 228 @31753 has 960 MA's), (257, 31714), (263, 31702), (360, 31549), (369, 31534), (399, 31477), (424, 31420), (430, 31411), (448, 31369), (465, 31318), (490, 31267), (570, 31174), (590, 31126), (607, 31102), (626, 31063), (643, 31036), (659, 31006), (703, 30913), (709, 30901), (732, 30853), (742, 30838), (803, 30682), (823, 30631), (835, 30598), (836, 30595), (855, 30529), (871, 30490), (901, 30418), (919, 30379), (929, 30355), (935, 30337), (949, 30304), (992, 30223), (1013, 30163), (1022, 30145), (1042, 30085), (1045, 30076), (1066, 30028), (1073, 30016), (1079, 30007),

Gene: CamL_60 Start: 54350, Stop: 52491, Start Num: 190
Candidate Starts for CamL_60:
(Start: 173 @54374 has 3 MA's), (Start: 190 @54350 has 336 MA's), (Start: 222 @54326 has 3 MA's), (Start: 232 @54320 has 2 MA's), (261, 54278), (274, 54257), (336, 54143), (339, 54137), (355, 54107),

(390, 54047), (398, 54026), (416, 53972), (429, 53960), (436, 53942), (440, 53930), (487, 53825), (552, 53768), (569, 53732), (573, 53720), (585, 53693), (611, 53648), (643, 53591), (648, 53582), (649, 53579), (796, 53219), (804, 53186), (812, 53165), (848, 53072), (851, 53063), (877, 53000), (900, 52964), (901, 52961), (906, 52946), (939, 52868), (946, 52856), (953, 52835), (976, 52796), (1013, 52706), (1022, 52688), (1024, 52682), (1032, 52667), (1040, 52643), (1042, 52628), (1043, 52625), (1047, 52613), (1059, 52589), (1082, 52541), (1093, 52517),

Gene: CampRoach_62 Start: 54448, Stop: 52589, Start Num: 190
Candidate Starts for CampRoach_62:
(Start: 173 @54472 has 3 MA's), (Start: 190 @54448 has 336 MA's), (Start: 222 @54424 has 3 MA's), (Start: 232 @54418 has 2 MA's), (261, 54376), (274, 54355), (336, 54241), (339, 54235), (355, 54205), (390, 54145), (398, 54124), (416, 54070), (429, 54058), (436, 54040), (440, 54028), (487, 53923), (552, 53866), (569, 53830), (573, 53818), (585, 53791), (601, 53764), (611, 53746), (622, 53728), (643, 53689), (648, 53680), (649, 53677), (651, 53674), (796, 53317), (804, 53284), (812, 53263), (848, 53170), (851, 53161), (877, 53098), (900, 53062), (901, 53059), (906, 53044), (939, 52966), (946, 52954), (953, 52933), (976, 52894), (1013, 52804), (1022, 52786), (1024, 52780), (1032, 52765), (1040, 52741), (1042, 52726), (1043, 52723), (1047, 52711), (1059, 52687), (1082, 52639), (1093, 52615),

Gene: Camperdownii_43 Start: 31243, Stop: 29417, Start Num: 228
Candidate Starts for Camperdownii_43:
(Start: 228 @31243 has 960 MA's), (Start: 241 @31222 has 3 MA's), (263, 31192), (278, 31162), (384, 31000), (394, 30982), (424, 30910), (430, 30901), (480, 30781), (490, 30757), (570, 30664), (592, 30616), (607, 30595), (626, 30556), (696, 30424), (707, 30403), (729, 30358), (733, 30346), (798, 30193), (803, 30172), (847, 30049), (855, 30019), (871, 29980), (900, 29914), (901, 29911), (906, 29896), (919, 29872), (929, 29848), (1013, 29641), (1066, 29506), (1073, 29494), (1079, 29485),

Gene: CanFranMach_44 Start: 29917, Stop: 31809, Start Num: 217
Candidate Starts for CanFranMach_44:
(119, 29761), (174, 29854), (Start: 217 @29917 has 68 MA's), (Start: 273 @29986 has 1 MA's), (414, 30229), (430, 30253), (435, 30265), (436, 30268), (626, 30589), (741, 30841), (784, 30964), (803, 31024), (806, 31030), (823, 31075), (830, 31090), (833, 31105), (845, 31141), (855, 31177), (898, 31270), (973, 31441), (1009, 31513), (1013, 31537), (1018, 31552), (1038, 31594), (1066, 31672), (1079, 31693), (1088, 31714),

Gene: Candra_45 Start: 29663, Stop: 27822, Start Num: 228
Candidate Starts for Candra_45:
(Start: 228 @29663 has 960 MA's), (360, 29459), (399, 29384), (400, 29381), (410, 29354), (415, 29339), (424, 29327), (448, 29276), (485, 29186), (490, 29174), (570, 29081), (585, 29042), (595, 29024), (607, 29009), (643, 28943), (660, 28910), (663, 28907), (710, 28805), (742, 28745), (778, 28661), (803, 28580), (835, 28496), (836, 28493), (840, 28484), (847, 28457), (855, 28427), (895, 28367), (906, 28328), (1009, 28112), (1010, 28109), (1013, 28088), (1066, 27953), (1073, 27941), (1079, 27932), (1082, 27929), (1115, 27836),

Gene: Cannibal_60 Start: 54292, Stop: 52433, Start Num: 190
Candidate Starts for Cannibal_60:
(Start: 173 @54316 has 3 MA's), (Start: 190 @54292 has 336 MA's), (Start: 222 @54268 has 3 MA's), (Start: 232 @54262 has 2 MA's), (261, 54220), (274, 54199), (336, 54085), (339, 54079), (355, 54049), (390, 53989), (398, 53968), (416, 53914), (429, 53902), (436, 53884), (440, 53872), (487, 53767), (552, 53710), (569, 53674), (573, 53662), (585, 53635), (611, 53590), (643, 53533), (648, 53524), (649, 53521), (796, 53161), (804, 53128), (812, 53107), (848, 53014), (851, 53005), (877, 52942), (900, 52906), (901, 52903), (906, 52888), (939, 52810), (946, 52798), (953, 52777), (976, 52738), (1013, 52648), (1022, 52630), (1024, 52624), (1032, 52609), (1040, 52585), (1042, 52570), (1043,

52567), (1047, 52555), (1059, 52531), (1082, 52483), (1093, 52459),

Gene: Cappuccino_38 Start: 27602, Stop: 29584, Start Num: 227
Candidate Starts for Cappuccino_38:
(Start: 227 @27602 has 33 MA's), (343, 27776), (386, 27839), (400, 27872), (435, 27947), (544, 28175), (626, 28349), (707, 28505), (768, 28643), (795, 28730), (803, 28763), (815, 28793), (836, 28850), (855, 28916), (898, 29009), (1013, 29276), (1024, 29300), (1066, 29411), (1114, 29519),

Gene: CaptainRex_37 Start: 26990, Stop: 25125, Start Num: 301
Candidate Starts for CaptainRex_37:
(Start: 301 @26990 has 153 MA's), (304, 26984), (349, 26885), (353, 26876), (369, 26852), (378, 26837), (382, 26831), (402, 26780), (404, 26777), (442, 26696), (502, 26546), (533, 26543), (574, 26444), (585, 26417), (586, 26414), (590, 26402), (607, 26372), (618, 26351), (636, 26315), (706, 26168), (751, 26066), (777, 25988), (847, 25808), (855, 25778), (878, 25724), (889, 25706), (908, 25649), (917, 25622), (933, 25580), (949, 25541), (989, 25460), (992, 25451), (1010, 25391), (1013, 25367), (1017, 25355), (1020, 25346), (1028, 25328), (1040, 25295), (1068, 25223),

Gene: Caraxes_45 Start: 30012, Stop: 28183, Start Num: 228
Candidate Starts for Caraxes_45:
(Start: 228 @30012 has 960 MA's), (360, 29808), (366, 29799), (384, 29769), (399, 29736), (400, 29733), (410, 29706), (424, 29679), (435, 29658), (490, 29526), (570, 29433), (590, 29385), (643, 29295), (670, 29247), (707, 29166), (803, 28941), (836, 28854), (847, 28818), (855, 28788), (871, 28749), (895, 28728), (900, 28707), (906, 28689), (949, 28590), (958, 28563), (982, 28527), (992, 28509), (1009, 28473), (1066, 28314), (1073, 28302), (1079, 28293), (1100, 28245), (1112, 28215),

Gene: CardboardBox_41 Start: 28660, Stop: 26870, Start Num: 214
Candidate Starts for CardboardBox_41:
(168, 28720), (188, 28696), (205, 28675), (Start: 214 @28660 has 2 MA's), (Start: 221 @28651 has 14 MA's), (299, 28528), (328, 28480), (411, 28342), (413, 28336), (439, 28288), (482, 28207), (483, 28201), (493, 28177), (570, 28108), (613, 28027), (626, 28000), (633, 27985), (672, 27922), (697, 27865), (709, 27841), (712, 27835), (729, 27799), (748, 27763), (783, 27691), (798, 27649), (806, 27622), (841, 27526), (848, 27502), (855, 27475), (871, 27436), (902, 27361), (932, 27292), (951, 27244), (958, 27223), (986, 27169), (991, 27154), (1014, 27088), (1038, 27031), (1042, 27010), (1043, 27007), (1049, 26989), (1059, 26974),

Gene: CarisSwetlik_41 Start: 29837, Stop: 27969, Start Num: 301
Candidate Starts for CarisSwetlik_41:
(185, 30002), (218, 29957), (Start: 241 @29924 has 3 MA's), (248, 29915), (Start: 301 @29837 has 153 MA's), (Start: 305 @29828 has 5 MA's), (378, 29684), (380, 29681), (431, 29570), (435, 29561), (439, 29549), (442, 29543), (483, 29438), (552, 29345), (582, 29270), (586, 29261), (590, 29249), (606, 29222), (607, 29219), (614, 29204), (618, 29198), (621, 29192), (701, 29030), (749, 28916), (847, 28655), (850, 28646), (851, 28643), (855, 28625), (873, 28583), (908, 28493), (917, 28466), (974, 28334), (992, 28295), (1010, 28235), (1013, 28211), (1028, 28172), (1040, 28139), (1044, 28127),

Gene: Carlyle_44 Start: 32803, Stop: 30974, Start Num: 228
Candidate Starts for Carlyle_44:
(Start: 228 @32803 has 960 MA's), (366, 32590), (373, 32575), (410, 32497), (418, 32476), (424, 32470), (430, 32461), (465, 32368), (479, 32344), (490, 32317), (570, 32224), (576, 32209), (590, 32176), (621, 32125), (622, 32122), (659, 32056), (680, 32026), (690, 31996), (709, 31951), (729, 31912), (803, 31732), (821, 31684), (840, 31636), (851, 31597), (855, 31579), (871, 31540), (895, 31519), (900, 31498), (905, 31483), (955, 31360), (1036, 31189), (1041, 31165), (1062, 31117), (1066, 31105), (1079, 31084), (1083, 31078), (1102, 31030), (1109, 31015),

Gene: Caron_50 Start: 32142, Stop: 34007, Start Num: 228
Candidate Starts for Caron_50:
(Start: 228 @32142 has 960 MA's), (303, 32250), (565, 32715), (623, 32838), (626, 32844), (707, 32997), (736, 33060), (803, 33255), (828, 33318), (843, 33366), (845, 33372), (856, 33411), (936, 33594), (1066, 33903), (1104, 33981), (1112, 34002),

Gene: Carostasia_37 Start: 28508, Stop: 26607, Start Num: 296
Candidate Starts for Carostasia_37:
(Start: 296 @28508 has 13 MA's), (360, 28385), (369, 28370), (378, 28355), (396, 28322), (398, 28313), (402, 28298), (415, 28262), (429, 28247), (439, 28220), (442, 28214), (460, 28163), (474, 28124), (502, 28064), (582, 27938), (586, 27929), (590, 27917), (607, 27887), (618, 27866), (636, 27830), (706, 27683), (726, 27638), (770, 27527), (833, 27332), (847, 27290), (855, 27260), (873, 27218), (889, 27188), (897, 27167), (908, 27131), (1010, 26873), (1013, 26849), (1025, 26816), (1028, 26810), (1068, 26705),

Gene: Carthage_59 Start: 53529, Stop: 51670, Start Num: 190
Candidate Starts for Carthage_59:
(33, 53925), (54, 53838), (57, 53823), (60, 53817), (65, 53802), (70, 53784), (Start: 173 @53553 has 3 MA's), (Start: 190 @53529 has 336 MA's), (Start: 222 @53505 has 3 MA's), (Start: 232 @53499 has 2 MA's), (261, 53457), (274, 53436), (336, 53322), (339, 53316), (355, 53286), (390, 53226), (398, 53205), (416, 53151), (429, 53139), (440, 53109), (487, 53004), (552, 52947), (569, 52911), (573, 52899), (585, 52872), (590, 52863), (611, 52827), (622, 52809), (643, 52770), (648, 52761), (649, 52758), (796, 52398), (804, 52365), (812, 52344), (848, 52251), (851, 52242), (877, 52179), (900, 52143), (901, 52140), (906, 52125), (939, 52047), (946, 52035), (953, 52014), (976, 51975), (1013, 51885), (1022, 51867), (1024, 51861), (1032, 51846), (1040, 51822), (1042, 51807), (1043, 51804), (1047, 51792), (1059, 51768), (1082, 51720), (1093, 51696),

Gene: CartmannCramer_44 Start: 36675, Stop: 34849, Start Num: 228
Candidate Starts for CartmannCramer_44:
(Start: 228 @36675 has 960 MA's), (366, 36462), (399, 36399), (410, 36369), (418, 36348), (424, 36342), (430, 36333), (479, 36216), (490, 36189), (570, 36096), (576, 36081), (590, 36048), (621, 35997), (622, 35994), (659, 35928), (680, 35898), (690, 35868), (709, 35823), (729, 35784), (803, 35604), (821, 35556), (836, 35517), (855, 35451), (871, 35412), (895, 35391), (900, 35370), (906, 35352), (935, 35286), (1009, 35136), (1010, 35133), (1018, 35097), (1032, 35073), (1039, 35052), (1066, 34977), (1079, 34956),

Gene: Casbah_58 Start: 53994, Stop: 52177, Start Num: 230
Candidate Starts for Casbah_58:
(110, 54177), (Start: 230 @53994 has 52 MA's), (249, 53964), (366, 53784), (435, 53631), (439, 53619), (452, 53589), (458, 53583), (487, 53520), (489, 53514), (552, 53463), (569, 53427), (590, 53379), (649, 53274), (694, 53178), (722, 53127), (775, 52983), (787, 52944), (797, 52914), (804, 52887), (810, 52875), (846, 52779), (848, 52773), (851, 52764), (854, 52752), (883, 52680), (900, 52650), (906, 52632), (912, 52623), (939, 52554), (946, 52542), (953, 52521), (992, 52452), (1002, 52437), (1010, 52413), (1013, 52392), (1022, 52374), (1024, 52368), (1038, 52335), (1040, 52329), (1043, 52311), (1047, 52299), (1054, 52287), (1059, 52275), (1078, 52233), (1093, 52203),

Gene: Casey_35 Start: 27722, Stop: 25905, Start Num: 298
Candidate Starts for Casey_35:
(Start: 298 @27722 has 15 MA's), (307, 27707), (439, 27431), (442, 27425), (545, 27290), (554, 27275), (585, 27197), (586, 27194), (590, 27182), (607, 27152), (636, 27095), (706, 26948), (777, 26768), (833, 26630), (850, 26579), (851, 26576), (855, 26558), (856, 26555), (873, 26516), (908, 26429), (917, 26402), (974, 26270), (1013, 26147), (1025, 26114), (1028, 26108), (1033, 26099),

(1068, 26003), (1072, 25997),

Gene: Cashington_40 Start: 28858, Stop: 30732, Start Num: 217
Candidate Starts for Cashington_40:
(Start: 215 @28855 has 12 MA's), (Start: 217 @28858 has 68 MA's), (Start: 273 @28927 has 1 MA's), (Start: 285 @28948 has 1 MA's), (360, 29065), (399, 29128), (430, 29194), (448, 29236), (626, 29530), (741, 29764), (784, 29887), (803, 29947), (806, 29953), (823, 29998), (830, 30013), (833, 30028), (845, 30064), (855, 30100), (898, 30193), (936, 30286), (973, 30364), (1009, 30436), (1018, 30475), (1038, 30517), (1041, 30535), (1066, 30595), (1079, 30616),

Gene: Casino_9 Start: 7956, Stop: 5776, Start Num: 145
Candidate Starts for Casino_9:
(Start: 145 @7956 has 7 MA's), (181, 7905), (205, 7875), (258, 7812), (322, 7728), (324, 7725), (359, 7662), (373, 7635), (388, 7608), (389, 7605), (422, 7512), (475, 7371), (477, 7368), (499, 7326), (508, 7305), (516, 7260), (532, 7200), (537, 7173), (551, 7140), (612, 7041), (634, 7014), (642, 7002), (692, 6894), (711, 6849), (730, 6810), (733, 6804), (761, 6738), (778, 6684), (802, 6603), (807, 6594), (847, 6471), (851, 6459), (857, 6432), (887, 6333), (892, 6309), (913, 6240), (916, 6234), (930, 6207), (934, 6195), (940, 6177), (991, 6081), (1010, 6039), (1011, 6030), (1043, 5928), (1064, 5874), (1066, 5865), (1073, 5853),

Gene: Caspiboi_61 Start: 54270, Stop: 52411, Start Num: 190
Candidate Starts for Caspiboi_61:
(Start: 173 @54294 has 3 MA's), (Start: 190 @54270 has 336 MA's), (Start: 222 @54246 has 3 MA's), (Start: 232 @54240 has 2 MA's), (261, 54198), (274, 54177), (336, 54063), (339, 54057), (355, 54027), (390, 53967), (398, 53946), (416, 53892), (429, 53880), (436, 53862), (440, 53850), (487, 53745), (552, 53688), (569, 53652), (573, 53640), (585, 53613), (611, 53568), (643, 53511), (648, 53502), (649, 53499), (761, 53241), (796, 53139), (804, 53106), (812, 53085), (848, 52992), (851, 52983), (877, 52920), (900, 52884), (901, 52881), (906, 52866), (939, 52788), (946, 52776), (953, 52755), (976, 52716), (1013, 52626), (1022, 52608), (1024, 52602), (1032, 52587), (1040, 52563), (1042, 52548), (1043, 52545), (1047, 52533), (1059, 52509), (1066, 52488), (1082, 52461), (1093, 52437), (1098, 52422),

Gene: Casserole_35 Start: 32865, Stop: 31120, Start Num: 260
Candidate Starts for Casserole_35:
(Start: 241 @32892 has 3 MA's), (Start: 260 @32865 has 6 MA's), (262, 32862), (Start: 277 @32829 has 1 MA's), (280, 32823), (337, 32730), (357, 32697), (374, 32670), (441, 32535), (536, 32406), (539, 32400), (556, 32376), (563, 32361), (573, 32334), (585, 32304), (626, 32223), (630, 32214), (664, 32154), (680, 32133), (735, 32019), (744, 32001), (872, 31623), (880, 31605), (921, 31539), (926, 31524), (1018, 31305), (1036, 31263), (1066, 31179),

Gene: Cassia_40 Start: 29351, Stop: 31216, Start Num: 228
Candidate Starts for Cassia_40:
(Start: 228 @29351 has 960 MA's), (261, 29399), (410, 29648), (462, 29768), (572, 29945), (576, 29954), (626, 30053), (633, 30068), (643, 30080), (707, 30206), (768, 30344), (803, 30464), (836, 30551), (855, 30617), (898, 30710), (1009, 30953), (1066, 31112), (1071, 31121),

Gene: Cassita_65 Start: 38135, Stop: 36300, Start Num: 294
Candidate Starts for Cassita_65:
(279, 38150), (Start: 294 @38135 has 13 MA's), (304, 38120), (346, 38051), (386, 37991), (398, 37964), (399, 37961), (410, 37928), (414, 37916), (420, 37907), (422, 37898), (503, 37733), (504, 37727), (538, 37634), (559, 37595), (576, 37556), (593, 37523), (600, 37511), (604, 37505), (625, 37469), (628, 37463), (644, 37436), (662, 37403), (679, 37376), (742, 37229), (772, 37172), (806, 37067), (820, 37019), (836, 36980), (840, 36971), (898, 36776), (917, 36749), (944, 36725), (963,

36686), (987, 36638), (995, 36614), (1018, 36530), (1032, 36500), (1038, 36482), (1041, 36464), (1042, 36461), (1058, 36428), (1059, 36425), (1066, 36404), (1084, 36374), (1095, 36350), (1099, 36335), (1103, 36326),

Gene: CatBus_45 Start: 35549, Stop: 33723, Start Num: 228
Candidate Starts for CatBus_45:
(Start: 228 @35549 has 960 MA's), (366, 35336), (373, 35321), (410, 35243), (418, 35222), (424, 35216), (430, 35207), (479, 35090), (490, 35063), (570, 34970), (576, 34955), (621, 34871), (622, 34868), (659, 34802), (690, 34742), (709, 34697), (729, 34658), (803, 34478), (821, 34430), (836, 34391), (855, 34325), (871, 34286), (895, 34265), (900, 34244), (906, 34226), (935, 34160), (1007, 34019), (1009, 34010), (1010, 34007), (1018, 33971), (1032, 33947), (1035, 33938), (1039, 33926), (1066, 33851), (1079, 33830),

Gene: Cat_43 Start: 31078, Stop: 29240, Start Num: 228
Candidate Starts for Cat_43:
(Start: 228 @31078 has 960 MA's), (263, 31027), (360, 30874), (366, 30865), (396, 30814), (399, 30802), (424, 30745), (430, 30736), (480, 30616), (485, 30604), (490, 30592), (570, 30496), (592, 30448), (626, 30388), (683, 30295), (696, 30256), (707, 30235), (744, 30163), (778, 30079), (803, 29998), (836, 29911), (847, 29875), (855, 29845), (869, 29815), (901, 29734), (919, 29695), (929, 29671), (935, 29653), (992, 29524), (1013, 29464), (1066, 29329), (1073, 29317), (1079, 29308),

Gene: Catalina_46 Start: 31484, Stop: 29691, Start Num: 228
Candidate Starts for Catalina_46:
(Start: 228 @31484 has 960 MA's), (235, 31475), (263, 31433), (342, 31313), (343, 31310), (370, 31262), (400, 31202), (411, 31172), (415, 31160), (424, 31148), (490, 30995), (570, 30902), (643, 30764), (659, 30734), (733, 30575), (742, 30563), (764, 30536), (798, 30428), (803, 30407), (851, 30272), (855, 30254), (900, 30173), (919, 30131), (949, 30056), (990, 29981), (1009, 29939), (1042, 29837), (1066, 29780), (1073, 29768), (1079, 29759),

Gene: Causa_86 Start: 64971, Stop: 63172, Start Num: 228
Candidate Starts for Causa_86:
(Start: 228 @64971 has 960 MA's), (249, 64938), (261, 64923), (268, 64911), (282, 64884), (307, 64866), (317, 64839), (378, 64746), (390, 64728), (397, 64710), (416, 64653), (447, 64602), (552, 64461), (566, 64434), (569, 64425), (627, 64311), (649, 64272), (664, 64242), (677, 64224), (722, 64110), (761, 64005), (768, 63990), (796, 63903), (804, 63870), (808, 63864), (846, 63762), (848, 63756), (851, 63747), (900, 63648), (901, 63645), (906, 63630), (915, 63615), (939, 63552), (946, 63540), (953, 63519), (1007, 63423), (1013, 63390), (1040, 63327), (1047, 63297), (1053, 63291), (1054, 63285), (1059, 63273), (1081, 63225), (1093, 63198), (1098, 63183), (1100, 63177),

Gene: Caviar_44 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for Caviar_44:
(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836), (1079, 29827),

Gene: Cece_99 Start: 83690, Stop: 81819, Start Num: 222
Candidate Starts for Cece_99:
(Start: 222 @83690 has 3 MA's), (346, 83480), (390, 83414), (398, 83393), (439, 83306), (442, 83300), (488, 83207), (493, 83192), (573, 83114), (613, 83030), (626, 83003), (637, 82982), (660, 82943), (680, 82916), (682, 82910), (729, 82805), (755, 82757), (767, 82736), (769, 82727), (803, 82616),

(830, 82550), (843, 82502), (869, 82418), (877, 82403), (902, 82334), (915, 82307), (919, 82298), (932, 82265), (1036, 82013), (1042, 81986), (1066, 81929),

Gene: Celaena_40 Start: 30338, Stop: 32209, Start Num: 217
Candidate Starts for Celaena_40:
(Start: 217 @30338 has 68 MA's), (Start: 273 @30407 has 1 MA's), (360, 30545), (430, 30674), (473, 30770), (626, 31010), (633, 31025), (686, 31118), (729, 31208), (803, 31424), (823, 31475), (830, 31490), (845, 31541), (848, 31550), (855, 31577), (898, 31670), (929, 31742), (973, 31841), (1009, 31913), (1013, 31937), (1038, 31994), (1058, 32048), (1066, 32072), (1079, 32093),

Gene: Celestialunch_42 Start: 30784, Stop: 28991, Start Num: 228
Candidate Starts for Celestialunch_42:
(Start: 228 @30784 has 960 MA's), (235, 30775), (360, 30580), (379, 30547), (384, 30538), (399, 30505), (424, 30448), (435, 30427), (490, 30295), (570, 30202), (587, 30157), (643, 30064), (659, 30034), (733, 29875), (764, 29836), (767, 29830), (803, 29707), (851, 29572), (855, 29554), (900, 29473), (949, 29356), (955, 29335), (1009, 29239), (1013, 29215), (1042, 29137), (1066, 29080), (1073, 29068), (1079, 29059),

Gene: Cen1621_44 Start: 29694, Stop: 31556, Start Num: 228
Candidate Starts for Cen1621_44:
(131, 29562), (143, 29580), (192, 29649), (199, 29658), (Start: 228 @29694 has 960 MA's), (303, 29802), (337, 29859), (360, 29898), (418, 30012), (590, 30330), (626, 30396), (627, 30399), (633, 30411), (643, 30423), (681, 30483), (707, 30549), (733, 30606), (757, 30657), (803, 30807), (855, 30960), (932, 31134), (935, 31143), (1041, 31395), (1062, 31443), (1066, 31455),

Gene: Centaur_45 Start: 31699, Stop: 29912, Start Num: 228
Candidate Starts for Centaur_45:
(Start: 228 @31699 has 960 MA's), (360, 31495), (362, 31492), (366, 31486), (384, 31456), (399, 31423), (400, 31420), (410, 31393), (424, 31366), (448, 31315), (490, 31213), (570, 31120), (590, 31072), (595, 31063), (607, 31048), (643, 30982), (686, 30901), (707, 30853), (778, 30709), (803, 30628), (823, 30577), (835, 30544), (855, 30475), (871, 30436), (895, 30415), (897, 30403), (900, 30394), (904, 30382), (990, 30202), (992, 30196), (1009, 30160), (1013, 30136), (1042, 30058), (1066, 30001), (1073, 29989),

Gene: CentreCat_45 Start: 31573, Stop: 29747, Start Num: 228
Candidate Starts for CentreCat_45:
(Start: 228 @31573 has 960 MA's), (Start: 241 @31552 has 3 MA's), (263, 31522), (278, 31492), (384, 31330), (394, 31312), (424, 31240), (430, 31231), (480, 31111), (490, 31087), (570, 30994), (592, 30946), (607, 30925), (626, 30886), (696, 30754), (707, 30733), (729, 30688), (733, 30676), (798, 30523), (803, 30502), (847, 30379), (855, 30349), (871, 30310), (900, 30244), (901, 30241), (906, 30226), (919, 30202), (929, 30178), (1013, 29971), (1066, 29836), (1073, 29824), (1079, 29815),

Gene: Cerulean_46 Start: 31993, Stop: 30167, Start Num: 228
Candidate Starts for Cerulean_46:
(Start: 228 @31993 has 960 MA's), (261, 31945), (360, 31789), (399, 31717), (424, 31660), (430, 31651), (480, 31531), (490, 31507), (570, 31414), (592, 31366), (607, 31345), (626, 31306), (654, 31261), (696, 31174), (701, 31165), (707, 31153), (729, 31108), (733, 31096), (798, 30943), (803, 30922), (847, 30799), (855, 30769), (871, 30730), (900, 30664), (901, 30661), (919, 30622), (929, 30598), (1013, 30391), (1066, 30256), (1073, 30244), (1079, 30235),

Gene: ChaChing_58 Start: 53696, Stop: 51879, Start Num: 230
Candidate Starts for ChaChing_58:

(110, 53879), (Start: 230 @53696 has 52 MA's), (249, 53666), (366, 53486), (435, 53333), (439, 53321), (452, 53291), (458, 53285), (487, 53222), (489, 53216), (552, 53165), (569, 53129), (590, 53081), (649, 52976), (694, 52880), (722, 52829), (775, 52685), (787, 52646), (797, 52616), (804, 52589), (810, 52577), (846, 52481), (848, 52475), (851, 52466), (854, 52454), (883, 52382), (900, 52352), (906, 52334), (912, 52325), (939, 52256), (946, 52244), (953, 52223), (992, 52154), (1002, 52139), (1010, 52115), (1013, 52094), (1024, 52070), (1040, 52031), (1043, 52013), (1047, 52001), (1054, 51989), (1059, 51977), (1078, 51935), (1093, 51905),

Gene: Chadwick_40 Start: 30056, Stop: 28191, Start Num: 228
Candidate Starts for Chadwick_40:
(Start: 195 @30089 has 3 MA's), (Start: 228 @30056 has 960 MA's), (304, 29945), (362, 29849), (399, 29780), (400, 29777), (410, 29750), (424, 29723), (430, 29714), (462, 29630), (465, 29621), (473, 29606), (490, 29570), (556, 29510), (570, 29474), (590, 29426), (606, 29405), (607, 29402), (637, 29342), (685, 29264), (703, 29216), (709, 29204), (732, 29156), (761, 29105), (803, 28970), (821, 28922), (830, 28904), (836, 28883), (840, 28874), (848, 28844), (855, 28817), (856, 28814), (900, 28736), (906, 28718), (929, 28670), (949, 28619), (977, 28565), (982, 28556), (992, 28538), (1022, 28460), (1066, 28343), (1073, 28331), (1115, 28226),

Gene: Chaelin_61 Start: 54580, Stop: 52721, Start Num: 190
Candidate Starts for Chaelin_61:
(Start: 173 @54604 has 3 MA's), (Start: 190 @54580 has 336 MA's), (Start: 222 @54556 has 3 MA's), (Start: 232 @54550 has 2 MA's), (261, 54508), (274, 54487), (336, 54373), (339, 54367), (355, 54337), (390, 54277), (398, 54256), (416, 54202), (429, 54190), (436, 54172), (440, 54160), (487, 54055), (552, 53998), (569, 53962), (573, 53950), (583, 53926), (590, 53914), (601, 53896), (611, 53878), (622, 53860), (643, 53821), (648, 53812), (649, 53809), (651, 53806), (796, 53449), (804, 53416), (812, 53395), (848, 53302), (851, 53293), (877, 53230), (900, 53194), (901, 53191), (906, 53176), (939, 53098), (946, 53086), (953, 53065), (976, 53026), (1013, 52936), (1022, 52918), (1024, 52912), (1032, 52897), (1040, 52873), (1042, 52858), (1043, 52855), (1047, 52843), (1059, 52819), (1082, 52771), (1093, 52747),

Gene: Chah_62 Start: 53995, Stop: 52136, Start Num: 190
Candidate Starts for Chah_62:
(Start: 173 @54019 has 3 MA's), (Start: 190 @53995 has 336 MA's), (Start: 222 @53971 has 3 MA's), (Start: 232 @53965 has 2 MA's), (261, 53923), (274, 53902), (336, 53788), (339, 53782), (355, 53752), (390, 53692), (398, 53671), (416, 53617), (429, 53605), (436, 53587), (440, 53575), (487, 53470), (552, 53413), (569, 53377), (573, 53365), (585, 53338), (601, 53311), (611, 53293), (622, 53275), (643, 53236), (648, 53227), (649, 53224), (761, 52966), (796, 52864), (804, 52831), (812, 52810), (848, 52717), (851, 52708), (877, 52645), (900, 52609), (901, 52606), (906, 52591), (939, 52513), (946, 52501), (953, 52480), (976, 52441), (1013, 52351), (1022, 52333), (1024, 52327), (1032, 52312), (1040, 52288), (1042, 52273), (1043, 52270), (1047, 52258), (1059, 52234), (1082, 52186), (1093, 52162),

Gene: Chako_38 Start: 28706, Stop: 26754, Start Num: 241
Candidate Starts for Chako_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Chalmers_57 Start: 54135, Stop: 52318, Start Num: 230

Candidate Starts for Chalmers_57:
(110, 54318), (Start: 230 @54135 has 52 MA's), (249, 54105), (366, 53925), (435, 53772), (439, 53760), (452, 53730), (458, 53724), (487, 53661), (489, 53655), (552, 53604), (566, 53577), (569, 53568), (590, 53520), (649, 53415), (694, 53319), (722, 53268), (775, 53124), (787, 53085), (797, 53055), (804, 53028), (810, 53016), (846, 52920), (848, 52914), (851, 52905), (854, 52893), (883, 52821), (900, 52791), (906, 52773), (912, 52764), (939, 52695), (946, 52683), (953, 52662), (992, 52593), (1002, 52578), (1010, 52554), (1013, 52533), (1022, 52515), (1024, 52509), (1038, 52476), (1040, 52470), (1043, 52452), (1047, 52440), (1054, 52428), (1059, 52416), (1078, 52374), (1093, 52344),

Gene: ChamoyPickle_42 Start: 29200, Stop: 27410, Start Num: 214
Candidate Starts for ChamoyPickle_42:
(168, 29260), (188, 29236), (205, 29215), (Start: 214 @29200 has 2 MA's), (Start: 221 @29191 has 14 MA's), (299, 29068), (328, 29020), (411, 28882), (413, 28876), (439, 28828), (482, 28747), (483, 28741), (493, 28717), (570, 28648), (613, 28567), (626, 28540), (633, 28525), (672, 28462), (697, 28405), (709, 28381), (712, 28375), (729, 28339), (748, 28303), (783, 28231), (798, 28189), (806, 28162), (841, 28066), (848, 28042), (855, 28015), (871, 27976), (902, 27901), (932, 27832), (951, 27784), (958, 27763), (986, 27709), (991, 27694), (1014, 27628), (1038, 27571), (1042, 27550), (1043, 27547), (1049, 27529), (1059, 27514),

Gene: ChampagnePapi_47 Start: 31992, Stop: 30166, Start Num: 228
Candidate Starts for ChampagnePapi_47:
(Start: 228 @31992 has 960 MA's), (261, 31944), (360, 31788), (399, 31716), (424, 31659), (430, 31650), (480, 31530), (490, 31506), (570, 31413), (592, 31365), (607, 31344), (626, 31305), (654, 31260), (696, 31173), (701, 31164), (707, 31152), (729, 31107), (733, 31095), (798, 30942), (803, 30921), (847, 30798), (855, 30768), (871, 30729), (900, 30663), (901, 30660), (919, 30621), (929, 30597), (1013, 30390), (1066, 30255), (1073, 30243), (1079, 30234),

Gene: Chamuel_38 Start: 28695, Stop: 26743, Start Num: 241
Candidate Starts for Chamuel_38:
(Start: 241 @28695 has 3 MA's), (Start: 301 @28608 has 153 MA's), (Start: 305 @28599 has 5 MA's), (353, 28494), (360, 28485), (378, 28455), (380, 28452), (435, 28332), (439, 28320), (442, 28314), (483, 28209), (494, 28182), (582, 28041), (585, 28035), (586, 28032), (590, 28020), (606, 27993), (607, 27990), (614, 27975), (618, 27969), (621, 27963), (638, 27930), (701, 27801), (726, 27741), (847, 27426), (850, 27417), (851, 27414), (855, 27396), (873, 27354), (877, 27348), (888, 27324), (908, 27267), (974, 27108), (989, 27078), (992, 27069), (1010, 27009), (1013, 26985), (1028, 26946), (1040, 26913), (1044, 26901), (1068, 26841),

Gene: Chanagan_42 Start: 33624, Stop: 31837, Start Num: 228
Candidate Starts for Chanagan_42:
(Start: 228 @33624 has 960 MA's), (366, 33411), (373, 33396), (399, 33348), (410, 33318), (418, 33297), (424, 33291), (430, 33282), (479, 33165), (490, 33138), (570, 33045), (576, 33030), (621, 32946), (622, 32943), (659, 32877), (680, 32847), (690, 32817), (709, 32772), (729, 32733), (803, 32553), (821, 32505), (836, 32466), (855, 32400), (897, 32328), (900, 32319), (935, 32235), (977, 32148), (1032, 32022), (1036, 32010), (1058, 31950), (1066, 31926), (1069, 31920),

Gene: Chandler_58 Start: 54464, Stop: 52647, Start Num: 230
Candidate Starts for Chandler_58:
(110, 54647), (Start: 230 @54464 has 52 MA's), (249, 54434), (366, 54254), (411, 54149), (435, 54101), (439, 54089), (452, 54059), (458, 54053), (487, 53990), (489, 53984), (552, 53933), (569, 53897), (590, 53849), (649, 53744), (694, 53648), (722, 53597), (775, 53453), (787, 53414), (797, 53384), (804, 53357), (810, 53345), (846, 53249), (848, 53243), (851, 53234), (854, 53222), (883, 53150), (900, 53120), (906, 53102), (912, 53093), (939, 53024), (946, 53012), (953, 52991), (992,

52922), (1002, 52907), (1010, 52883), (1013, 52862), (1022, 52844), (1024, 52838), (1038, 52805), (1040, 52799), (1043, 52781), (1047, 52769), (1054, 52757), (1059, 52745), (1078, 52703), (1093, 52673),

Gene: Changeling_45 Start: 32303, Stop: 30516, Start Num: 228
Candidate Starts for Changeling_45:
(Start: 228 @32303 has 960 MA's), (360, 32099), (362, 32096), (366, 32090), (375, 32075), (384, 32060), (400, 32024), (410, 31997), (424, 31970), (435, 31949), (490, 31817), (570, 31724), (590, 31676), (595, 31667), (607, 31652), (643, 31586), (686, 31505), (707, 31457), (778, 31313), (803, 31232), (823, 31181), (835, 31148), (836, 31145), (847, 31109), (855, 31079), (871, 31040), (895, 31019), (924, 30944), (929, 30932), (949, 30881), (958, 30854), (982, 30818), (992, 30800), (1009, 30764), (1013, 30740), (1038, 30683), (1042, 30662), (1066, 30605), (1073, 30593), (1079, 30584),

Gene: Chaph_45 Start: 31581, Stop: 29755, Start Num: 228
Candidate Starts for Chaph_45:
(Start: 228 @31581 has 960 MA's), (Start: 241 @31560 has 3 MA's), (263, 31530), (278, 31500), (384, 31338), (394, 31320), (424, 31248), (430, 31239), (480, 31119), (490, 31095), (570, 31002), (592, 30954), (607, 30933), (626, 30894), (696, 30762), (707, 30741), (729, 30696), (733, 30684), (798, 30531), (803, 30510), (847, 30387), (855, 30357), (871, 30318), (900, 30252), (901, 30249), (906, 30234), (919, 30210), (929, 30186), (1013, 29979), (1066, 29844), (1073, 29832), (1079, 29823),

Gene: Chargerpower_44 Start: 30403, Stop: 28610, Start Num: 228
Candidate Starts for Chargerpower_44:
(158, 30496), (Start: 228 @30403 has 960 MA's), (235, 30394), (304, 30292), (307, 30286), (360, 30199), (370, 30181), (400, 30121), (410, 30094), (424, 30067), (466, 29962), (490, 29914), (570, 29821), (587, 29776), (659, 29653), (764, 29455), (796, 29356), (798, 29347), (803, 29326), (855, 29173), (895, 29113), (897, 29101), (900, 29092), (982, 28912), (1009, 28858), (1042, 28756), (1045, 28747), (1066, 28699), (1073, 28687), (1079, 28678),

Gene: Charles1_61 Start: 54304, Stop: 52445, Start Num: 190
Candidate Starts for Charles1_61:
(Start: 173 @54328 has 3 MA's), (Start: 190 @54304 has 336 MA's), (Start: 222 @54280 has 3 MA's), (Start: 232 @54274 has 2 MA's), (261, 54232), (274, 54211), (336, 54097), (339, 54091), (355, 54061), (390, 54001), (398, 53980), (416, 53926), (429, 53914), (436, 53896), (440, 53884), (487, 53779), (552, 53722), (569, 53686), (573, 53674), (585, 53647), (601, 53620), (611, 53602), (622, 53584), (643, 53545), (648, 53536), (649, 53533), (796, 53173), (804, 53140), (812, 53119), (848, 53026), (851, 53017), (877, 52954), (900, 52918), (901, 52915), (906, 52900), (939, 52822), (946, 52810), (953, 52789), (976, 52750), (1013, 52660), (1022, 52642), (1024, 52636), (1032, 52621), (1040, 52597), (1042, 52582), (1043, 52579), (1047, 52567), (1059, 52543), (1082, 52495), (1093, 52471),

Gene: CharlieGBrown_61 Start: 54143, Stop: 52284, Start Num: 190
Candidate Starts for CharlieGBrown_61:
(Start: 173 @54167 has 3 MA's), (Start: 190 @54143 has 336 MA's), (Start: 222 @54119 has 3 MA's), (Start: 232 @54113 has 2 MA's), (261, 54071), (274, 54050), (336, 53936), (339, 53930), (355, 53900), (390, 53840), (398, 53819), (416, 53765), (429, 53753), (436, 53735), (440, 53723), (487, 53618), (552, 53561), (569, 53525), (573, 53513), (583, 53489), (590, 53477), (601, 53459), (611, 53441), (622, 53423), (643, 53384), (648, 53375), (649, 53372), (651, 53369), (761, 53114), (796, 53012), (804, 52979), (812, 52958), (848, 52865), (851, 52856), (877, 52793), (900, 52757), (901, 52754), (906, 52739), (939, 52661), (946, 52649), (953, 52628), (976, 52589), (1013, 52499), (1022, 52481), (1024, 52475), (1032, 52460), (1040, 52436), (1042, 52421), (1043, 52418), (1047, 52406), (1059, 52382), (1066, 52361), (1082, 52334), (1093, 52310), (1098, 52295),

Gene: CharlottesWeb_50 Start: 45347, Stop: 43530, Start Num: 225

Candidate Starts for CharlottesWeb_50:
(63, 45662), (74, 45626), (75, 45620), (87, 45587), (Start: 225 @45347 has 16 MA's), (249, 45311), (259, 45299), (261, 45296), (278, 45266), (351, 45140), (381, 45092), (411, 45017), (440, 44960), (476, 44885), (487, 44864), (569, 44771), (635, 44642), (649, 44618), (775, 44327), (780, 44306), (787, 44288), (804, 44231), (848, 44117), (851, 44108), (901, 44006), (906, 43991), (939, 43913), (946, 43901), (953, 43880), (955, 43871), (990, 43817), (1007, 43784), (1013, 43751), (1014, 43748), (1032, 43712), (1040, 43688), (1059, 43628), (1093, 43556),

Gene: Charm_42 Start: 30834, Stop: 29041, Start Num: 228
Candidate Starts for Charm_42:
(Start: 228 @30834 has 960 MA's), (235, 30825), (304, 30723), (342, 30663), (343, 30660), (360, 30630), (386, 30585), (400, 30552), (410, 30525), (415, 30510), (424, 30498), (430, 30489), (448, 30447), (490, 30345), (570, 30252), (579, 30228), (587, 30207), (659, 30084), (733, 29925), (735, 29922), (764, 29886), (767, 29880), (803, 29757), (830, 29691), (851, 29622), (855, 29604), (895, 29544), (900, 29523), (919, 29481), (949, 29406), (990, 29331), (1009, 29289), (1042, 29187), (1066, 29130), (1073, 29118), (1079, 29109),

Gene: Chartreuse_45 Start: 29574, Stop: 27733, Start Num: 228
Candidate Starts for Chartreuse_45:
(Start: 228 @29574 has 960 MA's), (360, 29370), (399, 29295), (400, 29292), (410, 29265), (415, 29250), (424, 29238), (448, 29187), (485, 29097), (490, 29085), (570, 28992), (585, 28953), (595, 28935), (607, 28920), (643, 28854), (660, 28821), (663, 28818), (710, 28716), (742, 28656), (778, 28572), (803, 28491), (835, 28407), (836, 28404), (840, 28395), (847, 28368), (855, 28338), (895, 28278), (906, 28239), (1009, 28023), (1010, 28020), (1013, 27999), (1066, 27864), (1073, 27852), (1079, 27843), (1082, 27840), (1115, 27747),

Gene: Che12_47 Start: 30450, Stop: 28663, Start Num: 228
Candidate Starts for Che12_47:
(Start: 228 @30450 has 960 MA's), (360, 30246), (366, 30237), (399, 30174), (400, 30171), (410, 30144), (424, 30117), (435, 30096), (447, 30069), (490, 29964), (570, 29871), (590, 29823), (654, 29715), (670, 29685), (707, 29604), (803, 29379), (835, 29295), (836, 29292), (847, 29256), (855, 29226), (871, 29187), (895, 29166), (900, 29145), (906, 29127), (949, 29028), (958, 29001), (982, 28965), (992, 28947), (1009, 28911), (1013, 28887), (1065, 28755), (1066, 28752), (1073, 28740), (1079, 28731),

Gene: CheetO_60 Start: 54266, Stop: 52407, Start Num: 190
Candidate Starts for CheetO_60:
(Start: 173 @54290 has 3 MA's), (Start: 190 @54266 has 336 MA's), (Start: 222 @54242 has 3 MA's), (Start: 232 @54236 has 2 MA's), (261, 54194), (274, 54173), (336, 54059), (339, 54053), (355, 54023), (390, 53963), (398, 53942), (416, 53888), (429, 53876), (436, 53858), (440, 53846), (487, 53741), (552, 53684), (569, 53648), (573, 53636), (583, 53612), (590, 53600), (601, 53582), (611, 53564), (622, 53546), (643, 53507), (648, 53498), (649, 53495), (651, 53492), (796, 53135), (804, 53102), (812, 53081), (848, 52988), (851, 52979), (877, 52916), (900, 52880), (901, 52877), (906, 52862), (939, 52784), (946, 52772), (953, 52751), (976, 52712), (1013, 52622), (1022, 52604), (1024, 52598), (1032, 52583), (1040, 52559), (1042, 52544), (1043, 52541), (1047, 52529), (1059, 52505), (1082, 52457), (1093, 52433),

Gene: Cheeto1_39 Start: 29061, Stop: 27196, Start Num: 297
Candidate Starts for Cheeto1_39:
(Start: 297 @29061 has 21 MA's), (310, 29037), (380, 28905), (404, 28848), (431, 28794), (439, 28773), (442, 28767), (552, 28566), (586, 28482), (590, 28470), (607, 28440), (618, 28419), (623, 28407), (636, 28383), (659, 28338), (685, 28293), (701, 28251), (719, 28206), (726, 28191), (752, 28131), (768, 28089), (840, 27906), (851, 27867), (855, 27849), (873, 27807), (908, 27720), (1010,

27462), (1013, 27438), (1025, 27405), (1068, 27294),

Gene: Chentzyk_59 Start: 54416, Stop: 52599, Start Num: 230
Candidate Starts for Chentzyk_59:
(110, 54599), (Start: 230 @54416 has 52 MA's), (249, 54386), (366, 54206), (435, 54053), (439, 54041), (452, 54011), (458, 54005), (487, 53942), (489, 53936), (552, 53885), (566, 53858), (569, 53849), (590, 53801), (649, 53696), (694, 53600), (722, 53549), (775, 53405), (787, 53366), (797, 53336), (804, 53309), (810, 53297), (846, 53201), (848, 53195), (851, 53186), (854, 53174), (883, 53102), (900, 53072), (906, 53054), (912, 53045), (939, 52976), (946, 52964), (953, 52943), (992, 52874), (1002, 52859), (1010, 52835), (1013, 52814), (1022, 52796), (1024, 52790), (1038, 52757), (1040, 52751), (1043, 52733), (1047, 52721), (1054, 52709), (1059, 52697), (1078, 52655), (1093, 52625),

Gene: Chepli_40 Start: 28352, Stop: 26460, Start Num: 296
Candidate Starts for Chepli_40:
(Start: 230 @28460 has 52 MA's), (Start: 241 @28442 has 3 MA's), (Start: 296 @28352 has 13 MA's), (Start: 305 @28343 has 5 MA's), (337, 28286), (346, 28256), (369, 28217), (378, 28202), (382, 28196), (391, 28178), (402, 28145), (439, 28067), (442, 28061), (460, 28010), (474, 27971), (552, 27860), (586, 27776), (590, 27764), (607, 27734), (614, 27719), (618, 27713), (621, 27707), (623, 27701), (626, 27695), (770, 27380), (833, 27185), (855, 27113), (873, 27071), (889, 27041), (897, 27020), (908, 26984), (934, 26912), (989, 26795), (992, 26786), (1010, 26726), (1013, 26702), (1017, 26690), (1033, 26654), (1068, 26558),

Gene: Cher_60 Start: 54560, Stop: 52701, Start Num: 190
Candidate Starts for Cher_60:
(Start: 173 @54584 has 3 MA's), (Start: 190 @54560 has 336 MA's), (Start: 222 @54536 has 3 MA's), (Start: 232 @54530 has 2 MA's), (261, 54488), (274, 54467), (336, 54353), (339, 54347), (355, 54317), (390, 54257), (398, 54236), (416, 54182), (429, 54170), (436, 54152), (440, 54140), (487, 54035), (552, 53978), (569, 53942), (573, 53930), (585, 53903), (611, 53858), (643, 53801), (648, 53792), (649, 53789), (796, 53429), (804, 53396), (812, 53375), (848, 53282), (851, 53273), (877, 53210), (900, 53174), (901, 53171), (906, 53156), (939, 53078), (946, 53066), (953, 53045), (976, 53006), (1013, 52916), (1022, 52898), (1024, 52892), (1032, 52877), (1040, 52853), (1042, 52838), (1043, 52835), (1047, 52823), (1059, 52799), (1082, 52751), (1093, 52727),

Gene: ChickenKing_38 Start: 28974, Stop: 27109, Start Num: 297
Candidate Starts for ChickenKing_38:
(Start: 297 @28974 has 21 MA's), (310, 28950), (380, 28818), (404, 28761), (431, 28707), (439, 28686), (442, 28680), (552, 28479), (586, 28395), (590, 28383), (607, 28353), (618, 28332), (623, 28320), (636, 28296), (659, 28251), (701, 28164), (719, 28119), (726, 28104), (768, 28002), (840, 27819), (851, 27780), (855, 27762), (873, 27720), (879, 27705), (908, 27633), (1010, 27375), (1013, 27351), (1025, 27318), (1068, 27207),

Gene: ChikPic_38 Start: 28741, Stop: 26876, Start Num: 301
Candidate Starts for ChikPic_38:
(Start: 301 @28741 has 153 MA's), (320, 28696), (346, 28642), (382, 28582), (402, 28531), (439, 28453), (442, 28447), (458, 28402), (459, 28399), (460, 28396), (474, 28357), (502, 28297), (582, 28174), (586, 28165), (590, 28153), (597, 28141), (607, 28123), (618, 28102), (623, 28090), (706, 27919), (773, 27751), (840, 27586), (850, 27550), (855, 27529), (873, 27487), (908, 27400), (924, 27355), (965, 27256), (989, 27211), (992, 27202), (1010, 27142), (1013, 27118), (1025, 27085), (1068, 26974),

Gene: Childish_60 Start: 54571, Stop: 52712, Start Num: 190
Candidate Starts for Childish_60:

(Start: 173 @54595 has 3 MA's), (Start: 190 @54571 has 336 MA's), (Start: 222 @54547 has 3 MA's), (Start: 232 @54541 has 2 MA's), (261, 54499), (274, 54478), (336, 54364), (339, 54358), (355, 54328), (390, 54268), (398, 54247), (416, 54193), (429, 54181), (436, 54163), (440, 54151), (487, 54046), (552, 53989), (569, 53953), (573, 53941), (585, 53914), (601, 53887), (611, 53869), (622, 53851), (643, 53812), (648, 53803), (649, 53800), (761, 53542), (796, 53440), (804, 53407), (812, 53386), (848, 53293), (851, 53284), (877, 53221), (900, 53185), (901, 53182), (906, 53167), (939, 53089), (946, 53077), (953, 53056), (976, 53017), (1013, 52927), (1022, 52909), (1024, 52903), (1032, 52888), (1040, 52864), (1042, 52849), (1043, 52846), (1047, 52834), (1059, 52810), (1066, 52789), (1082, 52762), (1093, 52738),

Gene: ChiliPepper_40 Start: 29968, Stop: 31839, Start Num: 217
Candidate Starts for ChiliPepper_40:
(Start: 217 @29968 has 68 MA's), (346, 30151), (369, 30190), (386, 30208), (414, 30280), (430, 30304), (435, 30316), (436, 30319), (473, 30400), (602, 30592), (626, 30640), (681, 30730), (741, 30871), (784, 30994), (803, 31054), (830, 31120), (833, 31135), (845, 31171), (848, 31180), (855, 31207), (898, 31300), (936, 31393), (973, 31471), (1009, 31543), (1018, 31582), (1038, 31624), (1058, 31678), (1066, 31702), (1079, 31723), (1090, 31747),

Gene: Chilliams_97 Start: 71240, Stop: 73045, Start Num: 238
Candidate Starts for Chilliams_97:
(206, 71195), (Start: 238 @71240 has 11 MA's), (Start: 276 @71303 has 2 MA's), (303, 71342), (307, 71351), (352, 71426), (390, 71480), (429, 71561), (439, 71588), (442, 71594), (493, 71699), (570, 71768), (579, 71792), (613, 71846), (616, 71852), (626, 71873), (633, 71888), (666, 71942), (729, 72077), (735, 72092), (774, 72173), (783, 72206), (793, 72224), (796, 72236), (798, 72245), (803, 72266), (845, 72389), (898, 72539), (902, 72551), (919, 72587), (932, 72620), (953, 72674), (966, 72701), (1014, 72824), (1016, 72830), (1036, 72872), (1038, 72878), (1041, 72896), (1066, 72956), (1094, 73007),

Gene: ChipMunk_47 Start: 33204, Stop: 31417, Start Num: 228
Candidate Starts for ChipMunk_47:
(Start: 228 @33204 has 960 MA's), (362, 32997), (366, 32991), (375, 32976), (384, 32961), (400, 32925), (410, 32898), (424, 32871), (435, 32850), (465, 32769), (490, 32718), (570, 32625), (590, 32577), (595, 32568), (607, 32553), (643, 32487), (707, 32358), (709, 32352), (803, 32133), (823, 32082), (835, 32049), (836, 32046), (855, 31980), (871, 31941), (895, 31920), (924, 31845), (929, 31833), (949, 31782), (982, 31719), (992, 31701), (1009, 31665), (1013, 31641), (1042, 31563), (1066, 31506), (1073, 31494), (1079, 31485),

Gene: Chipette_61 Start: 54255, Stop: 52396, Start Num: 190
Candidate Starts for Chipette_61:
(Start: 173 @54279 has 3 MA's), (Start: 190 @54255 has 336 MA's), (Start: 222 @54231 has 3 MA's), (Start: 232 @54225 has 2 MA's), (261, 54183), (274, 54162), (336, 54048), (339, 54042), (355, 54012), (390, 53952), (398, 53931), (416, 53877), (429, 53865), (436, 53847), (440, 53835), (487, 53730), (552, 53673), (569, 53637), (573, 53625), (583, 53601), (590, 53589), (601, 53571), (611, 53553), (622, 53535), (643, 53496), (648, 53487), (649, 53484), (651, 53481), (796, 53124), (804, 53091), (812, 53070), (848, 52977), (851, 52968), (877, 52905), (900, 52869), (901, 52866), (906, 52851), (939, 52773), (946, 52761), (953, 52740), (976, 52701), (1013, 52611), (1022, 52593), (1024, 52587), (1032, 52572), (1040, 52548), (1042, 52533), (1043, 52530), (1047, 52518), (1059, 52494), (1082, 52446), (1093, 52422),

Gene: ChipsNGuac_40 Start: 28651, Stop: 26870, Start Num: 221
Candidate Starts for ChipsNGuac_40:
(168, 28720), (188, 28696), (205, 28675), (Start: 214 @28660 has 2 MA's), (Start: 221 @28651 has 14 MA's), (299, 28528), (328, 28480), (411, 28342), (413, 28336), (439, 28288), (482, 28207), (483,

28201), (493, 28177), (570, 28108), (613, 28027), (626, 28000), (633, 27985), (672, 27922), (697, 27865), (709, 27841), (712, 27835), (729, 27799), (748, 27763), (783, 27691), (798, 27649), (806, 27622), (841, 27526), (848, 27502), (855, 27475), (871, 27436), (902, 27361), (932, 27292), (951, 27244), (958, 27223), (986, 27169), (991, 27154), (1014, 27088), (1038, 27031), (1042, 27010), (1043, 27007), (1049, 26989), (1059, 26974),

Gene: Chiqui_43 Start: 31530, Stop: 29692, Start Num: 228
Candidate Starts for Chiqui_43:
(171, 31602), (Start: 228 @31530 has 960 MA's), (263, 31479), (360, 31326), (384, 31287), (399, 31254), (424, 31197), (430, 31188), (435, 31176), (480, 31068), (490, 31044), (493, 31035), (570, 30948), (592, 30900), (626, 30840), (663, 30777), (707, 30687), (767, 30573), (803, 30450), (836, 30363), (847, 30327), (855, 30297), (901, 30186), (919, 30147), (929, 30123), (935, 30105), (936, 30102), (990, 29982), (992, 29976), (1013, 29916), (1065, 29784), (1066, 29781), (1073, 29769), (1079, 29760),

Gene: Chorkpop_60 Start: 54047, Stop: 52188, Start Num: 190
Candidate Starts for Chorkpop_60:
(Start: 173 @54071 has 3 MA's), (Start: 190 @54047 has 336 MA's), (Start: 222 @54023 has 3 MA's), (Start: 232 @54017 has 2 MA's), (261, 53975), (274, 53954), (336, 53840), (339, 53834), (355, 53804), (390, 53744), (398, 53723), (416, 53669), (429, 53657), (436, 53639), (440, 53627), (487, 53522), (552, 53465), (569, 53429), (573, 53417), (585, 53390), (601, 53363), (611, 53345), (622, 53327), (643, 53288), (648, 53279), (649, 53276), (761, 53018), (796, 52916), (804, 52883), (812, 52862), (848, 52769), (851, 52760), (877, 52697), (900, 52661), (901, 52658), (906, 52643), (939, 52565), (946, 52553), (953, 52532), (976, 52493), (1013, 52403), (1022, 52385), (1024, 52379), (1032, 52364), (1040, 52340), (1042, 52325), (1043, 52322), (1047, 52310), (1059, 52286), (1082, 52238), (1093, 52214),

Gene: ChrisnMich_53 Start: 52982, Stop: 51141, Start Num: 163
Candidate Starts for ChrisnMich_53:
(Start: 163 @52982 has 29 MA's), (Start: 182 @52964 has 33 MA's), (Start: 232 @52940 has 2 MA's), (249, 52913), (261, 52898), (274, 52877), (324, 52790), (386, 52685), (402, 52643), (436, 52577), (449, 52547), (452, 52538), (457, 52535), (458, 52532), (552, 52412), (560, 52394), (569, 52376), (573, 52364), (580, 52349), (585, 52337), (648, 52226), (649, 52223), (664, 52193), (685, 52157), (775, 51932), (776, 51929), (787, 51893), (796, 51869), (804, 51836), (846, 51728), (848, 51722), (851, 51713), (900, 51614), (901, 51611), (906, 51596), (939, 51518), (946, 51506), (953, 51485), (955, 51476), (976, 51446), (1007, 51389), (1013, 51356), (1022, 51338), (1024, 51332), (1040, 51293), (1043, 51275), (1047, 51263), (1059, 51239), (1078, 51197), (1082, 51191), (1093, 51167),

Gene: ChristmasHams_41 Start: 32080, Stop: 30254, Start Num: 228
Candidate Starts for ChristmasHams_41:
(Start: 228 @32080 has 960 MA's), (366, 31867), (373, 31852), (410, 31774), (418, 31753), (424, 31747), (430, 31738), (479, 31621), (490, 31594), (570, 31501), (576, 31486), (590, 31453), (621, 31402), (622, 31399), (659, 31333), (680, 31303), (690, 31273), (709, 31228), (729, 31189), (803, 31009), (821, 30961), (836, 30922), (855, 30856), (900, 30775), (901, 30772), (935, 30691), (1004, 30556), (1009, 30541), (1010, 30538), (1018, 30502), (1032, 30478), (1035, 30469), (1039, 30457), (1045, 30430), (1066, 30382), (1079, 30361),

Gene: Christoph_38 Start: 28630, Stop: 26765, Start Num: 301
Candidate Starts for Christoph_38:
(Start: 301 @28630 has 153 MA's), (Start: 305 @28621 has 5 MA's), (353, 28516), (360, 28507), (378, 28477), (380, 28474), (435, 28354), (439, 28342), (442, 28336), (483, 28231), (494, 28204), (582, 28063), (585, 28057), (586, 28054), (590, 28042), (606, 28015), (607, 28012), (614, 27997), (618, 27991), (621, 27985), (638, 27952), (701, 27823), (726, 27763), (847, 27448), (850, 27439), (851,

27436), (855, 27418), (873, 27376), (877, 27370), (879, 27361), (888, 27346), (908, 27289), (974, 27130), (989, 27100), (992, 27091), (1010, 27031), (1013, 27007), (1028, 26968), (1040, 26935), (1044, 26923), (1068, 26863),

Gene: Chuni_64 Start: 54807, Stop: 52948, Start Num: 190
Candidate Starts for Chuni_64:
(Start: 173 @54831 has 3 MA's), (Start: 190 @54807 has 336 MA's), (Start: 222 @54783 has 3 MA's), (Start: 232 @54777 has 2 MA's), (261, 54735), (274, 54714), (336, 54600), (339, 54594), (355, 54564), (390, 54504), (398, 54483), (416, 54429), (429, 54417), (436, 54399), (440, 54387), (487, 54282), (552, 54225), (569, 54189), (573, 54177), (583, 54153), (590, 54141), (601, 54123), (611, 54105), (622, 54087), (643, 54048), (648, 54039), (649, 54036), (651, 54033), (796, 53676), (804, 53643), (812, 53622), (848, 53529), (851, 53520), (877, 53457), (900, 53421), (901, 53418), (906, 53403), (939, 53325), (946, 53313), (953, 53292), (976, 53253), (1013, 53163), (1022, 53145), (1024, 53139), (1032, 53124), (1040, 53100), (1042, 53085), (1043, 53082), (1047, 53070), (1059, 53046), (1082, 52998), (1093, 52974),

Gene: Chunky_59 Start: 53596, Stop: 51737, Start Num: 190
Candidate Starts for Chunky_59:
(Start: 173 @53620 has 3 MA's), (Start: 190 @53596 has 336 MA's), (Start: 222 @53572 has 3 MA's), (Start: 232 @53566 has 2 MA's), (261, 53524), (274, 53503), (336, 53389), (339, 53383), (355, 53353), (390, 53293), (398, 53272), (416, 53218), (429, 53206), (436, 53188), (440, 53176), (487, 53071), (552, 53014), (569, 52978), (573, 52966), (585, 52939), (590, 52930), (611, 52894), (643, 52837), (648, 52828), (649, 52825), (651, 52822), (796, 52465), (804, 52432), (812, 52411), (848, 52318), (851, 52309), (877, 52246), (900, 52210), (901, 52207), (906, 52192), (939, 52114), (946, 52102), (953, 52081), (976, 52042), (1013, 51952), (1022, 51934), (1024, 51928), (1032, 51913), (1040, 51889), (1042, 51874), (1043, 51871), (1047, 51859), (1059, 51835), (1082, 51787), (1093, 51763),

Gene: Chupacabra_43 Start: 31120, Stop: 29285, Start Num: 228
Candidate Starts for Chupacabra_43:
(Start: 228 @31120 has 960 MA's), (263, 31069), (360, 30916), (373, 30892), (396, 30856), (399, 30844), (418, 30793), (424, 30787), (430, 30778), (462, 30694), (480, 30658), (485, 30646), (489, 30637), (490, 30634), (570, 30541), (592, 30493), (626, 30433), (643, 30406), (657, 30382), (694, 30304), (696, 30301), (707, 30280), (709, 30274), (744, 30208), (767, 30166), (803, 30043), (821, 29995), (847, 29920), (855, 29890), (871, 29851), (901, 29779), (919, 29740), (929, 29716), (931, 29710), (935, 29698), (985, 29590), (1013, 29509), (1024, 29485), (1045, 29422), (1066, 29374), (1073, 29362), (1079, 29353),

Gene: Chute_62 Start: 54608, Stop: 52749, Start Num: 190
Candidate Starts for Chute_62:
(Start: 173 @54632 has 3 MA's), (Start: 190 @54608 has 336 MA's), (Start: 222 @54584 has 3 MA's), (Start: 232 @54578 has 2 MA's), (261, 54536), (274, 54515), (336, 54401), (339, 54395), (355, 54365), (390, 54305), (398, 54284), (416, 54230), (429, 54218), (436, 54200), (440, 54188), (487, 54083), (552, 54026), (569, 53990), (573, 53978), (583, 53954), (590, 53942), (601, 53924), (611, 53906), (622, 53888), (643, 53849), (648, 53840), (649, 53837), (651, 53834), (796, 53477), (804, 53444), (812, 53423), (848, 53330), (851, 53321), (877, 53258), (900, 53222), (901, 53219), (906, 53204), (939, 53126), (946, 53114), (953, 53093), (976, 53054), (1013, 52964), (1022, 52946), (1024, 52940), (1032, 52925), (1040, 52901), (1042, 52886), (1043, 52883), (1047, 52871), (1059, 52847), (1082, 52799), (1093, 52775),

Gene: Ciao_45 Start: 34751, Stop: 32964, Start Num: 228
Candidate Starts for Ciao_45:
(Start: 228 @34751 has 960 MA's), (366, 34538), (373, 34523), (399, 34475), (410, 34445), (418, 34424), (424, 34418), (430, 34409), (479, 34292), (490, 34265), (570, 34172), (576, 34157), (590,

34124), (621, 34073), (622, 34070), (659, 34004), (680, 33974), (690, 33944), (709, 33899), (729, 33860), (803, 33680), (821, 33632), (836, 33593), (855, 33527), (897, 33455), (900, 33446), (935, 33362), (977, 33275), (1032, 33149), (1036, 33137), (1066, 33053), (1069, 33047),

Gene: Cici_44 Start: 31537, Stop: 29708, Start Num: 228
Candidate Starts for Cici_44:
(Start: 228 @31537 has 960 MA's), (263, 31486), (278, 31456), (384, 31294), (394, 31276), (399, 31261), (424, 31204), (430, 31195), (480, 31075), (490, 31051), (544, 31009), (570, 30958), (592, 30910), (607, 30889), (626, 30850), (654, 30805), (657, 30799), (696, 30718), (707, 30697), (729, 30652), (798, 30487), (803, 30466), (855, 30313), (871, 30274), (901, 30202), (906, 30187), (919, 30163), (926, 30145), (929, 30139), (931, 30133), (1013, 29932), (1066, 29797), (1073, 29785), (1079, 29776),

Gene: Cidela_36 Start: 29521, Stop: 27620, Start Num: 296
Candidate Starts for Cidela_36:
(Start: 296 @29521 has 13 MA's), (314, 29488), (346, 29422), (360, 29398), (369, 29383), (378, 29368), (382, 29362), (396, 29335), (402, 29311), (429, 29260), (431, 29254), (439, 29233), (442, 29227), (460, 29176), (474, 29137), (502, 29077), (560, 29008), (582, 28951), (586, 28942), (590, 28930), (607, 28900), (636, 28843), (706, 28696), (855, 28273), (873, 28231), (889, 28201), (897, 28180), (906, 28153), (908, 28144), (1010, 27886), (1013, 27862), (1025, 27829), (1028, 27823), (1068, 27718),

Gene: Cindaradix_42 Start: 31162, Stop: 29333, Start Num: 228
Candidate Starts for Cindaradix_42:
(Start: 228 @31162 has 960 MA's), (261, 31114), (360, 30958), (399, 30886), (424, 30829), (430, 30820), (480, 30700), (490, 30676), (570, 30583), (592, 30535), (607, 30514), (626, 30475), (654, 30430), (696, 30343), (701, 30334), (707, 30322), (729, 30277), (733, 30265), (803, 30091), (840, 29995), (847, 29968), (848, 29965), (855, 29938), (871, 29899), (900, 29830), (901, 29827), (906, 29812), (919, 29788), (929, 29764), (931, 29758), (1013, 29557), (1066, 29422), (1073, 29410), (1079, 29401),

Gene: Cintron_44 Start: 31550, Stop: 29724, Start Num: 228
Candidate Starts for Cintron_44:
(Start: 228 @31550 has 960 MA's), (261, 31502), (360, 31346), (399, 31274), (424, 31217), (430, 31208), (480, 31088), (490, 31064), (552, 31010), (570, 30971), (592, 30923), (607, 30902), (626, 30863), (654, 30818), (696, 30731), (701, 30722), (707, 30710), (729, 30665), (733, 30653), (798, 30500), (803, 30479), (847, 30356), (855, 30326), (871, 30287), (900, 30221), (901, 30218), (906, 30203), (919, 30179), (929, 30155), (1013, 29948), (1066, 29813), (1073, 29801), (1079, 29792),

Gene: Citius_45 Start: 31591, Stop: 29765, Start Num: 228
Candidate Starts for Citius_45:
(Start: 228 @31591 has 960 MA's), (Start: 241 @31570 has 3 MA's), (263, 31540), (278, 31510), (384, 31348), (394, 31330), (424, 31258), (430, 31249), (480, 31129), (490, 31105), (570, 31012), (592, 30964), (607, 30943), (626, 30904), (696, 30772), (707, 30751), (729, 30706), (733, 30694), (798, 30541), (803, 30520), (847, 30397), (855, 30367), (871, 30328), (900, 30262), (901, 30259), (906, 30244), (919, 30220), (929, 30196), (1013, 29989), (1066, 29854), (1073, 29842), (1079, 29833),

Gene: Clammy_46 Start: 31555, Stop: 29717, Start Num: 228
Candidate Starts for Clammy_46:
(Start: 228 @31555 has 960 MA's), (263, 31504), (307, 31438), (360, 31351), (396, 31291), (399, 31279), (424, 31222), (430, 31213), (480, 31093), (490, 31069), (570, 30973), (592, 30925), (626, 30865), (663, 30802), (696, 30733), (707, 30712), (744, 30640), (767, 30598), (778, 30556), (803, 30475), (821, 30427), (847, 30352), (855, 30322), (869, 30292), (901, 30211), (919, 30172), (929,

30148), (935, 30130), (992, 30001), (1013, 29941), (1066, 29806), (1073, 29794), (1079, 29785),

Gene: Clancy_38 Start: 28664, Stop: 26799, Start Num: 301
Candidate Starts for Clancy_38:
(Start: 241 @28751 has 3 MA's), (Start: 243 @28748 has 1 MA's), (Start: 301 @28664 has 153 MA's), (Start: 305 @28655 has 5 MA's), (353, 28550), (360, 28541), (378, 28511), (380, 28508), (435, 28388), (439, 28376), (442, 28370), (483, 28265), (494, 28238), (582, 28097), (585, 28091), (586, 28088), (590, 28076), (606, 28049), (607, 28046), (614, 28031), (618, 28025), (621, 28019), (638, 27986), (701, 27857), (726, 27797), (847, 27482), (850, 27473), (851, 27470), (855, 27452), (873, 27410), (877, 27404), (879, 27395), (888, 27380), (908, 27323), (974, 27164), (989, 27134), (992, 27125), (1010, 27065), (1013, 27041), (1028, 27002), (1040, 26969), (1044, 26957), (1068, 26897),

Gene: Clarenza_44 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Clarenza_44:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Clayda5_41 Start: 27431, Stop: 29296, Start Num: 217
Candidate Starts for Clayda5_41:
(Start: 215 @27428 has 12 MA's), (Start: 217 @27431 has 68 MA's), (220, 27434), (Start: 273 @27503 has 1 MA's), (436, 27785), (448, 27812), (473, 27866), (585, 28031), (626, 28106), (637, 28127), (784, 28481), (803, 28541), (823, 28592), (845, 28658), (855, 28694), (898, 28787), (973, 28958), (1009, 29030), (1038, 29111), (1065, 29186), (1066, 29189), (1079, 29210), (1108, 29279),

Gene: CliffHanger_44 Start: 28741, Stop: 30612, Start Num: 228
Candidate Starts for CliffHanger_44:
(Start: 228 @28741 has 960 MA's), (Start: 273 @28810 has 1 MA's), (Start: 285 @28831 has 1 MA's), (337, 28909), (360, 28948), (418, 29062), (430, 29077), (436, 29092), (473, 29173), (479, 29182), (579, 29323), (587, 29344), (599, 29359), (607, 29374), (626, 29413), (637, 29434), (803, 29830), (806, 29836), (833, 29911), (855, 29983), (898, 30076), (924, 30136), (936, 30169), (973, 30247), (1009, 30319), (1038, 30400), (1040, 30406), (1041, 30418), (1058, 30454), (1066, 30478), (1090, 30523),

Gene: Clock_37 Start: 29844, Stop: 27952, Start Num: 301
Candidate Starts for Clock_37:
(Start: 301 @29844 has 153 MA's), (320, 29799), (346, 29745), (349, 29739), (360, 29721), (380, 29688), (382, 29685), (402, 29634), (404, 29631), (440, 29553), (442, 29550), (459, 29502), (474, 29460), (552, 29358), (567, 29325), (582, 29283), (585, 29277), (586, 29274), (590, 29262), (607, 29232), (623, 29199), (624, 29196), (636, 29175), (706, 29028), (770, 28872), (855, 28605), (870, 28569), (873, 28563), (879, 28548), (906, 28485), (908, 28476), (1013, 28194), (1014, 28191), (1028, 28155), (1068, 28050),

Gene: CloudWang3_45 Start: 29424, Stop: 27583, Start Num: 228
Candidate Starts for CloudWang3_45:
(Start: 200 @29454 has 1 MA's), (Start: 228 @29424 has 960 MA's), (360, 29220), (399, 29145), (400, 29142), (410, 29115), (415, 29100), (424, 29088), (448, 29037), (485, 28947), (490, 28935), (570, 28842), (585, 28803), (595, 28785), (607, 28770), (643, 28704), (660, 28671), (663, 28668), (710, 28566), (742, 28506), (778, 28422), (803, 28341), (835, 28257), (836, 28254), (840, 28245), (847, 28218), (855, 28188), (895, 28128), (906, 28089), (1009, 27873), (1010, 27870), (1013, 27849), (1066, 27714), (1073, 27702), (1079, 27693), (1082, 27690), (1115, 27597),

Gene: CloverMinnie_53 Start: 47593, Stop: 45776, Start Num: 225
Candidate Starts for CloverMinnie_53:
(Start: 225 @47593 has 16 MA's), (Start: 232 @47584 has 2 MA's), (249, 47557), (259, 47545), (274, 47521), (278, 47512), (336, 47416), (362, 47374), (381, 47338), (411, 47263), (449, 47188), (487, 47110), (552, 47053), (569, 47017), (573, 47005), (583, 46981), (635, 46888), (649, 46864), (658, 46846), (775, 46573), (787, 46534), (797, 46504), (804, 46477), (846, 46369), (848, 46363), (851, 46354), (897, 46264), (900, 46255), (901, 46252), (906, 46237), (939, 46159), (946, 46147), (948, 46141), (953, 46126), (981, 46078), (1007, 46030), (1013, 45997), (1024, 45973), (1040, 45934), (1042, 45919), (1059, 45874), (1093, 45802),

Gene: ClownCar_48 Start: 31746, Stop: 29932, Start Num: 228
Candidate Starts for ClownCar_48:
(Start: 228 @31746 has 960 MA's), (257, 31707), (263, 31695), (360, 31542), (369, 31527), (399, 31470), (424, 31413), (430, 31404), (448, 31362), (465, 31311), (490, 31260), (570, 31167), (590, 31119), (607, 31095), (626, 31056), (643, 31029), (659, 30999), (703, 30906), (709, 30894), (732, 30846), (742, 30831), (803, 30675), (823, 30624), (835, 30591), (836, 30588), (855, 30522), (871, 30483), (901, 30411), (919, 30372), (929, 30348), (935, 30330), (949, 30297), (992, 30216), (1013, 30156), (1022, 30138), (1042, 30078), (1045, 30069), (1066, 30021), (1073, 30009), (1079, 30000),

Gene: Cobra_62 Start: 54586, Stop: 52727, Start Num: 190
Candidate Starts for Cobra_62:
(Start: 173 @54610 has 3 MA's), (Start: 190 @54586 has 336 MA's), (Start: 222 @54562 has 3 MA's), (Start: 232 @54556 has 2 MA's), (261, 54514), (274, 54493), (336, 54379), (339, 54373), (355, 54343), (390, 54283), (398, 54262), (416, 54208), (429, 54196), (436, 54178), (440, 54166), (487, 54061), (552, 54004), (569, 53968), (583, 53932), (590, 53920), (601, 53902), (611, 53884), (622, 53866), (643, 53827), (648, 53818), (649, 53815), (651, 53812), (761, 53557), (796, 53455), (804, 53422), (812, 53401), (848, 53308), (851, 53299), (877, 53236), (900, 53200), (901, 53197), (906, 53182), (939, 53104), (946, 53092), (953, 53071), (976, 53032), (1013, 52942), (1022, 52924), (1024, 52918), (1032, 52903), (1040, 52879), (1042, 52864), (1043, 52861), (1047, 52849), (1059, 52825), (1082, 52777), (1093, 52753),

Gene: Coco2012_50 Start: 45339, Stop: 43522, Start Num: 225
Candidate Starts for Coco2012_50:
(75, 45612), (87, 45579), (Start: 225 @45339 has 16 MA's), (249, 45303), (259, 45291), (261, 45288), (278, 45258), (351, 45132), (381, 45084), (411, 45009), (440, 44952), (476, 44877), (487, 44856), (569, 44763), (635, 44634), (649, 44610), (775, 44319), (780, 44298), (787, 44280), (804, 44223), (848, 44109), (851, 44100), (901, 43998), (906, 43983), (939, 43905), (946, 43893), (953, 43872), (955, 43863), (990, 43809), (1007, 43776), (1013, 43743), (1014, 43740), (1032, 43704), (1040, 43680), (1059, 43620), (1093, 43548),

Gene: Cocoaberry_45 Start: 31574, Stop: 29748, Start Num: 228
Candidate Starts for Cocoaberry_45:
(Start: 228 @31574 has 960 MA's), (Start: 241 @31553 has 3 MA's), (263, 31523), (278, 31493), (384, 31331), (394, 31313), (424, 31241), (430, 31232), (480, 31112), (490, 31088), (570, 30995), (592, 30947), (607, 30926), (626, 30887), (696, 30755), (707, 30734), (729, 30689), (733, 30677), (798, 30524), (803, 30503), (847, 30380), (855, 30350), (871, 30311), (900, 30245), (901, 30242), (906, 30227), (919, 30203), (929, 30179), (1013, 29972), (1066, 29837), (1073, 29825), (1079, 29816),

Gene: Coffee_57 Start: 52600, Stop: 50771, Start Num: 190
Candidate Starts for Coffee_57:
(Start: 190 @52600 has 336 MA's), (Start: 232 @52573 has 2 MA's), (Start: 255 @52543 has 8 MA's), (261, 52531), (Start: 276 @52504 has 2 MA's), (278, 52501), (284, 52492), (307, 52474), (362, 52378),

(390, 52327), (399, 52303), (406, 52279), (467, 52141), (482, 52117), (487, 52105), (552, 52048), (569, 52012), (573, 52000), (583, 51976), (630, 51892), (648, 51862), (649, 51859), (664, 51829), (727, 51685), (755, 51619), (771, 51580), (775, 51568), (780, 51547), (787, 51529), (804, 51472), (831, 51415), (840, 51388), (848, 51358), (851, 51349), (875, 51283), (897, 51256), (900, 51247), (906, 51229), (919, 51205), (939, 51151), (946, 51139), (953, 51118), (992, 51049), (1013, 50989), (1022, 50971), (1036, 50938), (1040, 50926), (1042, 50911), (1043, 50908), (1047, 50896), (1059, 50872), (1060, 50869), (1082, 50821), (1083, 50818), (1093, 50797), (1100, 50776),

Gene: CogOmlette_43 Start: 30719, Stop: 28926, Start Num: 228
Candidate Starts for CogOmlette_43:
(Start: 228 @30719 has 960 MA's), (235, 30710), (263, 30668), (317, 30581), (360, 30515), (366, 30506), (370, 30497), (381, 30479), (400, 30437), (410, 30410), (415, 30395), (424, 30383), (448, 30332), (490, 30230), (565, 30152), (570, 30137), (595, 30080), (659, 29969), (704, 29873), (733, 29810), (764, 29771), (767, 29765), (803, 29642), (840, 29546), (847, 29519), (855, 29489), (871, 29450), (900, 29408), (949, 29291), (990, 29216), (1009, 29174), (1042, 29072), (1066, 29015), (1073, 29003), (1079, 28994),

Gene: ColaCorta_38 Start: 28731, Stop: 26866, Start Num: 301
Candidate Starts for ColaCorta_38:
(Start: 301 @28731 has 153 MA's), (320, 28686), (346, 28632), (382, 28572), (402, 28521), (439, 28443), (442, 28437), (458, 28392), (459, 28389), (460, 28386), (474, 28347), (502, 28287), (582, 28164), (586, 28155), (590, 28143), (597, 28131), (607, 28113), (618, 28092), (623, 28080), (706, 27909), (773, 27741), (840, 27576), (850, 27540), (855, 27519), (873, 27477), (908, 27390), (924, 27345), (965, 27246), (989, 27201), (992, 27192), (1010, 27132), (1013, 27108), (1025, 27075), (1068, 26964),

Gene: Colbert_59 Start: 53606, Stop: 51747, Start Num: 190
Candidate Starts for Colbert_59:
(Start: 173 @53630 has 3 MA's), (Start: 190 @53606 has 336 MA's), (Start: 222 @53582 has 3 MA's), (Start: 232 @53576 has 2 MA's), (261, 53534), (274, 53513), (336, 53399), (339, 53393), (355, 53363), (390, 53303), (398, 53282), (416, 53228), (429, 53216), (436, 53198), (440, 53186), (487, 53081), (552, 53024), (569, 52988), (573, 52976), (585, 52949), (601, 52922), (611, 52904), (622, 52886), (643, 52847), (648, 52838), (649, 52835), (651, 52832), (796, 52475), (804, 52442), (812, 52421), (848, 52328), (851, 52319), (877, 52256), (900, 52220), (901, 52217), (906, 52202), (939, 52124), (946, 52112), (953, 52091), (976, 52052), (1013, 51962), (1022, 51944), (1024, 51938), (1032, 51923), (1040, 51899), (1042, 51884), (1043, 51881), (1047, 51869), (1059, 51845), (1082, 51797), (1093, 51773),

Gene: Colbster_48 Start: 31856, Stop: 30042, Start Num: 228
Candidate Starts for Colbster_48:
(Start: 228 @31856 has 960 MA's), (257, 31817), (263, 31805), (360, 31652), (369, 31637), (399, 31580), (424, 31523), (430, 31514), (448, 31472), (465, 31421), (490, 31370), (570, 31277), (590, 31229), (595, 31220), (607, 31205), (626, 31166), (643, 31139), (659, 31109), (703, 31016), (732, 30956), (742, 30941), (803, 30785), (836, 30698), (855, 30632), (871, 30593), (901, 30521), (919, 30482), (929, 30458), (935, 30440), (949, 30407), (958, 30380), (992, 30326), (1013, 30266), (1042, 30188), (1066, 30131), (1073, 30119), (1079, 30110),

Gene: Coldpizza_51 Start: 48550, Stop: 46769, Start Num: 224
Candidate Starts for Coldpizza_51:
(158, 48637), (Start: 224 @48550 has 1 MA's), (259, 48505), (339, 48388), (390, 48304), (409, 48250), (457, 48160), (487, 48094), (552, 48037), (569, 48001), (573, 47989), (594, 47947), (649, 47848), (775, 47557), (804, 47461), (836, 47389), (846, 47356), (848, 47350), (851, 47341), (875, 47278), (901, 47239), (906, 47224), (915, 47209), (939, 47146), (946, 47134), (953, 47113), (955, 47104),

(976, 47074), (1002, 47029), (1010, 47005), (1013, 46984), (1024, 46960), (1040, 46921), (1059, 46867), (1093, 46795),

Gene: Coletti_63 Start: 55108, Stop: 53249, Start Num: 190
Candidate Starts for Coletti_63:
(Start: 173 @55132 has 3 MA's), (Start: 190 @55108 has 336 MA's), (Start: 222 @55084 has 3 MA's), (Start: 232 @55078 has 2 MA's), (261, 55036), (274, 55015), (336, 54901), (339, 54895), (355, 54865), (390, 54805), (398, 54784), (416, 54730), (429, 54718), (436, 54700), (440, 54688), (487, 54583), (552, 54526), (569, 54490), (573, 54478), (583, 54454), (590, 54442), (601, 54424), (611, 54406), (622, 54388), (643, 54349), (648, 54340), (649, 54337), (651, 54334), (796, 53977), (804, 53944), (812, 53923), (848, 53830), (851, 53821), (877, 53758), (900, 53722), (901, 53719), (906, 53704), (939, 53626), (946, 53614), (953, 53593), (976, 53554), (1013, 53464), (1022, 53446), (1024, 53440), (1032, 53425), (1040, 53401), (1042, 53386), (1043, 53383), (1047, 53371), (1059, 53347), (1082, 53299), (1093, 53275),

Gene: Colin_46 Start: 32075, Stop: 30288, Start Num: 228
Candidate Starts for Colin_46:
(Start: 228 @32075 has 960 MA's), (362, 31868), (366, 31862), (384, 31832), (400, 31796), (410, 31769), (424, 31742), (435, 31721), (490, 31589), (570, 31496), (590, 31448), (595, 31439), (607, 31424), (643, 31358), (686, 31277), (707, 31229), (803, 31004), (823, 30953), (835, 30920), (836, 30917), (855, 30851), (871, 30812), (895, 30791), (924, 30716), (929, 30704), (982, 30590), (1007, 30545), (1009, 30536), (1013, 30512), (1038, 30455), (1042, 30434), (1066, 30377), (1073, 30365),

Gene: Coltrane_40 Start: 27441, Stop: 29309, Start Num: 215
Candidate Starts for Coltrane_40:
(Start: 215 @27441 has 12 MA's), (Start: 217 @27444 has 68 MA's), (220, 27447), (Start: 273 @27516 has 1 MA's), (448, 27825), (473, 27879), (585, 28044), (626, 28119), (637, 28140), (784, 28494), (803, 28554), (823, 28605), (845, 28671), (855, 28707), (898, 28800), (973, 28971), (1009, 29043), (1038, 29124), (1065, 29199), (1066, 29202), (1079, 29223), (1108, 29292),

Gene: Commander_45 Start: 31569, Stop: 29743, Start Num: 228
Candidate Starts for Commander_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: Community_43 Start: 31334, Stop: 33199, Start Num: 228
Candidate Starts for Community_43:
(Start: 228 @31334 has 960 MA's), (261, 31382), (386, 31571), (410, 31631), (452, 31721), (572, 31928), (622, 32027), (626, 32036), (633, 32051), (643, 32063), (686, 32141), (707, 32189), (733, 32246), (768, 32327), (803, 32447), (815, 32477), (836, 32534), (855, 32600), (898, 32693), (929, 32765), (977, 32873), (1009, 32936), (1066, 33095), (1071, 33104), (1107, 33182),

Gene: Compostia_58 Start: 54083, Stop: 52266, Start Num: 230
Candidate Starts for Compostia_58:
(110, 54266), (Start: 230 @54083 has 52 MA's), (249, 54053), (366, 53873), (435, 53720), (439, 53708), (452, 53678), (458, 53672), (487, 53609), (489, 53603), (552, 53552), (566, 53525), (569, 53516), (590, 53468), (649, 53363), (694, 53267), (722, 53216), (775, 53072), (787, 53033), (797, 53003), (804, 52976), (810, 52964), (846, 52868), (848, 52862), (851, 52853), (854, 52841), (883, 52769), (900, 52739), (906, 52721), (912, 52712), (939, 52643), (946, 52631), (953, 52610), (992, 52541), (1002, 52526), (1010, 52502), (1013, 52481), (1022, 52463), (1024, 52457), (1038, 52424),

(1040, 52418), (1043, 52400), (1047, 52388), (1054, 52376), (1059, 52364), (1078, 52322), (1093, 52292),

Gene: ConceptII_46 Start: 35338, Stop: 33512, Start Num: 228
Candidate Starts for ConceptII_46:
(Start: 228 @35338 has 960 MA's), (366, 35125), (399, 35062), (410, 35032), (418, 35011), (424, 35005), (430, 34996), (479, 34879), (490, 34852), (570, 34759), (576, 34744), (590, 34711), (621, 34660), (622, 34657), (659, 34591), (680, 34561), (690, 34531), (709, 34486), (729, 34447), (803, 34267), (821, 34219), (836, 34180), (855, 34114), (871, 34075), (895, 34054), (900, 34033), (906, 34015), (935, 33949), (1009, 33799), (1010, 33796), (1018, 33760), (1032, 33736), (1035, 33727), (1039, 33715), (1066, 33640), (1079, 33619),

Gene: Conditioner_11 Start: 9020, Stop: 6774, Start Num: 161
Candidate Starts for Conditioner_11:
(Start: 161 @9020 has 21 MA's), (247, 8903), (257, 8897), (Start: 285 @8852 has 1 MA's), (291, 8843), (388, 8645), (395, 8630), (451, 8477), (457, 8462), (508, 8330), (511, 8309), (515, 8294), (526, 8234), (556, 8153), (571, 8114), (645, 8009), (714, 7856), (753, 7772), (778, 7697), (832, 7535), (841, 7502), (844, 7490), (857, 7442), (877, 7364), (879, 7355), (910, 7265), (923, 7241), (935, 7211), (970, 7130), (1019, 6992), (1033, 6956), (1035, 6947), (1053, 6899), (1062, 6872), (1066, 6860), (1073, 6848),

Gene: Connomayer_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Connomayer_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Conquerage_45 Start: 31513, Stop: 29720, Start Num: 228
Candidate Starts for Conquerage_45:
(Start: 228 @31513 has 960 MA's), (235, 31504), (263, 31462), (342, 31342), (343, 31339), (370, 31291), (400, 31231), (411, 31201), (415, 31189), (424, 31177), (490, 31024), (570, 30931), (643, 30793), (659, 30763), (733, 30604), (742, 30592), (764, 30565), (798, 30457), (803, 30436), (851, 30301), (855, 30283), (900, 30202), (919, 30160), (949, 30085), (955, 30064), (990, 30010), (1009, 29968), (1042, 29866), (1066, 29809), (1073, 29797), (1079, 29788),

Gene: Conspiracy_38 Start: 30346, Stop: 28502, Start Num: 228
Candidate Starts for Conspiracy_38:
(Start: 228 @30346 has 960 MA's), (263, 30295), (304, 30235), (343, 30172), (360, 30142), (362, 30139), (396, 30082), (399, 30070), (410, 30040), (424, 30013), (465, 29911), (473, 29896), (490, 29860), (556, 29800), (570, 29764), (590, 29716), (637, 29632), (643, 29626), (685, 29554), (696, 29521), (703, 29506), (709, 29494), (761, 29395), (803, 29260), (815, 29230), (821, 29212), (823, 29209), (836, 29173), (840, 29164), (845, 29143), (848, 29134), (855, 29107), (856, 29104), (895, 29047), (900, 29026), (949, 28909), (977, 28855), (982, 28846), (992, 28828), (1022, 28750), (1041, 28693), (1058, 28657), (1066, 28633), (1073, 28621),

Gene: Convict_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for Convict_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (433, 28661), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (726, 28067), (749, 28013), (758, 27992), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680),

(877, 27674), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Coog_38 Start: 30444, Stop: 28579, Start Num: 228
Candidate Starts for Coog_38:
(Start: 228 @30444 has 960 MA's), (263, 30393), (304, 30333), (343, 30270), (360, 30240), (362, 30237), (396, 30180), (399, 30168), (410, 30138), (424, 30111), (490, 29958), (570, 29862), (590, 29814), (637, 29730), (643, 29724), (660, 29691), (685, 29652), (696, 29619), (703, 29604), (709, 29592), (761, 29493), (803, 29358), (815, 29328), (821, 29310), (823, 29307), (836, 29271), (840, 29262), (847, 29235), (855, 29205), (871, 29166), (900, 29124), (906, 29106), (929, 29058), (949, 29007), (977, 28953), (982, 28944), (992, 28926), (1013, 28866), (1022, 28848), (1058, 28755), (1066, 28731), (1073, 28719), (1115, 28614),

Gene: Cookiedough_45 Start: 29639, Stop: 27798, Start Num: 228
Candidate Starts for Cookiedough_45:
(Start: 228 @29639 has 960 MA's), (360, 29435), (399, 29360), (400, 29357), (410, 29330), (415, 29315), (424, 29303), (448, 29252), (485, 29162), (490, 29150), (570, 29057), (585, 29018), (595, 29000), (607, 28985), (643, 28919), (660, 28886), (663, 28883), (710, 28781), (742, 28721), (778, 28637), (803, 28556), (835, 28472), (836, 28469), (840, 28460), (847, 28433), (855, 28403), (895, 28343), (906, 28304), (1009, 28088), (1010, 28085), (1013, 28064), (1066, 27929), (1073, 27917), (1079, 27908), (1082, 27905), (1115, 27812),

Gene: Cooper_54 Start: 53229, Stop: 51376, Start Num: 182
Candidate Starts for Cooper_54:
(44, 53559), (79, 53439), (Start: 163 @53247 has 29 MA's), (Start: 182 @53229 has 33 MA's), (Start: 217 @53184 has 68 MA's), (Start: 232 @53175 has 2 MA's), (249, 53148), (261, 53133), (274, 53112), (324, 53025), (336, 53007), (386, 52920), (398, 52893), (402, 52878), (436, 52812), (449, 52782), (452, 52773), (457, 52770), (458, 52767), (467, 52740), (552, 52647), (560, 52629), (569, 52611), (573, 52599), (585, 52572), (643, 52470), (648, 52461), (649, 52458), (664, 52428), (775, 52167), (776, 52164), (787, 52128), (796, 52104), (804, 52071), (846, 51963), (848, 51957), (851, 51948), (900, 51849), (906, 51831), (939, 51753), (946, 51741), (953, 51720), (955, 51711), (992, 51651), (1007, 51624), (1013, 51591), (1022, 51573), (1024, 51567), (1040, 51528), (1042, 51513), (1043, 51510), (1047, 51498), (1059, 51474), (1078, 51432), (1082, 51426), (1093, 51402), (1100, 51381),

Gene: CoraRita_38 Start: 28634, Stop: 26769, Start Num: 301
Candidate Starts for CoraRita_38:
(Start: 241 @28721 has 3 MA's), (Start: 243 @28718 has 1 MA's), (Start: 301 @28634 has 153 MA's), (Start: 305 @28625 has 5 MA's), (353, 28520), (360, 28511), (378, 28481), (380, 28478), (435, 28358), (439, 28346), (442, 28340), (483, 28235), (494, 28208), (582, 28067), (585, 28061), (586, 28058), (590, 28046), (606, 28019), (607, 28016), (614, 28001), (618, 27995), (621, 27989), (638, 27956), (701, 27827), (726, 27767), (847, 27452), (850, 27443), (851, 27440), (855, 27422), (873, 27380), (877, 27374), (879, 27365), (888, 27350), (908, 27293), (974, 27134), (989, 27104), (992, 27095), (1010, 27035), (1013, 27011), (1028, 26972), (1040, 26939), (1044, 26927), (1068, 26867),

Gene: Corn21_11 Start: 9047, Stop: 6801, Start Num: 161
Candidate Starts for Corn21_11:
(Start: 161 @9047 has 21 MA's), (247, 8930), (257, 8924), (Start: 285 @8879 has 1 MA's), (323, 8801), (395, 8657), (451, 8504), (508, 8357), (511, 8336), (515, 8321), (526, 8261), (556, 8180), (571, 8141), (645, 8036), (714, 7883), (753, 7799), (778, 7724), (841, 7529), (844, 7517), (857, 7469), (877, 7391), (879, 7382), (910, 7292), (923, 7268), (935, 7238), (970, 7157), (1019, 7019), (1033, 6983), (1035, 6974), (1053, 6926), (1066, 6887), (1073, 6875),

Gene: Cornbread_60 Start: 54072, Stop: 52213, Start Num: 190

Candidate Starts for Cornbread_60:
(Start: 173 @54096 has 3 MA's), (Start: 190 @54072 has 336 MA's), (Start: 222 @54048 has 3 MA's), (Start: 232 @54042 has 2 MA's), (261, 54000), (274, 53979), (336, 53865), (339, 53859), (355, 53829), (390, 53769), (398, 53748), (416, 53694), (429, 53682), (436, 53664), (440, 53652), (487, 53547), (552, 53490), (569, 53454), (573, 53442), (583, 53418), (590, 53406), (601, 53388), (611, 53370), (622, 53352), (643, 53313), (648, 53304), (649, 53301), (651, 53298), (796, 52941), (804, 52908), (812, 52887), (848, 52794), (851, 52785), (877, 52722), (900, 52686), (901, 52683), (906, 52668), (939, 52590), (946, 52578), (953, 52557), (976, 52518), (1013, 52428), (1022, 52410), (1024, 52404), (1032, 52389), (1040, 52365), (1042, 52350), (1043, 52347), (1047, 52335), (1059, 52311), (1082, 52263), (1093, 52239),

Gene: Cornobble_60 Start: 54040, Stop: 52181, Start Num: 190
Candidate Starts for Cornobble_60:
(Start: 173 @54064 has 3 MA's), (Start: 190 @54040 has 336 MA's), (Start: 222 @54016 has 3 MA's), (Start: 232 @54010 has 2 MA's), (261, 53968), (274, 53947), (336, 53833), (339, 53827), (355, 53797), (390, 53737), (398, 53716), (416, 53662), (429, 53650), (436, 53632), (440, 53620), (487, 53515), (552, 53458), (569, 53422), (573, 53410), (583, 53386), (590, 53374), (601, 53356), (611, 53338), (622, 53320), (643, 53281), (648, 53272), (649, 53269), (651, 53266), (796, 52909), (804, 52876), (812, 52855), (848, 52762), (851, 52753), (877, 52690), (900, 52654), (901, 52651), (906, 52636), (939, 52558), (946, 52546), (953, 52525), (976, 52486), (1013, 52396), (1022, 52378), (1024, 52372), (1032, 52357), (1040, 52333), (1042, 52318), (1043, 52315), (1047, 52303), (1059, 52279), (1082, 52231), (1093, 52207),

Gene: Corofin_58 Start: 53707, Stop: 51890, Start Num: 230
Candidate Starts for Corofin_58:
(110, 53890), (Start: 230 @53707 has 52 MA's), (249, 53677), (366, 53497), (435, 53344), (439, 53332), (452, 53302), (458, 53296), (487, 53233), (489, 53227), (552, 53176), (569, 53140), (590, 53092), (649, 52987), (694, 52891), (722, 52840), (775, 52696), (787, 52657), (797, 52627), (804, 52600), (810, 52588), (846, 52492), (848, 52486), (851, 52477), (854, 52465), (883, 52393), (900, 52363), (906, 52345), (912, 52336), (939, 52267), (946, 52255), (953, 52234), (992, 52165), (1002, 52150), (1010, 52126), (1013, 52105), (1022, 52087), (1024, 52081), (1038, 52048), (1040, 52042), (1043, 52024), (1047, 52012), (1054, 52000), (1059, 51988), (1078, 51946), (1093, 51916),

Gene: Corvo_45 Start: 35201, Stop: 33375, Start Num: 228
Candidate Starts for Corvo_45:
(Start: 228 @35201 has 960 MA's), (366, 34988), (373, 34973), (410, 34895), (418, 34874), (424, 34868), (430, 34859), (479, 34742), (490, 34715), (570, 34622), (576, 34607), (583, 34586), (590, 34574), (621, 34523), (622, 34520), (659, 34454), (680, 34424), (690, 34394), (709, 34349), (729, 34310), (803, 34130), (821, 34082), (836, 34043), (855, 33977), (871, 33938), (895, 33917), (900, 33896), (906, 33878), (935, 33812), (1009, 33662), (1010, 33659), (1018, 33623), (1032, 33599), (1035, 33590), (1039, 33578), (1066, 33503), (1079, 33482),

Gene: CosmicSans_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for CosmicSans_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (710, 27261), (729, 27225), (803, 27045), (821, 26997), (855, 26892), (856, 26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1079, 26397), (1094, 26367), (1100, 26349),

Gene: Cosmolli16_61 Start: 54750, Stop: 52891, Start Num: 190
Candidate Starts for Cosmolli16_61:

(Start: 173 @54774 has 3 MA's), (Start: 190 @54750 has 336 MA's), (Start: 222 @54726 has 3 MA's), (Start: 232 @54720 has 2 MA's), (261, 54678), (274, 54657), (336, 54543), (339, 54537), (355, 54507), (390, 54447), (398, 54426), (416, 54372), (429, 54360), (436, 54342), (440, 54330), (487, 54225), (552, 54168), (569, 54132), (573, 54120), (585, 54093), (611, 54048), (622, 54030), (643, 53991), (648, 53982), (649, 53979), (651, 53976), (796, 53619), (804, 53586), (812, 53565), (848, 53472), (851, 53463), (877, 53400), (900, 53364), (901, 53361), (906, 53346), (939, 53268), (946, 53256), (953, 53235), (976, 53196), (1013, 53106), (1022, 53088), (1024, 53082), (1032, 53067), (1040, 53043), (1042, 53028), (1043, 53025), (1047, 53013), (1059, 52989), (1082, 52941), (1093, 52917),

Gene: Craff_63 Start: 54995, Stop: 53136, Start Num: 190
Candidate Starts for Craff_63:
(Start: 173 @55019 has 3 MA's), (Start: 190 @54995 has 336 MA's), (Start: 222 @54971 has 3 MA's), (Start: 232 @54965 has 2 MA's), (261, 54923), (274, 54902), (336, 54788), (339, 54782), (355, 54752), (390, 54692), (398, 54671), (416, 54617), (429, 54605), (436, 54587), (440, 54575), (487, 54470), (552, 54413), (569, 54377), (573, 54365), (585, 54338), (601, 54311), (611, 54293), (622, 54275), (643, 54236), (648, 54227), (649, 54224), (796, 53864), (804, 53831), (812, 53810), (848, 53717), (851, 53708), (877, 53645), (901, 53606), (906, 53591), (939, 53513), (946, 53501), (953, 53480), (976, 53441), (1010, 53372), (1013, 53351), (1022, 53333), (1024, 53327), (1032, 53312), (1040, 53288), (1042, 53273), (1043, 53270), (1047, 53258), (1059, 53234), (1082, 53186), (1093, 53162),

Gene: Crewmate_46 Start: 30025, Stop: 31890, Start Num: 228
Candidate Starts for Crewmate_46:
(Start: 228 @30025 has 960 MA's), (261, 30073), (366, 30238), (383, 30256), (410, 30322), (418, 30343), (576, 30628), (626, 30727), (633, 30742), (643, 30754), (686, 30832), (707, 30880), (733, 30937), (768, 31018), (803, 31138), (836, 31225), (853, 31282), (855, 31291), (977, 31564), (1066, 31786),

Gene: Crispicous1_43 Start: 33950, Stop: 32124, Start Num: 228
Candidate Starts for Crispicous1_43:
(Start: 228 @33950 has 960 MA's), (366, 33737), (373, 33722), (399, 33674), (410, 33644), (418, 33623), (424, 33617), (430, 33608), (479, 33491), (490, 33464), (570, 33371), (576, 33356), (590, 33323), (621, 33272), (622, 33269), (659, 33203), (680, 33173), (690, 33143), (709, 33098), (729, 33059), (803, 32879), (821, 32831), (836, 32792), (855, 32726), (871, 32687), (895, 32666), (900, 32645), (906, 32627), (935, 32561), (1009, 32411), (1010, 32408), (1018, 32372), (1032, 32348), (1035, 32339), (1039, 32327), (1045, 32300), (1066, 32252), (1079, 32231),

Gene: CroZenni_42 Start: 29399, Stop: 31273, Start Num: 217
Candidate Starts for CroZenni_42:
(Start: 217 @29399 has 68 MA's), (Start: 273 @29468 has 1 MA's), (Start: 285 @29489 has 1 MA's), (369, 29621), (430, 29735), (436, 29750), (448, 29777), (626, 30071), (741, 30305), (784, 30428), (803, 30488), (806, 30494), (823, 30539), (830, 30554), (833, 30569), (845, 30605), (855, 30641), (898, 30734), (936, 30827), (973, 30905), (1009, 30977), (1018, 31016), (1038, 31058), (1041, 31076), (1058, 31112), (1066, 31136), (1079, 31157),

Gene: Croquant_49 Start: 31851, Stop: 30037, Start Num: 228
Candidate Starts for Croquant_49:
(Start: 228 @31851 has 960 MA's), (257, 31812), (263, 31800), (360, 31647), (369, 31632), (399, 31575), (424, 31518), (430, 31509), (448, 31467), (465, 31416), (490, 31365), (570, 31272), (590, 31224), (595, 31215), (607, 31200), (626, 31161), (643, 31134), (659, 31104), (703, 31011), (732, 30951), (742, 30936), (803, 30780), (836, 30693), (855, 30627), (871, 30588), (901, 30516), (919, 30477), (929, 30453), (935, 30435), (949, 30402), (958, 30375), (992, 30321), (1013, 30261), (1042, 30183), (1066, 30126), (1073, 30114), (1079, 30105),

Gene: Crownjwl_60 Start: 54069, Stop: 52210, Start Num: 190
Candidate Starts for Crownjwl_60:
(Start: 173 @54093 has 3 MA's), (Start: 190 @54069 has 336 MA's), (Start: 222 @54045 has 3 MA's), (Start: 232 @54039 has 2 MA's), (261, 53997), (274, 53976), (336, 53862), (339, 53856), (355, 53826), (390, 53766), (398, 53745), (416, 53691), (429, 53679), (436, 53661), (440, 53649), (487, 53544), (552, 53487), (569, 53451), (573, 53439), (583, 53415), (590, 53403), (601, 53385), (611, 53367), (643, 53310), (648, 53301), (649, 53298), (651, 53295), (761, 53040), (796, 52938), (804, 52905), (812, 52884), (848, 52791), (851, 52782), (877, 52719), (900, 52683), (901, 52680), (906, 52665), (939, 52587), (946, 52575), (953, 52554), (976, 52515), (1013, 52425), (1022, 52407), (1024, 52401), (1032, 52386), (1040, 52362), (1042, 52347), (1043, 52344), (1047, 52332), (1059, 52308), (1082, 52260), (1093, 52236),

Gene: Crucio_44 Start: 31285, Stop: 29498, Start Num: 228
Candidate Starts for Crucio_44:
(84, 31540), (Start: 228 @31285 has 960 MA's), (360, 31081), (362, 31078), (366, 31072), (375, 31057), (384, 31042), (399, 31009), (400, 31006), (410, 30979), (424, 30952), (435, 30931), (448, 30901), (490, 30799), (570, 30706), (590, 30658), (595, 30649), (607, 30634), (643, 30568), (686, 30487), (707, 30439), (709, 30433), (742, 30370), (778, 30295), (803, 30214), (823, 30163), (835, 30130), (836, 30127), (855, 30061), (871, 30022), (895, 30001), (924, 29926), (931, 29908), (949, 29863), (958, 29836), (982, 29800), (990, 29788), (992, 29782), (1009, 29746), (1013, 29722), (1042, 29644), (1066, 29587), (1073, 29575), (1079, 29566),

Gene: CrunchyBoi_12 Start: 8964, Stop: 6715, Start Num: 161
Candidate Starts for CrunchyBoi_12:
(Start: 161 @8964 has 21 MA's), (291, 8787), (316, 8742), (388, 8610), (395, 8595), (442, 8463), (451, 8442), (508, 8295), (511, 8274), (517, 8244), (571, 8079), (645, 7974), (692, 7872), (714, 7821), (723, 7797), (724, 7794), (753, 7713), (778, 7638), (841, 7443), (844, 7431), (857, 7383), (862, 7350), (877, 7305), (879, 7296), (910, 7206), (923, 7182), (970, 7071), (1019, 6933), (1035, 6888), (1062, 6813), (1064, 6810), (1066, 6801), (1073, 6789), (1090, 6750),

Gene: Cuco_38 Start: 30397, Stop: 28532, Start Num: 228
Candidate Starts for Cuco_38:
(Start: 228 @30397 has 960 MA's), (263, 30346), (304, 30286), (343, 30223), (360, 30193), (362, 30190), (396, 30133), (399, 30121), (410, 30091), (424, 30064), (490, 29911), (570, 29815), (590, 29767), (637, 29683), (643, 29677), (660, 29644), (685, 29605), (703, 29557), (709, 29545), (761, 29446), (803, 29311), (815, 29281), (821, 29263), (830, 29245), (836, 29224), (840, 29215), (847, 29188), (855, 29158), (871, 29119), (900, 29077), (906, 29059), (929, 29011), (949, 28960), (977, 28906), (982, 28897), (992, 28879), (1013, 28819), (1022, 28801), (1058, 28708), (1066, 28684), (1073, 28672), (1115, 28567),

Gene: Cueylyss_46 Start: 36237, Stop: 34411, Start Num: 228
Candidate Starts for Cueylyss_46:
(Start: 228 @36237 has 960 MA's), (366, 36024), (373, 36009), (410, 35931), (418, 35910), (424, 35904), (430, 35895), (479, 35778), (490, 35751), (570, 35658), (576, 35643), (621, 35559), (622, 35556), (659, 35490), (680, 35460), (690, 35430), (709, 35385), (729, 35346), (803, 35166), (815, 35136), (821, 35118), (823, 35115), (836, 35079), (855, 35013), (900, 34932), (901, 34929), (935, 34848), (1009, 34698), (1010, 34695), (1018, 34659), (1032, 34635), (1035, 34626), (1039, 34614), (1042, 34596), (1045, 34587), (1066, 34539), (1079, 34518),

Gene: Cullens_48 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for Cullens_48:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590,

31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (732, 30952), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: CupcakePrincess_43 Start: 29585, Stop: 31459, Start Num: 217
Candidate Starts for CupcakePrincess_43:
(Start: 215 @29582 has 12 MA's), (Start: 217 @29585 has 68 MA's), (Start: 273 @29654 has 1 MA's), (Start: 285 @29675 has 1 MA's), (399, 29855), (430, 29921), (448, 29963), (626, 30257), (696, 30392), (741, 30491), (784, 30614), (803, 30674), (806, 30680), (823, 30725), (833, 30755), (845, 30791), (855, 30827), (898, 30920), (936, 31013), (973, 31091), (1009, 31163), (1018, 31202), (1038, 31244), (1041, 31262), (1066, 31322), (1079, 31343),

Gene: Cyan_41 Start: 29677, Stop: 31542, Start Num: 228
Candidate Starts for Cyan_41:
(Start: 228 @29677 has 960 MA's), (261, 29725), (410, 29974), (452, 30064), (572, 30271), (576, 30280), (622, 30370), (626, 30379), (633, 30394), (660, 30439), (686, 30484), (707, 30532), (733, 30589), (768, 30670), (795, 30757), (803, 30790), (815, 30820), (836, 30877), (855, 30943), (898, 31036), (929, 31108), (977, 31216), (1009, 31279), (1013, 31303), (1058, 31414), (1066, 31438), (1071, 31447),

Gene: D29_44 Start: 31153, Stop: 29330, Start Num: 228
Candidate Starts for D29_44:
(Start: 228 @31153 has 960 MA's), (360, 30949), (373, 30925), (384, 30907), (394, 30889), (399, 30874), (400, 30871), (410, 30844), (424, 30817), (448, 30766), (490, 30664), (570, 30571), (590, 30523), (595, 30514), (606, 30502), (607, 30499), (643, 30433), (680, 30373), (729, 30259), (742, 30235), (766, 30196), (803, 30070), (823, 30019), (836, 29983), (855, 29917), (871, 29878), (901, 29809), (919, 29770), (936, 29725), (949, 29695), (982, 29632), (992, 29614), (1013, 29554), (1066, 29419), (1073, 29407), (1079, 29398),

Gene: D32_47 Start: 31153, Stop: 29330, Start Num: 228
Candidate Starts for D32_47:
(Start: 228 @31153 has 960 MA's), (360, 30949), (373, 30925), (384, 30907), (394, 30889), (399, 30874), (400, 30871), (410, 30844), (424, 30817), (448, 30766), (490, 30664), (570, 30571), (590, 30523), (595, 30514), (606, 30502), (607, 30499), (643, 30433), (680, 30373), (729, 30259), (742, 30235), (766, 30196), (803, 30070), (823, 30019), (836, 29983), (855, 29917), (871, 29878), (901, 29809), (919, 29770), (936, 29725), (949, 29695), (982, 29632), (992, 29614), (1013, 29554), (1066, 29419), (1073, 29407), (1079, 29398),

Gene: DBQu4n_47 Start: 31153, Stop: 29330, Start Num: 228
Candidate Starts for DBQu4n_47:
(Start: 228 @31153 has 960 MA's), (360, 30949), (373, 30925), (384, 30907), (394, 30889), (399, 30874), (400, 30871), (410, 30844), (424, 30817), (448, 30766), (490, 30664), (570, 30571), (590, 30523), (595, 30514), (606, 30502), (607, 30499), (643, 30433), (680, 30373), (729, 30259), (742, 30235), (766, 30196), (803, 30070), (823, 30019), (836, 29983), (855, 29917), (871, 29878), (901, 29809), (919, 29770), (936, 29725), (949, 29695), (982, 29632), (990, 29620), (992, 29614), (1013, 29554), (1066, 29419), (1073, 29407), (1079, 29398),

Gene: DD5_44 Start: 35207, Stop: 33381, Start Num: 228
Candidate Starts for DD5_44:
(Start: 228 @35207 has 960 MA's), (366, 34994), (399, 34931), (410, 34901), (424, 34874), (430, 34865), (479, 34748), (490, 34721), (570, 34628), (576, 34613), (621, 34529), (622, 34526), (659, 34460), (680, 34430), (690, 34400), (709, 34355), (729, 34316), (803, 34136), (821, 34088), (836,

34049), (855, 33983), (871, 33944), (895, 33923), (900, 33902), (906, 33884), (935, 33818), (1009, 33668), (1010, 33665), (1018, 33629), (1035, 33596), (1039, 33584), (1066, 33509), (1079, 33488),

Gene: DaHudson_48 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for DaHudson_48:
(137, 31971), (Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: DaVinci_45 Start: 29628, Stop: 27787, Start Num: 228
Candidate Starts for DaVinci_45:
(Start: 228 @29628 has 960 MA's), (360, 29424), (399, 29349), (400, 29346), (410, 29319), (415, 29304), (424, 29292), (448, 29241), (485, 29151), (490, 29139), (570, 29046), (585, 29007), (595, 28989), (607, 28974), (643, 28908), (660, 28875), (663, 28872), (710, 28770), (742, 28710), (778, 28626), (803, 28545), (835, 28461), (836, 28458), (840, 28449), (847, 28422), (855, 28392), (895, 28332), (906, 28293), (1009, 28077), (1010, 28074), (1013, 28053), (1066, 27918), (1073, 27906), (1079, 27897), (1082, 27894), (1115, 27801),

Gene: DaddyDaniels_62 Start: 54528, Stop: 52669, Start Num: 190
Candidate Starts for DaddyDaniels_62:
(Start: 173 @54552 has 3 MA's), (Start: 190 @54528 has 336 MA's), (Start: 222 @54504 has 3 MA's), (Start: 232 @54498 has 2 MA's), (261, 54456), (274, 54435), (336, 54321), (339, 54315), (355, 54285), (390, 54225), (398, 54204), (416, 54150), (429, 54138), (436, 54120), (440, 54108), (487, 54003), (552, 53946), (569, 53910), (573, 53898), (585, 53871), (601, 53844), (611, 53826), (622, 53808), (643, 53769), (648, 53760), (649, 53757), (761, 53499), (796, 53397), (804, 53364), (812, 53343), (848, 53250), (851, 53241), (877, 53178), (900, 53142), (901, 53139), (906, 53124), (939, 53046), (946, 53034), (953, 53013), (976, 52974), (1013, 52884), (1022, 52866), (1024, 52860), (1032, 52845), (1040, 52821), (1042, 52806), (1043, 52803), (1047, 52791), (1059, 52767), (1082, 52719), (1093, 52695),

Gene: Daffy_60 Start: 54033, Stop: 52174, Start Num: 190
Candidate Starts for Daffy_60:
(Start: 173 @54057 has 3 MA's), (Start: 190 @54033 has 336 MA's), (Start: 222 @54009 has 3 MA's), (Start: 232 @54003 has 2 MA's), (261, 53961), (274, 53940), (336, 53826), (339, 53820), (355, 53790), (390, 53730), (398, 53709), (416, 53655), (429, 53643), (436, 53625), (440, 53613), (487, 53508), (552, 53451), (569, 53415), (573, 53403), (585, 53376), (611, 53331), (643, 53274), (648, 53265), (649, 53262), (796, 52902), (804, 52869), (812, 52848), (848, 52755), (851, 52746), (877, 52683), (900, 52647), (901, 52644), (906, 52629), (939, 52551), (946, 52539), (953, 52518), (976, 52479), (1013, 52389), (1022, 52371), (1024, 52365), (1032, 52350), (1040, 52326), (1042, 52311), (1043, 52308), (1047, 52296), (1059, 52272), (1082, 52224), (1093, 52200),

Gene: Daishi_47 Start: 30725, Stop: 28911, Start Num: 228
Candidate Starts for Daishi_47:
(Start: 228 @30725 has 960 MA's), (257, 30686), (263, 30674), (360, 30521), (369, 30506), (399, 30449), (424, 30392), (430, 30383), (448, 30341), (465, 30290), (490, 30239), (552, 30185), (570, 30146), (590, 30098), (607, 30074), (626, 30035), (643, 30008), (659, 29978), (703, 29885), (709, 29873), (732, 29825), (742, 29810), (803, 29654), (823, 29603), (835, 29570), (836, 29567), (855, 29501), (871, 29462), (901, 29390), (919, 29351), (929, 29327), (935, 29309), (949, 29276), (992, 29195), (1013, 29135), (1045, 29048), (1066, 29000), (1073, 28988), (1079, 28979), (1082, 28976),

Gene: Daisy_57 Start: 53240, Stop: 51423, Start Num: 230
Candidate Starts for Daisy_57:
(110, 53423), (Start: 230 @53240 has 52 MA's), (249, 53210), (366, 53030), (435, 52877), (439, 52865), (452, 52835), (458, 52829), (487, 52766), (489, 52760), (552, 52709), (566, 52682), (569, 52673), (590, 52625), (649, 52520), (694, 52424), (722, 52373), (775, 52229), (787, 52190), (797, 52160), (804, 52133), (810, 52121), (846, 52025), (848, 52019), (851, 52010), (854, 51998), (883, 51926), (900, 51896), (906, 51878), (912, 51869), (939, 51800), (946, 51788), (953, 51767), (992, 51698), (1002, 51683), (1010, 51659), (1013, 51638), (1024, 51614), (1038, 51581), (1040, 51575), (1043, 51557), (1047, 51545), (1054, 51533), (1059, 51521), (1078, 51479), (1093, 51449),

Gene: Daka_63 Start: 54549, Stop: 52690, Start Num: 190
Candidate Starts for Daka_63:
(Start: 173 @54573 has 3 MA's), (Start: 190 @54549 has 336 MA's), (Start: 222 @54525 has 3 MA's), (Start: 232 @54519 has 2 MA's), (261, 54477), (274, 54456), (336, 54342), (339, 54336), (355, 54306), (390, 54246), (398, 54225), (416, 54171), (429, 54159), (436, 54141), (440, 54129), (487, 54024), (552, 53967), (569, 53931), (573, 53919), (585, 53892), (611, 53847), (643, 53790), (648, 53781), (649, 53778), (651, 53775), (796, 53418), (804, 53385), (812, 53364), (848, 53271), (851, 53262), (877, 53199), (900, 53163), (901, 53160), (906, 53145), (939, 53067), (946, 53055), (953, 53034), (976, 52995), (1013, 52905), (1022, 52887), (1024, 52881), (1032, 52866), (1040, 52842), (1042, 52827), (1043, 52824), (1047, 52812), (1059, 52788), (1066, 52767), (1082, 52740), (1093, 52716), (1098, 52701),

Gene: Dalmatian_45 Start: 31678, Stop: 29891, Start Num: 228
Candidate Starts for Dalmatian_45:
(Start: 228 @31678 has 960 MA's), (360, 31474), (362, 31471), (366, 31465), (375, 31450), (384, 31435), (399, 31402), (400, 31399), (410, 31372), (424, 31345), (435, 31324), (490, 31192), (570, 31099), (583, 31063), (590, 31051), (595, 31042), (607, 31027), (643, 30961), (686, 30880), (707, 30832), (709, 30826), (742, 30763), (803, 30607), (823, 30556), (835, 30523), (836, 30520), (855, 30454), (871, 30415), (895, 30394), (924, 30319), (929, 30307), (982, 30193), (992, 30175), (1009, 30139), (1013, 30115), (1042, 30037), (1066, 29980), (1073, 29968), (1079, 29959),

Gene: Danforth_42 Start: 30571, Stop: 28727, Start Num: 228
Candidate Starts for Danforth_42:
(119, 30736), (Start: 228 @30571 has 960 MA's), (263, 30520), (343, 30397), (360, 30367), (384, 30328), (399, 30295), (410, 30265), (418, 30244), (424, 30238), (430, 30229), (465, 30136), (480, 30109), (490, 30085), (570, 29989), (574, 29977), (580, 29962), (590, 29941), (595, 29932), (626, 29878), (643, 29851), (670, 29803), (696, 29746), (709, 29719), (733, 29668), (744, 29653), (798, 29506), (803, 29485), (815, 29455), (821, 29437), (823, 29434), (830, 29419), (836, 29398), (840, 29389), (847, 29362), (851, 29350), (855, 29332), (900, 29251), (904, 29239), (929, 29185), (942, 29149), (977, 29080), (990, 29059), (992, 29053), (1010, 29014), (1013, 28993), (1022, 28975), (1066, 28858), (1073, 28846),

Gene: Darrell_46 Start: 31850, Stop: 30057, Start Num: 228
Candidate Starts for Darrell_46:
(Start: 228 @31850 has 960 MA's), (235, 31841), (263, 31799), (304, 31739), (317, 31712), (342, 31679), (343, 31676), (360, 31646), (366, 31637), (371, 31628), (400, 31568), (411, 31538), (415, 31526), (424, 31514), (448, 31463), (490, 31361), (570, 31268), (637, 31136), (659, 31100), (742, 30929), (764, 30902), (767, 30896), (803, 30773), (840, 30677), (847, 30650), (855, 30620), (871, 30581), (897, 30548), (900, 30539), (919, 30497), (949, 30422), (955, 30401), (1009, 30305), (1038, 30224), (1066, 30146), (1073, 30134), (1079, 30125),

Gene: DarthPhader_42 Start: 32266, Stop: 30422, Start Num: 228
Candidate Starts for DarthPhader_42:

(126, 32410), (142, 32383), (Start: 228 @32266 has 960 MA's), (304, 32155), (343, 32092), (360, 32062), (366, 32053), (384, 32020), (399, 31987), (410, 31957), (424, 31930), (435, 31909), (490, 31777), (570, 31684), (595, 31627), (607, 31612), (643, 31546), (670, 31498), (701, 31429), (742, 31348), (766, 31306), (778, 31261), (783, 31243), (803, 31180), (823, 31129), (836, 31093), (855, 31027), (871, 30988), (895, 30967), (900, 30946), (982, 30766), (1009, 30712), (1010, 30709), (1013, 30688), (1038, 30631), (1042, 30610), (1066, 30553), (1073, 30541), (1100, 30484),

Gene: Dashyla_10 Start: 8658, Stop: 6415, Start Num: 163
Candidate Starts for Dashyla_10:
(86, 8826), (123, 8727), (147, 8682), (Start: 163 @8658 has 29 MA's), (247, 8544), (257, 8538), (Start: 285 @8493 has 1 MA's), (388, 8286), (395, 8271), (451, 8118), (508, 7971), (511, 7950), (515, 7935), (526, 7875), (556, 7794), (571, 7755), (645, 7650), (670, 7602), (714, 7497), (753, 7413), (773, 7356), (778, 7338), (802, 7257), (841, 7143), (844, 7131), (857, 7083), (877, 7005), (879, 6996), (910, 6906), (923, 6882), (935, 6852), (970, 6771), (1019, 6633), (1033, 6597), (1035, 6588), (1053, 6540), (1062, 6513), (1066, 6501), (1073, 6489),

Gene: Dati_60 Start: 54564, Stop: 52705, Start Num: 190
Candidate Starts for Dati_60:
(Start: 173 @54588 has 3 MA's), (Start: 190 @54564 has 336 MA's), (Start: 222 @54540 has 3 MA's), (Start: 232 @54534 has 2 MA's), (261, 54492), (274, 54471), (336, 54357), (339, 54351), (355, 54321), (390, 54261), (398, 54240), (416, 54186), (429, 54174), (436, 54156), (440, 54144), (487, 54039), (552, 53982), (569, 53946), (573, 53934), (583, 53910), (590, 53898), (601, 53880), (611, 53862), (622, 53844), (643, 53805), (648, 53796), (649, 53793), (651, 53790), (796, 53433), (804, 53400), (812, 53379), (848, 53286), (851, 53277), (877, 53214), (900, 53178), (901, 53175), (906, 53160), (939, 53082), (946, 53070), (953, 53049), (976, 53010), (1013, 52920), (1022, 52902), (1024, 52896), (1032, 52881), (1040, 52857), (1042, 52842), (1043, 52839), (1047, 52827), (1059, 52803), (1082, 52755), (1093, 52731),

Gene: Datway_44 Start: 31508, Stop: 29679, Start Num: 228
Candidate Starts for Datway_44:
(Start: 228 @31508 has 960 MA's), (263, 31457), (278, 31427), (384, 31265), (394, 31247), (399, 31232), (424, 31175), (430, 31166), (480, 31046), (490, 31022), (544, 30980), (570, 30929), (592, 30881), (607, 30860), (626, 30821), (654, 30776), (657, 30770), (696, 30689), (707, 30668), (729, 30623), (798, 30458), (803, 30437), (855, 30284), (871, 30245), (901, 30173), (906, 30158), (919, 30134), (926, 30116), (929, 30110), (931, 30104), (1013, 29903), (1066, 29768), (1073, 29756), (1079, 29747),

Gene: Dave_39 Start: 28922, Stop: 27057, Start Num: 301
Candidate Starts for Dave_39:
(Start: 241 @29009 has 3 MA's), (Start: 243 @29006 has 1 MA's), (Start: 301 @28922 has 153 MA's), (Start: 305 @28913 has 5 MA's), (353, 28808), (360, 28799), (378, 28769), (380, 28766), (435, 28646), (439, 28634), (442, 28628), (483, 28523), (494, 28496), (582, 28355), (585, 28349), (586, 28346), (590, 28334), (606, 28307), (607, 28304), (614, 28289), (618, 28283), (621, 28277), (638, 28244), (701, 28115), (726, 28055), (784, 27890), (847, 27740), (850, 27731), (851, 27728), (855, 27710), (873, 27668), (877, 27662), (879, 27653), (888, 27638), (908, 27581), (974, 27422), (989, 27392), (992, 27383), (1010, 27323), (1013, 27299), (1028, 27260), (1040, 27227), (1044, 27215), (1068, 27155),

Gene: Deano_44 Start: 31578, Stop: 29752, Start Num: 228
Candidate Starts for Deano_44:
(Start: 228 @31578 has 960 MA's), (Start: 241 @31557 has 3 MA's), (263, 31527), (278, 31497), (384, 31335), (394, 31317), (424, 31245), (430, 31236), (480, 31116), (490, 31092), (570, 30999), (592, 30951), (607, 30930), (626, 30891), (696, 30759), (707, 30738), (729, 30693), (733, 30681), (798,

30528), (803, 30507), (847, 30384), (855, 30354), (871, 30315), (900, 30249), (901, 30246), (906, 30231), (919, 30207), (929, 30183), (1013, 29976), (1066, 29841), (1073, 29829), (1079, 29820),

Gene: Deenasa_58 Start: 54545, Stop: 52728, Start Num: 230
Candidate Starts for Deenasa_58:
(110, 54728), (Start: 230 @54545 has 52 MA's), (249, 54515), (366, 54335), (435, 54182), (439, 54170), (452, 54140), (458, 54134), (487, 54071), (489, 54065), (552, 54014), (566, 53987), (569, 53978), (590, 53930), (649, 53825), (694, 53729), (722, 53678), (775, 53534), (787, 53495), (797, 53465), (804, 53438), (810, 53426), (846, 53330), (848, 53324), (851, 53315), (854, 53303), (883, 53231), (900, 53201), (906, 53183), (912, 53174), (939, 53105), (946, 53093), (953, 53072), (992, 53003), (1002, 52988), (1010, 52964), (1022, 52925), (1024, 52919), (1040, 52880), (1043, 52862), (1047, 52850), (1059, 52826), (1093, 52754),

Gene: DeerParkTS_42 Start: 30812, Stop: 29025, Start Num: 228
Candidate Starts for DeerParkTS_42:
(Start: 228 @30812 has 960 MA's), (362, 30605), (366, 30599), (375, 30584), (384, 30569), (399, 30536), (410, 30506), (424, 30479), (435, 30458), (448, 30428), (490, 30326), (570, 30233), (590, 30185), (595, 30176), (607, 30161), (643, 30095), (660, 30062), (686, 30014), (707, 29966), (709, 29960), (778, 29822), (803, 29741), (823, 29690), (835, 29657), (836, 29654), (855, 29588), (871, 29549), (895, 29528), (924, 29453), (929, 29441), (958, 29363), (982, 29327), (992, 29309), (1009, 29273), (1013, 29249), (1038, 29192), (1042, 29171), (1066, 29114), (1073, 29102), (1079, 29093),

Gene: DekHockey33_47 Start: 30182, Stop: 28392, Start Num: 228
Candidate Starts for DekHockey33_47:
(Start: 228 @30182 has 960 MA's), (343, 30008), (399, 29903), (400, 29900), (410, 29873), (424, 29846), (448, 29795), (490, 29693), (570, 29600), (587, 29555), (590, 29552), (595, 29543), (686, 29381), (696, 29354), (707, 29333), (709, 29327), (768, 29228), (778, 29189), (796, 29138), (803, 29108), (823, 29057), (835, 29024), (845, 28991), (847, 28985), (855, 28955), (895, 28895), (900, 28874), (919, 28832), (930, 28805), (935, 28790), (977, 28703), (1009, 28640), (1010, 28637), (1066, 28481), (1073, 28469), (1082, 28457),

Gene: DelRivs_59 Start: 54011, Stop: 52152, Start Num: 190
Candidate Starts for DelRivs_59:
(Start: 173 @54035 has 3 MA's), (Start: 190 @54011 has 336 MA's), (Start: 222 @53987 has 3 MA's), (Start: 232 @53981 has 2 MA's), (261, 53939), (274, 53918), (336, 53804), (339, 53798), (355, 53768), (390, 53708), (398, 53687), (416, 53633), (429, 53621), (436, 53603), (440, 53591), (487, 53486), (552, 53429), (569, 53393), (573, 53381), (583, 53357), (590, 53345), (601, 53327), (611, 53309), (622, 53291), (643, 53252), (648, 53243), (649, 53240), (651, 53237), (796, 52880), (804, 52847), (812, 52826), (848, 52733), (851, 52724), (877, 52661), (900, 52625), (901, 52622), (906, 52607), (939, 52529), (946, 52517), (953, 52496), (976, 52457), (1013, 52367), (1022, 52349), (1024, 52343), (1032, 52328), (1040, 52304), (1042, 52289), (1043, 52286), (1047, 52274), (1059, 52250), (1082, 52202), (1093, 52178),

Gene: Deloris_43 Start: 30897, Stop: 29110, Start Num: 228
Candidate Starts for Deloris_43:
(Start: 228 @30897 has 960 MA's), (360, 30693), (362, 30690), (366, 30684), (375, 30669), (384, 30654), (399, 30621), (400, 30618), (410, 30591), (424, 30564), (435, 30543), (448, 30513), (490, 30411), (570, 30318), (573, 30309), (590, 30270), (595, 30261), (607, 30246), (643, 30180), (686, 30099), (707, 30051), (709, 30045), (778, 29907), (803, 29826), (823, 29775), (835, 29742), (836, 29739), (855, 29673), (871, 29634), (895, 29613), (924, 29538), (931, 29520), (949, 29475), (958, 29448), (982, 29412), (992, 29394), (1009, 29358), (1013, 29334), (1038, 29277), (1066, 29199), (1073, 29187),

Gene: Delphidian_39 Start: 28933, Stop: 27068, Start Num: 301
Candidate Starts for Delphidian_39:
(Start: 241 @29020 has 3 MA's), (Start: 301 @28933 has 153 MA's), (Start: 305 @28924 has 5 MA's), (353, 28819), (360, 28810), (378, 28780), (380, 28777), (435, 28657), (439, 28645), (442, 28639), (483, 28534), (494, 28507), (582, 28366), (585, 28360), (586, 28357), (590, 28345), (606, 28318), (607, 28315), (614, 28300), (618, 28294), (621, 28288), (638, 28255), (701, 28126), (726, 28066), (847, 27751), (850, 27742), (851, 27739), (855, 27721), (873, 27679), (877, 27673), (879, 27664), (888, 27649), (908, 27592), (974, 27433), (989, 27403), (992, 27394), (1010, 27334), (1013, 27310), (1028, 27271), (1040, 27238), (1044, 27226), (1068, 27166),

Gene: DelvinSonDorr_44 Start: 29641, Stop: 27800, Start Num: 228
Candidate Starts for DelvinSonDorr_44:
(Start: 228 @29641 has 960 MA's), (360, 29437), (399, 29362), (400, 29359), (410, 29332), (415, 29317), (424, 29305), (448, 29254), (485, 29164), (490, 29152), (570, 29059), (585, 29020), (595, 29002), (607, 28987), (643, 28921), (660, 28888), (663, 28885), (710, 28783), (742, 28723), (778, 28639), (803, 28558), (835, 28474), (836, 28471), (840, 28462), (847, 28435), (855, 28405), (895, 28345), (906, 28306), (1009, 28090), (1010, 28087), (1013, 28066), (1066, 27931), (1073, 27919), (1079, 27910), (1082, 27907), (1115, 27814),

Gene: Den3_39 Start: 28939, Stop: 27074, Start Num: 301
Candidate Starts for Den3_39:
(Start: 241 @29026 has 3 MA's), (Start: 243 @29023 has 1 MA's), (288, 28954), (Start: 301 @28939 has 153 MA's), (Start: 305 @28930 has 5 MA's), (353, 28825), (360, 28816), (378, 28786), (380, 28783), (435, 28663), (439, 28651), (442, 28645), (483, 28540), (494, 28513), (582, 28372), (586, 28363), (590, 28351), (606, 28324), (607, 28321), (614, 28306), (618, 28300), (621, 28294), (638, 28261), (726, 28072), (847, 27757), (850, 27748), (851, 27745), (855, 27727), (873, 27685), (877, 27679), (888, 27655), (908, 27598), (974, 27439), (989, 27409), (992, 27400), (1010, 27340), (1013, 27316), (1028, 27277), (1040, 27244), (1044, 27232), (1068, 27172),

Gene: Derpp_60 Start: 54131, Stop: 52272, Start Num: 190
Candidate Starts for Derpp_60:
(Start: 173 @54155 has 3 MA's), (Start: 190 @54131 has 336 MA's), (Start: 222 @54107 has 3 MA's), (Start: 232 @54101 has 2 MA's), (261, 54059), (274, 54038), (336, 53924), (339, 53918), (355, 53888), (390, 53828), (398, 53807), (416, 53753), (429, 53741), (436, 53723), (440, 53711), (487, 53606), (552, 53549), (569, 53513), (573, 53501), (583, 53477), (590, 53465), (601, 53447), (611, 53429), (622, 53411), (643, 53372), (648, 53363), (649, 53360), (651, 53357), (761, 53102), (796, 53000), (804, 52967), (812, 52946), (848, 52853), (851, 52844), (877, 52781), (900, 52745), (901, 52742), (906, 52727), (939, 52649), (946, 52637), (953, 52616), (976, 52577), (1013, 52487), (1022, 52469), (1024, 52463), (1032, 52448), (1040, 52424), (1042, 52409), (1043, 52406), (1047, 52394), (1059, 52370), (1066, 52349), (1082, 52322), (1093, 52298), (1098, 52283),

Gene: Devonte_57 Start: 53319, Stop: 51502, Start Num: 230
Candidate Starts for Devonte_57:
(110, 53502), (Start: 230 @53319 has 52 MA's), (249, 53289), (366, 53109), (435, 52956), (439, 52944), (452, 52914), (458, 52908), (487, 52845), (489, 52839), (552, 52788), (566, 52761), (569, 52752), (590, 52704), (649, 52599), (694, 52503), (722, 52452), (775, 52308), (787, 52269), (797, 52239), (804, 52212), (810, 52200), (846, 52104), (848, 52098), (851, 52089), (854, 52077), (883, 52005), (900, 51975), (906, 51957), (912, 51948), (939, 51879), (946, 51867), (953, 51846), (992, 51777), (1002, 51762), (1010, 51738), (1013, 51717), (1022, 51699), (1024, 51693), (1038, 51660), (1040, 51654), (1043, 51636), (1047, 51624), (1054, 51612), (1059, 51600), (1078, 51558), (1093, 51528),

Gene: Dewdrop_95 Start: 58518, Stop: 60557, Start Num: 194

Candidate Starts for Dewdrop_95:
(Start: 194 @58518 has 4 MA's), (270, 58629), (272, 58632), (286, 58659), (313, 58716), (335, 58752), (349, 58791), (380, 58845), (387, 58857), (391, 58866), (404, 58902), (435, 58962), (440, 58977), (446, 58989), (461, 59034), (472, 59064), (552, 59178), (590, 59271), (592, 59274), (597, 59283), (607, 59301), (661, 59409), (689, 59463), (695, 59475), (722, 59541), (754, 59610), (815, 59763), (847, 59847), (855, 59877), (907, 60009), (908, 60012), (921, 60048), (933, 60081), (949, 60120), (1010, 60270), (1013, 60294), (1015, 60300), (1020, 60315), (1032, 60345), (1055, 60423), (1063, 60444), (1076, 60474), (1096, 60516), (1108, 60552),

Gene: Dexes_45 Start: 35367, Stop: 33580, Start Num: 228
Candidate Starts for Dexes_45:
(Start: 228 @35367 has 960 MA's), (366, 35154), (373, 35139), (399, 35091), (410, 35061), (418, 35040), (424, 35034), (430, 35025), (479, 34908), (490, 34881), (570, 34788), (576, 34773), (590, 34740), (621, 34689), (622, 34686), (659, 34620), (680, 34590), (690, 34560), (709, 34515), (729, 34476), (803, 34296), (821, 34248), (823, 34245), (836, 34209), (855, 34143), (897, 34071), (900, 34062), (935, 33978), (977, 33891), (1032, 33765), (1036, 33753), (1066, 33669), (1069, 33663),

Gene: Dhanush_45 Start: 31573, Stop: 29747, Start Num: 228
Candidate Starts for Dhanush_45:
(Start: 228 @31573 has 960 MA's), (Start: 241 @31552 has 3 MA's), (263, 31522), (278, 31492), (384, 31330), (394, 31312), (424, 31240), (430, 31231), (480, 31111), (490, 31087), (570, 30994), (592, 30946), (607, 30925), (626, 30886), (696, 30754), (707, 30733), (729, 30688), (733, 30676), (798, 30523), (803, 30502), (847, 30379), (855, 30349), (871, 30310), (900, 30244), (901, 30241), (906, 30226), (919, 30202), (929, 30178), (1013, 29971), (1066, 29836), (1073, 29824), (1079, 29815),

Gene: Dice_59 Start: 54016, Stop: 52157, Start Num: 190
Candidate Starts for Dice_59:
(Start: 173 @54040 has 3 MA's), (Start: 190 @54016 has 336 MA's), (Start: 222 @53992 has 3 MA's), (Start: 232 @53986 has 2 MA's), (261, 53944), (274, 53923), (336, 53809), (339, 53803), (355, 53773), (390, 53713), (398, 53692), (416, 53638), (429, 53626), (436, 53608), (440, 53596), (487, 53491), (552, 53434), (569, 53398), (573, 53386), (585, 53359), (601, 53332), (611, 53314), (622, 53296), (643, 53257), (648, 53248), (649, 53245), (796, 52885), (804, 52852), (812, 52831), (848, 52738), (851, 52729), (877, 52666), (900, 52630), (901, 52627), (906, 52612), (939, 52534), (946, 52522), (953, 52501), (976, 52462), (1013, 52372), (1022, 52354), (1024, 52348), (1032, 52333), (1040, 52309), (1042, 52294), (1043, 52291), (1047, 52279), (1059, 52255), (1082, 52207), (1093, 52183),

Gene: DickRichards_41 Start: 29838, Stop: 31712, Start Num: 217
Candidate Starts for DickRichards_41:
(Start: 217 @29838 has 68 MA's), (Start: 273 @29907 has 1 MA's), (Start: 285 @29928 has 1 MA's), (430, 30174), (436, 30189), (448, 30216), (626, 30510), (696, 30645), (741, 30744), (784, 30867), (803, 30927), (806, 30933), (823, 30978), (830, 30993), (833, 31008), (845, 31044), (855, 31080), (898, 31173), (936, 31266), (973, 31344), (1009, 31416), (1018, 31455), (1038, 31497), (1041, 31515), (1058, 31551), (1066, 31575), (1079, 31596),

Gene: Didgeridoo_45 Start: 30205, Stop: 32079, Start Num: 217
Candidate Starts for Didgeridoo_45:
(Start: 217 @30205 has 68 MA's), (Start: 273 @30274 has 1 MA's), (Start: 285 @30295 has 1 MA's), (430, 30541), (436, 30556), (473, 30637), (626, 30877), (741, 31111), (783, 31231), (784, 31234), (803, 31294), (830, 31360), (833, 31375), (845, 31411), (855, 31447), (898, 31540), (973, 31711), (975, 31714), (1009, 31783), (1018, 31822), (1038, 31864), (1041, 31882), (1058, 31918), (1066, 31942), (1079, 31963),

Gene: Dieselweasel_49 Start: 31855, Stop: 30041, Start Num: 228

Candidate Starts for Dieselweasel_49:
(Start: 228 @31855 has 960 MA's), (257, 31816), (263, 31804), (360, 31651), (369, 31636), (399, 31579), (424, 31522), (430, 31513), (448, 31471), (465, 31420), (490, 31369), (570, 31276), (590, 31228), (595, 31219), (607, 31204), (626, 31165), (643, 31138), (659, 31108), (703, 31015), (732, 30955), (742, 30940), (803, 30784), (836, 30697), (855, 30631), (871, 30592), (901, 30520), (919, 30481), (929, 30457), (935, 30439), (949, 30406), (958, 30379), (992, 30325), (1013, 30265), (1042, 30187), (1066, 30130), (1073, 30118), (1079, 30109),

Gene: DigitDog_58 Start: 54425, Stop: 52578, Start Num: 174
Candidate Starts for DigitDog_58:
(21, 54914), (22, 54908), (26, 54857), (29, 54839), (54, 54701), (129, 54491), (174, 54425), (231, 54377), (249, 54350), (283, 54299), (364, 54179), (390, 54131), (436, 54029), (457, 53987), (472, 53951), (487, 53921), (569, 53828), (583, 53792), (590, 53780), (601, 53762), (649, 53675), (701, 53570), (748, 53447), (776, 53381), (780, 53363), (797, 53315), (804, 53288), (846, 53180), (848, 53174), (851, 53165), (856, 53144), (883, 53081), (901, 53048), (906, 53033), (933, 52973), (939, 52955), (946, 52943), (953, 52922), (955, 52913), (957, 52910), (965, 52898), (1013, 52793), (1022, 52775), (1024, 52769), (1040, 52730), (1042, 52715), (1043, 52712), (1054, 52688), (1059, 52676), (1060, 52673), (1093, 52604),

Gene: Dignity_46 Start: 31741, Stop: 29954, Start Num: 228
Candidate Starts for Dignity_46:
(Start: 228 @31741 has 960 MA's), (362, 31534), (366, 31528), (375, 31513), (384, 31498), (400, 31462), (410, 31435), (424, 31408), (435, 31387), (490, 31255), (570, 31162), (590, 31114), (595, 31105), (607, 31090), (643, 31024), (686, 30943), (707, 30895), (709, 30889), (803, 30670), (823, 30619), (835, 30586), (836, 30583), (855, 30517), (871, 30478), (895, 30457), (924, 30382), (929, 30370), (949, 30319), (982, 30256), (992, 30238), (1009, 30202), (1013, 30178), (1042, 30100), (1066, 30043), (1073, 30031), (1079, 30022),

Gene: Dina_44 Start: 31366, Stop: 33348, Start Num: 172
Candidate Starts for Dina_44:
(81, 31174), (132, 31309), (Start: 172 @31366 has 7 MA's), (Start: 186 @31381 has 1 MA's), (191, 31387), (274, 31501), (321, 31567), (386, 31684), (442, 31834), (495, 31963), (503, 31981), (508, 31999), (565, 32173), (570, 32188), (657, 32266), (675, 32299), (741, 32479), (770, 32548), (809, 32674), (841, 32776), (844, 32785), (849, 32800), (890, 32953), (927, 33049), (934, 33070), (981, 33169), (1013, 33268),

Gene: Dinger_36 Start: 28097, Stop: 26313, Start Num: 228
Candidate Starts for Dinger_36:
(Start: 228 @28097 has 960 MA's), (342, 27926), (379, 27863), (398, 27824), (399, 27821), (415, 27776), (424, 27764), (430, 27755), (490, 27611), (570, 27518), (626, 27407), (643, 27380), (696, 27275), (709, 27248), (729, 27209), (803, 27029), (821, 26981), (855, 26876), (856, 26873), (895, 26816), (900, 26795), (922, 26747), (951, 26672), (990, 26603), (1009, 26561), (1010, 26558), (1013, 26537), (1018, 26522), (1042, 26459), (1066, 26402), (1073, 26390), (1094, 26351), (1100, 26333),

Gene: Dingo_59 Start: 53575, Stop: 51716, Start Num: 190
Candidate Starts for Dingo_59:
(Start: 173 @53599 has 3 MA's), (Start: 190 @53575 has 336 MA's), (Start: 222 @53551 has 3 MA's), (Start: 232 @53545 has 2 MA's), (249, 53518), (261, 53503), (274, 53482), (336, 53368), (339, 53362), (355, 53332), (390, 53272), (398, 53251), (416, 53197), (429, 53185), (436, 53167), (440, 53155), (487, 53050), (552, 52993), (569, 52957), (573, 52945), (585, 52918), (590, 52909), (611, 52873), (643, 52816), (648, 52807), (649, 52804), (651, 52801), (796, 52444), (804, 52411), (812, 52390), (848, 52297), (851, 52288), (877, 52225), (900, 52189), (901, 52186), (906, 52171), (939, 52093), (946, 52081), (953, 52060), (976, 52021), (1013, 51931), (1022, 51913), (1024, 51907), (1032, 51892),

(1040, 51868), (1042, 51853), (1043, 51850), (1047, 51838), (1059, 51814), (1082, 51766), (1093, 51742),

Gene: Dione_58 Start: 53747, Stop: 51888, Start Num: 190
Candidate Starts for Dione_58:
(Start: 173 @53771 has 3 MA's), (Start: 190 @53747 has 336 MA's), (Start: 222 @53723 has 3 MA's), (Start: 232 @53717 has 2 MA's), (261, 53675), (274, 53654), (336, 53540), (339, 53534), (355, 53504), (390, 53444), (398, 53423), (416, 53369), (429, 53357), (436, 53339), (440, 53327), (487, 53222), (552, 53165), (569, 53129), (573, 53117), (583, 53093), (590, 53081), (601, 53063), (611, 53045), (622, 53027), (643, 52988), (648, 52979), (649, 52976), (651, 52973), (796, 52616), (804, 52583), (812, 52562), (848, 52469), (851, 52460), (877, 52397), (900, 52361), (901, 52358), (906, 52343), (939, 52265), (946, 52253), (953, 52232), (976, 52193), (1013, 52103), (1022, 52085), (1024, 52079), (1032, 52064), (1040, 52040), (1042, 52025), (1043, 52022), (1047, 52010), (1059, 51986), (1082, 51938), (1093, 51914),

Gene: DirtDevil_46 Start: 35357, Stop: 33531, Start Num: 228
Candidate Starts for DirtDevil_46:
(Start: 228 @35357 has 960 MA's), (366, 35144), (373, 35129), (410, 35051), (418, 35030), (424, 35024), (430, 35015), (479, 34898), (490, 34871), (570, 34778), (576, 34763), (621, 34679), (622, 34676), (659, 34610), (690, 34550), (709, 34505), (729, 34466), (803, 34286), (821, 34238), (836, 34199), (855, 34133), (871, 34094), (895, 34073), (900, 34052), (906, 34034), (935, 33968), (1007, 33827), (1009, 33818), (1010, 33815), (1018, 33779), (1032, 33755), (1035, 33746), (1039, 33734), (1066, 33659), (1079, 33638),

Gene: DirtJuice_61 Start: 54337, Stop: 52478, Start Num: 190
Candidate Starts for DirtJuice_61:
(Start: 173 @54361 has 3 MA's), (Start: 190 @54337 has 336 MA's), (Start: 222 @54313 has 3 MA's), (Start: 232 @54307 has 2 MA's), (261, 54265), (274, 54244), (336, 54130), (339, 54124), (355, 54094), (390, 54034), (398, 54013), (416, 53959), (429, 53947), (436, 53929), (440, 53917), (487, 53812), (552, 53755), (569, 53719), (573, 53707), (583, 53683), (590, 53671), (601, 53653), (611, 53635), (622, 53617), (643, 53578), (648, 53569), (649, 53566), (651, 53563), (761, 53308), (796, 53206), (804, 53173), (812, 53152), (848, 53059), (851, 53050), (877, 52987), (901, 52948), (906, 52933), (939, 52855), (946, 52843), (953, 52822), (976, 52783), (1013, 52693), (1022, 52675), (1024, 52669), (1032, 52654), (1040, 52630), (1042, 52615), (1043, 52612), (1047, 52600), (1059, 52576), (1082, 52528), (1093, 52504),

Gene: DirtyBubble_42 Start: 30299, Stop: 32173, Start Num: 217
Candidate Starts for DirtyBubble_42:
(Start: 217 @30299 has 68 MA's), (Start: 273 @30368 has 1 MA's), (Start: 285 @30389 has 1 MA's), (430, 30635), (436, 30650), (448, 30677), (582, 30890), (590, 30905), (626, 30971), (741, 31205), (783, 31325), (784, 31328), (803, 31388), (806, 31394), (823, 31439), (833, 31469), (845, 31505), (855, 31541), (898, 31634), (936, 31727), (973, 31805), (975, 31808), (1009, 31877), (1013, 31901), (1018, 31916), (1038, 31958), (1041, 31976), (1066, 32036), (1079, 32057),

Gene: DirtyDunning_44 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for DirtyDunning_44:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Discoknowium_37 Start: 30143, Stop: 28284, Start Num: 228

Candidate Starts for Discoknowium_37:
(Start: 228 @30143 has 960 MA's), (263, 30092), (304, 30032), (343, 29969), (360, 29939), (362, 29936), (396, 29879), (399, 29867), (410, 29837), (424, 29810), (490, 29657), (570, 29561), (590, 29513), (606, 29492), (637, 29429), (643, 29423), (685, 29351), (696, 29318), (703, 29303), (709, 29291), (761, 29192), (803, 29057), (815, 29027), (821, 29009), (830, 28991), (836, 28970), (840, 28961), (855, 28904), (871, 28865), (900, 28823), (906, 28805), (929, 28757), (949, 28706), (977, 28652), (982, 28643), (992, 28625), (1013, 28565), (1022, 28547), (1058, 28454), (1066, 28430), (1073, 28418), (1121, 28301), (1122, 28298),

Gene: Dismas_40 Start: 29921, Stop: 31792, Start Num: 217
Candidate Starts for Dismas_40:
(Start: 217 @29921 has 68 MA's), (346, 30104), (369, 30143), (386, 30161), (414, 30233), (430, 30257), (435, 30269), (436, 30272), (473, 30353), (602, 30545), (626, 30593), (681, 30683), (741, 30824), (784, 30947), (803, 31007), (830, 31073), (833, 31088), (845, 31124), (848, 31133), (855, 31160), (898, 31253), (936, 31346), (973, 31424), (1009, 31496), (1018, 31535), (1038, 31577), (1058, 31631), (1066, 31655), (1079, 31676), (1090, 31700),

Gene: Dixon_43 Start: 30751, Stop: 28907, Start Num: 228
Candidate Starts for Dixon_43:
(Start: 228 @30751 has 960 MA's), (263, 30700), (360, 30547), (384, 30508), (399, 30475), (410, 30445), (418, 30424), (424, 30418), (430, 30409), (465, 30316), (490, 30265), (570, 30169), (580, 30142), (587, 30124), (590, 30121), (595, 30112), (626, 30058), (643, 30031), (670, 29983), (696, 29926), (709, 29899), (733, 29848), (744, 29833), (798, 29686), (803, 29665), (815, 29635), (821, 29617), (823, 29614), (830, 29599), (836, 29578), (840, 29569), (847, 29542), (851, 29530), (855, 29512), (900, 29431), (904, 29419), (929, 29365), (942, 29329), (977, 29260), (990, 29239), (992, 29233), (1010, 29194), (1013, 29173), (1022, 29155), (1066, 29038), (1073, 29026),

Gene: DoTi_10 Start: 8214, Stop: 6040, Start Num: 145
Candidate Starts for DoTi_10:
(Start: 145 @8214 has 7 MA's), (179, 8169), (258, 8073), (321, 7992), (324, 7986), (347, 7944), (359, 7923), (373, 7896), (376, 7893), (388, 7869), (389, 7866), (422, 7773), (464, 7659), (484, 7620), (499, 7587), (508, 7566), (511, 7545), (515, 7530), (516, 7521), (522, 7488), (532, 7461), (551, 7401), (582, 7323), (612, 7302), (642, 7263), (692, 7155), (711, 7110), (730, 7071), (761, 6999), (778, 6945), (807, 6855), (847, 6732), (851, 6720), (857, 6693), (875, 6618), (905, 6516), (913, 6501), (930, 6468), (934, 6456), (940, 6438), (991, 6342), (1010, 6300), (1011, 6291), (1013, 6279), (1018, 6264), (1021, 6255), (1052, 6168), (1064, 6138), (1066, 6129), (1073, 6117),

Gene: Doddsville_61 Start: 54283, Stop: 52424, Start Num: 190
Candidate Starts for Doddsville_61:
(Start: 173 @54307 has 3 MA's), (Start: 190 @54283 has 336 MA's), (Start: 222 @54259 has 3 MA's), (Start: 232 @54253 has 2 MA's), (261, 54211), (274, 54190), (336, 54076), (339, 54070), (355, 54040), (390, 53980), (398, 53959), (416, 53905), (429, 53893), (436, 53875), (440, 53863), (487, 53758), (552, 53701), (569, 53665), (573, 53653), (583, 53629), (590, 53617), (601, 53599), (611, 53581), (622, 53563), (643, 53524), (648, 53515), (649, 53512), (651, 53509), (796, 53152), (804, 53119), (812, 53098), (848, 53005), (851, 52996), (877, 52933), (900, 52897), (901, 52894), (906, 52879), (939, 52801), (946, 52789), (953, 52768), (976, 52729), (1013, 52639), (1022, 52621), (1024, 52615), (1032, 52600), (1040, 52576), (1042, 52561), (1043, 52558), (1047, 52546), (1059, 52522), (1082, 52474), (1093, 52450),

Gene: Dodo_119 Start: 82152, Stop: 80272, Start Num: 222
Candidate Starts for Dodo_119:
(Start: 177 @82215 has 1 MA's), (180, 82209), (Start: 215 @82161 has 12 MA's), (Start: 222 @82152 has 3 MA's), (Start: 233 @82140 has 2 MA's), (346, 81942), (362, 81915), (390, 81876), (413, 81813),

(429, 81795), (439, 81768), (442, 81762), (493, 81654), (573, 81576), (581, 81555), (596, 81522), (613, 81492), (626, 81465), (660, 81405), (712, 81300), (729, 81267), (767, 81198), (769, 81189), (803, 81078), (843, 80964), (869, 80880), (877, 80865), (902, 80790), (919, 80754), (922, 80748), (926, 80736), (932, 80721), (978, 80619), (983, 80610), (1013, 80520), (1032, 80481), (1036, 80469), (1042, 80442), (1066, 80385), (1083, 80361),

Gene: DoesntMatter_58 Start: 54040, Stop: 52181, Start Num: 190
Candidate Starts for DoesntMatter_58:
(Start: 173 @54064 has 3 MA's), (Start: 190 @54040 has 336 MA's), (Start: 222 @54016 has 3 MA's), (Start: 232 @54010 has 2 MA's), (261, 53968), (274, 53947), (336, 53833), (339, 53827), (355, 53797), (390, 53737), (398, 53716), (416, 53662), (429, 53650), (436, 53632), (440, 53620), (487, 53515), (552, 53458), (569, 53422), (573, 53410), (585, 53383), (601, 53356), (611, 53338), (622, 53320), (643, 53281), (648, 53272), (649, 53269), (651, 53266), (796, 52909), (804, 52876), (812, 52855), (848, 52762), (851, 52753), (877, 52690), (900, 52654), (901, 52651), (906, 52636), (939, 52558), (946, 52546), (953, 52525), (976, 52486), (1013, 52396), (1022, 52378), (1024, 52372), (1032, 52357), (1040, 52333), (1042, 52318), (1043, 52315), (1047, 52303), (1059, 52279), (1082, 52231), (1093, 52207),

Gene: DolOn_66 Start: 55495, Stop: 53636, Start Num: 190
Candidate Starts for DolOn_66:
(Start: 173 @55519 has 3 MA's), (Start: 190 @55495 has 336 MA's), (Start: 222 @55471 has 3 MA's), (Start: 232 @55465 has 2 MA's), (261, 55423), (274, 55402), (336, 55288), (339, 55282), (355, 55252), (390, 55192), (398, 55171), (416, 55117), (429, 55105), (436, 55087), (440, 55075), (487, 54970), (552, 54913), (569, 54877), (573, 54865), (585, 54838), (601, 54811), (611, 54793), (622, 54775), (643, 54736), (648, 54727), (649, 54724), (761, 54466), (796, 54364), (804, 54331), (812, 54310), (848, 54217), (851, 54208), (877, 54145), (900, 54109), (901, 54106), (906, 54091), (939, 54013), (946, 54001), (953, 53980), (976, 53941), (1013, 53851), (1022, 53833), (1024, 53827), (1032, 53812), (1040, 53788), (1042, 53773), (1043, 53770), (1047, 53758), (1059, 53734), (1082, 53686), (1093, 53662),

Gene: DonSanchon_58 Start: 53730, Stop: 51871, Start Num: 190
Candidate Starts for DonSanchon_58:
(Start: 173 @53754 has 3 MA's), (Start: 190 @53730 has 336 MA's), (Start: 222 @53706 has 3 MA's), (Start: 232 @53700 has 2 MA's), (261, 53658), (274, 53637), (336, 53523), (339, 53517), (355, 53487), (390, 53427), (398, 53406), (416, 53352), (429, 53340), (436, 53322), (440, 53310), (487, 53205), (552, 53148), (569, 53112), (573, 53100), (585, 53073), (611, 53028), (643, 52971), (648, 52962), (649, 52959), (796, 52599), (804, 52566), (812, 52545), (848, 52452), (851, 52443), (877, 52380), (900, 52344), (901, 52341), (906, 52326), (939, 52248), (946, 52236), (953, 52215), (976, 52176), (1013, 52086), (1022, 52068), (1024, 52062), (1032, 52047), (1040, 52023), (1042, 52008), (1043, 52005), (1047, 51993), (1059, 51969), (1082, 51921), (1093, 51897),

Gene: Donkey_38 Start: 27592, Stop: 29574, Start Num: 227
Candidate Starts for Donkey_38:
(Start: 227 @27592 has 33 MA's), (343, 27766), (386, 27829), (400, 27862), (435, 27937), (544, 28165), (626, 28339), (707, 28495), (768, 28633), (795, 28720), (803, 28753), (815, 28783), (836, 28840), (855, 28906), (898, 28999), (1013, 29266), (1024, 29290), (1066, 29401), (1114, 29509),

Gene: Donny_59 Start: 54516, Stop: 52690, Start Num: 182
Candidate Starts for Donny_59:
(Start: 182 @54516 has 33 MA's), (249, 54462), (293, 54402), (364, 54291), (390, 54243), (436, 54141), (449, 54111), (457, 54099), (472, 54063), (487, 54033), (569, 53940), (573, 53928), (583, 53904), (590, 53892), (601, 53874), (635, 53811), (649, 53787), (651, 53784), (701, 53682), (776, 53493), (780, 53475), (787, 53457), (797, 53427), (804, 53400), (846, 53292), (848, 53286), (851,

53277), (856, 53256), (883, 53193), (901, 53160), (906, 53145), (933, 53085), (939, 53067), (946, 53055), (953, 53034), (955, 53025), (957, 53022), (1013, 52905), (1024, 52881), (1040, 52842), (1042, 52827), (1043, 52824), (1054, 52800), (1059, 52788), (1060, 52785), (1066, 52767), (1083, 52737), (1093, 52716), (1100, 52695),

Gene: DontArgue_43 Start: 30359, Stop: 28536, Start Num: 228
Candidate Starts for DontArgue_43:
(Start: 228 @30359 has 960 MA's), (263, 30308), (396, 30095), (424, 30026), (430, 30017), (458, 29945), (465, 29924), (480, 29897), (490, 29873), (570, 29780), (585, 29741), (626, 29672), (643, 29645), (702, 29528), (729, 29474), (767, 29417), (803, 29294), (830, 29228), (847, 29171), (855, 29141), (871, 29102), (901, 29030), (906, 29015), (919, 28991), (930, 28964), (935, 28949), (949, 28916), (1013, 28760), (1024, 28736), (1066, 28625), (1073, 28613), (1079, 28604),

Gene: Doobus_41 Start: 29222, Stop: 31096, Start Num: 217
Candidate Starts for Doobus_41:
(Start: 215 @29219 has 12 MA's), (Start: 217 @29222 has 68 MA's), (Start: 273 @29291 has 1 MA's), (Start: 285 @29312 has 1 MA's), (430, 29558), (448, 29600), (582, 29813), (626, 29894), (741, 30128), (784, 30251), (803, 30311), (806, 30317), (823, 30362), (830, 30377), (833, 30392), (845, 30428), (855, 30464), (898, 30557), (936, 30650), (973, 30728), (1009, 30800), (1018, 30839), (1038, 30881), (1041, 30899), (1058, 30935), (1066, 30959), (1079, 30980),

Gene: Doom_45 Start: 35111, Stop: 33285, Start Num: 228
Candidate Starts for Doom_45:
(Start: 228 @35111 has 960 MA's), (366, 34898), (410, 34805), (418, 34784), (424, 34778), (430, 34769), (479, 34652), (490, 34625), (570, 34532), (576, 34517), (621, 34433), (622, 34430), (659, 34364), (680, 34334), (690, 34304), (709, 34259), (729, 34220), (803, 34040), (815, 34010), (821, 33992), (823, 33989), (836, 33953), (855, 33887), (900, 33806), (901, 33803), (935, 33722), (1009, 33572), (1010, 33569), (1018, 33533), (1032, 33509), (1035, 33500), (1039, 33488), (1045, 33461), (1066, 33413), (1079, 33392),

Gene: Dorothea_45 Start: 29646, Stop: 27805, Start Num: 228
Candidate Starts for Dorothea_45:
(Start: 228 @29646 has 960 MA's), (360, 29442), (399, 29367), (400, 29364), (410, 29337), (415, 29322), (424, 29310), (448, 29259), (485, 29169), (490, 29157), (570, 29064), (585, 29025), (595, 29007), (607, 28992), (643, 28926), (660, 28893), (663, 28890), (710, 28788), (742, 28728), (778, 28644), (803, 28563), (835, 28479), (836, 28476), (840, 28467), (847, 28440), (855, 28410), (895, 28350), (906, 28311), (1009, 28095), (1010, 28092), (1013, 28071), (1066, 27936), (1073, 27924), (1079, 27915), (1082, 27912), (1115, 27819),

Gene: Dothraki_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Dothraki_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: DrFeelGood_43 Start: 34795, Stop: 32969, Start Num: 228
Candidate Starts for DrFeelGood_43:
(Start: 228 @34795 has 960 MA's), (366, 34582), (373, 34567), (410, 34489), (418, 34468), (424, 34462), (430, 34453), (479, 34336), (490, 34309), (493, 34300), (570, 34216), (576, 34201), (590,

34168), (621, 34117), (622, 34114), (659, 34048), (680, 34018), (690, 33988), (709, 33943), (729, 33904), (803, 33724), (815, 33694), (821, 33676), (823, 33673), (836, 33637), (855, 33571), (900, 33490), (901, 33487), (935, 33406), (1009, 33256), (1010, 33253), (1018, 33217), (1032, 33193), (1035, 33184), (1039, 33172), (1045, 33145), (1066, 33097), (1079, 33076),

Gene: DrManhattan_40 Start: 27782, Stop: 29692, Start Num: 228
Candidate Starts for DrManhattan_40:
(124, 27644), (Start: 228 @27782 has 960 MA's), (261, 27830), (410, 28079), (452, 28169), (572, 28421), (576, 28430), (626, 28529), (633, 28544), (677, 28613), (707, 28682), (768, 28820), (803, 28940), (815, 28970), (828, 29003), (836, 29027), (855, 29093), (917, 29228), (929, 29258), (1009, 29429), (1022, 29471), (1036, 29504), (1066, 29588), (1071, 29597), (1079, 29609),

Gene: DrSierra_39 Start: 27819, Stop: 29663, Start Num: 228
Candidate Starts for DrSierra_39:
(Start: 228 @27819 has 960 MA's), (360, 28023), (383, 28050), (410, 28116), (452, 28206), (572, 28392), (576, 28401), (587, 28431), (626, 28500), (633, 28515), (707, 28653), (768, 28791), (803, 28911), (815, 28941), (836, 28998), (855, 29064), (929, 29229), (1009, 29400), (1066, 29559), (1071, 29568), (1107, 29646),

Gene: Drake55_46 Start: 31661, Stop: 29874, Start Num: 228
Candidate Starts for Drake55_46:
(Start: 228 @31661 has 960 MA's), (360, 31457), (362, 31454), (366, 31448), (384, 31418), (399, 31385), (400, 31382), (410, 31355), (424, 31328), (448, 31277), (490, 31175), (570, 31082), (590, 31034), (595, 31025), (607, 31010), (643, 30944), (686, 30863), (707, 30815), (778, 30671), (803, 30590), (823, 30539), (835, 30506), (855, 30437), (871, 30398), (895, 30377), (900, 30356), (904, 30344), (990, 30164), (992, 30158), (1009, 30122), (1013, 30098), (1042, 30020), (1066, 29963), (1073, 29951),

Gene: Drake94_42 Start: 30378, Stop: 28546, Start Num: 228
Candidate Starts for Drake94_42:
(Start: 228 @30378 has 960 MA's), (263, 30327), (307, 30261), (360, 30174), (366, 30165), (396, 30114), (399, 30102), (424, 30045), (458, 29964), (462, 29952), (465, 29943), (480, 29916), (490, 29892), (570, 29799), (585, 29760), (626, 29691), (643, 29664), (709, 29532), (803, 29304), (830, 29238), (847, 29181), (855, 29151), (871, 29112), (901, 29040), (906, 29025), (919, 29001), (935, 28959), (949, 28926), (1013, 28770), (1024, 28746), (1045, 28683), (1066, 28635), (1073, 28623), (1079, 28614),

Gene: DreamCatcher_47 Start: 35708, Stop: 33882, Start Num: 228
Candidate Starts for DreamCatcher_47:
(Start: 228 @35708 has 960 MA's), (366, 35495), (373, 35480), (399, 35432), (410, 35402), (418, 35381), (424, 35375), (430, 35366), (448, 35324), (479, 35249), (490, 35222), (570, 35129), (576, 35114), (590, 35081), (621, 35030), (622, 35027), (659, 34961), (680, 34931), (690, 34901), (709, 34856), (729, 34817), (803, 34637), (815, 34607), (821, 34589), (836, 34550), (855, 34484), (871, 34445), (895, 34424), (900, 34403), (906, 34385), (935, 34319), (1009, 34169), (1010, 34166), (1018, 34130), (1032, 34106), (1035, 34097), (1039, 34085), (1066, 34010), (1079, 33989),

Gene: DreamTeam1_42 Start: 30708, Stop: 28915, Start Num: 228
Candidate Starts for DreamTeam1_42:
(Start: 228 @30708 has 960 MA's), (235, 30699), (342, 30537), (343, 30534), (360, 30504), (386, 30459), (400, 30426), (410, 30399), (415, 30384), (424, 30372), (430, 30363), (448, 30321), (480, 30243), (490, 30219), (570, 30126), (579, 30102), (587, 30081), (659, 29958), (733, 29799), (735, 29796), (764, 29760), (767, 29754), (803, 29631), (830, 29565), (851, 29496), (855, 29478), (895, 29418), (900, 29397), (949, 29280), (990, 29205), (1009, 29163), (1042, 29061), (1066, 29004), (1073,

28992), (1079, 28983),

Gene: Dreamboat_46 Start: 34398, Stop: 32569, Start Num: 228
Candidate Starts for Dreamboat_46:
(Start: 228 @34398 has 960 MA's), (366, 34185), (373, 34170), (399, 34122), (410, 34092), (418, 34071), (424, 34065), (430, 34056), (479, 33939), (490, 33912), (570, 33819), (576, 33804), (583, 33783), (590, 33771), (621, 33720), (622, 33717), (659, 33651), (680, 33621), (690, 33591), (709, 33546), (729, 33507), (803, 33327), (821, 33279), (840, 33231), (851, 33192), (855, 33174), (871, 33135), (895, 33114), (900, 33093), (905, 33078), (955, 32955), (1036, 32784), (1041, 32760), (1062, 32712), (1066, 32700), (1079, 32679), (1083, 32673), (1102, 32625), (1109, 32610),

Gene: DroogsArmy_41 Start: 33073, Stop: 31238, Start Num: 228
Candidate Starts for DroogsArmy_41:
(Start: 228 @33073 has 960 MA's), (304, 32962), (366, 32860), (398, 32800), (418, 32746), (424, 32740), (435, 32719), (465, 32638), (490, 32587), (565, 32506), (570, 32491), (580, 32464), (587, 32446), (592, 32443), (607, 32422), (626, 32383), (663, 32320), (694, 32254), (696, 32251), (707, 32230), (753, 32140), (767, 32119), (778, 32077), (803, 31996), (821, 31948), (840, 31900), (847, 31873), (855, 31843), (871, 31804), (900, 31735), (901, 31732), (906, 31717), (919, 31693), (935, 31651), (992, 31522), (1007, 31495), (1013, 31462), (1022, 31444), (1036, 31411), (1066, 31327), (1073, 31315), (1079, 31306),

Gene: DropBear_45 Start: 31442, Stop: 29604, Start Num: 228
Candidate Starts for DropBear_45:
(171, 31514), (Start: 228 @31442 has 960 MA's), (263, 31391), (360, 31238), (396, 31178), (399, 31166), (424, 31109), (430, 31100), (435, 31088), (480, 30980), (490, 30956), (570, 30860), (592, 30812), (626, 30752), (663, 30689), (696, 30620), (707, 30599), (742, 30530), (746, 30524), (767, 30485), (803, 30362), (836, 30275), (847, 30239), (855, 30209), (869, 30179), (901, 30098), (919, 30059), (929, 30035), (935, 30017), (992, 29888), (1013, 29828), (1066, 29693), (1073, 29681), (1079, 29672),

Gene: Druantia_45 Start: 31573, Stop: 29747, Start Num: 228
Candidate Starts for Druantia_45:
(Start: 228 @31573 has 960 MA's), (Start: 241 @31552 has 3 MA's), (263, 31522), (278, 31492), (384, 31330), (394, 31312), (424, 31240), (430, 31231), (480, 31111), (490, 31087), (570, 30994), (592, 30946), (607, 30925), (626, 30886), (696, 30754), (707, 30733), (729, 30688), (733, 30676), (798, 30523), (803, 30502), (847, 30379), (855, 30349), (871, 30310), (900, 30244), (901, 30241), (906, 30226), (919, 30202), (929, 30178), (1013, 29971), (1066, 29836), (1073, 29824), (1079, 29815),

Gene: Dublin_37 Start: 30165, Stop: 28306, Start Num: 228
Candidate Starts for Dublin_37:
(Start: 228 @30165 has 960 MA's), (263, 30114), (304, 30054), (343, 29991), (360, 29961), (362, 29958), (396, 29901), (410, 29859), (424, 29832), (490, 29679), (570, 29583), (590, 29535), (637, 29451), (643, 29445), (685, 29373), (696, 29340), (703, 29325), (709, 29313), (761, 29214), (803, 29079), (815, 29049), (821, 29031), (823, 29028), (836, 28992), (840, 28983), (845, 28962), (848, 28953), (855, 28926), (856, 28923), (895, 28866), (900, 28845), (949, 28728), (977, 28674), (982, 28665), (992, 28647), (1022, 28569), (1058, 28476), (1066, 28452), (1073, 28440), (1121, 28323), (1122, 28320),

Gene: Dubu_35 Start: 27275, Stop: 29131, Start Num: 228
Candidate Starts for Dubu_35:
(Start: 228 @27275 has 960 MA's), (261, 27323), (304, 27395), (410, 27596), (454, 27692), (489, 27773), (556, 27833), (617, 27962), (626, 27983), (633, 27998), (686, 28088), (690, 28097), (707, 28136), (729, 28181), (736, 28199), (798, 28373), (803, 28394), (806, 28400), (821, 28442), (836,

28481), (838, 28484), (843, 28505), (853, 28538), (855, 28547), (879, 28601), (919, 28688), (936, 28733), (945, 28751), (949, 28763), (973, 28811), (975, 28814), (1024, 28931), (1045, 28994), (1066, 29042), (1075, 29057), (1090, 29087),

Gene: DuchessDung_62 Start: 53800, Stop: 51941, Start Num: 190
Candidate Starts for DuchessDung_62:
(Start: 173 @53824 has 3 MA's), (Start: 190 @53800 has 336 MA's), (Start: 222 @53776 has 3 MA's), (Start: 232 @53770 has 2 MA's), (261, 53728), (274, 53707), (336, 53593), (339, 53587), (355, 53557), (390, 53497), (398, 53476), (416, 53422), (429, 53410), (436, 53392), (440, 53380), (487, 53275), (552, 53218), (569, 53182), (573, 53170), (585, 53143), (611, 53098), (643, 53041), (648, 53032), (649, 53029), (796, 52669), (804, 52636), (812, 52615), (848, 52522), (851, 52513), (877, 52450), (900, 52414), (901, 52411), (906, 52396), (939, 52318), (946, 52306), (953, 52285), (976, 52246), (1013, 52156), (1022, 52138), (1024, 52132), (1032, 52117), (1040, 52093), (1042, 52078), (1043, 52075), (1047, 52063), (1059, 52039), (1082, 51991), (1093, 51967),

Gene: DudeLittle_43 Start: 31344, Stop: 29557, Start Num: 228
Candidate Starts for DudeLittle_43:
(Start: 228 @31344 has 960 MA's), (360, 31140), (362, 31137), (375, 31116), (384, 31101), (399, 31068), (400, 31065), (410, 31038), (424, 31011), (435, 30990), (490, 30858), (570, 30765), (583, 30729), (590, 30717), (595, 30708), (607, 30693), (643, 30627), (686, 30546), (707, 30498), (709, 30492), (742, 30429), (803, 30273), (823, 30222), (835, 30189), (836, 30186), (855, 30120), (871, 30081), (895, 30060), (924, 29985), (929, 29973), (982, 29859), (992, 29841), (1009, 29805), (1013, 29781), (1042, 29703), (1066, 29646), (1073, 29634), (1079, 29625),

Gene: Duggie_61 Start: 54284, Stop: 52425, Start Num: 190
Candidate Starts for Duggie_61:
(Start: 173 @54308 has 3 MA's), (Start: 190 @54284 has 336 MA's), (Start: 222 @54260 has 3 MA's), (Start: 232 @54254 has 2 MA's), (261, 54212), (274, 54191), (336, 54077), (339, 54071), (355, 54041), (390, 53981), (398, 53960), (416, 53906), (429, 53894), (436, 53876), (440, 53864), (487, 53759), (552, 53702), (569, 53666), (573, 53654), (583, 53630), (590, 53618), (601, 53600), (611, 53582), (622, 53564), (643, 53525), (648, 53516), (649, 53513), (651, 53510), (796, 53153), (804, 53120), (812, 53099), (848, 53006), (851, 52997), (877, 52934), (900, 52898), (901, 52895), (906, 52880), (939, 52802), (946, 52790), (953, 52769), (976, 52730), (1013, 52640), (1022, 52622), (1024, 52616), (1032, 52601), (1040, 52577), (1042, 52562), (1043, 52559), (1047, 52547), (1059, 52523), (1066, 52502), (1082, 52475), (1093, 52451), (1098, 52436),

Gene: Dulcie_45 Start: 34631, Stop: 32805, Start Num: 228
Candidate Starts for Dulcie_45:
(Start: 228 @34631 has 960 MA's), (366, 34418), (373, 34403), (399, 34355), (410, 34325), (418, 34304), (424, 34298), (430, 34289), (479, 34172), (490, 34145), (570, 34052), (576, 34037), (590, 34004), (621, 33953), (622, 33950), (659, 33884), (680, 33854), (690, 33824), (709, 33779), (729, 33740), (803, 33560), (821, 33512), (836, 33473), (855, 33407), (871, 33368), (895, 33347), (900, 33326), (906, 33308), (935, 33242), (1009, 33092), (1010, 33089), (1018, 33053), (1032, 33029), (1035, 33020), (1039, 33008), (1045, 32981), (1066, 32933), (1079, 32912),

Gene: DumpQuist_10 Start: 8655, Stop: 6412, Start Num: 163
Candidate Starts for DumpQuist_10:
(123, 8724), (127, 8715), (Start: 163 @8655 has 29 MA's), (247, 8541), (257, 8535), (Start: 285 @8490 has 1 MA's), (388, 8283), (395, 8268), (451, 8115), (508, 7968), (511, 7947), (515, 7932), (526, 7872), (556, 7791), (571, 7752), (645, 7647), (714, 7494), (753, 7410), (778, 7335), (841, 7140), (844, 7128), (857, 7080), (877, 7002), (879, 6993), (910, 6903), (913, 6897), (923, 6879), (935, 6849), (970, 6768), (1019, 6630), (1033, 6594), (1035, 6585), (1053, 6537), (1062, 6510), (1066, 6498), (1073, 6486),

Gene: DunneganBoMo_88 Start: 74347, Stop: 76077, Start Num: 276
Candidate Starts for DunneganBoMo_88:
(Start: 238 @74284 has 11 MA's), (261, 74317), (Start: 273 @74338 has 1 MA's), (Start: 276 @74347 has 2 MA's), (Start: 285 @74359 has 1 MA's), (429, 74596), (439, 74623), (442, 74629), (544, 74764), (613, 74881), (626, 74908), (629, 74914), (633, 74923), (666, 74977), (729, 75109), (737, 75130), (755, 75157), (774, 75205), (783, 75238), (798, 75277), (803, 75298), (806, 75304), (845, 75421), (870, 75505), (871, 75508), (898, 75571), (902, 75583), (919, 75619), (932, 75652), (953, 75706), (960, 75724), (1002, 75808), (1009, 75829), (1014, 75856), (1036, 75904), (1038, 75910), (1041, 75928), (1045, 75940), (1049, 75952), (1053, 75955), (1066, 75988), (1083, 76015), (1094, 76039),

Gene: Duocatuli_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for Duocatuli_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Duplo_47 Start: 31191, Stop: 29368, Start Num: 228
Candidate Starts for Duplo_47:
(Start: 228 @31191 has 960 MA's), (360, 30987), (373, 30963), (384, 30945), (394, 30927), (399, 30912), (400, 30909), (410, 30882), (424, 30855), (448, 30804), (490, 30702), (570, 30609), (590, 30561), (595, 30552), (606, 30540), (607, 30537), (643, 30471), (680, 30411), (729, 30297), (742, 30273), (766, 30234), (803, 30108), (823, 30057), (836, 30021), (855, 29955), (871, 29916), (901, 29847), (919, 29808), (936, 29763), (949, 29733), (982, 29670), (990, 29658), (992, 29652), (1013, 29592), (1066, 29457), (1073, 29445), (1079, 29436),

Gene: Durga_63 Start: 54780, Stop: 52921, Start Num: 190
Candidate Starts for Durga_63:
(Start: 173 @54804 has 3 MA's), (Start: 190 @54780 has 336 MA's), (Start: 222 @54756 has 3 MA's), (Start: 232 @54750 has 2 MA's), (261, 54708), (274, 54687), (336, 54573), (339, 54567), (355, 54537), (390, 54477), (398, 54456), (416, 54402), (429, 54390), (436, 54372), (440, 54360), (487, 54255), (552, 54198), (569, 54162), (573, 54150), (583, 54126), (590, 54114), (601, 54096), (611, 54078), (622, 54060), (643, 54021), (648, 54012), (649, 54009), (651, 54006), (761, 53751), (796, 53649), (804, 53616), (812, 53595), (848, 53502), (851, 53493), (877, 53430), (900, 53394), (901, 53391), (906, 53376), (939, 53298), (946, 53286), (953, 53265), (976, 53226), (1013, 53136), (1022, 53118), (1024, 53112), (1032, 53097), (1040, 53073), (1042, 53058), (1043, 53055), (1047, 53043), (1059, 53019), (1066, 52998), (1082, 52971), (1093, 52947),

Gene: Dussy_46 Start: 34786, Stop: 32957, Start Num: 228
Candidate Starts for Dussy_46:
(Start: 228 @34786 has 960 MA's), (366, 34573), (373, 34558), (399, 34510), (410, 34480), (418, 34459), (424, 34453), (430, 34444), (479, 34327), (490, 34300), (570, 34207), (576, 34192), (621, 34108), (622, 34105), (659, 34039), (680, 34009), (690, 33979), (709, 33934), (729, 33895), (803, 33715), (821, 33667), (840, 33619), (851, 33580), (855, 33562), (871, 33523), (895, 33502), (900, 33481), (905, 33466), (955, 33343), (1036, 33172), (1041, 33148), (1062, 33100), (1066, 33088), (1079, 33067), (1083, 33061), (1102, 33013), (1109, 32998),

Gene: DustyMartin_48 Start: 31200, Stop: 29365, Start Num: 228
Candidate Starts for DustyMartin_48:

(Start: 228 @31200 has 960 MA's), (263, 31149), (307, 31083), (360, 30996), (373, 30972), (396, 30936), (399, 30924), (424, 30867), (430, 30858), (462, 30774), (480, 30738), (485, 30726), (490, 30714), (570, 30621), (592, 30573), (626, 30513), (694, 30384), (696, 30381), (707, 30360), (709, 30354), (767, 30246), (803, 30123), (821, 30075), (847, 30000), (855, 29970), (871, 29931), (900, 29862), (901, 29859), (919, 29820), (929, 29796), (931, 29790), (935, 29778), (985, 29670), (1013, 29589), (1024, 29565), (1045, 29502), (1066, 29454), (1073, 29442), (1079, 29433),

Gene: Dynamix_45 Start: 34393, Stop: 32567, Start Num: 228
Candidate Starts for Dynamix_45:
(Start: 228 @34393 has 960 MA's), (366, 34180), (399, 34117), (410, 34087), (418, 34066), (424, 34060), (430, 34051), (479, 33934), (490, 33907), (570, 33814), (576, 33799), (621, 33715), (622, 33712), (659, 33646), (680, 33616), (690, 33586), (709, 33541), (729, 33502), (803, 33322), (821, 33274), (836, 33235), (855, 33169), (871, 33130), (895, 33109), (900, 33088), (906, 33070), (935, 33004), (1009, 32854), (1010, 32851), (1018, 32815), (1035, 32782), (1039, 32770), (1045, 32743), (1066, 32695), (1079, 32674),

Gene: EZMoney23_43 Start: 31302, Stop: 29515, Start Num: 227
Candidate Starts for EZMoney23_43:
(Start: 227 @31302 has 33 MA's), (360, 31098), (362, 31095), (366, 31089), (375, 31074), (384, 31059), (399, 31026), (400, 31023), (410, 30996), (424, 30969), (435, 30948), (448, 30918), (490, 30816), (570, 30723), (590, 30675), (595, 30666), (607, 30651), (643, 30585), (686, 30504), (707, 30456), (709, 30450), (778, 30312), (803, 30231), (823, 30180), (835, 30147), (836, 30144), (855, 30078), (871, 30039), (895, 30018), (924, 29943), (949, 29880), (958, 29853), (982, 29817), (992, 29799), (1009, 29763), (1013, 29739), (1038, 29682), (1042, 29661), (1066, 29604), (1073, 29592), (1079, 29583),

Gene: Eagle_45 Start: 31595, Stop: 29769, Start Num: 228
Candidate Starts for Eagle_45:
(Start: 228 @31595 has 960 MA's), (Start: 241 @31574 has 3 MA's), (263, 31544), (278, 31514), (384, 31352), (394, 31334), (424, 31262), (430, 31253), (480, 31133), (490, 31109), (570, 31016), (592, 30968), (607, 30947), (626, 30908), (696, 30776), (707, 30755), (729, 30710), (733, 30698), (798, 30545), (803, 30524), (847, 30401), (855, 30371), (871, 30332), (900, 30266), (901, 30263), (906, 30248), (919, 30224), (929, 30200), (1013, 29993), (1066, 29858), (1073, 29846), (1079, 29837),

Gene: EagleEye_46 Start: 30777, Stop: 28945, Start Num: 228
Candidate Starts for EagleEye_46:
(Start: 228 @30777 has 960 MA's), (360, 30573), (362, 30570), (399, 30501), (400, 30498), (410, 30471), (418, 30450), (424, 30444), (430, 30435), (448, 30393), (480, 30315), (490, 30291), (570, 30198), (659, 30030), (764, 29832), (803, 29703), (840, 29607), (851, 29568), (855, 29550), (897, 29478), (900, 29469), (955, 29331), (1007, 29244), (1009, 29235), (1042, 29133), (1066, 29076), (1073, 29064), (1115, 28959),

Gene: Eaglehorse_57 Start: 52538, Stop: 50709, Start Num: 190
Candidate Starts for Eaglehorse_57:
(Start: 190 @52538 has 336 MA's), (Start: 232 @52511 has 2 MA's), (Start: 255 @52481 has 8 MA's), (261, 52469), (Start: 276 @52442 has 2 MA's), (278, 52439), (284, 52430), (307, 52412), (362, 52316), (390, 52265), (399, 52241), (467, 52079), (482, 52055), (487, 52043), (552, 51986), (569, 51950), (573, 51938), (583, 51914), (630, 51830), (648, 51800), (649, 51797), (664, 51767), (727, 51623), (755, 51557), (771, 51518), (775, 51506), (780, 51485), (787, 51467), (804, 51410), (840, 51326), (848, 51296), (851, 51287), (875, 51221), (897, 51194), (900, 51185), (906, 51167), (919, 51143), (939, 51089), (946, 51077), (953, 51056), (992, 50987), (1013, 50927), (1022, 50909), (1036, 50876), (1040, 50864), (1042, 50849), (1043, 50846), (1047, 50834), (1059, 50810), (1060, 50807), (1082, 50759), (1083, 50756), (1093, 50735), (1100, 50714),

Gene: Eaglepride_45 Start: 31205, Stop: 29382, Start Num: 228
Candidate Starts for Eaglepride_45:
(Start: 228 @31205 has 960 MA's), (263, 31154), (278, 31124), (384, 30962), (394, 30944), (399, 30929), (424, 30872), (430, 30863), (458, 30791), (465, 30770), (480, 30743), (490, 30719), (570, 30626), (585, 30587), (592, 30578), (626, 30518), (643, 30491), (690, 30404), (709, 30359), (729, 30320), (767, 30263), (778, 30221), (803, 30140), (830, 30074), (847, 30017), (851, 30005), (855, 29987), (871, 29948), (901, 29876), (906, 29861), (919, 29837), (935, 29795), (992, 29666), (1013, 29606), (1018, 29591), (1024, 29582), (1066, 29471), (1073, 29459), (1079, 29450),

Gene: Eapen_45 Start: 31565, Stop: 29739, Start Num: 228
Candidate Starts for Eapen_45:
(Start: 228 @31565 has 960 MA's), (Start: 241 @31544 has 3 MA's), (263, 31514), (278, 31484), (384, 31322), (394, 31304), (424, 31232), (430, 31223), (480, 31103), (490, 31079), (570, 30986), (592, 30938), (607, 30917), (626, 30878), (696, 30746), (707, 30725), (729, 30680), (733, 30668), (798, 30515), (803, 30494), (847, 30371), (855, 30341), (871, 30302), (900, 30236), (901, 30233), (906, 30218), (919, 30194), (929, 30170), (1013, 29963), (1066, 29828), (1073, 29816), (1079, 29807),

Gene: EastView9101_57 Start: 54337, Stop: 52511, Start Num: 182
Candidate Starts for EastView9101_57:
(95, 54496), (129, 54415), (Start: 182 @54337 has 33 MA's), (249, 54283), (293, 54223), (364, 54112), (390, 54064), (436, 53962), (457, 53920), (472, 53884), (487, 53854), (569, 53761), (573, 53749), (583, 53725), (590, 53713), (601, 53695), (635, 53632), (649, 53608), (701, 53503), (776, 53314), (780, 53296), (797, 53248), (804, 53221), (846, 53113), (848, 53107), (851, 53098), (856, 53077), (883, 53014), (901, 52981), (906, 52966), (933, 52906), (939, 52888), (946, 52876), (953, 52855), (955, 52846), (957, 52843), (1013, 52726), (1024, 52702), (1040, 52663), (1042, 52648), (1043, 52645), (1054, 52621), (1059, 52609), (1060, 52606), (1083, 52558), (1093, 52537), (1100, 52516),

Gene: Ebony_45 Start: 30738, Stop: 28951, Start Num: 228
Candidate Starts for Ebony_45:
(Start: 228 @30738 has 960 MA's), (360, 30534), (399, 30462), (410, 30432), (424, 30405), (572, 30153), (595, 30102), (643, 30021), (668, 29976), (707, 29892), (733, 29835), (766, 29793), (778, 29748), (803, 29667), (823, 29616), (836, 29580), (855, 29514), (895, 29454), (897, 29442), (938, 29340), (949, 29316), (954, 29298), (992, 29235), (1007, 29208), (1009, 29199), (1013, 29175), (1066, 29040), (1073, 29028), (1079, 29019),

Gene: Echild_44 Start: 30778, Stop: 28991, Start Num: 228
Candidate Starts for Echild_44:
(Start: 228 @30778 has 960 MA's), (362, 30571), (366, 30565), (384, 30535), (399, 30502), (400, 30499), (410, 30472), (424, 30445), (435, 30424), (490, 30292), (570, 30199), (590, 30151), (595, 30142), (607, 30127), (643, 30061), (686, 29980), (707, 29932), (709, 29926), (742, 29863), (778, 29788), (803, 29707), (823, 29656), (835, 29623), (836, 29620), (855, 29554), (871, 29515), (895, 29494), (924, 29419), (931, 29401), (935, 29389), (949, 29356), (958, 29329), (982, 29293), (1009, 29239), (1013, 29215), (1038, 29158), (1042, 29137), (1066, 29080), (1073, 29068), (1079, 29059),

Gene: Eden_40 Start: 28150, Stop: 30027, Start Num: 217
Candidate Starts for Eden_40:
(Start: 217 @28150 has 68 MA's), (Start: 273 @28219 has 1 MA's), (360, 28357), (414, 28462), (435, 28498), (436, 28501), (479, 28591), (572, 28714), (626, 28822), (633, 28837), (654, 28867), (759, 29131), (767, 29146), (784, 29209), (803, 29269), (830, 29335), (848, 29398), (855, 29425), (898, 29518), (929, 29590), (973, 29689), (975, 29692), (976, 29695), (1013, 29785), (1038, 29842), (1066, 29920), (1079, 29941), (1108, 30010),

Gene: Edison31_43 Start: 31140, Stop: 29305, Start Num: 228
Candidate Starts for Edison31_43:
(Start: 228 @31140 has 960 MA's), (263, 31089), (307, 31023), (360, 30936), (373, 30912), (384, 30897), (396, 30876), (399, 30864), (424, 30807), (430, 30798), (462, 30714), (480, 30678), (485, 30666), (490, 30654), (570, 30561), (592, 30513), (626, 30453), (643, 30426), (694, 30324), (696, 30321), (707, 30300), (709, 30294), (767, 30186), (803, 30063), (821, 30015), (847, 29940), (855, 29910), (871, 29871), (900, 29802), (901, 29799), (919, 29760), (929, 29736), (931, 29730), (935, 29718), (1013, 29529), (1024, 29505), (1045, 29442), (1066, 29394), (1073, 29382), (1079, 29373),

Gene: EdogawaKiddo_43 Start: 31490, Stop: 29697, Start Num: 228
Candidate Starts for EdogawaKiddo_43:
(Start: 228 @31490 has 960 MA's), (235, 31481), (263, 31439), (342, 31319), (343, 31316), (370, 31268), (400, 31208), (411, 31178), (415, 31166), (424, 31154), (490, 31001), (570, 30908), (643, 30770), (659, 30740), (733, 30581), (742, 30569), (764, 30542), (798, 30434), (803, 30413), (851, 30278), (855, 30260), (900, 30179), (919, 30137), (949, 30062), (990, 29987), (1009, 29945), (1042, 29843), (1066, 29786), (1073, 29774), (1079, 29765),

Gene: Edtherson_45 Start: 35275, Stop: 33449, Start Num: 228
Candidate Starts for Edtherson_45:
(Start: 228 @35275 has 960 MA's), (366, 35062), (373, 35047), (399, 34999), (410, 34969), (418, 34948), (424, 34942), (430, 34933), (479, 34816), (490, 34789), (570, 34696), (576, 34681), (621, 34597), (622, 34594), (659, 34528), (680, 34498), (690, 34468), (709, 34423), (729, 34384), (803, 34204), (815, 34174), (821, 34156), (836, 34117), (855, 34051), (900, 33970), (901, 33967), (935, 33886), (1009, 33736), (1010, 33733), (1018, 33697), (1032, 33673), (1035, 33664), (1039, 33652), (1066, 33577), (1079, 33556),

Gene: EhyElimayoE_67 Start: 46750, Stop: 44786, Start Num: 294
Candidate Starts for EhyElimayoE_67:
(Start: 294 @46750 has 13 MA's), (352, 46654), (409, 46546), (413, 46534), (430, 46480), (462, 46396), (512, 46261), (536, 46162), (540, 46150), (554, 46123), (559, 46108), (625, 45970), (672, 45883), (709, 45787), (748, 45679), (750, 45676), (764, 45649), (772, 45622), (780, 45592), (793, 45562), (826, 45457), (859, 45349), (861, 45340), (864, 45334), (933, 45190), (939, 45172), (948, 45154), (987, 45100), (1024, 44983), (1030, 44971), (1034, 44962), (1039, 44950), (1042, 44932), (1053, 44908), (1064, 44884), (1071, 44866),

Gene: Eidsmoe_45 Start: 31547, Stop: 29754, Start Num: 228
Candidate Starts for Eidsmoe_45:
(Start: 228 @31547 has 960 MA's), (235, 31538), (263, 31496), (342, 31376), (343, 31373), (370, 31325), (400, 31265), (411, 31235), (415, 31223), (424, 31211), (490, 31058), (570, 30965), (643, 30827), (659, 30797), (733, 30638), (742, 30626), (764, 30599), (798, 30491), (803, 30470), (851, 30335), (855, 30317), (900, 30236), (919, 30194), (949, 30119), (990, 30044), (1009, 30002), (1042, 29900), (1066, 29843), (1073, 29831), (1079, 29822),

Gene: ElTiger69_39 Start: 30184, Stop: 28286, Start Num: 195
Candidate Starts for ElTiger69_39:
(Start: 195 @30184 has 3 MA's), (Start: 228 @30151 has 960 MA's), (304, 30040), (360, 29947), (362, 29944), (399, 29875), (400, 29872), (410, 29845), (424, 29818), (430, 29809), (462, 29725), (473, 29701), (490, 29665), (556, 29605), (570, 29569), (587, 29524), (590, 29521), (606, 29500), (607, 29497), (637, 29437), (685, 29359), (703, 29311), (709, 29299), (732, 29251), (761, 29200), (803, 29065), (821, 29017), (830, 28999), (836, 28978), (840, 28969), (848, 28939), (855, 28912), (856, 28909), (900, 28831), (906, 28813), (929, 28765), (949, 28714), (977, 28660), (982, 28651), (992, 28633), (1022, 28555), (1024, 28549), (1058, 28462), (1066, 28438), (1073, 28426), (1115, 28321),

Gene: Elephantoon_44 Start: 30830, Stop: 29037, Start Num: 228
Candidate Starts for Elephantoon_44:
(Start: 228 @30830 has 960 MA's), (235, 30821), (263, 30779), (317, 30692), (342, 30659), (343, 30656), (360, 30626), (370, 30608), (400, 30548), (410, 30521), (415, 30506), (424, 30494), (489, 30344), (490, 30341), (493, 30332), (565, 30263), (570, 30248), (659, 30080), (733, 29921), (742, 29909), (764, 29882), (798, 29774), (803, 29753), (847, 29630), (855, 29600), (871, 29561), (897, 29528), (900, 29519), (949, 29402), (955, 29381), (990, 29327), (1009, 29285), (1013, 29261), (1042, 29183), (1066, 29126), (1073, 29114), (1079, 29105),

Gene: Eleri_38 Start: 28732, Stop: 26867, Start Num: 301
Candidate Starts for Eleri_38:
(Start: 301 @28732 has 153 MA's), (320, 28687), (346, 28633), (382, 28573), (402, 28522), (439, 28444), (442, 28438), (458, 28393), (459, 28390), (460, 28387), (474, 28348), (502, 28288), (582, 28165), (586, 28156), (590, 28144), (597, 28132), (607, 28114), (618, 28093), (623, 28081), (636, 28057), (706, 27910), (773, 27742), (840, 27577), (850, 27541), (855, 27520), (873, 27478), (908, 27391), (924, 27346), (965, 27247), (989, 27202), (992, 27193), (1010, 27133), (1013, 27109), (1025, 27076), (1068, 26965),

Gene: Elezi_39 Start: 30351, Stop: 32216, Start Num: 228
Candidate Starts for Elezi_39:
(Start: 228 @30351 has 960 MA's), (261, 30399), (383, 30582), (386, 30588), (410, 30648), (418, 30669), (452, 30738), (576, 30954), (622, 31044), (626, 31053), (633, 31068), (660, 31113), (707, 31206), (768, 31344), (803, 31464), (815, 31494), (836, 31551), (853, 31608), (855, 31617), (867, 31641), (898, 31710), (929, 31782), (932, 31791), (977, 31890), (1009, 31953), (1066, 32112), (1071, 32121),

Gene: Elfy_41 Start: 28904, Stop: 30769, Start Num: 228
Candidate Starts for Elfy_41:
(Start: 228 @28904 has 960 MA's), (391, 29150), (410, 29201), (411, 29204), (418, 29222), (473, 29345), (489, 29378), (570, 29492), (572, 29498), (601, 29555), (622, 29597), (626, 29606), (633, 29621), (643, 29633), (654, 29651), (686, 29711), (696, 29738), (703, 29753), (707, 29759), (712, 29771), (729, 29804), (733, 29816), (738, 29828), (767, 29894), (783, 29954), (803, 30017), (845, 30134), (848, 30143), (878, 30221), (898, 30263), (936, 30356), (976, 30440), (1009, 30506), (1013, 30530), (1014, 30533), (1032, 30569), (1035, 30578), (1042, 30608), (1066, 30665), (1071, 30674),

Gene: Elle_43 Start: 28423, Stop: 26633, Start Num: 228
Candidate Starts for Elle_43:
(Start: 228 @28423 has 960 MA's), (261, 28375), (343, 28249), (399, 28144), (400, 28141), (410, 28114), (424, 28087), (490, 27934), (570, 27841), (587, 27796), (590, 27793), (595, 27784), (654, 27685), (696, 27595), (729, 27529), (798, 27370), (803, 27349), (823, 27298), (830, 27283), (836, 27262), (840, 27253), (855, 27196), (900, 27115), (906, 27097), (992, 26917), (1018, 26842), (1042, 26779), (1066, 26722), (1073, 26710), (1082, 26698),

Gene: Ellewin_87 Start: 73695, Stop: 75488, Start Num: 238
Candidate Starts for Ellewin_87:
(Start: 238 @73695 has 11 MA's), (Start: 273 @73749 has 1 MA's), (Start: 276 @73758 has 2 MA's), (Start: 285 @73770 has 1 MA's), (429, 74007), (442, 74040), (544, 74175), (613, 74292), (626, 74319), (629, 74325), (633, 74334), (666, 74388), (729, 74520), (737, 74541), (755, 74568), (774, 74616), (783, 74649), (798, 74688), (803, 74709), (806, 74715), (845, 74832), (870, 74916), (871, 74919), (898, 74982), (902, 74994), (919, 75030), (932, 75063), (953, 75117), (960, 75135), (1002, 75219), (1009, 75240), (1014, 75267), (1036, 75315), (1038, 75321), (1041, 75339), (1045, 75351), (1049, 75363), (1053, 75366), (1066, 75399), (1083, 75426), (1094, 75450),

Gene: Elva_44 Start: 30530, Stop: 32404, Start Num: 217
Candidate Starts for Elva_44:
(Start: 215 @30527 has 12 MA's), (Start: 217 @30530 has 68 MA's), (Start: 273 @30599 has 1 MA's), (Start: 285 @30620 has 1 MA's), (399, 30800), (430, 30866), (448, 30908), (581, 31118), (590, 31136), (626, 31202), (680, 31289), (741, 31436), (783, 31556), (784, 31559), (803, 31619), (806, 31625), (823, 31670), (830, 31685), (833, 31700), (845, 31736), (855, 31772), (898, 31865), (936, 31958), (973, 32036), (975, 32039), (990, 32066), (1009, 32108), (1018, 32147), (1023, 32153), (1038, 32189), (1041, 32207), (1058, 32243), (1066, 32267), (1079, 32288),

Gene: ElvisPhasley_62 Start: 54776, Stop: 52917, Start Num: 190
Candidate Starts for ElvisPhasley_62:
(Start: 173 @54800 has 3 MA's), (Start: 190 @54776 has 336 MA's), (Start: 222 @54752 has 3 MA's), (Start: 232 @54746 has 2 MA's), (261, 54704), (274, 54683), (336, 54569), (339, 54563), (355, 54533), (390, 54473), (398, 54452), (416, 54398), (429, 54386), (436, 54368), (440, 54356), (487, 54251), (552, 54194), (569, 54158), (573, 54146), (583, 54122), (590, 54110), (601, 54092), (611, 54074), (622, 54056), (643, 54017), (648, 54008), (649, 54005), (651, 54002), (796, 53645), (804, 53612), (812, 53591), (848, 53498), (851, 53489), (877, 53426), (900, 53390), (901, 53387), (906, 53372), (939, 53294), (946, 53282), (953, 53261), (976, 53222), (1013, 53132), (1022, 53114), (1024, 53108), (1032, 53093), (1040, 53069), (1042, 53054), (1043, 53051), (1047, 53039), (1059, 53015), (1082, 52967), (1093, 52943),

Gene: EmGer13_62 Start: 54050, Stop: 52191, Start Num: 190
Candidate Starts for EmGer13_62:
(Start: 173 @54074 has 3 MA's), (Start: 190 @54050 has 336 MA's), (Start: 222 @54026 has 3 MA's), (Start: 232 @54020 has 2 MA's), (261, 53978), (274, 53957), (336, 53843), (339, 53837), (355, 53807), (390, 53747), (398, 53726), (416, 53672), (429, 53660), (436, 53642), (440, 53630), (487, 53525), (552, 53468), (569, 53432), (573, 53420), (583, 53396), (590, 53384), (601, 53366), (611, 53348), (622, 53330), (643, 53291), (648, 53282), (649, 53279), (651, 53276), (796, 52919), (804, 52886), (812, 52865), (848, 52772), (851, 52763), (877, 52700), (900, 52664), (901, 52661), (906, 52646), (939, 52568), (946, 52556), (953, 52535), (976, 52496), (1013, 52406), (1022, 52388), (1024, 52382), (1032, 52367), (1040, 52343), (1042, 52328), (1043, 52325), (1047, 52313), (1059, 52289), (1082, 52241), (1093, 52217),

Gene: EmiRose_34 Start: 30392, Stop: 28503, Start Num: 187
Candidate Starts for EmiRose_34:
(Start: 187 @30392 has 1 MA's), (274, 30284), (275, 30281), (Start: 276 @30278 has 2 MA's), (309, 30221), (364, 30110), (411, 30005), (431, 29975), (442, 29948), (447, 29939), (476, 29870), (487, 29849), (552, 29792), (569, 29756), (573, 29744), (583, 29720), (599, 29693), (611, 29669), (649, 29612), (716, 29477), (727, 29435), (734, 29417), (750, 29378), (772, 29324), (793, 29264), (804, 29219), (808, 29213), (830, 29162), (877, 29027), (901, 28988), (902, 28985), (906, 28973), (939, 28895), (946, 28883), (977, 28820), (1013, 28718), (1040, 28655), (1054, 28613), (1059, 28601), (1074, 28571), (1083, 28550), (1100, 28508),

Gene: Emiris_63 Start: 54747, Stop: 52888, Start Num: 190
Candidate Starts for Emiris_63:
(Start: 173 @54771 has 3 MA's), (Start: 190 @54747 has 336 MA's), (Start: 222 @54723 has 3 MA's), (Start: 232 @54717 has 2 MA's), (261, 54675), (274, 54654), (336, 54540), (339, 54534), (355, 54504), (390, 54444), (398, 54423), (416, 54369), (429, 54357), (436, 54339), (440, 54327), (487, 54222), (552, 54165), (569, 54129), (573, 54117), (585, 54090), (601, 54063), (611, 54045), (622, 54027), (643, 53988), (648, 53979), (649, 53976), (761, 53718), (796, 53616), (804, 53583), (812, 53562), (848, 53469), (851, 53460), (877, 53397), (900, 53361), (901, 53358), (906, 53343), (939, 53265), (946, 53253), (953, 53232), (976, 53193), (1013, 53103), (1022, 53085), (1024, 53079), (1032, 53064), (1040, 53040), (1042, 53025), (1043, 53022), (1047, 53010), (1059, 52986), (1082, 52938), (1093,

52914),

Gene: Emmetator_91 Start: 74362, Stop: 76080, Start Num: 285
Candidate Starts for Emmetator_91:
(Start: 238 @74287 has 11 MA's), (261, 74320), (Start: 273 @74341 has 1 MA's), (Start: 276 @74350 has 2 MA's), (Start: 285 @74362 has 1 MA's), (429, 74599), (439, 74626), (442, 74632), (544, 74767), (613, 74884), (626, 74911), (629, 74917), (633, 74926), (666, 74980), (729, 75112), (737, 75133), (755, 75160), (774, 75208), (783, 75241), (798, 75280), (803, 75301), (806, 75307), (845, 75424), (870, 75508), (871, 75511), (898, 75574), (902, 75586), (919, 75622), (932, 75655), (953, 75709), (960, 75727), (1002, 75811), (1009, 75832), (1014, 75859), (1036, 75907), (1038, 75913), (1041, 75931), (1045, 75943), (1049, 75955), (1053, 75958), (1066, 75991),

Gene: Emotion_46 Start: 31321, Stop: 33183, Start Num: 228
Candidate Starts for Emotion_46:
(Start: 166 @31249 has 1 MA's), (Start: 228 @31321 has 960 MA's), (400, 31591), (626, 32020), (703, 32167), (707, 32173), (768, 32311), (803, 32431), (823, 32482), (845, 32548), (898, 32677), (901, 32686), (906, 32701), (945, 32788), (976, 32854), (977, 32857), (1042, 33022), (1066, 33079),

Gene: EmpTee_60 Start: 54256, Stop: 52397, Start Num: 190
Candidate Starts for EmpTee_60:
(Start: 173 @54280 has 3 MA's), (Start: 190 @54256 has 336 MA's), (Start: 222 @54232 has 3 MA's), (Start: 232 @54226 has 2 MA's), (261, 54184), (274, 54163), (336, 54049), (339, 54043), (355, 54013), (390, 53953), (398, 53932), (416, 53878), (429, 53866), (436, 53848), (440, 53836), (487, 53731), (552, 53674), (569, 53638), (573, 53626), (583, 53602), (590, 53590), (601, 53572), (611, 53554), (622, 53536), (643, 53497), (648, 53488), (649, 53485), (651, 53482), (796, 53125), (804, 53092), (812, 53071), (848, 52978), (851, 52969), (877, 52906), (900, 52870), (901, 52867), (906, 52852), (939, 52774), (946, 52762), (953, 52741), (976, 52702), (1013, 52612), (1022, 52594), (1024, 52588), (1032, 52573), (1040, 52549), (1042, 52534), (1043, 52531), (1047, 52519), (1059, 52495), (1082, 52447), (1093, 52423),

Gene: EmyBug_44 Start: 31549, Stop: 29756, Start Num: 228
Candidate Starts for EmyBug_44:
(Start: 228 @31549 has 960 MA's), (235, 31540), (263, 31498), (342, 31378), (343, 31375), (370, 31327), (400, 31267), (411, 31237), (415, 31225), (424, 31213), (490, 31060), (570, 30967), (643, 30829), (659, 30799), (733, 30640), (742, 30628), (764, 30601), (798, 30493), (803, 30472), (851, 30337), (855, 30319), (900, 30238), (919, 30196), (949, 30121), (990, 30046), (1009, 30004), (1042, 29902), (1066, 29845), (1073, 29833), (1079, 29824),

Gene: Endor_39 Start: 29287, Stop: 27419, Start Num: 301
Candidate Starts for Endor_39:
(240, 29374), (Start: 301 @29287 has 153 MA's), (Start: 305 @29278 has 5 MA's), (433, 29014), (435, 29011), (439, 28999), (442, 28993), (545, 28807), (582, 28720), (586, 28711), (590, 28699), (606, 28672), (607, 28669), (614, 28654), (618, 28648), (623, 28636), (768, 28318), (847, 28105), (850, 28096), (855, 28075), (873, 28033), (908, 27943), (974, 27784), (989, 27754), (1010, 27685), (1013, 27661), (1028, 27622), (1040, 27589), (1044, 27577),

Gene: EnzoK_43 Start: 32376, Stop: 30550, Start Num: 228
Candidate Starts for EnzoK_43:
(Start: 228 @32376 has 960 MA's), (366, 32163), (399, 32100), (410, 32070), (418, 32049), (424, 32043), (430, 32034), (479, 31917), (490, 31890), (570, 31797), (576, 31782), (621, 31698), (622, 31695), (659, 31629), (680, 31599), (690, 31569), (709, 31524), (729, 31485), (803, 31305), (815, 31275), (821, 31257), (823, 31254), (836, 31218), (855, 31152), (900, 31071), (901, 31068), (935, 30987), (1009, 30837), (1010, 30834), (1018, 30798), (1032, 30774), (1035, 30765), (1039, 30753),

(1066, 30678), (1079, 30657),

Gene: Epah_52 Start: 52983, Stop: 51160, Start Num: 182
Candidate Starts for Epah_52:
(Start: 163 @53001 has 29 MA's), (Start: 182 @52983 has 33 MA's), (Start: 232 @52959 has 2 MA's), (249, 52932), (261, 52917), (274, 52896), (324, 52809), (386, 52704), (402, 52662), (436, 52596), (449, 52566), (452, 52557), (457, 52554), (458, 52551), (467, 52524), (552, 52431), (560, 52413), (569, 52395), (573, 52383), (580, 52368), (585, 52356), (648, 52245), (649, 52242), (664, 52212), (685, 52176), (775, 51951), (776, 51948), (787, 51912), (796, 51888), (804, 51855), (846, 51747), (848, 51741), (850, 51735), (851, 51732), (900, 51633), (901, 51630), (906, 51615), (939, 51537), (946, 51525), (953, 51504), (955, 51495), (976, 51465), (990, 51441), (1007, 51408), (1013, 51375), (1022, 51357), (1024, 51351), (1040, 51312), (1043, 51294), (1047, 51282), (1059, 51258), (1078, 51216), (1082, 51210), (1093, 51186),

Gene: EpicPhail_49 Start: 31856, Stop: 30042, Start Num: 228
Candidate Starts for EpicPhail_49:
(Start: 228 @31856 has 960 MA's), (257, 31817), (263, 31805), (360, 31652), (369, 31637), (399, 31580), (424, 31523), (430, 31514), (448, 31472), (465, 31421), (490, 31370), (570, 31277), (590, 31229), (595, 31220), (607, 31205), (626, 31166), (643, 31139), (659, 31109), (703, 31016), (732, 30956), (742, 30941), (803, 30785), (836, 30698), (855, 30632), (871, 30593), (901, 30521), (919, 30482), (929, 30458), (935, 30440), (949, 30407), (958, 30380), (992, 30326), (1013, 30266), (1042, 30188), (1066, 30131), (1073, 30119), (1079, 30110),

Gene: Epsocamisio_46 Start: 29741, Stop: 27951, Start Num: 228
Candidate Starts for Epsocamisio_46:
(Start: 228 @29741 has 960 MA's), (343, 29567), (399, 29462), (400, 29459), (410, 29432), (424, 29405), (448, 29354), (490, 29252), (570, 29159), (587, 29114), (590, 29111), (595, 29102), (686, 28940), (696, 28913), (707, 28892), (709, 28886), (768, 28787), (778, 28748), (796, 28697), (803, 28667), (823, 28616), (835, 28583), (845, 28550), (847, 28544), (855, 28514), (895, 28454), (900, 28433), (919, 28391), (930, 28364), (935, 28349), (977, 28262), (1009, 28199), (1010, 28196), (1066, 28040), (1073, 28028), (1082, 28016),

Gene: Equemioh13_45 Start: 31601, Stop: 29814, Start Num: 228
Candidate Starts for Equemioh13_45:
(Start: 228 @31601 has 960 MA's), (360, 31397), (362, 31394), (366, 31388), (384, 31358), (399, 31325), (400, 31322), (410, 31295), (424, 31268), (448, 31217), (490, 31115), (570, 31022), (590, 30974), (595, 30965), (607, 30950), (643, 30884), (686, 30803), (707, 30755), (778, 30611), (803, 30530), (823, 30479), (835, 30446), (855, 30377), (871, 30338), (895, 30317), (900, 30296), (904, 30284), (990, 30104), (992, 30098), (1009, 30062), (1013, 30038), (1042, 29960), (1066, 29903), (1073, 29891),

Gene: Eraser_39 Start: 30361, Stop: 32226, Start Num: 228
Candidate Starts for Eraser_39:
(Start: 228 @30361 has 960 MA's), (261, 30409), (383, 30592), (386, 30598), (410, 30658), (418, 30679), (452, 30748), (576, 30964), (622, 31054), (626, 31063), (633, 31078), (660, 31123), (707, 31216), (768, 31354), (803, 31474), (815, 31504), (836, 31561), (853, 31618), (855, 31627), (867, 31651), (898, 31720), (929, 31792), (932, 31801), (977, 31900), (1009, 31963), (1066, 32122), (1071, 32131),

Gene: Erasmago_107 Start: 78435, Stop: 76564, Start Num: 223
Candidate Starts for Erasmago_107:
(199, 78468), (206, 78459), (208, 78456), (Start: 223 @78435 has 3 MA's), (381, 78177), (390, 78162), (398, 78141), (413, 78099), (429, 78081), (439, 78054), (442, 78048), (488, 77955), (493, 77940),

(494, 77937), (573, 77862), (589, 77820), (596, 77808), (613, 77778), (626, 77751), (637, 77730), (660, 77691), (680, 77664), (729, 77553), (737, 77532), (767, 77484), (803, 77364), (822, 77313), (843, 77250), (869, 77166), (877, 77151), (919, 77046), (928, 77025), (932, 77013), (974, 76920), (983, 76902), (1036, 76761), (1042, 76734), (1066, 76677),

Gene: Eremos_60 Start: 54246, Stop: 52387, Start Num: 190
Candidate Starts for Eremos_60:
(Start: 173 @54270 has 3 MA's), (Start: 190 @54246 has 336 MA's), (Start: 222 @54222 has 3 MA's), (Start: 232 @54216 has 2 MA's), (261, 54174), (274, 54153), (336, 54039), (339, 54033), (355, 54003), (390, 53943), (398, 53922), (416, 53868), (429, 53856), (436, 53838), (440, 53826), (487, 53721), (552, 53664), (569, 53628), (573, 53616), (583, 53592), (590, 53580), (601, 53562), (611, 53544), (622, 53526), (643, 53487), (648, 53478), (649, 53475), (651, 53472), (796, 53115), (804, 53082), (812, 53061), (848, 52968), (851, 52959), (877, 52896), (900, 52860), (901, 52857), (906, 52842), (939, 52764), (946, 52752), (953, 52731), (976, 52692), (1013, 52602), (1022, 52584), (1024, 52578), (1032, 52563), (1040, 52539), (1042, 52524), (1043, 52521), (1047, 52509), (1059, 52485), (1082, 52437), (1093, 52413),

Gene: EricB_45 Start: 29620, Stop: 27779, Start Num: 228
Candidate Starts for EricB_45:
(Start: 228 @29620 has 960 MA's), (360, 29416), (399, 29341), (400, 29338), (410, 29311), (415, 29296), (424, 29284), (448, 29233), (485, 29143), (490, 29131), (570, 29038), (585, 28999), (595, 28981), (607, 28966), (643, 28900), (660, 28867), (663, 28864), (710, 28762), (742, 28702), (778, 28618), (803, 28537), (835, 28453), (836, 28450), (840, 28441), (847, 28414), (855, 28384), (895, 28324), (906, 28285), (1009, 28069), (1010, 28066), (1013, 28045), (1066, 27910), (1073, 27898), (1079, 27889), (1082, 27886), (1115, 27793),

Gene: Erik_36 Start: 28111, Stop: 26327, Start Num: 228
Candidate Starts for Erik_36:
(Start: 228 @28111 has 960 MA's), (379, 27877), (396, 27847), (398, 27838), (399, 27835), (415, 27790), (424, 27778), (448, 27727), (490, 27625), (498, 27604), (570, 27532), (587, 27487), (590, 27484), (617, 27442), (619, 27436), (626, 27421), (643, 27394), (696, 27289), (701, 27280), (709, 27262), (729, 27223), (767, 27166), (803, 27043), (821, 26995), (855, 26890), (856, 26887), (895, 26830), (900, 26809), (922, 26761), (951, 26686), (990, 26617), (1009, 26575), (1013, 26551), (1042, 26473), (1066, 26416), (1073, 26404), (1079, 26395), (1094, 26365), (1100, 26347),

Gene: Eris_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Eris_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (654, 30838), (657, 30832), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Erla_38 Start: 28612, Stop: 26747, Start Num: 301
Candidate Starts for Erla_38:
(Start: 241 @28699 has 3 MA's), (Start: 301 @28612 has 153 MA's), (Start: 305 @28603 has 5 MA's), (353, 28498), (360, 28489), (378, 28459), (380, 28456), (435, 28336), (439, 28324), (442, 28318), (483, 28213), (494, 28186), (582, 28045), (585, 28039), (586, 28036), (590, 28024), (606, 27997), (607, 27994), (614, 27979), (618, 27973), (621, 27967), (638, 27934), (701, 27805), (726, 27745), (847, 27430), (850, 27421), (851, 27418), (855, 27400), (873, 27358), (877, 27352), (888, 27328), (908, 27271), (974, 27112), (989, 27082), (992, 27073), (1010, 27013), (1013, 26989), (1028, 26950), (1040, 26917), (1044, 26905), (1068, 26845),

Gene: Eros_45 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Eros_45:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Espica_36 Start: 28114, Stop: 26330, Start Num: 228
Candidate Starts for Espica_36:
(Start: 228 @28114 has 960 MA's), (379, 27880), (396, 27850), (398, 27841), (399, 27838), (415, 27793), (424, 27781), (448, 27730), (490, 27628), (498, 27607), (570, 27535), (587, 27490), (590, 27487), (617, 27445), (619, 27439), (626, 27424), (643, 27397), (696, 27292), (701, 27283), (709, 27265), (729, 27226), (767, 27169), (803, 27046), (821, 26998), (855, 26893), (856, 26890), (895, 26833), (900, 26812), (922, 26764), (951, 26689), (990, 26620), (1009, 26578), (1013, 26554), (1042, 26476), (1066, 26419), (1073, 26407), (1079, 26398), (1094, 26368), (1100, 26350),

Gene: Espinosa_38 Start: 28630, Stop: 26765, Start Num: 301
Candidate Starts for Espinosa_38:
(Start: 241 @28717 has 3 MA's), (Start: 243 @28714 has 1 MA's), (Start: 301 @28630 has 153 MA's), (Start: 305 @28621 has 5 MA's), (353, 28516), (360, 28507), (378, 28477), (380, 28474), (435, 28354), (439, 28342), (442, 28336), (483, 28231), (494, 28204), (582, 28063), (585, 28057), (586, 28054), (590, 28042), (606, 28015), (607, 28012), (614, 27997), (618, 27991), (621, 27985), (638, 27952), (701, 27823), (726, 27763), (847, 27448), (850, 27439), (851, 27436), (855, 27418), (873, 27376), (877, 27370), (879, 27361), (888, 27346), (908, 27289), (974, 27130), (989, 27100), (992, 27091), (1010, 27031), (1013, 27007), (1028, 26968), (1040, 26935), (1044, 26923), (1068, 26863),

Gene: Espresso_44 Start: 34640, Stop: 32814, Start Num: 228
Candidate Starts for Espresso_44:
(Start: 228 @34640 has 960 MA's), (366, 34427), (399, 34364), (410, 34334), (418, 34313), (424, 34307), (430, 34298), (479, 34181), (490, 34154), (570, 34061), (576, 34046), (621, 33962), (622, 33959), (659, 33893), (680, 33863), (690, 33833), (709, 33788), (729, 33749), (803, 33569), (815, 33539), (821, 33521), (823, 33518), (836, 33482), (855, 33416), (900, 33335), (901, 33332), (935, 33251), (1009, 33101), (1010, 33098), (1018, 33062), (1032, 33038), (1035, 33029), (1039, 33017), (1066, 32942), (1079, 32921),

Gene: Et2Brutus_44 Start: 30698, Stop: 28911, Start Num: 228
Candidate Starts for Et2Brutus_44:
(Start: 228 @30698 has 960 MA's), (360, 30494), (399, 30422), (410, 30392), (424, 30365), (572, 30113), (595, 30062), (643, 29981), (668, 29936), (670, 29933), (707, 29852), (733, 29795), (766, 29753), (778, 29708), (803, 29627), (823, 29576), (836, 29540), (855, 29474), (895, 29414), (897, 29402), (938, 29300), (949, 29276), (954, 29258), (992, 29195), (1007, 29168), (1009, 29159), (1013, 29135), (1066, 29000), (1073, 28988), (1079, 28979),

Gene: Etaye_62 Start: 55077, Stop: 53218, Start Num: 190
Candidate Starts for Etaye_62:
(Start: 173 @55101 has 3 MA's), (Start: 190 @55077 has 336 MA's), (Start: 222 @55053 has 3 MA's), (Start: 232 @55047 has 2 MA's), (261, 55005), (274, 54984), (336, 54870), (339, 54864), (355, 54834), (390, 54774), (398, 54753), (416, 54699), (429, 54687), (436, 54669), (440, 54657), (487, 54552), (552, 54495), (569, 54459), (573, 54447), (583, 54423), (590, 54411), (601, 54393), (611, 54375), (622, 54357), (643, 54318), (648, 54309), (649, 54306), (651, 54303), (796, 53946), (804, 53913), (812, 53892), (848, 53799), (851, 53790), (877, 53727), (900, 53691), (901, 53688), (906, 53673),

(939, 53595), (946, 53583), (953, 53562), (976, 53523), (1013, 53433), (1022, 53415), (1024, 53409), (1032, 53394), (1040, 53370), (1042, 53355), (1043, 53352), (1047, 53340), (1059, 53316), (1082, 53268), (1093, 53244),

Gene: Etna_38 Start: 29066, Stop: 27201, Start Num: 301
Candidate Starts for Etna_38:
(Start: 301 @29066 has 153 MA's), (Start: 305 @29057 has 5 MA's), (433, 28793), (439, 28778), (442, 28772), (494, 28640), (545, 28586), (552, 28574), (582, 28499), (586, 28490), (590, 28478), (606, 28451), (607, 28448), (614, 28433), (618, 28427), (623, 28415), (659, 28346), (768, 28097), (847, 27884), (850, 27875), (851, 27872), (855, 27854), (873, 27812), (908, 27725), (974, 27566), (989, 27536), (1010, 27467), (1013, 27443), (1028, 27404), (1040, 27371), (1044, 27359),

Gene: EtoileNova_45 Start: 31601, Stop: 29763, Start Num: 228
Candidate Starts for EtoileNova_45:
(Start: 228 @31601 has 960 MA's), (263, 31550), (360, 31397), (399, 31325), (410, 31295), (424, 31268), (430, 31259), (490, 31115), (570, 31019), (592, 30971), (626, 30911), (681, 30824), (696, 30779), (707, 30758), (744, 30686), (767, 30644), (778, 30602), (803, 30521), (821, 30473), (836, 30434), (847, 30398), (855, 30368), (869, 30338), (901, 30257), (919, 30218), (929, 30194), (935, 30176), (936, 30173), (992, 30047), (1013, 29987), (1045, 29900), (1066, 29852), (1073, 29840), (1079, 29831),

Gene: Etta_38 Start: 28616, Stop: 26751, Start Num: 301
Candidate Starts for Etta_38:
(Start: 241 @28703 has 3 MA's), (Start: 301 @28616 has 153 MA's), (Start: 305 @28607 has 5 MA's), (353, 28502), (360, 28493), (378, 28463), (380, 28460), (435, 28340), (439, 28328), (442, 28322), (483, 28217), (494, 28190), (582, 28049), (585, 28043), (586, 28040), (590, 28028), (606, 28001), (607, 27998), (614, 27983), (618, 27977), (621, 27971), (638, 27938), (701, 27809), (726, 27749), (847, 27434), (850, 27425), (851, 27422), (855, 27404), (873, 27362), (877, 27356), (888, 27332), (908, 27275), (974, 27116), (989, 27086), (992, 27077), (1010, 27017), (1013, 26993), (1028, 26954), (1040, 26921), (1044, 26909), (1068, 26849),

Gene: EugeneKrabs_10 Start: 8417, Stop: 6180, Start Num: 163
Candidate Starts for EugeneKrabs_10:
(Start: 163 @8417 has 29 MA's), (Start: 225 @8336 has 16 MA's), (247, 8303), (Start: 285 @8252 has 1 MA's), (325, 8171), (365, 8090), (388, 8045), (395, 8030), (433, 7916), (451, 7877), (508, 7730), (511, 7709), (515, 7694), (556, 7553), (645, 7409), (673, 7355), (692, 7307), (714, 7256), (753, 7172), (773, 7115), (802, 7016), (844, 6890), (857, 6842), (858, 6839), (869, 6791), (879, 6755), (910, 6665), (947, 6581), (964, 6539), (970, 6530), (972, 6527), (1019, 6392), (1026, 6374), (1035, 6353), (1043, 6320), (1053, 6305), (1066, 6266), (1073, 6254),

Gene: Eugenia_60 Start: 54399, Stop: 52540, Start Num: 190
Candidate Starts for Eugenia_60:
(Start: 173 @54423 has 3 MA's), (Start: 190 @54399 has 336 MA's), (Start: 222 @54375 has 3 MA's), (Start: 232 @54369 has 2 MA's), (261, 54327), (274, 54306), (336, 54192), (339, 54186), (355, 54156), (390, 54096), (398, 54075), (416, 54021), (429, 54009), (436, 53991), (440, 53979), (487, 53874), (552, 53817), (569, 53781), (573, 53769), (585, 53742), (601, 53715), (611, 53697), (622, 53679), (643, 53640), (648, 53631), (649, 53628), (796, 53268), (804, 53235), (812, 53214), (848, 53121), (851, 53112), (877, 53049), (900, 53013), (901, 53010), (906, 52995), (939, 52917), (946, 52905), (953, 52884), (976, 52845), (1013, 52755), (1022, 52737), (1024, 52731), (1032, 52716), (1040, 52692), (1042, 52677), (1043, 52674), (1047, 52662), (1059, 52638), (1082, 52590), (1093, 52566),

Gene: Eula_43 Start: 29571, Stop: 31445, Start Num: 217
Candidate Starts for Eula_43:

(Start: 215 @29568 has 12 MA's), (Start: 217 @29571 has 68 MA's), (Start: 273 @29640 has 1 MA's), (Start: 285 @29661 has 1 MA's), (399, 29841), (430, 29907), (448, 29949), (626, 30243), (696, 30378), (741, 30477), (784, 30600), (803, 30660), (806, 30666), (823, 30711), (833, 30741), (845, 30777), (855, 30813), (898, 30906), (936, 30999), (973, 31077), (1009, 31149), (1018, 31188), (1038, 31230), (1041, 31248), (1066, 31308), (1079, 31329),

Gene: Euphoria_43 Start: 34128, Stop: 32302, Start Num: 228
Candidate Starts for Euphoria_43:
(Start: 228 @34128 has 960 MA's), (366, 33915), (373, 33900), (399, 33852), (410, 33822), (418, 33801), (424, 33795), (430, 33786), (479, 33669), (490, 33642), (570, 33549), (576, 33534), (590, 33501), (621, 33450), (622, 33447), (659, 33381), (680, 33351), (690, 33321), (709, 33276), (729, 33237), (803, 33057), (815, 33027), (821, 33009), (823, 33006), (836, 32970), (855, 32904), (900, 32823), (901, 32820), (935, 32739), (1009, 32589), (1010, 32586), (1018, 32550), (1032, 32526), (1035, 32517), (1039, 32505), (1042, 32487), (1045, 32478), (1066, 32430), (1079, 32409),

Gene: Euratis_35 Start: 26897, Stop: 28750, Start Num: 228
Candidate Starts for Euratis_35:
(Start: 228 @26897 has 960 MA's), (Start: 241 @26918 has 3 MA's), (278, 26978), (307, 27011), (360, 27098), (390, 27146), (410, 27200), (411, 27203), (418, 27221), (424, 27227), (447, 27275), (473, 27344), (489, 27377), (572, 27476), (599, 27533), (607, 27548), (621, 27575), (626, 27587), (635, 27605), (658, 27641), (684, 27683), (686, 27692), (703, 27734), (707, 27740), (735, 27800), (738, 27809), (784, 27938), (803, 27998), (821, 28049), (828, 28064), (845, 28121), (847, 28127), (848, 28130), (851, 28139), (855, 28157), (860, 28172), (870, 28202), (897, 28256), (936, 28352), (977, 28439), (1002, 28481), (1013, 28526), (1018, 28541), (1024, 28550), (1036, 28577), (1042, 28604), (1066, 28661), (1069, 28667), (1079, 28682), (1084, 28691),

Gene: Eurydice_46 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Eurydice_46:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Evaa_50 Start: 46072, Stop: 44267, Start Num: 225
Candidate Starts for Evaa_50:
(198, 46111), (Start: 225 @46072 has 16 MA's), (249, 46036), (304, 45955), (307, 45949), (336, 45895), (362, 45853), (457, 45658), (466, 45631), (487, 45592), (552, 45535), (569, 45499), (583, 45463), (649, 45346), (775, 45055), (787, 45016), (796, 44992), (797, 44986), (804, 44959), (810, 44947), (846, 44854), (848, 44848), (851, 44839), (875, 44776), (900, 44740), (906, 44722), (939, 44644), (946, 44632), (953, 44611), (976, 44572), (1002, 44527), (1010, 44503), (1024, 44458), (1040, 44419), (1042, 44404), (1059, 44365), (1093, 44293),

Gene: EvilGenius_47 Start: 33208, Stop: 31421, Start Num: 228
Candidate Starts for EvilGenius_47:
(Start: 228 @33208 has 960 MA's), (362, 33001), (366, 32995), (375, 32980), (384, 32965), (400, 32929), (410, 32902), (424, 32875), (435, 32854), (465, 32773), (490, 32722), (570, 32629), (590, 32581), (595, 32572), (607, 32557), (643, 32491), (707, 32362), (709, 32356), (803, 32137), (823, 32086), (835, 32053), (836, 32050), (855, 31984), (871, 31945), (895, 31924), (924, 31849), (929, 31837), (949, 31786), (982, 31723), (992, 31705), (1009, 31669), (1013, 31645), (1042, 31567), (1066, 31510), (1073, 31498), (1079, 31489),

Gene: Exile_36 Start: 30877, Stop: 32721, Start Num: 228

Candidate Starts for Exile_36:
(Start: 228 @30877 has 960 MA's), (391, 31123), (606, 31516), (626, 31558), (633, 31573), (643, 31585), (686, 31663), (696, 31690), (702, 31702), (707, 31711), (768, 31849), (803, 31969), (815, 31999), (855, 32122), (869, 32152), (898, 32215), (901, 32224), (1013, 32482), (1036, 32533), (1038, 32539), (1041, 32557), (1066, 32617),

Gene: Expelliarmus_42 Start: 30600, Stop: 28756, Start Num: 228
Candidate Starts for Expelliarmus_42:
(119, 30765), (Start: 228 @30600 has 960 MA's), (263, 30549), (343, 30426), (360, 30396), (384, 30357), (399, 30324), (410, 30294), (418, 30273), (424, 30267), (430, 30258), (465, 30165), (490, 30114), (570, 30018), (580, 29991), (587, 29973), (590, 29970), (595, 29961), (626, 29907), (643, 29880), (670, 29832), (696, 29775), (709, 29748), (733, 29697), (744, 29682), (798, 29535), (803, 29514), (815, 29484), (821, 29466), (823, 29463), (830, 29448), (836, 29427), (840, 29418), (847, 29391), (851, 29379), (855, 29361), (900, 29280), (904, 29268), (929, 29214), (942, 29178), (955, 29142), (977, 29109), (990, 29088), (992, 29082), (1010, 29043), (1013, 29022), (1022, 29004), (1066, 28887), (1073, 28875),

Gene: Exploradora_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for Exploradora_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: ExplosioNervosa_45 Start: 31573, Stop: 29780, Start Num: 228
Candidate Starts for ExplosioNervosa_45:
(Start: 228 @31573 has 960 MA's), (235, 31564), (263, 31522), (342, 31402), (343, 31399), (370, 31351), (400, 31291), (411, 31261), (415, 31249), (424, 31237), (490, 31084), (570, 30991), (643, 30853), (659, 30823), (733, 30664), (742, 30652), (764, 30625), (798, 30517), (803, 30496), (851, 30361), (855, 30343), (900, 30262), (919, 30220), (949, 30145), (990, 30070), (1009, 30028), (1042, 29926), (1066, 29869), (1073, 29857), (1079, 29848),

Gene: Eyeball_46 Start: 35014, Stop: 33227, Start Num: 228
Candidate Starts for Eyeball_46:
(Start: 228 @35014 has 960 MA's), (366, 34801), (373, 34786), (410, 34708), (418, 34687), (424, 34681), (430, 34672), (479, 34555), (490, 34528), (570, 34435), (576, 34420), (621, 34336), (622, 34333), (659, 34267), (680, 34237), (690, 34207), (709, 34162), (729, 34123), (803, 33943), (821, 33895), (836, 33856), (855, 33790), (897, 33718), (900, 33709), (935, 33625), (977, 33538), (1032, 33412), (1036, 33400), (1066, 33316), (1069, 33310),

Gene: Ezurina_39 Start: 29747, Stop: 27957, Start Num: 214
Candidate Starts for Ezurina_39:
(205, 29762), (Start: 214 @29747 has 2 MA's), (Start: 221 @29738 has 14 MA's), (299, 29615), (328, 29567), (411, 29429), (413, 29423), (439, 29375), (482, 29294), (483, 29288), (493, 29264), (570, 29195), (613, 29114), (626, 29087), (633, 29072), (672, 29009), (709, 28928), (712, 28922), (729, 28886), (748, 28850), (766, 28841), (798, 28736), (806, 28709), (836, 28628), (841, 28613), (848, 28589), (855, 28562), (871, 28523), (902, 28448), (932, 28379), (951, 28331), (958, 28310), (986, 28256), (991, 28241), (1006, 28214), (1014, 28175), (1022, 28160), (1038, 28118), (1042, 28097), (1043, 28094), (1049, 28076), (1059, 28061),

Gene: Fabyndrax_36 Start: 29521, Stop: 27620, Start Num: 296
Candidate Starts for Fabyndrax_36:
(Start: 296 @29521 has 13 MA's), (314, 29488), (346, 29422), (360, 29398), (369, 29383), (378, 29368), (382, 29362), (396, 29335), (402, 29311), (429, 29260), (431, 29254), (439, 29233), (442, 29227), (460, 29176), (474, 29137), (502, 29077), (560, 29008), (582, 28951), (586, 28942), (590, 28930), (607, 28900), (636, 28843), (706, 28696), (855, 28273), (873, 28231), (889, 28201), (897, 28180), (906, 28153), (908, 28144), (1010, 27886), (1013, 27862), (1025, 27829), (1028, 27823), (1068, 27718),

Gene: Fajezeel_47 Start: 35124, Stop: 33337, Start Num: 228
Candidate Starts for Fajezeel_47:
(Start: 228 @35124 has 960 MA's), (366, 34911), (373, 34896), (399, 34848), (410, 34818), (418, 34797), (424, 34791), (430, 34782), (479, 34665), (490, 34638), (570, 34545), (576, 34530), (590, 34497), (621, 34446), (622, 34443), (659, 34377), (680, 34347), (690, 34317), (709, 34272), (729, 34233), (803, 34053), (821, 34005), (836, 33966), (855, 33900), (897, 33828), (900, 33819), (935, 33735), (977, 33648), (1032, 33522), (1036, 33510), (1066, 33426), (1069, 33420),

Gene: Fameo_44 Start: 31472, Stop: 29685, Start Num: 228
Candidate Starts for Fameo_44:
(42, 31850), (97, 31661), (112, 31622), (Start: 228 @31472 has 960 MA's), (360, 31268), (362, 31265), (366, 31259), (375, 31244), (384, 31229), (399, 31196), (400, 31193), (410, 31166), (424, 31139), (435, 31118), (490, 30986), (570, 30893), (583, 30857), (590, 30845), (595, 30836), (607, 30821), (643, 30755), (686, 30674), (707, 30626), (709, 30620), (742, 30557), (803, 30401), (823, 30350), (835, 30317), (836, 30314), (855, 30248), (871, 30209), (895, 30188), (924, 30113), (929, 30101), (982, 29987), (992, 29969), (1007, 29942), (1009, 29933), (1013, 29909), (1042, 29831), (1066, 29774), (1073, 29762), (1079, 29753),

Gene: Fanaw_52 Start: 53739, Stop: 51916, Start Num: 182
Candidate Starts for Fanaw_52:
(Start: 163 @53757 has 29 MA's), (Start: 182 @53739 has 33 MA's), (Start: 232 @53715 has 2 MA's), (261, 53673), (274, 53652), (324, 53565), (386, 53460), (398, 53433), (402, 53418), (436, 53352), (449, 53322), (452, 53313), (457, 53310), (458, 53307), (552, 53187), (560, 53169), (569, 53151), (573, 53139), (585, 53112), (622, 53049), (643, 53010), (648, 53001), (649, 52998), (664, 52968), (685, 52932), (775, 52707), (776, 52704), (787, 52668), (796, 52644), (804, 52611), (846, 52503), (848, 52497), (851, 52488), (900, 52389), (901, 52386), (906, 52371), (919, 52347), (939, 52293), (946, 52281), (953, 52260), (955, 52251), (976, 52221), (992, 52191), (1007, 52164), (1013, 52131), (1024, 52107), (1040, 52068), (1043, 52050), (1047, 52038), (1059, 52014), (1078, 51972), (1082, 51966), (1093, 51942),

Gene: Fang_62 Start: 54292, Stop: 52433, Start Num: 190
Candidate Starts for Fang_62:
(Start: 173 @54316 has 3 MA's), (Start: 190 @54292 has 336 MA's), (Start: 222 @54268 has 3 MA's), (Start: 232 @54262 has 2 MA's), (261, 54220), (274, 54199), (336, 54085), (339, 54079), (355, 54049), (390, 53989), (398, 53968), (416, 53914), (429, 53902), (436, 53884), (440, 53872), (487, 53767), (552, 53710), (569, 53674), (573, 53662), (585, 53635), (601, 53608), (611, 53590), (622, 53572), (643, 53533), (648, 53524), (649, 53521), (761, 53263), (796, 53161), (804, 53128), (812, 53107), (848, 53014), (851, 53005), (877, 52942), (900, 52906), (901, 52903), (906, 52888), (939, 52810), (946, 52798), (953, 52777), (976, 52738), (1013, 52648), (1022, 52630), (1024, 52624), (1032, 52609), (1040, 52585), (1042, 52570), (1043, 52567), (1047, 52555), (1059, 52531), (1082, 52483), (1093, 52459),

Gene: Farber_48 Start: 31846, Stop: 30032, Start Num: 228
Candidate Starts for Farber_48:

(Start: 228 @31846 has 960 MA's), (257, 31807), (263, 31795), (360, 31642), (369, 31627), (399, 31570), (424, 31513), (430, 31504), (448, 31462), (465, 31411), (490, 31360), (552, 31306), (570, 31267), (590, 31219), (607, 31195), (626, 31156), (643, 31129), (659, 31099), (703, 31006), (709, 30994), (732, 30946), (742, 30931), (803, 30775), (823, 30724), (835, 30691), (836, 30688), (855, 30622), (871, 30583), (901, 30511), (919, 30472), (929, 30448), (935, 30430), (949, 30397), (958, 30370), (992, 30316), (1013, 30256), (1042, 30178), (1066, 30121), (1073, 30109), (1079, 30100),

Gene: FarmerDoug_38 Start: 28918, Stop: 27050, Start Num: 301
Candidate Starts for FarmerDoug_38:
(185, 29086), (218, 29041), (249, 28996), (Start: 301 @28918 has 153 MA's), (Start: 305 @28909 has 5 MA's), (431, 28651), (433, 28645), (439, 28630), (442, 28624), (494, 28492), (545, 28438), (552, 28426), (582, 28351), (586, 28342), (590, 28330), (606, 28303), (607, 28300), (614, 28285), (618, 28279), (623, 28267), (636, 28243), (847, 27736), (850, 27727), (851, 27724), (855, 27706), (873, 27664), (908, 27574), (974, 27415), (989, 27385), (1010, 27316), (1013, 27292), (1015, 27286), (1028, 27253), (1040, 27220), (1044, 27208),

Gene: Fascinus_41 Start: 33978, Stop: 32152, Start Num: 228
Candidate Starts for Fascinus_41:
(Start: 228 @33978 has 960 MA's), (366, 33765), (373, 33750), (399, 33702), (410, 33672), (418, 33651), (424, 33645), (430, 33636), (479, 33519), (490, 33492), (570, 33399), (576, 33384), (590, 33351), (621, 33300), (622, 33297), (659, 33231), (690, 33171), (709, 33126), (729, 33087), (803, 32907), (821, 32859), (836, 32820), (855, 32754), (871, 32715), (895, 32694), (900, 32673), (906, 32655), (935, 32589), (1009, 32439), (1010, 32436), (1018, 32400), (1032, 32376), (1035, 32367), (1039, 32355), (1045, 32328), (1066, 32280), (1079, 32259),

Gene: FatCactus_36 Start: 28343, Stop: 26556, Start Num: 228
Candidate Starts for FatCactus_36:
(Start: 228 @28343 has 960 MA's), (360, 28136), (362, 28133), (399, 28064), (424, 28007), (430, 27998), (465, 27905), (490, 27854), (570, 27761), (585, 27722), (587, 27716), (590, 27713), (595, 27704), (607, 27689), (635, 27632), (659, 27593), (676, 27569), (696, 27518), (703, 27503), (764, 27401), (781, 27341), (798, 27293), (803, 27272), (821, 27224), (835, 27188), (847, 27149), (855, 27119), (863, 27101), (900, 27038), (931, 26966), (949, 26921), (951, 26915), (992, 26840), (1007, 26813), (1018, 26765), (1056, 26675), (1066, 26645), (1073, 26633), (1079, 26624),

Gene: Fayely_45 Start: 31516, Stop: 29723, Start Num: 228
Candidate Starts for Fayely_45:
(Start: 228 @31516 has 960 MA's), (235, 31507), (263, 31465), (342, 31345), (343, 31342), (370, 31294), (400, 31234), (411, 31204), (415, 31192), (424, 31180), (490, 31027), (570, 30934), (643, 30796), (659, 30766), (733, 30607), (742, 30595), (764, 30568), (798, 30460), (803, 30439), (851, 30304), (855, 30286), (900, 30205), (919, 30163), (949, 30088), (990, 30013), (1009, 29971), (1042, 29869), (1066, 29812), (1073, 29800), (1079, 29791),

Gene: Faze9_56 Start: 52623, Stop: 50794, Start Num: 190
Candidate Starts for Faze9_56:
(Start: 190 @52623 has 336 MA's), (Start: 232 @52596 has 2 MA's), (Start: 255 @52566 has 8 MA's), (261, 52554), (Start: 276 @52527 has 2 MA's), (278, 52524), (284, 52515), (307, 52497), (362, 52401), (390, 52350), (399, 52326), (406, 52302), (467, 52164), (476, 52149), (482, 52140), (487, 52128), (552, 52071), (569, 52035), (573, 52023), (583, 51999), (630, 51915), (648, 51885), (649, 51882), (664, 51852), (727, 51708), (755, 51642), (775, 51591), (780, 51570), (787, 51552), (804, 51495), (831, 51438), (840, 51411), (848, 51381), (851, 51372), (875, 51306), (897, 51279), (900, 51270), (906, 51252), (919, 51228), (939, 51174), (946, 51162), (953, 51141), (992, 51072), (1013, 51012), (1022, 50994), (1036, 50961), (1040, 50949), (1042, 50934), (1043, 50931), (1047, 50919), (1059, 50895), (1060, 50892), (1082, 50844), (1083, 50841), (1093, 50820), (1100, 50799),

Gene: Fede_10 Start: 8646, Stop: 6427, Start Num: 163
Candidate Starts for Fede_10:
(Start: 163 @8646 has 29 MA's), (Start: 225 @8568 has 16 MA's), (235, 8556), (258, 8526), (266, 8514), (Start: 273 @8499 has 1 MA's), (321, 8421), (329, 8406), (341, 8376), (356, 8346), (402, 8253), (422, 8196), (456, 8112), (464, 8088), (492, 8022), (494, 8016), (499, 8004), (508, 7977), (516, 7932), (544, 7839), (571, 7773), (574, 7761), (631, 7683), (647, 7656), (686, 7575), (692, 7557), (714, 7506), (733, 7467), (753, 7422), (778, 7347), (799, 7275), (805, 7257), (844, 7137), (857, 7089), (858, 7086), (880, 6999), (898, 6936), (992, 6723), (1006, 6696), (1011, 6672), (1013, 6660), (1019, 6642), (1037, 6597), (1061, 6525), (1066, 6510), (1073, 6498),

Gene: FelixTres_53 Start: 47631, Stop: 45814, Start Num: 225
Candidate Starts for FelixTres_53:
(Start: 225 @47631 has 16 MA's), (Start: 232 @47622 has 2 MA's), (249, 47595), (259, 47583), (274, 47559), (278, 47550), (336, 47454), (362, 47412), (381, 47376), (411, 47301), (449, 47226), (487, 47148), (552, 47091), (569, 47055), (573, 47043), (580, 47028), (583, 47019), (635, 46926), (649, 46902), (658, 46884), (775, 46611), (787, 46572), (797, 46542), (804, 46515), (846, 46407), (848, 46401), (851, 46392), (897, 46302), (900, 46293), (901, 46290), (906, 46275), (939, 46197), (946, 46185), (948, 46179), (953, 46164), (981, 46116), (1007, 46068), (1013, 46035), (1024, 46011), (1040, 45972), (1042, 45957), (1059, 45912), (1093, 45840),

Gene: Fenn_46 Start: 36445, Stop: 34658, Start Num: 228
Candidate Starts for Fenn_46:
(Start: 228 @36445 has 960 MA's), (366, 36232), (373, 36217), (399, 36169), (410, 36139), (424, 36112), (430, 36103), (479, 35986), (490, 35959), (570, 35866), (576, 35851), (590, 35818), (621, 35767), (622, 35764), (659, 35698), (690, 35638), (709, 35593), (729, 35554), (803, 35374), (821, 35326), (836, 35287), (855, 35221), (897, 35149), (900, 35140), (935, 35056), (977, 34969), (1032, 34843), (1036, 34831), (1066, 34747), (1069, 34741),

Gene: Fernando_48 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for Fernando_48:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (732, 30952), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: Fibonacci_44 Start: 30330, Stop: 28543, Start Num: 228
Candidate Starts for Fibonacci_44:
(Start: 228 @30330 has 960 MA's), (360, 30126), (399, 30054), (410, 30024), (424, 29997), (572, 29745), (595, 29694), (643, 29613), (668, 29568), (670, 29565), (707, 29484), (733, 29427), (766, 29385), (778, 29340), (803, 29259), (823, 29208), (836, 29172), (855, 29106), (895, 29046), (897, 29034), (938, 28932), (949, 28908), (954, 28890), (992, 28827), (1007, 28800), (1009, 28791), (1013, 28767), (1066, 28632), (1073, 28620), (1079, 28611),

Gene: Figueroism_39 Start: 28924, Stop: 27059, Start Num: 301
Candidate Starts for Figueroism_39:
(Start: 241 @29011 has 3 MA's), (Start: 243 @29008 has 1 MA's), (Start: 301 @28924 has 153 MA's), (Start: 305 @28915 has 5 MA's), (353, 28810), (360, 28801), (378, 28771), (380, 28768), (435, 28648), (439, 28636), (442, 28630), (483, 28525), (494, 28498), (582, 28357), (585, 28351), (586, 28348), (590, 28336), (606, 28309), (607, 28306), (614, 28291), (618, 28285), (621, 28279), (638, 28246), (701, 28117), (726, 28057), (847, 27742), (850, 27733), (851, 27730), (855, 27712), (873, 27670),

(877, 27664), (879, 27655), (888, 27640), (908, 27583), (974, 27424), (989, 27394), (992, 27385), (1010, 27325), (1013, 27301), (1028, 27262), (1040, 27229), (1044, 27217), (1068, 27157),

Gene: Finalfrontier_43 Start: 30430, Stop: 32304, Start Num: 217
Candidate Starts for Finalfrontier_43:
(Start: 215 @30427 has 12 MA's), (Start: 217 @30430 has 68 MA's), (Start: 273 @30499 has 1 MA's), (Start: 285 @30520 has 1 MA's), (399, 30700), (430, 30766), (448, 30808), (626, 31102), (696, 31237), (741, 31336), (784, 31459), (803, 31519), (806, 31525), (823, 31570), (830, 31585), (833, 31600), (845, 31636), (855, 31672), (898, 31765), (936, 31858), (973, 31936), (1009, 32008), (1018, 32047), (1038, 32089), (1041, 32107), (1066, 32167), (1079, 32188),

Gene: Finny_38 Start: 28772, Stop: 26907, Start Num: 301
Candidate Starts for Finny_38:
(Start: 301 @28772 has 153 MA's), (346, 28673), (382, 28613), (402, 28562), (439, 28484), (442, 28478), (458, 28433), (459, 28430), (460, 28427), (474, 28388), (502, 28328), (582, 28205), (586, 28196), (590, 28184), (597, 28172), (607, 28154), (618, 28133), (623, 28121), (706, 27950), (773, 27782), (840, 27617), (850, 27581), (855, 27560), (873, 27518), (908, 27431), (924, 27386), (965, 27287), (989, 27242), (1010, 27173), (1013, 27149), (1025, 27116), (1068, 27005),

Gene: FiringLine_44 Start: 31266, Stop: 29479, Start Num: 228
Candidate Starts for FiringLine_44:
(84, 31521), (Start: 228 @31266 has 960 MA's), (360, 31062), (362, 31059), (366, 31053), (375, 31038), (384, 31023), (399, 30990), (400, 30987), (410, 30960), (424, 30933), (435, 30912), (448, 30882), (490, 30780), (570, 30687), (590, 30639), (595, 30630), (607, 30615), (643, 30549), (686, 30468), (707, 30420), (709, 30414), (742, 30351), (778, 30276), (803, 30195), (823, 30144), (835, 30111), (836, 30108), (855, 30042), (871, 30003), (895, 29982), (924, 29907), (931, 29889), (949, 29844), (958, 29817), (982, 29781), (990, 29769), (992, 29763), (1009, 29727), (1013, 29703), (1042, 29625), (1066, 29568), (1073, 29556), (1079, 29547),

Gene: First_0044 Start: 31142, Stop: 29355, Start Num: 228
Candidate Starts for First_0044:
(37, 31559), (Start: 228 @31142 has 960 MA's), (360, 30938), (362, 30935), (366, 30929), (375, 30914), (384, 30899), (399, 30866), (400, 30863), (410, 30836), (424, 30809), (435, 30788), (448, 30758), (490, 30656), (570, 30563), (573, 30554), (590, 30515), (595, 30506), (607, 30491), (643, 30425), (686, 30344), (707, 30296), (709, 30290), (742, 30227), (778, 30152), (803, 30071), (835, 29987), (836, 29984), (855, 29918), (871, 29879), (895, 29858), (924, 29783), (931, 29765), (935, 29753), (949, 29720), (958, 29693), (982, 29657), (992, 29639), (1009, 29603), (1013, 29579), (1038, 29522), (1042, 29501), (1066, 29444), (1073, 29432), (1079, 29423),

Gene: FiveHead_49 Start: 30580, Stop: 32442, Start Num: 228
Candidate Starts for FiveHead_49:
(Start: 228 @30580 has 960 MA's), (261, 30628), (366, 30793), (410, 30877), (442, 30943), (579, 31189), (626, 31279), (703, 31426), (707, 31432), (745, 31516), (803, 31690), (835, 31774), (845, 31807), (898, 31936), (901, 31945), (945, 32047), (1024, 32227), (1042, 32281), (1066, 32338),

Gene: Flake_61 Start: 54288, Stop: 52429, Start Num: 190
Candidate Starts for Flake_61:
(Start: 173 @54312 has 3 MA's), (Start: 190 @54288 has 336 MA's), (Start: 222 @54264 has 3 MA's), (Start: 232 @54258 has 2 MA's), (261, 54216), (274, 54195), (336, 54081), (339, 54075), (355, 54045), (390, 53985), (398, 53964), (416, 53910), (429, 53898), (436, 53880), (440, 53868), (487, 53763), (552, 53706), (569, 53670), (573, 53658), (585, 53631), (611, 53586), (643, 53529), (648, 53520), (649, 53517), (796, 53157), (804, 53124), (812, 53103), (848, 53010), (851, 53001), (877, 52938), (900, 52902), (901, 52899), (906, 52884), (939, 52806), (946, 52794), (953, 52773), (976, 52734),

(1013, 52644), (1022, 52626), (1024, 52620), (1032, 52605), (1040, 52581), (1042, 52566), (1043, 52563), (1047, 52551), (1059, 52527), (1082, 52479), (1093, 52455),

Gene: FlameThrower_40 Start: 29788, Stop: 31659, Start Num: 217
Candidate Starts for FlameThrower_40:
(Start: 217 @29788 has 68 MA's), (Start: 273 @29857 has 1 MA's), (342, 29962), (346, 29971), (430, 30124), (473, 30220), (479, 30229), (529, 30274), (582, 30379), (605, 30415), (626, 30460), (633, 30475), (686, 30568), (803, 30874), (823, 30925), (830, 30940), (845, 30991), (855, 31027), (898, 31120), (929, 31192), (973, 31291), (1009, 31363), (1013, 31387), (1038, 31444), (1058, 31498), (1066, 31522), (1079, 31543),

Gene: Flare16_44 Start: 31360, Stop: 29573, Start Num: 228
Candidate Starts for Flare16_44:
(Start: 228 @31360 has 960 MA's), (360, 31156), (362, 31153), (366, 31147), (384, 31117), (399, 31084), (400, 31081), (410, 31054), (424, 31027), (448, 30976), (490, 30874), (570, 30781), (590, 30733), (595, 30724), (607, 30709), (643, 30643), (686, 30562), (707, 30514), (778, 30370), (803, 30289), (823, 30238), (835, 30205), (855, 30136), (871, 30097), (895, 30076), (900, 30055), (904, 30043), (990, 29863), (992, 29857), (1009, 29821), (1013, 29797), (1042, 29719), (1066, 29662), (1073, 29650),

Gene: Flaverint_45 Start: 30777, Stop: 28990, Start Num: 228
Candidate Starts for Flaverint_45:
(Start: 228 @30777 has 960 MA's), (360, 30573), (399, 30501), (410, 30471), (424, 30444), (572, 30192), (595, 30141), (643, 30060), (668, 30015), (733, 29874), (766, 29832), (778, 29787), (803, 29706), (823, 29655), (836, 29619), (855, 29553), (895, 29493), (897, 29481), (938, 29379), (949, 29355), (954, 29337), (992, 29274), (1007, 29247), (1009, 29238), (1013, 29214), (1066, 29079), (1073, 29067), (1079, 29058),

Gene: FleetyMac_61 Start: 54230, Stop: 52371, Start Num: 190
Candidate Starts for FleetyMac_61:
(Start: 173 @54254 has 3 MA's), (Start: 190 @54230 has 336 MA's), (Start: 222 @54206 has 3 MA's), (Start: 232 @54200 has 2 MA's), (261, 54158), (274, 54137), (336, 54023), (339, 54017), (355, 53987), (390, 53927), (398, 53906), (416, 53852), (429, 53840), (436, 53822), (440, 53810), (487, 53705), (552, 53648), (569, 53612), (573, 53600), (583, 53576), (590, 53564), (601, 53546), (611, 53528), (622, 53510), (643, 53471), (648, 53462), (649, 53459), (651, 53456), (796, 53099), (804, 53066), (812, 53045), (848, 52952), (851, 52943), (877, 52880), (900, 52844), (901, 52841), (906, 52826), (939, 52748), (946, 52736), (953, 52715), (976, 52676), (1013, 52586), (1022, 52568), (1024, 52562), (1032, 52547), (1040, 52523), (1042, 52508), (1043, 52505), (1047, 52493), (1059, 52469), (1082, 52421), (1093, 52397),

Gene: Floof_49 Start: 32023, Stop: 33888, Start Num: 227
Candidate Starts for Floof_49:
(Start: 227 @32023 has 33 MA's), (410, 32320), (473, 32464), (572, 32617), (597, 32668), (626, 32725), (703, 32872), (707, 32878), (733, 32935), (736, 32941), (778, 33055), (803, 33136), (828, 33199), (843, 33247), (845, 33253), (856, 33292), (922, 33436), (926, 33448), (932, 33463), (936, 33475), (976, 33559), (1022, 33667), (1040, 33712), (1066, 33784), (1112, 33883),

Gene: FloraSnap32_99 Start: 77347, Stop: 79143, Start Num: 238
Candidate Starts for FloraSnap32_99:
(Start: 238 @77347 has 11 MA's), (Start: 296 @77440 has 13 MA's), (304, 77443), (429, 77659), (439, 77686), (442, 77692), (479, 77761), (493, 77797), (613, 77944), (616, 77950), (626, 77971), (633, 77986), (729, 78175), (753, 78220), (769, 78253), (774, 78271), (781, 78298), (783, 78304), (798, 78343), (803, 78364), (806, 78370), (845, 78484), (870, 78568), (876, 78574), (879, 78586), (898,

78634), (902, 78646), (919, 78682), (932, 78715), (935, 78724), (953, 78769), (960, 78787), (1002, 78871), (1009, 78892), (1014, 78919), (1022, 78934), (1036, 78967), (1041, 78991), (1049, 79015), (1066, 79051), (1083, 79078),

Gene: Florean_45 Start: 31569, Stop: 29743, Start Num: 228
Candidate Starts for Florean_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: Florence1_37 Start: 30018, Stop: 28174, Start Num: 228
Candidate Starts for Florence1_37:
(Start: 228 @30018 has 960 MA's), (263, 29967), (304, 29907), (343, 29844), (360, 29814), (362, 29811), (396, 29754), (399, 29742), (410, 29712), (424, 29685), (490, 29532), (570, 29436), (590, 29388), (637, 29304), (643, 29298), (685, 29226), (696, 29193), (703, 29178), (709, 29166), (761, 29067), (803, 28932), (815, 28902), (821, 28884), (823, 28881), (836, 28845), (840, 28836), (845, 28815), (848, 28806), (855, 28779), (856, 28776), (895, 28719), (900, 28698), (949, 28581), (977, 28527), (982, 28518), (992, 28500), (1022, 28422), (1041, 28365), (1058, 28329), (1066, 28305), (1073, 28293),

Gene: Florence4_38 Start: 30018, Stop: 28174, Start Num: 228
Candidate Starts for Florence4_38:
(Start: 228 @30018 has 960 MA's), (263, 29967), (304, 29907), (343, 29844), (360, 29814), (362, 29811), (396, 29754), (399, 29742), (410, 29712), (424, 29685), (490, 29532), (570, 29436), (590, 29388), (637, 29304), (643, 29298), (685, 29226), (696, 29193), (703, 29178), (709, 29166), (761, 29067), (803, 28932), (815, 28902), (821, 28884), (823, 28881), (836, 28845), (840, 28836), (845, 28815), (848, 28806), (855, 28779), (856, 28776), (895, 28719), (900, 28698), (949, 28581), (977, 28527), (982, 28518), (992, 28500), (1022, 28422), (1041, 28365), (1058, 28329), (1066, 28305), (1073, 28293),

Gene: FluffyNinja_62 Start: 54312, Stop: 52453, Start Num: 190
Candidate Starts for FluffyNinja_62:
(Start: 173 @54336 has 3 MA's), (Start: 190 @54312 has 336 MA's), (Start: 222 @54288 has 3 MA's), (Start: 232 @54282 has 2 MA's), (261, 54240), (274, 54219), (336, 54105), (339, 54099), (355, 54069), (390, 54009), (398, 53988), (416, 53934), (429, 53922), (436, 53904), (440, 53892), (487, 53787), (552, 53730), (569, 53694), (573, 53682), (583, 53658), (590, 53646), (601, 53628), (611, 53610), (622, 53592), (643, 53553), (648, 53544), (649, 53541), (651, 53538), (796, 53181), (804, 53148), (812, 53127), (848, 53034), (851, 53025), (877, 52962), (900, 52926), (901, 52923), (906, 52908), (939, 52830), (946, 52818), (953, 52797), (976, 52758), (1013, 52668), (1022, 52650), (1024, 52644), (1032, 52629), (1040, 52605), (1042, 52590), (1043, 52587), (1047, 52575), (1059, 52551), (1082, 52503), (1093, 52479),

Gene: Flutur_40 Start: 29934, Stop: 31799, Start Num: 228
Candidate Starts for Flutur_40:
(Start: 228 @29934 has 960 MA's), (261, 29982), (410, 30231), (452, 30321), (572, 30528), (576, 30537), (622, 30627), (626, 30636), (633, 30651), (660, 30696), (686, 30741), (707, 30789), (733, 30846), (768, 30927), (795, 31014), (803, 31047), (815, 31077), (836, 31134), (855, 31200), (867, 31224), (898, 31293), (929, 31365), (977, 31473), (1009, 31536), (1013, 31560), (1058, 31671), (1066, 31695), (1071, 31704),

Gene: Flux_45 Start: 31569, Stop: 29743, Start Num: 228

Candidate Starts for Flux_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: FlyCatcher_47 Start: 33412, Stop: 31577, Start Num: 228
Candidate Starts for FlyCatcher_47:
(Start: 228 @33412 has 960 MA's), (Start: 241 @33391 has 3 MA's), (304, 33301), (388, 33163), (418, 33085), (424, 33079), (490, 32926), (566, 32842), (570, 32830), (587, 32785), (592, 32782), (626, 32722), (657, 32671), (663, 32659), (707, 32569), (729, 32524), (767, 32455), (778, 32413), (798, 32353), (803, 32332), (821, 32284), (840, 32236), (847, 32209), (848, 32206), (855, 32179), (871, 32140), (901, 32071), (919, 32032), (935, 31990), (936, 31987), (949, 31957), (992, 31861), (1007, 31834), (1018, 31786), (1022, 31783), (1066, 31666), (1073, 31654), (1079, 31645),

Gene: ForDig_52 Start: 52484, Stop: 50643, Start Num: 184
Candidate Starts for ForDig_52:
(Start: 184 @52484 has 3 MA's), (249, 52427), (261, 52412), (304, 52346), (362, 52238), (390, 52187), (391, 52184), (399, 52163), (416, 52112), (419, 52106), (435, 52088), (452, 52046), (457, 52043), (467, 52013), (552, 51920), (569, 51884), (573, 51872), (601, 51818), (633, 51758), (648, 51734), (649, 51731), (685, 51665), (776, 51431), (780, 51413), (787, 51395), (804, 51338), (846, 51230), (848, 51224), (851, 51215), (875, 51152), (900, 51116), (901, 51113), (906, 51098), (939, 51020), (946, 51008), (953, 50987), (954, 50981), (976, 50948), (992, 50918), (1002, 50903), (1009, 50882), (1013, 50858), (1024, 50834), (1040, 50795), (1041, 50783), (1042, 50780), (1043, 50777), (1047, 50765), (1059, 50741), (1093, 50669), (1100, 50648),

Gene: ForGetIt_38 Start: 30371, Stop: 28527, Start Num: 228
Candidate Starts for ForGetIt_38:
(Start: 228 @30371 has 960 MA's), (263, 30320), (304, 30260), (343, 30197), (360, 30167), (362, 30164), (396, 30107), (399, 30095), (410, 30065), (424, 30038), (465, 29936), (473, 29921), (490, 29885), (556, 29825), (570, 29789), (590, 29741), (637, 29657), (643, 29651), (685, 29579), (696, 29546), (703, 29531), (709, 29519), (761, 29420), (803, 29285), (815, 29255), (821, 29237), (823, 29234), (836, 29198), (840, 29189), (845, 29168), (848, 29159), (855, 29132), (856, 29129), (895, 29072), (900, 29051), (949, 28934), (977, 28880), (982, 28871), (992, 28853), (1022, 28775), (1041, 28718), (1058, 28682), (1066, 28658), (1073, 28646),

Gene: Forester_47 Start: 32956, Stop: 34821, Start Num: 227
Candidate Starts for Forester_47:
(1, 32014), (2, 32038), (138, 32830), (183, 32899), (Start: 227 @32956 has 33 MA's), (410, 33253), (473, 33397), (572, 33550), (643, 33685), (681, 33745), (703, 33805), (707, 33811), (733, 33868), (736, 33874), (803, 34069), (828, 34132), (845, 34186), (847, 34192), (922, 34369), (929, 34387), (932, 34396), (936, 34408), (976, 34492), (1022, 34600), (1040, 34645), (1066, 34717), (1104, 34795), (1112, 34816),

Gene: ForesterFrank_44 Start: 32372, Stop: 30585, Start Num: 228
Candidate Starts for ForesterFrank_44:
(Start: 228 @32372 has 960 MA's), (360, 32168), (362, 32165), (366, 32159), (375, 32144), (384, 32129), (399, 32096), (400, 32093), (410, 32066), (424, 32039), (435, 32018), (448, 31988), (490, 31886), (570, 31793), (590, 31745), (595, 31736), (607, 31721), (643, 31655), (686, 31574), (707, 31526), (803, 31301), (823, 31250), (835, 31217), (836, 31214), (855, 31148), (871, 31109), (895, 31088), (924, 31013), (929, 31001), (949, 30950), (958, 30923), (982, 30887), (1009, 30833), (1013, 30809), (1038, 30752), (1042, 30731), (1066, 30674), (1073, 30662), (1079, 30653), (1082, 30650),

Gene: Forsytheast_44 Start: 34479, Stop: 32653, Start Num: 228
Candidate Starts for Forsytheast_44:
(Start: 228 @34479 has 960 MA's), (366, 34266), (373, 34251), (410, 34173), (418, 34152), (424, 34146), (430, 34137), (479, 34020), (490, 33993), (570, 33900), (576, 33885), (583, 33864), (590, 33852), (621, 33801), (622, 33798), (659, 33732), (680, 33702), (690, 33672), (709, 33627), (729, 33588), (803, 33408), (821, 33360), (836, 33321), (855, 33255), (871, 33216), (895, 33195), (900, 33174), (906, 33156), (935, 33090), (1009, 32940), (1010, 32937), (1018, 32901), (1032, 32877), (1035, 32868), (1039, 32856), (1066, 32781), (1079, 32760),

Gene: Fortunato_54 Start: 54011, Stop: 52170, Start Num: 163
Candidate Starts for Fortunato_54:
(Start: 163 @54011 has 29 MA's), (Start: 182 @53993 has 33 MA's), (Start: 232 @53969 has 2 MA's), (249, 53942), (261, 53927), (274, 53906), (324, 53819), (386, 53714), (398, 53687), (402, 53672), (436, 53606), (449, 53576), (452, 53567), (457, 53564), (458, 53561), (552, 53441), (560, 53423), (569, 53405), (573, 53393), (585, 53366), (622, 53303), (643, 53264), (648, 53255), (649, 53252), (664, 53222), (685, 53186), (775, 52961), (776, 52958), (787, 52922), (804, 52865), (846, 52757), (848, 52751), (851, 52742), (900, 52643), (901, 52640), (906, 52625), (939, 52547), (946, 52535), (953, 52514), (955, 52505), (976, 52475), (992, 52445), (1007, 52418), (1013, 52385), (1024, 52361), (1040, 52322), (1043, 52304), (1047, 52292), (1059, 52268), (1078, 52226), (1082, 52220), (1093, 52196),

Gene: Forza_174 Start: 99637, Stop: 97856, Start Num: 230
Candidate Starts for Forza_174:
(Start: 230 @99637 has 52 MA's), (263, 99592), (Start: 276 @99565 has 2 MA's), (342, 99472), (381, 99412), (383, 99409), (388, 99400), (398, 99376), (413, 99334), (414, 99331), (439, 99286), (462, 99244), (488, 99190), (570, 99106), (613, 99022), (626, 98995), (633, 98980), (717, 98821), (729, 98797), (735, 98782), (742, 98773), (781, 98686), (792, 98659), (793, 98656), (798, 98635), (803, 98614), (822, 98563), (851, 98479), (857, 98452), (869, 98419), (888, 98377), (932, 98266), (942, 98239), (956, 98203), (961, 98194), (963, 98191), (969, 98182), (1014, 98062), (1024, 98041), (1027, 98035), (1040, 98002), (1043, 97984), (1045, 97978), (1061, 97945), (1066, 97930), (1084, 97906), (1085, 97903), (1097, 97879),

Gene: Fozzie_61 Start: 54537, Stop: 52678, Start Num: 190
Candidate Starts for Fozzie_61:
(Start: 173 @54561 has 3 MA's), (Start: 190 @54537 has 336 MA's), (Start: 222 @54513 has 3 MA's), (Start: 232 @54507 has 2 MA's), (261, 54465), (274, 54444), (336, 54330), (339, 54324), (355, 54294), (390, 54234), (398, 54213), (416, 54159), (429, 54147), (436, 54129), (440, 54117), (487, 54012), (552, 53955), (569, 53919), (573, 53907), (583, 53883), (590, 53871), (601, 53853), (611, 53835), (622, 53817), (643, 53778), (648, 53769), (649, 53766), (651, 53763), (796, 53406), (804, 53373), (812, 53352), (848, 53259), (851, 53250), (877, 53187), (900, 53151), (901, 53148), (906, 53133), (939, 53055), (946, 53043), (953, 53022), (976, 52983), (1013, 52893), (1022, 52875), (1024, 52869), (1032, 52854), (1040, 52830), (1042, 52815), (1043, 52812), (1047, 52800), (1059, 52776), (1082, 52728), (1093, 52704),

Gene: Francis47_44 Start: 35450, Stop: 33624, Start Num: 228
Candidate Starts for Francis47_44:
(Start: 228 @35450 has 960 MA's), (366, 35237), (373, 35222), (410, 35144), (418, 35123), (424, 35117), (430, 35108), (479, 34991), (490, 34964), (570, 34871), (576, 34856), (590, 34823), (621, 34772), (622, 34769), (659, 34703), (680, 34673), (690, 34643), (709, 34598), (729, 34559), (803, 34379), (815, 34349), (821, 34331), (823, 34328), (836, 34292), (855, 34226), (900, 34145), (901, 34142), (935, 34061), (1004, 33926), (1009, 33911), (1010, 33908), (1018, 33872), (1032, 33848), (1035, 33839), (1039, 33827), (1045, 33800), (1066, 33752), (1079, 33731),

Gene: Frankenweenie_74 Start: 49485, Stop: 47518, Start Num: 294
Candidate Starts for Frankenweenie_74:
(254, 49545), (Start: 294 @49485 has 13 MA's), (352, 49389), (397, 49317), (409, 49281), (413, 49269), (430, 49215), (450, 49167), (482, 49089), (501, 49041), (521, 48948), (525, 48936), (535, 48900), (540, 48885), (554, 48858), (566, 48831), (603, 48750), (625, 48705), (645, 48669), (672, 48618), (762, 48384), (771, 48357), (793, 48294), (811, 48234), (826, 48189), (848, 48123), (856, 48093), (861, 48072), (864, 48066), (939, 47904), (948, 47886), (987, 47832), (1024, 47715), (1030, 47703), (1034, 47694), (1039, 47682), (1042, 47664), (1064, 47616),

Gene: Frankicide_59 Start: 54077, Stop: 52218, Start Num: 190
Candidate Starts for Frankicide_59:
(Start: 173 @54101 has 3 MA's), (Start: 190 @54077 has 336 MA's), (Start: 222 @54053 has 3 MA's), (Start: 232 @54047 has 2 MA's), (261, 54005), (274, 53984), (336, 53870), (339, 53864), (355, 53834), (390, 53774), (398, 53753), (416, 53699), (429, 53687), (436, 53669), (440, 53657), (487, 53552), (552, 53495), (569, 53459), (573, 53447), (585, 53420), (590, 53411), (611, 53375), (643, 53318), (648, 53309), (649, 53306), (651, 53303), (796, 52946), (804, 52913), (812, 52892), (848, 52799), (851, 52790), (877, 52727), (900, 52691), (901, 52688), (906, 52673), (939, 52595), (946, 52583), (953, 52562), (976, 52523), (1013, 52433), (1022, 52415), (1024, 52409), (1032, 52394), (1040, 52370), (1042, 52355), (1043, 52352), (1047, 52340), (1059, 52316), (1082, 52268), (1093, 52244),

Gene: Franklin22_41 Start: 28031, Stop: 29905, Start Num: 217
Candidate Starts for Franklin22_41:
(Start: 215 @28028 has 12 MA's), (Start: 217 @28031 has 68 MA's), (Start: 273 @28100 has 1 MA's), (360, 28238), (430, 28367), (436, 28382), (473, 28463), (626, 28703), (633, 28718), (654, 28748), (696, 28838), (759, 29012), (784, 29090), (803, 29150), (848, 29276), (855, 29303), (898, 29396), (929, 29468), (973, 29567), (975, 29570), (976, 29573), (1038, 29720), (1041, 29738), (1066, 29798), (1079, 29819), (1090, 29843), (1108, 29888),

Gene: Fred313_45 Start: 31127, Stop: 29289, Start Num: 228
Candidate Starts for Fred313_45:
(171, 31199), (Start: 228 @31127 has 960 MA's), (263, 31076), (360, 30923), (396, 30863), (399, 30851), (424, 30794), (430, 30785), (435, 30773), (480, 30665), (490, 30641), (570, 30545), (592, 30497), (626, 30437), (663, 30374), (696, 30305), (707, 30284), (742, 30215), (746, 30209), (767, 30170), (803, 30047), (836, 29960), (847, 29924), (855, 29894), (869, 29864), (901, 29783), (919, 29744), (929, 29720), (935, 29702), (992, 29573), (1013, 29513), (1066, 29378), (1073, 29366), (1079, 29357),

Gene: Frederick_54 Start: 53929, Stop: 52085, Start Num: 163
Candidate Starts for Frederick_54:
(Start: 163 @53929 has 29 MA's), (Start: 182 @53911 has 33 MA's), (Start: 232 @53884 has 2 MA's), (249, 53857), (261, 53842), (274, 53821), (324, 53734), (386, 53629), (398, 53602), (402, 53587), (436, 53521), (449, 53491), (452, 53482), (457, 53479), (458, 53476), (467, 53449), (487, 53413), (552, 53356), (560, 53338), (569, 53320), (573, 53308), (585, 53281), (622, 53218), (643, 53179), (648, 53170), (649, 53167), (664, 53137), (685, 53101), (775, 52876), (776, 52873), (787, 52837), (804, 52780), (846, 52672), (848, 52666), (851, 52657), (900, 52558), (901, 52555), (906, 52540), (939, 52462), (946, 52450), (953, 52429), (955, 52420), (976, 52390), (992, 52360), (1007, 52333), (1013, 52300), (1024, 52276), (1040, 52237), (1043, 52219), (1047, 52207), (1059, 52183), (1078, 52141), (1082, 52135), (1093, 52111),

Gene: FremontTroll_61 Start: 54644, Stop: 52785, Start Num: 190
Candidate Starts for FremontTroll_61:

(Start: 173 @54668 has 3 MA's), (Start: 190 @54644 has 336 MA's), (Start: 222 @54620 has 3 MA's), (Start: 232 @54614 has 2 MA's), (261, 54572), (274, 54551), (336, 54437), (339, 54431), (355, 54401), (390, 54341), (398, 54320), (416, 54266), (429, 54254), (436, 54236), (440, 54224), (487, 54119), (552, 54062), (569, 54026), (573, 54014), (585, 53987), (601, 53960), (611, 53942), (622, 53924), (643, 53885), (648, 53876), (649, 53873), (761, 53615), (796, 53513), (804, 53480), (812, 53459), (848, 53366), (851, 53357), (877, 53294), (900, 53258), (901, 53255), (906, 53240), (939, 53162), (946, 53150), (953, 53129), (976, 53090), (1013, 53000), (1022, 52982), (1024, 52976), (1032, 52961), (1040, 52937), (1042, 52922), (1043, 52919), (1047, 52907), (1059, 52883), (1082, 52835), (1093, 52811),

Gene: FrenchFry_57 Start: 52599, Stop: 50770, Start Num: 190
Candidate Starts for FrenchFry_57:
(Start: 190 @52599 has 336 MA's), (Start: 232 @52572 has 2 MA's), (Start: 255 @52542 has 8 MA's), (261, 52530), (Start: 276 @52503 has 2 MA's), (278, 52500), (284, 52491), (307, 52473), (362, 52377), (390, 52326), (399, 52302), (406, 52278), (467, 52140), (482, 52116), (487, 52104), (552, 52047), (569, 52011), (573, 51999), (583, 51975), (630, 51891), (648, 51861), (649, 51858), (664, 51828), (727, 51684), (755, 51618), (771, 51579), (775, 51567), (780, 51546), (787, 51528), (804, 51471), (840, 51387), (848, 51357), (851, 51348), (875, 51282), (897, 51255), (900, 51246), (906, 51228), (919, 51204), (939, 51150), (946, 51138), (953, 51117), (992, 51048), (1013, 50988), (1022, 50970), (1036, 50937), (1040, 50925), (1042, 50910), (1043, 50907), (1047, 50895), (1059, 50871), (1060, 50868), (1082, 50820), (1083, 50817), (1093, 50796), (1100, 50775),

Gene: Fresco_51 Start: 45981, Stop: 44164, Start Num: 225
Candidate Starts for Fresco_51:
(53, 46302), (61, 46278), (Start: 225 @45981 has 16 MA's), (249, 45945), (261, 45930), (278, 45900), (351, 45774), (411, 45651), (416, 45636), (440, 45594), (487, 45498), (569, 45405), (635, 45276), (649, 45252), (780, 44940), (787, 44922), (804, 44865), (848, 44751), (851, 44742), (877, 44679), (901, 44640), (906, 44625), (939, 44547), (946, 44535), (953, 44514), (955, 44505), (1007, 44418), (1014, 44382), (1018, 44370), (1037, 44331), (1040, 44322), (1042, 44307), (1059, 44262), (1082, 44214), (1093, 44190),

Gene: Freya_58 Start: 53738, Stop: 51879, Start Num: 190
Candidate Starts for Freya_58:
(Start: 173 @53762 has 3 MA's), (Start: 190 @53738 has 336 MA's), (Start: 222 @53714 has 3 MA's), (Start: 232 @53708 has 2 MA's), (261, 53666), (274, 53645), (336, 53531), (339, 53525), (355, 53495), (390, 53435), (398, 53414), (416, 53360), (429, 53348), (436, 53330), (440, 53318), (487, 53213), (552, 53156), (569, 53120), (573, 53108), (585, 53081), (601, 53054), (611, 53036), (622, 53018), (643, 52979), (648, 52970), (649, 52967), (761, 52709), (796, 52607), (804, 52574), (812, 52553), (848, 52460), (851, 52451), (877, 52388), (900, 52352), (901, 52349), (906, 52334), (939, 52256), (946, 52244), (953, 52223), (976, 52184), (1013, 52094), (1022, 52076), (1024, 52070), (1032, 52055), (1040, 52031), (1042, 52016), (1043, 52013), (1047, 52001), (1059, 51977), (1082, 51929), (1093, 51905),

Gene: FriarPreacher_60 Start: 54124, Stop: 52265, Start Num: 190
Candidate Starts for FriarPreacher_60:
(Start: 173 @54148 has 3 MA's), (Start: 190 @54124 has 336 MA's), (Start: 222 @54100 has 3 MA's), (Start: 232 @54094 has 2 MA's), (261, 54052), (274, 54031), (336, 53917), (339, 53911), (355, 53881), (390, 53821), (398, 53800), (416, 53746), (429, 53734), (436, 53716), (440, 53704), (487, 53599), (552, 53542), (569, 53506), (573, 53494), (583, 53470), (590, 53458), (601, 53440), (611, 53422), (622, 53404), (643, 53365), (648, 53356), (649, 53353), (651, 53350), (796, 52993), (804, 52960), (812, 52939), (848, 52846), (851, 52837), (877, 52774), (900, 52738), (901, 52735), (906, 52720), (939, 52642), (946, 52630), (953, 52609), (976, 52570), (1013, 52480), (1022, 52462), (1024, 52456), (1032, 52441), (1040, 52417), (1042, 52402), (1043, 52399), (1047, 52387), (1059, 52363), (1082,

52315), (1093, 52291),

Gene: Fringe_64 Start: 54914, Stop: 53055, Start Num: 190
Candidate Starts for Fringe_64:
(Start: 173 @54938 has 3 MA's), (Start: 190 @54914 has 336 MA's), (Start: 222 @54890 has 3 MA's), (Start: 232 @54884 has 2 MA's), (261, 54842), (274, 54821), (336, 54707), (339, 54701), (355, 54671), (390, 54611), (398, 54590), (416, 54536), (429, 54524), (436, 54506), (440, 54494), (487, 54389), (552, 54332), (569, 54296), (573, 54284), (583, 54260), (590, 54248), (601, 54230), (611, 54212), (622, 54194), (643, 54155), (648, 54146), (649, 54143), (651, 54140), (796, 53783), (804, 53750), (812, 53729), (848, 53636), (851, 53627), (877, 53564), (900, 53528), (901, 53525), (906, 53510), (939, 53432), (946, 53420), (953, 53399), (976, 53360), (1013, 53270), (1022, 53252), (1024, 53246), (1032, 53231), (1040, 53207), (1042, 53192), (1043, 53189), (1047, 53177), (1059, 53153), (1082, 53105), (1093, 53081),

Gene: Froghopper_43 Start: 34120, Stop: 32291, Start Num: 228
Candidate Starts for Froghopper_43:
(Start: 228 @34120 has 960 MA's), (366, 33907), (373, 33892), (399, 33844), (410, 33814), (418, 33793), (424, 33787), (430, 33778), (479, 33661), (490, 33634), (570, 33541), (576, 33526), (621, 33442), (622, 33439), (659, 33373), (680, 33343), (690, 33313), (709, 33268), (729, 33229), (803, 33049), (821, 33001), (840, 32953), (851, 32914), (855, 32896), (871, 32857), (895, 32836), (900, 32815), (905, 32800), (955, 32677), (1036, 32506), (1041, 32482), (1062, 32434), (1066, 32422), (1079, 32401), (1083, 32395), (1102, 32347), (1109, 32332),

Gene: FrostedClock_102 Start: 78647, Stop: 80443, Start Num: 238
Candidate Starts for FrostedClock_102:
(236, 78644), (Start: 238 @78647 has 11 MA's), (261, 78680), (307, 78749), (342, 78803), (411, 78935), (429, 78959), (439, 78986), (442, 78992), (479, 79061), (493, 79097), (613, 79244), (616, 79250), (626, 79271), (633, 79286), (729, 79475), (753, 79520), (769, 79553), (774, 79571), (783, 79604), (798, 79643), (803, 79664), (806, 79670), (845, 79784), (870, 79868), (876, 79874), (879, 79886), (898, 79934), (902, 79946), (919, 79982), (932, 80015), (935, 80024), (953, 80069), (960, 80087), (1002, 80171), (1009, 80192), (1014, 80219), (1022, 80234), (1036, 80267), (1041, 80291), (1049, 80315), (1066, 80351), (1083, 80378),

Gene: Fudan_137 Start: 73963, Stop: 75999, Start Num: 255
Candidate Starts for Fudan_137:
(Start: 255 @73963 has 8 MA's), (292, 74029), (308, 74053), (331, 74104), (334, 74107), (342, 74119), (360, 74152), (398, 74221), (444, 74356), (456, 74392), (535, 74512), (561, 74566), (564, 74569), (582, 74620), (587, 74632), (626, 74701), (637, 74722), (666, 74770), (672, 74779), (806, 75157), (839, 75274), (843, 75292), (879, 75388), (896, 75424), (923, 75493), (926, 75502), (929, 75508), (986, 75646), (991, 75661), (995, 75676), (1018, 75760), (1022, 75763), (1045, 75835), (1065, 75907), (1085, 75952), (1088, 75961), (1091, 75967),

Gene: FugateOSU_61 Start: 55083, Stop: 53224, Start Num: 190
Candidate Starts for FugateOSU_61:
(Start: 173 @55107 has 3 MA's), (Start: 190 @55083 has 336 MA's), (Start: 222 @55059 has 3 MA's), (Start: 232 @55053 has 2 MA's), (261, 55011), (274, 54990), (336, 54876), (339, 54870), (355, 54840), (390, 54780), (398, 54759), (416, 54705), (429, 54693), (436, 54675), (440, 54663), (487, 54558), (552, 54501), (569, 54465), (573, 54453), (585, 54426), (601, 54399), (611, 54381), (622, 54363), (643, 54324), (648, 54315), (649, 54312), (761, 54054), (796, 53952), (804, 53919), (812, 53898), (848, 53805), (851, 53796), (877, 53733), (900, 53697), (901, 53694), (906, 53679), (939, 53601), (946, 53589), (953, 53568), (976, 53529), (1013, 53439), (1022, 53421), (1024, 53415), (1032, 53400), (1040, 53376), (1042, 53361), (1043, 53358), (1047, 53346), (1059, 53322), (1082, 53274), (1093, 53250),

Gene: Fullmetal_10 Start: 8382, Stop: 6184, Start Num: 161
Candidate Starts for Fullmetal_10:
(Start: 161 @8382 has 21 MA's), (235, 8292), (261, 8256), (Start: 285 @8220 has 1 MA's), (299, 8202), (341, 8151), (356, 8121), (402, 8028), (422, 7971), (464, 7863), (482, 7824), (516, 7707), (544, 7614), (548, 7602), (571, 7548), (605, 7503), (606, 7500), (654, 7416), (682, 7365), (692, 7332), (714, 7281), (723, 7257), (724, 7254), (753, 7173), (799, 7026), (844, 6888), (857, 6840), (858, 6837), (875, 6765), (880, 6750), (898, 6687), (913, 6657), (1011, 6423), (1013, 6411), (1020, 6390), (1035, 6354), (1036, 6351), (1043, 6321), (1053, 6306), (1064, 6276), (1066, 6267), (1073, 6255),

Gene: Fulton_37 Start: 26991, Stop: 25126, Start Num: 301
Candidate Starts for Fulton_37:
(Start: 301 @26991 has 153 MA's), (304, 26985), (349, 26886), (353, 26877), (369, 26853), (378, 26838), (382, 26832), (402, 26781), (404, 26778), (442, 26697), (463, 26637), (502, 26547), (533, 26544), (574, 26445), (585, 26418), (586, 26415), (590, 26403), (607, 26373), (618, 26352), (636, 26316), (706, 26169), (751, 26067), (777, 25989), (847, 25809), (855, 25779), (878, 25725), (889, 25707), (908, 25650), (917, 25623), (933, 25581), (949, 25542), (989, 25461), (992, 25452), (1010, 25392), (1013, 25368), (1017, 25356), (1020, 25347), (1028, 25329), (1040, 25296), (1068, 25224),

Gene: Funsized_59 Start: 56200, Stop: 54350, Start Num: 190
Candidate Starts for Funsized_59:
(24, 56692), (31, 56611), (45, 56536), (56, 56497), (57, 56494), (175, 56221), (Start: 190 @56200 has 336 MA's), (211, 56191), (249, 56143), (259, 56131), (362, 55960), (399, 55885), (406, 55861), (436, 55807), (439, 55798), (440, 55795), (447, 55783), (449, 55777), (487, 55690), (552, 55633), (558, 55621), (569, 55597), (573, 55585), (577, 55576), (583, 55561), (585, 55558), (590, 55549), (635, 55462), (643, 55450), (649, 55438), (660, 55414), (664, 55408), (707, 55324), (740, 55228), (775, 55141), (776, 55138), (787, 55102), (797, 55072), (804, 55045), (812, 55024), (826, 54994), (846, 54937), (848, 54931), (851, 54922), (877, 54859), (900, 54823), (901, 54820), (906, 54805), (935, 54739), (939, 54727), (946, 54715), (953, 54694), (955, 54685), (960, 54676), (992, 54625), (1013, 54565), (1024, 54541), (1032, 54526), (1040, 54502), (1041, 54490), (1042, 54487), (1043, 54484), (1047, 54472), (1059, 54448), (1067, 54424), (1069, 54421), (1078, 54406), (1082, 54400), (1093, 54376),

Gene: Funston_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Funston_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Fushigi_43 Start: 32768, Stop: 30939, Start Num: 228
Candidate Starts for Fushigi_43:
(Start: 228 @32768 has 960 MA's), (366, 32555), (373, 32540), (410, 32462), (418, 32441), (424, 32435), (430, 32426), (479, 32309), (490, 32282), (570, 32189), (576, 32174), (590, 32141), (621, 32090), (622, 32087), (654, 32033), (659, 32021), (680, 31991), (690, 31961), (709, 31916), (729, 31877), (803, 31697), (821, 31649), (840, 31601), (851, 31562), (855, 31544), (871, 31505), (895, 31484), (900, 31463), (905, 31448), (955, 31325), (1036, 31154), (1041, 31130), (1062, 31082), (1066, 31070), (1079, 31049), (1083, 31043), (1102, 30995), (1109, 30980),

Gene: GMA2_66 Start: 70128, Stop: 68344, Start Num: 228
Candidate Starts for GMA2_66:

(Start: 228 @70128 has 960 MA's), (244, 70104), (307, 70014), (360, 69927), (383, 69897), (390, 69885), (413, 69822), (414, 69819), (439, 69774), (440, 69771), (442, 69768), (488, 69678), (493, 69663), (544, 69633), (570, 69594), (584, 69558), (613, 69510), (626, 69483), (633, 69468), (687, 69375), (717, 69309), (729, 69285), (798, 69126), (803, 69105), (854, 68958), (857, 68943), (867, 68913), (888, 68865), (889, 68862), (901, 68826), (922, 68781), (926, 68769), (932, 68754), (949, 68712), (963, 68679), (992, 68613), (1009, 68577), (1027, 68523), (1032, 68514), (1040, 68490), (1066, 68418), (1085, 68391), (1097, 68367),

Gene: GMonster_42 Start: 33424, Stop: 31598, Start Num: 228
Candidate Starts for GMonster_42:
(Start: 228 @33424 has 960 MA's), (366, 33211), (373, 33196), (399, 33148), (410, 33118), (418, 33097), (424, 33091), (430, 33082), (479, 32965), (490, 32938), (570, 32845), (576, 32830), (590, 32797), (621, 32746), (622, 32743), (659, 32677), (680, 32647), (690, 32617), (709, 32572), (729, 32533), (803, 32353), (821, 32305), (836, 32266), (855, 32200), (871, 32161), (895, 32140), (900, 32119), (906, 32101), (935, 32035), (1009, 31885), (1010, 31882), (1018, 31846), (1032, 31822), (1035, 31813), (1039, 31801), (1066, 31726), (1079, 31705),

Gene: Gachnar_45 Start: 34206, Stop: 32377, Start Num: 228
Candidate Starts for Gachnar_45:
(Start: 228 @34206 has 960 MA's), (366, 33993), (373, 33978), (410, 33900), (418, 33879), (424, 33873), (430, 33864), (479, 33747), (490, 33720), (570, 33627), (576, 33612), (621, 33528), (622, 33525), (659, 33459), (690, 33399), (709, 33354), (729, 33315), (803, 33135), (821, 33087), (840, 33039), (851, 33000), (855, 32982), (871, 32943), (895, 32922), (900, 32901), (905, 32886), (955, 32763), (1036, 32592), (1041, 32568), (1062, 32520), (1066, 32508), (1079, 32487), (1083, 32481), (1102, 32433), (1109, 32418),

Gene: Gack_40 Start: 28093, Stop: 29955, Start Num: 217
Candidate Starts for Gack_40:
(Start: 177 @28039 has 1 MA's), (Start: 217 @28093 has 68 MA's), (Start: 241 @28114 has 3 MA's), (Start: 273 @28162 has 1 MA's), (430, 28429), (436, 28444), (473, 28525), (626, 28765), (741, 29017), (784, 29140), (803, 29200), (823, 29251), (848, 29326), (855, 29353), (898, 29446), (973, 29617), (975, 29620), (976, 29623), (1010, 29692), (1038, 29770), (1066, 29848), (1079, 29869), (1090, 29893), (1108, 29938),

Gene: Gadjet_59 Start: 54012, Stop: 52195, Start Num: 230
Candidate Starts for Gadjet_59:
(110, 54195), (Start: 230 @54012 has 52 MA's), (249, 53982), (366, 53802), (411, 53697), (435, 53649), (439, 53637), (452, 53607), (458, 53601), (487, 53538), (552, 53481), (569, 53445), (590, 53397), (649, 53292), (694, 53196), (722, 53145), (775, 53001), (787, 52962), (797, 52932), (804, 52905), (810, 52893), (846, 52797), (848, 52791), (851, 52782), (854, 52770), (883, 52698), (900, 52668), (906, 52650), (912, 52641), (939, 52572), (946, 52560), (953, 52539), (992, 52470), (1002, 52455), (1010, 52431), (1013, 52410), (1024, 52386), (1040, 52347), (1043, 52329), (1047, 52317), (1054, 52305), (1059, 52293), (1093, 52221),

Gene: Gadost_45 Start: 31574, Stop: 29748, Start Num: 228
Candidate Starts for Gadost_45:
(Start: 228 @31574 has 960 MA's), (Start: 241 @31553 has 3 MA's), (263, 31523), (278, 31493), (384, 31331), (394, 31313), (424, 31241), (430, 31232), (480, 31112), (490, 31088), (570, 30995), (592, 30947), (607, 30926), (626, 30887), (696, 30755), (707, 30734), (729, 30689), (733, 30677), (798, 30524), (803, 30503), (847, 30380), (855, 30350), (871, 30311), (900, 30245), (901, 30242), (906, 30227), (919, 30203), (929, 30179), (1013, 29972), (1066, 29837), (1073, 29825), (1079, 29816),

Gene: GaeCeo_39 Start: 29207, Stop: 27342, Start Num: 297

Candidate Starts for GaeCeo_39:
(Start: 297 @29207 has 21 MA's), (310, 29183), (380, 29051), (404, 28994), (431, 28940), (439, 28919), (442, 28913), (552, 28712), (586, 28628), (590, 28616), (607, 28586), (618, 28565), (623, 28553), (636, 28529), (659, 28484), (701, 28397), (719, 28352), (726, 28337), (768, 28235), (840, 28052), (851, 28013), (855, 27995), (873, 27953), (879, 27938), (908, 27866), (1010, 27608), (1013, 27584), (1025, 27551), (1068, 27440),

Gene: GageAP_45 Start: 34414, Stop: 32588, Start Num: 228
Candidate Starts for GageAP_45:
(Start: 228 @34414 has 960 MA's), (261, 34366), (366, 34201), (373, 34186), (410, 34108), (418, 34087), (424, 34081), (430, 34072), (479, 33955), (490, 33928), (570, 33835), (576, 33820), (621, 33736), (622, 33733), (659, 33667), (680, 33637), (690, 33607), (709, 33562), (729, 33523), (803, 33343), (815, 33313), (821, 33295), (823, 33292), (836, 33256), (855, 33190), (900, 33109), (901, 33106), (935, 33025), (1009, 32875), (1010, 32872), (1018, 32836), (1032, 32812), (1035, 32803), (1039, 32791), (1066, 32716), (1079, 32695),

Gene: Gail_49 Start: 33012, Stop: 31219, Start Num: 228
Candidate Starts for Gail_49:
(146, 33114), (Start: 228 @33012 has 960 MA's), (235, 33003), (258, 32970), (304, 32901), (360, 32808), (399, 32733), (400, 32730), (410, 32703), (424, 32676), (448, 32625), (480, 32547), (490, 32523), (570, 32430), (587, 32385), (643, 32292), (659, 32262), (729, 32115), (764, 32064), (778, 32016), (803, 31935), (830, 31869), (847, 31812), (855, 31782), (900, 31701), (949, 31584), (958, 31557), (1009, 31467), (1038, 31386), (1042, 31365), (1045, 31356), (1066, 31308), (1073, 31296), (1079, 31287), (1082, 31284),

Gene: GalaxyEater_37 Start: 33523, Stop: 31730, Start Num: 277
Candidate Starts for GalaxyEater_37:
(198, 33643), (207, 33631), (Start: 277 @33523 has 1 MA's), (338, 33421), (348, 33403), (441, 33217), (443, 33214), (456, 33196), (462, 33178), (479, 33151), (489, 33127), (536, 33088), (556, 33061), (563, 33046), (582, 32995), (585, 32989), (622, 32911), (626, 32902), (735, 32683), (746, 32662), (872, 32281), (921, 32197), (926, 32182), (929, 32176), (935, 32158), (980, 32068), (1018, 31963), (1036, 31921), (1038, 31915), (1040, 31909), (1049, 31873), (1064, 31846), (1066, 31837),

Gene: Gambol_39 Start: 27611, Stop: 29593, Start Num: 227
Candidate Starts for Gambol_39:
(Start: 227 @27611 has 33 MA's), (343, 27785), (386, 27848), (400, 27881), (435, 27956), (544, 28184), (626, 28358), (707, 28514), (768, 28652), (795, 28739), (803, 28772), (815, 28802), (836, 28859), (855, 28925), (898, 29018), (1013, 29285), (1024, 29309), (1066, 29420), (1114, 29528),

Gene: Gandalf20_46 Start: 35478, Stop: 33652, Start Num: 228
Candidate Starts for Gandalf20_46:
(Start: 228 @35478 has 960 MA's), (366, 35265), (399, 35202), (410, 35172), (418, 35151), (424, 35145), (430, 35136), (479, 35019), (490, 34992), (570, 34899), (576, 34884), (583, 34863), (590, 34851), (621, 34800), (622, 34797), (659, 34731), (680, 34701), (690, 34671), (709, 34626), (729, 34587), (803, 34407), (821, 34359), (836, 34320), (855, 34254), (871, 34215), (895, 34194), (900, 34173), (906, 34155), (935, 34089), (1009, 33939), (1010, 33936), (1018, 33900), (1032, 33876), (1035, 33867), (1039, 33855), (1045, 33828), (1066, 33780), (1079, 33759),

Gene: Garak_47 Start: 29791, Stop: 27950, Start Num: 228
Candidate Starts for Garak_47:
(Start: 228 @29791 has 960 MA's), (360, 29587), (399, 29512), (400, 29509), (410, 29482), (415, 29467), (424, 29455), (448, 29404), (485, 29314), (490, 29302), (570, 29209), (585, 29170), (595, 29152), (607, 29137), (643, 29071), (660, 29038), (663, 29035), (710, 28933), (742, 28873), (778,

28789), (803, 28708), (835, 28624), (836, 28621), (840, 28612), (847, 28585), (855, 28555), (895, 28495), (906, 28456), (1009, 28240), (1010, 28237), (1013, 28216), (1066, 28081), (1073, 28069), (1079, 28060), (1082, 28057), (1115, 27964),

Gene: GardenB_38 Start: 29033, Stop: 27168, Start Num: 301
Candidate Starts for GardenB_38:
(Start: 301 @29033 has 153 MA's), (Start: 305 @29024 has 5 MA's), (382, 28874), (433, 28760), (439, 28745), (442, 28739), (545, 28553), (552, 28541), (582, 28466), (586, 28457), (590, 28445), (606, 28418), (607, 28415), (614, 28400), (618, 28394), (621, 28388), (636, 28358), (659, 28313), (726, 28166), (768, 28064), (773, 28043), (847, 27851), (850, 27842), (851, 27839), (855, 27821), (873, 27779), (879, 27764), (908, 27692), (974, 27533), (989, 27503), (1010, 27434), (1013, 27410), (1028, 27371), (1040, 27338), (1044, 27326),

Gene: GardenState_48 Start: 31425, Stop: 33290, Start Num: 227
Candidate Starts for GardenState_48:
(Start: 227 @31425 has 33 MA's), (410, 31722), (452, 31812), (626, 32127), (686, 32232), (690, 32241), (707, 32280), (736, 32343), (803, 32538), (828, 32601), (845, 32655), (847, 32661), (856, 32694), (897, 32781), (926, 32850), (936, 32877), (1066, 33186),

Gene: Gareth_60 Start: 54536, Stop: 52677, Start Num: 190
Candidate Starts for Gareth_60:
(Start: 173 @54560 has 3 MA's), (Start: 190 @54536 has 336 MA's), (Start: 222 @54512 has 3 MA's), (Start: 232 @54506 has 2 MA's), (261, 54464), (274, 54443), (336, 54329), (339, 54323), (355, 54293), (390, 54233), (398, 54212), (416, 54158), (429, 54146), (436, 54128), (440, 54116), (487, 54011), (552, 53954), (569, 53918), (573, 53906), (585, 53879), (601, 53852), (611, 53834), (622, 53816), (643, 53777), (648, 53768), (649, 53765), (761, 53507), (796, 53405), (804, 53372), (812, 53351), (848, 53258), (851, 53249), (877, 53186), (900, 53150), (901, 53147), (906, 53132), (939, 53054), (946, 53042), (953, 53021), (976, 52982), (1013, 52892), (1022, 52874), (1024, 52868), (1032, 52853), (1040, 52829), (1042, 52814), (1043, 52811), (1047, 52799), (1059, 52775), (1082, 52727), (1093, 52703),

Gene: Garey24_38 Start: 28589, Stop: 26733, Start Num: 305
Candidate Starts for Garey24_38:
(Start: 241 @28685 has 3 MA's), (Start: 301 @28598 has 153 MA's), (Start: 305 @28589 has 5 MA's), (353, 28484), (360, 28475), (378, 28445), (380, 28442), (435, 28322), (439, 28310), (442, 28304), (483, 28199), (494, 28172), (582, 28031), (585, 28025), (586, 28022), (590, 28010), (606, 27983), (607, 27980), (614, 27965), (618, 27959), (621, 27953), (638, 27920), (701, 27791), (726, 27731), (847, 27416), (850, 27407), (851, 27404), (855, 27386), (873, 27344), (877, 27338), (879, 27329), (888, 27314), (908, 27257), (974, 27098), (989, 27068), (992, 27059), (1010, 26999), (1013, 26975), (1028, 26936), (1040, 26903), (1044, 26891), (1068, 26831),

Gene: Gargoyle_39 Start: 28930, Stop: 27074, Start Num: 305
Candidate Starts for Gargoyle_39:
(Start: 241 @29026 has 3 MA's), (Start: 243 @29023 has 1 MA's), (Start: 301 @28939 has 153 MA's), (Start: 305 @28930 has 5 MA's), (353, 28825), (360, 28816), (378, 28786), (380, 28783), (433, 28666), (439, 28651), (442, 28645), (483, 28540), (494, 28513), (582, 28372), (586, 28363), (590, 28351), (606, 28324), (607, 28321), (614, 28306), (618, 28300), (621, 28294), (638, 28261), (726, 28072), (749, 28018), (758, 27997), (847, 27757), (850, 27748), (851, 27745), (855, 27727), (873, 27685), (877, 27679), (888, 27655), (908, 27598), (974, 27439), (989, 27409), (992, 27400), (1010, 27340), (1013, 27316), (1028, 27277), (1040, 27244), (1044, 27232), (1068, 27172),

Gene: Garnacho_133 Start: 73578, Stop: 75614, Start Num: 255
Candidate Starts for Garnacho_133:

(Start: 255 @73578 has 8 MA's), (308, 73668), (331, 73719), (334, 73722), (342, 73734), (360, 73767), (398, 73836), (412, 73878), (428, 73932), (456, 74007), (465, 74034), (535, 74127), (561, 74181), (564, 74184), (582, 74235), (587, 74247), (626, 74316), (637, 74337), (666, 74385), (806, 74772), (839, 74889), (843, 74907), (894, 75027), (896, 75039), (919, 75099), (923, 75108), (926, 75117), (929, 75123), (981, 75243), (991, 75276), (995, 75291), (999, 75303), (1018, 75375), (1022, 75378), (1065, 75522), (1088, 75576), (1091, 75582),

Gene: GaugeLDP_43 Start: 31738, Stop: 29948, Start Num: 228
Candidate Starts for GaugeLDP_43:
(Start: 228 @31738 has 960 MA's), (360, 31534), (399, 31459), (400, 31456), (410, 31429), (415, 31414), (424, 31402), (485, 31261), (490, 31249), (570, 31156), (572, 31150), (590, 31108), (595, 31099), (607, 31084), (643, 31018), (686, 30937), (696, 30910), (707, 30889), (729, 30844), (767, 30787), (803, 30664), (835, 30580), (847, 30541), (855, 30511), (871, 30472), (900, 30430), (1009, 30196), (1042, 30094), (1066, 30037), (1073, 30025), (1079, 30016),

Gene: Gelo_38 Start: 28622, Stop: 26757, Start Num: 301
Candidate Starts for Gelo_38:
(Start: 241 @28709 has 3 MA's), (Start: 301 @28622 has 153 MA's), (Start: 305 @28613 has 5 MA's), (353, 28508), (360, 28499), (378, 28469), (380, 28466), (435, 28346), (439, 28334), (442, 28328), (483, 28223), (494, 28196), (582, 28055), (585, 28049), (586, 28046), (590, 28034), (606, 28007), (607, 28004), (614, 27989), (618, 27983), (621, 27977), (638, 27944), (701, 27815), (726, 27755), (847, 27440), (850, 27431), (851, 27428), (855, 27410), (873, 27368), (877, 27362), (888, 27338), (908, 27281), (974, 27122), (989, 27092), (992, 27083), (1010, 27023), (1013, 26999), (1028, 26960), (1040, 26927), (1044, 26915), (1068, 26855),

Gene: Gemma_47 Start: 31749, Stop: 29935, Start Num: 228
Candidate Starts for Gemma_47:
(Start: 228 @31749 has 960 MA's), (257, 31710), (263, 31698), (360, 31545), (369, 31530), (399, 31473), (424, 31416), (430, 31407), (448, 31365), (465, 31314), (490, 31263), (570, 31170), (590, 31122), (607, 31098), (626, 31059), (643, 31032), (659, 31002), (703, 30909), (709, 30897), (732, 30849), (742, 30834), (803, 30678), (823, 30627), (835, 30594), (836, 30591), (855, 30525), (871, 30486), (901, 30414), (919, 30375), (929, 30351), (935, 30333), (949, 30300), (992, 30219), (1013, 30159), (1022, 30141), (1042, 30081), (1045, 30072), (1066, 30024), (1073, 30012), (1079, 30003),

Gene: GeneCoco_61 Start: 54579, Stop: 52720, Start Num: 190
Candidate Starts for GeneCoco_61:
(Start: 173 @54603 has 3 MA's), (Start: 190 @54579 has 336 MA's), (Start: 222 @54555 has 3 MA's), (Start: 232 @54549 has 2 MA's), (261, 54507), (274, 54486), (336, 54372), (339, 54366), (355, 54336), (390, 54276), (398, 54255), (416, 54201), (429, 54189), (436, 54171), (440, 54159), (487, 54054), (552, 53997), (569, 53961), (573, 53949), (583, 53925), (590, 53913), (601, 53895), (611, 53877), (622, 53859), (643, 53820), (648, 53811), (649, 53808), (651, 53805), (761, 53550), (796, 53448), (804, 53415), (812, 53394), (848, 53301), (851, 53292), (877, 53229), (900, 53193), (901, 53190), (906, 53175), (939, 53097), (946, 53085), (953, 53064), (976, 53025), (1013, 52935), (1022, 52917), (1024, 52911), (1032, 52896), (1040, 52872), (1042, 52857), (1043, 52854), (1047, 52842), (1059, 52818), (1066, 52797), (1082, 52770), (1093, 52746), (1098, 52731),

Gene: George_38 Start: 30595, Stop: 28730, Start Num: 228
Candidate Starts for George_38:
(Start: 228 @30595 has 960 MA's), (263, 30544), (304, 30484), (343, 30421), (360, 30391), (362, 30388), (396, 30331), (399, 30319), (410, 30289), (424, 30262), (490, 30109), (570, 30013), (590, 29965), (637, 29881), (643, 29875), (685, 29803), (696, 29770), (703, 29755), (709, 29743), (761, 29644), (803, 29509), (815, 29479), (821, 29461), (830, 29443), (836, 29422), (840, 29413), (855, 29356), (871, 29317), (895, 29296), (900, 29275), (929, 29209), (949, 29158), (977, 29104), (982,

29095), (992, 29077), (1013, 29017), (1022, 28999), (1058, 28906), (1066, 28882), (1073, 28870), (1115, 28765),

Gene: Georgie2_45 Start: 31311, Stop: 29524, Start Num: 228
Candidate Starts for Georgie2_45:
(84, 31566), (Start: 228 @31311 has 960 MA's), (360, 31107), (362, 31104), (366, 31098), (375, 31083), (384, 31068), (399, 31035), (400, 31032), (410, 31005), (424, 30978), (435, 30957), (448, 30927), (490, 30825), (570, 30732), (590, 30684), (595, 30675), (607, 30660), (643, 30594), (686, 30513), (707, 30465), (709, 30459), (742, 30396), (778, 30321), (803, 30240), (823, 30189), (835, 30156), (836, 30153), (855, 30087), (871, 30048), (895, 30027), (924, 29952), (931, 29934), (949, 29889), (958, 29862), (982, 29826), (990, 29814), (992, 29808), (1009, 29772), (1013, 29748), (1042, 29670), (1066, 29613), (1073, 29601), (1079, 29592),

Gene: Gerri43_40 Start: 28660, Stop: 26870, Start Num: 214
Candidate Starts for Gerri43_40:
(168, 28720), (188, 28696), (205, 28675), (Start: 214 @28660 has 2 MA's), (Start: 221 @28651 has 14 MA's), (299, 28528), (328, 28480), (411, 28342), (413, 28336), (439, 28288), (482, 28207), (483, 28201), (493, 28177), (570, 28108), (613, 28027), (626, 28000), (633, 27985), (672, 27922), (697, 27865), (709, 27841), (712, 27835), (729, 27799), (748, 27763), (783, 27691), (798, 27649), (806, 27622), (841, 27526), (848, 27502), (855, 27475), (871, 27436), (902, 27361), (932, 27292), (951, 27244), (958, 27223), (986, 27169), (991, 27154), (1014, 27088), (1038, 27031), (1042, 27010), (1043, 27007), (1049, 26989), (1059, 26974),

Gene: Gershwin_38 Start: 28632, Stop: 26767, Start Num: 301
Candidate Starts for Gershwin_38:
(Start: 241 @28719 has 3 MA's), (Start: 301 @28632 has 153 MA's), (Start: 305 @28623 has 5 MA's), (353, 28518), (360, 28509), (378, 28479), (380, 28476), (435, 28356), (439, 28344), (442, 28338), (483, 28233), (494, 28206), (582, 28065), (585, 28059), (586, 28056), (590, 28044), (606, 28017), (607, 28014), (614, 27999), (618, 27993), (621, 27987), (638, 27954), (701, 27825), (726, 27765), (847, 27450), (850, 27441), (851, 27438), (855, 27420), (873, 27378), (877, 27372), (888, 27348), (908, 27291), (974, 27132), (989, 27102), (992, 27093), (1010, 27033), (1013, 27009), (1028, 26970), (1040, 26937), (1044, 26925), (1068, 26865),

Gene: Gervas_59 Start: 54101, Stop: 52284, Start Num: 230
Candidate Starts for Gervas_59:
(110, 54284), (Start: 230 @54101 has 52 MA's), (249, 54071), (366, 53891), (435, 53738), (439, 53726), (452, 53696), (458, 53690), (487, 53627), (489, 53621), (552, 53570), (569, 53534), (590, 53486), (649, 53381), (694, 53285), (722, 53234), (775, 53090), (787, 53051), (797, 53021), (804, 52994), (810, 52982), (846, 52886), (848, 52880), (851, 52871), (854, 52859), (883, 52787), (900, 52757), (906, 52739), (912, 52730), (939, 52661), (946, 52649), (953, 52628), (992, 52559), (1002, 52544), (1010, 52520), (1013, 52499), (1024, 52475), (1040, 52436), (1043, 52418), (1047, 52406), (1054, 52394), (1059, 52382), (1078, 52340), (1093, 52310),

Gene: Ghoulboy_40 Start: 31108, Stop: 29243, Start Num: 228
Candidate Starts for Ghoulboy_40:
(Start: 228 @31108 has 960 MA's), (263, 31057), (304, 30997), (343, 30934), (360, 30904), (362, 30901), (396, 30844), (410, 30802), (424, 30775), (490, 30622), (570, 30526), (582, 30493), (590, 30478), (637, 30394), (643, 30388), (660, 30355), (703, 30268), (709, 30256), (729, 30217), (761, 30157), (803, 30022), (815, 29992), (821, 29974), (835, 29938), (836, 29935), (855, 29869), (871, 29830), (900, 29788), (906, 29770), (929, 29722), (931, 29716), (949, 29671), (977, 29617), (982, 29608), (992, 29590), (1022, 29512), (1041, 29455), (1058, 29419), (1066, 29395), (1073, 29383), (1123, 29251),

Gene: GiJojo_132 Start: 75350, Stop: 77386, Start Num: 255
Candidate Starts for GiJojo_132:
(Start: 135 @75179 has 1 MA's), (Start: 255 @75350 has 8 MA's), (292, 75416), (308, 75440), (334, 75494), (342, 75506), (360, 75539), (398, 75608), (453, 75770), (456, 75779), (535, 75899), (561, 75953), (564, 75956), (582, 76007), (587, 76019), (615, 76067), (626, 76088), (637, 76109), (666, 76157), (678, 76175), (788, 76481), (806, 76544), (839, 76661), (843, 76679), (894, 76799), (896, 76811), (919, 76871), (923, 76880), (926, 76889), (986, 77033), (991, 77048), (995, 77063), (1018, 77147), (1022, 77150), (1030, 77168), (1065, 77294), (1091, 77354),

Gene: Gilberta_45 Start: 30767, Stop: 28980, Start Num: 228
Candidate Starts for Gilberta_45:
(Start: 228 @30767 has 960 MA's), (360, 30563), (399, 30491), (410, 30461), (424, 30434), (572, 30182), (595, 30131), (643, 30050), (668, 30005), (733, 29864), (766, 29822), (778, 29777), (803, 29696), (823, 29645), (836, 29609), (855, 29543), (895, 29483), (897, 29471), (938, 29369), (949, 29345), (954, 29327), (992, 29264), (1007, 29237), (1009, 29228), (1013, 29204), (1066, 29069), (1073, 29057), (1079, 29048),

Gene: GinPorsche_53 Start: 52983, Stop: 51160, Start Num: 182
Candidate Starts for GinPorsche_53:
(Start: 163 @53001 has 29 MA's), (Start: 182 @52983 has 33 MA's), (Start: 232 @52959 has 2 MA's), (249, 52932), (261, 52917), (274, 52896), (324, 52809), (386, 52704), (402, 52662), (436, 52596), (449, 52566), (452, 52557), (457, 52554), (458, 52551), (467, 52524), (552, 52431), (560, 52413), (569, 52395), (573, 52383), (580, 52368), (585, 52356), (648, 52245), (649, 52242), (664, 52212), (685, 52176), (775, 51951), (776, 51948), (787, 51912), (796, 51888), (804, 51855), (846, 51747), (848, 51741), (850, 51735), (851, 51732), (900, 51633), (901, 51630), (906, 51615), (939, 51537), (946, 51525), (953, 51504), (955, 51495), (976, 51465), (990, 51441), (1007, 51408), (1013, 51375), (1022, 51357), (1024, 51351), (1040, 51312), (1043, 51294), (1047, 51282), (1059, 51258), (1078, 51216), (1082, 51210), (1093, 51186),

Gene: GingkoMaracino_48 Start: 31739, Stop: 29925, Start Num: 228
Candidate Starts for GingkoMaracino_48:
(Start: 228 @31739 has 960 MA's), (257, 31700), (263, 31688), (360, 31535), (369, 31520), (399, 31463), (424, 31406), (430, 31397), (448, 31355), (465, 31304), (490, 31253), (570, 31160), (590, 31112), (595, 31103), (607, 31088), (626, 31049), (643, 31022), (659, 30992), (703, 30899), (709, 30887), (732, 30839), (742, 30824), (803, 30668), (821, 30620), (836, 30581), (855, 30515), (871, 30476), (901, 30404), (919, 30365), (929, 30341), (935, 30323), (949, 30290), (958, 30263), (992, 30209), (1013, 30149), (1042, 30071), (1066, 30014), (1073, 30002), (1079, 29993),

Gene: Giorgio_37 Start: 27527, Stop: 29509, Start Num: 227
Candidate Starts for Giorgio_37:
(Start: 227 @27527 has 33 MA's), (343, 27701), (360, 27731), (386, 27764), (400, 27797), (435, 27872), (447, 27899), (489, 28001), (544, 28100), (626, 28274), (643, 28301), (707, 28430), (768, 28568), (795, 28655), (803, 28688), (815, 28718), (836, 28775), (855, 28841), (898, 28934), (934, 29021), (1013, 29201), (1024, 29225), (1066, 29336), (1114, 29444),

Gene: Giraffe_61 Start: 54531, Stop: 52672, Start Num: 190
Candidate Starts for Giraffe_61:
(Start: 173 @54555 has 3 MA's), (Start: 190 @54531 has 336 MA's), (Start: 222 @54507 has 3 MA's), (Start: 232 @54501 has 2 MA's), (261, 54459), (274, 54438), (336, 54324), (339, 54318), (355, 54288), (390, 54228), (398, 54207), (416, 54153), (429, 54141), (436, 54123), (440, 54111), (487, 54006), (552, 53949), (569, 53913), (573, 53901), (585, 53874), (601, 53847), (611, 53829), (622, 53811), (643, 53772), (648, 53763), (649, 53760), (761, 53502), (796, 53400), (804, 53367), (812, 53346), (848, 53253), (851, 53244), (877, 53181), (900, 53145), (901, 53142), (906, 53127), (939, 53049),

(946, 53037), (953, 53016), (976, 52977), (1013, 52887), (1022, 52869), (1024, 52863), (1032, 52848), (1040, 52824), (1042, 52809), (1043, 52806), (1047, 52794), (1059, 52770), (1082, 52722), (1093, 52698),

Gene: Giroux_47 Start: 31554, Stop: 29716, Start Num: 228
Candidate Starts for Giroux_47:
(Start: 228 @31554 has 960 MA's), (263, 31503), (307, 31437), (360, 31350), (396, 31290), (399, 31278), (424, 31221), (430, 31212), (480, 31092), (490, 31068), (570, 30972), (592, 30924), (626, 30864), (663, 30801), (696, 30732), (707, 30711), (744, 30639), (767, 30597), (778, 30555), (803, 30474), (821, 30426), (847, 30351), (855, 30321), (869, 30291), (901, 30210), (919, 30171), (929, 30147), (935, 30129), (992, 30000), (1013, 29940), (1066, 29805), (1073, 29793), (1079, 29784),

Gene: Gladiator_45 Start: 29628, Stop: 27787, Start Num: 228
Candidate Starts for Gladiator_45:
(Start: 228 @29628 has 960 MA's), (360, 29424), (399, 29349), (400, 29346), (410, 29319), (415, 29304), (424, 29292), (448, 29241), (485, 29151), (490, 29139), (570, 29046), (585, 29007), (595, 28989), (607, 28974), (643, 28908), (660, 28875), (663, 28872), (710, 28770), (742, 28710), (778, 28626), (803, 28545), (835, 28461), (836, 28458), (840, 28449), (847, 28422), (851, 28410), (855, 28392), (895, 28332), (906, 28293), (1009, 28077), (1010, 28074), (1013, 28053), (1066, 27918), (1073, 27906), (1079, 27897), (1082, 27894), (1115, 27801),

Gene: Glamour_37 Start: 28723, Stop: 26858, Start Num: 301
Candidate Starts for Glamour_37:
(Start: 301 @28723 has 153 MA's), (320, 28678), (346, 28624), (382, 28564), (402, 28513), (439, 28435), (442, 28429), (458, 28384), (459, 28381), (460, 28378), (474, 28339), (502, 28279), (582, 28156), (586, 28147), (590, 28135), (597, 28123), (607, 28105), (618, 28084), (623, 28072), (706, 27901), (773, 27733), (840, 27568), (850, 27532), (855, 27511), (873, 27469), (908, 27382), (924, 27337), (965, 27238), (989, 27193), (992, 27184), (1010, 27124), (1013, 27100), (1025, 27067), (1068, 26956),

Gene: Glass_57 Start: 52601, Stop: 50772, Start Num: 190
Candidate Starts for Glass_57:
(Start: 190 @52601 has 336 MA's), (Start: 232 @52574 has 2 MA's), (Start: 255 @52544 has 8 MA's), (261, 52532), (Start: 276 @52505 has 2 MA's), (278, 52502), (284, 52493), (307, 52475), (362, 52379), (390, 52328), (399, 52304), (467, 52142), (482, 52118), (487, 52106), (552, 52049), (569, 52013), (573, 52001), (583, 51977), (630, 51893), (648, 51863), (649, 51860), (664, 51830), (727, 51686), (755, 51620), (771, 51581), (775, 51569), (780, 51548), (787, 51530), (804, 51473), (831, 51416), (840, 51389), (848, 51359), (851, 51350), (875, 51284), (897, 51257), (900, 51248), (906, 51230), (919, 51206), (939, 51152), (946, 51140), (953, 51119), (992, 51050), (1013, 50990), (1022, 50972), (1036, 50939), (1040, 50927), (1042, 50912), (1043, 50909), (1047, 50897), (1059, 50873), (1060, 50870), (1082, 50822), (1083, 50819), (1093, 50798), (1100, 50777),

Gene: GlenHope_59 Start: 53675, Stop: 51858, Start Num: 230
Candidate Starts for GlenHope_59:
(Start: 230 @53675 has 52 MA's), (249, 53645), (366, 53465), (435, 53312), (439, 53300), (452, 53270), (458, 53264), (487, 53201), (489, 53195), (552, 53144), (566, 53117), (569, 53108), (590, 53060), (649, 52955), (694, 52859), (722, 52808), (775, 52664), (787, 52625), (797, 52595), (804, 52568), (810, 52556), (846, 52460), (848, 52454), (851, 52445), (854, 52433), (883, 52361), (900, 52331), (906, 52313), (912, 52304), (939, 52235), (946, 52223), (953, 52202), (992, 52133), (1002, 52118), (1010, 52094), (1013, 52073), (1022, 52055), (1024, 52049), (1038, 52016), (1040, 52010), (1043, 51992), (1047, 51980), (1054, 51968), (1059, 51956), (1078, 51914), (1093, 51884),

Gene: Glubnar_59 Start: 53584, Stop: 51764, Start Num: 228

Candidate Starts for Glubnar_59:
(110, 53764), (Start: 228 @53584 has 960 MA's), (249, 53551), (366, 53371), (435, 53218), (439, 53206), (452, 53176), (458, 53170), (487, 53107), (489, 53101), (552, 53050), (569, 53014), (590, 52966), (649, 52861), (694, 52765), (722, 52714), (775, 52570), (787, 52531), (797, 52501), (804, 52474), (810, 52462), (846, 52366), (848, 52360), (851, 52351), (854, 52339), (883, 52267), (900, 52237), (906, 52219), (912, 52210), (939, 52141), (946, 52129), (953, 52108), (992, 52039), (1002, 52024), (1010, 52000), (1013, 51979), (1022, 51961), (1024, 51955), (1038, 51922), (1040, 51916), (1043, 51898), (1047, 51886), (1054, 51874), (1059, 51862), (1078, 51820), (1093, 51790),

Gene: Godines_58 Start: 52884, Stop: 51055, Start Num: 190
Candidate Starts for Godines_58:
(Start: 190 @52884 has 336 MA's), (Start: 232 @52857 has 2 MA's), (261, 52815), (Start: 276 @52788 has 2 MA's), (278, 52785), (284, 52776), (307, 52758), (362, 52662), (390, 52611), (399, 52587), (406, 52563), (467, 52425), (482, 52401), (487, 52389), (552, 52332), (569, 52296), (573, 52284), (583, 52260), (630, 52176), (648, 52146), (649, 52143), (664, 52113), (727, 51969), (755, 51903), (771, 51864), (775, 51852), (780, 51831), (787, 51813), (804, 51756), (831, 51699), (840, 51672), (848, 51642), (851, 51633), (875, 51567), (897, 51540), (900, 51531), (906, 51513), (919, 51489), (939, 51435), (946, 51423), (953, 51402), (992, 51333), (1013, 51273), (1022, 51255), (1036, 51222), (1040, 51210), (1042, 51195), (1043, 51192), (1047, 51180), (1059, 51156), (1060, 51153), (1082, 51105), (1083, 51102), (1093, 51081), (1100, 51060),

Gene: GodonK_188 Start: 97693, Stop: 95903, Start Num: 228
Candidate Starts for GodonK_188:
(Start: 228 @97693 has 960 MA's), (278, 97615), (Start: 296 @97588 has 13 MA's), (299, 97585), (351, 97507), (383, 97462), (388, 97453), (411, 97393), (413, 97387), (415, 97381), (439, 97339), (465, 97288), (488, 97243), (546, 97192), (572, 97153), (584, 97123), (591, 97114), (613, 97075), (626, 97048), (633, 97033), (673, 96967), (729, 96850), (768, 96790), (775, 96763), (778, 96751), (793, 96709), (803, 96667), (815, 96637), (835, 96580), (836, 96577), (888, 96427), (889, 96424), (898, 96397), (932, 96316), (956, 96253), (963, 96241), (969, 96232), (1014, 96112), (1027, 96085), (1036, 96064), (1040, 96052), (1066, 95977), (1083, 95956), (1097, 95926),

Gene: GoingMerry_39 Start: 28944, Stop: 27079, Start Num: 301
Candidate Starts for GoingMerry_39:
(Start: 241 @29031 has 3 MA's), (Start: 243 @29028 has 1 MA's), (Start: 301 @28944 has 153 MA's), (Start: 305 @28935 has 5 MA's), (353, 28830), (360, 28821), (378, 28791), (380, 28788), (435, 28668), (439, 28656), (442, 28650), (483, 28545), (494, 28518), (582, 28377), (586, 28368), (590, 28356), (606, 28329), (607, 28326), (614, 28311), (618, 28305), (621, 28299), (638, 28266), (726, 28077), (847, 27762), (850, 27753), (851, 27750), (855, 27732), (873, 27690), (877, 27684), (888, 27660), (908, 27603), (974, 27444), (989, 27414), (992, 27405), (1010, 27345), (1013, 27321), (1028, 27282), (1040, 27249), (1044, 27237), (1068, 27177),

Gene: Golden_37 Start: 28582, Stop: 26732, Start Num: 297
Candidate Starts for Golden_37:
(209, 28723), (268, 28633), (Start: 297 @28582 has 21 MA's), (346, 28483), (360, 28459), (380, 28426), (431, 28315), (439, 28294), (442, 28288), (458, 28243), (460, 28237), (560, 28081), (586, 28018), (590, 28006), (607, 27976), (636, 27919), (768, 27625), (847, 27415), (850, 27406), (851, 27403), (855, 27385), (873, 27343), (908, 27256), (1010, 26998), (1013, 26974), (1014, 26971), (1025, 26941), (1068, 26830),

Gene: GoldenEssence_85 Start: 72236, Stop: 74038, Start Num: 238
Candidate Starts for GoldenEssence_85:
(Start: 238 @72236 has 11 MA's), (Start: 276 @72299 has 2 MA's), (Start: 285 @72311 has 1 MA's), (352, 72422), (390, 72476), (429, 72557), (439, 72584), (442, 72590), (479, 72659), (493, 72695),

(570, 72764), (613, 72842), (626, 72869), (633, 72884), (729, 73073), (753, 73118), (767, 73142), (769, 73151), (774, 73169), (783, 73202), (798, 73241), (803, 73262), (806, 73268), (845, 73382), (870, 73466), (876, 73472), (879, 73484), (898, 73532), (902, 73544), (919, 73580), (932, 73613), (935, 73622), (953, 73667), (960, 73685), (1002, 73769), (1009, 73790), (1014, 73817), (1041, 73889), (1049, 73913), (1066, 73949), (1083, 73976),

Gene: Gollum_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for Gollum_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (710, 27261), (729, 27225), (767, 27168), (803, 27045), (821, 26997), (855, 26892), (856, 26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1079, 26397), (1094, 26367), (1100, 26349),

Gene: Gompeii16_44 Start: 35183, Stop: 33354, Start Num: 228
Candidate Starts for Gompeii16_44:
(Start: 228 @35183 has 960 MA's), (366, 34970), (373, 34955), (399, 34907), (410, 34877), (414, 34865), (418, 34856), (424, 34850), (430, 34841), (479, 34724), (490, 34697), (570, 34604), (576, 34589), (583, 34568), (590, 34556), (621, 34505), (622, 34502), (659, 34436), (680, 34406), (690, 34376), (709, 34331), (729, 34292), (803, 34112), (821, 34064), (840, 34016), (851, 33977), (855, 33959), (871, 33920), (895, 33899), (900, 33878), (905, 33863), (955, 33740), (1036, 33569), (1041, 33545), (1062, 33497), (1066, 33485), (1079, 33464), (1083, 33458), (1102, 33410), (1109, 33395),

Gene: GoneGirl_39 Start: 29026, Stop: 27161, Start Num: 301
Candidate Starts for GoneGirl_39:
(Start: 301 @29026 has 153 MA's), (Start: 305 @29017 has 5 MA's), (382, 28867), (433, 28753), (439, 28738), (442, 28732), (545, 28546), (552, 28534), (582, 28459), (586, 28450), (590, 28438), (606, 28411), (607, 28408), (614, 28393), (636, 28351), (659, 28306), (726, 28159), (768, 28057), (773, 28036), (847, 27844), (850, 27835), (851, 27832), (855, 27814), (873, 27772), (879, 27757), (908, 27685), (974, 27526), (989, 27496), (1010, 27427), (1013, 27403), (1028, 27364), (1040, 27331), (1044, 27319),

Gene: Goose_44 Start: 30924, Stop: 29089, Start Num: 228
Candidate Starts for Goose_44:
(Start: 228 @30924 has 960 MA's), (263, 30873), (360, 30720), (373, 30696), (396, 30660), (399, 30648), (418, 30597), (424, 30591), (430, 30582), (462, 30498), (480, 30462), (485, 30450), (489, 30441), (490, 30438), (570, 30345), (592, 30297), (626, 30237), (643, 30210), (657, 30186), (694, 30108), (696, 30105), (707, 30084), (709, 30078), (744, 30012), (767, 29970), (803, 29847), (821, 29799), (847, 29724), (855, 29694), (871, 29655), (901, 29583), (919, 29544), (929, 29520), (931, 29514), (935, 29502), (985, 29394), (1013, 29313), (1024, 29289), (1045, 29226), (1066, 29178), (1073, 29166), (1079, 29157),

Gene: Goose1D_39 Start: 27575, Stop: 25737, Start Num: 228
Candidate Starts for Goose1D_39:
(171, 27647), (Start: 228 @27575 has 960 MA's), (263, 27524), (360, 27371), (396, 27311), (399, 27299), (424, 27242), (430, 27233), (435, 27221), (480, 27113), (490, 27089), (570, 26993), (592, 26945), (626, 26885), (663, 26822), (696, 26753), (707, 26732), (742, 26663), (746, 26657), (767, 26618), (803, 26495), (836, 26408), (847, 26372), (855, 26342), (869, 26312), (901, 26231), (919, 26192), (929, 26168), (935, 26150), (992, 26021), (1013, 25961), (1066, 25826), (1073, 25814), (1079, 25805),

Gene: Goose1X_45 Start: 30717, Stop: 28879, Start Num: 228

Candidate Starts for Goose1X_45:
(171, 30789), (Start: 228 @30717 has 960 MA's), (263, 30666), (360, 30513), (396, 30453), (399, 30441), (424, 30384), (430, 30375), (435, 30363), (480, 30255), (490, 30231), (570, 30135), (592, 30087), (626, 30027), (663, 29964), (696, 29895), (707, 29874), (742, 29805), (746, 29799), (767, 29760), (803, 29637), (836, 29550), (847, 29514), (855, 29484), (869, 29454), (901, 29373), (919, 29334), (929, 29310), (935, 29292), (992, 29163), (1013, 29103), (1066, 28968), (1073, 28956), (1079, 28947),

Gene: Gophee_62 Start: 54522, Stop: 52663, Start Num: 190
Candidate Starts for Gophee_62:
(Start: 173 @54546 has 3 MA's), (Start: 190 @54522 has 336 MA's), (Start: 222 @54498 has 3 MA's), (Start: 232 @54492 has 2 MA's), (261, 54450), (274, 54429), (336, 54315), (339, 54309), (355, 54279), (390, 54219), (398, 54198), (416, 54144), (429, 54132), (436, 54114), (440, 54102), (487, 53997), (552, 53940), (569, 53904), (573, 53892), (583, 53868), (590, 53856), (601, 53838), (611, 53820), (622, 53802), (643, 53763), (648, 53754), (649, 53751), (651, 53748), (796, 53391), (804, 53358), (812, 53337), (848, 53244), (851, 53235), (877, 53172), (900, 53136), (901, 53133), (906, 53118), (939, 53040), (946, 53028), (953, 53007), (976, 52968), (1013, 52878), (1022, 52860), (1024, 52854), (1032, 52839), (1040, 52815), (1042, 52800), (1043, 52797), (1047, 52785), (1059, 52761), (1066, 52740), (1082, 52713), (1093, 52689),

Gene: Gorgeous_54 Start: 36486, Stop: 34318, Start Num: 213
Candidate Starts for Gorgeous_54:
(212, 36489), (Start: 213 @36486 has 13 MA's), (251, 36432), (299, 36348), (382, 36195), (387, 36186), (404, 36141), (429, 36063), (432, 36054), (438, 36039), (446, 36024), (447, 36021), (467, 35964), (506, 35871), (520, 35829), (601, 35634), (607, 35622), (609, 35616), (622, 35592), (631, 35571), (646, 35550), (653, 35535), (656, 35529), (689, 35466), (709, 35415), (737, 35328), (763, 35268), (778, 35220), (813, 35118), (815, 35112), (824, 35085), (825, 35082), (835, 35061), (848, 35019), (850, 35013), (856, 34989), (876, 34947), (877, 34944), (888, 34917), (896, 34884), (898, 34872), (914, 34836), (924, 34812), (926, 34806), (929, 34800), (950, 34746), (976, 34698), (977, 34695), (1002, 34635), (1009, 34611), (1015, 34581), (1037, 34527), (1054, 34458), (1059, 34446), (1075, 34407),

Gene: Graduation_48 Start: 36333, Stop: 34516, Start Num: 228
Candidate Starts for Graduation_48:
(Start: 228 @36333 has 960 MA's), (366, 36120), (373, 36105), (410, 36027), (418, 36006), (424, 36000), (430, 35991), (479, 35874), (490, 35847), (570, 35754), (576, 35739), (590, 35706), (621, 35655), (622, 35652), (659, 35586), (680, 35556), (690, 35526), (709, 35481), (729, 35442), (803, 35262), (821, 35214), (836, 35175), (855, 35109), (871, 35070), (895, 35049), (900, 35028), (906, 35010), (935, 34944), (1009, 34794), (1010, 34791), (1018, 34755), (1032, 34731), (1035, 34722), (1039, 34710), (1066, 34635), (1079, 34614),

Gene: Grand2040_60 Start: 54525, Stop: 52666, Start Num: 190
Candidate Starts for Grand2040_60:
(Start: 173 @54549 has 3 MA's), (Start: 190 @54525 has 336 MA's), (Start: 222 @54501 has 3 MA's), (Start: 232 @54495 has 2 MA's), (261, 54453), (274, 54432), (336, 54318), (339, 54312), (355, 54282), (390, 54222), (398, 54201), (416, 54147), (429, 54135), (436, 54117), (440, 54105), (487, 54000), (552, 53943), (569, 53907), (573, 53895), (583, 53871), (590, 53859), (601, 53841), (611, 53823), (622, 53805), (643, 53766), (648, 53757), (649, 53754), (651, 53751), (761, 53496), (796, 53394), (804, 53361), (812, 53340), (848, 53247), (851, 53238), (877, 53175), (900, 53139), (901, 53136), (906, 53121), (939, 53043), (946, 53031), (953, 53010), (976, 52971), (1013, 52881), (1022, 52863), (1024, 52857), (1032, 52842), (1040, 52818), (1042, 52803), (1043, 52800), (1047, 52788), (1059, 52764), (1066, 52743), (1082, 52716), (1093, 52692),

Gene: Gratitude_44 Start: 31601, Stop: 29814, Start Num: 228
Candidate Starts for Gratitude_44:
(Start: 228 @31601 has 960 MA's), (360, 31397), (362, 31394), (366, 31388), (384, 31358), (399, 31325), (400, 31322), (410, 31295), (424, 31268), (448, 31217), (490, 31115), (570, 31022), (590, 30974), (595, 30965), (607, 30950), (643, 30884), (686, 30803), (707, 30755), (778, 30611), (803, 30530), (823, 30479), (835, 30446), (855, 30377), (871, 30338), (895, 30317), (900, 30296), (904, 30284), (990, 30104), (992, 30098), (1009, 30062), (1013, 30038), (1042, 29960), (1066, 29903), (1073, 29891),

Gene: GrecoEtereo_45 Start: 34806, Stop: 32980, Start Num: 228
Candidate Starts for GrecoEtereo_45:
(Start: 228 @34806 has 960 MA's), (366, 34593), (373, 34578), (399, 34530), (410, 34500), (418, 34479), (424, 34473), (430, 34464), (479, 34347), (490, 34320), (570, 34227), (576, 34212), (590, 34179), (621, 34128), (622, 34125), (659, 34059), (680, 34029), (690, 33999), (709, 33954), (729, 33915), (803, 33735), (821, 33687), (836, 33648), (855, 33582), (871, 33543), (895, 33522), (900, 33501), (906, 33483), (935, 33417), (1009, 33267), (1010, 33264), (1018, 33228), (1032, 33204), (1035, 33195), (1039, 33183), (1066, 33108), (1079, 33087),

Gene: GreedyLawyer_45 Start: 29627, Stop: 27786, Start Num: 228
Candidate Starts for GreedyLawyer_45:
(Start: 228 @29627 has 960 MA's), (360, 29423), (399, 29348), (400, 29345), (410, 29318), (415, 29303), (424, 29291), (448, 29240), (485, 29150), (490, 29138), (570, 29045), (585, 29006), (595, 28988), (607, 28973), (643, 28907), (660, 28874), (663, 28871), (710, 28769), (742, 28709), (778, 28625), (803, 28544), (835, 28460), (836, 28457), (840, 28448), (847, 28421), (855, 28391), (895, 28331), (906, 28292), (1009, 28076), (1010, 28073), (1013, 28052), (1066, 27917), (1073, 27905), (1079, 27896), (1082, 27893), (1115, 27800),

Gene: GreenChile_62 Start: 54059, Stop: 52200, Start Num: 190
Candidate Starts for GreenChile_62:
(Start: 173 @54083 has 3 MA's), (Start: 190 @54059 has 336 MA's), (Start: 222 @54035 has 3 MA's), (Start: 232 @54029 has 2 MA's), (261, 53987), (274, 53966), (336, 53852), (339, 53846), (355, 53816), (390, 53756), (398, 53735), (416, 53681), (429, 53669), (436, 53651), (440, 53639), (487, 53534), (552, 53477), (569, 53441), (573, 53429), (585, 53402), (590, 53393), (611, 53357), (643, 53300), (648, 53291), (649, 53288), (651, 53285), (796, 52928), (804, 52895), (812, 52874), (848, 52781), (851, 52772), (877, 52709), (900, 52673), (901, 52670), (906, 52655), (939, 52577), (946, 52565), (953, 52544), (976, 52505), (1013, 52415), (1022, 52397), (1024, 52391), (1032, 52376), (1040, 52352), (1042, 52337), (1043, 52334), (1047, 52322), (1059, 52298), (1082, 52250), (1093, 52226),

Gene: GreenIvy_37 Start: 27580, Stop: 25715, Start Num: 301
Candidate Starts for GreenIvy_37:
(Start: 301 @27580 has 153 MA's), (304, 27574), (349, 27475), (353, 27466), (369, 27442), (378, 27427), (382, 27421), (402, 27370), (404, 27367), (442, 27286), (502, 27136), (533, 27133), (574, 27034), (585, 27007), (586, 27004), (590, 26992), (607, 26962), (618, 26941), (636, 26905), (706, 26758), (777, 26578), (847, 26398), (855, 26368), (878, 26314), (889, 26296), (908, 26239), (917, 26212), (933, 26170), (989, 26050), (992, 26041), (1010, 25981), (1013, 25957), (1017, 25945), (1020, 25936), (1028, 25918), (1040, 25885), (1068, 25813),

Gene: Greg_47 Start: 35124, Stop: 33337, Start Num: 228
Candidate Starts for Greg_47:
(Start: 228 @35124 has 960 MA's), (366, 34911), (373, 34896), (399, 34848), (410, 34818), (418, 34797), (424, 34791), (430, 34782), (479, 34665), (490, 34638), (570, 34545), (576, 34530), (590, 34497), (621, 34446), (622, 34443), (659, 34377), (680, 34347), (690, 34317), (709, 34272), (729, 34233), (803, 34053), (821, 34005), (836, 33966), (855, 33900), (897, 33828), (900, 33819), (935,

33735), (977, 33648), (1032, 33522), (1036, 33510), (1066, 33426), (1069, 33420),

Gene: Gretchen_48 Start: 32640, Stop: 34505, Start Num: 227
Candidate Starts for Gretchen_48:
(138, 32514), (183, 32583), (Start: 227 @32640 has 33 MA's), (410, 32937), (473, 33081), (572, 33234), (626, 33342), (643, 33369), (681, 33429), (703, 33489), (707, 33495), (733, 33552), (736, 33558), (778, 33672), (803, 33753), (828, 33816), (845, 33870), (847, 33876), (922, 34053), (929, 34071), (932, 34080), (936, 34092), (976, 34176), (1022, 34284), (1040, 34329), (1066, 34401), (1104, 34479), (1112, 34500),

Gene: Greys_39 Start: 28932, Stop: 27067, Start Num: 301
Candidate Starts for Greys_39:
(Start: 241 @29019 has 3 MA's), (Start: 243 @29016 has 1 MA's), (Start: 301 @28932 has 153 MA's), (Start: 305 @28923 has 5 MA's), (353, 28818), (360, 28809), (378, 28779), (380, 28776), (435, 28656), (439, 28644), (442, 28638), (483, 28533), (494, 28506), (582, 28365), (586, 28356), (590, 28344), (606, 28317), (607, 28314), (614, 28299), (618, 28293), (621, 28287), (638, 28254), (726, 28065), (847, 27750), (850, 27741), (851, 27738), (855, 27720), (873, 27678), (877, 27672), (888, 27648), (908, 27591), (974, 27432), (989, 27402), (992, 27393), (1010, 27333), (1013, 27309), (1028, 27270), (1040, 27237), (1044, 27225), (1068, 27165),

Gene: Grif_48 Start: 31927, Stop: 30113, Start Num: 228
Candidate Starts for Grif_48:
(Start: 228 @31927 has 960 MA's), (257, 31888), (263, 31876), (360, 31723), (369, 31708), (399, 31651), (424, 31594), (430, 31585), (448, 31543), (465, 31492), (490, 31441), (570, 31348), (590, 31300), (595, 31291), (607, 31276), (626, 31237), (643, 31210), (659, 31180), (703, 31087), (709, 31075), (732, 31027), (742, 31012), (803, 30856), (836, 30769), (851, 30721), (855, 30703), (871, 30664), (901, 30592), (919, 30553), (929, 30529), (935, 30511), (949, 30478), (958, 30451), (992, 30397), (1013, 30337), (1042, 30259), (1066, 30202), (1073, 30190), (1079, 30181),

Gene: GrimEater_37 Start: 28029, Stop: 29894, Start Num: 228
Candidate Starts for GrimEater_37:
(Start: 228 @28029 has 960 MA's), (399, 28296), (410, 28326), (572, 28623), (622, 28722), (633, 28746), (686, 28836), (707, 28884), (803, 29142), (853, 29286), (855, 29295), (926, 29454), (932, 29469), (977, 29568), (1010, 29634), (1013, 29655), (1022, 29673), (1066, 29790),

Gene: Grist_42 Start: 29665, Stop: 31539, Start Num: 217
Candidate Starts for Grist_42:
(Start: 217 @29665 has 68 MA's), (Start: 273 @29734 has 1 MA's), (Start: 285 @29755 has 1 MA's), (430, 30001), (436, 30016), (473, 30097), (626, 30337), (741, 30571), (783, 30691), (784, 30694), (803, 30754), (830, 30820), (833, 30835), (845, 30871), (855, 30907), (898, 31000), (973, 31171), (975, 31174), (1009, 31243), (1018, 31282), (1038, 31324), (1041, 31342), (1066, 31402), (1079, 31423),

Gene: GroundGoblin_45 Start: 35499, Stop: 33673, Start Num: 228
Candidate Starts for GroundGoblin_45:
(Start: 228 @35499 has 960 MA's), (366, 35286), (373, 35271), (410, 35193), (418, 35172), (424, 35166), (430, 35157), (479, 35040), (490, 35013), (570, 34920), (576, 34905), (621, 34821), (622, 34818), (659, 34752), (690, 34692), (709, 34647), (729, 34608), (803, 34428), (821, 34380), (836, 34341), (855, 34275), (871, 34236), (895, 34215), (900, 34194), (906, 34176), (935, 34110), (1007, 33969), (1009, 33960), (1010, 33957), (1018, 33921), (1032, 33897), (1035, 33888), (1039, 33876), (1066, 33801), (1079, 33780),

Gene: Groundhog_41 Start: 30507, Stop: 28663, Start Num: 228

Candidate Starts for Groundhog_41:
(119, 30672), (Start: 228 @30507 has 960 MA's), (263, 30456), (343, 30333), (360, 30303), (384, 30264), (399, 30231), (410, 30201), (418, 30180), (424, 30174), (430, 30165), (448, 30123), (465, 30072), (489, 30024), (490, 30021), (570, 29925), (580, 29898), (587, 29880), (590, 29877), (595, 29868), (626, 29814), (643, 29787), (670, 29739), (696, 29682), (709, 29655), (733, 29604), (744, 29589), (798, 29442), (803, 29421), (815, 29391), (821, 29373), (823, 29370), (830, 29355), (836, 29334), (840, 29325), (847, 29298), (851, 29286), (855, 29268), (900, 29187), (904, 29175), (929, 29121), (942, 29085), (977, 29016), (990, 28995), (992, 28989), (1010, 28950), (1013, 28929), (1022, 28911), (1066, 28794), (1073, 28782),

Gene: Groupthink_49 Start: 31753, Stop: 29939, Start Num: 228
Candidate Starts for Groupthink_49:
(Start: 228 @31753 has 960 MA's), (257, 31714), (263, 31702), (360, 31549), (369, 31534), (399, 31477), (424, 31420), (430, 31411), (448, 31369), (465, 31318), (490, 31267), (570, 31174), (590, 31126), (607, 31102), (626, 31063), (643, 31036), (659, 31006), (703, 30913), (709, 30901), (732, 30853), (742, 30838), (803, 30682), (823, 30631), (835, 30598), (836, 30595), (855, 30529), (871, 30490), (901, 30418), (919, 30379), (929, 30355), (935, 30337), (949, 30304), (992, 30223), (1013, 30163), (1022, 30145), (1042, 30085), (1045, 30076), (1066, 30028), (1073, 30016), (1079, 30007),

Gene: Grub_48 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for Grub_48:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: Grum1_48 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for Grum1_48:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: Gruunaga_45 Start: 29627, Stop: 27786, Start Num: 228
Candidate Starts for Gruunaga_45:
(Start: 200 @29657 has 1 MA's), (Start: 228 @29627 has 960 MA's), (360, 29423), (399, 29348), (400, 29345), (410, 29318), (415, 29303), (424, 29291), (448, 29240), (485, 29150), (490, 29138), (570, 29045), (585, 29006), (595, 28988), (607, 28973), (643, 28907), (660, 28874), (663, 28871), (710, 28769), (742, 28709), (778, 28625), (803, 28544), (835, 28460), (836, 28457), (840, 28448), (847, 28421), (851, 28409), (855, 28391), (895, 28331), (906, 28292), (1009, 28076), (1010, 28073), (1013, 28052), (1066, 27917), (1073, 27905), (1079, 27896), (1082, 27893), (1115, 27800),

Gene: Gshelby23_9 Start: 8070, Stop: 5890, Start Num: 145
Candidate Starts for Gshelby23_9:
(Start: 145 @8070 has 7 MA's), (181, 8019), (205, 7989), (235, 7956), (322, 7842), (359, 7776), (373, 7749), (388, 7722), (389, 7719), (422, 7626), (464, 7512), (475, 7485), (499, 7440), (508, 7419), (516, 7374), (532, 7314), (537, 7287), (551, 7254), (612, 7155), (634, 7128), (642, 7116), (692, 7008), (711, 6963), (730, 6924), (733, 6918), (761, 6852), (778, 6798), (802, 6717), (807, 6708), (847, 6585), (851, 6573), (857, 6546), (887, 6447), (892, 6423), (913, 6354), (916, 6348), (930, 6321), (934, 6309), (940,

6291), (991, 6195), (1011, 6144), (1018, 6117), (1021, 6108), (1043, 6042), (1064, 5988), (1066, 5979), (1073, 5967),

Gene: GtownJaz_48 Start: 31854, Stop: 30040, Start Num: 228
Candidate Starts for GtownJaz_48:
(Start: 228 @31854 has 960 MA's), (257, 31815), (263, 31803), (360, 31650), (369, 31635), (399, 31578), (424, 31521), (430, 31512), (448, 31470), (465, 31419), (490, 31368), (570, 31275), (590, 31227), (595, 31218), (607, 31203), (626, 31164), (643, 31137), (659, 31107), (703, 31014), (709, 31002), (732, 30954), (742, 30939), (803, 30783), (836, 30696), (851, 30648), (855, 30630), (871, 30591), (901, 30519), (919, 30480), (929, 30456), (935, 30438), (949, 30405), (958, 30378), (992, 30324), (1013, 30264), (1042, 30186), (1066, 30129), (1073, 30117), (1079, 30108),

Gene: Gubbabump_38 Start: 28612, Stop: 26747, Start Num: 301
Candidate Starts for Gubbabump_38:
(Start: 241 @28699 has 3 MA's), (Start: 243 @28696 has 1 MA's), (Start: 301 @28612 has 153 MA's), (Start: 305 @28603 has 5 MA's), (353, 28498), (360, 28489), (378, 28459), (380, 28456), (435, 28336), (439, 28324), (442, 28318), (483, 28213), (494, 28186), (582, 28045), (585, 28039), (586, 28036), (590, 28024), (606, 27997), (607, 27994), (614, 27979), (618, 27973), (621, 27967), (638, 27934), (701, 27805), (726, 27745), (847, 27430), (850, 27421), (851, 27418), (855, 27400), (873, 27358), (877, 27352), (879, 27343), (888, 27328), (908, 27271), (974, 27112), (989, 27082), (992, 27073), (1010, 27013), (1013, 26989), (1028, 26950), (1040, 26917), (1044, 26905), (1068, 26845),

Gene: Guetzie_37 Start: 28567, Stop: 26717, Start Num: 297
Candidate Starts for Guetzie_37:
(209, 28708), (268, 28618), (Start: 297 @28567 has 21 MA's), (346, 28468), (360, 28444), (380, 28411), (431, 28300), (439, 28279), (442, 28273), (458, 28228), (460, 28222), (560, 28066), (586, 28003), (590, 27991), (607, 27961), (636, 27904), (768, 27610), (847, 27400), (850, 27391), (851, 27388), (855, 27370), (873, 27328), (908, 27241), (1010, 26983), (1013, 26959), (1014, 26956), (1025, 26926), (1068, 26815),

Gene: Gumpizza_37 Start: 27483, Stop: 29465, Start Num: 227
Candidate Starts for Gumpizza_37:
(Start: 227 @27483 has 33 MA's), (343, 27657), (360, 27687), (386, 27720), (400, 27753), (435, 27828), (447, 27855), (489, 27957), (544, 28056), (626, 28230), (643, 28257), (707, 28386), (768, 28524), (795, 28611), (803, 28644), (815, 28674), (836, 28731), (855, 28797), (898, 28890), (934, 28977), (1013, 29157), (1024, 29181), (1066, 29292), (1114, 29400),

Gene: GurgleFerb_36 Start: 31888, Stop: 30143, Start Num: 260
Candidate Starts for GurgleFerb_36:
(Start: 241 @31915 has 3 MA's), (Start: 260 @31888 has 6 MA's), (262, 31885), (Start: 277 @31852 has 1 MA's), (280, 31846), (337, 31753), (357, 31720), (374, 31693), (441, 31558), (536, 31429), (539, 31423), (556, 31399), (563, 31384), (573, 31357), (585, 31327), (626, 31246), (630, 31237), (664, 31177), (680, 31156), (735, 31042), (744, 31024), (872, 30646), (880, 30628), (921, 30562), (926, 30547), (1018, 30328), (1036, 30286), (1066, 30202), (1087, 30169),

Gene: Gustav_47 Start: 36228, Stop: 33886, Start Num: 11
Candidate Starts for Gustav_47:
(5, 36366), (Start: 11 @36228 has 3 MA's), (25, 36123), (27, 36099), (34, 36045), (39, 36018), (43, 36006), (50, 35973), (58, 35946), (71, 35904), (77, 35886), (85, 35862), (96, 35823), (103, 35808), (111, 35784), (160, 35772), (278, 35610), (309, 35577), (315, 35562), (406, 35388), (416, 35361), (419, 35355), (447, 35310), (458, 35289), (483, 35232), (487, 35226), (490, 35217), (497, 35199), (536, 35193), (569, 35136), (627, 35022), (630, 35016), (632, 35013), (649, 34983), (664, 34953), (722, 34833), (769, 34707), (775, 34689), (783, 34659), (787, 34650), (804, 34593), (831, 34536),

(840, 34512), (846, 34488), (848, 34482), (877, 34410), (897, 34383), (900, 34374), (901, 34371), (906, 34356), (919, 34332), (929, 34308), (939, 34278), (946, 34266), (953, 34245), (989, 34185), (1001, 34152), (1007, 34137), (1024, 34080), (1042, 34026), (1043, 34023), (1054, 33999), (1059, 33987), (1082, 33936), (1093, 33912),

Gene: Gwendoluna_47 Start: 36544, Stop: 34718, Start Num: 228
Candidate Starts for Gwendoluna_47:
(Start: 228 @36544 has 960 MA's), (366, 36331), (373, 36316), (399, 36268), (410, 36238), (418, 36217), (424, 36211), (430, 36202), (479, 36085), (490, 36058), (570, 35965), (576, 35950), (590, 35917), (621, 35866), (622, 35863), (659, 35797), (680, 35767), (690, 35737), (709, 35692), (729, 35653), (803, 35473), (821, 35425), (836, 35386), (855, 35320), (871, 35281), (895, 35260), (900, 35239), (906, 35221), (935, 35155), (1009, 35005), (1010, 35002), (1018, 34966), (1032, 34942), (1035, 34933), (1039, 34921), (1066, 34846), (1079, 34825),

Gene: Gwennie_48 Start: 31856, Stop: 30042, Start Num: 228
Candidate Starts for Gwennie_48:
(Start: 228 @31856 has 960 MA's), (257, 31817), (263, 31805), (360, 31652), (369, 31637), (399, 31580), (424, 31523), (430, 31514), (448, 31472), (465, 31421), (490, 31370), (570, 31277), (590, 31229), (595, 31220), (607, 31205), (626, 31166), (643, 31139), (659, 31109), (703, 31016), (732, 30956), (742, 30941), (803, 30785), (836, 30698), (855, 30632), (871, 30593), (901, 30521), (919, 30482), (929, 30458), (935, 30440), (949, 30407), (958, 30380), (992, 30326), (1013, 30266), (1042, 30188), (1066, 30131), (1073, 30119), (1079, 30110),

Gene: Gwennie1_60 Start: 54324, Stop: 52465, Start Num: 190
Candidate Starts for Gwennie1_60:
(Start: 173 @54348 has 3 MA's), (Start: 190 @54324 has 336 MA's), (Start: 222 @54300 has 3 MA's), (Start: 232 @54294 has 2 MA's), (261, 54252), (274, 54231), (336, 54117), (339, 54111), (355, 54081), (390, 54021), (398, 54000), (416, 53946), (429, 53934), (436, 53916), (440, 53904), (487, 53799), (552, 53742), (569, 53706), (573, 53694), (585, 53667), (611, 53622), (643, 53565), (648, 53556), (649, 53553), (796, 53193), (804, 53160), (812, 53139), (848, 53046), (851, 53037), (877, 52974), (900, 52938), (901, 52935), (906, 52920), (939, 52842), (946, 52830), (953, 52809), (976, 52770), (1013, 52680), (1022, 52662), (1024, 52656), (1032, 52641), (1040, 52617), (1042, 52602), (1043, 52599), (1047, 52587), (1059, 52563), (1082, 52515), (1093, 52491),

Gene: Gwilliam_61 Start: 54930, Stop: 53071, Start Num: 190
Candidate Starts for Gwilliam_61:
(Start: 173 @54954 has 3 MA's), (Start: 190 @54930 has 336 MA's), (Start: 222 @54906 has 3 MA's), (Start: 232 @54900 has 2 MA's), (261, 54858), (274, 54837), (336, 54723), (339, 54717), (355, 54687), (390, 54627), (398, 54606), (416, 54552), (429, 54540), (436, 54522), (440, 54510), (487, 54405), (552, 54348), (569, 54312), (573, 54300), (585, 54273), (601, 54246), (611, 54228), (622, 54210), (643, 54171), (648, 54162), (649, 54159), (796, 53799), (804, 53766), (812, 53745), (848, 53652), (851, 53643), (877, 53580), (900, 53544), (901, 53541), (906, 53526), (939, 53448), (946, 53436), (953, 53415), (976, 53376), (1013, 53286), (1022, 53268), (1024, 53262), (1032, 53247), (1040, 53223), (1042, 53208), (1043, 53205), (1047, 53193), (1059, 53169), (1082, 53121), (1093, 53097),

Gene: Gyarad_0059 Start: 53612, Stop: 51753, Start Num: 190
Candidate Starts for Gyarad_0059:
(Start: 173 @53636 has 3 MA's), (Start: 190 @53612 has 336 MA's), (Start: 222 @53588 has 3 MA's), (Start: 232 @53582 has 2 MA's), (261, 53540), (274, 53519), (336, 53405), (339, 53399), (355, 53369), (390, 53309), (398, 53288), (416, 53234), (429, 53222), (436, 53204), (440, 53192), (487, 53087), (552, 53030), (569, 52994), (573, 52982), (585, 52955), (590, 52946), (611, 52910), (643, 52853), (648, 52844), (649, 52841), (651, 52838), (796, 52481), (804, 52448), (812, 52427), (848, 52334), (851, 52325), (877, 52262), (900, 52226), (901, 52223), (906, 52208), (939, 52130), (946, 52118),

(953, 52097), (976, 52058), (1013, 51968), (1022, 51950), (1024, 51944), (1032, 51929), (1040, 51905), (1042, 51890), (1043, 51887), (1047, 51875), (1059, 51851), (1082, 51803), (1093, 51779),

Gene: Gyzlar_41 Start: 32798, Stop: 30972, Start Num: 228
Candidate Starts for Gyzlar_41:
(Start: 228 @32798 has 960 MA's), (366, 32585), (373, 32570), (399, 32522), (410, 32492), (418, 32471), (424, 32465), (430, 32456), (479, 32339), (490, 32312), (570, 32219), (576, 32204), (590, 32171), (621, 32120), (622, 32117), (659, 32051), (680, 32021), (690, 31991), (709, 31946), (729, 31907), (803, 31727), (821, 31679), (836, 31640), (855, 31574), (871, 31535), (895, 31514), (900, 31493), (906, 31475), (935, 31409), (1009, 31259), (1010, 31256), (1018, 31220), (1032, 31196), (1035, 31187), (1039, 31175), (1045, 31148), (1066, 31100), (1079, 31079),

Gene: HINdeR_41 Start: 32902, Stop: 31064, Start Num: 228
Candidate Starts for HINdeR_41:
(Start: 228 @32902 has 960 MA's), (Start: 241 @32881 has 3 MA's), (304, 32791), (343, 32728), (366, 32689), (388, 32653), (424, 32569), (435, 32548), (465, 32467), (485, 32428), (490, 32416), (566, 32332), (570, 32320), (580, 32293), (587, 32275), (592, 32272), (607, 32251), (626, 32212), (683, 32119), (694, 32083), (696, 32080), (707, 32059), (744, 31987), (755, 31966), (803, 31822), (821, 31774), (830, 31756), (840, 31726), (851, 31687), (855, 31669), (871, 31630), (900, 31561), (901, 31558), (919, 31519), (935, 31477), (936, 31474), (949, 31444), (990, 31354), (992, 31348), (1013, 31288), (1022, 31270), (1036, 31237), (1042, 31210), (1066, 31153), (1073, 31141), (1079, 31132),

Gene: HSavage_59 Start: 54056, Stop: 52197, Start Num: 190
Candidate Starts for HSavage_59:
(Start: 173 @54080 has 3 MA's), (Start: 190 @54056 has 336 MA's), (Start: 222 @54032 has 3 MA's), (Start: 232 @54026 has 2 MA's), (261, 53984), (274, 53963), (336, 53849), (339, 53843), (355, 53813), (390, 53753), (398, 53732), (416, 53678), (429, 53666), (436, 53648), (440, 53636), (487, 53531), (552, 53474), (569, 53438), (573, 53426), (585, 53399), (611, 53354), (643, 53297), (648, 53288), (649, 53285), (651, 53282), (761, 53027), (796, 52925), (804, 52892), (812, 52871), (848, 52778), (851, 52769), (877, 52706), (900, 52670), (901, 52667), (906, 52652), (939, 52574), (946, 52562), (953, 52541), (976, 52502), (1013, 52412), (1022, 52394), (1024, 52388), (1032, 52373), (1040, 52349), (1042, 52334), (1043, 52331), (1047, 52319), (1059, 52295), (1082, 52247), (1093, 52223),

Gene: Haimas_59 Start: 53973, Stop: 52114, Start Num: 190
Candidate Starts for Haimas_59:
(Start: 173 @53997 has 3 MA's), (Start: 190 @53973 has 336 MA's), (Start: 222 @53949 has 3 MA's), (Start: 232 @53943 has 2 MA's), (261, 53901), (274, 53880), (336, 53766), (339, 53760), (355, 53730), (390, 53670), (398, 53649), (416, 53595), (429, 53583), (436, 53565), (440, 53553), (487, 53448), (552, 53391), (569, 53355), (573, 53343), (585, 53316), (601, 53289), (611, 53271), (622, 53253), (643, 53214), (648, 53205), (649, 53202), (651, 53199), (761, 52944), (796, 52842), (804, 52809), (812, 52788), (848, 52695), (851, 52686), (877, 52623), (900, 52587), (901, 52584), (906, 52569), (939, 52491), (946, 52479), (953, 52458), (976, 52419), (1013, 52329), (1022, 52311), (1024, 52305), (1032, 52290), (1040, 52266), (1042, 52251), (1043, 52248), (1047, 52236), (1059, 52212), (1082, 52164), (1093, 52140),

Gene: HairyMan_35 Start: 28016, Stop: 26154, Start Num: 297
Candidate Starts for HairyMan_35:
(Start: 297 @28016 has 21 MA's), (404, 27803), (439, 27728), (442, 27722), (474, 27632), (489, 27602), (542, 27539), (559, 27503), (582, 27446), (586, 27437), (590, 27425), (607, 27395), (618, 27374), (659, 27293), (701, 27212), (706, 27197), (719, 27167), (752, 27092), (767, 27053), (770, 27041), (851, 26825), (855, 26807), (873, 26765), (908, 26678), (974, 26519), (1013, 26396), (1017, 26384), (1025, 26363), (1028, 26357), (1033, 26348), (1040, 26324), (1068, 26252),

Gene: Haleema_59 Start: 54071, Stop: 52212, Start Num: 190
Candidate Starts for Haleema_59:
(Start: 173 @54095 has 3 MA's), (Start: 190 @54071 has 336 MA's), (Start: 222 @54047 has 3 MA's), (Start: 232 @54041 has 2 MA's), (261, 53999), (274, 53978), (336, 53864), (339, 53858), (355, 53828), (390, 53768), (398, 53747), (416, 53693), (429, 53681), (436, 53663), (440, 53651), (487, 53546), (552, 53489), (569, 53453), (573, 53441), (583, 53417), (590, 53405), (601, 53387), (611, 53369), (622, 53351), (643, 53312), (648, 53303), (649, 53300), (651, 53297), (796, 52940), (804, 52907), (812, 52886), (848, 52793), (851, 52784), (877, 52721), (900, 52685), (901, 52682), (906, 52667), (939, 52589), (946, 52577), (953, 52556), (976, 52517), (1013, 52427), (1022, 52409), (1024, 52403), (1032, 52388), (1040, 52364), (1042, 52349), (1043, 52346), (1047, 52334), (1059, 52310), (1082, 52262), (1093, 52238),

Gene: Halfpint_57 Start: 53415, Stop: 51598, Start Num: 230
Candidate Starts for Halfpint_57:
(110, 53598), (Start: 230 @53415 has 52 MA's), (249, 53385), (366, 53205), (435, 53052), (439, 53040), (452, 53010), (458, 53004), (487, 52941), (489, 52935), (552, 52884), (569, 52848), (590, 52800), (649, 52695), (694, 52599), (722, 52548), (775, 52404), (787, 52365), (797, 52335), (804, 52308), (810, 52296), (846, 52200), (848, 52194), (851, 52185), (854, 52173), (883, 52101), (900, 52071), (906, 52053), (912, 52044), (939, 51975), (946, 51963), (953, 51942), (992, 51873), (1002, 51858), (1010, 51834), (1013, 51813), (1022, 51795), (1024, 51789), (1040, 51750), (1043, 51732), (1047, 51720), (1059, 51696), (1078, 51654), (1093, 51624),

Gene: Hally898_52 Start: 52998, Stop: 51175, Start Num: 182
Candidate Starts for Hally898_52:
(Start: 163 @53016 has 29 MA's), (Start: 182 @52998 has 33 MA's), (Start: 232 @52974 has 2 MA's), (249, 52947), (261, 52932), (274, 52911), (324, 52824), (386, 52719), (402, 52677), (436, 52611), (449, 52581), (452, 52572), (457, 52569), (458, 52566), (467, 52539), (552, 52446), (560, 52428), (569, 52410), (573, 52398), (580, 52383), (585, 52371), (648, 52260), (649, 52257), (664, 52227), (685, 52191), (775, 51966), (776, 51963), (787, 51927), (796, 51903), (804, 51870), (846, 51762), (848, 51756), (850, 51750), (851, 51747), (900, 51648), (901, 51645), (906, 51630), (939, 51552), (946, 51540), (953, 51519), (955, 51510), (976, 51480), (990, 51456), (1007, 51423), (1013, 51390), (1022, 51372), (1024, 51366), (1040, 51327), (1043, 51309), (1047, 51297), (1059, 51273), (1078, 51231), (1082, 51225), (1093, 51201),

Gene: Halsey_38 Start: 27738, Stop: 29720, Start Num: 227
Candidate Starts for Halsey_38:
(Start: 227 @27738 has 33 MA's), (343, 27912), (360, 27942), (386, 27975), (400, 28008), (435, 28083), (447, 28110), (544, 28311), (626, 28485), (707, 28641), (768, 28779), (795, 28866), (803, 28899), (815, 28929), (836, 28986), (855, 29052), (898, 29145), (1013, 29412), (1024, 29436), (1066, 29547),

Gene: HamSlice_44 Start: 31568, Stop: 29742, Start Num: 228
Candidate Starts for HamSlice_44:
(Start: 228 @31568 has 960 MA's), (Start: 241 @31547 has 3 MA's), (263, 31517), (278, 31487), (384, 31325), (394, 31307), (424, 31235), (430, 31226), (480, 31106), (490, 31082), (570, 30989), (592, 30941), (607, 30920), (626, 30881), (696, 30749), (707, 30728), (729, 30683), (733, 30671), (798, 30518), (803, 30497), (847, 30374), (855, 30344), (871, 30305), (900, 30239), (901, 30236), (906, 30221), (919, 30197), (929, 30173), (1013, 29966), (1066, 29831), (1073, 29819), (1079, 29810),

Gene: Hami1_39 Start: 29239, Stop: 27413, Start Num: 228
Candidate Starts for Hami1_39:
(Start: 228 @29239 has 960 MA's), (366, 29026), (373, 29011), (399, 28963), (410, 28933), (418, 28912), (424, 28906), (430, 28897), (479, 28780), (490, 28753), (570, 28660), (576, 28645), (590,

28612), (621, 28561), (622, 28558), (659, 28492), (680, 28462), (690, 28432), (709, 28387), (729, 28348), (803, 28168), (815, 28138), (821, 28120), (836, 28081), (855, 28015), (900, 27934), (901, 27931), (935, 27850), (1009, 27700), (1010, 27697), (1018, 27661), (1032, 27637), (1035, 27628), (1039, 27616), (1066, 27541), (1079, 27520),

Gene: Hamish_59 Start: 53967, Stop: 52108, Start Num: 190
Candidate Starts for Hamish_59:
(Start: 173 @53991 has 3 MA's), (Start: 190 @53967 has 336 MA's), (Start: 222 @53943 has 3 MA's), (Start: 232 @53937 has 2 MA's), (261, 53895), (274, 53874), (336, 53760), (339, 53754), (355, 53724), (390, 53664), (398, 53643), (416, 53589), (429, 53577), (436, 53559), (440, 53547), (487, 53442), (552, 53385), (569, 53349), (573, 53337), (585, 53310), (601, 53283), (611, 53265), (622, 53247), (643, 53208), (648, 53199), (649, 53196), (651, 53193), (761, 52938), (796, 52836), (804, 52803), (812, 52782), (848, 52689), (851, 52680), (877, 52617), (900, 52581), (901, 52578), (906, 52563), (939, 52485), (946, 52473), (953, 52452), (976, 52413), (1013, 52323), (1022, 52305), (1024, 52299), (1032, 52284), (1040, 52260), (1042, 52245), (1043, 52242), (1047, 52230), (1059, 52206), (1082, 52158), (1093, 52134),

Gene: Hamlet_38 Start: 29064, Stop: 27199, Start Num: 301
Candidate Starts for Hamlet_38:
(Start: 301 @29064 has 153 MA's), (Start: 305 @29055 has 5 MA's), (433, 28791), (439, 28776), (442, 28770), (494, 28638), (545, 28584), (582, 28497), (586, 28488), (590, 28476), (606, 28449), (607, 28446), (614, 28431), (618, 28425), (636, 28389), (659, 28344), (726, 28197), (768, 28095), (847, 27882), (851, 27870), (855, 27852), (873, 27810), (889, 27780), (908, 27723), (974, 27564), (989, 27534), (1010, 27465), (1013, 27441), (1028, 27402), (1044, 27357),

Gene: Hammer_47 Start: 29790, Stop: 27991, Start Num: 228
Candidate Starts for Hammer_47:
(Start: 228 @29790 has 960 MA's), (360, 29586), (366, 29577), (399, 29511), (400, 29508), (410, 29481), (415, 29466), (424, 29454), (448, 29403), (485, 29313), (490, 29301), (570, 29208), (590, 29160), (595, 29151), (693, 28968), (771, 28818), (803, 28713), (823, 28656), (836, 28620), (840, 28611), (847, 28584), (855, 28554), (871, 28515), (895, 28494), (904, 28461), (906, 28455), (949, 28356), (982, 28293), (1009, 28239), (1013, 28215), (1038, 28158), (1066, 28080), (1073, 28068), (1079, 28059), (1082, 28056),

Gene: HanShotFirst_43 Start: 33831, Stop: 32005, Start Num: 228
Candidate Starts for HanShotFirst_43:
(Start: 228 @33831 has 960 MA's), (366, 33618), (373, 33603), (399, 33555), (410, 33525), (418, 33504), (424, 33498), (430, 33489), (479, 33372), (490, 33345), (570, 33252), (576, 33237), (590, 33204), (621, 33153), (622, 33150), (659, 33084), (680, 33054), (690, 33024), (709, 32979), (729, 32940), (803, 32760), (821, 32712), (836, 32673), (855, 32607), (871, 32568), (895, 32547), (900, 32526), (906, 32508), (935, 32442), (1009, 32292), (1010, 32289), (1018, 32253), (1032, 32229), (1035, 32220), (1039, 32208), (1066, 32133), (1079, 32112),

Gene: HanSolo_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for HanSolo_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Hangman_53 Start: 54053, Stop: 52230, Start Num: 182
Candidate Starts for Hangman_53:
(Start: 163 @54071 has 29 MA's), (Start: 182 @54053 has 33 MA's), (Start: 232 @54029 has 2 MA's), (249, 54002), (261, 53987), (274, 53966), (324, 53879), (386, 53774), (398, 53747), (402, 53732), (436, 53666), (449, 53636), (452, 53627), (457, 53624), (458, 53621), (467, 53594), (552, 53501), (560, 53483), (569, 53465), (573, 53453), (585, 53426), (622, 53363), (643, 53324), (648, 53315), (649, 53312), (664, 53282), (685, 53246), (775, 53021), (776, 53018), (787, 52982), (796, 52958), (804, 52925), (846, 52817), (848, 52811), (851, 52802), (900, 52703), (901, 52700), (906, 52685), (939, 52607), (946, 52595), (953, 52574), (955, 52565), (976, 52535), (1007, 52478), (1013, 52445), (1024, 52421), (1040, 52382), (1043, 52364), (1047, 52352), (1059, 52328), (1078, 52286), (1082, 52280), (1093, 52256),

Gene: HankSprout_39 Start: 28499, Stop: 26634, Start Num: 301
Candidate Starts for HankSprout_39:
(Start: 241 @28586 has 3 MA's), (Start: 243 @28583 has 1 MA's), (Start: 301 @28499 has 153 MA's), (Start: 305 @28490 has 5 MA's), (353, 28385), (360, 28376), (378, 28346), (380, 28343), (435, 28223), (439, 28211), (442, 28205), (483, 28100), (494, 28073), (582, 27932), (585, 27926), (586, 27923), (590, 27911), (606, 27884), (607, 27881), (614, 27866), (618, 27860), (621, 27854), (638, 27821), (701, 27692), (726, 27632), (847, 27317), (850, 27308), (851, 27305), (855, 27287), (873, 27245), (877, 27239), (879, 27230), (888, 27215), (908, 27158), (974, 26999), (989, 26969), (992, 26960), (1010, 26900), (1013, 26876), (1028, 26837), (1040, 26804), (1044, 26792), (1068, 26732),

Gene: Hannabella_10 Start: 7950, Stop: 5773, Start Num: 145
Candidate Starts for Hannabella_10:
(Start: 145 @7950 has 7 MA's), (181, 7899), (258, 7806), (322, 7722), (324, 7719), (359, 7656), (373, 7629), (388, 7602), (389, 7599), (422, 7506), (475, 7365), (477, 7362), (499, 7320), (508, 7299), (516, 7254), (532, 7194), (537, 7167), (551, 7134), (612, 7035), (634, 7008), (642, 6996), (692, 6888), (711, 6843), (730, 6804), (733, 6798), (761, 6732), (778, 6678), (802, 6597), (807, 6588), (847, 6465), (851, 6453), (857, 6426), (887, 6327), (892, 6303), (913, 6234), (916, 6228), (930, 6201), (934, 6189), (940, 6171), (991, 6075), (1011, 6024), (1018, 5997), (1021, 5988), (1064, 5871), (1066, 5862), (1073, 5850),

Gene: Hanray_43 Start: 31494, Stop: 29701, Start Num: 228
Candidate Starts for Hanray_43:
(Start: 228 @31494 has 960 MA's), (235, 31485), (263, 31443), (342, 31323), (343, 31320), (370, 31272), (400, 31212), (411, 31182), (415, 31170), (424, 31158), (490, 31005), (570, 30912), (643, 30774), (659, 30744), (733, 30585), (742, 30573), (764, 30546), (798, 30438), (803, 30417), (851, 30282), (855, 30264), (900, 30183), (919, 30141), (949, 30066), (990, 29991), (1009, 29949), (1042, 29847), (1066, 29790), (1073, 29778), (1079, 29769),

Gene: Happabalu_61 Start: 55107, Stop: 53248, Start Num: 190
Candidate Starts for Happabalu_61:
(Start: 173 @55131 has 3 MA's), (Start: 190 @55107 has 336 MA's), (Start: 222 @55083 has 3 MA's), (Start: 232 @55077 has 2 MA's), (261, 55035), (274, 55014), (336, 54900), (339, 54894), (355, 54864), (390, 54804), (398, 54783), (416, 54729), (429, 54717), (436, 54699), (440, 54687), (487, 54582), (552, 54525), (569, 54489), (573, 54477), (585, 54450), (611, 54405), (643, 54348), (648, 54339), (649, 54336), (796, 53976), (804, 53943), (812, 53922), (848, 53829), (851, 53820), (877, 53757), (900, 53721), (901, 53718), (906, 53703), (939, 53625), (946, 53613), (953, 53592), (976, 53553), (1013, 53463), (1022, 53445), (1024, 53439), (1032, 53424), (1040, 53400), (1042, 53385), (1043, 53382), (1047, 53370), (1059, 53346), (1082, 53298), (1093, 53274),

Gene: Happiness_44 Start: 31575, Stop: 29749, Start Num: 228
Candidate Starts for Happiness_44:

(Start: 228 @31575 has 960 MA's), (Start: 241 @31554 has 3 MA's), (263, 31524), (278, 31494), (384, 31332), (394, 31314), (424, 31242), (430, 31233), (480, 31113), (490, 31089), (570, 30996), (592, 30948), (607, 30927), (626, 30888), (696, 30756), (707, 30735), (729, 30690), (733, 30678), (798, 30525), (803, 30504), (847, 30381), (855, 30351), (871, 30312), (900, 30246), (901, 30243), (906, 30228), (919, 30204), (929, 30180), (1013, 29973), (1066, 29838), (1073, 29826), (1079, 29817),

Gene: Harlequin_36 Start: 28118, Stop: 26334, Start Num: 228
Candidate Starts for Harlequin_36:
(Start: 228 @28118 has 960 MA's), (379, 27884), (396, 27854), (398, 27845), (399, 27842), (415, 27797), (424, 27785), (448, 27734), (490, 27632), (498, 27611), (570, 27539), (590, 27491), (626, 27428), (643, 27401), (696, 27296), (709, 27269), (729, 27230), (803, 27050), (821, 27002), (855, 26897), (856, 26894), (895, 26837), (900, 26816), (951, 26693), (990, 26624), (1009, 26582), (1013, 26558), (1042, 26480), (1066, 26423), (1073, 26411), (1100, 26354),

Gene: HarryHoudini_45 Start: 31805, Stop: 30018, Start Num: 228
Candidate Starts for HarryHoudini_45:
(Start: 228 @31805 has 960 MA's), (360, 31601), (362, 31598), (366, 31592), (384, 31562), (399, 31529), (400, 31526), (410, 31499), (424, 31472), (435, 31451), (448, 31421), (490, 31319), (570, 31226), (590, 31178), (595, 31169), (607, 31154), (643, 31088), (686, 31007), (707, 30959), (778, 30815), (803, 30734), (823, 30683), (835, 30650), (855, 30581), (871, 30542), (895, 30521), (900, 30500), (904, 30488), (990, 30308), (992, 30302), (1009, 30266), (1013, 30242), (1042, 30164), (1066, 30107), (1073, 30095),

Gene: HarryOW_43 Start: 33978, Stop: 32152, Start Num: 228
Candidate Starts for HarryOW_43:
(Start: 228 @33978 has 960 MA's), (366, 33765), (373, 33750), (399, 33702), (410, 33672), (418, 33651), (424, 33645), (430, 33636), (479, 33519), (490, 33492), (570, 33399), (576, 33384), (590, 33351), (621, 33300), (622, 33297), (659, 33231), (680, 33201), (690, 33171), (709, 33126), (729, 33087), (803, 32907), (821, 32859), (836, 32820), (855, 32754), (871, 32715), (895, 32694), (900, 32673), (906, 32655), (935, 32589), (1009, 32439), (1010, 32436), (1018, 32400), (1032, 32376), (1035, 32367), (1039, 32355), (1066, 32280), (1079, 32259),

Gene: Hartsy_61 Start: 54405, Stop: 52546, Start Num: 190
Candidate Starts for Hartsy_61:
(Start: 173 @54429 has 3 MA's), (Start: 190 @54405 has 336 MA's), (Start: 222 @54381 has 3 MA's), (Start: 232 @54375 has 2 MA's), (261, 54333), (274, 54312), (336, 54198), (339, 54192), (355, 54162), (390, 54102), (398, 54081), (416, 54027), (429, 54015), (436, 53997), (440, 53985), (487, 53880), (552, 53823), (569, 53787), (573, 53775), (583, 53751), (590, 53739), (601, 53721), (611, 53703), (622, 53685), (643, 53646), (648, 53637), (649, 53634), (651, 53631), (796, 53274), (804, 53241), (812, 53220), (848, 53127), (851, 53118), (877, 53055), (900, 53019), (901, 53016), (906, 53001), (939, 52923), (946, 52911), (953, 52890), (976, 52851), (1013, 52761), (1022, 52743), (1024, 52737), (1032, 52722), (1040, 52698), (1042, 52683), (1043, 52680), (1047, 52668), (1059, 52644), (1082, 52596), (1093, 52572),

Gene: Harvey_59 Start: 54060, Stop: 52201, Start Num: 190
Candidate Starts for Harvey_59:
(Start: 173 @54084 has 3 MA's), (Start: 190 @54060 has 336 MA's), (Start: 222 @54036 has 3 MA's), (Start: 232 @54030 has 2 MA's), (261, 53988), (274, 53967), (336, 53853), (339, 53847), (355, 53817), (390, 53757), (398, 53736), (416, 53682), (429, 53670), (436, 53652), (440, 53640), (487, 53535), (552, 53478), (569, 53442), (573, 53430), (585, 53403), (601, 53376), (611, 53358), (622, 53340), (643, 53301), (648, 53292), (649, 53289), (761, 53031), (796, 52929), (804, 52896), (812, 52875), (848, 52782), (851, 52773), (877, 52710), (901, 52671), (906, 52656), (939, 52578), (946, 52566), (953, 52545), (976, 52506), (1013, 52416), (1022, 52398), (1024, 52392), (1032, 52377), (1040,

52353), (1042, 52338), (1043, 52335), (1047, 52323), (1059, 52299), (1082, 52251), (1093, 52227),

Gene: HarveySr_57 Start: 53268, Stop: 51448, Start Num: 228
Candidate Starts for HarveySr_57:
(110, 53448), (Start: 228 @53268 has 960 MA's), (249, 53235), (366, 53055), (411, 52950), (435, 52902), (439, 52890), (452, 52860), (458, 52854), (487, 52791), (489, 52785), (552, 52734), (566, 52707), (569, 52698), (590, 52650), (649, 52545), (694, 52449), (722, 52398), (775, 52254), (787, 52215), (797, 52185), (804, 52158), (810, 52146), (846, 52050), (848, 52044), (851, 52035), (854, 52023), (883, 51951), (900, 51921), (906, 51903), (912, 51894), (939, 51825), (946, 51813), (953, 51792), (992, 51723), (1002, 51708), (1010, 51684), (1022, 51645), (1024, 51639), (1038, 51606), (1040, 51600), (1043, 51582), (1047, 51570), (1054, 51558), (1059, 51546), (1093, 51474),

Gene: HashRod_49 Start: 31884, Stop: 30070, Start Num: 228
Candidate Starts for HashRod_49:
(Start: 228 @31884 has 960 MA's), (257, 31845), (263, 31833), (360, 31680), (369, 31665), (399, 31608), (424, 31551), (430, 31542), (448, 31500), (465, 31449), (490, 31398), (552, 31344), (570, 31305), (590, 31257), (607, 31233), (626, 31194), (643, 31167), (659, 31137), (703, 31044), (709, 31032), (732, 30984), (742, 30969), (803, 30813), (823, 30762), (835, 30729), (836, 30726), (855, 30660), (871, 30621), (901, 30549), (919, 30510), (929, 30486), (935, 30468), (949, 30435), (992, 30354), (1013, 30294), (1045, 30207), (1066, 30159), (1073, 30147), (1079, 30138), (1082, 30135),

Gene: Hashim76_61 Start: 54527, Stop: 52683, Start Num: 215
Candidate Starts for Hashim76_61:
(Start: 215 @54527 has 12 MA's), (261, 54470), (Start: 276 @54443 has 2 MA's), (339, 54341), (390, 54254), (399, 54230), (409, 54200), (416, 54179), (435, 54155), (440, 54140), (449, 54122), (487, 54035), (569, 53942), (573, 53930), (590, 53894), (649, 53789), (722, 53642), (750, 53558), (753, 53552), (775, 53492), (776, 53489), (787, 53453), (796, 53429), (804, 53396), (846, 53288), (848, 53282), (851, 53273), (900, 53159), (906, 53141), (939, 53063), (946, 53051), (953, 53030), (992, 52961), (1002, 52946), (1013, 52901), (1024, 52877), (1040, 52838), (1042, 52823), (1047, 52808), (1059, 52784), (1078, 52739), (1093, 52709),

Gene: Hasitha_37 Start: 27003, Stop: 25138, Start Num: 301
Candidate Starts for Hasitha_37:
(Start: 301 @27003 has 153 MA's), (304, 26997), (349, 26898), (353, 26889), (369, 26865), (378, 26850), (382, 26844), (402, 26793), (404, 26790), (442, 26709), (463, 26649), (502, 26559), (533, 26556), (574, 26457), (585, 26430), (586, 26427), (590, 26415), (607, 26385), (618, 26364), (636, 26328), (706, 26181), (751, 26079), (777, 26001), (847, 25821), (855, 25791), (878, 25737), (889, 25719), (908, 25662), (917, 25635), (933, 25593), (949, 25554), (989, 25473), (992, 25464), (1010, 25404), (1013, 25380), (1017, 25368), (1020, 25359), (1028, 25341), (1040, 25308), (1068, 25236),

Gene: HaveUMetTed_49 Start: 31735, Stop: 29921, Start Num: 228
Candidate Starts for HaveUMetTed_49:
(Start: 228 @31735 has 960 MA's), (257, 31696), (263, 31684), (360, 31531), (369, 31516), (399, 31459), (424, 31402), (430, 31393), (448, 31351), (465, 31300), (490, 31249), (570, 31156), (590, 31108), (607, 31084), (626, 31045), (643, 31018), (659, 30988), (703, 30895), (709, 30883), (732, 30835), (742, 30820), (803, 30664), (823, 30613), (835, 30580), (836, 30577), (855, 30511), (871, 30472), (901, 30400), (919, 30361), (929, 30337), (935, 30319), (949, 30286), (992, 30205), (1013, 30145), (1022, 30127), (1042, 30067), (1045, 30058), (1066, 30010), (1073, 29998), (1079, 29989),

Gene: HavenFinLeoSun_40 Start: 29283, Stop: 27415, Start Num: 301
Candidate Starts for HavenFinLeoSun_40:
(Start: 241 @29370 has 3 MA's), (Start: 243 @29367 has 1 MA's), (Start: 301 @29283 has 153 MA's), (Start: 305 @29274 has 5 MA's), (378, 29130), (380, 29127), (431, 29016), (435, 29007), (439, 28995),

(442, 28989), (483, 28884), (552, 28791), (586, 28707), (590, 28695), (607, 28665), (614, 28650), (618, 28644), (623, 28632), (701, 28476), (706, 28461), (726, 28416), (847, 28101), (855, 28071), (873, 28029), (901, 27963), (908, 27939), (924, 27894), (974, 27780), (1010, 27681), (1013, 27657), (1015, 27651), (1028, 27618), (1044, 27573),

Gene: Heath_52 Start: 53664, Stop: 51841, Start Num: 182
Candidate Starts for Heath_52:
(Start: 163 @53682 has 29 MA's), (Start: 182 @53664 has 33 MA's), (Start: 232 @53640 has 2 MA's), (249, 53613), (261, 53598), (274, 53577), (324, 53490), (386, 53385), (402, 53343), (436, 53277), (449, 53247), (452, 53238), (457, 53235), (458, 53232), (552, 53112), (560, 53094), (569, 53076), (573, 53064), (580, 53049), (585, 53037), (648, 52926), (649, 52923), (664, 52893), (685, 52857), (775, 52632), (776, 52629), (787, 52593), (796, 52569), (804, 52536), (846, 52428), (848, 52422), (851, 52413), (900, 52314), (901, 52311), (906, 52296), (939, 52218), (946, 52206), (953, 52185), (955, 52176), (976, 52146), (1007, 52089), (1013, 52056), (1022, 52038), (1024, 52032), (1040, 51993), (1043, 51975), (1047, 51963), (1059, 51939), (1078, 51897), (1082, 51891), (1093, 51867),

Gene: Heathcliff_58 Start: 53642, Stop: 51825, Start Num: 230
Candidate Starts for Heathcliff_58:
(110, 53825), (Start: 230 @53642 has 52 MA's), (249, 53612), (366, 53432), (435, 53279), (439, 53267), (452, 53237), (458, 53231), (487, 53168), (489, 53162), (552, 53111), (569, 53075), (590, 53027), (649, 52922), (694, 52826), (722, 52775), (775, 52631), (787, 52592), (797, 52562), (804, 52535), (810, 52523), (846, 52427), (848, 52421), (851, 52412), (854, 52400), (883, 52328), (900, 52298), (906, 52280), (912, 52271), (939, 52202), (946, 52190), (953, 52169), (992, 52100), (1002, 52085), (1010, 52061), (1013, 52040), (1024, 52016), (1040, 51977), (1043, 51959), (1047, 51947), (1054, 51935), (1059, 51923), (1078, 51881), (1093, 51851),

Gene: Heathen_45 Start: 31183, Stop: 29345, Start Num: 228
Candidate Starts for Heathen_45:
(171, 31255), (Start: 228 @31183 has 960 MA's), (263, 31132), (360, 30979), (396, 30919), (399, 30907), (424, 30850), (430, 30841), (435, 30829), (480, 30721), (490, 30697), (570, 30601), (592, 30553), (626, 30493), (663, 30430), (696, 30361), (707, 30340), (742, 30271), (746, 30265), (767, 30226), (803, 30103), (836, 30016), (847, 29980), (855, 29950), (869, 29920), (901, 29839), (919, 29800), (929, 29776), (935, 29758), (992, 29629), (1013, 29569), (1066, 29434), (1073, 29422), (1079, 29413),

Gene: Heather_37 Start: 27927, Stop: 29858, Start Num: 228
Candidate Starts for Heather_37:
(Start: 228 @27927 has 960 MA's), (Start: 241 @27948 has 3 MA's), (278, 28008), (360, 28137), (390, 28185), (394, 28194), (410, 28239), (556, 28476), (566, 28497), (572, 28515), (599, 28572), (607, 28587), (621, 28614), (626, 28626), (627, 28629), (635, 28644), (707, 28779), (729, 28824), (784, 28977), (803, 29037), (821, 29085), (828, 29100), (836, 29124), (845, 29154), (853, 29181), (855, 29190), (869, 29220), (879, 29244), (932, 29364), (977, 29463), (1007, 29517), (1013, 29550), (1014, 29553), (1018, 29565), (1022, 29568), (1024, 29574), (1036, 29601), (1066, 29685), (1073, 29697), (1102, 29760),

Gene: Hedgerow_57 Start: 52616, Stop: 50787, Start Num: 190
Candidate Starts for Hedgerow_57:
(Start: 190 @52616 has 336 MA's), (Start: 232 @52589 has 2 MA's), (Start: 255 @52559 has 8 MA's), (261, 52547), (Start: 276 @52520 has 2 MA's), (278, 52517), (284, 52508), (307, 52490), (362, 52394), (390, 52343), (399, 52319), (467, 52157), (482, 52133), (487, 52121), (552, 52064), (569, 52028), (573, 52016), (583, 51992), (630, 51908), (648, 51878), (649, 51875), (664, 51845), (727, 51701), (755, 51635), (771, 51596), (775, 51584), (780, 51563), (787, 51545), (804, 51488), (831, 51431), (840, 51404), (848, 51374), (851, 51365), (875, 51299), (897, 51272), (900, 51263), (906, 51245),

(919, 51221), (939, 51167), (946, 51155), (953, 51134), (992, 51065), (1013, 51005), (1022, 50987), (1036, 50954), (1040, 50942), (1042, 50927), (1043, 50924), (1047, 50912), (1059, 50888), (1060, 50885), (1082, 50837), (1083, 50834), (1093, 50813), (1100, 50792),

Gene: Heffalump_43 Start: 31940, Stop: 30153, Start Num: 228
Candidate Starts for Heffalump_43:
(42, 32318), (97, 32129), (112, 32090), (Start: 228 @31940 has 960 MA's), (360, 31736), (362, 31733), (366, 31727), (375, 31712), (384, 31697), (399, 31664), (400, 31661), (410, 31634), (424, 31607), (435, 31586), (490, 31454), (570, 31361), (583, 31325), (590, 31313), (595, 31304), (607, 31289), (643, 31223), (686, 31142), (707, 31094), (709, 31088), (742, 31025), (803, 30869), (823, 30818), (835, 30785), (836, 30782), (855, 30716), (871, 30677), (895, 30656), (924, 30581), (929, 30569), (982, 30455), (992, 30437), (1007, 30410), (1009, 30401), (1013, 30377), (1042, 30299), (1066, 30242), (1073, 30230), (1079, 30221),

Gene: Hekos_59 Start: 53602, Stop: 51743, Start Num: 190
Candidate Starts for Hekos_59:
(Start: 173 @53626 has 3 MA's), (Start: 190 @53602 has 336 MA's), (Start: 222 @53578 has 3 MA's), (Start: 232 @53572 has 2 MA's), (261, 53530), (274, 53509), (336, 53395), (339, 53389), (355, 53359), (390, 53299), (398, 53278), (416, 53224), (429, 53212), (436, 53194), (440, 53182), (487, 53077), (552, 53020), (569, 52984), (573, 52972), (585, 52945), (611, 52900), (643, 52843), (648, 52834), (649, 52831), (796, 52471), (804, 52438), (812, 52417), (848, 52324), (851, 52315), (877, 52252), (900, 52216), (901, 52213), (906, 52198), (939, 52120), (946, 52108), (953, 52087), (976, 52048), (1013, 51958), (1022, 51940), (1024, 51934), (1032, 51919), (1040, 51895), (1042, 51880), (1043, 51877), (1047, 51865), (1059, 51841), (1082, 51793), (1093, 51769),

Gene: HelDan_45 Start: 31435, Stop: 29597, Start Num: 228
Candidate Starts for HelDan_45:
(171, 31507), (Start: 228 @31435 has 960 MA's), (263, 31384), (360, 31231), (396, 31171), (399, 31159), (424, 31102), (430, 31093), (435, 31081), (480, 30973), (490, 30949), (570, 30853), (592, 30805), (626, 30745), (663, 30682), (696, 30613), (707, 30592), (742, 30523), (746, 30517), (767, 30478), (803, 30355), (836, 30268), (847, 30232), (855, 30202), (869, 30172), (901, 30091), (919, 30052), (929, 30028), (935, 30010), (992, 29881), (1013, 29821), (1066, 29686), (1073, 29674), (1079, 29665),

Gene: Held_60 Start: 54034, Stop: 52175, Start Num: 190
Candidate Starts for Held_60:
(Start: 173 @54058 has 3 MA's), (Start: 190 @54034 has 336 MA's), (Start: 222 @54010 has 3 MA's), (Start: 232 @54004 has 2 MA's), (261, 53962), (274, 53941), (336, 53827), (339, 53821), (355, 53791), (390, 53731), (398, 53710), (416, 53656), (429, 53644), (436, 53626), (440, 53614), (487, 53509), (552, 53452), (569, 53416), (573, 53404), (585, 53377), (611, 53332), (643, 53275), (648, 53266), (649, 53263), (796, 52903), (804, 52870), (812, 52849), (848, 52756), (851, 52747), (877, 52684), (900, 52648), (901, 52645), (906, 52630), (939, 52552), (946, 52540), (953, 52519), (976, 52480), (1013, 52390), (1022, 52372), (1024, 52366), (1032, 52351), (1040, 52327), (1042, 52312), (1043, 52309), (1047, 52297), (1059, 52273), (1082, 52225), (1093, 52201),

Gene: Heliosoles_47 Start: 31756, Stop: 29942, Start Num: 228
Candidate Starts for Heliosoles_47:
(Start: 228 @31756 has 960 MA's), (257, 31717), (263, 31705), (360, 31552), (369, 31537), (399, 31480), (424, 31423), (430, 31414), (448, 31372), (465, 31321), (490, 31270), (570, 31177), (590, 31129), (607, 31105), (626, 31066), (643, 31039), (659, 31009), (703, 30916), (709, 30904), (732, 30856), (742, 30841), (803, 30685), (823, 30634), (835, 30601), (836, 30598), (855, 30532), (871, 30493), (901, 30421), (919, 30382), (929, 30358), (935, 30340), (949, 30307), (992, 30226), (1013, 30166), (1022, 30148), (1042, 30088), (1045, 30079), (1066, 30031), (1073, 30019), (1079, 30010),

Gene: Helmet_47 Start: 29791, Stop: 27950, Start Num: 228
Candidate Starts for Helmet_47:
(Start: 228 @29791 has 960 MA's), (360, 29587), (399, 29512), (400, 29509), (410, 29482), (415, 29467), (424, 29455), (448, 29404), (485, 29314), (490, 29302), (570, 29209), (585, 29170), (595, 29152), (607, 29137), (643, 29071), (660, 29038), (663, 29035), (710, 28933), (742, 28873), (778, 28789), (803, 28708), (835, 28624), (836, 28621), (840, 28612), (847, 28585), (855, 28555), (895, 28495), (906, 28456), (1009, 28240), (1010, 28237), (1013, 28216), (1066, 28081), (1073, 28069), (1079, 28060), (1082, 28057), (1115, 27964),

Gene: Hendrix_88 Start: 57216, Stop: 59255, Start Num: 194
Candidate Starts for Hendrix_88:
(Start: 194 @57216 has 4 MA's), (235, 57273), (272, 57330), (286, 57357), (311, 57408), (372, 57528), (391, 57564), (401, 57594), (472, 57762), (552, 57876), (569, 57915), (592, 57972), (597, 57981), (607, 57999), (661, 58107), (671, 58122), (674, 58128), (689, 58161), (705, 58194), (722, 58239), (756, 58311), (789, 58416), (790, 58419), (829, 58488), (847, 58545), (855, 58575), (908, 58710), (933, 58779), (949, 58818), (974, 58869), (984, 58890), (1007, 58956), (1010, 58968), (1012, 58989), (1013, 58992), (1015, 58998), (1021, 59016), (1032, 59043), (1040, 59070), (1043, 59088), (1063, 59142), (1076, 59172), (1096, 59214), (1108, 59250),

Gene: HenryJackson_60 Start: 54560, Stop: 52701, Start Num: 190
Candidate Starts for HenryJackson_60:
(Start: 173 @54584 has 3 MA's), (Start: 190 @54560 has 336 MA's), (Start: 222 @54536 has 3 MA's), (Start: 232 @54530 has 2 MA's), (261, 54488), (274, 54467), (336, 54353), (339, 54347), (355, 54317), (390, 54257), (398, 54236), (416, 54182), (429, 54170), (436, 54152), (440, 54140), (487, 54035), (552, 53978), (569, 53942), (573, 53930), (585, 53903), (601, 53876), (611, 53858), (622, 53840), (643, 53801), (648, 53792), (649, 53789), (761, 53531), (796, 53429), (804, 53396), (812, 53375), (848, 53282), (851, 53273), (877, 53210), (900, 53174), (901, 53171), (906, 53156), (939, 53078), (946, 53066), (953, 53045), (976, 53006), (1013, 52916), (1022, 52898), (1024, 52892), (1032, 52877), (1040, 52853), (1042, 52838), (1043, 52835), (1047, 52823), (1059, 52799), (1066, 52778), (1082, 52751), (1093, 52727),

Gene: Herbertwm_42 Start: 30692, Stop: 28857, Start Num: 228
Candidate Starts for Herbertwm_42:
(Start: 228 @30692 has 960 MA's), (360, 30488), (362, 30485), (400, 30410), (410, 30383), (415, 30368), (424, 30356), (435, 30335), (490, 30203), (570, 30110), (595, 30053), (691, 29882), (778, 29693), (803, 29612), (823, 29561), (836, 29525), (847, 29489), (855, 29459), (871, 29420), (895, 29399), (900, 29378), (949, 29261), (958, 29234), (982, 29198), (992, 29180), (1009, 29144), (1010, 29141), (1013, 29120), (1042, 29042), (1066, 28985), (1079, 28964), (1117, 28865),

Gene: Hercules11_48 Start: 31861, Stop: 30047, Start Num: 228
Candidate Starts for Hercules11_48:
(Start: 228 @31861 has 960 MA's), (257, 31822), (263, 31810), (360, 31657), (369, 31642), (399, 31585), (424, 31528), (430, 31519), (448, 31477), (465, 31426), (490, 31375), (570, 31282), (590, 31234), (595, 31225), (607, 31210), (626, 31171), (643, 31144), (659, 31114), (703, 31021), (732, 30961), (742, 30946), (803, 30790), (836, 30703), (855, 30637), (871, 30598), (901, 30526), (919, 30487), (929, 30463), (935, 30445), (949, 30412), (958, 30385), (992, 30331), (1013, 30271), (1042, 30193), (1066, 30136), (1073, 30124), (1079, 30115),

Gene: HerculesXL_37 Start: 27313, Stop: 25415, Start Num: 297
Candidate Starts for HerculesXL_37:
(18, 28051), (19, 28045), (54, 27790), (268, 27364), (Start: 297 @27313 has 21 MA's), (332, 27250), (353, 27199), (378, 27160), (402, 27103), (431, 27046), (435, 27037), (439, 27025), (442, 27019),

(460, 26968), (474, 26929), (533, 26866), (552, 26821), (582, 26746), (586, 26737), (590, 26725), (607, 26695), (618, 26674), (623, 26662), (636, 26638), (708, 26488), (800, 26227), (840, 26125), (845, 26104), (855, 26068), (870, 26032), (873, 26026), (908, 25939), (917, 25912), (974, 25780), (992, 25741), (997, 25720), (1010, 25681), (1013, 25657), (1015, 25651), (1025, 25624), (1068, 25513),

Gene: Hermia_46 Start: 35549, Stop: 33723, Start Num: 228
Candidate Starts for Hermia_46:
(Start: 228 @35549 has 960 MA's), (366, 35336), (373, 35321), (410, 35243), (418, 35222), (424, 35216), (430, 35207), (479, 35090), (490, 35063), (570, 34970), (576, 34955), (621, 34871), (622, 34868), (659, 34802), (690, 34742), (709, 34697), (729, 34658), (803, 34478), (821, 34430), (836, 34391), (855, 34325), (871, 34286), (895, 34265), (900, 34244), (906, 34226), (935, 34160), (1007, 34019), (1009, 34010), (1010, 34007), (1018, 33971), (1032, 33947), (1035, 33938), (1039, 33926), (1066, 33851), (1079, 33830),

Gene: HermioneGrange_44 Start: 34683, Stop: 32854, Start Num: 228
Candidate Starts for HermioneGrange_44:
(Start: 228 @34683 has 960 MA's), (366, 34470), (373, 34455), (399, 34407), (410, 34377), (418, 34356), (424, 34350), (430, 34341), (479, 34224), (490, 34197), (570, 34104), (576, 34089), (621, 34005), (622, 34002), (659, 33936), (680, 33906), (690, 33876), (709, 33831), (729, 33792), (803, 33612), (821, 33564), (840, 33516), (851, 33477), (855, 33459), (871, 33420), (895, 33399), (900, 33378), (955, 33240), (1036, 33069), (1041, 33045), (1057, 33012), (1062, 32997), (1066, 32985), (1079, 32964), (1083, 32958), (1102, 32910), (1109, 32895),

Gene: Hertubise_60 Start: 54326, Stop: 52467, Start Num: 190
Candidate Starts for Hertubise_60:
(Start: 173 @54350 has 3 MA's), (Start: 190 @54326 has 336 MA's), (Start: 222 @54302 has 3 MA's), (Start: 232 @54296 has 2 MA's), (261, 54254), (274, 54233), (336, 54119), (339, 54113), (355, 54083), (390, 54023), (398, 54002), (416, 53948), (429, 53936), (436, 53918), (440, 53906), (487, 53801), (552, 53744), (569, 53708), (573, 53696), (585, 53669), (601, 53642), (611, 53624), (622, 53606), (643, 53567), (648, 53558), (649, 53555), (761, 53297), (796, 53195), (804, 53162), (812, 53141), (848, 53048), (851, 53039), (877, 52976), (900, 52940), (901, 52937), (906, 52922), (939, 52844), (946, 52832), (953, 52811), (976, 52772), (1013, 52682), (1022, 52664), (1024, 52658), (1032, 52643), (1040, 52619), (1042, 52604), (1043, 52601), (1047, 52589), (1059, 52565), (1082, 52517), (1093, 52493),

Gene: Hetaeria_60 Start: 54265, Stop: 52406, Start Num: 190
Candidate Starts for Hetaeria_60:
(Start: 173 @54289 has 3 MA's), (Start: 190 @54265 has 336 MA's), (Start: 222 @54241 has 3 MA's), (Start: 232 @54235 has 2 MA's), (261, 54193), (274, 54172), (336, 54058), (339, 54052), (355, 54022), (390, 53962), (398, 53941), (416, 53887), (429, 53875), (436, 53857), (440, 53845), (487, 53740), (552, 53683), (569, 53647), (573, 53635), (583, 53611), (590, 53599), (601, 53581), (611, 53563), (622, 53545), (643, 53506), (648, 53497), (649, 53494), (651, 53491), (796, 53134), (804, 53101), (812, 53080), (848, 52987), (851, 52978), (877, 52915), (900, 52879), (901, 52876), (906, 52861), (939, 52783), (946, 52771), (953, 52750), (976, 52711), (1013, 52621), (1022, 52603), (1024, 52597), (1032, 52582), (1040, 52558), (1042, 52543), (1043, 52540), (1047, 52528), (1059, 52504), (1082, 52456), (1093, 52432),

Gene: Hexamo_45 Start: 29412, Stop: 27571, Start Num: 228
Candidate Starts for Hexamo_45:
(Start: 200 @29442 has 1 MA's), (Start: 228 @29412 has 960 MA's), (360, 29208), (399, 29133), (400, 29130), (410, 29103), (415, 29088), (424, 29076), (448, 29025), (485, 28935), (490, 28923), (570, 28830), (585, 28791), (595, 28773), (607, 28758), (643, 28692), (660, 28659), (663, 28656), (710,

28554), (742, 28494), (778, 28410), (803, 28329), (835, 28245), (836, 28242), (840, 28233), (847, 28206), (855, 28176), (895, 28116), (906, 28077), (1009, 27861), (1010, 27858), (1013, 27837), (1066, 27702), (1073, 27690), (1079, 27681), (1082, 27678), (1115, 27585),

Gene: Heylee_57 Start: 36664, Stop: 34496, Start Num: 213
Candidate Starts for Heylee_57:
(212, 36667), (Start: 213 @36664 has 13 MA's), (251, 36610), (299, 36526), (382, 36373), (387, 36364), (404, 36319), (429, 36241), (432, 36232), (438, 36217), (446, 36202), (447, 36199), (467, 36142), (506, 36049), (520, 36007), (601, 35812), (607, 35800), (609, 35794), (622, 35770), (631, 35749), (646, 35728), (653, 35713), (656, 35707), (689, 35644), (709, 35593), (737, 35506), (763, 35446), (778, 35398), (813, 35296), (815, 35290), (824, 35263), (825, 35260), (835, 35239), (848, 35197), (850, 35191), (856, 35167), (876, 35125), (877, 35122), (888, 35095), (896, 35062), (898, 35050), (914, 35014), (924, 34990), (926, 34984), (929, 34978), (950, 34924), (976, 34876), (977, 34873), (1002, 34813), (1009, 34789), (1015, 34759), (1037, 34705), (1040, 34696), (1054, 34636), (1059, 34624), (1075, 34585),

Gene: HighStump_62 Start: 54537, Stop: 52678, Start Num: 190
Candidate Starts for HighStump_62:
(Start: 173 @54561 has 3 MA's), (Start: 190 @54537 has 336 MA's), (Start: 222 @54513 has 3 MA's), (Start: 232 @54507 has 2 MA's), (261, 54465), (274, 54444), (336, 54330), (339, 54324), (355, 54294), (390, 54234), (398, 54213), (416, 54159), (429, 54147), (436, 54129), (487, 54012), (552, 53955), (569, 53919), (573, 53907), (585, 53880), (601, 53853), (611, 53835), (622, 53817), (643, 53778), (648, 53769), (649, 53766), (796, 53406), (804, 53373), (812, 53352), (848, 53259), (851, 53250), (877, 53187), (901, 53148), (906, 53133), (939, 53055), (946, 53043), (953, 53022), (976, 52983), (1010, 52914), (1013, 52893), (1022, 52875), (1024, 52869), (1032, 52854), (1040, 52830), (1042, 52815), (1043, 52812), (1047, 52800), (1059, 52776), (1082, 52728), (1093, 52704),

Gene: HippoHollow_44 Start: 32838, Stop: 31045, Start Num: 228
Candidate Starts for HippoHollow_44:
(Start: 228 @32838 has 960 MA's), (362, 32631), (366, 32625), (375, 32610), (384, 32595), (400, 32559), (410, 32532), (424, 32505), (435, 32484), (490, 32352), (570, 32259), (590, 32211), (595, 32202), (607, 32187), (643, 32121), (686, 32040), (707, 31992), (709, 31986), (729, 31947), (803, 31767), (815, 31737), (823, 31710), (835, 31677), (836, 31674), (855, 31608), (871, 31569), (895, 31548), (897, 31536), (900, 31527), (904, 31515), (990, 31335), (992, 31329), (1009, 31293), (1013, 31269), (1042, 31191), (1066, 31134), (1073, 31122), (1079, 31113),

Gene: Hiro_36 Start: 28373, Stop: 26589, Start Num: 228
Candidate Starts for Hiro_36:
(Start: 228 @28373 has 960 MA's), (379, 28139), (396, 28109), (398, 28100), (399, 28097), (415, 28052), (424, 28040), (430, 28031), (448, 27989), (490, 27887), (498, 27866), (570, 27794), (587, 27749), (590, 27746), (617, 27704), (619, 27698), (626, 27683), (643, 27656), (696, 27551), (709, 27524), (729, 27485), (803, 27305), (821, 27257), (855, 27152), (856, 27149), (895, 27092), (900, 27071), (922, 27023), (951, 26948), (990, 26879), (1009, 26837), (1013, 26813), (1042, 26735), (1066, 26678), (1073, 26666), (1100, 26609),

Gene: HitchHiker_12 Start: 8829, Stop: 6580, Start Num: 161
Candidate Starts for HitchHiker_12:
(Start: 161 @8829 has 21 MA's), (291, 8652), (316, 8607), (388, 8475), (395, 8460), (442, 8328), (451, 8307), (508, 8160), (511, 8139), (517, 8109), (556, 7983), (571, 7944), (645, 7839), (692, 7737), (714, 7686), (723, 7662), (724, 7659), (753, 7578), (778, 7503), (841, 7308), (844, 7296), (857, 7248), (862, 7215), (877, 7170), (879, 7161), (910, 7071), (923, 7047), (970, 6936), (1019, 6798), (1035, 6753), (1062, 6678), (1064, 6675), (1066, 6666), (1073, 6654), (1090, 6615),

Gene: Hocus_60 Start: 54021, Stop: 52162, Start Num: 190
Candidate Starts for Hocus_60:
(Start: 173 @54045 has 3 MA's), (Start: 190 @54021 has 336 MA's), (Start: 222 @53997 has 3 MA's), (Start: 232 @53991 has 2 MA's), (261, 53949), (274, 53928), (336, 53814), (339, 53808), (355, 53778), (390, 53718), (398, 53697), (416, 53643), (429, 53631), (436, 53613), (440, 53601), (487, 53496), (552, 53439), (569, 53403), (573, 53391), (585, 53364), (611, 53319), (643, 53262), (648, 53253), (649, 53250), (796, 52890), (804, 52857), (812, 52836), (848, 52743), (851, 52734), (877, 52671), (900, 52635), (901, 52632), (906, 52617), (939, 52539), (946, 52527), (953, 52506), (976, 52467), (1013, 52377), (1022, 52359), (1024, 52353), (1032, 52338), (1040, 52314), (1042, 52299), (1043, 52296), (1047, 52284), (1059, 52260), (1082, 52212), (1093, 52188),

Gene: HogWash_62 Start: 55099, Stop: 53240, Start Num: 190
Candidate Starts for HogWash_62:
(Start: 173 @55123 has 3 MA's), (Start: 190 @55099 has 336 MA's), (Start: 222 @55075 has 3 MA's), (Start: 232 @55069 has 2 MA's), (261, 55027), (274, 55006), (336, 54892), (339, 54886), (355, 54856), (390, 54796), (398, 54775), (416, 54721), (429, 54709), (436, 54691), (440, 54679), (487, 54574), (552, 54517), (569, 54481), (573, 54469), (583, 54445), (590, 54433), (601, 54415), (611, 54397), (622, 54379), (643, 54340), (648, 54331), (649, 54328), (651, 54325), (796, 53968), (804, 53935), (812, 53914), (848, 53821), (851, 53812), (877, 53749), (900, 53713), (901, 53710), (906, 53695), (939, 53617), (946, 53605), (953, 53584), (976, 53545), (1013, 53455), (1022, 53437), (1024, 53431), (1032, 53416), (1040, 53392), (1042, 53377), (1043, 53374), (1047, 53362), (1059, 53338), (1082, 53290), (1093, 53266),

Gene: Holeinone_57 Start: 52455, Stop: 50626, Start Num: 190
Candidate Starts for Holeinone_57:
(Start: 190 @52455 has 336 MA's), (Start: 232 @52428 has 2 MA's), (Start: 255 @52398 has 8 MA's), (261, 52386), (Start: 276 @52359 has 2 MA's), (278, 52356), (284, 52347), (307, 52329), (362, 52233), (390, 52182), (399, 52158), (467, 51996), (476, 51981), (482, 51972), (487, 51960), (552, 51903), (569, 51867), (573, 51855), (583, 51831), (630, 51747), (648, 51717), (649, 51714), (664, 51684), (727, 51540), (755, 51474), (775, 51423), (780, 51402), (787, 51384), (804, 51327), (840, 51243), (848, 51213), (851, 51204), (875, 51138), (897, 51111), (900, 51102), (906, 51084), (919, 51060), (939, 51006), (946, 50994), (953, 50973), (992, 50904), (1013, 50844), (1022, 50826), (1036, 50793), (1040, 50781), (1042, 50766), (1043, 50763), (1047, 50751), (1059, 50727), (1060, 50724), (1082, 50676), (1083, 50673), (1093, 50652), (1100, 50631),

Gene: Holex_44 Start: 31507, Stop: 29714, Start Num: 228
Candidate Starts for Holex_44:
(Start: 228 @31507 has 960 MA's), (235, 31498), (263, 31456), (342, 31336), (343, 31333), (370, 31285), (400, 31225), (411, 31195), (415, 31183), (424, 31171), (490, 31018), (570, 30925), (643, 30787), (659, 30757), (733, 30598), (742, 30586), (764, 30559), (798, 30451), (803, 30430), (851, 30295), (855, 30277), (900, 30196), (919, 30154), (949, 30079), (990, 30004), (1009, 29962), (1042, 29860), (1066, 29803), (1073, 29791), (1079, 29782),

Gene: Holli_44 Start: 31360, Stop: 29534, Start Num: 228
Candidate Starts for Holli_44:
(Start: 228 @31360 has 960 MA's), (Start: 241 @31339 has 3 MA's), (263, 31309), (278, 31279), (384, 31117), (394, 31099), (424, 31027), (430, 31018), (480, 30898), (490, 30874), (570, 30781), (592, 30733), (607, 30712), (626, 30673), (696, 30541), (707, 30520), (729, 30475), (733, 30463), (798, 30310), (803, 30289), (847, 30166), (855, 30136), (871, 30097), (900, 30031), (901, 30028), (906, 30013), (919, 29989), (929, 29965), (1013, 29758), (1066, 29623), (1073, 29611), (1079, 29602),

Gene: Homines_37 Start: 30760, Stop: 28934, Start Num: 228
Candidate Starts for Homines_37:

(Start: 228 @30760 has 960 MA's), (366, 30547), (373, 30532), (399, 30484), (410, 30454), (418, 30433), (424, 30427), (430, 30418), (479, 30301), (490, 30274), (570, 30181), (576, 30166), (590, 30133), (621, 30082), (622, 30079), (659, 30013), (680, 29983), (690, 29953), (709, 29908), (729, 29869), (803, 29689), (815, 29659), (821, 29641), (823, 29638), (836, 29602), (855, 29536), (900, 29455), (901, 29452), (935, 29371), (1009, 29221), (1010, 29218), (1018, 29182), (1032, 29158), (1035, 29149), (1039, 29137), (1066, 29062), (1079, 29041),

Gene: Honk_44 Start: 28246, Stop: 30111, Start Num: 227
Candidate Starts for Honk_44:
(Start: 227 @28246 has 33 MA's), (261, 28294), (303, 28354), (360, 28450), (418, 28567), (572, 28840), (590, 28882), (626, 28948), (690, 29062), (707, 29101), (736, 29164), (776, 29269), (778, 29278), (803, 29359), (823, 29410), (845, 29476), (847, 29482), (856, 29515), (926, 29671), (936, 29698), (977, 29785), (1032, 29911), (1035, 29920), (1040, 29935), (1066, 30007), (1075, 30022), (1084, 30037),

Gene: Hookmount_44 Start: 31598, Stop: 29760, Start Num: 228
Candidate Starts for Hookmount_44:
(Start: 228 @31598 has 960 MA's), (263, 31547), (360, 31394), (399, 31322), (410, 31292), (424, 31265), (430, 31256), (490, 31112), (570, 31016), (592, 30968), (626, 30908), (681, 30821), (696, 30776), (707, 30755), (744, 30683), (767, 30641), (778, 30599), (803, 30518), (821, 30470), (836, 30431), (847, 30395), (855, 30365), (869, 30335), (901, 30254), (919, 30215), (929, 30191), (935, 30173), (936, 30170), (992, 30044), (1013, 29984), (1045, 29897), (1066, 29849), (1073, 29837), (1079, 29828),

Gene: Hoot_45 Start: 29605, Stop: 27764, Start Num: 228
Candidate Starts for Hoot_45:
(Start: 228 @29605 has 960 MA's), (360, 29401), (399, 29326), (400, 29323), (410, 29296), (415, 29281), (424, 29269), (448, 29218), (485, 29128), (490, 29116), (570, 29023), (585, 28984), (595, 28966), (607, 28951), (643, 28885), (660, 28852), (663, 28849), (710, 28747), (742, 28687), (778, 28603), (803, 28522), (835, 28438), (836, 28435), (840, 28426), (847, 28399), (855, 28369), (895, 28309), (906, 28270), (1009, 28054), (1010, 28051), (1013, 28030), (1066, 27895), (1073, 27883), (1079, 27874), (1082, 27871), (1115, 27778),

Gene: Hope4ever_46 Start: 35139, Stop: 33313, Start Num: 228
Candidate Starts for Hope4ever_46:
(Start: 228 @35139 has 960 MA's), (366, 34926), (399, 34863), (410, 34833), (418, 34812), (424, 34806), (430, 34797), (479, 34680), (490, 34653), (570, 34560), (576, 34545), (621, 34461), (622, 34458), (659, 34392), (680, 34362), (690, 34332), (709, 34287), (729, 34248), (803, 34068), (821, 34020), (836, 33981), (855, 33915), (871, 33876), (895, 33855), (900, 33834), (906, 33816), (935, 33750), (1009, 33600), (1010, 33597), (1018, 33561), (1032, 33537), (1035, 33528), (1039, 33516), (1066, 33441), (1079, 33420),

Gene: Horchata_59 Start: 54056, Stop: 52197, Start Num: 190
Candidate Starts for Horchata_59:
(Start: 173 @54080 has 3 MA's), (Start: 190 @54056 has 336 MA's), (Start: 222 @54032 has 3 MA's), (Start: 232 @54026 has 2 MA's), (261, 53984), (274, 53963), (336, 53849), (339, 53843), (355, 53813), (390, 53753), (398, 53732), (416, 53678), (429, 53666), (436, 53648), (440, 53636), (487, 53531), (552, 53474), (569, 53438), (573, 53426), (585, 53399), (590, 53390), (611, 53354), (643, 53297), (648, 53288), (649, 53285), (651, 53282), (796, 52925), (804, 52892), (812, 52871), (848, 52778), (851, 52769), (877, 52706), (900, 52670), (901, 52667), (906, 52652), (939, 52574), (946, 52562), (953, 52541), (976, 52502), (1013, 52412), (1022, 52394), (1024, 52388), (1032, 52373), (1040, 52349), (1042, 52334), (1043, 52331), (1047, 52319), (1059, 52295), (1082, 52247), (1093, 52223),

Gene: HortumSL17_45 Start: 31483, Stop: 29690, Start Num: 228
Candidate Starts for HortumSL17_45:
(Start: 228 @31483 has 960 MA's), (235, 31474), (263, 31432), (342, 31312), (343, 31309), (370, 31261), (400, 31201), (411, 31171), (415, 31159), (424, 31147), (490, 30994), (570, 30901), (643, 30763), (659, 30733), (733, 30574), (742, 30562), (764, 30535), (798, 30427), (803, 30406), (851, 30271), (855, 30253), (900, 30172), (919, 30130), (949, 30055), (990, 29980), (1009, 29938), (1042, 29836), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: Hosp_050 Start: 50681, Stop: 48840, Start Num: 184
Candidate Starts for Hosp_050:
(62, 50945), (68, 50930), (Start: 184 @50681 has 3 MA's), (249, 50624), (261, 50609), (362, 50435), (390, 50384), (391, 50381), (399, 50360), (416, 50309), (419, 50303), (435, 50285), (452, 50243), (457, 50240), (467, 50210), (552, 50117), (569, 50081), (573, 50069), (633, 49955), (648, 49931), (649, 49928), (750, 49697), (776, 49628), (780, 49610), (787, 49592), (804, 49535), (846, 49427), (848, 49421), (851, 49412), (875, 49349), (900, 49313), (901, 49310), (906, 49295), (939, 49217), (946, 49205), (953, 49184), (954, 49178), (976, 49145), (992, 49115), (1002, 49100), (1009, 49079), (1013, 49055), (1024, 49031), (1040, 48992), (1041, 48980), (1042, 48977), (1043, 48974), (1047, 48962), (1059, 48938), (1093, 48866), (1100, 48845),

Gene: Houdini22_45 Start: 31574, Stop: 29748, Start Num: 228
Candidate Starts for Houdini22_45:
(Start: 228 @31574 has 960 MA's), (Start: 241 @31553 has 3 MA's), (263, 31523), (278, 31493), (384, 31331), (394, 31313), (424, 31241), (430, 31232), (480, 31112), (490, 31088), (570, 30995), (592, 30947), (607, 30926), (626, 30887), (696, 30755), (707, 30734), (729, 30689), (733, 30677), (798, 30524), (803, 30503), (847, 30380), (855, 30350), (871, 30311), (900, 30245), (901, 30242), (906, 30227), (919, 30203), (929, 30179), (1013, 29972), (1066, 29837), (1073, 29825), (1079, 29816),

Gene: HuhtaEnerson15_39 Start: 30586, Stop: 28721, Start Num: 228
Candidate Starts for HuhtaEnerson15_39:
(Start: 228 @30586 has 960 MA's), (263, 30535), (304, 30475), (343, 30412), (360, 30382), (362, 30379), (396, 30322), (399, 30310), (410, 30280), (424, 30253), (490, 30100), (570, 30004), (590, 29956), (637, 29872), (643, 29866), (685, 29794), (696, 29761), (703, 29746), (709, 29734), (761, 29635), (803, 29500), (815, 29470), (821, 29452), (830, 29434), (836, 29413), (840, 29404), (855, 29347), (871, 29308), (900, 29266), (906, 29248), (929, 29200), (949, 29149), (977, 29095), (982, 29086), (992, 29068), (1013, 29008), (1022, 28990), (1058, 28897), (1066, 28873), (1073, 28861), (1115, 28756),

Gene: HungryHenry_38 Start: 28624, Stop: 26759, Start Num: 301
Candidate Starts for HungryHenry_38:
(Start: 241 @28711 has 3 MA's), (Start: 243 @28708 has 1 MA's), (Start: 301 @28624 has 153 MA's), (Start: 305 @28615 has 5 MA's), (353, 28510), (360, 28501), (378, 28471), (380, 28468), (435, 28348), (439, 28336), (442, 28330), (483, 28225), (494, 28198), (582, 28057), (585, 28051), (586, 28048), (590, 28036), (606, 28009), (607, 28006), (614, 27991), (618, 27985), (621, 27979), (638, 27946), (701, 27817), (726, 27757), (847, 27442), (850, 27433), (851, 27430), (855, 27412), (873, 27370), (877, 27364), (879, 27355), (888, 27340), (908, 27283), (974, 27124), (989, 27094), (992, 27085), (1010, 27025), (1013, 27001), (1028, 26962), (1040, 26929), (1044, 26917), (1068, 26857),

Gene: Hutc2_44 Start: 30330, Stop: 28543, Start Num: 228
Candidate Starts for Hutc2_44:
(Start: 228 @30330 has 960 MA's), (360, 30126), (399, 30054), (410, 30024), (424, 29997), (572, 29745), (595, 29694), (643, 29613), (668, 29568), (670, 29565), (707, 29484), (733, 29427), (766, 29385), (778, 29340), (803, 29259), (823, 29208), (836, 29172), (855, 29106), (895, 29046), (897, 29034), (938, 28932), (949, 28908), (954, 28890), (992, 28827), (1007, 28800), (1009, 28791), (1013,

28767), (1066, 28632), (1073, 28620), (1079, 28611),

Gene: Huxley_44 Start: 31631, Stop: 29805, Start Num: 228
Candidate Starts for Huxley_44:
(Start: 228 @31631 has 960 MA's), (Start: 241 @31610 has 3 MA's), (263, 31580), (278, 31550), (384, 31388), (394, 31370), (424, 31298), (430, 31289), (480, 31169), (490, 31145), (570, 31052), (592, 31004), (607, 30983), (626, 30944), (696, 30812), (707, 30791), (729, 30746), (733, 30734), (798, 30581), (803, 30560), (847, 30437), (855, 30407), (871, 30368), (900, 30302), (901, 30299), (906, 30284), (919, 30260), (929, 30236), (1013, 30029), (1066, 29894), (1073, 29882), (1079, 29873),

Gene: Hydro_53 Start: 54045, Stop: 52222, Start Num: 182
Candidate Starts for Hydro_53:
(Start: 163 @54063 has 29 MA's), (Start: 182 @54045 has 33 MA's), (Start: 232 @54021 has 2 MA's), (249, 53994), (261, 53979), (274, 53958), (324, 53871), (386, 53766), (402, 53724), (436, 53658), (449, 53628), (452, 53619), (457, 53616), (458, 53613), (552, 53493), (560, 53475), (569, 53457), (573, 53445), (580, 53430), (585, 53418), (648, 53307), (649, 53304), (664, 53274), (685, 53238), (775, 53013), (776, 53010), (787, 52974), (796, 52950), (804, 52917), (846, 52809), (848, 52803), (851, 52794), (900, 52695), (901, 52692), (906, 52677), (939, 52599), (946, 52587), (953, 52566), (955, 52557), (976, 52527), (1007, 52470), (1013, 52437), (1022, 52419), (1024, 52413), (1040, 52374), (1043, 52356), (1047, 52344), (1059, 52320), (1078, 52278), (1082, 52272), (1093, 52248),

Gene: IAmGroot_48 Start: 31892, Stop: 33757, Start Num: 227
Candidate Starts for IAmGroot_48:
(Start: 227 @31892 has 33 MA's), (410, 32189), (452, 32279), (626, 32594), (686, 32699), (690, 32708), (707, 32747), (736, 32810), (803, 33005), (828, 33068), (845, 33122), (847, 33128), (856, 33161), (897, 33248), (926, 33317), (936, 33344), (1066, 33653),

Gene: ICleared_45 Start: 31599, Stop: 29773, Start Num: 228
Candidate Starts for ICleared_45:
(Start: 228 @31599 has 960 MA's), (Start: 241 @31578 has 3 MA's), (263, 31548), (278, 31518), (384, 31356), (394, 31338), (424, 31266), (430, 31257), (480, 31137), (490, 31113), (570, 31020), (592, 30972), (607, 30951), (626, 30912), (696, 30780), (707, 30759), (729, 30714), (733, 30702), (798, 30549), (803, 30528), (847, 30405), (855, 30375), (871, 30336), (900, 30270), (901, 30267), (919, 30228), (929, 30204), (1013, 29997), (1066, 29862), (1073, 29850), (1079, 29841),

Gene: ILeeKay_49 Start: 35713, Stop: 33884, Start Num: 228
Candidate Starts for ILeeKay_49:
(Start: 228 @35713 has 960 MA's), (366, 35500), (373, 35485), (410, 35407), (418, 35386), (424, 35380), (430, 35371), (479, 35254), (490, 35227), (570, 35134), (576, 35119), (590, 35086), (621, 35035), (622, 35032), (654, 34978), (659, 34966), (680, 34936), (690, 34906), (709, 34861), (729, 34822), (803, 34642), (821, 34594), (840, 34546), (851, 34507), (855, 34489), (871, 34450), (895, 34429), (900, 34408), (905, 34393), (955, 34270), (1036, 34099), (1041, 34075), (1062, 34027), (1066, 34015), (1079, 33994), (1083, 33988), (1102, 33940), (1109, 33925),

Gene: IUFootball_42 Start: 31379, Stop: 33223, Start Num: 228
Candidate Starts for IUFootball_42:
(Start: 135 @31253 has 1 MA's), (138, 31256), (Start: 228 @31379 has 960 MA's), (410, 31676), (572, 31952), (623, 32054), (633, 32075), (707, 32213), (736, 32276), (803, 32471), (806, 32477), (815, 32501), (836, 32558), (853, 32615), (855, 32624), (906, 32741), (929, 32789), (1006, 32948), (1009, 32960), (1038, 33041), (1066, 33119), (1090, 33164),

Gene: Ibantik_18 Start: 8692, Stop: 6680, Start Num: 228
Candidate Starts for Ibantik_18:

(Start: 228 @8692 has 960 MA's), (366, 8473), (384, 8443), (466, 8248), (473, 8236), (490, 8200), (498, 8179), (513, 8122), (570, 7954), (621, 7849), (626, 7837), (651, 7795), (761, 7585), (803, 7450), (843, 7336), (846, 7327), (855, 7294), (887, 7228), (929, 7105), (1007, 6946), (1036, 6862), (1038, 6856), (1040, 6850), (1043, 6832), (1058, 6802), (1066, 6778),

Gene: Icarian_45 Start: 30940, Stop: 32814, Start Num: 217
Candidate Starts for Icarian_45:
(Start: 217 @30940 has 68 MA's), (Start: 273 @31009 has 1 MA's), (Start: 285 @31030 has 1 MA's), (399, 31210), (430, 31276), (436, 31291), (448, 31318), (626, 31612), (741, 31846), (783, 31966), (784, 31969), (803, 32029), (806, 32035), (823, 32080), (830, 32095), (833, 32110), (845, 32146), (855, 32182), (898, 32275), (936, 32368), (973, 32446), (975, 32449), (1009, 32518), (1013, 32542), (1018, 32557), (1038, 32599), (1041, 32617), (1066, 32677), (1079, 32698),

Gene: Iceman_45 Start: 31856, Stop: 30030, Start Num: 228
Candidate Starts for Iceman_45:
(Start: 228 @31856 has 960 MA's), (Start: 241 @31835 has 3 MA's), (263, 31805), (278, 31775), (384, 31613), (394, 31595), (424, 31523), (430, 31514), (480, 31394), (490, 31370), (570, 31277), (592, 31229), (607, 31208), (626, 31169), (696, 31037), (707, 31016), (729, 30971), (733, 30959), (798, 30806), (803, 30785), (847, 30662), (855, 30632), (871, 30593), (900, 30527), (901, 30524), (906, 30509), (919, 30485), (929, 30461), (1013, 30254), (1066, 30119), (1073, 30107), (1079, 30098),

Gene: Ichabod_46 Start: 34837, Stop: 33011, Start Num: 228
Candidate Starts for Ichabod_46:
(Start: 228 @34837 has 960 MA's), (366, 34624), (399, 34561), (410, 34531), (418, 34510), (424, 34504), (430, 34495), (479, 34378), (490, 34351), (570, 34258), (576, 34243), (590, 34210), (621, 34159), (622, 34156), (659, 34090), (680, 34060), (690, 34030), (709, 33985), (729, 33946), (803, 33766), (821, 33718), (836, 33679), (855, 33613), (871, 33574), (895, 33553), (900, 33532), (906, 33514), (935, 33448), (1009, 33298), (1010, 33295), (1032, 33235), (1035, 33226), (1039, 33214), (1066, 33139), (1079, 33118),

Gene: Ichor_55 Start: 36879, Stop: 34711, Start Num: 213
Candidate Starts for Ichor_55:
(212, 36882), (Start: 213 @36879 has 13 MA's), (251, 36825), (299, 36741), (382, 36588), (387, 36579), (404, 36534), (429, 36456), (432, 36447), (438, 36432), (446, 36417), (447, 36414), (467, 36357), (506, 36264), (520, 36222), (601, 36027), (607, 36015), (609, 36009), (622, 35985), (631, 35964), (646, 35943), (653, 35928), (656, 35922), (689, 35859), (709, 35808), (737, 35721), (763, 35661), (778, 35613), (813, 35511), (815, 35505), (824, 35478), (825, 35475), (835, 35454), (848, 35412), (850, 35406), (856, 35382), (876, 35340), (877, 35337), (888, 35310), (896, 35277), (898, 35265), (914, 35229), (924, 35205), (926, 35199), (929, 35193), (950, 35139), (976, 35091), (977, 35088), (1002, 35028), (1009, 35004), (1015, 34974), (1037, 34920), (1054, 34851), (1059, 34839), (1075, 34800),

Gene: Idleandcovert_46 Start: 31555, Stop: 29717, Start Num: 228
Candidate Starts for Idleandcovert_46:
(Start: 228 @31555 has 960 MA's), (263, 31504), (307, 31438), (360, 31351), (396, 31291), (399, 31279), (424, 31222), (430, 31213), (480, 31093), (490, 31069), (570, 30973), (592, 30925), (626, 30865), (663, 30802), (696, 30733), (707, 30712), (744, 30640), (767, 30598), (778, 30556), (803, 30475), (821, 30427), (847, 30352), (855, 30322), (869, 30292), (901, 30211), (919, 30172), (929, 30148), (935, 30130), (992, 30001), (1013, 29941), (1066, 29806), (1073, 29794), (1079, 29785),

Gene: IgnatiusPatJac_44 Start: 34736, Stop: 32907, Start Num: 228
Candidate Starts for IgnatiusPatJac_44:

(Start: 228 @34736 has 960 MA's), (366, 34523), (399, 34460), (410, 34430), (418, 34409), (424, 34403), (430, 34394), (479, 34277), (490, 34250), (570, 34157), (576, 34142), (590, 34109), (621, 34058), (622, 34055), (659, 33989), (690, 33929), (709, 33884), (729, 33845), (803, 33665), (821, 33617), (840, 33569), (851, 33530), (855, 33512), (871, 33473), (895, 33452), (900, 33431), (905, 33416), (955, 33293), (1036, 33122), (1041, 33098), (1062, 33050), (1066, 33038), (1079, 33017), (1083, 33011), (1102, 32963), (1109, 32948),

Gene: Ilzat_38 Start: 28635, Stop: 26770, Start Num: 301
Candidate Starts for Ilzat_38:
(Start: 241 @28722 has 3 MA's), (Start: 243 @28719 has 1 MA's), (Start: 301 @28635 has 153 MA's), (Start: 305 @28626 has 5 MA's), (353, 28521), (360, 28512), (378, 28482), (380, 28479), (435, 28359), (439, 28347), (442, 28341), (483, 28236), (494, 28209), (582, 28068), (585, 28062), (586, 28059), (590, 28047), (606, 28020), (607, 28017), (614, 28002), (618, 27996), (621, 27990), (638, 27957), (701, 27828), (726, 27768), (847, 27453), (850, 27444), (851, 27441), (855, 27423), (873, 27381), (877, 27375), (879, 27366), (888, 27351), (908, 27294), (974, 27135), (989, 27105), (992, 27096), (1010, 27036), (1013, 27012), (1028, 26973), (1040, 26940), (1044, 26928), (1068, 26868),

Gene: Imbriano_44 Start: 29645, Stop: 27804, Start Num: 228
Candidate Starts for Imbriano_44:
(Start: 200 @29675 has 1 MA's), (Start: 228 @29645 has 960 MA's), (360, 29441), (399, 29366), (400, 29363), (410, 29336), (415, 29321), (424, 29309), (448, 29258), (485, 29168), (490, 29156), (570, 29063), (585, 29024), (595, 29006), (607, 28991), (643, 28925), (660, 28892), (663, 28889), (710, 28787), (742, 28727), (778, 28643), (803, 28562), (835, 28478), (836, 28475), (840, 28466), (847, 28439), (855, 28409), (895, 28349), (906, 28310), (1009, 28094), (1010, 28091), (1013, 28070), (1066, 27935), (1073, 27923), (1079, 27914), (1082, 27911), (1115, 27818),

Gene: ImtiyazSitla_62 Start: 54257, Stop: 52398, Start Num: 190
Candidate Starts for ImtiyazSitla_62:
(Start: 173 @54281 has 3 MA's), (Start: 190 @54257 has 336 MA's), (Start: 222 @54233 has 3 MA's), (Start: 232 @54227 has 2 MA's), (261, 54185), (274, 54164), (336, 54050), (339, 54044), (355, 54014), (390, 53954), (398, 53933), (416, 53879), (429, 53867), (436, 53849), (440, 53837), (487, 53732), (552, 53675), (569, 53639), (573, 53627), (583, 53603), (590, 53591), (601, 53573), (611, 53555), (622, 53537), (643, 53498), (648, 53489), (649, 53486), (651, 53483), (761, 53228), (796, 53126), (804, 53093), (812, 53072), (848, 52979), (851, 52970), (877, 52907), (900, 52871), (901, 52868), (906, 52853), (939, 52775), (946, 52763), (953, 52742), (976, 52703), (1013, 52613), (1022, 52595), (1024, 52589), (1032, 52574), (1040, 52550), (1042, 52535), (1043, 52532), (1047, 52520), (1059, 52496), (1066, 52475), (1082, 52448), (1093, 52424),

Gene: Imvubu_52 Start: 51848, Stop: 49983, Start Num: 176
Candidate Starts for Imvubu_52:
(89, 52028), (Start: 163 @51866 has 29 MA's), (Start: 166 @51863 has 1 MA's), (Start: 176 @51848 has 7 MA's), (Start: 232 @51803 has 2 MA's), (249, 51776), (278, 51731), (399, 51518), (439, 51431), (487, 51323), (552, 51266), (569, 51230), (573, 51218), (583, 51194), (585, 51191), (590, 51182), (594, 51176), (649, 51071), (664, 51041), (685, 51005), (686, 50999), (776, 50771), (804, 50678), (848, 50564), (851, 50555), (877, 50492), (900, 50456), (901, 50453), (906, 50438), (939, 50360), (946, 50348), (953, 50327), (955, 50318), (967, 50300), (992, 50258), (1002, 50243), (1013, 50198), (1024, 50174), (1032, 50159), (1040, 50135), (1041, 50123), (1042, 50120), (1043, 50117), (1047, 50105), (1054, 50093), (1059, 50081), (1067, 50057), (1093, 50009),

Gene: Inchworm_62 Start: 54408, Stop: 52549, Start Num: 190
Candidate Starts for Inchworm_62:
(Start: 173 @54432 has 3 MA's), (Start: 190 @54408 has 336 MA's), (Start: 222 @54384 has 3 MA's), (Start: 232 @54378 has 2 MA's), (261, 54336), (274, 54315), (336, 54201), (339, 54195), (355, 54165),

(390, 54105), (398, 54084), (416, 54030), (429, 54018), (436, 54000), (440, 53988), (487, 53883), (552, 53826), (569, 53790), (573, 53778), (585, 53751), (601, 53724), (611, 53706), (622, 53688), (643, 53649), (648, 53640), (649, 53637), (651, 53634), (796, 53277), (804, 53244), (812, 53223), (848, 53130), (851, 53121), (877, 53058), (900, 53022), (901, 53019), (906, 53004), (939, 52926), (946, 52914), (953, 52893), (976, 52854), (1013, 52764), (1022, 52746), (1024, 52740), (1032, 52725), (1040, 52701), (1042, 52686), (1043, 52683), (1047, 52671), (1059, 52647), (1082, 52599), (1093, 52575),

Gene: Indlovu_55 Start: 54200, Stop: 52356, Start Num: 184
Candidate Starts for Indlovu_55:
(Start: 184 @54200 has 3 MA's), (274, 54098), (355, 53960), (399, 53876), (452, 53759), (457, 53756), (487, 53690), (552, 53633), (569, 53597), (573, 53585), (583, 53561), (648, 53447), (649, 53444), (651, 53441), (685, 53378), (750, 53213), (755, 53204), (787, 53108), (804, 53051), (826, 53000), (848, 52937), (851, 52928), (875, 52865), (906, 52811), (919, 52787), (939, 52733), (946, 52721), (953, 52700), (955, 52691), (960, 52682), (990, 52637), (992, 52631), (1002, 52616), (1013, 52571), (1022, 52553), (1024, 52547), (1040, 52508), (1041, 52496), (1042, 52493), (1043, 52490), (1054, 52466), (1059, 52454), (1093, 52382),

Gene: Indra_48 Start: 29792, Stop: 27951, Start Num: 228
Candidate Starts for Indra_48:
(Start: 228 @29792 has 960 MA's), (360, 29588), (399, 29513), (400, 29510), (410, 29483), (415, 29468), (424, 29456), (448, 29405), (485, 29315), (490, 29303), (570, 29210), (585, 29171), (595, 29153), (607, 29138), (643, 29072), (660, 29039), (663, 29036), (710, 28934), (742, 28874), (778, 28790), (803, 28709), (835, 28625), (836, 28622), (840, 28613), (847, 28586), (855, 28556), (895, 28496), (906, 28457), (1009, 28241), (1010, 28238), (1013, 28217), (1066, 28082), (1073, 28070), (1079, 28061), (1082, 28058), (1115, 27965),

Gene: IndyLu_42 Start: 29805, Stop: 31679, Start Num: 217
Candidate Starts for IndyLu_42:
(Start: 217 @29805 has 68 MA's), (Start: 273 @29874 has 1 MA's), (Start: 285 @29895 has 1 MA's), (430, 30141), (436, 30156), (473, 30237), (626, 30477), (741, 30711), (783, 30831), (784, 30834), (803, 30894), (830, 30960), (833, 30975), (845, 31011), (855, 31047), (898, 31140), (973, 31311), (975, 31314), (1009, 31383), (1018, 31422), (1038, 31464), (1041, 31482), (1066, 31542), (1079, 31563),

Gene: Insomnia_45 Start: 30835, Stop: 29048, Start Num: 228
Candidate Starts for Insomnia_45:
(Start: 228 @30835 has 960 MA's), (360, 30631), (399, 30559), (410, 30529), (424, 30502), (572, 30250), (595, 30199), (643, 30118), (668, 30073), (707, 29989), (733, 29932), (766, 29890), (778, 29845), (803, 29764), (823, 29713), (836, 29677), (855, 29611), (895, 29551), (897, 29539), (938, 29437), (949, 29413), (954, 29395), (992, 29332), (1007, 29305), (1009, 29296), (1013, 29272), (1066, 29137), (1073, 29125), (1079, 29116),

Gene: Inventa_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Inventa_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: Inverness_59 Start: 54064, Stop: 52205, Start Num: 190
Candidate Starts for Inverness_59:
(Start: 173 @54088 has 3 MA's), (Start: 190 @54064 has 336 MA's), (Start: 222 @54040 has 3 MA's), (Start: 232 @54034 has 2 MA's), (261, 53992), (274, 53971), (336, 53857), (339, 53851), (355, 53821), (390, 53761), (398, 53740), (416, 53686), (429, 53674), (436, 53656), (440, 53644), (487, 53539), (552, 53482), (569, 53446), (573, 53434), (583, 53410), (590, 53398), (601, 53380), (611, 53362), (622, 53344), (643, 53305), (648, 53296), (649, 53293), (651, 53290), (796, 52933), (804, 52900), (812, 52879), (848, 52786), (851, 52777), (877, 52714), (901, 52675), (906, 52660), (939, 52582), (946, 52570), (953, 52549), (976, 52510), (1013, 52420), (1022, 52402), (1024, 52396), (1032, 52381), (1040, 52357), (1042, 52342), (1043, 52339), (1047, 52327), (1059, 52303), (1082, 52255), (1093, 52231),

Gene: Inyanga_42 Start: 33573, Stop: 31747, Start Num: 228
Candidate Starts for Inyanga_42:
(Start: 228 @33573 has 960 MA's), (366, 33360), (373, 33345), (399, 33297), (410, 33267), (418, 33246), (424, 33240), (430, 33231), (479, 33114), (490, 33087), (570, 32994), (576, 32979), (621, 32895), (622, 32892), (659, 32826), (680, 32796), (690, 32766), (709, 32721), (729, 32682), (803, 32502), (815, 32472), (821, 32454), (836, 32415), (855, 32349), (900, 32268), (901, 32265), (935, 32184), (1009, 32034), (1010, 32031), (1018, 31995), (1032, 31971), (1039, 31950), (1066, 31875), (1079, 31854),

Gene: Ioannes_39 Start: 28925, Stop: 27069, Start Num: 305
Candidate Starts for Ioannes_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (435, 28658), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (585, 28361), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (701, 28127), (726, 28067), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (879, 27665), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Iqorha_42 Start: 33572, Stop: 31746, Start Num: 228
Candidate Starts for Iqorha_42:
(Start: 228 @33572 has 960 MA's), (366, 33359), (373, 33344), (399, 33296), (410, 33266), (418, 33245), (424, 33239), (430, 33230), (479, 33113), (490, 33086), (570, 32993), (576, 32978), (621, 32894), (622, 32891), (659, 32825), (680, 32795), (690, 32765), (709, 32720), (729, 32681), (803, 32501), (815, 32471), (821, 32453), (836, 32414), (855, 32348), (900, 32267), (901, 32264), (935, 32183), (1009, 32033), (1010, 32030), (1018, 31994), (1032, 31970), (1039, 31949), (1066, 31874), (1079, 31853),

Gene: Iracema64_46 Start: 31834, Stop: 30008, Start Num: 228
Candidate Starts for Iracema64_46:
(Start: 228 @31834 has 960 MA's), (Start: 241 @31813 has 3 MA's), (263, 31783), (278, 31753), (384, 31591), (394, 31573), (424, 31501), (430, 31492), (480, 31372), (490, 31348), (570, 31255), (592, 31207), (607, 31186), (626, 31147), (696, 31015), (707, 30994), (729, 30949), (733, 30937), (798, 30784), (803, 30763), (847, 30640), (855, 30610), (871, 30571), (900, 30505), (901, 30502), (906, 30487), (919, 30463), (929, 30439), (1013, 30232), (1066, 30097), (1073, 30085), (1079, 30076),

Gene: Iridessa_61 Start: 53981, Stop: 52122, Start Num: 190
Candidate Starts for Iridessa_61:
(Start: 173 @54005 has 3 MA's), (Start: 190 @53981 has 336 MA's), (Start: 222 @53957 has 3 MA's), (Start: 232 @53951 has 2 MA's), (261, 53909), (274, 53888), (336, 53774), (339, 53768), (355, 53738), (390, 53678), (398, 53657), (416, 53603), (429, 53591), (436, 53573), (440, 53561), (487, 53456),

(552, 53399), (569, 53363), (573, 53351), (583, 53327), (590, 53315), (601, 53297), (611, 53279), (622, 53261), (643, 53222), (648, 53213), (649, 53210), (651, 53207), (796, 52850), (804, 52817), (812, 52796), (848, 52703), (851, 52694), (877, 52631), (900, 52595), (901, 52592), (906, 52577), (939, 52499), (946, 52487), (953, 52466), (976, 52427), (1013, 52337), (1022, 52319), (1024, 52313), (1032, 52298), (1040, 52274), (1042, 52259), (1043, 52256), (1047, 52244), (1059, 52220), (1082, 52172), (1093, 52148),

Gene: Iridoclysis_61 Start: 54348, Stop: 52489, Start Num: 190
Candidate Starts for Iridoclysis_61:
(Start: 173 @54372 has 3 MA's), (Start: 190 @54348 has 336 MA's), (Start: 222 @54324 has 3 MA's), (Start: 232 @54318 has 2 MA's), (261, 54276), (274, 54255), (336, 54141), (339, 54135), (355, 54105), (390, 54045), (398, 54024), (416, 53970), (429, 53958), (436, 53940), (440, 53928), (487, 53823), (552, 53766), (569, 53730), (573, 53718), (585, 53691), (601, 53664), (611, 53646), (622, 53628), (643, 53589), (648, 53580), (649, 53577), (761, 53319), (796, 53217), (804, 53184), (812, 53163), (848, 53070), (851, 53061), (877, 52998), (900, 52962), (901, 52959), (906, 52944), (939, 52866), (946, 52854), (953, 52833), (976, 52794), (1013, 52704), (1022, 52686), (1024, 52680), (1032, 52665), (1040, 52641), (1042, 52626), (1043, 52623), (1047, 52611), (1059, 52587), (1082, 52539), (1093, 52515),

Gene: IronMan_44 Start: 32460, Stop: 30670, Start Num: 228
Candidate Starts for IronMan_44:
(Start: 228 @32460 has 960 MA's), (360, 32256), (366, 32247), (400, 32178), (410, 32151), (424, 32124), (490, 31971), (570, 31878), (590, 31830), (595, 31821), (607, 31806), (643, 31740), (660, 31707), (701, 31623), (742, 31542), (766, 31512), (803, 31386), (815, 31356), (823, 31335), (847, 31263), (851, 31251), (855, 31233), (871, 31194), (895, 31173), (900, 31152), (904, 31140), (982, 30972), (1009, 30918), (1013, 30894), (1038, 30837), (1042, 30816), (1066, 30759), (1073, 30747), (1079, 30738),

Gene: IsaacEli_62 Start: 54547, Stop: 52688, Start Num: 190
Candidate Starts for IsaacEli_62:
(Start: 173 @54571 has 3 MA's), (Start: 190 @54547 has 336 MA's), (Start: 222 @54523 has 3 MA's), (Start: 232 @54517 has 2 MA's), (261, 54475), (274, 54454), (336, 54340), (339, 54334), (355, 54304), (390, 54244), (398, 54223), (416, 54169), (429, 54157), (436, 54139), (440, 54127), (487, 54022), (552, 53965), (569, 53929), (573, 53917), (577, 53908), (585, 53890), (601, 53863), (611, 53845), (622, 53827), (643, 53788), (648, 53779), (649, 53776), (651, 53773), (761, 53518), (796, 53416), (804, 53383), (812, 53362), (848, 53269), (851, 53260), (877, 53197), (900, 53161), (901, 53158), (906, 53143), (939, 53065), (946, 53053), (953, 53032), (976, 52993), (1013, 52903), (1022, 52885), (1024, 52879), (1032, 52864), (1040, 52840), (1042, 52825), (1043, 52822), (1047, 52810), (1059, 52786), (1082, 52738), (1093, 52714),

Gene: Isca_44 Start: 30978, Stop: 29140, Start Num: 228
Candidate Starts for Isca_44:
(171, 31050), (Start: 228 @30978 has 960 MA's), (263, 30927), (360, 30774), (384, 30735), (399, 30702), (424, 30645), (430, 30636), (435, 30624), (480, 30516), (490, 30492), (570, 30396), (592, 30348), (626, 30288), (696, 30156), (707, 30135), (746, 30060), (767, 30021), (778, 29979), (803, 29898), (836, 29811), (847, 29775), (855, 29745), (901, 29634), (919, 29595), (929, 29571), (935, 29553), (936, 29550), (990, 29430), (992, 29424), (1013, 29364), (1066, 29229), (1073, 29217), (1079, 29208),

Gene: Isiphiwo_43 Start: 29164, Stop: 27323, Start Num: 228
Candidate Starts for Isiphiwo_43:
(Start: 228 @29164 has 960 MA's), (360, 28960), (399, 28885), (400, 28882), (410, 28855), (415, 28840), (424, 28828), (448, 28777), (485, 28687), (490, 28675), (570, 28582), (585, 28543), (595,

28525), (607, 28510), (643, 28444), (660, 28411), (663, 28408), (710, 28306), (742, 28246), (778, 28162), (803, 28081), (835, 27997), (836, 27994), (840, 27985), (847, 27958), (855, 27928), (895, 27868), (906, 27829), (919, 27805), (1009, 27613), (1010, 27610), (1013, 27589), (1066, 27454), (1073, 27442), (1079, 27433), (1082, 27430), (1115, 27337),

Gene: Iter_41 Start: 29603, Stop: 31468, Start Num: 228
Candidate Starts for Iter_41:
(Start: 228 @29603 has 960 MA's), (261, 29651), (366, 29816), (410, 29900), (452, 29990), (572, 30197), (576, 30206), (622, 30296), (626, 30305), (633, 30320), (707, 30458), (768, 30596), (803, 30716), (815, 30746), (836, 30803), (855, 30869), (898, 30962), (929, 31034), (1066, 31364), (1071, 31373),

Gene: ItsyBitsy1_57 Start: 52478, Stop: 50649, Start Num: 190
Candidate Starts for ItsyBitsy1_57:
(Start: 190 @52478 has 336 MA's), (Start: 232 @52451 has 2 MA's), (Start: 255 @52421 has 8 MA's), (261, 52409), (Start: 276 @52382 has 2 MA's), (278, 52379), (284, 52370), (307, 52352), (362, 52256), (390, 52205), (399, 52181), (406, 52157), (467, 52019), (482, 51995), (487, 51983), (552, 51926), (569, 51890), (573, 51878), (583, 51854), (630, 51770), (648, 51740), (649, 51737), (664, 51707), (727, 51563), (755, 51497), (775, 51446), (780, 51425), (787, 51407), (804, 51350), (840, 51266), (851, 51227), (875, 51161), (897, 51134), (900, 51125), (906, 51107), (919, 51083), (939, 51029), (946, 51017), (953, 50996), (992, 50927), (1013, 50867), (1022, 50849), (1036, 50816), (1040, 50804), (1042, 50789), (1043, 50786), (1047, 50774), (1059, 50750), (1060, 50747), (1082, 50699), (1083, 50696), (1093, 50675), (1100, 50654),

Gene: IttyBittyPiggy_41 Start: 29144, Stop: 31009, Start Num: 228
Candidate Starts for IttyBittyPiggy_41:
(Start: 228 @29144 has 960 MA's), (261, 29192), (462, 29561), (572, 29738), (626, 29846), (633, 29861), (707, 29999), (768, 30137), (803, 30257), (836, 30344), (855, 30410), (898, 30503), (1066, 30905), (1071, 30914),

Gene: Iwokeuplikedis_47 Start: 31404, Stop: 29578, Start Num: 228
Candidate Starts for Iwokeuplikedis_47:
(Start: 228 @31404 has 960 MA's), (360, 31200), (366, 31191), (375, 31176), (384, 31161), (400, 31125), (410, 31098), (424, 31071), (435, 31050), (490, 30918), (570, 30825), (595, 30768), (607, 30753), (643, 30687), (686, 30606), (707, 30558), (709, 30552), (744, 30486), (778, 30414), (803, 30333), (823, 30282), (835, 30249), (836, 30246), (855, 30180), (871, 30141), (895, 30120), (924, 30045), (931, 30027), (949, 29982), (958, 29955), (982, 29919), (1009, 29865), (1013, 29841), (1038, 29784), (1042, 29763), (1066, 29706), (1073, 29694), (1082, 29682), (1115, 29589),

Gene: Ixel_38 Start: 27481, Stop: 25580, Start Num: 301
Candidate Starts for Ixel_38:
(Start: 301 @27481 has 153 MA's), (378, 27328), (380, 27325), (382, 27322), (402, 27271), (431, 27214), (435, 27205), (439, 27193), (442, 27187), (455, 27151), (474, 27097), (582, 26911), (586, 26902), (590, 26890), (607, 26860), (618, 26839), (623, 26827), (636, 26803), (708, 26653), (749, 26557), (800, 26392), (840, 26290), (855, 26233), (870, 26197), (873, 26191), (908, 26104), (924, 26059), (974, 25945), (997, 25885), (1010, 25846), (1013, 25822), (1015, 25816), (1025, 25789), (1068, 25678),

Gene: JAMaL_53 Start: 54192, Stop: 52339, Start Num: 159
Candidate Starts for JAMaL_53:
(148, 54210), (Start: 159 @54192 has 2 MA's), (Start: 232 @54138 has 2 MA's), (249, 54111), (261, 54096), (307, 54024), (309, 54018), (345, 53955), (355, 53937), (362, 53928), (384, 53886), (390, 53877), (391, 53874), (399, 53853), (430, 53787), (449, 53745), (452, 53736), (457, 53733), (467,

53703), (552, 53610), (560, 53592), (569, 53574), (573, 53562), (583, 53538), (585, 53535), (648, 53424), (649, 53421), (651, 53418), (664, 53391), (685, 53355), (775, 53130), (776, 53127), (787, 53091), (797, 53061), (798, 53058), (804, 53034), (846, 52926), (848, 52920), (851, 52911), (900, 52812), (901, 52809), (906, 52794), (939, 52716), (946, 52704), (953, 52683), (955, 52674), (976, 52644), (992, 52614), (1007, 52587), (1013, 52554), (1024, 52530), (1040, 52491), (1042, 52476), (1043, 52473), (1047, 52461), (1059, 52437), (1078, 52395), (1082, 52389), (1093, 52365),

Gene: JC27_45 Start: 34894, Stop: 33068, Start Num: 228
Candidate Starts for JC27_45:
(Start: 228 @34894 has 960 MA's), (366, 34681), (410, 34588), (418, 34567), (424, 34561), (430, 34552), (479, 34435), (490, 34408), (570, 34315), (576, 34300), (590, 34267), (621, 34216), (622, 34213), (659, 34147), (680, 34117), (690, 34087), (709, 34042), (729, 34003), (803, 33823), (821, 33775), (836, 33736), (855, 33670), (871, 33631), (895, 33610), (900, 33589), (906, 33571), (935, 33505), (1009, 33355), (1010, 33352), (1018, 33316), (1032, 33292), (1035, 33283), (1039, 33271), (1045, 33244), (1066, 33196), (1079, 33175),

Gene: JDog_59 Start: 54563, Stop: 52704, Start Num: 190
Candidate Starts for JDog_59:
(Start: 173 @54587 has 3 MA's), (Start: 190 @54563 has 336 MA's), (Start: 222 @54539 has 3 MA's), (Start: 232 @54533 has 2 MA's), (261, 54491), (274, 54470), (336, 54356), (339, 54350), (355, 54320), (390, 54260), (398, 54239), (416, 54185), (429, 54173), (436, 54155), (440, 54143), (487, 54038), (552, 53981), (569, 53945), (573, 53933), (583, 53909), (590, 53897), (601, 53879), (611, 53861), (622, 53843), (643, 53804), (648, 53795), (649, 53792), (761, 53534), (796, 53432), (804, 53399), (812, 53378), (848, 53285), (851, 53276), (877, 53213), (900, 53177), (901, 53174), (906, 53159), (939, 53081), (946, 53069), (953, 53048), (976, 53009), (1013, 52919), (1022, 52901), (1024, 52895), (1032, 52880), (1040, 52856), (1042, 52841), (1043, 52838), (1047, 52826), (1059, 52802), (1082, 52754), (1093, 52730),

Gene: JF2_45 Start: 30729, Stop: 28891, Start Num: 228
Candidate Starts for JF2_45:
(171, 30801), (Start: 228 @30729 has 960 MA's), (263, 30678), (360, 30525), (384, 30486), (399, 30453), (424, 30396), (430, 30387), (435, 30375), (480, 30267), (490, 30243), (570, 30147), (592, 30099), (626, 30039), (696, 29907), (707, 29886), (742, 29817), (767, 29772), (778, 29730), (803, 29649), (836, 29562), (847, 29526), (855, 29496), (901, 29385), (919, 29346), (929, 29322), (935, 29304), (990, 29181), (992, 29175), (1013, 29115), (1065, 28983), (1066, 28980), (1073, 28968), (1079, 28959),

Gene: JF4_45 Start: 30729, Stop: 28891, Start Num: 228
Candidate Starts for JF4_45:
(171, 30801), (Start: 228 @30729 has 960 MA's), (263, 30678), (360, 30525), (384, 30486), (399, 30453), (424, 30396), (430, 30387), (435, 30375), (480, 30267), (490, 30243), (570, 30147), (592, 30099), (626, 30039), (696, 29907), (707, 29886), (742, 29817), (767, 29772), (778, 29730), (803, 29649), (836, 29562), (847, 29526), (855, 29496), (901, 29385), (919, 29346), (929, 29322), (935, 29304), (990, 29181), (992, 29175), (1013, 29115), (1065, 28983), (1066, 28980), (1073, 28968), (1079, 28959),

Gene: JHC117_48 Start: 31851, Stop: 30037, Start Num: 228
Candidate Starts for JHC117_48:
(Start: 228 @31851 has 960 MA's), (257, 31812), (263, 31800), (360, 31647), (369, 31632), (399, 31575), (424, 31518), (430, 31509), (448, 31467), (465, 31416), (490, 31365), (570, 31272), (590, 31224), (595, 31215), (607, 31200), (626, 31161), (643, 31134), (659, 31104), (703, 31011), (732, 30951), (742, 30936), (803, 30780), (836, 30693), (855, 30627), (871, 30588), (901, 30516), (919, 30477), (929, 30453), (935, 30435), (949, 30402), (958, 30375), (992, 30321), (1013, 30261), (1042,

30183), (1066, 30126), (1073, 30114), (1079, 30105),

Gene: JSwag_46 Start: 29679, Stop: 27889, Start Num: 228
Candidate Starts for JSwag_46:
(Start: 228 @29679 has 960 MA's), (343, 29505), (399, 29400), (400, 29397), (410, 29370), (424, 29343), (448, 29292), (490, 29190), (570, 29097), (587, 29052), (590, 29049), (595, 29040), (686, 28878), (696, 28851), (707, 28830), (709, 28824), (768, 28725), (778, 28686), (796, 28635), (803, 28605), (823, 28554), (835, 28521), (845, 28488), (847, 28482), (855, 28452), (895, 28392), (900, 28371), (919, 28329), (930, 28302), (935, 28287), (977, 28200), (1009, 28137), (1010, 28134), (1066, 27978), (1073, 27966), (1082, 27954),

Gene: Jaan_45 Start: 32749, Stop: 30959, Start Num: 228
Candidate Starts for Jaan_45:
(Start: 228 @32749 has 960 MA's), (360, 32545), (366, 32536), (400, 32467), (410, 32440), (424, 32413), (490, 32260), (570, 32167), (590, 32119), (595, 32110), (607, 32095), (643, 32029), (660, 31996), (701, 31912), (742, 31831), (766, 31801), (803, 31675), (823, 31624), (847, 31552), (855, 31522), (871, 31483), (895, 31462), (900, 31441), (904, 31429), (982, 31261), (1009, 31207), (1013, 31183), (1038, 31126), (1042, 31105), (1066, 31048), (1073, 31036), (1079, 31027),

Gene: Jabb_43 Start: 29585, Stop: 31459, Start Num: 217
Candidate Starts for Jabb_43:
(Start: 215 @29582 has 12 MA's), (Start: 217 @29585 has 68 MA's), (Start: 273 @29654 has 1 MA's), (Start: 285 @29675 has 1 MA's), (399, 29855), (430, 29921), (448, 29963), (626, 30257), (696, 30392), (741, 30491), (784, 30614), (803, 30674), (806, 30680), (823, 30725), (833, 30755), (845, 30791), (855, 30827), (898, 30920), (936, 31013), (973, 31091), (1009, 31163), (1018, 31202), (1038, 31244), (1041, 31262), (1066, 31322), (1079, 31343),

Gene: Jabiru_39 Start: 30201, Stop: 28336, Start Num: 228
Candidate Starts for Jabiru_39:
(Start: 228 @30201 has 960 MA's), (304, 30090), (360, 29997), (362, 29994), (399, 29925), (410, 29895), (424, 29868), (430, 29859), (465, 29766), (473, 29751), (490, 29715), (556, 29655), (570, 29619), (590, 29571), (606, 29550), (607, 29547), (637, 29487), (685, 29409), (703, 29361), (709, 29349), (732, 29301), (761, 29250), (803, 29115), (821, 29067), (830, 29049), (836, 29028), (840, 29019), (848, 28989), (855, 28962), (856, 28959), (900, 28881), (906, 28863), (929, 28815), (949, 28764), (977, 28710), (982, 28701), (992, 28683), (1022, 28605), (1066, 28488), (1073, 28476), (1115, 28371),

Gene: Jabith_45 Start: 30836, Stop: 29049, Start Num: 228
Candidate Starts for Jabith_45:
(Start: 228 @30836 has 960 MA's), (360, 30632), (399, 30560), (410, 30530), (424, 30503), (572, 30251), (595, 30200), (643, 30119), (668, 30074), (670, 30071), (707, 29990), (733, 29933), (766, 29891), (778, 29846), (803, 29765), (823, 29714), (836, 29678), (855, 29612), (895, 29552), (938, 29438), (949, 29414), (954, 29396), (992, 29333), (1007, 29306), (1009, 29297), (1013, 29273), (1066, 29138), (1073, 29126), (1079, 29117),

Gene: JacAttac_62 Start: 54010, Stop: 52151, Start Num: 190
Candidate Starts for JacAttac_62:
(Start: 173 @54034 has 3 MA's), (Start: 190 @54010 has 336 MA's), (Start: 222 @53986 has 3 MA's), (Start: 232 @53980 has 2 MA's), (261, 53938), (274, 53917), (336, 53803), (339, 53797), (355, 53767), (390, 53707), (398, 53686), (416, 53632), (429, 53620), (436, 53602), (440, 53590), (487, 53485), (552, 53428), (569, 53392), (573, 53380), (583, 53356), (590, 53344), (601, 53326), (611, 53308), (622, 53290), (643, 53251), (648, 53242), (649, 53239), (651, 53236), (796, 52879), (804, 52846), (812, 52825), (848, 52732), (851, 52723), (877, 52660), (900, 52624), (901, 52621), (906, 52606),

(939, 52528), (946, 52516), (953, 52495), (976, 52456), (1013, 52366), (1022, 52348), (1024, 52342), (1032, 52327), (1040, 52303), (1042, 52288), (1043, 52285), (1047, 52273), (1059, 52249), (1082, 52201), (1093, 52177),

Gene: JackSparrow_46 Start: 35167, Stop: 33338, Start Num: 228
Candidate Starts for JackSparrow_46:
(Start: 228 @35167 has 960 MA's), (366, 34954), (410, 34861), (418, 34840), (424, 34834), (430, 34825), (479, 34708), (490, 34681), (570, 34588), (576, 34573), (590, 34540), (621, 34489), (622, 34486), (659, 34420), (680, 34390), (690, 34360), (709, 34315), (729, 34276), (803, 34096), (821, 34048), (840, 34000), (851, 33961), (855, 33943), (871, 33904), (895, 33883), (900, 33862), (905, 33847), (955, 33724), (1036, 33553), (1041, 33529), (1062, 33481), (1066, 33469), (1079, 33448), (1083, 33442), (1102, 33394), (1109, 33379),

Gene: Jackstina_54 Start: 53566, Stop: 51749, Start Num: 230
Candidate Starts for Jackstina_54:
(Start: 230 @53566 has 52 MA's), (249, 53536), (366, 53356), (435, 53203), (439, 53191), (452, 53161), (458, 53155), (487, 53092), (489, 53086), (552, 53035), (569, 52999), (590, 52951), (649, 52846), (694, 52750), (722, 52699), (775, 52555), (787, 52516), (797, 52486), (804, 52459), (810, 52447), (846, 52351), (848, 52345), (851, 52336), (854, 52324), (883, 52252), (900, 52222), (906, 52204), (912, 52195), (939, 52126), (946, 52114), (953, 52093), (992, 52024), (1002, 52009), (1010, 51985), (1013, 51964), (1024, 51940), (1040, 51901), (1043, 51883), (1047, 51871), (1054, 51859), (1059, 51847), (1078, 51805), (1093, 51775),

Gene: Jaek_55 Start: 36879, Stop: 34711, Start Num: 213
Candidate Starts for Jaek_55:
(212, 36882), (Start: 213 @36879 has 13 MA's), (251, 36825), (299, 36741), (382, 36588), (387, 36579), (404, 36534), (429, 36456), (432, 36447), (438, 36432), (446, 36417), (447, 36414), (467, 36357), (506, 36264), (520, 36222), (601, 36027), (607, 36015), (609, 36009), (622, 35985), (631, 35964), (646, 35943), (653, 35928), (656, 35922), (689, 35859), (709, 35808), (737, 35721), (763, 35661), (778, 35613), (813, 35511), (815, 35505), (824, 35478), (825, 35475), (835, 35454), (848, 35412), (850, 35406), (856, 35382), (876, 35340), (877, 35337), (888, 35310), (896, 35277), (898, 35265), (914, 35229), (924, 35205), (926, 35199), (929, 35193), (950, 35139), (976, 35091), (977, 35088), (1002, 35028), (1009, 35004), (1015, 34974), (1037, 34920), (1054, 34851), (1059, 34839), (1075, 34800),

Gene: JaguarMi_55 Start: 55103, Stop: 53277, Start Num: 182
Candidate Starts for JaguarMi_55:
(Start: 163 @55121 has 29 MA's), (Start: 182 @55103 has 33 MA's), (Start: 232 @55076 has 2 MA's), (249, 55049), (261, 55034), (274, 55013), (324, 54926), (336, 54908), (386, 54821), (398, 54794), (402, 54779), (436, 54713), (449, 54683), (452, 54674), (457, 54671), (458, 54668), (467, 54641), (552, 54548), (560, 54530), (569, 54512), (573, 54500), (585, 54473), (622, 54410), (643, 54371), (648, 54362), (649, 54359), (664, 54329), (685, 54293), (775, 54068), (776, 54065), (787, 54029), (796, 54005), (804, 53972), (846, 53864), (848, 53858), (851, 53849), (900, 53750), (901, 53747), (906, 53732), (939, 53654), (946, 53642), (953, 53621), (955, 53612), (976, 53582), (992, 53552), (1007, 53525), (1013, 53492), (1022, 53474), (1024, 53468), (1040, 53429), (1043, 53411), (1047, 53399), (1059, 53375), (1078, 53333), (1082, 53327), (1093, 53303),

Gene: JakeO_61 Start: 54286, Stop: 52427, Start Num: 190
Candidate Starts for JakeO_61:
(Start: 173 @54310 has 3 MA's), (Start: 190 @54286 has 336 MA's), (Start: 222 @54262 has 3 MA's), (Start: 232 @54256 has 2 MA's), (261, 54214), (274, 54193), (336, 54079), (339, 54073), (355, 54043), (390, 53983), (398, 53962), (416, 53908), (429, 53896), (436, 53878), (440, 53866), (487, 53761), (552, 53704), (569, 53668), (573, 53656), (583, 53632), (590, 53620), (601, 53602), (611, 53584),

(622, 53566), (643, 53527), (648, 53518), (649, 53515), (651, 53512), (796, 53155), (804, 53122), (812, 53101), (848, 53008), (851, 52999), (877, 52936), (900, 52900), (901, 52897), (906, 52882), (939, 52804), (946, 52792), (953, 52771), (976, 52732), (1013, 52642), (1022, 52624), (1024, 52618), (1032, 52603), (1040, 52579), (1042, 52564), (1043, 52561), (1047, 52549), (1059, 52525), (1066, 52504), (1082, 52477), (1093, 52453), (1098, 52438),

Gene: Janeemi_43 Start: 31325, Stop: 33190, Start Num: 228
Candidate Starts for Janeemi_43:
(Start: 228 @31325 has 960 MA's), (261, 31373), (360, 31529), (410, 31622), (418, 31643), (452, 31712), (576, 31928), (622, 32018), (626, 32027), (633, 32042), (643, 32054), (686, 32132), (707, 32180), (733, 32237), (768, 32318), (803, 32438), (836, 32525), (855, 32591), (898, 32684), (929, 32756), (977, 32864), (1002, 32906), (1013, 32951), (1062, 33074), (1066, 33086), (1071, 33095), (1107, 33173),

Gene: JangoPhett_60 Start: 54351, Stop: 52492, Start Num: 190
Candidate Starts for JangoPhett_60:
(Start: 173 @54375 has 3 MA's), (Start: 190 @54351 has 336 MA's), (Start: 222 @54327 has 3 MA's), (Start: 232 @54321 has 2 MA's), (261, 54279), (274, 54258), (336, 54144), (339, 54138), (355, 54108), (390, 54048), (398, 54027), (416, 53973), (429, 53961), (436, 53943), (440, 53931), (487, 53826), (552, 53769), (569, 53733), (573, 53721), (583, 53697), (590, 53685), (601, 53667), (611, 53649), (622, 53631), (643, 53592), (648, 53583), (649, 53580), (651, 53577), (796, 53220), (804, 53187), (812, 53166), (848, 53073), (851, 53064), (877, 53001), (900, 52965), (901, 52962), (906, 52947), (939, 52869), (946, 52857), (953, 52836), (976, 52797), (1013, 52707), (1022, 52689), (1024, 52683), (1032, 52668), (1040, 52644), (1042, 52629), (1043, 52626), (1047, 52614), (1059, 52590), (1082, 52542), (1093, 52518),

Gene: Jankie_38 Start: 28206, Stop: 30071, Start Num: 228
Candidate Starts for Jankie_38:
(Start: 228 @28206 has 960 MA's), (399, 28473), (410, 28503), (572, 28800), (622, 28899), (633, 28923), (686, 29013), (707, 29061), (803, 29319), (853, 29463), (855, 29472), (926, 29631), (932, 29646), (977, 29745), (1013, 29832), (1022, 29850), (1066, 29967),

Gene: Janus167_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for Janus167_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Jasmine_38 Start: 33398, Stop: 31653, Start Num: 260
Candidate Starts for Jasmine_38:
(Start: 241 @33425 has 3 MA's), (Start: 260 @33398 has 6 MA's), (262, 33395), (Start: 277 @33362 has 1 MA's), (280, 33356), (337, 33263), (357, 33230), (374, 33203), (441, 33068), (536, 32939), (539, 32933), (556, 32909), (563, 32894), (573, 32867), (585, 32837), (626, 32756), (664, 32687), (680, 32666), (735, 32552), (744, 32534), (847, 32231), (872, 32156), (880, 32138), (921, 32072), (1018, 31838), (1036, 31796), (1066, 31712), (1087, 31679),

Gene: JasmineDragon_45 Start: 30557, Stop: 32419, Start Num: 228
Candidate Starts for JasmineDragon_45:

(148, 30458), (160, 30476), (Start: 228 @30557 has 960 MA's), (261, 30605), (362, 30764), (366, 30770), (418, 30875), (442, 30920), (565, 31127), (626, 31256), (686, 31361), (707, 31409), (745, 31493), (803, 31667), (835, 31751), (845, 31784), (848, 31793), (867, 31844), (898, 31913), (945, 32024), (977, 32093), (981, 32099), (1024, 32204), (1066, 32315),

Gene: JasonD_41 Start: 29572, Stop: 27620, Start Num: 243
Candidate Starts for JasonD_41:
(Start: 241 @29575 has 3 MA's), (Start: 243 @29572 has 1 MA's), (Start: 301 @29488 has 153 MA's), (Start: 305 @29479 has 5 MA's), (380, 29332), (435, 29212), (439, 29200), (442, 29194), (582, 28921), (586, 28912), (590, 28900), (607, 28870), (614, 28855), (618, 28849), (621, 28843), (659, 28768), (767, 28522), (847, 28306), (850, 28297), (851, 28294), (855, 28276), (873, 28234), (908, 28144), (924, 28099), (974, 27985), (992, 27946), (1010, 27886), (1013, 27862), (1015, 27856), (1028, 27823), (1040, 27790), (1044, 27778),

Gene: Jasper_46 Start: 34284, Stop: 32455, Start Num: 228
Candidate Starts for Jasper_46:
(Start: 228 @34284 has 960 MA's), (366, 34071), (373, 34056), (399, 34008), (410, 33978), (418, 33957), (424, 33951), (430, 33942), (479, 33825), (490, 33798), (570, 33705), (576, 33690), (583, 33669), (590, 33657), (621, 33606), (622, 33603), (659, 33537), (680, 33507), (690, 33477), (709, 33432), (729, 33393), (803, 33213), (821, 33165), (840, 33117), (851, 33078), (855, 33060), (871, 33021), (895, 33000), (900, 32979), (905, 32964), (955, 32841), (1036, 32670), (1041, 32646), (1062, 32598), (1066, 32586), (1079, 32565), (1083, 32559), (1102, 32511), (1109, 32496),

Gene: JasperRussell_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for JasperRussell_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Jaykayelowell_43 Start: 31563, Stop: 29737, Start Num: 228
Candidate Starts for Jaykayelowell_43:
(Start: 228 @31563 has 960 MA's), (Start: 241 @31542 has 3 MA's), (263, 31512), (278, 31482), (384, 31320), (394, 31302), (424, 31230), (430, 31221), (480, 31101), (490, 31077), (570, 30984), (592, 30936), (607, 30915), (626, 30876), (696, 30744), (707, 30723), (729, 30678), (733, 30666), (798, 30513), (803, 30492), (847, 30369), (855, 30339), (871, 30300), (900, 30234), (901, 30231), (906, 30216), (919, 30192), (929, 30168), (1013, 29961), (1066, 29826), (1073, 29814), (1079, 29805),

Gene: Jbug01_62 Start: 53929, Stop: 52070, Start Num: 190
Candidate Starts for Jbug01_62:
(Start: 173 @53953 has 3 MA's), (Start: 190 @53929 has 336 MA's), (Start: 222 @53905 has 3 MA's), (Start: 232 @53899 has 2 MA's), (261, 53857), (274, 53836), (336, 53722), (339, 53716), (355, 53686), (390, 53626), (398, 53605), (416, 53551), (429, 53539), (436, 53521), (440, 53509), (487, 53404), (552, 53347), (569, 53311), (573, 53299), (583, 53275), (590, 53263), (601, 53245), (611, 53227), (622, 53209), (643, 53170), (648, 53161), (649, 53158), (651, 53155), (796, 52798), (804, 52765), (812, 52744), (848, 52651), (851, 52642), (877, 52579), (900, 52543), (901, 52540), (906, 52525), (939, 52447), (946, 52435), (953, 52414), (976, 52375), (1013, 52285), (1022, 52267), (1024, 52261), (1032, 52246), (1040, 52222), (1042, 52207), (1043, 52204), (1047, 52192), (1059, 52168), (1082, 52120), (1093, 52096),

Gene: Jeeves_50 Start: 31954, Stop: 30161, Start Num: 228
Candidate Starts for Jeeves_50:
(Start: 228 @31954 has 960 MA's), (235, 31945), (304, 31843), (360, 31750), (399, 31675), (400, 31672), (424, 31618), (480, 31489), (490, 31465), (570, 31372), (587, 31327), (643, 31234), (659, 31204), (729, 31057), (764, 31006), (778, 30958), (803, 30877), (830, 30811), (847, 30754), (855, 30724), (895, 30664), (900, 30643), (949, 30526), (958, 30499), (1007, 30418), (1009, 30409), (1038, 30328), (1042, 30307), (1045, 30298), (1066, 30250), (1073, 30238), (1079, 30229), (1082, 30226),

Gene: Jeffabunny_45 Start: 29478, Stop: 27607, Start Num: 200
Candidate Starts for Jeffabunny_45:
(Start: 200 @29478 has 1 MA's), (Start: 228 @29448 has 960 MA's), (360, 29244), (399, 29169), (400, 29166), (410, 29139), (415, 29124), (424, 29112), (448, 29061), (485, 28971), (490, 28959), (570, 28866), (585, 28827), (595, 28809), (607, 28794), (643, 28728), (660, 28695), (663, 28692), (710, 28590), (742, 28530), (778, 28446), (803, 28365), (835, 28281), (836, 28278), (840, 28269), (847, 28242), (855, 28212), (895, 28152), (906, 28113), (1009, 27897), (1010, 27894), (1013, 27873), (1066, 27738), (1073, 27726), (1079, 27717), (1082, 27714), (1115, 27621),

Gene: JellyBelly_49 Start: 45345, Stop: 43528, Start Num: 225
Candidate Starts for JellyBelly_49:
(75, 45618), (87, 45585), (Start: 225 @45345 has 16 MA's), (249, 45309), (259, 45297), (261, 45294), (278, 45264), (351, 45138), (381, 45090), (411, 45015), (440, 44958), (476, 44883), (487, 44862), (569, 44769), (635, 44640), (649, 44616), (685, 44550), (696, 44517), (775, 44325), (780, 44304), (787, 44286), (804, 44229), (848, 44115), (851, 44106), (901, 44004), (906, 43989), (939, 43911), (946, 43899), (953, 43878), (955, 43869), (990, 43815), (1007, 43782), (1013, 43749), (1014, 43746), (1032, 43710), (1040, 43686), (1059, 43626), (1093, 43554),

Gene: Jemerald_40 Start: 29369, Stop: 27471, Start Num: 296
Candidate Starts for Jemerald_40:
(Start: 296 @29369 has 13 MA's), (369, 29231), (378, 29216), (382, 29210), (402, 29159), (431, 29102), (439, 29081), (442, 29075), (459, 29027), (460, 29024), (502, 28925), (552, 28877), (582, 28802), (586, 28793), (590, 28781), (607, 28751), (618, 28730), (624, 28715), (659, 28649), (726, 28502), (752, 28442), (758, 28427), (768, 28400), (845, 28160), (855, 28124), (873, 28082), (889, 28052), (908, 27995), (965, 27851), (974, 27836), (992, 27797), (997, 27776), (1013, 27713), (1025, 27680), (1044, 27629), (1046, 27623), (1068, 27569),

Gene: JenCasNa_49 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for JenCasNa_49:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (732, 30952), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: Jenos_42 Start: 30134, Stop: 28266, Start Num: 301
Candidate Starts for Jenos_42:
(288, 30149), (Start: 301 @30134 has 153 MA's), (Start: 305 @30125 has 5 MA's), (378, 29981), (380, 29978), (431, 29867), (435, 29858), (439, 29846), (442, 29840), (483, 29735), (552, 29642), (582, 29567), (586, 29558), (590, 29546), (606, 29519), (607, 29516), (614, 29501), (618, 29495), (621, 29489), (701, 29327), (847, 28952), (850, 28943), (851, 28940), (855, 28922), (873, 28880), (908, 28790), (917, 28763), (974, 28631), (992, 28592), (1010, 28532), (1013, 28508), (1028, 28469), (1040, 28436), (1044, 28424),

Gene: JeppNRM_49 Start: 31754, Stop: 29940, Start Num: 228
Candidate Starts for JeppNRM_49:
(Start: 228 @31754 has 960 MA's), (257, 31715), (263, 31703), (360, 31550), (369, 31535), (399, 31478), (424, 31421), (430, 31412), (448, 31370), (465, 31319), (490, 31268), (570, 31175), (590, 31127), (607, 31103), (626, 31064), (643, 31037), (659, 31007), (702, 30917), (703, 30914), (709, 30902), (732, 30854), (742, 30839), (803, 30683), (823, 30632), (835, 30599), (836, 30596), (855, 30530), (871, 30491), (901, 30419), (919, 30380), (929, 30356), (935, 30338), (949, 30305), (992, 30224), (1013, 30164), (1022, 30146), (1042, 30086), (1045, 30077), (1066, 30029), (1073, 30017), (1079, 30008),

Gene: Jerbirus_39 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for Jerbirus_39:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: JeriBeth_38 Start: 28482, Stop: 26617, Start Num: 301
Candidate Starts for JeriBeth_38:
(Start: 241 @28569 has 3 MA's), (Start: 243 @28566 has 1 MA's), (Start: 301 @28482 has 153 MA's), (Start: 305 @28473 has 5 MA's), (353, 28368), (360, 28359), (378, 28329), (380, 28326), (435, 28206), (439, 28194), (442, 28188), (483, 28083), (494, 28056), (582, 27915), (585, 27909), (586, 27906), (590, 27894), (606, 27867), (607, 27864), (614, 27849), (618, 27843), (621, 27837), (638, 27804), (701, 27675), (726, 27615), (847, 27300), (850, 27291), (851, 27288), (855, 27270), (873, 27228), (877, 27222), (879, 27213), (888, 27198), (908, 27141), (974, 26982), (989, 26952), (992, 26943), (1010, 26883), (1013, 26859), (1028, 26820), (1040, 26787), (1044, 26775), (1068, 26715),

Gene: Jerm_46 Start: 31734, Stop: 29947, Start Num: 228
Candidate Starts for Jerm_46:
(147, 31821), (Start: 228 @31734 has 960 MA's), (362, 31527), (366, 31521), (375, 31506), (384, 31491), (400, 31455), (410, 31428), (424, 31401), (435, 31380), (490, 31248), (570, 31155), (590, 31107), (595, 31098), (607, 31083), (643, 31017), (686, 30936), (707, 30888), (709, 30882), (742, 30819), (803, 30663), (823, 30612), (835, 30579), (836, 30576), (855, 30510), (871, 30471), (895, 30450), (924, 30375), (929, 30363), (949, 30312), (982, 30249), (992, 30231), (1009, 30195), (1013, 30171), (1042, 30093), (1066, 30036), (1073, 30024), (1079, 30015),

Gene: Jerm2_45 Start: 34938, Stop: 33109, Start Num: 228
Candidate Starts for Jerm2_45:
(Start: 228 @34938 has 960 MA's), (366, 34725), (373, 34710), (399, 34662), (410, 34632), (418, 34611), (424, 34605), (430, 34596), (479, 34479), (490, 34452), (570, 34359), (576, 34344), (621, 34260), (622, 34257), (659, 34191), (680, 34161), (690, 34131), (709, 34086), (729, 34047), (803, 33867), (821, 33819), (840, 33771), (851, 33732), (855, 33714), (871, 33675), (895, 33654), (900, 33633), (955, 33495), (1036, 33324), (1041, 33300), (1057, 33267), (1062, 33252), (1066, 33240), (1079, 33219), (1083, 33213), (1102, 33165), (1109, 33150),

Gene: Jesabah_62 Start: 55148, Stop: 53289, Start Num: 190
Candidate Starts for Jesabah_62:
(Start: 173 @55172 has 3 MA's), (Start: 190 @55148 has 336 MA's), (Start: 222 @55124 has 3 MA's), (Start: 232 @55118 has 2 MA's), (261, 55076), (274, 55055), (336, 54941), (339, 54935), (355, 54905), (390, 54845), (398, 54824), (416, 54770), (429, 54758), (436, 54740), (440, 54728), (487, 54623),

(552, 54566), (569, 54530), (573, 54518), (585, 54491), (601, 54464), (611, 54446), (622, 54428), (643, 54389), (648, 54380), (649, 54377), (761, 54119), (796, 54017), (804, 53984), (812, 53963), (848, 53870), (851, 53861), (877, 53798), (900, 53762), (901, 53759), (906, 53744), (939, 53666), (946, 53654), (953, 53633), (976, 53594), (1013, 53504), (1022, 53486), (1024, 53480), (1032, 53465), (1040, 53441), (1042, 53426), (1043, 53423), (1047, 53411), (1059, 53387), (1082, 53339), (1093, 53315),

Gene: JessellCookie_10 Start: 8474, Stop: 6273, Start Num: 176
Candidate Starts for JessellCookie_10:
(106, 8588), (138, 8525), (Start: 176 @8474 has 7 MA's), (209, 8429), (247, 8372), (304, 8288), (333, 8240), (388, 8138), (395, 8123), (451, 7970), (508, 7823), (511, 7802), (645, 7502), (673, 7448), (692, 7400), (711, 7355), (714, 7349), (753, 7265), (778, 7190), (841, 6995), (844, 6983), (857, 6935), (877, 6857), (879, 6848), (910, 6758), (970, 6623), (1019, 6485), (1066, 6359), (1073, 6347), (1077, 6338), (1090, 6308),

Gene: Jester_36 Start: 28049, Stop: 26265, Start Num: 228
Candidate Starts for Jester_36:
(Start: 228 @28049 has 960 MA's), (379, 27815), (396, 27785), (398, 27776), (399, 27773), (415, 27728), (424, 27716), (448, 27665), (490, 27563), (498, 27542), (570, 27470), (590, 27422), (626, 27359), (643, 27332), (696, 27227), (709, 27200), (729, 27161), (803, 26981), (821, 26933), (855, 26828), (856, 26825), (895, 26768), (900, 26747), (951, 26624), (990, 26555), (1009, 26513), (1013, 26489), (1042, 26411), (1066, 26354), (1073, 26342), (1100, 26285),

Gene: JetBlade_45 Start: 31564, Stop: 29738, Start Num: 228
Candidate Starts for JetBlade_45:
(Start: 228 @31564 has 960 MA's), (Start: 241 @31543 has 3 MA's), (263, 31513), (278, 31483), (384, 31321), (394, 31303), (424, 31231), (430, 31222), (480, 31102), (490, 31078), (570, 30985), (592, 30937), (607, 30916), (626, 30877), (696, 30745), (707, 30724), (729, 30679), (733, 30667), (798, 30514), (803, 30493), (847, 30370), (855, 30340), (871, 30301), (900, 30235), (901, 30232), (906, 30217), (919, 30193), (929, 30169), (1013, 29962), (1022, 29944), (1066, 29827), (1073, 29815), (1079, 29806),

Gene: JewelBug_47 Start: 29796, Stop: 27955, Start Num: 228
Candidate Starts for JewelBug_47:
(Start: 228 @29796 has 960 MA's), (360, 29592), (399, 29517), (400, 29514), (410, 29487), (415, 29472), (424, 29460), (448, 29409), (485, 29319), (490, 29307), (570, 29214), (585, 29175), (595, 29157), (607, 29142), (643, 29076), (660, 29043), (663, 29040), (710, 28938), (742, 28878), (778, 28794), (803, 28713), (835, 28629), (836, 28626), (840, 28617), (847, 28590), (855, 28560), (895, 28500), (906, 28461), (1009, 28245), (1010, 28242), (1013, 28221), (1066, 28086), (1073, 28074), (1079, 28065), (1082, 28062), (1115, 27969),

Gene: Jiawan_43 Start: 31526, Stop: 29733, Start Num: 228
Candidate Starts for Jiawan_43:
(Start: 228 @31526 has 960 MA's), (235, 31517), (263, 31475), (342, 31355), (343, 31352), (370, 31304), (400, 31244), (411, 31214), (415, 31202), (424, 31190), (490, 31037), (570, 30944), (643, 30806), (659, 30776), (733, 30617), (742, 30605), (764, 30578), (798, 30470), (803, 30449), (851, 30314), (855, 30296), (900, 30215), (919, 30173), (949, 30098), (990, 30023), (1009, 29981), (1042, 29879), (1066, 29822), (1073, 29810), (1079, 29801),

Gene: Jillium_60 Start: 54555, Stop: 52696, Start Num: 190
Candidate Starts for Jillium_60:
(Start: 173 @54579 has 3 MA's), (Start: 190 @54555 has 336 MA's), (Start: 222 @54531 has 3 MA's), (Start: 232 @54525 has 2 MA's), (261, 54483), (274, 54462), (336, 54348), (339, 54342), (355, 54312),

(390, 54252), (398, 54231), (416, 54177), (429, 54165), (436, 54147), (440, 54135), (487, 54030), (552, 53973), (569, 53937), (573, 53925), (583, 53901), (590, 53889), (601, 53871), (611, 53853), (622, 53835), (643, 53796), (648, 53787), (649, 53784), (651, 53781), (796, 53424), (804, 53391), (812, 53370), (848, 53277), (851, 53268), (877, 53205), (900, 53169), (901, 53166), (906, 53151), (939, 53073), (946, 53061), (953, 53040), (976, 53001), (1013, 52911), (1022, 52893), (1024, 52887), (1032, 52872), (1040, 52848), (1042, 52833), (1043, 52830), (1047, 52818), (1059, 52794), (1082, 52746), (1093, 52722),

Gene: Jiminy_61 Start: 54122, Stop: 52263, Start Num: 190
Candidate Starts for Jiminy_61:
(Start: 173 @54146 has 3 MA's), (Start: 190 @54122 has 336 MA's), (Start: 222 @54098 has 3 MA's), (Start: 232 @54092 has 2 MA's), (261, 54050), (274, 54029), (336, 53915), (339, 53909), (355, 53879), (390, 53819), (398, 53798), (416, 53744), (429, 53732), (436, 53714), (440, 53702), (487, 53597), (552, 53540), (569, 53504), (573, 53492), (583, 53468), (590, 53456), (601, 53438), (611, 53420), (622, 53402), (643, 53363), (648, 53354), (649, 53351), (651, 53348), (761, 53093), (796, 52991), (804, 52958), (812, 52937), (848, 52844), (851, 52835), (877, 52772), (900, 52736), (901, 52733), (906, 52718), (939, 52640), (946, 52628), (953, 52607), (976, 52568), (1013, 52478), (1022, 52460), (1024, 52454), (1032, 52439), (1040, 52415), (1042, 52400), (1043, 52397), (1047, 52385), (1059, 52361), (1066, 52340), (1082, 52313), (1093, 52289), (1098, 52274),

Gene: JimmyPG_10 Start: 8410, Stop: 6164, Start Num: 163
Candidate Starts for JimmyPG_10:
(Start: 163 @8410 has 29 MA's), (Start: 225 @8332 has 16 MA's), (235, 8320), (258, 8290), (261, 8284), (329, 8161), (330, 8158), (341, 8131), (356, 8101), (363, 8092), (402, 8008), (422, 7951), (464, 7843), (479, 7810), (511, 7711), (516, 7687), (570, 7531), (571, 7528), (605, 7483), (606, 7480), (682, 7345), (692, 7312), (711, 7267), (714, 7261), (723, 7237), (724, 7234), (753, 7153), (778, 7078), (844, 6868), (857, 6820), (858, 6817), (862, 6787), (875, 6745), (880, 6730), (898, 6667), (913, 6637), (1011, 6403), (1013, 6391), (1019, 6373), (1035, 6334), (1036, 6331), (1043, 6301), (1053, 6286), (1062, 6259), (1066, 6247), (1073, 6235),

Gene: Jingles_37 Start: 28487, Stop: 26637, Start Num: 297
Candidate Starts for Jingles_37:
(Start: 297 @28487 has 21 MA's), (360, 28364), (380, 28331), (431, 28220), (439, 28199), (442, 28193), (446, 28184), (460, 28142), (560, 27986), (582, 27932), (585, 27926), (586, 27923), (590, 27911), (607, 27881), (636, 27824), (706, 27677), (768, 27530), (847, 27320), (851, 27308), (855, 27290), (873, 27248), (879, 27233), (908, 27161), (989, 26972), (992, 26963), (1010, 26903), (1013, 26879), (1020, 26858), (1025, 26846), (1068, 26735),

Gene: Jiraiya_61 Start: 54320, Stop: 52461, Start Num: 190
Candidate Starts for Jiraiya_61:
(Start: 173 @54344 has 3 MA's), (Start: 190 @54320 has 336 MA's), (Start: 222 @54296 has 3 MA's), (Start: 232 @54290 has 2 MA's), (261, 54248), (274, 54227), (336, 54113), (339, 54107), (355, 54077), (390, 54017), (398, 53996), (416, 53942), (429, 53930), (436, 53912), (440, 53900), (487, 53795), (552, 53738), (569, 53702), (573, 53690), (585, 53663), (611, 53618), (643, 53561), (648, 53552), (649, 53549), (796, 53189), (804, 53156), (812, 53135), (848, 53042), (851, 53033), (877, 52970), (900, 52934), (901, 52931), (906, 52916), (939, 52838), (946, 52826), (953, 52805), (976, 52766), (1013, 52676), (1022, 52658), (1024, 52652), (1032, 52637), (1040, 52613), (1042, 52598), (1043, 52595), (1047, 52583), (1059, 52559), (1082, 52511), (1093, 52487), (1098, 52472),

Gene: Jobu08_47 Start: 31685, Stop: 29871, Start Num: 228
Candidate Starts for Jobu08_47:
(Start: 228 @31685 has 960 MA's), (257, 31646), (263, 31634), (360, 31481), (369, 31466), (399, 31409), (424, 31352), (430, 31343), (448, 31301), (465, 31250), (490, 31199), (570, 31106), (590,

31058), (595, 31049), (607, 31034), (626, 30995), (643, 30968), (659, 30938), (703, 30845), (709, 30833), (732, 30785), (742, 30770), (803, 30614), (836, 30527), (855, 30461), (871, 30422), (901, 30350), (919, 30311), (929, 30287), (935, 30269), (949, 30236), (958, 30209), (992, 30155), (1013, 30095), (1042, 30017), (1066, 29960), (1073, 29948), (1079, 29939),

Gene: Joemato_41 Start: 29704, Stop: 31569, Start Num: 228
Candidate Starts for Joemato_41:
(Start: 122 @29560 has 1 MA's), (Start: 135 @29587 has 1 MA's), (138, 29590), (153, 29617), (Start: 228 @29704 has 960 MA's), (261, 29752), (410, 30001), (435, 30049), (452, 30091), (572, 30298), (576, 30307), (622, 30397), (626, 30406), (633, 30421), (660, 30466), (686, 30511), (707, 30559), (733, 30616), (768, 30697), (795, 30784), (803, 30817), (815, 30847), (836, 30904), (855, 30970), (898, 31063), (929, 31135), (977, 31243), (1009, 31306), (1013, 31330), (1058, 31441), (1066, 31465), (1071, 31474),

Gene: JohnDoe_41 Start: 29700, Stop: 31565, Start Num: 228
Candidate Starts for JohnDoe_41:
(Start: 228 @29700 has 960 MA's), (261, 29748), (410, 29997), (435, 30045), (452, 30087), (572, 30294), (576, 30303), (622, 30393), (626, 30402), (633, 30417), (660, 30462), (686, 30507), (707, 30555), (733, 30612), (768, 30693), (795, 30780), (803, 30813), (815, 30843), (836, 30900), (855, 30966), (867, 30990), (898, 31059), (929, 31131), (977, 31239), (1009, 31302), (1013, 31326), (1058, 31437), (1065, 31458), (1066, 31461), (1071, 31470), (1090, 31506),

Gene: JohnThicc_45 Start: 30580, Stop: 32442, Start Num: 228
Candidate Starts for JohnThicc_45:
(Start: 228 @30580 has 960 MA's), (261, 30628), (366, 30793), (410, 30877), (442, 30943), (579, 31189), (626, 31279), (703, 31426), (707, 31432), (745, 31516), (803, 31690), (835, 31774), (845, 31807), (898, 31936), (901, 31945), (945, 32047), (1024, 32227), (1042, 32281), (1066, 32338),

Gene: Johnathan_41 Start: 28861, Stop: 30735, Start Num: 217
Candidate Starts for Johnathan_41:
(Start: 215 @28858 has 12 MA's), (Start: 217 @28861 has 68 MA's), (Start: 273 @28930 has 1 MA's), (Start: 285 @28951 has 1 MA's), (430, 29197), (448, 29239), (582, 29452), (626, 29533), (741, 29767), (784, 29890), (803, 29950), (806, 29956), (823, 30001), (830, 30016), (833, 30031), (845, 30067), (855, 30103), (898, 30196), (936, 30289), (973, 30367), (1009, 30439), (1018, 30478), (1038, 30520), (1041, 30538), (1058, 30574), (1066, 30598), (1079, 30619),

Gene: Jolie1_052 Start: 52581, Stop: 50743, Start Num: 184
Candidate Starts for Jolie1_052:
(49, 52887), (62, 52845), (68, 52830), (Start: 184 @52581 has 3 MA's), (249, 52524), (261, 52509), (304, 52443), (Start: 305 @52440 has 5 MA's), (390, 52287), (391, 52284), (399, 52263), (416, 52212), (419, 52206), (435, 52188), (452, 52146), (457, 52143), (467, 52113), (552, 52020), (569, 51984), (573, 51972), (601, 51918), (633, 51858), (648, 51834), (649, 51831), (685, 51765), (776, 51531), (780, 51513), (787, 51495), (804, 51438), (846, 51330), (848, 51324), (851, 51315), (875, 51252), (900, 51216), (901, 51213), (906, 51198), (939, 51120), (946, 51108), (953, 51087), (954, 51081), (976, 51048), (992, 51018), (1002, 51003), (1009, 50982), (1013, 50958), (1024, 50934), (1040, 50895), (1041, 50883), (1042, 50880), (1043, 50877), (1047, 50865), (1059, 50841), (1093, 50769), (1100, 50748),

Gene: JoongJeon_44 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for JoongJeon_44:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798,

30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: JordanFarm_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for JordanFarm_10:
(83, 8535), (93, 8499), (98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (515, 7680), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (781, 7005), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1037, 6270), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: Jordennis_45 Start: 29635, Stop: 27794, Start Num: 228
Candidate Starts for Jordennis_45:
(Start: 228 @29635 has 960 MA's), (360, 29431), (399, 29356), (400, 29353), (410, 29326), (415, 29311), (424, 29299), (448, 29248), (485, 29158), (490, 29146), (570, 29053), (585, 29014), (595, 28996), (607, 28981), (643, 28915), (660, 28882), (663, 28879), (710, 28777), (742, 28717), (778, 28633), (803, 28552), (835, 28468), (836, 28465), (840, 28456), (847, 28429), (851, 28417), (855, 28399), (895, 28339), (906, 28300), (1009, 28084), (1010, 28081), (1013, 28060), (1066, 27925), (1073, 27913), (1079, 27904), (1082, 27901), (1115, 27808),

Gene: Jorgensen_45 Start: 34588, Stop: 32762, Start Num: 228
Candidate Starts for Jorgensen_45:
(Start: 228 @34588 has 960 MA's), (366, 34375), (373, 34360), (399, 34312), (410, 34282), (418, 34261), (424, 34255), (430, 34246), (479, 34129), (490, 34102), (570, 34009), (576, 33994), (621, 33910), (622, 33907), (659, 33841), (680, 33811), (690, 33781), (709, 33736), (729, 33697), (803, 33517), (815, 33487), (821, 33469), (836, 33430), (855, 33364), (900, 33283), (901, 33280), (935, 33199), (1009, 33049), (1010, 33046), (1018, 33010), (1032, 32986), (1035, 32977), (1039, 32965), (1066, 32890), (1079, 32869),

Gene: Joselito_45 Start: 30776, Stop: 28989, Start Num: 228
Candidate Starts for Joselito_45:
(Start: 228 @30776 has 960 MA's), (360, 30572), (399, 30500), (410, 30470), (424, 30443), (572, 30191), (595, 30140), (643, 30059), (668, 30014), (733, 29873), (766, 29831), (778, 29786), (803, 29705), (823, 29654), (836, 29618), (855, 29552), (895, 29492), (897, 29480), (938, 29378), (949, 29354), (954, 29336), (992, 29273), (1007, 29246), (1009, 29237), (1013, 29213), (1066, 29078), (1073, 29066), (1079, 29057),

Gene: JoshKayV_46 Start: 31792, Stop: 30005, Start Num: 228
Candidate Starts for JoshKayV_46:
(Start: 228 @31792 has 960 MA's), (362, 31585), (366, 31579), (375, 31564), (384, 31549), (400, 31513), (410, 31486), (424, 31459), (435, 31438), (490, 31306), (570, 31213), (590, 31165), (595, 31156), (607, 31141), (643, 31075), (686, 30994), (707, 30946), (709, 30940), (742, 30877), (803, 30721), (835, 30637), (836, 30634), (855, 30568), (871, 30529), (895, 30508), (924, 30433), (929, 30421), (958, 30343), (982, 30307), (992, 30289), (1009, 30253), (1013, 30229), (1042, 30151), (1066, 30094), (1073, 30082), (1079, 30073),

Gene: Journey13_40 Start: 30167, Stop: 28380, Start Num: 228
Candidate Starts for Journey13_40:
(Start: 228 @30167 has 960 MA's), (360, 29963), (362, 29960), (366, 29954), (384, 29924), (396, 29903), (398, 29894), (399, 29891), (410, 29861), (424, 29834), (435, 29813), (488, 29687), (490, 29681), (570, 29588), (573, 29579), (590, 29540), (607, 29516), (643, 29450), (696, 29342), (707, 29321), (803, 29096), (823, 29045), (840, 29000), (847, 28973), (855, 28943), (871, 28904), (895,

28883), (924, 28808), (931, 28790), (949, 28745), (958, 28718), (982, 28682), (992, 28664), (1009, 28628), (1013, 28604), (1066, 28469), (1073, 28457), (1079, 28448),

Gene: Jovita_43 Start: 29600, Stop: 31474, Start Num: 217
Candidate Starts for Jovita_43:
(Start: 215 @29597 has 12 MA's), (Start: 217 @29600 has 68 MA's), (Start: 273 @29669 has 1 MA's), (Start: 285 @29690 has 1 MA's), (399, 29870), (448, 29978), (626, 30272), (696, 30407), (741, 30506), (784, 30629), (803, 30689), (806, 30695), (823, 30740), (830, 30755), (833, 30770), (845, 30806), (855, 30842), (898, 30935), (936, 31028), (973, 31106), (975, 31109), (1009, 31178), (1010, 31181), (1018, 31217), (1038, 31259), (1041, 31277), (1066, 31337), (1079, 31358),

Gene: Jovo_38 Start: 30627, Stop: 28783, Start Num: 228
Candidate Starts for Jovo_38:
(Start: 228 @30627 has 960 MA's), (263, 30576), (304, 30516), (343, 30453), (360, 30423), (362, 30420), (396, 30363), (399, 30351), (410, 30321), (424, 30294), (465, 30192), (473, 30177), (490, 30141), (556, 30081), (570, 30045), (590, 29997), (637, 29913), (643, 29907), (685, 29835), (696, 29802), (703, 29787), (709, 29775), (761, 29676), (803, 29541), (815, 29511), (821, 29493), (823, 29490), (836, 29454), (840, 29445), (845, 29424), (848, 29415), (855, 29388), (856, 29385), (895, 29328), (900, 29307), (949, 29190), (977, 29136), (982, 29127), (992, 29109), (1022, 29031), (1041, 28974), (1058, 28938), (1066, 28914), (1073, 28902),

Gene: JoyceMaria_53 Start: 53933, Stop: 52110, Start Num: 182
Candidate Starts for JoyceMaria_53:
(Start: 163 @53951 has 29 MA's), (Start: 182 @53933 has 33 MA's), (Start: 232 @53909 has 2 MA's), (249, 53882), (261, 53867), (274, 53846), (324, 53759), (386, 53654), (398, 53627), (402, 53612), (436, 53546), (449, 53516), (452, 53507), (457, 53504), (458, 53501), (467, 53474), (552, 53381), (560, 53363), (569, 53345), (573, 53333), (585, 53306), (622, 53243), (643, 53204), (648, 53195), (649, 53192), (664, 53162), (685, 53126), (775, 52901), (776, 52898), (787, 52862), (796, 52838), (804, 52805), (846, 52697), (848, 52691), (851, 52682), (900, 52583), (901, 52580), (906, 52565), (939, 52487), (946, 52475), (953, 52454), (955, 52445), (976, 52415), (1007, 52358), (1013, 52325), (1024, 52301), (1040, 52262), (1043, 52244), (1047, 52232), (1059, 52208), (1078, 52166), (1082, 52160), (1093, 52136),

Gene: Jsquared_43 Start: 30314, Stop: 28527, Start Num: 227
Candidate Starts for Jsquared_43:
(125, 30455), (Start: 227 @30314 has 33 MA's), (360, 30110), (362, 30107), (366, 30101), (375, 30086), (384, 30071), (398, 30041), (399, 30038), (410, 30008), (424, 29981), (435, 29960), (448, 29930), (490, 29828), (570, 29735), (590, 29687), (595, 29678), (607, 29663), (643, 29597), (686, 29516), (707, 29468), (729, 29423), (803, 29243), (821, 29195), (823, 29192), (836, 29156), (855, 29090), (871, 29051), (895, 29030), (924, 28955), (931, 28937), (949, 28892), (958, 28865), (982, 28829), (992, 28811), (1009, 28775), (1013, 28751), (1066, 28616), (1073, 28604), (1079, 28595), (1082, 28592),

Gene: Jstan_41 Start: 30355, Stop: 32220, Start Num: 228
Candidate Starts for Jstan_41:
(Start: 228 @30355 has 960 MA's), (261, 30403), (383, 30586), (386, 30592), (410, 30652), (418, 30673), (452, 30742), (576, 30958), (622, 31048), (626, 31057), (633, 31072), (660, 31117), (707, 31210), (768, 31348), (803, 31468), (815, 31498), (836, 31555), (853, 31612), (855, 31621), (867, 31645), (898, 31714), (929, 31786), (932, 31795), (977, 31894), (1009, 31957), (1066, 32116), (1071, 32125),

Gene: Juanyo_37 Start: 28491, Stop: 26590, Start Num: 296
Candidate Starts for Juanyo_37:

(Start: 296 @28491 has 13 MA's), (346, 28392), (360, 28368), (369, 28353), (378, 28338), (382, 28332), (396, 28305), (402, 28281), (429, 28230), (439, 28203), (442, 28197), (460, 28146), (474, 28107), (502, 28047), (560, 27978), (582, 27921), (586, 27912), (590, 27900), (607, 27870), (636, 27813), (706, 27666), (770, 27510), (855, 27243), (873, 27201), (889, 27171), (897, 27150), (908, 27114), (989, 26925), (992, 26916), (1010, 26856), (1013, 26832), (1017, 26820), (1025, 26799), (1028, 26793), (1068, 26688),

Gene: Juicer_40 Start: 29369, Stop: 27471, Start Num: 296
Candidate Starts for Juicer_40:
(Start: 296 @29369 has 13 MA's), (369, 29231), (378, 29216), (382, 29210), (402, 29159), (431, 29102), (439, 29081), (442, 29075), (459, 29027), (460, 29024), (502, 28925), (552, 28877), (582, 28802), (586, 28793), (590, 28781), (607, 28751), (618, 28730), (624, 28715), (659, 28649), (726, 28502), (752, 28442), (758, 28427), (768, 28400), (845, 28160), (855, 28124), (873, 28082), (889, 28052), (908, 27995), (965, 27851), (974, 27836), (992, 27797), (997, 27776), (1013, 27713), (1025, 27680), (1044, 27629), (1046, 27623), (1068, 27569),

Gene: JuliaChild_45 Start: 34674, Stop: 32845, Start Num: 228
Candidate Starts for JuliaChild_45:
(Start: 228 @34674 has 960 MA's), (366, 34461), (373, 34446), (399, 34398), (410, 34368), (418, 34347), (424, 34341), (430, 34332), (479, 34215), (490, 34188), (570, 34095), (576, 34080), (583, 34059), (621, 33996), (622, 33993), (659, 33927), (680, 33897), (690, 33867), (709, 33822), (729, 33783), (803, 33603), (821, 33555), (840, 33507), (851, 33468), (855, 33450), (871, 33411), (895, 33390), (900, 33369), (905, 33354), (955, 33231), (1036, 33060), (1041, 33036), (1062, 32988), (1066, 32976), (1079, 32955), (1083, 32949), (1102, 32901), (1109, 32886),

Gene: JuneStar_42 Start: 31105, Stop: 33111, Start Num: 122
Candidate Starts for JuneStar_42:
(105, 31072), (Start: 122 @31105 has 1 MA's), (Start: 135 @31132 has 1 MA's), (138, 31135), (153, 31162), (Start: 228 @31246 has 960 MA's), (261, 31294), (410, 31543), (452, 31633), (462, 31663), (572, 31840), (576, 31849), (626, 31948), (633, 31963), (643, 31975), (707, 32101), (768, 32239), (803, 32359), (836, 32446), (855, 32512), (898, 32605), (1013, 32872), (1036, 32923), (1066, 33007),

Gene: Junimo_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Junimo_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: JustBecause_62 Start: 44100, Stop: 42133, Start Num: 294
Candidate Starts for JustBecause_62:
(Start: 294 @44100 has 13 MA's), (343, 44022), (352, 44004), (353, 44001), (397, 43932), (430, 43830), (450, 43782), (482, 43704), (501, 43656), (525, 43551), (536, 43512), (540, 43500), (554, 43473), (569, 43437), (603, 43365), (625, 43320), (684, 43209), (709, 43137), (762, 42999), (771, 42972), (780, 42939), (793, 42909), (811, 42849), (826, 42804), (848, 42738), (856, 42708), (861, 42687), (864, 42681), (939, 42519), (948, 42501), (949, 42498), (1009, 42378), (1024, 42330), (1030, 42318), (1034, 42309), (1039, 42297), (1042, 42279), (1045, 42270), (1053, 42255), (1064, 42231),

Gene: KADY_48 Start: 31884, Stop: 30070, Start Num: 228
Candidate Starts for KADY_48:
(Start: 228 @31884 has 960 MA's), (257, 31845), (263, 31833), (360, 31680), (369, 31665), (399, 31608), (424, 31551), (430, 31542), (448, 31500), (465, 31449), (490, 31398), (552, 31344), (570,

31305), (590, 31257), (607, 31233), (626, 31194), (643, 31167), (659, 31137), (703, 31044), (709, 31032), (732, 30984), (742, 30969), (803, 30813), (823, 30762), (835, 30729), (836, 30726), (855, 30660), (871, 30621), (901, 30549), (919, 30510), (929, 30486), (935, 30468), (949, 30435), (992, 30354), (1013, 30294), (1045, 30207), (1066, 30159), (1073, 30147), (1079, 30138), (1082, 30135),

Gene: KBG_46 Start: 35895, Stop: 34069, Start Num: 228
Candidate Starts for KBG_46:
(Start: 228 @35895 has 960 MA's), (366, 35682), (373, 35667), (399, 35619), (410, 35589), (414, 35577), (418, 35568), (424, 35562), (430, 35553), (479, 35436), (490, 35409), (570, 35316), (576, 35301), (590, 35268), (621, 35217), (622, 35214), (659, 35148), (680, 35118), (690, 35088), (709, 35043), (729, 35004), (803, 34824), (815, 34794), (821, 34776), (823, 34773), (836, 34737), (855, 34671), (900, 34590), (901, 34587), (935, 34506), (1009, 34356), (1010, 34353), (1018, 34317), (1032, 34293), (1035, 34284), (1039, 34272), (1045, 34245), (1066, 34197), (1079, 34176),

Gene: KFPoly_44 Start: 31564, Stop: 29738, Start Num: 228
Candidate Starts for KFPoly_44:
(Start: 228 @31564 has 960 MA's), (Start: 241 @31543 has 3 MA's), (263, 31513), (278, 31483), (384, 31321), (394, 31303), (424, 31231), (430, 31222), (480, 31102), (490, 31078), (570, 30985), (592, 30937), (607, 30916), (626, 30877), (696, 30745), (707, 30724), (729, 30679), (733, 30667), (798, 30514), (803, 30493), (847, 30370), (855, 30340), (871, 30301), (900, 30235), (901, 30232), (906, 30217), (919, 30193), (929, 30169), (1013, 29962), (1066, 29827), (1073, 29815), (1079, 29806),

Gene: KLucky39_59 Start: 53611, Stop: 51752, Start Num: 190
Candidate Starts for KLucky39_59:
(Start: 173 @53635 has 3 MA's), (Start: 190 @53611 has 336 MA's), (Start: 222 @53587 has 3 MA's), (Start: 232 @53581 has 2 MA's), (261, 53539), (274, 53518), (336, 53404), (339, 53398), (355, 53368), (390, 53308), (398, 53287), (416, 53233), (429, 53221), (436, 53203), (440, 53191), (487, 53086), (552, 53029), (569, 52993), (573, 52981), (585, 52954), (601, 52927), (611, 52909), (622, 52891), (643, 52852), (648, 52843), (649, 52840), (761, 52582), (796, 52480), (804, 52447), (812, 52426), (848, 52333), (851, 52324), (877, 52261), (900, 52225), (901, 52222), (906, 52207), (939, 52129), (946, 52117), (953, 52096), (976, 52057), (1013, 51967), (1022, 51949), (1024, 51943), (1032, 51928), (1040, 51904), (1042, 51889), (1043, 51886), (1047, 51874), (1059, 51850), (1082, 51802), (1093, 51778),

Gene: KSSJEB_43 Start: 34167, Stop: 32338, Start Num: 228
Candidate Starts for KSSJEB_43:
(Start: 228 @34167 has 960 MA's), (366, 33954), (373, 33939), (399, 33891), (410, 33861), (418, 33840), (424, 33834), (430, 33825), (479, 33708), (490, 33681), (570, 33588), (576, 33573), (590, 33540), (621, 33489), (622, 33486), (659, 33420), (690, 33360), (709, 33315), (729, 33276), (803, 33096), (821, 33048), (840, 33000), (851, 32961), (855, 32943), (871, 32904), (895, 32883), (900, 32862), (905, 32847), (955, 32724), (1036, 32553), (1041, 32529), (1062, 32481), (1066, 32469), (1079, 32448), (1083, 32442), (1102, 32394), (1109, 32379),

Gene: KSunshine22_93 Start: 75419, Stop: 77137, Start Num: 285
Candidate Starts for KSunshine22_93:
(Start: 238 @75344 has 11 MA's), (261, 75377), (Start: 273 @75398 has 1 MA's), (Start: 276 @75407 has 2 MA's), (Start: 285 @75419 has 1 MA's), (429, 75656), (439, 75683), (442, 75689), (489, 75782), (544, 75824), (613, 75941), (626, 75968), (629, 75974), (633, 75983), (666, 76037), (682, 76061), (729, 76169), (737, 76190), (755, 76217), (774, 76265), (783, 76298), (798, 76337), (803, 76358), (806, 76364), (845, 76481), (871, 76568), (898, 76631), (902, 76643), (919, 76679), (932, 76712), (953, 76766), (960, 76784), (1002, 76868), (1009, 76889), (1014, 76916), (1036, 76964), (1038, 76970), (1041, 76988), (1045, 77000), (1049, 77012), (1053, 77015), (1066, 77048), (1083, 77075), (1094, 77099),

Gene: Kachowdy_45 Start: 31435, Stop: 29597, Start Num: 228
Candidate Starts for Kachowdy_45:
(171, 31507), (Start: 228 @31435 has 960 MA's), (263, 31384), (360, 31231), (396, 31171), (399, 31159), (424, 31102), (430, 31093), (435, 31081), (480, 30973), (490, 30949), (570, 30853), (592, 30805), (626, 30745), (663, 30682), (696, 30613), (707, 30592), (742, 30523), (746, 30517), (767, 30478), (803, 30355), (836, 30268), (847, 30232), (855, 30202), (869, 30172), (901, 30091), (919, 30052), (929, 30028), (935, 30010), (992, 29881), (1013, 29821), (1066, 29686), (1073, 29674), (1079, 29665),

Gene: Kahve_60 Start: 54557, Stop: 52698, Start Num: 190
Candidate Starts for Kahve_60:
(Start: 173 @54581 has 3 MA's), (Start: 190 @54557 has 336 MA's), (Start: 222 @54533 has 3 MA's), (Start: 232 @54527 has 2 MA's), (261, 54485), (274, 54464), (336, 54350), (339, 54344), (355, 54314), (390, 54254), (398, 54233), (416, 54179), (429, 54167), (436, 54149), (440, 54137), (487, 54032), (552, 53975), (569, 53939), (573, 53927), (585, 53900), (601, 53873), (611, 53855), (622, 53837), (643, 53798), (648, 53789), (649, 53786), (761, 53528), (796, 53426), (804, 53393), (812, 53372), (848, 53279), (851, 53270), (877, 53207), (900, 53171), (901, 53168), (906, 53153), (939, 53075), (946, 53063), (953, 53042), (976, 53003), (1013, 52913), (1022, 52895), (1024, 52889), (1032, 52874), (1040, 52850), (1042, 52835), (1043, 52832), (1047, 52820), (1059, 52796), (1066, 52775), (1082, 52748), (1093, 52724),

Gene: Kailash_61 Start: 54637, Stop: 52778, Start Num: 190
Candidate Starts for Kailash_61:
(Start: 173 @54661 has 3 MA's), (Start: 190 @54637 has 336 MA's), (Start: 222 @54613 has 3 MA's), (Start: 232 @54607 has 2 MA's), (261, 54565), (274, 54544), (336, 54430), (339, 54424), (355, 54394), (390, 54334), (398, 54313), (416, 54259), (429, 54247), (436, 54229), (440, 54217), (487, 54112), (552, 54055), (569, 54019), (573, 54007), (583, 53983), (590, 53971), (601, 53953), (611, 53935), (622, 53917), (643, 53878), (648, 53869), (649, 53866), (651, 53863), (796, 53506), (804, 53473), (812, 53452), (848, 53359), (851, 53350), (877, 53287), (900, 53251), (901, 53248), (906, 53233), (939, 53155), (946, 53143), (953, 53122), (976, 53083), (1013, 52993), (1022, 52975), (1024, 52969), (1032, 52954), (1040, 52930), (1042, 52915), (1043, 52912), (1047, 52900), (1059, 52876), (1082, 52828), (1093, 52804),

Gene: Kalb97_49 Start: 31752, Stop: 29938, Start Num: 228
Candidate Starts for Kalb97_49:
(Start: 228 @31752 has 960 MA's), (257, 31713), (263, 31701), (360, 31548), (369, 31533), (399, 31476), (424, 31419), (430, 31410), (448, 31368), (465, 31317), (490, 31266), (570, 31173), (590, 31125), (607, 31101), (626, 31062), (643, 31035), (659, 31005), (703, 30912), (709, 30900), (732, 30852), (742, 30837), (803, 30681), (823, 30630), (835, 30597), (836, 30594), (855, 30528), (871, 30489), (901, 30417), (919, 30378), (929, 30354), (935, 30336), (949, 30303), (992, 30222), (1013, 30162), (1022, 30144), (1042, 30084), (1045, 30075), (1066, 30027), (1073, 30015), (1079, 30006),

Gene: Kale_38 Start: 28634, Stop: 26769, Start Num: 301
Candidate Starts for Kale_38:
(Start: 241 @28721 has 3 MA's), (Start: 301 @28634 has 153 MA's), (Start: 305 @28625 has 5 MA's), (353, 28520), (360, 28511), (378, 28481), (380, 28478), (435, 28358), (439, 28346), (442, 28340), (483, 28235), (494, 28208), (582, 28067), (585, 28061), (586, 28058), (590, 28046), (606, 28019), (607, 28016), (614, 28001), (618, 27995), (621, 27989), (638, 27956), (726, 27767), (847, 27452), (850, 27443), (851, 27440), (855, 27422), (873, 27380), (877, 27374), (888, 27350), (908, 27293), (974, 27134), (989, 27104), (992, 27095), (1010, 27035), (1013, 27011), (1028, 26972), (1040, 26939), (1044, 26927), (1068, 26867),

Gene: Kaleb_57 Start: 52637, Stop: 50808, Start Num: 190
Candidate Starts for Kaleb_57:
(Start: 190 @52637 has 336 MA's), (Start: 232 @52610 has 2 MA's), (Start: 255 @52580 has 8 MA's), (261, 52568), (Start: 276 @52541 has 2 MA's), (278, 52538), (284, 52529), (307, 52511), (362, 52415), (390, 52364), (399, 52340), (467, 52178), (482, 52154), (487, 52142), (552, 52085), (569, 52049), (573, 52037), (583, 52013), (630, 51929), (648, 51899), (649, 51896), (664, 51866), (727, 51722), (755, 51656), (775, 51605), (780, 51584), (787, 51566), (804, 51509), (840, 51425), (848, 51395), (851, 51386), (875, 51320), (897, 51293), (900, 51284), (903, 51275), (906, 51266), (919, 51242), (939, 51188), (946, 51176), (953, 51155), (992, 51086), (1013, 51026), (1022, 51008), (1036, 50975), (1040, 50963), (1042, 50948), (1043, 50945), (1047, 50933), (1059, 50909), (1060, 50906), (1082, 50858), (1083, 50855), (1093, 50834), (1100, 50813),

Gene: Kalimba_38 Start: 27589, Stop: 29571, Start Num: 227
Candidate Starts for Kalimba_38:
(Start: 227 @27589 has 33 MA's), (343, 27763), (386, 27826), (400, 27859), (435, 27934), (544, 28162), (626, 28336), (707, 28492), (768, 28630), (795, 28717), (803, 28750), (815, 28780), (836, 28837), (855, 28903), (898, 28996), (1013, 29263), (1024, 29287), (1066, 29398), (1114, 29506),

Gene: Kalnoky_49 Start: 31750, Stop: 29936, Start Num: 228
Candidate Starts for Kalnoky_49:
(Start: 228 @31750 has 960 MA's), (257, 31711), (263, 31699), (360, 31546), (369, 31531), (399, 31474), (424, 31417), (430, 31408), (448, 31366), (465, 31315), (490, 31264), (570, 31171), (590, 31123), (607, 31099), (626, 31060), (643, 31033), (659, 31003), (703, 30910), (709, 30898), (732, 30850), (742, 30835), (803, 30679), (823, 30628), (835, 30595), (836, 30592), (855, 30526), (871, 30487), (901, 30415), (919, 30376), (929, 30352), (935, 30334), (949, 30301), (992, 30220), (1013, 30160), (1022, 30142), (1042, 30082), (1045, 30073), (1066, 30025), (1073, 30013), (1079, 30004),

Gene: Kalpine_44 Start: 31973, Stop: 30186, Start Num: 228
Candidate Starts for Kalpine_44:
(Start: 228 @31973 has 960 MA's), (362, 31766), (366, 31760), (384, 31730), (398, 31700), (400, 31694), (410, 31667), (424, 31640), (435, 31619), (448, 31589), (490, 31487), (570, 31394), (590, 31346), (595, 31337), (607, 31322), (643, 31256), (686, 31175), (707, 31127), (781, 30971), (803, 30902), (823, 30851), (835, 30818), (836, 30815), (855, 30749), (871, 30710), (895, 30689), (924, 30614), (929, 30602), (931, 30596), (982, 30488), (1009, 30434), (1013, 30410), (1038, 30353), (1042, 30332), (1066, 30275), (1073, 30263),

Gene: Kamdara_40 Start: 29926, Stop: 31797, Start Num: 217
Candidate Starts for Kamdara_40:
(Start: 217 @29926 has 68 MA's), (346, 30109), (369, 30148), (386, 30166), (414, 30238), (430, 30262), (435, 30274), (436, 30277), (473, 30358), (602, 30550), (626, 30598), (681, 30688), (741, 30829), (784, 30952), (803, 31012), (830, 31078), (833, 31093), (845, 31129), (848, 31138), (855, 31165), (898, 31258), (936, 31351), (973, 31429), (1009, 31501), (1018, 31540), (1038, 31582), (1058, 31636), (1066, 31660), (1079, 31681), (1090, 31705),

Gene: Kamiyu_58 Start: 53644, Stop: 51827, Start Num: 230
Candidate Starts for Kamiyu_58:
(110, 53827), (Start: 230 @53644 has 52 MA's), (249, 53614), (366, 53434), (435, 53281), (439, 53269), (452, 53239), (458, 53233), (487, 53170), (489, 53164), (552, 53113), (569, 53077), (590, 53029), (649, 52924), (694, 52828), (722, 52777), (775, 52633), (787, 52594), (797, 52564), (804, 52537), (810, 52525), (846, 52429), (848, 52423), (851, 52414), (854, 52402), (883, 52330), (900, 52300), (906, 52282), (912, 52273), (939, 52204), (946, 52192), (953, 52171), (992, 52102), (1002, 52087), (1010, 52063), (1013, 52042), (1024, 52018), (1040, 51979), (1043, 51961), (1047, 51949), (1054, 51937), (1059, 51925), (1078, 51883), (1093, 51853),

Gene: Kampy_45 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Kampy_45:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Kanely_45 Start: 34951, Stop: 33125, Start Num: 228
Candidate Starts for Kanely_45:
(Start: 228 @34951 has 960 MA's), (366, 34738), (399, 34675), (410, 34645), (418, 34624), (424, 34618), (430, 34609), (479, 34492), (490, 34465), (570, 34372), (576, 34357), (621, 34273), (622, 34270), (659, 34204), (680, 34174), (690, 34144), (709, 34099), (729, 34060), (803, 33880), (821, 33832), (836, 33793), (855, 33727), (871, 33688), (895, 33667), (900, 33646), (906, 33628), (935, 33562), (1009, 33412), (1010, 33409), (1018, 33373), (1032, 33349), (1035, 33340), (1039, 33328), (1066, 33253), (1079, 33232),

Gene: KannH_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for KannH_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: KarasumaRum_58 Start: 54598, Stop: 52751, Start Num: 174
Candidate Starts for KarasumaRum_58:
(21, 55093), (22, 55087), (26, 55036), (29, 55018), (35, 54961), (72, 54817), (129, 54664), (174, 54598), (231, 54550), (249, 54523), (283, 54472), (307, 54451), (336, 54397), (364, 54352), (391, 54301), (436, 54202), (457, 54160), (472, 54124), (487, 54094), (569, 54001), (573, 53989), (583, 53965), (590, 53953), (601, 53935), (635, 53872), (649, 53848), (701, 53743), (748, 53620), (776, 53554), (780, 53536), (797, 53488), (804, 53461), (846, 53353), (848, 53347), (851, 53338), (856, 53317), (883, 53254), (901, 53221), (906, 53206), (933, 53146), (939, 53128), (946, 53116), (953, 53095), (955, 53086), (957, 53083), (965, 53071), (1013, 52966), (1022, 52948), (1024, 52942), (1040, 52903), (1042, 52888), (1043, 52885), (1054, 52861), (1059, 52849), (1060, 52846), (1083, 52798), (1093, 52777),

Gene: Karn_61 Start: 54282, Stop: 52423, Start Num: 190
Candidate Starts for Karn_61:
(Start: 173 @54306 has 3 MA's), (Start: 190 @54282 has 336 MA's), (Start: 222 @54258 has 3 MA's), (Start: 232 @54252 has 2 MA's), (261, 54210), (274, 54189), (336, 54075), (339, 54069), (355, 54039), (390, 53979), (398, 53958), (416, 53904), (429, 53892), (436, 53874), (440, 53862), (487, 53757), (552, 53700), (569, 53664), (573, 53652), (583, 53628), (590, 53616), (601, 53598), (611, 53580), (622, 53562), (643, 53523), (648, 53514), (649, 53511), (651, 53508), (796, 53151), (804, 53118), (812, 53097), (848, 53004), (851, 52995), (877, 52932), (900, 52896), (901, 52893), (906, 52878), (939, 52800), (946, 52788), (953, 52767), (976, 52728), (1013, 52638), (1022, 52620), (1024, 52614), (1032, 52599), (1040, 52575), (1042, 52560), (1043, 52557), (1047, 52545), (1059, 52521), (1066, 52500), (1082, 52473), (1093, 52449), (1098, 52434),

Gene: KatChan_40 Start: 28364, Stop: 26472, Start Num: 296

Candidate Starts for KatChan_40:
(Start: 241 @28454 has 3 MA's), (Start: 296 @28364 has 13 MA's), (Start: 305 @28355 has 5 MA's), (337, 28298), (346, 28268), (369, 28229), (378, 28214), (382, 28208), (391, 28190), (402, 28157), (439, 28079), (442, 28073), (460, 28022), (474, 27983), (552, 27872), (586, 27788), (590, 27776), (607, 27746), (614, 27731), (618, 27725), (621, 27719), (623, 27713), (626, 27707), (770, 27392), (833, 27197), (855, 27125), (873, 27083), (889, 27053), (897, 27032), (908, 26996), (934, 26924), (989, 26807), (992, 26798), (1010, 26738), (1013, 26714), (1017, 26702), (1033, 26666), (1068, 26570),

Gene: Katalie136_44 Start: 31522, Stop: 29693, Start Num: 228
Candidate Starts for Katalie136_44:
(Start: 228 @31522 has 960 MA's), (263, 31471), (278, 31441), (384, 31279), (394, 31261), (399, 31246), (424, 31189), (430, 31180), (480, 31060), (490, 31036), (544, 30994), (570, 30943), (592, 30895), (607, 30874), (626, 30835), (654, 30790), (657, 30784), (696, 30703), (707, 30682), (729, 30637), (798, 30472), (803, 30451), (855, 30298), (871, 30259), (901, 30187), (906, 30172), (919, 30148), (926, 30130), (929, 30124), (931, 30118), (1013, 29917), (1066, 29782), (1073, 29770), (1079, 29761),

Gene: Kate33_43 Start: 29550, Stop: 31424, Start Num: 217
Candidate Starts for Kate33_43:
(Start: 215 @29547 has 12 MA's), (Start: 217 @29550 has 68 MA's), (Start: 273 @29619 has 1 MA's), (Start: 285 @29640 has 1 MA's), (430, 29886), (473, 29982), (570, 30108), (626, 30222), (741, 30456), (783, 30576), (784, 30579), (803, 30639), (806, 30645), (823, 30690), (830, 30705), (833, 30720), (845, 30756), (855, 30792), (898, 30885), (973, 31056), (975, 31059), (1009, 31128), (1018, 31167), (1038, 31209), (1041, 31227), (1058, 31263), (1066, 31287), (1079, 31308),

Gene: KatherineG_48 Start: 30182, Stop: 28392, Start Num: 228
Candidate Starts for KatherineG_48:
(Start: 228 @30182 has 960 MA's), (343, 30008), (399, 29903), (400, 29900), (410, 29873), (424, 29846), (448, 29795), (490, 29693), (570, 29600), (587, 29555), (590, 29552), (595, 29543), (686, 29381), (696, 29354), (707, 29333), (709, 29327), (768, 29228), (778, 29189), (796, 29138), (803, 29108), (823, 29057), (835, 29024), (845, 28991), (847, 28985), (855, 28955), (895, 28895), (900, 28874), (919, 28832), (930, 28805), (935, 28790), (977, 28703), (1009, 28640), (1010, 28637), (1066, 28481), (1073, 28469), (1082, 28457),

Gene: Katniss_61 Start: 53995, Stop: 52136, Start Num: 190
Candidate Starts for Katniss_61:
(Start: 173 @54019 has 3 MA's), (Start: 190 @53995 has 336 MA's), (Start: 222 @53971 has 3 MA's), (Start: 232 @53965 has 2 MA's), (261, 53923), (274, 53902), (336, 53788), (339, 53782), (355, 53752), (390, 53692), (398, 53671), (416, 53617), (429, 53605), (436, 53587), (440, 53575), (487, 53470), (552, 53413), (569, 53377), (573, 53365), (585, 53338), (601, 53311), (611, 53293), (622, 53275), (643, 53236), (648, 53227), (649, 53224), (651, 53221), (761, 52966), (796, 52864), (804, 52831), (812, 52810), (848, 52717), (851, 52708), (877, 52645), (900, 52609), (901, 52606), (906, 52591), (939, 52513), (946, 52501), (953, 52480), (976, 52441), (1013, 52351), (1022, 52333), (1024, 52327), (1032, 52312), (1040, 52288), (1042, 52273), (1043, 52270), (1047, 52258), (1059, 52234), (1082, 52186), (1093, 52162),

Gene: Katzastrophic_41 Start: 29917, Stop: 31788, Start Num: 217
Candidate Starts for Katzastrophic_41:
(Start: 217 @29917 has 68 MA's), (Start: 273 @29986 has 1 MA's), (342, 30091), (346, 30100), (430, 30253), (473, 30349), (479, 30358), (626, 30589), (633, 30604), (686, 30697), (729, 30787), (803, 31003), (823, 31054), (830, 31069), (845, 31120), (855, 31156), (898, 31249), (929, 31321), (973, 31420), (1009, 31492), (1013, 31516), (1038, 31573), (1058, 31627), (1066, 31651), (1079, 31672),

Gene: Kauala_37 Start: 28473, Stop: 26623, Start Num: 297
Candidate Starts for Kauala_37:
(Start: 297 @28473 has 21 MA's), (345, 28377), (360, 28350), (380, 28317), (431, 28206), (439, 28185), (442, 28179), (446, 28170), (458, 28134), (460, 28128), (560, 27972), (582, 27918), (586, 27909), (590, 27897), (607, 27867), (636, 27810), (706, 27663), (768, 27516), (847, 27306), (851, 27294), (855, 27276), (873, 27234), (879, 27219), (908, 27147), (989, 26958), (992, 26949), (1010, 26889), (1013, 26865), (1020, 26844), (1025, 26832), (1068, 26721),

Gene: Kavo_36 Start: 27151, Stop: 25253, Start Num: 297
Candidate Starts for Kavo_36:
(18, 27889), (19, 27883), (54, 27628), (268, 27202), (Start: 297 @27151 has 21 MA's), (332, 27088), (353, 27037), (378, 26998), (402, 26941), (431, 26884), (435, 26875), (439, 26863), (442, 26857), (460, 26806), (474, 26767), (533, 26704), (552, 26659), (582, 26584), (586, 26575), (590, 26563), (607, 26533), (618, 26512), (623, 26500), (636, 26476), (708, 26326), (800, 26065), (840, 25963), (845, 25942), (855, 25906), (870, 25870), (873, 25864), (908, 25777), (917, 25750), (974, 25618), (992, 25579), (997, 25558), (1010, 25519), (1013, 25495), (1015, 25489), (1025, 25462), (1068, 25351),

Gene: KayaCho_51 Start: 52386, Stop: 50545, Start Num: 184
Candidate Starts for KayaCho_51:
(107, 52506), (Start: 184 @52386 has 3 MA's), (249, 52329), (261, 52314), (362, 52140), (384, 52098), (390, 52089), (391, 52086), (399, 52065), (416, 52014), (419, 52008), (435, 51990), (449, 51957), (452, 51948), (457, 51945), (458, 51942), (467, 51915), (552, 51822), (569, 51786), (573, 51774), (648, 51636), (649, 51633), (692, 51543), (750, 51402), (771, 51348), (776, 51333), (780, 51315), (787, 51297), (796, 51273), (804, 51240), (846, 51132), (848, 51126), (851, 51117), (875, 51054), (885, 51039), (897, 51027), (900, 51018), (906, 51000), (915, 50985), (939, 50922), (946, 50910), (953, 50889), (954, 50883), (976, 50850), (992, 50820), (1002, 50805), (1013, 50760), (1022, 50742), (1024, 50736), (1040, 50697), (1041, 50685), (1042, 50682), (1043, 50679), (1047, 50667), (1059, 50643), (1093, 50571),

Gene: Kaylissa_42 Start: 30090, Stop: 31955, Start Num: 228
Candidate Starts for Kaylissa_42:
(Start: 228 @30090 has 960 MA's), (261, 30138), (317, 30228), (321, 30234), (410, 30387), (435, 30435), (452, 30477), (572, 30684), (576, 30693), (622, 30783), (626, 30792), (633, 30807), (660, 30852), (686, 30897), (707, 30945), (733, 31002), (768, 31083), (795, 31170), (803, 31203), (815, 31233), (836, 31290), (855, 31356), (867, 31380), (898, 31449), (929, 31521), (977, 31629), (1009, 31692), (1013, 31716), (1058, 31827), (1066, 31851), (1071, 31860),

Gene: Kazan_46 Start: 29633, Stop: 27792, Start Num: 228
Candidate Starts for Kazan_46:
(Start: 228 @29633 has 960 MA's), (360, 29429), (399, 29354), (400, 29351), (410, 29324), (415, 29309), (424, 29297), (448, 29246), (485, 29156), (490, 29144), (570, 29051), (585, 29012), (595, 28994), (607, 28979), (643, 28913), (660, 28880), (663, 28877), (710, 28775), (742, 28715), (778, 28631), (803, 28550), (835, 28466), (836, 28463), (840, 28454), (847, 28427), (855, 28397), (895, 28337), (906, 28298), (1009, 28082), (1010, 28079), (1013, 28058), (1066, 27923), (1073, 27911), (1079, 27902), (1082, 27899), (1115, 27806),

Gene: KeAlii_40 Start: 29667, Stop: 31577, Start Num: 228
Candidate Starts for KeAlii_40:
(81, 29409), (156, 29580), (Start: 228 @29667 has 960 MA's), (261, 29715), (383, 29898), (410, 29964), (452, 30054), (534, 30213), (572, 30306), (576, 30315), (626, 30414), (633, 30429), (660, 30474), (686, 30519), (707, 30567), (768, 30705), (782, 30759), (803, 30825), (828, 30888), (853,

30969), (855, 30978), (898, 31071), (977, 31251), (1013, 31338), (1066, 31473), (1071, 31482), (1079, 31494),

Gene: Keitherie_62 Start: 54618, Stop: 52759, Start Num: 190
Candidate Starts for Keitherie_62:
(Start: 173 @54642 has 3 MA's), (Start: 190 @54618 has 336 MA's), (Start: 222 @54594 has 3 MA's), (Start: 232 @54588 has 2 MA's), (261, 54546), (274, 54525), (336, 54411), (339, 54405), (355, 54375), (390, 54315), (398, 54294), (416, 54240), (429, 54228), (436, 54210), (440, 54198), (487, 54093), (552, 54036), (569, 54000), (573, 53988), (583, 53964), (590, 53952), (601, 53934), (611, 53916), (622, 53898), (643, 53859), (648, 53850), (649, 53847), (651, 53844), (796, 53487), (804, 53454), (812, 53433), (848, 53340), (851, 53331), (877, 53268), (900, 53232), (901, 53229), (906, 53214), (939, 53136), (946, 53124), (953, 53103), (976, 53064), (1013, 52974), (1022, 52956), (1024, 52950), (1032, 52935), (1040, 52911), (1042, 52896), (1043, 52893), (1047, 52881), (1059, 52857), (1082, 52809), (1093, 52785),

Gene: KekoraPapaka_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for KekoraPapaka_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Kela_63 Start: 43965, Stop: 41998, Start Num: 294
Candidate Starts for Kela_63:
(Start: 294 @43965 has 13 MA's), (343, 43887), (352, 43869), (353, 43866), (397, 43797), (430, 43695), (450, 43647), (482, 43569), (501, 43521), (525, 43416), (536, 43377), (540, 43365), (554, 43338), (569, 43302), (603, 43230), (625, 43185), (684, 43074), (709, 43002), (720, 42975), (762, 42864), (771, 42837), (780, 42804), (793, 42774), (811, 42714), (826, 42669), (848, 42603), (856, 42573), (861, 42552), (864, 42546), (939, 42384), (948, 42366), (949, 42363), (1009, 42243), (1024, 42195), (1030, 42183), (1034, 42174), (1039, 42162), (1042, 42144), (1045, 42135), (1053, 42120), (1064, 42096),

Gene: KellyGreen_39 Start: 28613, Stop: 26748, Start Num: 301
Candidate Starts for KellyGreen_39:
(Start: 241 @28700 has 3 MA's), (Start: 301 @28613 has 153 MA's), (Start: 305 @28604 has 5 MA's), (353, 28499), (360, 28490), (378, 28460), (380, 28457), (435, 28337), (439, 28325), (442, 28319), (483, 28214), (494, 28187), (582, 28046), (585, 28040), (586, 28037), (590, 28025), (606, 27998), (607, 27995), (614, 27980), (618, 27974), (621, 27968), (638, 27935), (701, 27806), (726, 27746), (847, 27431), (850, 27422), (851, 27419), (855, 27401), (873, 27359), (877, 27353), (888, 27329), (908, 27272), (974, 27113), (989, 27083), (992, 27074), (1010, 27014), (1013, 26990), (1028, 26951), (1040, 26918), (1044, 26906), (1068, 26846),

Gene: Kenmech_48 Start: 35912, Stop: 34083, Start Num: 228
Candidate Starts for Kenmech_48:
(Start: 228 @35912 has 960 MA's), (366, 35699), (399, 35636), (410, 35606), (418, 35585), (424, 35579), (430, 35570), (479, 35453), (490, 35426), (570, 35333), (576, 35318), (621, 35234), (622, 35231), (659, 35165), (680, 35135), (690, 35105), (709, 35060), (729, 35021), (803, 34841), (821, 34793), (840, 34745), (851, 34706), (855, 34688), (871, 34649), (895, 34628), (900, 34607), (905, 34592), (955, 34469), (1036, 34298), (1041, 34274), (1062, 34226), (1066, 34214), (1079, 34193), (1083, 34187), (1102, 34139), (1109, 34124),

Gene: Kenzers_43 Start: 29644, Stop: 31518, Start Num: 217

Candidate Starts for Kenzers_43:
(Start: 215 @29641 has 12 MA's), (Start: 217 @29644 has 68 MA's), (Start: 273 @29713 has 1 MA's), (Start: 285 @29734 has 1 MA's), (360, 29851), (399, 29914), (430, 29980), (448, 30022), (626, 30316), (741, 30550), (784, 30673), (803, 30733), (806, 30739), (823, 30784), (833, 30814), (845, 30850), (855, 30886), (898, 30979), (936, 31072), (973, 31150), (1009, 31222), (1018, 31261), (1038, 31303), (1041, 31321), (1066, 31381), (1079, 31402),

Gene: Keough_10 Start: 8346, Stop: 6148, Start Num: 161
Candidate Starts for Keough_10:
(Start: 161 @8346 has 21 MA's), (235, 8256), (258, 8226), (261, 8220), (Start: 285 @8184 has 1 MA's), (299, 8166), (341, 8115), (356, 8085), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (516, 7671), (544, 7578), (571, 7512), (605, 7467), (606, 7464), (654, 7380), (682, 7329), (692, 7296), (714, 7245), (723, 7221), (724, 7218), (753, 7137), (799, 6990), (844, 6852), (857, 6804), (858, 6801), (875, 6729), (880, 6714), (898, 6651), (913, 6621), (1011, 6387), (1013, 6375), (1020, 6354), (1035, 6318), (1036, 6315), (1043, 6285), (1053, 6270), (1064, 6240), (1066, 6231), (1073, 6219),

Gene: Kerberos_47 Start: 31153, Stop: 29330, Start Num: 228
Candidate Starts for Kerberos_47:
(Start: 228 @31153 has 960 MA's), (360, 30949), (373, 30925), (384, 30907), (394, 30889), (399, 30874), (400, 30871), (410, 30844), (424, 30817), (448, 30766), (490, 30664), (570, 30571), (590, 30523), (595, 30514), (606, 30502), (607, 30499), (643, 30433), (680, 30373), (729, 30259), (742, 30235), (766, 30196), (803, 30070), (823, 30019), (836, 29983), (855, 29917), (871, 29878), (901, 29809), (919, 29770), (936, 29725), (949, 29695), (982, 29632), (990, 29620), (992, 29614), (1013, 29554), (1066, 29419), (1073, 29407), (1079, 29398),

Gene: Keziacharles14_44 Start: 32157, Stop: 30364, Start Num: 227
Candidate Starts for Keziacharles14_44:
(150, 32262), (Start: 227 @32157 has 33 MA's), (235, 32148), (317, 32019), (342, 31986), (360, 31953), (384, 31911), (399, 31878), (400, 31875), (415, 31833), (424, 31821), (448, 31770), (490, 31668), (491, 31665), (570, 31575), (583, 31539), (659, 31407), (733, 31248), (764, 31209), (767, 31203), (803, 31080), (840, 30984), (845, 30963), (855, 30927), (900, 30846), (949, 30729), (955, 30708), (982, 30666), (1009, 30612), (1042, 30510), (1066, 30453), (1073, 30441), (1079, 30432),

Gene: Khan1_60 Start: 54513, Stop: 52654, Start Num: 190
Candidate Starts for Khan1_60:
(Start: 173 @54537 has 3 MA's), (Start: 190 @54513 has 336 MA's), (Start: 222 @54489 has 3 MA's), (Start: 232 @54483 has 2 MA's), (261, 54441), (274, 54420), (336, 54306), (339, 54300), (355, 54270), (390, 54210), (398, 54189), (416, 54135), (429, 54123), (436, 54105), (440, 54093), (487, 53988), (552, 53931), (569, 53895), (573, 53883), (583, 53859), (590, 53847), (601, 53829), (611, 53811), (622, 53793), (643, 53754), (648, 53745), (649, 53742), (651, 53739), (761, 53484), (796, 53382), (804, 53349), (812, 53328), (848, 53235), (851, 53226), (877, 53163), (900, 53127), (901, 53124), (906, 53109), (939, 53031), (946, 53019), (953, 52998), (976, 52959), (1013, 52869), (1022, 52851), (1024, 52845), (1032, 52830), (1040, 52806), (1042, 52791), (1043, 52788), (1047, 52776), (1059, 52752), (1066, 52731), (1082, 52704), (1093, 52680),

Gene: Kheth_57 Start: 52520, Stop: 50691, Start Num: 190
Candidate Starts for Kheth_57:
(Start: 190 @52520 has 336 MA's), (Start: 232 @52493 has 2 MA's), (Start: 255 @52463 has 8 MA's), (261, 52451), (Start: 276 @52424 has 2 MA's), (278, 52421), (284, 52412), (307, 52394), (362, 52298), (390, 52247), (399, 52223), (406, 52199), (467, 52061), (482, 52037), (487, 52025), (552, 51968), (569, 51932), (573, 51920), (583, 51896), (630, 51812), (648, 51782), (649, 51779), (664, 51749), (727, 51605), (755, 51539), (771, 51500), (775, 51488), (780, 51467), (787, 51449), (804, 51392), (840, 51308), (848, 51278), (851, 51269), (875, 51203), (897, 51176), (900, 51167), (906, 51149),

(919, 51125), (939, 51071), (946, 51059), (953, 51038), (992, 50969), (1013, 50909), (1022, 50891), (1036, 50858), (1040, 50846), (1042, 50831), (1043, 50828), (1047, 50816), (1059, 50792), (1060, 50789), (1082, 50741), (1083, 50738), (1093, 50717), (1100, 50696),

Gene: Kieran_40 Start: 29929, Stop: 31800, Start Num: 217
Candidate Starts for Kieran_40:
(Start: 217 @29929 has 68 MA's), (346, 30112), (369, 30151), (386, 30169), (430, 30265), (435, 30277), (436, 30280), (473, 30361), (602, 30553), (626, 30601), (681, 30691), (741, 30832), (784, 30955), (803, 31015), (830, 31081), (833, 31096), (845, 31132), (848, 31141), (855, 31168), (898, 31261), (973, 31432), (1009, 31504), (1018, 31543), (1038, 31585), (1058, 31639), (1066, 31663), (1079, 31684), (1090, 31708),

Gene: KikiBouba_46 Start: 35358, Stop: 33532, Start Num: 228
Candidate Starts for KikiBouba_46:
(Start: 228 @35358 has 960 MA's), (366, 35145), (373, 35130), (410, 35052), (418, 35031), (424, 35025), (430, 35016), (479, 34899), (490, 34872), (570, 34779), (576, 34764), (621, 34680), (622, 34677), (659, 34611), (690, 34551), (709, 34506), (729, 34467), (803, 34287), (821, 34239), (836, 34200), (855, 34134), (871, 34095), (895, 34074), (900, 34053), (906, 34035), (935, 33969), (1007, 33828), (1009, 33819), (1010, 33816), (1018, 33780), (1032, 33756), (1035, 33747), (1039, 33735), (1066, 33660), (1079, 33639),

Gene: Kikiko_13 Start: 9021, Stop: 6817, Start Num: 166
Candidate Starts for Kikiko_13:
(Start: 166 @9021 has 1 MA's), (205, 8973), (252, 8913), (Start: 285 @8853 has 1 MA's), (287, 8850), (Start: 301 @8832 has 153 MA's), (327, 8796), (356, 8742), (365, 8730), (393, 8673), (442, 8535), (457, 8496), (481, 8439), (508, 8367), (513, 8340), (515, 8331), (516, 8322), (519, 8298), (530, 8268), (547, 8232), (574, 8166), (578, 8157), (612, 8124), (657, 8055), (664, 8040), (714, 7926), (729, 7896), (733, 7884), (736, 7878), (741, 7863), (778, 7764), (840, 7578), (851, 7539), (911, 7323), (913, 7320), (934, 7266), (1011, 7101), (1013, 7089), (1042, 7002), (1043, 6999), (1062, 6921), (1066, 6906), (1073, 6894),

Gene: Kikipoo_62 Start: 54547, Stop: 52688, Start Num: 190
Candidate Starts for Kikipoo_62:
(Start: 173 @54571 has 3 MA's), (Start: 190 @54547 has 336 MA's), (Start: 222 @54523 has 3 MA's), (Start: 232 @54517 has 2 MA's), (261, 54475), (274, 54454), (336, 54340), (339, 54334), (355, 54304), (390, 54244), (398, 54223), (416, 54169), (429, 54157), (436, 54139), (440, 54127), (487, 54022), (552, 53965), (569, 53929), (573, 53917), (577, 53908), (585, 53890), (601, 53863), (611, 53845), (622, 53827), (643, 53788), (648, 53779), (649, 53776), (651, 53773), (761, 53518), (796, 53416), (804, 53383), (812, 53362), (848, 53269), (851, 53260), (877, 53197), (900, 53161), (901, 53158), (906, 53143), (939, 53065), (946, 53053), (953, 53032), (976, 52993), (1013, 52903), (1022, 52885), (1024, 52879), (1032, 52864), (1040, 52840), (1042, 52825), (1043, 52822), (1047, 52810), (1059, 52786), (1082, 52738), (1093, 52714),

Gene: Killigrew_44 Start: 34598, Stop: 32769, Start Num: 228
Candidate Starts for Killigrew_44:
(Start: 228 @34598 has 960 MA's), (366, 34385), (373, 34370), (399, 34322), (410, 34292), (418, 34271), (424, 34265), (430, 34256), (479, 34139), (490, 34112), (570, 34019), (576, 34004), (621, 33920), (622, 33917), (659, 33851), (680, 33821), (690, 33791), (709, 33746), (729, 33707), (803, 33527), (821, 33479), (840, 33431), (851, 33392), (855, 33374), (871, 33335), (895, 33314), (900, 33293), (905, 33278), (955, 33155), (1036, 32984), (1041, 32960), (1062, 32912), (1066, 32900), (1079, 32879), (1083, 32873), (1102, 32825), (1109, 32810),

Gene: Kimba_45 Start: 30739, Stop: 28952, Start Num: 228

Candidate Starts for Kimba_45:
(Start: 228 @30739 has 960 MA's), (360, 30535), (399, 30463), (410, 30433), (424, 30406), (572, 30154), (595, 30103), (643, 30022), (668, 29977), (670, 29974), (707, 29893), (733, 29836), (766, 29794), (778, 29749), (803, 29668), (823, 29617), (836, 29581), (855, 29515), (895, 29455), (897, 29443), (938, 29341), (949, 29317), (954, 29299), (992, 29236), (1007, 29209), (1009, 29200), (1013, 29176), (1066, 29041), (1073, 29029), (1079, 29020),

Gene: Kimbrough_61 Start: 54598, Stop: 52739, Start Num: 190
Candidate Starts for Kimbrough_61:
(Start: 173 @54622 has 3 MA's), (Start: 190 @54598 has 336 MA's), (Start: 222 @54574 has 3 MA's), (Start: 232 @54568 has 2 MA's), (261, 54526), (274, 54505), (336, 54391), (339, 54385), (355, 54355), (390, 54295), (398, 54274), (416, 54220), (429, 54208), (436, 54190), (440, 54178), (487, 54073), (552, 54016), (569, 53980), (573, 53968), (583, 53944), (590, 53932), (601, 53914), (611, 53896), (622, 53878), (643, 53839), (648, 53830), (649, 53827), (651, 53824), (796, 53467), (804, 53434), (812, 53413), (848, 53320), (851, 53311), (877, 53248), (900, 53212), (901, 53209), (906, 53194), (939, 53116), (946, 53104), (953, 53083), (976, 53044), (1013, 52954), (1022, 52936), (1024, 52930), (1032, 52915), (1040, 52891), (1042, 52876), (1043, 52873), (1047, 52861), (1059, 52837), (1082, 52789), (1093, 52765),

Gene: Kimona_43 Start: 29598, Stop: 27742, Start Num: 228
Candidate Starts for Kimona_43:
(Start: 228 @29598 has 960 MA's), (360, 29394), (410, 29292), (418, 29271), (424, 29265), (430, 29256), (485, 29124), (490, 29112), (570, 29016), (626, 28905), (643, 28878), (696, 28773), (707, 28752), (729, 28707), (759, 28638), (778, 28581), (803, 28500), (855, 28347), (871, 28308), (901, 28236), (906, 28221), (919, 28197), (935, 28155), (949, 28122), (1066, 27831), (1073, 27819), (1079, 27810),

Gene: KingCyrus_47 Start: 33203, Stop: 31416, Start Num: 228
Candidate Starts for KingCyrus_47:
(179, 33239), (Start: 228 @33203 has 960 MA's), (362, 32996), (366, 32990), (375, 32975), (384, 32960), (400, 32924), (410, 32897), (424, 32870), (435, 32849), (490, 32717), (570, 32624), (590, 32576), (595, 32567), (607, 32552), (643, 32486), (686, 32405), (707, 32357), (729, 32312), (742, 32288), (803, 32132), (823, 32081), (835, 32048), (836, 32045), (855, 31979), (871, 31940), (895, 31919), (924, 31844), (929, 31832), (949, 31781), (982, 31718), (992, 31700), (1009, 31664), (1042, 31562), (1066, 31505), (1073, 31493), (1079, 31484),

Gene: KingJulien_38 Start: 29054, Stop: 27189, Start Num: 301
Candidate Starts for KingJulien_38:
(Start: 301 @29054 has 153 MA's), (Start: 305 @29045 has 5 MA's), (433, 28781), (439, 28766), (442, 28760), (494, 28628), (545, 28574), (552, 28562), (582, 28487), (586, 28478), (590, 28466), (606, 28439), (607, 28436), (614, 28421), (618, 28415), (623, 28403), (659, 28334), (768, 28085), (847, 27872), (850, 27863), (851, 27860), (855, 27842), (873, 27800), (908, 27713), (974, 27554), (989, 27524), (1010, 27455), (1013, 27431), (1028, 27392), (1040, 27359), (1044, 27347),

Gene: KingKamren_10 Start: 8414, Stop: 6177, Start Num: 163
Candidate Starts for KingKamren_10:
(Start: 163 @8414 has 29 MA's), (Start: 225 @8333 has 16 MA's), (247, 8300), (Start: 285 @8249 has 1 MA's), (325, 8168), (388, 8042), (423, 7943), (433, 7913), (451, 7874), (508, 7727), (513, 7700), (515, 7691), (527, 7628), (556, 7550), (572, 7508), (645, 7406), (692, 7304), (714, 7253), (753, 7169), (773, 7112), (778, 7094), (841, 6899), (844, 6887), (857, 6839), (858, 6836), (879, 6752), (910, 6662), (920, 6641), (970, 6527), (972, 6524), (1019, 6389), (1026, 6371), (1035, 6350), (1043, 6317), (1053, 6302), (1066, 6263), (1073, 6251), (1077, 6242), (1080, 6236),

Gene: KingTut_53 Start: 50762, Stop: 48903, Start Num: 190
Candidate Starts for KingTut_53:
(Start: 173 @50786 has 3 MA's), (Start: 190 @50762 has 336 MA's), (Start: 222 @50738 has 3 MA's), (Start: 232 @50732 has 2 MA's), (261, 50690), (274, 50669), (336, 50555), (339, 50549), (355, 50519), (390, 50459), (398, 50438), (416, 50384), (429, 50372), (436, 50354), (440, 50342), (487, 50237), (552, 50180), (569, 50144), (573, 50132), (585, 50105), (601, 50078), (611, 50060), (622, 50042), (643, 50003), (648, 49994), (649, 49991), (761, 49733), (796, 49631), (804, 49598), (812, 49577), (848, 49484), (851, 49475), (877, 49412), (900, 49376), (901, 49373), (906, 49358), (939, 49280), (946, 49268), (953, 49247), (976, 49208), (1013, 49118), (1022, 49100), (1024, 49094), (1032, 49079), (1040, 49055), (1042, 49040), (1043, 49037), (1047, 49025), (1059, 49001), (1082, 48953), (1093, 48929),

Gene: KingVeVeVe_59 Start: 53565, Stop: 51706, Start Num: 190
Candidate Starts for KingVeVeVe_59:
(Start: 173 @53589 has 3 MA's), (Start: 190 @53565 has 336 MA's), (Start: 222 @53541 has 3 MA's), (Start: 232 @53535 has 2 MA's), (249, 53508), (261, 53493), (274, 53472), (336, 53358), (339, 53352), (355, 53322), (390, 53262), (398, 53241), (416, 53187), (429, 53175), (436, 53157), (440, 53145), (487, 53040), (552, 52983), (569, 52947), (573, 52935), (585, 52908), (590, 52899), (611, 52863), (643, 52806), (648, 52797), (649, 52794), (651, 52791), (796, 52434), (804, 52401), (812, 52380), (848, 52287), (851, 52278), (877, 52215), (900, 52179), (901, 52176), (906, 52161), (939, 52083), (946, 52071), (953, 52050), (976, 52011), (1013, 51921), (1022, 51903), (1024, 51897), (1032, 51882), (1040, 51858), (1042, 51843), (1043, 51840), (1047, 51828), (1059, 51804), (1082, 51756), (1093, 51732),

Gene: Kingmustik0402_45 Start: 31559, Stop: 29733, Start Num: 228
Candidate Starts for Kingmustik0402_45:
(Start: 228 @31559 has 960 MA's), (Start: 241 @31538 has 3 MA's), (263, 31508), (278, 31478), (384, 31316), (394, 31298), (424, 31226), (430, 31217), (480, 31097), (490, 31073), (570, 30980), (592, 30932), (607, 30911), (626, 30872), (696, 30740), (707, 30719), (729, 30674), (733, 30662), (798, 30509), (803, 30488), (847, 30365), (855, 30335), (871, 30296), (900, 30230), (901, 30227), (906, 30212), (919, 30188), (929, 30164), (1013, 29957), (1066, 29822), (1073, 29810), (1079, 29801),

Gene: Kinmap_43 Start: 30677, Stop: 28872, Start Num: 228
Candidate Starts for Kinmap_43:
(Start: 228 @30677 has 960 MA's), (384, 30431), (399, 30398), (400, 30395), (410, 30368), (424, 30341), (430, 30332), (490, 30188), (570, 30095), (590, 30047), (771, 29699), (781, 29663), (803, 29594), (823, 29537), (847, 29465), (855, 29435), (900, 29354), (949, 29237), (1009, 29120), (1066, 28961), (1073, 28949), (1079, 28940),

Gene: Kipper29_45 Start: 29646, Stop: 27805, Start Num: 228
Candidate Starts for Kipper29_45:
(Start: 228 @29646 has 960 MA's), (360, 29442), (399, 29367), (400, 29364), (410, 29337), (415, 29322), (424, 29310), (448, 29259), (485, 29169), (490, 29157), (570, 29064), (585, 29025), (595, 29007), (607, 28992), (643, 28926), (660, 28893), (663, 28890), (710, 28788), (742, 28728), (778, 28644), (803, 28563), (835, 28479), (836, 28476), (840, 28467), (847, 28440), (855, 28410), (895, 28350), (906, 28311), (1009, 28095), (1010, 28092), (1013, 28071), (1066, 27936), (1073, 27924), (1079, 27915), (1082, 27912), (1115, 27819),

Gene: KittenMittens_41 Start: 30386, Stop: 28554, Start Num: 228
Candidate Starts for KittenMittens_41:
(Start: 228 @30386 has 960 MA's), (263, 30335), (307, 30269), (360, 30182), (366, 30173), (396, 30122), (399, 30110), (424, 30053), (458, 29972), (462, 29960), (465, 29951), (480, 29924), (490, 29900), (570, 29807), (585, 29768), (626, 29699), (643, 29672), (709, 29540), (803, 29312), (830,

29246), (847, 29189), (855, 29159), (871, 29120), (901, 29048), (906, 29033), (919, 29009), (935, 28967), (949, 28934), (1013, 28778), (1024, 28754), (1045, 28691), (1066, 28643), (1073, 28631), (1079, 28622),

Gene: Kiwot_63 Start: 54396, Stop: 52537, Start Num: 190
Candidate Starts for Kiwot_63:
(Start: 173 @54420 has 3 MA's), (Start: 190 @54396 has 336 MA's), (Start: 222 @54372 has 3 MA's), (Start: 232 @54366 has 2 MA's), (261, 54324), (274, 54303), (336, 54189), (339, 54183), (355, 54153), (390, 54093), (398, 54072), (416, 54018), (429, 54006), (436, 53988), (440, 53976), (487, 53871), (552, 53814), (569, 53778), (573, 53766), (585, 53739), (611, 53694), (643, 53637), (648, 53628), (649, 53625), (796, 53265), (804, 53232), (812, 53211), (848, 53118), (851, 53109), (877, 53046), (900, 53010), (901, 53007), (906, 52992), (939, 52914), (946, 52902), (953, 52881), (976, 52842), (1013, 52752), (1022, 52734), (1024, 52728), (1032, 52713), (1040, 52689), (1042, 52674), (1043, 52671), (1047, 52659), (1059, 52635), (1082, 52587), (1093, 52563),

Gene: KlimbOn_60 Start: 54056, Stop: 52197, Start Num: 190
Candidate Starts for KlimbOn_60:
(Start: 173 @54080 has 3 MA's), (Start: 190 @54056 has 336 MA's), (Start: 222 @54032 has 3 MA's), (Start: 232 @54026 has 2 MA's), (261, 53984), (274, 53963), (336, 53849), (339, 53843), (355, 53813), (390, 53753), (398, 53732), (416, 53678), (429, 53666), (436, 53648), (440, 53636), (487, 53531), (552, 53474), (569, 53438), (573, 53426), (583, 53402), (590, 53390), (601, 53372), (611, 53354), (622, 53336), (643, 53297), (648, 53288), (649, 53285), (651, 53282), (761, 53027), (796, 52925), (804, 52892), (812, 52871), (848, 52778), (851, 52769), (877, 52706), (900, 52670), (901, 52667), (906, 52652), (939, 52574), (946, 52562), (953, 52541), (976, 52502), (1013, 52412), (1022, 52394), (1024, 52388), (1032, 52373), (1040, 52349), (1042, 52334), (1043, 52331), (1047, 52319), (1059, 52295), (1082, 52247), (1093, 52223),

Gene: Klimt_38 Start: 28614, Stop: 26749, Start Num: 301
Candidate Starts for Klimt_38:
(Start: 241 @28701 has 3 MA's), (Start: 301 @28614 has 153 MA's), (Start: 305 @28605 has 5 MA's), (353, 28500), (360, 28491), (378, 28461), (380, 28458), (435, 28338), (439, 28326), (442, 28320), (483, 28215), (494, 28188), (582, 28047), (585, 28041), (586, 28038), (590, 28026), (606, 27999), (607, 27996), (614, 27981), (618, 27975), (621, 27969), (638, 27936), (701, 27807), (726, 27747), (847, 27432), (850, 27423), (851, 27420), (855, 27402), (873, 27360), (877, 27354), (888, 27330), (908, 27273), (974, 27114), (989, 27084), (992, 27075), (1010, 27015), (1013, 26991), (1028, 26952), (1040, 26919), (1044, 26907), (1068, 26847),

Gene: Klodlith_43 Start: 30725, Stop: 28932, Start Num: 228
Candidate Starts for Klodlith_43:
(Start: 228 @30725 has 960 MA's), (235, 30716), (342, 30554), (343, 30551), (360, 30521), (386, 30476), (400, 30443), (410, 30416), (415, 30401), (424, 30389), (448, 30338), (480, 30260), (490, 30236), (570, 30143), (579, 30119), (587, 30098), (659, 29975), (733, 29816), (735, 29813), (764, 29777), (767, 29771), (803, 29648), (830, 29582), (851, 29513), (855, 29495), (895, 29435), (900, 29414), (949, 29297), (990, 29222), (1009, 29180), (1042, 29078), (1066, 29021), (1073, 29009), (1079, 29000),

Gene: Kloppinator_61 Start: 54207, Stop: 52348, Start Num: 190
Candidate Starts for Kloppinator_61:
(Start: 173 @54231 has 3 MA's), (Start: 190 @54207 has 336 MA's), (Start: 222 @54183 has 3 MA's), (Start: 232 @54177 has 2 MA's), (261, 54135), (274, 54114), (336, 54000), (339, 53994), (355, 53964), (390, 53904), (398, 53883), (416, 53829), (429, 53817), (436, 53799), (439, 53790), (440, 53787), (487, 53682), (552, 53625), (569, 53589), (573, 53577), (583, 53553), (590, 53541), (601, 53523), (611, 53505), (622, 53487), (643, 53448), (648, 53439), (649, 53436), (651, 53433), (796, 53076),

(804, 53043), (812, 53022), (848, 52929), (851, 52920), (877, 52857), (900, 52821), (901, 52818), (906, 52803), (939, 52725), (946, 52713), (953, 52692), (976, 52653), (1013, 52563), (1022, 52545), (1024, 52539), (1032, 52524), (1040, 52500), (1042, 52485), (1043, 52482), (1047, 52470), (1059, 52446), (1082, 52398), (1093, 52374),

Gene: Knocker_59 Start: 55993, Stop: 54140, Start Num: 190
Candidate Starts for Knocker_59:
(Start: 190 @55993 has 336 MA's), (249, 55936), (278, 55891), (Start: 285 @55879 has 1 MA's), (287, 55876), (304, 55855), (362, 55750), (439, 55588), (440, 55585), (449, 55567), (487, 55480), (552, 55423), (558, 55411), (569, 55387), (573, 55375), (590, 55339), (594, 55333), (635, 55252), (648, 55231), (649, 55228), (660, 55204), (664, 55198), (707, 55114), (721, 55084), (740, 55018), (761, 54970), (769, 54949), (776, 54928), (787, 54892), (797, 54862), (804, 54835), (812, 54814), (846, 54727), (848, 54721), (851, 54712), (877, 54649), (900, 54613), (901, 54610), (902, 54607), (906, 54595), (919, 54571), (939, 54517), (946, 54505), (953, 54484), (955, 54475), (992, 54415), (1010, 54376), (1022, 54337), (1024, 54331), (1040, 54292), (1041, 54280), (1042, 54277), (1043, 54274), (1054, 54250), (1059, 54238), (1067, 54214), (1082, 54190), (1083, 54187), (1093, 54166), (1100, 54145),

Gene: Knox_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for Knox_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (433, 28661), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (726, 28067), (749, 28013), (758, 27992), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Koan_43 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Koan_43:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Koduck_45 Start: 30337, Stop: 28550, Start Num: 227
Candidate Starts for Koduck_45:
(Start: 227 @30337 has 33 MA's), (362, 30130), (366, 30124), (375, 30109), (384, 30094), (398, 30064), (399, 30061), (410, 30031), (424, 30004), (435, 29983), (448, 29953), (490, 29851), (570, 29758), (587, 29713), (590, 29710), (595, 29701), (607, 29686), (643, 29620), (660, 29587), (686, 29539), (707, 29491), (803, 29266), (823, 29215), (835, 29182), (836, 29179), (855, 29113), (871, 29074), (895, 29053), (924, 28978), (931, 28960), (949, 28915), (958, 28888), (982, 28852), (992, 28834), (1009, 28798), (1013, 28774), (1038, 28717), (1066, 28639), (1073, 28627), (1079, 28618),

Gene: Koji_37 Start: 28666, Stop: 26816, Start Num: 297
Candidate Starts for Koji_37:
(Start: 297 @28666 has 21 MA's), (360, 28543), (380, 28510), (431, 28399), (439, 28378), (442, 28372), (446, 28363), (460, 28321), (560, 28165), (582, 28111), (585, 28105), (586, 28102), (590, 28090), (607, 28060), (636, 28003), (735, 27787), (768, 27709), (847, 27499), (851, 27487), (855, 27469), (873, 27427), (908, 27340), (989, 27151), (992, 27142), (1010, 27082), (1013, 27058), (1020, 27037), (1025, 27025), (1068, 26914),

Gene: Koko_47 Start: 30329, Stop: 28530, Start Num: 228
Candidate Starts for Koko_47:
(Start: 228 @30329 has 960 MA's), (360, 30125), (366, 30116), (399, 30050), (400, 30047), (410, 30020), (415, 30005), (424, 29993), (448, 29942), (485, 29852), (490, 29840), (570, 29747), (590, 29699), (595, 29690), (693, 29507), (771, 29357), (803, 29252), (823, 29195), (836, 29159), (840, 29150), (847, 29123), (855, 29093), (871, 29054), (895, 29033), (904, 29000), (906, 28994), (949, 28895), (982, 28832), (1009, 28778), (1013, 28754), (1038, 28697), (1066, 28619), (1073, 28607), (1079, 28598), (1082, 28595),

Gene: Kolhan_57 Start: 52487, Stop: 50658, Start Num: 190
Candidate Starts for Kolhan_57:
(Start: 190 @52487 has 336 MA's), (Start: 232 @52460 has 2 MA's), (Start: 255 @52430 has 8 MA's), (261, 52418), (Start: 276 @52391 has 2 MA's), (278, 52388), (284, 52379), (307, 52361), (362, 52265), (390, 52214), (399, 52190), (406, 52166), (467, 52028), (482, 52004), (487, 51992), (552, 51935), (569, 51899), (573, 51887), (583, 51863), (630, 51779), (648, 51749), (649, 51746), (664, 51716), (727, 51572), (755, 51506), (775, 51455), (780, 51434), (787, 51416), (804, 51359), (840, 51275), (848, 51245), (851, 51236), (875, 51170), (897, 51143), (900, 51134), (906, 51116), (919, 51092), (939, 51038), (946, 51026), (953, 51005), (992, 50936), (1013, 50876), (1022, 50858), (1036, 50825), (1040, 50813), (1042, 50798), (1043, 50795), (1047, 50783), (1059, 50759), (1060, 50756), (1082, 50708), (1083, 50705), (1093, 50684), (1100, 50663),

Gene: Koreni_44 Start: 31251, Stop: 29425, Start Num: 228
Candidate Starts for Koreni_44:
(Start: 228 @31251 has 960 MA's), (Start: 241 @31230 has 3 MA's), (263, 31200), (278, 31170), (384, 31008), (394, 30990), (424, 30918), (430, 30909), (480, 30789), (490, 30765), (570, 30672), (592, 30624), (607, 30603), (626, 30564), (696, 30432), (707, 30411), (729, 30366), (733, 30354), (798, 30201), (803, 30180), (847, 30057), (855, 30027), (871, 29988), (900, 29922), (901, 29919), (906, 29904), (919, 29880), (929, 29856), (1013, 29649), (1066, 29514), (1073, 29502), (1079, 29493),

Gene: Kosier_10 Start: 8646, Stop: 6427, Start Num: 163
Candidate Starts for Kosier_10:
(Start: 163 @8646 has 29 MA's), (Start: 225 @8568 has 16 MA's), (235, 8556), (258, 8526), (266, 8514), (Start: 273 @8499 has 1 MA's), (321, 8421), (329, 8406), (341, 8376), (356, 8346), (402, 8253), (422, 8196), (456, 8112), (464, 8088), (492, 8022), (494, 8016), (499, 8004), (508, 7977), (516, 7932), (544, 7839), (548, 7827), (571, 7773), (574, 7761), (631, 7683), (647, 7656), (686, 7575), (692, 7557), (714, 7506), (733, 7467), (753, 7422), (778, 7347), (799, 7275), (805, 7257), (844, 7137), (857, 7089), (858, 7086), (880, 6999), (898, 6936), (992, 6723), (1006, 6696), (1011, 6672), (1013, 6660), (1019, 6642), (1037, 6597), (1061, 6525), (1066, 6510), (1073, 6498),

Gene: Kouch_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for Kouch_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Kradal_67 Start: 46750, Stop: 44786, Start Num: 294
Candidate Starts for Kradal_67:
(Start: 294 @46750 has 13 MA's), (352, 46654), (409, 46546), (413, 46534), (430, 46480), (462, 46396), (512, 46261), (536, 46162), (540, 46150), (554, 46123), (559, 46108), (625, 45970), (672,

45883), (709, 45787), (748, 45679), (750, 45676), (764, 45649), (772, 45622), (780, 45592), (793, 45562), (826, 45457), (859, 45349), (861, 45340), (864, 45334), (933, 45190), (939, 45172), (948, 45154), (987, 45100), (1024, 44983), (1030, 44971), (1034, 44962), (1039, 44950), (1042, 44932), (1053, 44908), (1064, 44884), (1071, 44866),

Gene: Kratark_45 Start: 31709, Stop: 29883, Start Num: 228
Candidate Starts for Kratark_45:
(Start: 228 @31709 has 960 MA's), (Start: 241 @31688 has 3 MA's), (263, 31658), (278, 31628), (384, 31466), (394, 31448), (424, 31376), (430, 31367), (480, 31247), (490, 31223), (570, 31130), (592, 31082), (626, 31022), (696, 30890), (707, 30869), (729, 30824), (733, 30812), (798, 30659), (803, 30638), (847, 30515), (855, 30485), (871, 30446), (900, 30380), (901, 30377), (906, 30362), (919, 30338), (929, 30314), (1013, 30107), (1066, 29972), (1073, 29960), (1079, 29951),

Gene: Kremtemulon_45 Start: 31521, Stop: 29695, Start Num: 228
Candidate Starts for Kremtemulon_45:
(Start: 228 @31521 has 960 MA's), (261, 31473), (360, 31317), (399, 31245), (424, 31188), (430, 31179), (480, 31059), (490, 31035), (552, 30981), (570, 30942), (592, 30894), (607, 30873), (626, 30834), (696, 30702), (701, 30693), (707, 30681), (729, 30636), (733, 30624), (798, 30471), (803, 30450), (847, 30327), (855, 30297), (871, 30258), (900, 30192), (901, 30189), (906, 30174), (919, 30150), (929, 30126), (1013, 29919), (1066, 29784), (1073, 29772), (1079, 29763),

Gene: Krishelle_36 Start: 28397, Stop: 26613, Start Num: 228
Candidate Starts for Krishelle_36:
(Start: 228 @28397 has 960 MA's), (342, 28226), (379, 28163), (398, 28124), (399, 28121), (415, 28076), (424, 28064), (430, 28055), (447, 28016), (490, 27911), (570, 27818), (590, 27770), (626, 27707), (643, 27680), (696, 27575), (709, 27548), (729, 27509), (803, 27329), (821, 27281), (855, 27176), (856, 27173), (895, 27116), (900, 27095), (922, 27047), (951, 26972), (990, 26903), (1009, 26861), (1010, 26858), (1013, 26837), (1018, 26822), (1042, 26759), (1066, 26702), (1073, 26690), (1094, 26651), (1100, 26633),

Gene: Kristoff_44 Start: 31492, Stop: 29657, Start Num: 228
Candidate Starts for Kristoff_44:
(Start: 228 @31492 has 960 MA's), (263, 31441), (307, 31375), (360, 31288), (373, 31264), (396, 31228), (399, 31216), (424, 31159), (430, 31150), (490, 31006), (544, 30964), (570, 30913), (592, 30865), (626, 30805), (694, 30676), (696, 30673), (707, 30652), (709, 30646), (767, 30538), (803, 30415), (821, 30367), (847, 30292), (855, 30262), (871, 30223), (900, 30154), (901, 30151), (919, 30112), (929, 30088), (931, 30082), (935, 30070), (1013, 29881), (1024, 29857), (1045, 29794), (1066, 29746), (1073, 29734), (1079, 29725),

Gene: Kronus_58 Start: 54729, Stop: 52912, Start Num: 230
Candidate Starts for Kronus_58:
(110, 54912), (Start: 230 @54729 has 52 MA's), (249, 54699), (366, 54519), (411, 54414), (435, 54366), (439, 54354), (452, 54324), (458, 54318), (487, 54255), (489, 54249), (552, 54198), (569, 54162), (590, 54114), (649, 54009), (694, 53913), (722, 53862), (775, 53718), (787, 53679), (797, 53649), (804, 53622), (810, 53610), (846, 53514), (848, 53508), (851, 53499), (854, 53487), (883, 53415), (900, 53385), (906, 53367), (912, 53358), (939, 53289), (946, 53277), (953, 53256), (992, 53187), (1002, 53172), (1010, 53148), (1013, 53127), (1022, 53109), (1024, 53103), (1038, 53070), (1040, 53064), (1043, 53046), (1047, 53034), (1054, 53022), (1059, 53010), (1078, 52968), (1093, 52938),

Gene: Kugel_46 Start: 35094, Stop: 33268, Start Num: 228
Candidate Starts for Kugel_46:

(Start: 228 @35094 has 960 MA's), (366, 34881), (373, 34866), (399, 34818), (410, 34788), (418, 34767), (424, 34761), (430, 34752), (479, 34635), (490, 34608), (570, 34515), (576, 34500), (590, 34467), (621, 34416), (622, 34413), (659, 34347), (690, 34287), (709, 34242), (729, 34203), (803, 34023), (821, 33975), (836, 33936), (855, 33870), (871, 33831), (895, 33810), (900, 33789), (906, 33771), (935, 33705), (1009, 33555), (1010, 33552), (1018, 33516), (1032, 33492), (1035, 33483), (1039, 33471), (1066, 33396), (1079, 33375),

Gene: Kurt1_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Kurt1_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: Kwadwo_59 Start: 54008, Stop: 52149, Start Num: 190
Candidate Starts for Kwadwo_59:
(Start: 173 @54032 has 3 MA's), (Start: 190 @54008 has 336 MA's), (Start: 222 @53984 has 3 MA's), (Start: 232 @53978 has 2 MA's), (261, 53936), (274, 53915), (336, 53801), (339, 53795), (355, 53765), (390, 53705), (398, 53684), (416, 53630), (429, 53618), (436, 53600), (440, 53588), (487, 53483), (552, 53426), (569, 53390), (573, 53378), (585, 53351), (611, 53306), (643, 53249), (648, 53240), (649, 53237), (761, 52979), (796, 52877), (804, 52844), (812, 52823), (848, 52730), (851, 52721), (877, 52658), (900, 52622), (901, 52619), (906, 52604), (939, 52526), (946, 52514), (953, 52493), (976, 52454), (1013, 52364), (1022, 52346), (1024, 52340), (1032, 52325), (1040, 52301), (1042, 52286), (1043, 52283), (1047, 52271), (1059, 52247), (1082, 52199), (1093, 52175),

Gene: Kwksand96_61 Start: 54137, Stop: 52278, Start Num: 190
Candidate Starts for Kwksand96_61:
(Start: 173 @54161 has 3 MA's), (Start: 190 @54137 has 336 MA's), (Start: 222 @54113 has 3 MA's), (Start: 232 @54107 has 2 MA's), (261, 54065), (274, 54044), (336, 53930), (339, 53924), (355, 53894), (390, 53834), (398, 53813), (416, 53759), (429, 53747), (436, 53729), (440, 53717), (487, 53612), (552, 53555), (569, 53519), (573, 53507), (585, 53480), (611, 53435), (643, 53378), (648, 53369), (649, 53366), (796, 53006), (804, 52973), (812, 52952), (848, 52859), (851, 52850), (877, 52787), (900, 52751), (901, 52748), (906, 52733), (939, 52655), (946, 52643), (953, 52622), (976, 52583), (1013, 52493), (1022, 52475), (1024, 52469), (1032, 52454), (1040, 52430), (1042, 52415), (1043, 52412), (1047, 52400), (1059, 52376), (1082, 52328), (1093, 52304), (1098, 52289),

Gene: KyMonks1A_47 Start: 34990, Stop: 33164, Start Num: 228
Candidate Starts for KyMonks1A_47:
(Start: 228 @34990 has 960 MA's), (366, 34777), (373, 34762), (410, 34684), (418, 34663), (424, 34657), (430, 34648), (479, 34531), (490, 34504), (570, 34411), (576, 34396), (590, 34363), (621, 34312), (622, 34309), (659, 34243), (680, 34213), (690, 34183), (709, 34138), (729, 34099), (803, 33919), (821, 33871), (836, 33832), (855, 33766), (871, 33727), (895, 33706), (900, 33685), (906, 33667), (935, 33601), (1009, 33451), (1010, 33448), (1018, 33412), (1032, 33388), (1035, 33379), (1039, 33367), (1045, 33340), (1066, 33292), (1079, 33271),

Gene: Kyee_45 Start: 31568, Stop: 29742, Start Num: 228
Candidate Starts for Kyee_45:
(Start: 228 @31568 has 960 MA's), (Start: 241 @31547 has 3 MA's), (263, 31517), (278, 31487), (384, 31325), (394, 31307), (424, 31235), (430, 31226), (480, 31106), (490, 31082), (570, 30989), (592, 30941), (607, 30920), (626, 30881), (696, 30749), (707, 30728), (729, 30683), (733, 30671), (798,

30518), (803, 30497), (847, 30374), (855, 30344), (871, 30305), (900, 30239), (901, 30236), (906, 30221), (919, 30197), (929, 30173), (1013, 29966), (1066, 29831), (1073, 29819), (1079, 29810),

Gene: Kykar_45 Start: 34788, Stop: 32959, Start Num: 228
Candidate Starts for Kykar_45:
(Start: 228 @34788 has 960 MA's), (366, 34575), (373, 34560), (410, 34482), (418, 34461), (424, 34455), (430, 34446), (490, 34302), (570, 34209), (576, 34194), (621, 34110), (622, 34107), (659, 34041), (680, 34011), (690, 33981), (709, 33936), (729, 33897), (803, 33717), (821, 33669), (840, 33621), (851, 33582), (855, 33564), (871, 33525), (895, 33504), (900, 33483), (905, 33468), (955, 33345), (1036, 33174), (1041, 33150), (1062, 33102), (1066, 33090), (1079, 33069), (1083, 33063), (1102, 33015), (1109, 33000),

Gene: L5_44 Start: 30476, Stop: 28689, Start Num: 227
Candidate Starts for L5_44:
(Start: 227 @30476 has 33 MA's), (360, 30272), (362, 30269), (366, 30263), (375, 30248), (384, 30233), (398, 30203), (399, 30200), (410, 30170), (424, 30143), (435, 30122), (448, 30092), (490, 29990), (570, 29897), (587, 29852), (590, 29849), (595, 29840), (607, 29825), (643, 29759), (660, 29726), (686, 29678), (707, 29630), (803, 29405), (823, 29354), (835, 29321), (836, 29318), (855, 29252), (871, 29213), (895, 29192), (924, 29117), (931, 29099), (949, 29054), (958, 29027), (982, 28991), (992, 28973), (1009, 28937), (1013, 28913), (1038, 28856), (1066, 28778), (1073, 28766), (1079, 28757),

Gene: LBerry_49 Start: 31856, Stop: 30042, Start Num: 228
Candidate Starts for LBerry_49:
(Start: 228 @31856 has 960 MA's), (257, 31817), (263, 31805), (360, 31652), (369, 31637), (399, 31580), (424, 31523), (430, 31514), (448, 31472), (465, 31421), (490, 31370), (570, 31277), (590, 31229), (595, 31220), (607, 31205), (626, 31166), (643, 31139), (659, 31109), (703, 31016), (732, 30956), (742, 30941), (803, 30785), (836, 30698), (855, 30632), (871, 30593), (901, 30521), (919, 30482), (929, 30458), (935, 30440), (949, 30407), (958, 30380), (992, 30326), (1013, 30266), (1042, 30188), (1066, 30131), (1073, 30119), (1079, 30110),

Gene: LHTSCC_47 Start: 31992, Stop: 30166, Start Num: 228
Candidate Starts for LHTSCC_47:
(Start: 228 @31992 has 960 MA's), (261, 31944), (360, 31788), (399, 31716), (424, 31659), (430, 31650), (480, 31530), (490, 31506), (570, 31413), (592, 31365), (607, 31344), (626, 31305), (654, 31260), (696, 31173), (701, 31164), (707, 31152), (729, 31107), (733, 31095), (798, 30942), (803, 30921), (847, 30798), (855, 30768), (871, 30729), (900, 30663), (901, 30660), (919, 30621), (929, 30597), (1013, 30390), (1066, 30255), (1073, 30243), (1079, 30234),

Gene: Labeouficaum_61 Start: 54131, Stop: 52272, Start Num: 190
Candidate Starts for Labeouficaum_61:
(Start: 173 @54155 has 3 MA's), (Start: 190 @54131 has 336 MA's), (Start: 222 @54107 has 3 MA's), (Start: 232 @54101 has 2 MA's), (261, 54059), (274, 54038), (336, 53924), (339, 53918), (355, 53888), (390, 53828), (398, 53807), (416, 53753), (429, 53741), (436, 53723), (440, 53711), (487, 53606), (552, 53549), (569, 53513), (573, 53501), (583, 53477), (590, 53465), (601, 53447), (611, 53429), (622, 53411), (643, 53372), (648, 53363), (649, 53360), (651, 53357), (761, 53102), (796, 53000), (804, 52967), (812, 52946), (848, 52853), (851, 52844), (877, 52781), (900, 52745), (901, 52742), (906, 52727), (939, 52649), (946, 52637), (953, 52616), (976, 52577), (1013, 52487), (1022, 52469), (1024, 52463), (1032, 52448), (1040, 52424), (1042, 52409), (1043, 52406), (1047, 52394), (1059, 52370), (1066, 52349), (1082, 52322), (1093, 52298), (1098, 52283),

Gene: LadyAstra_46 Start: 30680, Stop: 32542, Start Num: 228
Candidate Starts for LadyAstra_46:

(Start: 228 @30680 has 960 MA's), (261, 30728), (366, 30893), (410, 30977), (442, 31043), (579, 31289), (626, 31379), (703, 31526), (707, 31532), (745, 31616), (803, 31790), (835, 31874), (845, 31907), (898, 32036), (901, 32045), (945, 32147), (1013, 32303), (1024, 32327), (1036, 32354), (1040, 32366), (1066, 32438),

Gene: LadyBird_47 Start: 31737, Stop: 29950, Start Num: 228
Candidate Starts for LadyBird_47:
(Start: 228 @31737 has 960 MA's), (360, 31533), (362, 31530), (366, 31524), (375, 31509), (384, 31494), (399, 31461), (400, 31458), (410, 31431), (424, 31404), (435, 31383), (448, 31353), (490, 31251), (570, 31158), (573, 31149), (590, 31110), (595, 31101), (607, 31086), (643, 31020), (686, 30939), (707, 30891), (709, 30885), (778, 30747), (803, 30666), (823, 30615), (835, 30582), (836, 30579), (855, 30513), (871, 30474), (895, 30453), (924, 30378), (931, 30360), (949, 30315), (958, 30288), (982, 30252), (992, 30234), (1009, 30198), (1013, 30174), (1038, 30117), (1066, 30039), (1073, 30027), (1079, 30018),

Gene: LadyJasley_40 Start: 33345, Stop: 31501, Start Num: 264
Candidate Starts for LadyJasley_40:
(207, 33429), (210, 33423), (Start: 232 @33393 has 2 MA's), (Start: 264 @33345 has 1 MA's), (Start: 277 @33315 has 1 MA's), (337, 33216), (348, 33201), (408, 33078), (411, 33069), (456, 32997), (462, 32979), (469, 32964), (536, 32889), (556, 32862), (563, 32847), (583, 32793), (585, 32790), (626, 32703), (692, 32583), (699, 32568), (735, 32481), (762, 32424), (872, 32079), (921, 31995), (935, 31956), (955, 31902), (976, 31872), (1014, 31773), (1018, 31761), (1024, 31752), (1036, 31719), (1064, 31644), (1066, 31635), (1083, 31608), (1118, 31515), (1120, 31506),

Gene: Lahqtemish_42 Start: 29831, Stop: 31705, Start Num: 217
Candidate Starts for Lahqtemish_42:
(Start: 217 @29831 has 68 MA's), (Start: 273 @29900 has 1 MA's), (Start: 285 @29921 has 1 MA's), (399, 30101), (436, 30182), (626, 30503), (741, 30737), (783, 30857), (784, 30860), (803, 30920), (806, 30926), (830, 30986), (833, 31001), (845, 31037), (848, 31046), (855, 31073), (898, 31166), (904, 31184), (919, 31214), (973, 31337), (975, 31340), (1009, 31409), (1018, 31448), (1024, 31457), (1038, 31490), (1040, 31496), (1041, 31508), (1058, 31544), (1066, 31568), (1073, 31580), (1079, 31589), (1090, 31613),

Gene: Lambano_52 Start: 52998, Stop: 51175, Start Num: 182
Candidate Starts for Lambano_52:
(Start: 163 @53016 has 29 MA's), (Start: 182 @52998 has 33 MA's), (Start: 232 @52974 has 2 MA's), (249, 52947), (261, 52932), (274, 52911), (324, 52824), (386, 52719), (402, 52677), (436, 52611), (449, 52581), (452, 52572), (457, 52569), (458, 52566), (467, 52539), (552, 52446), (560, 52428), (569, 52410), (573, 52398), (580, 52383), (585, 52371), (648, 52260), (649, 52257), (664, 52227), (685, 52191), (775, 51966), (776, 51963), (787, 51927), (796, 51903), (804, 51870), (846, 51762), (848, 51756), (850, 51750), (851, 51747), (900, 51648), (901, 51645), (906, 51630), (939, 51552), (946, 51540), (953, 51519), (955, 51510), (976, 51480), (990, 51456), (1007, 51423), (1013, 51390), (1022, 51372), (1024, 51366), (1040, 51327), (1043, 51309), (1047, 51297), (1059, 51273), (1078, 51231), (1082, 51225), (1093, 51201),

Gene: Lambert1_44 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for Lambert1_44:
(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836), (1079, 29827),

Gene: Lamina13_45 Start: 34387, Stop: 32561, Start Num: 228
Candidate Starts for Lamina13_45:
(Start: 228 @34387 has 960 MA's), (366, 34174), (373, 34159), (410, 34081), (418, 34060), (424, 34054), (430, 34045), (479, 33928), (490, 33901), (570, 33808), (576, 33793), (621, 33709), (622, 33706), (659, 33640), (680, 33610), (690, 33580), (709, 33535), (729, 33496), (803, 33316), (821, 33268), (836, 33229), (855, 33163), (871, 33124), (895, 33103), (900, 33082), (906, 33064), (935, 32998), (1009, 32848), (1010, 32845), (1018, 32809), (1032, 32785), (1035, 32776), (1039, 32764), (1066, 32689), (1079, 32668),

Gene: Landor_44 Start: 32538, Stop: 30748, Start Num: 228
Candidate Starts for Landor_44:
(Start: 228 @32538 has 960 MA's), (360, 32334), (366, 32325), (400, 32256), (410, 32229), (424, 32202), (490, 32049), (570, 31956), (590, 31908), (595, 31899), (607, 31884), (643, 31818), (660, 31785), (701, 31701), (742, 31620), (766, 31590), (803, 31464), (815, 31434), (823, 31413), (847, 31341), (855, 31311), (871, 31272), (895, 31251), (900, 31230), (982, 31050), (990, 31038), (1009, 30996), (1013, 30972), (1038, 30915), (1042, 30894), (1066, 30837), (1073, 30825), (1079, 30816),

Gene: LappelDuVide_45 Start: 31569, Stop: 29743, Start Num: 228
Candidate Starts for LappelDuVide_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: Larenn_44 Start: 31600, Stop: 29807, Start Num: 228
Candidate Starts for Larenn_44:
(Start: 228 @31600 has 960 MA's), (360, 31396), (362, 31393), (366, 31387), (384, 31357), (399, 31324), (400, 31321), (410, 31294), (424, 31267), (448, 31216), (490, 31114), (570, 31021), (590, 30973), (595, 30964), (607, 30949), (643, 30883), (686, 30802), (707, 30754), (709, 30748), (778, 30610), (803, 30529), (823, 30472), (835, 30439), (847, 30400), (855, 30370), (871, 30331), (895, 30310), (900, 30289), (990, 30097), (992, 30091), (1009, 30055), (1013, 30031), (1038, 29974), (1042, 29953), (1066, 29896), (1073, 29884), (1079, 29875),

Gene: LarryKay_48 Start: 31886, Stop: 30072, Start Num: 228
Candidate Starts for LarryKay_48:
(Start: 228 @31886 has 960 MA's), (257, 31847), (263, 31835), (360, 31682), (369, 31667), (399, 31610), (424, 31553), (430, 31544), (448, 31502), (465, 31451), (490, 31400), (552, 31346), (570, 31307), (590, 31259), (607, 31235), (626, 31196), (643, 31169), (659, 31139), (703, 31046), (709, 31034), (732, 30986), (742, 30971), (803, 30815), (823, 30764), (835, 30731), (836, 30728), (855, 30662), (871, 30623), (901, 30551), (919, 30512), (929, 30488), (935, 30470), (949, 30437), (992, 30356), (1013, 30296), (1045, 30209), (1066, 30161), (1073, 30149), (1079, 30140), (1082, 30137),

Gene: Lars_57 Start: 52585, Stop: 50756, Start Num: 190
Candidate Starts for Lars_57:
(Start: 190 @52585 has 336 MA's), (Start: 232 @52558 has 2 MA's), (Start: 255 @52528 has 8 MA's), (261, 52516), (Start: 276 @52489 has 2 MA's), (278, 52486), (284, 52477), (307, 52459), (362, 52363), (390, 52312), (399, 52288), (406, 52264), (467, 52126), (482, 52102), (487, 52090), (552, 52033), (569, 51997), (573, 51985), (583, 51961), (627, 51883), (630, 51877), (635, 51868), (648, 51847), (649, 51844), (664, 51814), (727, 51670), (755, 51604), (775, 51553), (780, 51532), (787, 51514), (804, 51457), (840, 51373), (848, 51343), (851, 51334), (875, 51268), (897, 51241), (900, 51232), (906, 51214), (919, 51190), (939, 51136), (946, 51124), (953, 51103), (992, 51034), (1013, 50974),

(1022, 50956), (1036, 50923), (1040, 50911), (1042, 50896), (1043, 50893), (1047, 50881), (1059, 50857), (1060, 50854), (1082, 50806), (1083, 50803), (1093, 50782), (1100, 50761),

Gene: Larson_64 Start: 54348, Stop: 52489, Start Num: 190
Candidate Starts for Larson_64:
(Start: 173 @54372 has 3 MA's), (Start: 190 @54348 has 336 MA's), (Start: 222 @54324 has 3 MA's), (Start: 232 @54318 has 2 MA's), (261, 54276), (274, 54255), (336, 54141), (339, 54135), (355, 54105), (390, 54045), (398, 54024), (416, 53970), (429, 53958), (436, 53940), (440, 53928), (487, 53823), (552, 53766), (569, 53730), (573, 53718), (585, 53691), (611, 53646), (643, 53589), (648, 53580), (649, 53577), (796, 53217), (804, 53184), (812, 53163), (848, 53070), (851, 53061), (877, 52998), (900, 52962), (901, 52959), (906, 52944), (939, 52866), (946, 52854), (953, 52833), (976, 52794), (1013, 52704), (1022, 52686), (1024, 52680), (1032, 52665), (1040, 52641), (1042, 52626), (1043, 52623), (1047, 52611), (1059, 52587), (1082, 52539), (1093, 52515),

Gene: LasagnaCat_62 Start: 54420, Stop: 52561, Start Num: 190
Candidate Starts for LasagnaCat_62:
(Start: 173 @54444 has 3 MA's), (Start: 190 @54420 has 336 MA's), (Start: 222 @54396 has 3 MA's), (Start: 232 @54390 has 2 MA's), (261, 54348), (274, 54327), (336, 54213), (339, 54207), (355, 54177), (390, 54117), (398, 54096), (416, 54042), (429, 54030), (436, 54012), (440, 54000), (487, 53895), (552, 53838), (569, 53802), (573, 53790), (585, 53763), (601, 53736), (611, 53718), (622, 53700), (643, 53661), (648, 53652), (649, 53649), (651, 53646), (796, 53289), (804, 53256), (812, 53235), (848, 53142), (851, 53133), (877, 53070), (900, 53034), (901, 53031), (906, 53016), (939, 52938), (946, 52926), (953, 52905), (976, 52866), (1013, 52776), (1022, 52758), (1024, 52752), (1032, 52737), (1040, 52713), (1042, 52698), (1043, 52695), (1047, 52683), (1059, 52659), (1082, 52611), (1093, 52587),

Gene: Lasso_61 Start: 54283, Stop: 52424, Start Num: 190
Candidate Starts for Lasso_61:
(Start: 173 @54307 has 3 MA's), (Start: 190 @54283 has 336 MA's), (Start: 222 @54259 has 3 MA's), (Start: 232 @54253 has 2 MA's), (261, 54211), (274, 54190), (336, 54076), (339, 54070), (355, 54040), (390, 53980), (398, 53959), (416, 53905), (429, 53893), (436, 53875), (440, 53863), (487, 53758), (552, 53701), (569, 53665), (573, 53653), (585, 53626), (611, 53581), (643, 53524), (648, 53515), (649, 53512), (796, 53152), (804, 53119), (812, 53098), (848, 53005), (851, 52996), (877, 52933), (900, 52897), (901, 52894), (906, 52879), (939, 52801), (946, 52789), (953, 52768), (976, 52729), (1013, 52639), (1022, 52621), (1024, 52615), (1032, 52600), (1040, 52576), (1042, 52561), (1043, 52558), (1047, 52546), (1059, 52522), (1082, 52474), (1093, 52450),

Gene: LastNadiia_43 Start: 31301, Stop: 29520, Start Num: 221
Candidate Starts for LastNadiia_43:
(Start: 221 @31301 has 14 MA's), (247, 31262), (274, 31220), (439, 30938), (448, 30920), (483, 30851), (493, 30827), (544, 30797), (570, 30758), (573, 30749), (613, 30677), (626, 30650), (633, 30635), (672, 30572), (697, 30515), (709, 30491), (712, 30485), (729, 30449), (733, 30437), (748, 30413), (798, 30299), (803, 30278), (806, 30272), (822, 30227), (841, 30176), (848, 30152), (855, 30125), (871, 30086), (887, 30059), (919, 29975), (926, 29957), (932, 29942), (949, 29900), (951, 29894), (958, 29873), (986, 29819), (991, 29804), (1006, 29777), (1014, 29738), (1029, 29708), (1038, 29681), (1042, 29660), (1043, 29657), (1049, 29639), (1059, 29624), (1101, 29531),

Gene: LastResort_46 Start: 29743, Stop: 27953, Start Num: 228
Candidate Starts for LastResort_46:
(Start: 228 @29743 has 960 MA's), (343, 29569), (399, 29464), (400, 29461), (410, 29434), (424, 29407), (448, 29356), (490, 29254), (570, 29161), (587, 29116), (590, 29113), (595, 29104), (686, 28942), (696, 28915), (707, 28894), (709, 28888), (768, 28789), (778, 28750), (796, 28699), (803, 28669), (823, 28618), (835, 28585), (845, 28552), (847, 28546), (855, 28516), (895, 28456), (900,

28435), (919, 28393), (930, 28366), (935, 28351), (977, 28264), (1009, 28201), (1010, 28198), (1066, 28042), (1073, 28030), (1082, 28018),

Gene: Laure_103 Start: 71511, Stop: 73079, Start Num: 390
Candidate Starts for Laure_103:
(Start: 238 @71280 has 11 MA's), (299, 71376), (390, 71511), (429, 71592), (439, 71619), (442, 71625), (479, 71694), (493, 71730), (579, 71823), (613, 71877), (626, 71904), (633, 71919), (666, 71973), (729, 72108), (735, 72123), (774, 72204), (783, 72237), (798, 72276), (803, 72297), (806, 72303), (812, 72318), (821, 72345), (835, 72387), (845, 72420), (870, 72504), (879, 72522), (898, 72570), (902, 72582), (919, 72618), (926, 72636), (932, 72651), (953, 72705), (960, 72723), (1006, 72816), (1014, 72855), (1036, 72903), (1038, 72909), (1041, 72927), (1045, 72939), (1049, 72951), (1066, 72987),

Gene: Laurie_57 Start: 52312, Stop: 50483, Start Num: 190
Candidate Starts for Laurie_57:
(Start: 190 @52312 has 336 MA's), (Start: 232 @52285 has 2 MA's), (Start: 255 @52255 has 8 MA's), (261, 52243), (Start: 276 @52216 has 2 MA's), (278, 52213), (284, 52204), (307, 52186), (362, 52090), (390, 52039), (399, 52015), (467, 51853), (476, 51838), (482, 51829), (487, 51817), (552, 51760), (569, 51724), (573, 51712), (583, 51688), (627, 51610), (630, 51604), (635, 51595), (648, 51574), (649, 51571), (664, 51541), (727, 51397), (755, 51331), (775, 51280), (780, 51259), (787, 51241), (804, 51184), (831, 51127), (840, 51100), (848, 51070), (851, 51061), (875, 50995), (897, 50968), (900, 50959), (906, 50941), (919, 50917), (939, 50863), (946, 50851), (953, 50830), (992, 50761), (1013, 50701), (1022, 50683), (1036, 50650), (1040, 50638), (1042, 50623), (1043, 50620), (1047, 50608), (1059, 50584), (1060, 50581), (1082, 50533), (1083, 50530), (1093, 50509), (1100, 50488),

Gene: Leaf_95 Start: 58518, Stop: 60557, Start Num: 194
Candidate Starts for Leaf_95:
(Start: 194 @58518 has 4 MA's), (270, 58629), (272, 58632), (286, 58659), (313, 58716), (335, 58752), (349, 58791), (380, 58845), (387, 58857), (391, 58866), (404, 58902), (435, 58962), (440, 58977), (446, 58989), (461, 59034), (472, 59064), (552, 59178), (590, 59271), (592, 59274), (597, 59283), (607, 59301), (661, 59409), (689, 59463), (695, 59475), (722, 59541), (754, 59610), (815, 59763), (847, 59847), (855, 59877), (907, 60009), (908, 60012), (921, 60048), (933, 60081), (949, 60120), (1010, 60270), (1013, 60294), (1015, 60300), (1020, 60315), (1032, 60345), (1055, 60423), (1063, 60444), (1076, 60474), (1096, 60516), (1108, 60552),

Gene: Leafus_38 Start: 29199, Stop: 27334, Start Num: 301
Candidate Starts for Leafus_38:
(Start: 301 @29199 has 153 MA's), (Start: 305 @29190 has 5 MA's), (433, 28926), (439, 28911), (442, 28905), (494, 28773), (545, 28719), (582, 28632), (586, 28623), (590, 28611), (606, 28584), (607, 28581), (614, 28566), (618, 28560), (659, 28479), (726, 28332), (768, 28230), (847, 28017), (850, 28008), (851, 28005), (855, 27987), (873, 27945), (889, 27915), (908, 27858), (974, 27699), (989, 27669), (1010, 27600), (1013, 27576), (1028, 27537), (1044, 27492),

Gene: Lederberg_42 Start: 32159, Stop: 34141, Start Num: 172
Candidate Starts for Lederberg_42:
(81, 31967), (132, 32102), (Start: 172 @32159 has 7 MA's), (Start: 186 @32174 has 1 MA's), (191, 32180), (274, 32294), (321, 32360), (386, 32477), (442, 32627), (495, 32756), (503, 32774), (508, 32792), (565, 32966), (570, 32981), (657, 33059), (675, 33092), (741, 33272), (770, 33341), (809, 33467), (841, 33569), (844, 33578), (849, 33593), (890, 33746), (927, 33842), (934, 33863), (981, 33962), (1013, 34061),

Gene: LeeLot_61 Start: 54638, Stop: 52779, Start Num: 190
Candidate Starts for LeeLot_61:

(Start: 173 @54662 has 3 MA's), (Start: 190 @54638 has 336 MA's), (Start: 222 @54614 has 3 MA's), (Start: 232 @54608 has 2 MA's), (261, 54566), (274, 54545), (336, 54431), (339, 54425), (355, 54395), (390, 54335), (398, 54314), (416, 54260), (429, 54248), (436, 54230), (440, 54218), (487, 54113), (552, 54056), (569, 54020), (573, 54008), (585, 53981), (611, 53936), (643, 53879), (648, 53870), (649, 53867), (796, 53507), (804, 53474), (812, 53453), (848, 53360), (851, 53351), (877, 53288), (900, 53252), (901, 53249), (906, 53234), (939, 53156), (946, 53144), (953, 53123), (976, 53084), (1013, 52994), (1022, 52976), (1024, 52970), (1032, 52955), (1040, 52931), (1042, 52916), (1043, 52913), (1047, 52901), (1059, 52877), (1082, 52829), (1093, 52805),

Gene: LeeroyJenkins_68 Start: 39223, Stop: 37388, Start Num: 294
Candidate Starts for LeeroyJenkins_68:
(279, 39238), (Start: 294 @39223 has 13 MA's), (304, 39208), (346, 39139), (386, 39079), (398, 39052), (399, 39049), (410, 39016), (414, 39004), (420, 38995), (422, 38986), (503, 38821), (509, 38803), (531, 38752), (533, 38743), (549, 38704), (559, 38683), (576, 38644), (593, 38611), (600, 38599), (604, 38593), (625, 38557), (644, 38524), (662, 38491), (679, 38464), (742, 38317), (772, 38260), (806, 38155), (820, 38107), (836, 38068), (840, 38059), (898, 37864), (917, 37837), (922, 37825), (944, 37813), (963, 37774), (987, 37726), (995, 37702), (1018, 37618), (1032, 37588), (1038, 37570), (1040, 37564), (1042, 37549), (1053, 37525), (1059, 37513), (1064, 37501), (1066, 37492), (1071, 37483), (1084, 37462), (1095, 37438), (1099, 37423),

Gene: Lego_41 Start: 29589, Stop: 31454, Start Num: 228
Candidate Starts for Lego_41:
(Start: 228 @29589 has 960 MA's), (261, 29637), (410, 29886), (452, 29976), (572, 30183), (576, 30192), (622, 30282), (626, 30291), (633, 30306), (660, 30351), (686, 30396), (707, 30444), (733, 30501), (768, 30582), (795, 30669), (803, 30702), (815, 30732), (836, 30789), (855, 30855), (898, 30948), (929, 31020), (977, 31128), (1009, 31191), (1013, 31215), (1058, 31326), (1066, 31350), (1071, 31359),

Gene: Lego3393_59 Start: 54589, Stop: 52730, Start Num: 190
Candidate Starts for Lego3393_59:
(Start: 173 @54613 has 3 MA's), (Start: 190 @54589 has 336 MA's), (Start: 222 @54565 has 3 MA's), (Start: 232 @54559 has 2 MA's), (261, 54517), (274, 54496), (336, 54382), (339, 54376), (355, 54346), (390, 54286), (398, 54265), (416, 54211), (429, 54199), (436, 54181), (440, 54169), (487, 54064), (552, 54007), (569, 53971), (573, 53959), (585, 53932), (601, 53905), (611, 53887), (622, 53869), (643, 53830), (648, 53821), (649, 53818), (796, 53458), (804, 53425), (812, 53404), (848, 53311), (851, 53302), (877, 53239), (900, 53203), (901, 53200), (906, 53185), (939, 53107), (946, 53095), (953, 53074), (976, 53035), (1013, 52945), (1022, 52927), (1024, 52921), (1032, 52906), (1040, 52882), (1042, 52867), (1043, 52864), (1047, 52852), (1059, 52828), (1082, 52780), (1093, 52756),

Gene: Legolas_62 Start: 54377, Stop: 52518, Start Num: 190
Candidate Starts for Legolas_62:
(Start: 173 @54401 has 3 MA's), (Start: 190 @54377 has 336 MA's), (Start: 222 @54353 has 3 MA's), (Start: 232 @54347 has 2 MA's), (261, 54305), (274, 54284), (336, 54170), (339, 54164), (355, 54134), (390, 54074), (398, 54053), (416, 53999), (429, 53987), (436, 53969), (440, 53957), (487, 53852), (552, 53795), (569, 53759), (573, 53747), (585, 53720), (611, 53675), (643, 53618), (648, 53609), (649, 53606), (796, 53246), (804, 53213), (812, 53192), (848, 53099), (851, 53090), (877, 53027), (900, 52991), (901, 52988), (906, 52973), (939, 52895), (946, 52883), (953, 52862), (976, 52823), (1013, 52733), (1022, 52715), (1024, 52709), (1032, 52694), (1040, 52670), (1042, 52655), (1043, 52652), (1047, 52640), (1059, 52616), (1082, 52568), (1093, 52544),

Gene: Lehmann_62 Start: 54149, Stop: 52290, Start Num: 190
Candidate Starts for Lehmann_62:

(Start: 173 @54173 has 3 MA's), (Start: 190 @54149 has 336 MA's), (Start: 222 @54125 has 3 MA's), (Start: 232 @54119 has 2 MA's), (261, 54077), (274, 54056), (336, 53942), (339, 53936), (355, 53906), (390, 53846), (398, 53825), (416, 53771), (429, 53759), (440, 53729), (487, 53624), (552, 53567), (569, 53531), (573, 53519), (585, 53492), (590, 53483), (611, 53447), (622, 53429), (643, 53390), (648, 53381), (649, 53378), (796, 53018), (804, 52985), (812, 52964), (848, 52871), (851, 52862), (877, 52799), (900, 52763), (901, 52760), (906, 52745), (939, 52667), (946, 52655), (953, 52634), (976, 52595), (1013, 52505), (1022, 52487), (1024, 52481), (1032, 52466), (1040, 52442), (1042, 52427), (1043, 52424), (1047, 52412), (1059, 52388), (1082, 52340), (1093, 52316),

Gene: LeiMonet_63 Start: 54494, Stop: 52635, Start Num: 190
Candidate Starts for LeiMonet_63:
(Start: 173 @54518 has 3 MA's), (Start: 190 @54494 has 336 MA's), (Start: 222 @54470 has 3 MA's), (Start: 232 @54464 has 2 MA's), (261, 54422), (274, 54401), (336, 54287), (339, 54281), (355, 54251), (390, 54191), (398, 54170), (416, 54116), (429, 54104), (436, 54086), (440, 54074), (487, 53969), (552, 53912), (569, 53876), (573, 53864), (583, 53840), (590, 53828), (601, 53810), (611, 53792), (622, 53774), (643, 53735), (648, 53726), (649, 53723), (651, 53720), (796, 53363), (804, 53330), (812, 53309), (848, 53216), (851, 53207), (877, 53144), (900, 53108), (901, 53105), (906, 53090), (939, 53012), (946, 53000), (953, 52979), (976, 52940), (1013, 52850), (1022, 52832), (1024, 52826), (1032, 52811), (1040, 52787), (1042, 52772), (1043, 52769), (1047, 52757), (1059, 52733), (1082, 52685), (1093, 52661),

Gene: LemonSlice_61 Start: 53968, Stop: 52109, Start Num: 190
Candidate Starts for LemonSlice_61:
(Start: 173 @53992 has 3 MA's), (Start: 190 @53968 has 336 MA's), (Start: 222 @53944 has 3 MA's), (Start: 232 @53938 has 2 MA's), (261, 53896), (274, 53875), (336, 53761), (339, 53755), (355, 53725), (390, 53665), (398, 53644), (416, 53590), (429, 53578), (436, 53560), (440, 53548), (487, 53443), (552, 53386), (569, 53350), (573, 53338), (585, 53311), (601, 53284), (611, 53266), (622, 53248), (643, 53209), (648, 53200), (649, 53197), (761, 52939), (796, 52837), (804, 52804), (812, 52783), (848, 52690), (851, 52681), (877, 52618), (900, 52582), (901, 52579), (906, 52564), (939, 52486), (946, 52474), (953, 52453), (976, 52414), (1013, 52324), (1022, 52306), (1024, 52300), (1032, 52285), (1040, 52261), (1042, 52246), (1043, 52243), (1047, 52231), (1059, 52207), (1082, 52159), (1093, 52135),

Gene: Lemur_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Lemur_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: LeoAvram_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for LeoAvram_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: LeoJr_98 Start: 78660, Stop: 80378, Start Num: 285
Candidate Starts for LeoJr_98:
(Start: 238 @78585 has 11 MA's), (Start: 273 @78639 has 1 MA's), (Start: 276 @78648 has 2 MA's), (Start: 285 @78660 has 1 MA's), (413, 78879), (429, 78897), (439, 78924), (442, 78930), (493, 79035),

(613, 79182), (626, 79209), (633, 79224), (666, 79278), (767, 79479), (774, 79506), (783, 79539), (798, 79578), (803, 79599), (806, 79605), (845, 79722), (870, 79806), (871, 79809), (898, 79872), (902, 79884), (919, 79920), (932, 79953), (953, 80007), (960, 80025), (1009, 80130), (1014, 80157), (1022, 80172), (1036, 80205), (1038, 80211), (1041, 80229), (1045, 80241), (1049, 80253), (1053, 80256), (1066, 80289), (1094, 80340),

Gene: Leogania_44 Start: 32411, Stop: 30624, Start Num: 228
Candidate Starts for Leogania_44:
(Start: 228 @32411 has 960 MA's), (362, 32204), (366, 32198), (375, 32183), (384, 32168), (410, 32105), (424, 32078), (435, 32057), (490, 31925), (570, 31832), (595, 31775), (607, 31760), (643, 31694), (686, 31613), (707, 31565), (709, 31559), (778, 31421), (803, 31340), (823, 31289), (835, 31256), (836, 31253), (840, 31244), (847, 31217), (855, 31187), (871, 31148), (895, 31127), (900, 31106), (992, 30908), (1009, 30872), (1013, 30848), (1038, 30791), (1042, 30770), (1066, 30713), (1073, 30701), (1079, 30692),

Gene: Lephleur_57 Start: 52497, Stop: 50668, Start Num: 190
Candidate Starts for Lephleur_57:
(Start: 190 @52497 has 336 MA's), (Start: 232 @52470 has 2 MA's), (Start: 255 @52440 has 8 MA's), (261, 52428), (Start: 276 @52401 has 2 MA's), (278, 52398), (284, 52389), (307, 52371), (362, 52275), (390, 52224), (399, 52200), (406, 52176), (467, 52038), (482, 52014), (487, 52002), (552, 51945), (569, 51909), (573, 51897), (583, 51873), (630, 51789), (648, 51759), (649, 51756), (664, 51726), (727, 51582), (755, 51516), (771, 51477), (775, 51465), (780, 51444), (787, 51426), (804, 51369), (840, 51285), (848, 51255), (851, 51246), (875, 51180), (897, 51153), (900, 51144), (906, 51126), (919, 51102), (939, 51048), (946, 51036), (953, 51015), (992, 50946), (1013, 50886), (1022, 50868), (1036, 50835), (1040, 50823), (1042, 50808), (1043, 50805), (1047, 50793), (1059, 50769), (1060, 50766), (1082, 50718), (1083, 50715), (1093, 50694), (1100, 50673),

Gene: LesNorah_10 Start: 8912, Stop: 6675, Start Num: 172
Candidate Starts for LesNorah_10:
(48, 9206), (67, 9152), (100, 9041), (113, 9008), (115, 9005), (120, 8996), (130, 8969), (Start: 172 @8912 has 7 MA's), (247, 8804), (257, 8798), (261, 8789), (Start: 285 @8753 has 1 MA's), (388, 8546), (395, 8531), (425, 8438), (451, 8378), (479, 8309), (508, 8231), (511, 8210), (515, 8195), (526, 8135), (556, 8054), (571, 8015), (645, 7910), (714, 7757), (753, 7673), (778, 7598), (802, 7517), (841, 7403), (844, 7391), (857, 7343), (877, 7265), (879, 7256), (910, 7166), (923, 7142), (935, 7112), (970, 7031), (1019, 6893), (1033, 6857), (1035, 6848), (1053, 6800), (1062, 6773), (1066, 6761), (1073, 6749),

Gene: Lesedi_42 Start: 33941, Stop: 32115, Start Num: 228
Candidate Starts for Lesedi_42:
(Start: 228 @33941 has 960 MA's), (366, 33728), (399, 33665), (410, 33635), (418, 33614), (424, 33608), (430, 33599), (479, 33482), (490, 33455), (570, 33362), (576, 33347), (590, 33314), (621, 33263), (622, 33260), (659, 33194), (680, 33164), (690, 33134), (709, 33089), (729, 33050), (803, 32870), (821, 32822), (836, 32783), (855, 32717), (871, 32678), (895, 32657), (900, 32636), (906, 32618), (935, 32552), (1009, 32402), (1010, 32399), (1018, 32363), (1032, 32339), (1035, 32330), (1039, 32318), (1066, 32243), (1079, 32222),

Gene: LestyG_57 Start: 53332, Stop: 51515, Start Num: 230
Candidate Starts for LestyG_57:
(46, 53716), (110, 53515), (Start: 230 @53332 has 52 MA's), (249, 53302), (366, 53122), (435, 52969), (439, 52957), (452, 52927), (458, 52921), (487, 52858), (489, 52852), (552, 52801), (569, 52765), (590, 52717), (649, 52612), (694, 52516), (722, 52465), (775, 52321), (787, 52282), (797, 52252), (804, 52225), (810, 52213), (846, 52117), (848, 52111), (851, 52102), (854, 52090), (883, 52018), (900, 51988), (906, 51970), (912, 51961), (939, 51892), (946, 51880), (953, 51859), (992, 51790),

(1002, 51775), (1010, 51751), (1013, 51730), (1024, 51706), (1040, 51667), (1043, 51649), (1047, 51637), (1054, 51625), (1059, 51613), (1078, 51571), (1093, 51541),

Gene: Lev2_38 Start: 30259, Stop: 28415, Start Num: 228
Candidate Starts for Lev2_38:
(Start: 228 @30259 has 960 MA's), (263, 30208), (304, 30148), (343, 30085), (360, 30055), (362, 30052), (396, 29995), (399, 29983), (410, 29953), (424, 29926), (465, 29824), (473, 29809), (490, 29773), (556, 29713), (570, 29677), (590, 29629), (637, 29545), (643, 29539), (685, 29467), (696, 29434), (703, 29419), (709, 29407), (761, 29308), (803, 29173), (815, 29143), (821, 29125), (823, 29122), (836, 29086), (840, 29077), (845, 29056), (848, 29047), (855, 29020), (856, 29017), (895, 28960), (900, 28939), (949, 28822), (977, 28768), (982, 28759), (992, 28741), (1022, 28663), (1041, 28606), (1058, 28570), (1066, 28546), (1073, 28534),

Gene: Levia_42 Start: 34436, Stop: 32610, Start Num: 228
Candidate Starts for Levia_42:
(Start: 228 @34436 has 960 MA's), (366, 34223), (373, 34208), (399, 34160), (410, 34130), (418, 34109), (424, 34103), (430, 34094), (479, 33977), (490, 33950), (570, 33857), (576, 33842), (583, 33821), (621, 33758), (622, 33755), (659, 33689), (680, 33659), (690, 33629), (709, 33584), (729, 33545), (803, 33365), (815, 33335), (821, 33317), (836, 33278), (855, 33212), (900, 33131), (901, 33128), (935, 33047), (1009, 32897), (1010, 32894), (1018, 32858), (1032, 32834), (1035, 32825), (1039, 32813), (1066, 32738), (1079, 32717),

Gene: Leviathan_46 Start: 31790, Stop: 30003, Start Num: 228
Candidate Starts for Leviathan_46:
(147, 31877), (Start: 228 @31790 has 960 MA's), (362, 31583), (366, 31577), (375, 31562), (384, 31547), (400, 31511), (410, 31484), (424, 31457), (435, 31436), (490, 31304), (570, 31211), (590, 31163), (595, 31154), (607, 31139), (643, 31073), (686, 30992), (707, 30944), (709, 30938), (803, 30719), (823, 30668), (835, 30635), (836, 30632), (855, 30566), (871, 30527), (895, 30506), (924, 30431), (929, 30419), (949, 30368), (982, 30305), (992, 30287), (1009, 30251), (1013, 30227), (1042, 30149), (1066, 30092), (1073, 30080), (1079, 30071),

Gene: Librie_37 Start: 26990, Stop: 25125, Start Num: 301
Candidate Starts for Librie_37:
(Start: 301 @26990 has 153 MA's), (304, 26984), (349, 26885), (353, 26876), (369, 26852), (378, 26837), (382, 26831), (402, 26780), (404, 26777), (442, 26696), (502, 26546), (533, 26543), (574, 26444), (585, 26417), (586, 26414), (590, 26402), (607, 26372), (618, 26351), (636, 26315), (706, 26168), (751, 26066), (777, 25988), (847, 25808), (855, 25778), (878, 25724), (889, 25706), (908, 25649), (917, 25622), (933, 25580), (949, 25541), (989, 25460), (992, 25451), (1010, 25391), (1013, 25367), (1017, 25355), (1020, 25346), (1028, 25328), (1040, 25295), (1068, 25223),

Gene: Licorice_48 Start: 36210, Stop: 34423, Start Num: 228
Candidate Starts for Licorice_48:
(Start: 228 @36210 has 960 MA's), (366, 35997), (373, 35982), (410, 35904), (418, 35883), (424, 35877), (430, 35868), (479, 35751), (490, 35724), (570, 35631), (576, 35616), (590, 35583), (621, 35532), (622, 35529), (654, 35475), (659, 35463), (680, 35433), (690, 35403), (709, 35358), (729, 35319), (803, 35139), (821, 35091), (836, 35052), (855, 34986), (897, 34914), (900, 34905), (935, 34821), (977, 34734), (1032, 34608), (1036, 34596), (1066, 34512), (1069, 34506),

Gene: Liebe_42 Start: 31253, Stop: 33223, Start Num: 135
Candidate Starts for Liebe_42:
(Start: 135 @31253 has 1 MA's), (138, 31256), (Start: 228 @31379 has 960 MA's), (410, 31676), (572, 31952), (623, 32054), (633, 32075), (707, 32213), (736, 32276), (803, 32471), (806, 32477), (815, 32501), (836, 32558), (853, 32615), (855, 32624), (906, 32741), (929, 32789), (1006, 32948), (1009,

32960), (1038, 33041), (1066, 33119), (1090, 33164),

Gene: Lifes_61 Start: 36067, Stop: 34232, Start Num: 294
Candidate Starts for Lifes_61:
(279, 36082), (Start: 294 @36067 has 13 MA's), (304, 36052), (346, 35983), (386, 35923), (398, 35896), (399, 35893), (410, 35860), (414, 35848), (420, 35839), (422, 35830), (503, 35665), (504, 35659), (538, 35566), (559, 35527), (576, 35488), (593, 35455), (600, 35443), (604, 35437), (625, 35401), (628, 35395), (644, 35368), (662, 35335), (679, 35308), (742, 35161), (772, 35104), (806, 34999), (820, 34951), (836, 34912), (840, 34903), (898, 34708), (917, 34681), (922, 34669), (944, 34657), (963, 34618), (987, 34570), (995, 34546), (1018, 34462), (1032, 34432), (1038, 34414), (1040, 34408), (1042, 34393), (1053, 34369), (1059, 34357), (1064, 34345), (1066, 34336), (1071, 34327), (1084, 34306), (1095, 34282), (1099, 34267),

Gene: Ligma_51 Start: 45981, Stop: 44164, Start Num: 225
Candidate Starts for Ligma_51:
(53, 46302), (61, 46278), (Start: 225 @45981 has 16 MA's), (249, 45945), (261, 45930), (278, 45900), (351, 45774), (411, 45651), (416, 45636), (440, 45594), (487, 45498), (569, 45405), (635, 45276), (649, 45252), (780, 44940), (787, 44922), (804, 44865), (848, 44751), (851, 44742), (877, 44679), (901, 44640), (906, 44625), (939, 44547), (946, 44535), (953, 44514), (955, 44505), (1007, 44418), (1014, 44382), (1018, 44370), (1037, 44331), (1040, 44322), (1042, 44307), (1059, 44262), (1093, 44190),

Gene: LilBib_45 Start: 35268, Stop: 33442, Start Num: 228
Candidate Starts for LilBib_45:
(Start: 228 @35268 has 960 MA's), (366, 35055), (373, 35040), (399, 34992), (410, 34962), (418, 34941), (424, 34935), (430, 34926), (479, 34809), (490, 34782), (570, 34689), (576, 34674), (590, 34641), (621, 34590), (622, 34587), (659, 34521), (680, 34491), (690, 34461), (709, 34416), (729, 34377), (803, 34197), (821, 34149), (840, 34101), (851, 34062), (855, 34044), (871, 34005), (895, 33984), (900, 33963), (905, 33948), (955, 33825), (1018, 33690), (1032, 33666), (1035, 33657), (1039, 33645), (1066, 33570), (1079, 33549),

Gene: LilMcDreamy_55 Start: 53828, Stop: 51987, Start Num: 182
Candidate Starts for LilMcDreamy_55:
(Start: 182 @53828 has 33 MA's), (Start: 232 @53786 has 2 MA's), (249, 53759), (362, 53591), (398, 53519), (406, 53492), (435, 53441), (457, 53396), (458, 53393), (472, 53360), (476, 53351), (487, 53330), (569, 53237), (573, 53225), (590, 53189), (622, 53135), (630, 53117), (643, 53096), (648, 53087), (649, 53084), (696, 52985), (722, 52937), (775, 52793), (787, 52754), (804, 52697), (812, 52676), (826, 52646), (848, 52583), (851, 52574), (856, 52553), (883, 52490), (900, 52460), (906, 52442), (939, 52364), (946, 52352), (953, 52331), (955, 52322), (1013, 52202), (1040, 52139), (1041, 52127), (1054, 52097), (1059, 52085), (1078, 52043), (1093, 52013),

Gene: LilSmirk_57 Start: 52488, Stop: 50659, Start Num: 190
Candidate Starts for LilSmirk_57:
(Start: 190 @52488 has 336 MA's), (Start: 232 @52461 has 2 MA's), (Start: 255 @52431 has 8 MA's), (261, 52419), (Start: 276 @52392 has 2 MA's), (278, 52389), (284, 52380), (307, 52362), (362, 52266), (390, 52215), (399, 52191), (467, 52029), (482, 52005), (487, 51993), (552, 51936), (569, 51900), (573, 51888), (583, 51864), (630, 51780), (648, 51750), (649, 51747), (664, 51717), (727, 51573), (755, 51507), (775, 51456), (780, 51435), (787, 51417), (804, 51360), (831, 51303), (840, 51276), (848, 51246), (851, 51237), (875, 51171), (897, 51144), (900, 51135), (906, 51117), (919, 51093), (939, 51039), (946, 51027), (953, 51006), (992, 50937), (1013, 50877), (1022, 50859), (1036, 50826), (1040, 50814), (1042, 50799), (1043, 50796), (1047, 50784), (1059, 50760), (1060, 50757), (1082, 50709), (1083, 50706), (1093, 50685), (1100, 50664),

Gene: LilTerminator_37 Start: 27012, Stop: 25147, Start Num: 301
Candidate Starts for LilTerminator_37:
(Start: 301 @27012 has 153 MA's), (304, 27006), (349, 26907), (353, 26898), (369, 26874), (378, 26859), (382, 26853), (402, 26802), (404, 26799), (442, 26718), (502, 26568), (533, 26565), (574, 26466), (585, 26439), (586, 26436), (590, 26424), (607, 26394), (618, 26373), (636, 26337), (706, 26190), (735, 26121), (773, 26022), (777, 26010), (847, 25830), (855, 25800), (878, 25746), (889, 25728), (908, 25671), (917, 25644), (933, 25602), (989, 25482), (992, 25473), (1010, 25413), (1013, 25389), (1017, 25377), (1020, 25368), (1028, 25350), (1040, 25317), (1068, 25245),

Gene: LilTurb_45 Start: 31623, Stop: 29836, Start Num: 228
Candidate Starts for LilTurb_45:
(Start: 228 @31623 has 960 MA's), (362, 31416), (366, 31410), (375, 31395), (384, 31380), (400, 31344), (410, 31317), (424, 31290), (435, 31269), (490, 31137), (570, 31044), (590, 30996), (595, 30987), (607, 30972), (643, 30906), (686, 30825), (707, 30777), (709, 30771), (742, 30708), (803, 30552), (823, 30501), (835, 30468), (836, 30465), (855, 30399), (871, 30360), (895, 30339), (924, 30264), (929, 30252), (949, 30201), (982, 30138), (992, 30120), (1009, 30084), (1013, 30060), (1042, 29982), (1066, 29925), (1073, 29913), (1079, 29904),

Gene: Lilbooboo_34 Start: 26910, Stop: 28784, Start Num: 228
Candidate Starts for Lilbooboo_34:
(Start: 228 @26910 has 960 MA's), (Start: 241 @26931 has 3 MA's), (249, 26943), (278, 26991), (360, 27111), (410, 27213), (411, 27216), (418, 27234), (430, 27249), (473, 27357), (492, 27399), (599, 27546), (606, 27558), (621, 27588), (626, 27600), (635, 27618), (658, 27654), (696, 27732), (702, 27744), (707, 27753), (733, 27810), (735, 27813), (784, 27951), (796, 27981), (803, 28011), (821, 28062), (836, 28104), (845, 28134), (847, 28140), (848, 28143), (851, 28152), (853, 28161), (855, 28170), (870, 28236), (897, 28290), (945, 28404), (977, 28473), (1002, 28515), (1007, 28527), (1018, 28575), (1024, 28584), (1036, 28611), (1038, 28617), (1042, 28638), (1066, 28695), (1069, 28701), (1079, 28716),

Gene: Lilbunny_44 Start: 29422, Stop: 27581, Start Num: 228
Candidate Starts for Lilbunny_44:
(Start: 200 @29452 has 1 MA's), (Start: 228 @29422 has 960 MA's), (360, 29218), (399, 29143), (400, 29140), (410, 29113), (415, 29098), (424, 29086), (448, 29035), (485, 28945), (490, 28933), (570, 28840), (585, 28801), (595, 28783), (607, 28768), (643, 28702), (660, 28669), (663, 28666), (710, 28564), (742, 28504), (778, 28420), (803, 28339), (835, 28255), (836, 28252), (840, 28243), (847, 28216), (855, 28186), (895, 28126), (906, 28087), (1009, 27871), (1010, 27868), (1013, 27847), (1066, 27712), (1073, 27700), (1079, 27691), (1082, 27688), (1115, 27595),

Gene: Lilith_49 Start: 31846, Stop: 30032, Start Num: 228
Candidate Starts for Lilith_49:
(Start: 228 @31846 has 960 MA's), (257, 31807), (263, 31795), (360, 31642), (369, 31627), (399, 31570), (424, 31513), (430, 31504), (448, 31462), (465, 31411), (490, 31360), (570, 31267), (590, 31219), (595, 31210), (607, 31195), (626, 31156), (643, 31129), (659, 31099), (703, 31006), (709, 30994), (732, 30946), (742, 30931), (803, 30775), (836, 30688), (855, 30622), (871, 30583), (901, 30511), (919, 30472), (929, 30448), (935, 30430), (949, 30397), (958, 30370), (992, 30316), (1013, 30256), (1042, 30178), (1066, 30121), (1073, 30109), (1079, 30100),

Gene: Lilleskat_43 Start: 31443, Stop: 29650, Start Num: 228
Candidate Starts for Lilleskat_43:
(Start: 228 @31443 has 960 MA's), (235, 31434), (263, 31392), (342, 31272), (343, 31269), (370, 31221), (400, 31161), (411, 31131), (415, 31119), (424, 31107), (490, 30954), (570, 30861), (643, 30723), (659, 30693), (733, 30534), (742, 30522), (764, 30495), (798, 30387), (803, 30366), (851, 30231), (855, 30213), (900, 30132), (919, 30090), (949, 30015), (955, 29994), (990, 29940), (1009,

29898), (1042, 29796), (1066, 29739), (1073, 29727), (1079, 29718),

Gene: Lillie_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for Lillie_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (710, 27261), (729, 27225), (803, 27045), (821, 26997), (855, 26892), (856, 26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1079, 26397), (1094, 26367), (1100, 26349),

Gene: Lilo27_43 Start: 29479, Stop: 31353, Start Num: 217
Candidate Starts for Lilo27_43:
(Start: 215 @29476 has 12 MA's), (Start: 217 @29479 has 68 MA's), (Start: 273 @29548 has 1 MA's), (Start: 285 @29569 has 1 MA's), (399, 29749), (430, 29815), (448, 29857), (626, 30151), (696, 30286), (741, 30385), (784, 30508), (803, 30568), (806, 30574), (823, 30619), (833, 30649), (845, 30685), (855, 30721), (898, 30814), (936, 30907), (973, 30985), (1009, 31057), (1018, 31096), (1038, 31138), (1041, 31156), (1066, 31216), (1079, 31237),

Gene: LilyLou_11 Start: 9029, Stop: 6786, Start Num: 163
Candidate Starts for LilyLou_11:
(118, 9110), (123, 9098), (147, 9053), (Start: 163 @9029 has 29 MA's), (247, 8915), (257, 8909), (Start: 285 @8864 has 1 MA's), (323, 8786), (388, 8657), (395, 8642), (451, 8489), (508, 8342), (515, 8306), (526, 8246), (556, 8165), (571, 8126), (645, 8021), (714, 7868), (753, 7784), (778, 7709), (841, 7514), (844, 7502), (857, 7454), (877, 7376), (879, 7367), (910, 7277), (913, 7271), (923, 7253), (935, 7223), (970, 7142), (1019, 7004), (1033, 6968), (1035, 6959), (1053, 6911), (1062, 6884), (1066, 6872), (1073, 6860),

Gene: LimaBean_42 Start: 29163, Stop: 31037, Start Num: 217
Candidate Starts for LimaBean_42:
(Start: 215 @29160 has 12 MA's), (Start: 217 @29163 has 68 MA's), (Start: 273 @29232 has 1 MA's), (Start: 285 @29253 has 1 MA's), (430, 29499), (448, 29541), (626, 29835), (741, 30069), (784, 30192), (803, 30252), (806, 30258), (823, 30303), (830, 30318), (833, 30333), (845, 30369), (855, 30405), (898, 30498), (936, 30591), (973, 30669), (1009, 30741), (1010, 30744), (1018, 30780), (1038, 30822), (1041, 30840), (1058, 30876), (1066, 30900), (1079, 30921),

Gene: LionsBait_46 Start: 32821, Stop: 31028, Start Num: 228
Candidate Starts for LionsBait_46:
(Start: 228 @32821 has 960 MA's), (362, 32614), (366, 32608), (375, 32593), (384, 32578), (400, 32542), (410, 32515), (424, 32488), (435, 32467), (490, 32335), (570, 32242), (590, 32194), (595, 32185), (607, 32170), (686, 32023), (707, 31975), (709, 31969), (729, 31930), (803, 31750), (815, 31720), (823, 31693), (835, 31660), (836, 31657), (855, 31591), (871, 31552), (895, 31531), (897, 31519), (900, 31510), (904, 31498), (949, 31393), (990, 31318), (992, 31312), (1009, 31276), (1013, 31252), (1042, 31174), (1066, 31117), (1073, 31105), (1079, 31096),

Gene: LisoBros_41 Start: 32535, Stop: 34400, Start Num: 228
Candidate Starts for LisoBros_41:
(Start: 228 @32535 has 960 MA's), (343, 32709), (400, 32805), (410, 32832), (430, 32868), (435, 32880), (473, 32976), (622, 33228), (626, 33237), (633, 33252), (635, 33255), (686, 33342), (707, 33390), (803, 33648), (812, 33669), (823, 33699), (828, 33711), (845, 33765), (855, 33801), (878, 33852), (879, 33855), (945, 34005), (1010, 34140), (1013, 34161), (1022, 34179), (1024, 34185), (1038, 34218), (1066, 34296), (1083, 34323),

Gene: LittleB_45 Start: 31571, Stop: 29745, Start Num: 228
Candidate Starts for LittleB_45:
(Start: 228 @31571 has 960 MA's), (Start: 241 @31550 has 3 MA's), (263, 31520), (278, 31490), (384, 31328), (394, 31310), (424, 31238), (430, 31229), (480, 31109), (490, 31085), (570, 30992), (592, 30944), (607, 30923), (626, 30884), (696, 30752), (707, 30731), (729, 30686), (733, 30674), (798, 30521), (803, 30500), (847, 30377), (855, 30347), (871, 30308), (900, 30242), (901, 30239), (906, 30224), (919, 30200), (929, 30176), (1013, 29969), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: LittleCherry_39 Start: 30596, Stop: 28731, Start Num: 228
Candidate Starts for LittleCherry_39:
(Start: 228 @30596 has 960 MA's), (263, 30545), (304, 30485), (343, 30422), (360, 30392), (362, 30389), (396, 30332), (399, 30320), (410, 30290), (424, 30263), (490, 30110), (570, 30014), (590, 29966), (637, 29882), (643, 29876), (685, 29804), (696, 29771), (703, 29756), (709, 29744), (761, 29645), (803, 29510), (815, 29480), (821, 29462), (830, 29444), (836, 29423), (840, 29414), (855, 29357), (871, 29318), (900, 29276), (906, 29258), (929, 29210), (949, 29159), (977, 29105), (982, 29096), (992, 29078), (1013, 29018), (1022, 29000), (1058, 28907), (1066, 28883), (1073, 28871), (1115, 28766),

Gene: LittleDigger_52 Start: 53011, Stop: 51188, Start Num: 182
Candidate Starts for LittleDigger_52:
(Start: 163 @53029 has 29 MA's), (Start: 182 @53011 has 33 MA's), (Start: 232 @52987 has 2 MA's), (249, 52960), (261, 52945), (274, 52924), (324, 52837), (386, 52732), (402, 52690), (436, 52624), (449, 52594), (452, 52585), (457, 52582), (458, 52579), (552, 52459), (560, 52441), (569, 52423), (573, 52411), (580, 52396), (585, 52384), (648, 52273), (649, 52270), (664, 52240), (685, 52204), (775, 51979), (776, 51976), (787, 51940), (796, 51916), (804, 51883), (846, 51775), (848, 51769), (851, 51760), (900, 51661), (901, 51658), (906, 51643), (939, 51565), (946, 51553), (953, 51532), (955, 51523), (976, 51493), (992, 51463), (1007, 51436), (1013, 51403), (1022, 51385), (1024, 51379), (1040, 51340), (1043, 51322), (1047, 51310), (1059, 51286), (1078, 51244), (1082, 51238), (1093, 51214),

Gene: LittleGuy_45 Start: 31466, Stop: 29640, Start Num: 228
Candidate Starts for LittleGuy_45:
(Start: 228 @31466 has 960 MA's), (Start: 241 @31445 has 3 MA's), (263, 31415), (278, 31385), (384, 31223), (394, 31205), (424, 31133), (430, 31124), (480, 31004), (490, 30980), (570, 30887), (592, 30839), (607, 30818), (626, 30779), (696, 30647), (707, 30626), (729, 30581), (733, 30569), (798, 30416), (803, 30395), (847, 30272), (855, 30242), (871, 30203), (900, 30137), (901, 30134), (906, 30119), (919, 30095), (929, 30071), (1013, 29864), (1066, 29729), (1073, 29717), (1079, 29708),

Gene: LittleMinkey_63 Start: 54222, Stop: 52378, Start Num: 215
Candidate Starts for LittleMinkey_63:
(Start: 215 @54222 has 12 MA's), (261, 54165), (Start: 276 @54138 has 2 MA's), (339, 54036), (390, 53949), (409, 53895), (416, 53874), (435, 53850), (440, 53835), (487, 53730), (569, 53637), (573, 53625), (590, 53589), (649, 53484), (722, 53337), (750, 53253), (753, 53247), (775, 53187), (776, 53184), (787, 53148), (796, 53124), (804, 53091), (846, 52983), (848, 52977), (851, 52968), (887, 52884), (900, 52854), (906, 52836), (939, 52758), (946, 52746), (953, 52725), (992, 52656), (1002, 52641), (1013, 52596), (1024, 52572), (1040, 52533), (1042, 52518), (1047, 52503), (1059, 52479), (1078, 52434), (1082, 52428), (1093, 52404),

Gene: LittleMunchkin_52 Start: 48656, Stop: 46845, Start Num: 221
Candidate Starts for LittleMunchkin_52:
(Start: 221 @48656 has 14 MA's), (259, 48608), (261, 48605), (274, 48584), (278, 48575), (355, 48446), (406, 48338), (411, 48326), (435, 48287), (440, 48272), (476, 48197), (487, 48176), (569, 48083), (632, 47960), (649, 47930), (775, 47639), (804, 47543), (846, 47438), (848, 47432), (851,

47423), (877, 47360), (897, 47333), (906, 47306), (915, 47291), (919, 47282), (939, 47228), (946, 47216), (953, 47195), (1002, 47111), (1007, 47099), (1014, 47063), (1040, 47003), (1042, 46988), (1059, 46943), (1082, 46895), (1093, 46871),

Gene: LizLemon_57 Start: 52610, Stop: 50781, Start Num: 190
Candidate Starts for LizLemon_57:
(Start: 190 @52610 has 336 MA's), (Start: 232 @52583 has 2 MA's), (Start: 255 @52553 has 8 MA's), (261, 52541), (Start: 276 @52514 has 2 MA's), (278, 52511), (284, 52502), (307, 52484), (362, 52388), (390, 52337), (399, 52313), (406, 52289), (467, 52151), (482, 52127), (487, 52115), (552, 52058), (569, 52022), (573, 52010), (583, 51986), (630, 51902), (648, 51872), (649, 51869), (664, 51839), (727, 51695), (755, 51629), (771, 51590), (775, 51578), (780, 51557), (787, 51539), (804, 51482), (840, 51398), (848, 51368), (851, 51359), (875, 51293), (897, 51266), (900, 51257), (906, 51239), (919, 51215), (939, 51161), (946, 51149), (953, 51128), (992, 51059), (1013, 50999), (1022, 50981), (1036, 50948), (1040, 50936), (1042, 50921), (1043, 50918), (1047, 50906), (1059, 50882), (1060, 50879), (1082, 50831), (1083, 50828), (1093, 50807), (1100, 50786),

Gene: Lizalica_39 Start: 28785, Stop: 30650, Start Num: 228
Candidate Starts for Lizalica_39:
(Start: 228 @28785 has 960 MA's), (261, 28833), (410, 29082), (452, 29172), (572, 29379), (576, 29388), (622, 29478), (626, 29487), (633, 29502), (660, 29547), (686, 29592), (707, 29640), (733, 29697), (768, 29778), (795, 29865), (803, 29898), (815, 29928), (836, 29985), (853, 30042), (855, 30051), (977, 30324), (1009, 30387), (1066, 30546), (1071, 30555), (1107, 30633),

Gene: LochMonster_46 Start: 31806, Stop: 29980, Start Num: 228
Candidate Starts for LochMonster_46:
(Start: 228 @31806 has 960 MA's), (Start: 241 @31785 has 3 MA's), (263, 31755), (278, 31725), (384, 31563), (394, 31545), (424, 31473), (430, 31464), (480, 31344), (490, 31320), (570, 31227), (592, 31179), (607, 31158), (626, 31119), (654, 31074), (657, 31068), (696, 30987), (707, 30966), (729, 30921), (733, 30909), (798, 30756), (803, 30735), (847, 30612), (855, 30582), (871, 30543), (900, 30477), (901, 30474), (906, 30459), (919, 30435), (929, 30411), (1013, 30204), (1066, 30069), (1073, 30057), (1079, 30048),

Gene: Lockley_44 Start: 34369, Stop: 32543, Start Num: 228
Candidate Starts for Lockley_44:
(Start: 228 @34369 has 960 MA's), (366, 34156), (399, 34093), (410, 34063), (424, 34036), (430, 34027), (479, 33910), (490, 33883), (570, 33790), (576, 33775), (621, 33691), (622, 33688), (659, 33622), (680, 33592), (690, 33562), (709, 33517), (729, 33478), (803, 33298), (821, 33250), (836, 33211), (855, 33145), (871, 33106), (895, 33085), (900, 33064), (906, 33046), (935, 32980), (1009, 32830), (1010, 32827), (1018, 32791), (1035, 32758), (1039, 32746), (1066, 32671), (1079, 32650),

Gene: LogiBear_45 Start: 29753, Stop: 27963, Start Num: 228
Candidate Starts for LogiBear_45:
(Start: 228 @29753 has 960 MA's), (267, 29693), (366, 29540), (399, 29474), (410, 29444), (411, 29441), (424, 29417), (435, 29396), (448, 29366), (485, 29276), (490, 29264), (570, 29171), (587, 29126), (590, 29123), (595, 29114), (635, 29042), (688, 28946), (707, 28904), (709, 28898), (729, 28859), (798, 28700), (803, 28679), (823, 28628), (830, 28613), (847, 28556), (855, 28526), (871, 28487), (895, 28466), (897, 28454), (900, 28445), (904, 28433), (919, 28403), (949, 28328), (1009, 28211), (1018, 28172), (1045, 28100), (1066, 28052), (1073, 28040),

Gene: Lokk_45 Start: 31915, Stop: 30128, Start Num: 228
Candidate Starts for Lokk_45:
(Start: 228 @31915 has 960 MA's), (362, 31708), (366, 31702), (384, 31672), (399, 31639), (400, 31636), (415, 31594), (424, 31582), (490, 31429), (570, 31336), (590, 31288), (595, 31279), (607,

31264), (643, 31198), (707, 31069), (771, 30949), (778, 30925), (803, 30844), (823, 30793), (835, 30760), (836, 30757), (855, 30691), (871, 30652), (895, 30631), (924, 30556), (929, 30544), (958, 30466), (982, 30430), (992, 30412), (1009, 30376), (1013, 30352), (1042, 30274), (1066, 30217), (1073, 30205), (1079, 30196),

Gene: Lolalove_54 Start: 54016, Stop: 52190, Start Num: 182
Candidate Starts for Lolalove_54:
(Start: 182 @54016 has 33 MA's), (Start: 232 @53989 has 2 MA's), (249, 53962), (261, 53947), (274, 53926), (324, 53839), (386, 53734), (398, 53707), (402, 53692), (436, 53626), (449, 53596), (452, 53587), (457, 53584), (458, 53581), (552, 53461), (560, 53443), (569, 53425), (573, 53413), (585, 53386), (622, 53323), (643, 53284), (648, 53275), (649, 53272), (664, 53242), (685, 53206), (775, 52981), (776, 52978), (787, 52942), (796, 52918), (804, 52885), (846, 52777), (848, 52771), (851, 52762), (900, 52663), (901, 52660), (906, 52645), (939, 52567), (946, 52555), (953, 52534), (955, 52525), (976, 52495), (992, 52465), (1007, 52438), (1013, 52405), (1024, 52381), (1040, 52342), (1043, 52324), (1047, 52312), (1059, 52288), (1078, 52246), (1082, 52240), (1093, 52216),

Gene: London_39 Start: 30351, Stop: 32216, Start Num: 228
Candidate Starts for London_39:
(Start: 228 @30351 has 960 MA's), (261, 30399), (383, 30582), (386, 30588), (410, 30648), (418, 30669), (452, 30738), (576, 30954), (622, 31044), (626, 31053), (633, 31068), (660, 31113), (707, 31206), (768, 31344), (803, 31464), (815, 31494), (836, 31551), (853, 31608), (855, 31617), (867, 31641), (898, 31710), (929, 31782), (932, 31791), (977, 31890), (1009, 31953), (1066, 32112), (1071, 32121),

Gene: LoneWolf_45 Start: 31301, Stop: 29508, Start Num: 228
Candidate Starts for LoneWolf_45:
(Start: 228 @31301 has 960 MA's), (235, 31292), (360, 31097), (384, 31055), (400, 31019), (410, 30992), (424, 30965), (448, 30914), (480, 30836), (490, 30812), (570, 30719), (587, 30674), (659, 30551), (764, 30353), (767, 30347), (803, 30224), (840, 30128), (847, 30101), (855, 30071), (871, 30032), (897, 29999), (900, 29990), (949, 29873), (955, 29852), (1013, 29732), (1042, 29654), (1066, 29597), (1073, 29585), (1079, 29576),

Gene: Longacauda_61 Start: 54397, Stop: 52538, Start Num: 190
Candidate Starts for Longacauda_61:
(Start: 173 @54421 has 3 MA's), (Start: 190 @54397 has 336 MA's), (Start: 222 @54373 has 3 MA's), (Start: 232 @54367 has 2 MA's), (261, 54325), (274, 54304), (336, 54190), (339, 54184), (355, 54154), (390, 54094), (398, 54073), (416, 54019), (429, 54007), (436, 53989), (440, 53977), (487, 53872), (552, 53815), (569, 53779), (573, 53767), (585, 53740), (611, 53695), (643, 53638), (648, 53629), (649, 53626), (761, 53368), (796, 53266), (804, 53233), (812, 53212), (848, 53119), (851, 53110), (877, 53047), (900, 53011), (901, 53008), (906, 52993), (939, 52915), (946, 52903), (953, 52882), (976, 52843), (1013, 52753), (1022, 52735), (1024, 52729), (1032, 52714), (1040, 52690), (1042, 52675), (1043, 52672), (1047, 52660), (1059, 52636), (1082, 52588), (1093, 52564),

Gene: Looper_47 Start: 29720, Stop: 27930, Start Num: 228
Candidate Starts for Looper_47:
(Start: 228 @29720 has 960 MA's), (343, 29546), (399, 29441), (400, 29438), (410, 29411), (424, 29384), (448, 29333), (490, 29231), (570, 29138), (587, 29093), (590, 29090), (595, 29081), (686, 28919), (696, 28892), (707, 28871), (709, 28865), (768, 28766), (778, 28727), (796, 28676), (803, 28646), (823, 28595), (835, 28562), (845, 28529), (847, 28523), (855, 28493), (895, 28433), (900, 28412), (919, 28370), (930, 28343), (935, 28328), (977, 28241), (1009, 28178), (1010, 28175), (1066, 28019), (1073, 28007), (1082, 27995),

Gene: Lopsy_59 Start: 53696, Stop: 51837, Start Num: 190

Candidate Starts for Lopsy_59:
(Start: 173 @53720 has 3 MA's), (Start: 190 @53696 has 336 MA's), (Start: 222 @53672 has 3 MA's), (Start: 232 @53666 has 2 MA's), (261, 53624), (274, 53603), (336, 53489), (339, 53483), (355, 53453), (390, 53393), (398, 53372), (416, 53318), (429, 53306), (436, 53288), (439, 53279), (440, 53276), (487, 53171), (552, 53114), (569, 53078), (573, 53066), (583, 53042), (590, 53030), (601, 53012), (611, 52994), (622, 52976), (643, 52937), (648, 52928), (649, 52925), (651, 52922), (796, 52565), (804, 52532), (812, 52511), (848, 52418), (851, 52409), (877, 52346), (900, 52310), (901, 52307), (906, 52292), (939, 52214), (946, 52202), (953, 52181), (976, 52142), (1013, 52052), (1024, 52028), (1032, 52013), (1040, 51989), (1042, 51974), (1043, 51971), (1047, 51959), (1059, 51935), (1082, 51887), (1093, 51863),

Gene: Lopton_45 Start: 35870, Stop: 34044, Start Num: 228
Candidate Starts for Lopton_45:
(Start: 228 @35870 has 960 MA's), (366, 35657), (399, 35594), (410, 35564), (418, 35543), (424, 35537), (430, 35528), (479, 35411), (490, 35384), (570, 35291), (576, 35276), (590, 35243), (621, 35192), (622, 35189), (659, 35123), (680, 35093), (690, 35063), (709, 35018), (729, 34979), (803, 34799), (821, 34751), (836, 34712), (855, 34646), (871, 34607), (895, 34586), (900, 34565), (906, 34547), (935, 34481), (1009, 34331), (1010, 34328), (1018, 34292), (1032, 34268), (1039, 34247), (1045, 34220), (1066, 34172), (1079, 34151),

Gene: Lorenzo_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Lorenzo_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Loser_46 Start: 32256, Stop: 30469, Start Num: 228
Candidate Starts for Loser_46:
(Start: 228 @32256 has 960 MA's), (360, 32052), (362, 32049), (375, 32028), (384, 32013), (399, 31980), (410, 31950), (424, 31923), (435, 31902), (448, 31872), (490, 31770), (570, 31677), (590, 31629), (595, 31620), (607, 31605), (643, 31539), (686, 31458), (707, 31410), (744, 31338), (778, 31266), (803, 31185), (823, 31134), (835, 31101), (836, 31098), (855, 31032), (871, 30993), (895, 30972), (917, 30915), (924, 30897), (958, 30807), (982, 30771), (992, 30753), (1009, 30717), (1013, 30693), (1038, 30636), (1042, 30615), (1066, 30558), (1073, 30546), (1079, 30537),

Gene: LostAndPhound_61 Start: 54582, Stop: 52723, Start Num: 190
Candidate Starts for LostAndPhound_61:
(Start: 173 @54606 has 3 MA's), (Start: 190 @54582 has 336 MA's), (Start: 222 @54558 has 3 MA's), (Start: 232 @54552 has 2 MA's), (261, 54510), (274, 54489), (336, 54375), (339, 54369), (355, 54339), (390, 54279), (398, 54258), (416, 54204), (429, 54192), (436, 54174), (440, 54162), (487, 54057), (552, 54000), (569, 53964), (573, 53952), (585, 53925), (601, 53898), (611, 53880), (622, 53862), (643, 53823), (648, 53814), (649, 53811), (761, 53553), (796, 53451), (804, 53418), (812, 53397), (848, 53304), (851, 53295), (877, 53232), (900, 53196), (901, 53193), (906, 53178), (939, 53100), (946, 53088), (953, 53067), (976, 53028), (1013, 52938), (1022, 52920), (1024, 52914), (1032, 52899), (1040, 52875), (1042, 52860), (1043, 52857), (1047, 52845), (1059, 52821), (1082, 52773), (1093, 52749),

Gene: Louie6_47 Start: 31885, Stop: 30071, Start Num: 228
Candidate Starts for Louie6_47:
(Start: 228 @31885 has 960 MA's), (257, 31846), (263, 31834), (360, 31681), (369, 31666), (399, 31609), (424, 31552), (430, 31543), (448, 31501), (465, 31450), (490, 31399), (552, 31345), (570,

31306), (590, 31258), (607, 31234), (626, 31195), (643, 31168), (659, 31138), (703, 31045), (709, 31033), (732, 30985), (742, 30970), (803, 30814), (823, 30763), (835, 30730), (836, 30727), (855, 30661), (871, 30622), (901, 30550), (919, 30511), (929, 30487), (935, 30469), (949, 30436), (992, 30355), (1013, 30295), (1045, 30208), (1066, 30160), (1073, 30148), (1079, 30139), (1082, 30136),

Gene: Lovelyunicorn_39 Start: 28935, Stop: 27070, Start Num: 301
Candidate Starts for Lovelyunicorn_39:
(Start: 241 @29022 has 3 MA's), (Start: 243 @29019 has 1 MA's), (288, 28950), (Start: 301 @28935 has 153 MA's), (Start: 305 @28926 has 5 MA's), (353, 28821), (360, 28812), (378, 28782), (380, 28779), (435, 28659), (439, 28647), (442, 28641), (483, 28536), (494, 28509), (582, 28368), (586, 28359), (590, 28347), (606, 28320), (607, 28317), (614, 28302), (618, 28296), (621, 28290), (638, 28257), (726, 28068), (847, 27753), (850, 27744), (851, 27741), (855, 27723), (873, 27681), (877, 27675), (888, 27651), (908, 27594), (974, 27435), (989, 27405), (992, 27396), (1010, 27336), (1013, 27312), (1028, 27273), (1040, 27240), (1044, 27228), (1068, 27168),

Gene: Loviatar_43 Start: 31529, Stop: 33403, Start Num: 217
Candidate Starts for Loviatar_43:
(Start: 217 @31529 has 68 MA's), (Start: 273 @31598 has 1 MA's), (Start: 285 @31619 has 1 MA's), (399, 31799), (430, 31865), (436, 31880), (448, 31907), (626, 32201), (741, 32435), (783, 32555), (784, 32558), (803, 32618), (806, 32624), (823, 32669), (830, 32684), (833, 32699), (845, 32735), (855, 32771), (898, 32864), (924, 32924), (936, 32957), (973, 33035), (975, 33038), (1009, 33107), (1013, 33131), (1018, 33146), (1038, 33188), (1041, 33206), (1066, 33266), (1079, 33287),

Gene: Lowa_48 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for Lowa_48:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: Luchador_50 Start: 33745, Stop: 31952, Start Num: 228
Candidate Starts for Luchador_50:
(Start: 228 @33745 has 960 MA's), (235, 33736), (258, 33703), (304, 33634), (360, 33541), (399, 33466), (400, 33463), (410, 33436), (424, 33409), (448, 33358), (480, 33280), (490, 33256), (570, 33163), (579, 33139), (587, 33118), (643, 33025), (659, 32995), (729, 32848), (764, 32797), (778, 32749), (803, 32668), (815, 32638), (830, 32602), (847, 32545), (855, 32515), (900, 32434), (935, 32350), (949, 32317), (958, 32290), (1009, 32200), (1038, 32119), (1042, 32098), (1045, 32089), (1066, 32041), (1073, 32029), (1079, 32020), (1082, 32017),

Gene: Lucivia_45 Start: 30825, Stop: 29038, Start Num: 228
Candidate Starts for Lucivia_45:
(Start: 228 @30825 has 960 MA's), (360, 30621), (399, 30549), (410, 30519), (424, 30492), (572, 30240), (595, 30189), (643, 30108), (668, 30063), (707, 29979), (733, 29922), (766, 29880), (778, 29835), (803, 29754), (823, 29703), (836, 29667), (855, 29601), (895, 29541), (897, 29529), (938, 29427), (949, 29403), (954, 29385), (992, 29322), (1007, 29295), (1009, 29286), (1013, 29262), (1066, 29127), (1073, 29115), (1079, 29106),

Gene: Lucky3_37 Start: 28582, Stop: 26732, Start Num: 297
Candidate Starts for Lucky3_37:
(209, 28723), (268, 28633), (Start: 297 @28582 has 21 MA's), (346, 28483), (360, 28459), (380, 28426), (431, 28315), (439, 28294), (442, 28288), (458, 28243), (460, 28237), (560, 28081), (586,

28018), (590, 28006), (607, 27976), (636, 27919), (768, 27625), (847, 27415), (850, 27406), (851, 27403), (855, 27385), (873, 27343), (908, 27256), (1010, 26998), (1013, 26974), (1014, 26971), (1025, 26941), (1068, 26830),

Gene: LuckyBarnes_45 Start: 38524, Stop: 36659, Start Num: 176
Candidate Starts for LuckyBarnes_45:
(130, 38590), (Start: 176 @38524 has 7 MA's), (Start: 223 @38464 has 3 MA's), (235, 38452), (Start: 255 @38425 has 8 MA's), (257, 38422), (263, 38410), (320, 38323), (341, 38296), (356, 38266), (363, 38257), (368, 38248), (393, 38197), (403, 38167), (425, 38101), (452, 38056), (470, 38017), (503, 37957), (516, 37903), (551, 37801), (553, 37798), (660, 37666), (711, 37555), (726, 37507), (728, 37501), (739, 37468), (743, 37462), (760, 37423), (765, 37414), (773, 37393), (774, 37390), (794, 37330), (801, 37297), (816, 37279), (827, 37249), (844, 37198), (857, 37159), (871, 37099), (880, 37069), (884, 37063), (905, 36997), (912, 36988), (914, 36985), (925, 36961), (943, 36910), (970, 36853), (979, 36835), (988, 36808), (1011, 36751), (1013, 36739), (1034, 36682),

Gene: LuckyMarjie_58 Start: 53758, Stop: 51899, Start Num: 190
Candidate Starts for LuckyMarjie_58:
(Start: 173 @53782 has 3 MA's), (Start: 190 @53758 has 336 MA's), (Start: 222 @53734 has 3 MA's), (Start: 232 @53728 has 2 MA's), (261, 53686), (274, 53665), (336, 53551), (339, 53545), (355, 53515), (390, 53455), (398, 53434), (416, 53380), (429, 53368), (436, 53350), (440, 53338), (487, 53233), (552, 53176), (569, 53140), (573, 53128), (583, 53104), (590, 53092), (601, 53074), (611, 53056), (622, 53038), (643, 52999), (648, 52990), (649, 52987), (651, 52984), (796, 52627), (804, 52594), (812, 52573), (848, 52480), (851, 52471), (877, 52408), (900, 52372), (901, 52369), (906, 52354), (939, 52276), (946, 52264), (953, 52243), (976, 52204), (1013, 52114), (1022, 52096), (1024, 52090), (1032, 52075), (1040, 52051), (1042, 52036), (1043, 52033), (1047, 52021), (1059, 51997), (1082, 51949), (1093, 51925),

Gene: LuckySocke_138 Start: 73912, Stop: 75948, Start Num: 255
Candidate Starts for LuckySocke_138:
(Start: 255 @73912 has 8 MA's), (292, 73978), (308, 74002), (331, 74053), (334, 74056), (342, 74068), (360, 74101), (398, 74170), (444, 74305), (456, 74341), (535, 74461), (561, 74515), (564, 74518), (582, 74569), (587, 74581), (626, 74650), (637, 74671), (666, 74719), (672, 74728), (806, 75106), (839, 75223), (843, 75241), (879, 75337), (896, 75373), (923, 75442), (926, 75451), (929, 75457), (986, 75595), (991, 75610), (995, 75625), (1018, 75709), (1022, 75712), (1045, 75784), (1065, 75856), (1085, 75901), (1088, 75910), (1091, 75916),

Gene: Lucyedi_45 Start: 30972, Stop: 29140, Start Num: 228
Candidate Starts for Lucyedi_45:
(Start: 228 @30972 has 960 MA's), (360, 30768), (362, 30765), (399, 30696), (400, 30693), (410, 30666), (418, 30645), (424, 30639), (430, 30630), (448, 30588), (480, 30510), (490, 30486), (570, 30393), (659, 30225), (764, 30027), (803, 29898), (840, 29802), (851, 29763), (855, 29745), (897, 29673), (900, 29664), (955, 29526), (1007, 29439), (1009, 29430), (1042, 29328), (1066, 29271), (1073, 29259), (1115, 29154),

Gene: Ludgate_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Ludgate_39:
(Start: 241 @29017 has 3 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (701, 28123), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: LugYA_51 Start: 31853, Stop: 30039, Start Num: 228
Candidate Starts for LugYA_51:
(Start: 228 @31853 has 960 MA's), (257, 31814), (263, 31802), (360, 31649), (369, 31634), (399, 31577), (424, 31520), (430, 31511), (448, 31469), (465, 31418), (490, 31367), (570, 31274), (590, 31226), (595, 31217), (607, 31202), (626, 31163), (643, 31136), (659, 31106), (703, 31013), (732, 30953), (742, 30938), (803, 30782), (836, 30695), (855, 30629), (871, 30590), (901, 30518), (919, 30479), (929, 30455), (935, 30437), (949, 30404), (958, 30377), (992, 30323), (1013, 30263), (1042, 30185), (1066, 30128), (1073, 30116), (1079, 30107),

Gene: Lulumae_58 Start: 53743, Stop: 51884, Start Num: 190
Candidate Starts for Lulumae_58:
(Start: 173 @53767 has 3 MA's), (Start: 190 @53743 has 336 MA's), (Start: 222 @53719 has 3 MA's), (Start: 232 @53713 has 2 MA's), (261, 53671), (274, 53650), (336, 53536), (339, 53530), (355, 53500), (390, 53440), (398, 53419), (416, 53365), (429, 53353), (436, 53335), (440, 53323), (487, 53218), (552, 53161), (569, 53125), (573, 53113), (585, 53086), (601, 53059), (611, 53041), (622, 53023), (643, 52984), (648, 52975), (649, 52972), (651, 52969), (796, 52612), (804, 52579), (812, 52558), (848, 52465), (851, 52456), (877, 52393), (900, 52357), (901, 52354), (906, 52339), (939, 52261), (946, 52249), (953, 52228), (976, 52189), (1013, 52099), (1022, 52081), (1024, 52075), (1032, 52060), (1040, 52036), (1042, 52021), (1043, 52018), (1047, 52006), (1059, 51982), (1082, 51934), (1093, 51910),

Gene: Lulwa_58 Start: 53340, Stop: 51481, Start Num: 190
Candidate Starts for Lulwa_58:
(Start: 173 @53364 has 3 MA's), (Start: 190 @53340 has 336 MA's), (Start: 222 @53316 has 3 MA's), (Start: 232 @53310 has 2 MA's), (261, 53268), (274, 53247), (336, 53133), (339, 53127), (355, 53097), (390, 53037), (398, 53016), (416, 52962), (429, 52950), (436, 52932), (440, 52920), (487, 52815), (552, 52758), (569, 52722), (573, 52710), (585, 52683), (601, 52656), (611, 52638), (622, 52620), (643, 52581), (648, 52572), (649, 52569), (761, 52311), (796, 52209), (804, 52176), (812, 52155), (848, 52062), (851, 52053), (877, 51990), (900, 51954), (901, 51951), (906, 51936), (939, 51858), (946, 51846), (953, 51825), (976, 51786), (1013, 51696), (1022, 51678), (1024, 51672), (1032, 51657), (1040, 51633), (1042, 51618), (1043, 51615), (1047, 51603), (1059, 51579), (1082, 51531), (1093, 51507),

Gene: Lumine_61 Start: 54227, Stop: 52368, Start Num: 190
Candidate Starts for Lumine_61:
(Start: 173 @54251 has 3 MA's), (Start: 190 @54227 has 336 MA's), (Start: 222 @54203 has 3 MA's), (Start: 232 @54197 has 2 MA's), (261, 54155), (274, 54134), (336, 54020), (339, 54014), (355, 53984), (390, 53924), (398, 53903), (416, 53849), (429, 53837), (436, 53819), (440, 53807), (487, 53702), (552, 53645), (569, 53609), (573, 53597), (583, 53573), (590, 53561), (601, 53543), (611, 53525), (622, 53507), (643, 53468), (648, 53459), (649, 53456), (651, 53453), (796, 53096), (804, 53063), (812, 53042), (848, 52949), (851, 52940), (877, 52877), (900, 52841), (901, 52838), (906, 52823), (939, 52745), (946, 52733), (953, 52712), (976, 52673), (1013, 52583), (1022, 52565), (1024, 52559), (1032, 52544), (1040, 52520), (1042, 52505), (1043, 52502), (1047, 52490), (1059, 52466), (1082, 52418), (1093, 52394),

Gene: Luna18_40 Start: 28364, Stop: 26472, Start Num: 296
Candidate Starts for Luna18_40:
(Start: 241 @28454 has 3 MA's), (Start: 296 @28364 has 13 MA's), (Start: 305 @28355 has 5 MA's), (337, 28298), (346, 28268), (369, 28229), (378, 28214), (382, 28208), (391, 28190), (402, 28157), (439, 28079), (442, 28073), (460, 28022), (474, 27983), (552, 27872), (586, 27788), (590, 27776), (607, 27746), (614, 27731), (618, 27725), (621, 27719), (623, 27713), (626, 27707), (770, 27392), (833, 27197), (855, 27125), (873, 27083), (889, 27053), (897, 27032), (908, 26996), (934, 26924),

(989, 26807), (992, 26798), (1010, 26738), (1013, 26714), (1017, 26702), (1033, 26666), (1068, 26570),

Gene: LunarLander_46 Start: 34906, Stop: 33080, Start Num: 228
Candidate Starts for LunarLander_46:
(Start: 228 @34906 has 960 MA's), (366, 34693), (373, 34678), (399, 34630), (410, 34600), (418, 34579), (424, 34573), (430, 34564), (479, 34447), (490, 34420), (570, 34327), (576, 34312), (590, 34279), (621, 34228), (622, 34225), (659, 34159), (680, 34129), (690, 34099), (709, 34054), (729, 34015), (803, 33835), (815, 33805), (821, 33787), (823, 33784), (836, 33748), (855, 33682), (900, 33601), (901, 33598), (935, 33517), (1009, 33367), (1010, 33364), (1018, 33328), (1032, 33304), (1035, 33295), (1039, 33283), (1042, 33265), (1045, 33256), (1066, 33208), (1079, 33187),

Gene: Lunsford_46 Start: 31564, Stop: 29738, Start Num: 228
Candidate Starts for Lunsford_46:
(Start: 228 @31564 has 960 MA's), (Start: 241 @31543 has 3 MA's), (263, 31513), (278, 31483), (384, 31321), (394, 31303), (424, 31231), (430, 31222), (480, 31102), (490, 31078), (570, 30985), (592, 30937), (607, 30916), (626, 30877), (696, 30745), (707, 30724), (729, 30679), (733, 30667), (798, 30514), (803, 30493), (847, 30370), (855, 30340), (871, 30301), (900, 30235), (901, 30232), (906, 30217), (919, 30193), (929, 30169), (1013, 29962), (1066, 29827), (1073, 29815), (1079, 29806),

Gene: Lynlen_43 Start: 29644, Stop: 31518, Start Num: 217
Candidate Starts for Lynlen_43:
(Start: 215 @29641 has 12 MA's), (Start: 217 @29644 has 68 MA's), (Start: 273 @29713 has 1 MA's), (Start: 285 @29734 has 1 MA's), (430, 29980), (448, 30022), (582, 30235), (626, 30316), (696, 30451), (741, 30550), (784, 30673), (803, 30733), (806, 30739), (823, 30784), (830, 30799), (833, 30814), (845, 30850), (855, 30886), (898, 30979), (936, 31072), (973, 31150), (1009, 31222), (1018, 31261), (1038, 31303), (1041, 31321), (1066, 31381), (1079, 31402),

Gene: MA5_45 Start: 30880, Stop: 29042, Start Num: 228
Candidate Starts for MA5_45:
(171, 30952), (Start: 228 @30880 has 960 MA's), (263, 30829), (360, 30676), (384, 30637), (399, 30604), (424, 30547), (430, 30538), (435, 30526), (480, 30418), (490, 30394), (570, 30298), (592, 30250), (626, 30190), (696, 30058), (707, 30037), (767, 29923), (778, 29881), (803, 29800), (836, 29713), (847, 29677), (855, 29647), (901, 29536), (919, 29497), (929, 29473), (935, 29455), (936, 29452), (992, 29326), (1013, 29266), (1066, 29131), (1073, 29119), (1079, 29110),

Gene: MCubed_38 Start: 28748, Stop: 26883, Start Num: 301
Candidate Starts for MCubed_38:
(Start: 301 @28748 has 153 MA's), (346, 28649), (382, 28589), (402, 28538), (439, 28460), (442, 28454), (458, 28409), (459, 28406), (460, 28403), (474, 28364), (502, 28304), (582, 28181), (586, 28172), (590, 28160), (597, 28148), (607, 28130), (618, 28109), (623, 28097), (706, 27926), (773, 27758), (840, 27593), (850, 27557), (855, 27536), (873, 27494), (908, 27407), (924, 27362), (965, 27263), (989, 27218), (1010, 27149), (1013, 27125), (1025, 27092), (1068, 26981),

Gene: MK4_45 Start: 30963, Stop: 29125, Start Num: 228
Candidate Starts for MK4_45:
(171, 31035), (Start: 228 @30963 has 960 MA's), (263, 30912), (360, 30759), (384, 30720), (399, 30687), (424, 30630), (430, 30621), (435, 30609), (480, 30501), (490, 30477), (570, 30381), (592, 30333), (626, 30273), (696, 30141), (707, 30120), (742, 30051), (767, 30006), (778, 29964), (803, 29883), (836, 29796), (847, 29760), (855, 29730), (901, 29619), (919, 29580), (929, 29556), (935, 29538), (990, 29415), (992, 29409), (1013, 29349), (1065, 29217), (1066, 29214), (1073, 29202), (1079, 29193),

Gene: MPlant7149_43 Start: 33801, Stop: 32014, Start Num: 228
Candidate Starts for MPlant7149_43:
(Start: 228 @33801 has 960 MA's), (366, 33588), (373, 33573), (399, 33525), (410, 33495), (418, 33474), (424, 33468), (430, 33459), (479, 33342), (490, 33315), (570, 33222), (576, 33207), (621, 33123), (622, 33120), (659, 33054), (680, 33024), (690, 32994), (709, 32949), (729, 32910), (803, 32730), (821, 32682), (836, 32643), (855, 32577), (897, 32505), (900, 32496), (935, 32412), (977, 32325), (1032, 32199), (1036, 32187), (1058, 32127), (1066, 32103), (1069, 32097),

Gene: MRabcd_60 Start: 54351, Stop: 52492, Start Num: 190
Candidate Starts for MRabcd_60:
(Start: 173 @54375 has 3 MA's), (Start: 190 @54351 has 336 MA's), (Start: 222 @54327 has 3 MA's), (Start: 232 @54321 has 2 MA's), (261, 54279), (274, 54258), (336, 54144), (339, 54138), (355, 54108), (390, 54048), (398, 54027), (416, 53973), (429, 53961), (436, 53943), (440, 53931), (487, 53826), (552, 53769), (569, 53733), (573, 53721), (585, 53694), (611, 53649), (643, 53592), (648, 53583), (649, 53580), (796, 53220), (804, 53187), (812, 53166), (848, 53073), (851, 53064), (877, 53001), (900, 52965), (901, 52962), (906, 52947), (939, 52869), (946, 52857), (953, 52836), (976, 52797), (1013, 52707), (1022, 52689), (1024, 52683), (1032, 52668), (1040, 52644), (1042, 52629), (1043, 52626), (1047, 52614), (1059, 52590), (1082, 52542), (1093, 52518),

Gene: MaCh_45 Start: 30763, Stop: 28976, Start Num: 228
Candidate Starts for MaCh_45:
(Start: 228 @30763 has 960 MA's), (360, 30559), (399, 30487), (410, 30457), (424, 30430), (572, 30178), (595, 30127), (643, 30046), (668, 30001), (670, 29998), (707, 29917), (733, 29860), (766, 29818), (778, 29773), (803, 29692), (823, 29641), (836, 29605), (855, 29539), (895, 29479), (897, 29467), (938, 29365), (949, 29341), (954, 29323), (992, 29260), (1007, 29233), (1009, 29224), (1013, 29200), (1066, 29065), (1073, 29053), (1079, 29044),

Gene: MaGuCo_40 Start: 30008, Stop: 31852, Start Num: 228
Candidate Starts for MaGuCo_40:
(Start: 228 @30008 has 960 MA's), (410, 30305), (418, 30326), (572, 30581), (623, 30683), (633, 30704), (686, 30794), (707, 30842), (736, 30905), (803, 31100), (806, 31106), (836, 31187), (855, 31253), (906, 31370), (945, 31457), (1006, 31577), (1009, 31589), (1066, 31748), (1090, 31793),

Gene: Mabel_45 Start: 30748, Stop: 28961, Start Num: 228
Candidate Starts for Mabel_45:
(Start: 228 @30748 has 960 MA's), (360, 30544), (399, 30472), (410, 30442), (424, 30415), (572, 30163), (595, 30112), (643, 30031), (668, 29986), (707, 29902), (733, 29845), (766, 29803), (778, 29758), (803, 29677), (823, 29626), (836, 29590), (855, 29524), (895, 29464), (897, 29452), (938, 29350), (949, 29326), (954, 29308), (992, 29245), (1007, 29218), (1009, 29209), (1013, 29185), (1066, 29050), (1073, 29038), (1079, 29029),

Gene: Mabodamaca_48 Start: 32455, Stop: 34320, Start Num: 228
Candidate Starts for Mabodamaca_48:
(160, 32392), (167, 32401), (Start: 228 @32455 has 960 MA's), (452, 32842), (587, 33088), (626, 33157), (707, 33310), (778, 33487), (803, 33568), (828, 33631), (845, 33685), (856, 33724), (926, 33880), (936, 33907), (976, 33991), (1040, 34144), (1066, 34216), (1084, 34246),

Gene: MadMarie_48 Start: 31855, Stop: 30041, Start Num: 228
Candidate Starts for MadMarie_48:
(Start: 228 @31855 has 960 MA's), (257, 31816), (263, 31804), (360, 31651), (369, 31636), (399, 31579), (424, 31522), (430, 31513), (448, 31471), (465, 31420), (490, 31369), (570, 31276), (590, 31228), (595, 31219), (607, 31204), (626, 31165), (643, 31138), (659, 31108), (703, 31015), (709, 31003), (732, 30955), (742, 30940), (803, 30784), (836, 30697), (851, 30649), (855, 30631), (871,

30592), (901, 30520), (919, 30481), (929, 30457), (935, 30439), (949, 30406), (958, 30379), (992, 30325), (1013, 30265), (1042, 30187), (1066, 30130), (1073, 30118), (1079, 30109),

Gene: MaeLinda_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for MaeLinda_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (435, 28658), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (585, 28361), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (701, 28127), (726, 28067), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (879, 27665), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Mag7_61 Start: 54187, Stop: 52328, Start Num: 190
Candidate Starts for Mag7_61:
(Start: 173 @54211 has 3 MA's), (Start: 190 @54187 has 336 MA's), (Start: 222 @54163 has 3 MA's), (Start: 232 @54157 has 2 MA's), (261, 54115), (274, 54094), (336, 53980), (339, 53974), (355, 53944), (390, 53884), (398, 53863), (416, 53809), (429, 53797), (436, 53779), (440, 53767), (487, 53662), (552, 53605), (569, 53569), (573, 53557), (583, 53533), (590, 53521), (601, 53503), (611, 53485), (622, 53467), (643, 53428), (648, 53419), (649, 53416), (651, 53413), (796, 53056), (804, 53023), (812, 53002), (848, 52909), (851, 52900), (877, 52837), (900, 52801), (901, 52798), (906, 52783), (939, 52705), (946, 52693), (953, 52672), (976, 52633), (1013, 52543), (1022, 52525), (1024, 52519), (1032, 52504), (1040, 52480), (1042, 52465), (1043, 52462), (1047, 52450), (1059, 52426), (1082, 52378), (1093, 52354),

Gene: Magic8_61 Start: 54339, Stop: 52480, Start Num: 190
Candidate Starts for Magic8_61:
(Start: 173 @54363 has 3 MA's), (Start: 190 @54339 has 336 MA's), (Start: 222 @54315 has 3 MA's), (Start: 232 @54309 has 2 MA's), (261, 54267), (274, 54246), (336, 54132), (339, 54126), (355, 54096), (390, 54036), (398, 54015), (416, 53961), (429, 53949), (436, 53931), (440, 53919), (487, 53814), (552, 53757), (569, 53721), (573, 53709), (585, 53682), (601, 53655), (611, 53637), (622, 53619), (643, 53580), (648, 53571), (649, 53568), (651, 53565), (796, 53208), (804, 53175), (812, 53154), (848, 53061), (851, 53052), (877, 52989), (900, 52953), (901, 52950), (906, 52935), (939, 52857), (946, 52845), (953, 52824), (976, 52785), (1013, 52695), (1022, 52677), (1024, 52671), (1032, 52656), (1040, 52632), (1042, 52617), (1043, 52614), (1047, 52602), (1059, 52578), (1082, 52530), (1093, 52506),

Gene: Magnar_44 Start: 35145, Stop: 33328, Start Num: 228
Candidate Starts for Magnar_44:
(Start: 228 @35145 has 960 MA's), (366, 34932), (373, 34917), (410, 34839), (418, 34818), (424, 34812), (430, 34803), (479, 34686), (490, 34659), (570, 34566), (576, 34551), (590, 34518), (621, 34467), (622, 34464), (659, 34398), (680, 34368), (690, 34338), (709, 34293), (729, 34254), (803, 34074), (815, 34044), (821, 34026), (836, 33987), (855, 33921), (900, 33840), (901, 33837), (935, 33756), (1009, 33606), (1010, 33603), (1018, 33567), (1032, 33543), (1035, 33534), (1039, 33522), (1066, 33447), (1079, 33426),

Gene: Magnito_42 Start: 33719, Stop: 31893, Start Num: 228
Candidate Starts for Magnito_42:
(Start: 228 @33719 has 960 MA's), (366, 33506), (373, 33491), (410, 33413), (414, 33401), (418, 33392), (424, 33386), (430, 33377), (479, 33260), (490, 33233), (570, 33140), (576, 33125), (590, 33092), (621, 33041), (622, 33038), (654, 32984), (659, 32972), (680, 32942), (690, 32912), (709, 32867), (729, 32828), (803, 32648), (821, 32600), (823, 32597), (836, 32561), (855, 32495), (871, 32456), (895, 32435), (900, 32414), (906, 32396), (935, 32330), (1009, 32180), (1010, 32177), (1018,

32141), (1032, 32117), (1035, 32108), (1039, 32096), (1057, 32048), (1066, 32021), (1079, 32000),

Gene: Magpie_52 Start: 53908, Stop: 52085, Start Num: 182
Candidate Starts for Magpie_52:
(Start: 163 @53926 has 29 MA's), (Start: 182 @53908 has 33 MA's), (Start: 232 @53884 has 2 MA's), (249, 53857), (261, 53842), (274, 53821), (324, 53734), (386, 53629), (398, 53602), (402, 53587), (436, 53521), (449, 53491), (452, 53482), (457, 53479), (458, 53476), (467, 53449), (487, 53413), (552, 53356), (560, 53338), (569, 53320), (573, 53308), (585, 53281), (622, 53218), (643, 53179), (648, 53170), (649, 53167), (664, 53137), (685, 53101), (761, 52915), (775, 52876), (776, 52873), (787, 52837), (796, 52813), (804, 52780), (846, 52672), (848, 52666), (851, 52657), (900, 52558), (901, 52555), (906, 52540), (939, 52462), (946, 52450), (953, 52429), (955, 52420), (976, 52390), (992, 52360), (1007, 52333), (1013, 52300), (1024, 52276), (1040, 52237), (1043, 52219), (1047, 52207), (1059, 52183), (1078, 52141), (1082, 52135), (1093, 52111),

Gene: Mahdia_44 Start: 34961, Stop: 32724, Start Num: 11
Candidate Starts for Mahdia_44:
(5, 35099), (Start: 11 @34961 has 3 MA's), (27, 34808), (28, 34805), (34, 34754), (73, 34676), (111, 34622), (160, 34610), (183, 34580), (Start: 193 @34568 has 1 MA's), (202, 34556), (Start: 228 @34526 has 960 MA's), (278, 34448), (Start: 298 @34424 has 15 MA's), (307, 34421), (315, 34400), (416, 34199), (439, 34163), (447, 34148), (473, 34091), (483, 34070), (487, 34064), (490, 34055), (550, 34013), (569, 33974), (597, 33911), (617, 33878), (627, 33860), (632, 33851), (649, 33821), (664, 33791), (722, 33671), (775, 33527), (783, 33497), (787, 33488), (796, 33464), (804, 33431), (840, 33350), (846, 33326), (848, 33320), (877, 33248), (897, 33221), (900, 33212), (901, 33209), (906, 33194), (919, 33170), (939, 33116), (946, 33104), (1001, 32990), (1007, 32975), (1042, 32864), (1043, 32861), (1054, 32837), (1059, 32825), (1082, 32774), (1093, 32750),

Gene: Maih_47 Start: 39368, Stop: 37368, Start Num: 298
Candidate Starts for Maih_47:
(Start: 298 @39368 has 15 MA's), (343, 39299), (409, 39167), (411, 39161), (413, 39155), (435, 39107), (439, 39095), (442, 39089), (451, 39068), (456, 39053), (486, 38984), (527, 38843), (568, 38747), (609, 38660), (625, 38636), (631, 38624), (639, 38612), (679, 38543), (733, 38396), (781, 38291), (787, 38276), (806, 38219), (814, 38198), (828, 38156), (838, 38126), (847, 38093), (861, 38039), (870, 38009), (891, 37940), (895, 37919), (919, 37856), (926, 37838), (931, 37826), (939, 37802), (1013, 37601), (1014, 37598), (1024, 37577), (1039, 37544), (1042, 37526), (1058, 37493), (1066, 37469), (1092, 37421),

Gene: Mainiac_48 Start: 31846, Stop: 30032, Start Num: 228
Candidate Starts for Mainiac_48:
(Start: 228 @31846 has 960 MA's), (257, 31807), (263, 31795), (360, 31642), (369, 31627), (399, 31570), (424, 31513), (430, 31504), (448, 31462), (465, 31411), (490, 31360), (570, 31267), (590, 31219), (595, 31210), (607, 31195), (626, 31156), (643, 31129), (659, 31099), (703, 31006), (732, 30946), (742, 30931), (803, 30775), (836, 30688), (855, 30622), (871, 30583), (901, 30511), (919, 30472), (929, 30448), (935, 30430), (949, 30397), (958, 30370), (992, 30316), (1013, 30256), (1042, 30178), (1066, 30121), (1073, 30109), (1079, 30100),

Gene: MajorMajor_44 Start: 30374, Stop: 28545, Start Num: 227
Candidate Starts for MajorMajor_44:
(Start: 227 @30374 has 33 MA's), (360, 30170), (362, 30167), (366, 30161), (375, 30146), (384, 30131), (398, 30101), (399, 30098), (410, 30068), (424, 30041), (435, 30020), (448, 29990), (490, 29888), (570, 29795), (590, 29747), (595, 29738), (607, 29723), (643, 29657), (686, 29576), (707, 29528), (729, 29483), (803, 29303), (821, 29255), (823, 29252), (836, 29216), (855, 29150), (871, 29111), (895, 29090), (924, 29015), (931, 28997), (949, 28952), (958, 28925), (982, 28889), (992, 28871), (1009, 28835), (1013, 28811), (1042, 28733), (1066, 28676), (1073, 28664), (1079, 28655),

(1100, 28607), (1113, 28577), (1116, 28559), (1118, 28556),

Gene: Makemake_44 Start: 35340, Stop: 33514, Start Num: 228
Candidate Starts for Makemake_44:
(Start: 228 @35340 has 960 MA's), (366, 35127), (373, 35112), (399, 35064), (410, 35034), (418, 35013), (424, 35007), (430, 34998), (479, 34881), (490, 34854), (570, 34761), (576, 34746), (590, 34713), (621, 34662), (622, 34659), (659, 34593), (680, 34563), (690, 34533), (709, 34488), (729, 34449), (803, 34269), (815, 34239), (821, 34221), (823, 34218), (836, 34182), (855, 34116), (900, 34035), (901, 34032), (935, 33951), (1009, 33801), (1010, 33798), (1018, 33762), (1032, 33738), (1035, 33729), (1039, 33717), (1066, 33642), (1079, 33621),

Gene: Makima_41 Start: 30406, Stop: 28625, Start Num: 221
Candidate Starts for Makima_41:
(55, 30742), (64, 30718), (97, 30610), (101, 30601), (102, 30598), (129, 30535), (168, 30475), (170, 30472), (Start: 221 @30406 has 14 MA's), (299, 30283), (328, 30235), (411, 30097), (439, 30043), (448, 30025), (482, 29962), (483, 29956), (493, 29932), (570, 29863), (598, 29809), (613, 29782), (626, 29755), (633, 29740), (672, 29677), (697, 29620), (709, 29596), (712, 29590), (729, 29554), (733, 29542), (748, 29518), (798, 29404), (803, 29383), (806, 29377), (841, 29281), (848, 29257), (855, 29230), (871, 29191), (902, 29116), (932, 29047), (949, 29005), (991, 28909), (1014, 28843), (1036, 28792), (1038, 28786), (1043, 28762), (1049, 28744), (1059, 28729), (1101, 28636),

Gene: MakoManhole_51 Start: 47082, Stop: 45265, Start Num: 225
Candidate Starts for MakoManhole_51:
(Start: 225 @47082 has 16 MA's), (Start: 232 @47073 has 2 MA's), (249, 47046), (259, 47034), (274, 47010), (278, 47001), (336, 46905), (362, 46863), (381, 46827), (411, 46752), (449, 46677), (487, 46599), (552, 46542), (569, 46506), (573, 46494), (583, 46470), (635, 46377), (649, 46353), (658, 46335), (775, 46062), (787, 46023), (797, 45993), (804, 45966), (846, 45858), (848, 45852), (851, 45843), (897, 45753), (900, 45744), (901, 45741), (906, 45726), (939, 45648), (946, 45636), (948, 45630), (953, 45615), (981, 45567), (1007, 45519), (1013, 45486), (1024, 45462), (1040, 45423), (1041, 45411), (1042, 45408), (1059, 45363), (1082, 45315), (1093, 45291), (1100, 45270),

Gene: Malec_45 Start: 32164, Stop: 30371, Start Num: 228
Candidate Starts for Malec_45:
(Start: 228 @32164 has 960 MA's), (360, 31960), (362, 31957), (366, 31951), (384, 31921), (399, 31888), (400, 31885), (410, 31858), (424, 31831), (448, 31780), (490, 31678), (570, 31585), (590, 31537), (595, 31528), (607, 31513), (643, 31447), (686, 31366), (707, 31318), (709, 31312), (778, 31174), (803, 31093), (823, 31036), (835, 31003), (847, 30964), (855, 30934), (871, 30895), (895, 30874), (900, 30853), (990, 30661), (992, 30655), (1009, 30619), (1013, 30595), (1038, 30538), (1042, 30517), (1066, 30460), (1073, 30448), (1079, 30439),

Gene: Malinsilva_50 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for Malinsilva_50:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: Maminiaina_44 Start: 31324, Stop: 29531, Start Num: 228
Candidate Starts for Maminiaina_44:
(Start: 228 @31324 has 960 MA's), (235, 31315), (304, 31213), (342, 31153), (343, 31150), (360, 31120), (366, 31111), (384, 31078), (399, 31045), (400, 31042), (410, 31015), (415, 31000), (424,

30988), (490, 30835), (570, 30742), (643, 30604), (659, 30574), (742, 30403), (764, 30376), (767, 30370), (803, 30247), (851, 30112), (855, 30094), (900, 30013), (949, 29896), (1009, 29779), (1013, 29755), (1042, 29677), (1066, 29620), (1073, 29608), (1079, 29599),

Gene: ManRay_38 Start: 28632, Stop: 26767, Start Num: 301
Candidate Starts for ManRay_38:
(Start: 241 @28719 has 3 MA's), (Start: 243 @28716 has 1 MA's), (Start: 301 @28632 has 153 MA's), (Start: 305 @28623 has 5 MA's), (353, 28518), (360, 28509), (378, 28479), (380, 28476), (435, 28356), (439, 28344), (442, 28338), (483, 28233), (494, 28206), (582, 28065), (585, 28059), (586, 28056), (590, 28044), (606, 28017), (607, 28014), (614, 27999), (618, 27993), (621, 27987), (638, 27954), (701, 27825), (726, 27765), (847, 27450), (850, 27441), (851, 27438), (855, 27420), (873, 27378), (877, 27372), (879, 27363), (888, 27348), (908, 27291), (974, 27132), (989, 27102), (992, 27093), (1010, 27033), (1013, 27009), (1028, 26970), (1040, 26937), (1044, 26925), (1068, 26865),

Gene: Mana_59 Start: 54023, Stop: 52164, Start Num: 190
Candidate Starts for Mana_59:
(Start: 173 @54047 has 3 MA's), (Start: 190 @54023 has 336 MA's), (Start: 222 @53999 has 3 MA's), (Start: 232 @53993 has 2 MA's), (261, 53951), (274, 53930), (336, 53816), (339, 53810), (355, 53780), (390, 53720), (398, 53699), (416, 53645), (429, 53633), (436, 53615), (440, 53603), (487, 53498), (552, 53441), (569, 53405), (573, 53393), (585, 53366), (601, 53339), (611, 53321), (622, 53303), (643, 53264), (648, 53255), (649, 53252), (796, 52892), (804, 52859), (812, 52838), (848, 52745), (851, 52736), (877, 52673), (900, 52637), (901, 52634), (906, 52619), (939, 52541), (946, 52529), (953, 52508), (976, 52469), (1013, 52379), (1022, 52361), (1024, 52355), (1032, 52340), (1040, 52316), (1042, 52301), (1043, 52298), (1047, 52286), (1059, 52262), (1082, 52214), (1093, 52190),

Gene: Manad_60 Start: 54307, Stop: 52448, Start Num: 190
Candidate Starts for Manad_60:
(Start: 173 @54331 has 3 MA's), (Start: 190 @54307 has 336 MA's), (Start: 222 @54283 has 3 MA's), (Start: 232 @54277 has 2 MA's), (261, 54235), (274, 54214), (336, 54100), (339, 54094), (355, 54064), (390, 54004), (398, 53983), (416, 53929), (429, 53917), (436, 53899), (440, 53887), (487, 53782), (552, 53725), (569, 53689), (573, 53677), (583, 53653), (590, 53641), (601, 53623), (611, 53605), (622, 53587), (643, 53548), (648, 53539), (649, 53536), (651, 53533), (796, 53176), (804, 53143), (812, 53122), (848, 53029), (851, 53020), (877, 52957), (900, 52921), (901, 52918), (906, 52903), (939, 52825), (946, 52813), (953, 52792), (976, 52753), (1013, 52663), (1022, 52645), (1024, 52639), (1032, 52624), (1040, 52600), (1042, 52585), (1043, 52582), (1047, 52570), (1059, 52546), (1082, 52498), (1093, 52474),

Gene: Manatee_45 Start: 34036, Stop: 32210, Start Num: 228
Candidate Starts for Manatee_45:
(Start: 228 @34036 has 960 MA's), (366, 33823), (399, 33760), (410, 33730), (418, 33709), (424, 33703), (430, 33694), (479, 33577), (490, 33550), (570, 33457), (576, 33442), (621, 33358), (622, 33355), (659, 33289), (680, 33259), (690, 33229), (709, 33184), (729, 33145), (803, 32965), (821, 32917), (823, 32914), (836, 32878), (855, 32812), (871, 32773), (895, 32752), (900, 32731), (906, 32713), (935, 32647), (1009, 32497), (1010, 32494), (1018, 32458), (1032, 32434), (1035, 32425), (1039, 32413), (1066, 32338), (1079, 32317),

Gene: Mandalorian_37 Start: 28518, Stop: 26617, Start Num: 296
Candidate Starts for Mandalorian_37:
(Start: 296 @28518 has 13 MA's), (360, 28395), (369, 28380), (378, 28365), (396, 28332), (398, 28323), (402, 28308), (415, 28272), (429, 28257), (439, 28230), (442, 28224), (460, 28173), (474, 28134), (502, 28074), (582, 27948), (586, 27939), (590, 27927), (607, 27897), (618, 27876), (636, 27840), (706, 27693), (726, 27648), (770, 27537), (833, 27342), (847, 27300), (855, 27270), (873, 27228), (889, 27198), (897, 27177), (908, 27141), (1010, 26883), (1013, 26859), (1025, 26826), (1028,

26820), (1068, 26715),

Gene: Manu_48 Start: 31753, Stop: 29939, Start Num: 228
Candidate Starts for Manu_48:
(Start: 228 @31753 has 960 MA's), (257, 31714), (263, 31702), (360, 31549), (369, 31534), (399, 31477), (424, 31420), (430, 31411), (448, 31369), (465, 31318), (490, 31267), (570, 31174), (590, 31126), (607, 31102), (626, 31063), (643, 31036), (659, 31006), (703, 30913), (709, 30901), (732, 30853), (742, 30838), (803, 30682), (823, 30631), (835, 30598), (836, 30595), (855, 30529), (871, 30490), (901, 30418), (919, 30379), (929, 30355), (935, 30337), (949, 30304), (992, 30223), (1013, 30163), (1022, 30145), (1042, 30085), (1045, 30076), (1066, 30028), (1073, 30016), (1079, 30007),

Gene: MarQuardt_48 Start: 31854, Stop: 30040, Start Num: 228
Candidate Starts for MarQuardt_48:
(Start: 228 @31854 has 960 MA's), (257, 31815), (263, 31803), (360, 31650), (369, 31635), (399, 31578), (424, 31521), (430, 31512), (448, 31470), (465, 31419), (490, 31368), (570, 31275), (590, 31227), (595, 31218), (607, 31203), (626, 31164), (643, 31137), (659, 31107), (703, 31014), (732, 30954), (742, 30939), (803, 30783), (836, 30696), (855, 30630), (871, 30591), (901, 30519), (919, 30480), (929, 30456), (935, 30438), (949, 30405), (958, 30378), (992, 30324), (1013, 30264), (1042, 30186), (1066, 30129), (1073, 30117), (1079, 30108),

Gene: Marcell_43 Start: 34431, Stop: 32605, Start Num: 228
Candidate Starts for Marcell_43:
(Start: 228 @34431 has 960 MA's), (366, 34218), (373, 34203), (399, 34155), (410, 34125), (418, 34104), (424, 34098), (430, 34089), (479, 33972), (490, 33945), (570, 33852), (576, 33837), (621, 33753), (622, 33750), (659, 33684), (680, 33654), (690, 33624), (709, 33579), (729, 33540), (803, 33360), (821, 33312), (823, 33309), (836, 33273), (855, 33207), (871, 33168), (895, 33147), (900, 33126), (906, 33108), (935, 33042), (1009, 32892), (1010, 32889), (1018, 32853), (1032, 32829), (1035, 32820), (1039, 32808), (1066, 32733), (1079, 32712),

Gene: Marchesa_45 Start: 31433, Stop: 29595, Start Num: 228
Candidate Starts for Marchesa_45:
(171, 31505), (Start: 228 @31433 has 960 MA's), (263, 31382), (360, 31229), (396, 31169), (399, 31157), (424, 31100), (430, 31091), (435, 31079), (480, 30971), (490, 30947), (570, 30851), (592, 30803), (626, 30743), (663, 30680), (696, 30611), (707, 30590), (742, 30521), (746, 30515), (767, 30476), (803, 30353), (836, 30266), (847, 30230), (855, 30200), (869, 30170), (901, 30089), (919, 30050), (929, 30026), (935, 30008), (992, 29879), (1013, 29819), (1066, 29684), (1073, 29672), (1079, 29663),

Gene: Marchy_39 Start: 31191, Stop: 29365, Start Num: 228
Candidate Starts for Marchy_39:
(Start: 228 @31191 has 960 MA's), (366, 30978), (373, 30963), (410, 30885), (418, 30864), (424, 30858), (430, 30849), (479, 30732), (490, 30705), (570, 30612), (576, 30597), (621, 30513), (622, 30510), (659, 30444), (680, 30414), (690, 30384), (709, 30339), (729, 30300), (803, 30120), (815, 30090), (821, 30072), (823, 30069), (836, 30033), (855, 29967), (900, 29886), (901, 29883), (935, 29802), (1009, 29652), (1010, 29649), (1018, 29613), (1032, 29589), (1035, 29580), (1039, 29568), (1045, 29541), (1066, 29493), (1079, 29472),

Gene: Marco3_47 Start: 35533, Stop: 33704, Start Num: 228
Candidate Starts for Marco3_47:
(Start: 228 @35533 has 960 MA's), (366, 35320), (373, 35305), (410, 35227), (418, 35206), (424, 35200), (430, 35191), (479, 35074), (490, 35047), (570, 34954), (576, 34939), (590, 34906), (621, 34855), (622, 34852), (659, 34786), (680, 34756), (690, 34726), (709, 34681), (729, 34642), (803, 34462), (821, 34414), (840, 34366), (851, 34327), (855, 34309), (871, 34270), (895, 34249), (900,

34228), (905, 34213), (955, 34090), (1036, 33919), (1041, 33895), (1062, 33847), (1066, 33835), (1079, 33814), (1083, 33808), (1102, 33760), (1109, 33745),

Gene: Mareelih_171 Start: 99155, Stop: 97374, Start Num: 230
Candidate Starts for Mareelih_171:
(Start: 230 @99155 has 52 MA's), (263, 99110), (Start: 276 @99083 has 2 MA's), (342, 98990), (381, 98930), (383, 98927), (388, 98918), (398, 98894), (413, 98852), (414, 98849), (439, 98804), (462, 98762), (488, 98708), (570, 98624), (613, 98540), (626, 98513), (633, 98498), (717, 98339), (729, 98315), (735, 98300), (742, 98291), (781, 98204), (792, 98177), (793, 98174), (798, 98153), (803, 98132), (822, 98081), (851, 97997), (857, 97970), (869, 97937), (888, 97895), (932, 97784), (942, 97757), (956, 97721), (961, 97712), (963, 97709), (969, 97700), (1014, 97580), (1024, 97559), (1027, 97553), (1040, 97520), (1043, 97502), (1045, 97496), (1061, 97463), (1066, 97448), (1084, 97424), (1085, 97421), (1097, 97397),

Gene: Marge_45 Start: 35242, Stop: 33455, Start Num: 228
Candidate Starts for Marge_45:
(Start: 228 @35242 has 960 MA's), (366, 35029), (373, 35014), (410, 34936), (418, 34915), (424, 34909), (430, 34900), (465, 34807), (479, 34783), (490, 34756), (570, 34663), (576, 34648), (590, 34615), (621, 34564), (622, 34561), (659, 34495), (680, 34465), (690, 34435), (709, 34390), (729, 34351), (803, 34171), (821, 34123), (836, 34084), (855, 34018), (897, 33946), (900, 33937), (935, 33853), (977, 33766), (1032, 33640), (1036, 33628), (1066, 33544), (1069, 33538),

Gene: Margo_44 Start: 31623, Stop: 29785, Start Num: 228
Candidate Starts for Margo_44:
(Start: 228 @31623 has 960 MA's), (263, 31572), (360, 31419), (399, 31347), (410, 31317), (424, 31290), (430, 31281), (490, 31137), (570, 31041), (592, 30993), (626, 30933), (681, 30846), (696, 30801), (707, 30780), (744, 30708), (767, 30666), (778, 30624), (803, 30543), (821, 30495), (836, 30456), (847, 30420), (855, 30390), (869, 30360), (901, 30279), (919, 30240), (929, 30216), (935, 30198), (936, 30195), (992, 30069), (1013, 30009), (1045, 29922), (1066, 29874), (1073, 29862), (1079, 29853),

Gene: Marie_48 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for Marie_48:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (732, 30952), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: Mariokart_50 Start: 45633, Stop: 43816, Start Num: 225
Candidate Starts for Mariokart_50:
(75, 45906), (87, 45873), (Start: 225 @45633 has 16 MA's), (249, 45597), (259, 45585), (261, 45582), (278, 45552), (351, 45426), (381, 45378), (411, 45303), (440, 45246), (476, 45171), (487, 45150), (569, 45057), (635, 44928), (649, 44904), (685, 44838), (696, 44805), (775, 44613), (780, 44592), (787, 44574), (804, 44517), (848, 44403), (851, 44394), (901, 44292), (906, 44277), (939, 44199), (946, 44187), (953, 44166), (955, 44157), (990, 44103), (1007, 44070), (1013, 44037), (1014, 44034), (1032, 43998), (1040, 43974), (1059, 43914), (1093, 43842), (1100, 43821),

Gene: Marius_49 Start: 31750, Stop: 29936, Start Num: 228
Candidate Starts for Marius_49:
(Start: 228 @31750 has 960 MA's), (257, 31711), (263, 31699), (360, 31546), (369, 31531), (399, 31474), (424, 31417), (430, 31408), (448, 31366), (465, 31315), (490, 31264), (570, 31171), (590,

31123), (607, 31099), (626, 31060), (643, 31033), (659, 31003), (703, 30910), (709, 30898), (732, 30850), (742, 30835), (803, 30679), (823, 30628), (835, 30595), (836, 30592), (855, 30526), (871, 30487), (901, 30415), (919, 30376), (929, 30352), (935, 30334), (949, 30301), (992, 30220), (1013, 30160), (1022, 30142), (1042, 30082), (1045, 30073), (1066, 30025), (1073, 30013), (1079, 30004),

Gene: Marley1013_59 Start: 54530, Stop: 52713, Start Num: 230
Candidate Starts for Marley1013_59:
(46, 54914), (110, 54713), (Start: 230 @54530 has 52 MA's), (249, 54500), (366, 54320), (435, 54167), (439, 54155), (452, 54125), (458, 54119), (487, 54056), (489, 54050), (552, 53999), (569, 53963), (590, 53915), (649, 53810), (694, 53714), (722, 53663), (775, 53519), (787, 53480), (797, 53450), (804, 53423), (810, 53411), (846, 53315), (848, 53309), (851, 53300), (854, 53288), (883, 53216), (900, 53186), (906, 53168), (912, 53159), (939, 53090), (946, 53078), (953, 53057), (992, 52988), (1002, 52973), (1010, 52949), (1024, 52904), (1040, 52865), (1043, 52847), (1047, 52835), (1054, 52823), (1059, 52811), (1078, 52769), (1093, 52739),

Gene: Marlia_59 Start: 54105, Stop: 52288, Start Num: 230
Candidate Starts for Marlia_59:
(110, 54288), (Start: 230 @54105 has 52 MA's), (249, 54075), (366, 53895), (435, 53742), (439, 53730), (452, 53700), (458, 53694), (487, 53631), (489, 53625), (552, 53574), (569, 53538), (590, 53490), (649, 53385), (694, 53289), (722, 53238), (775, 53094), (787, 53055), (797, 53025), (804, 52998), (810, 52986), (846, 52890), (848, 52884), (851, 52875), (854, 52863), (883, 52791), (900, 52761), (906, 52743), (912, 52734), (939, 52665), (946, 52653), (953, 52632), (992, 52563), (1002, 52548), (1010, 52524), (1013, 52503), (1024, 52479), (1040, 52440), (1043, 52422), (1047, 52410), (1054, 52398), (1059, 52386), (1078, 52344), (1093, 52314),

Gene: Maroc7_43 Start: 34287, Stop: 32461, Start Num: 228
Candidate Starts for Maroc7_43:
(Start: 228 @34287 has 960 MA's), (366, 34074), (373, 34059), (399, 34011), (410, 33981), (418, 33960), (424, 33954), (430, 33945), (479, 33828), (490, 33801), (570, 33708), (576, 33693), (590, 33660), (621, 33609), (622, 33606), (659, 33540), (690, 33480), (709, 33435), (729, 33396), (803, 33216), (821, 33168), (836, 33129), (855, 33063), (871, 33024), (895, 33003), (900, 32982), (906, 32964), (935, 32898), (1009, 32748), (1010, 32745), (1018, 32709), (1032, 32685), (1035, 32676), (1039, 32664), (1045, 32637), (1066, 32589), (1079, 32568),

Gene: Marsha_45 Start: 35798, Stop: 33972, Start Num: 228
Candidate Starts for Marsha_45:
(Start: 228 @35798 has 960 MA's), (366, 35585), (373, 35570), (399, 35522), (410, 35492), (418, 35471), (424, 35465), (430, 35456), (479, 35339), (490, 35312), (570, 35219), (576, 35204), (621, 35120), (622, 35117), (659, 35051), (690, 34991), (709, 34946), (729, 34907), (803, 34727), (815, 34697), (821, 34679), (823, 34676), (836, 34640), (855, 34574), (900, 34493), (901, 34490), (935, 34409), (1009, 34259), (1010, 34256), (1018, 34220), (1032, 34196), (1039, 34175), (1045, 34148), (1066, 34100), (1079, 34079),

Gene: Martin_40 Start: 28939, Stop: 27074, Start Num: 301
Candidate Starts for Martin_40:
(Start: 241 @29026 has 3 MA's), (Start: 243 @29023 has 1 MA's), (Start: 301 @28939 has 153 MA's), (Start: 305 @28930 has 5 MA's), (353, 28825), (360, 28816), (378, 28786), (380, 28783), (435, 28663), (439, 28651), (442, 28645), (483, 28540), (494, 28513), (582, 28372), (585, 28366), (586, 28363), (590, 28351), (606, 28324), (607, 28321), (614, 28306), (618, 28300), (621, 28294), (638, 28261), (726, 28072), (847, 27757), (850, 27748), (851, 27745), (855, 27727), (873, 27685), (877, 27679), (879, 27670), (888, 27655), (908, 27598), (974, 27439), (989, 27409), (992, 27400), (1010, 27340), (1013, 27316), (1028, 27277), (1040, 27244), (1044, 27232), (1068, 27172),

Gene: Maru_60 Start: 54462, Stop: 52603, Start Num: 190
Candidate Starts for Maru_60:
(Start: 173 @54486 has 3 MA's), (Start: 190 @54462 has 336 MA's), (Start: 222 @54438 has 3 MA's), (Start: 232 @54432 has 2 MA's), (261, 54390), (274, 54369), (336, 54255), (339, 54249), (355, 54219), (390, 54159), (398, 54138), (416, 54084), (429, 54072), (436, 54054), (440, 54042), (487, 53937), (552, 53880), (569, 53844), (573, 53832), (585, 53805), (611, 53760), (622, 53742), (643, 53703), (648, 53694), (649, 53691), (651, 53688), (796, 53331), (804, 53298), (812, 53277), (848, 53184), (851, 53175), (877, 53112), (900, 53076), (901, 53073), (906, 53058), (939, 52980), (946, 52968), (953, 52947), (976, 52908), (1013, 52818), (1022, 52800), (1024, 52794), (1032, 52779), (1040, 52755), (1042, 52740), (1043, 52737), (1047, 52725), (1059, 52701), (1082, 52653), (1093, 52629),

Gene: MaryBeth_45 Start: 34704, Stop: 32875, Start Num: 228
Candidate Starts for MaryBeth_45:
(Start: 228 @34704 has 960 MA's), (366, 34491), (373, 34476), (399, 34428), (410, 34398), (418, 34377), (424, 34371), (430, 34362), (448, 34320), (479, 34245), (490, 34218), (570, 34125), (576, 34110), (621, 34026), (622, 34023), (659, 33957), (680, 33927), (690, 33897), (709, 33852), (729, 33813), (803, 33633), (821, 33585), (840, 33537), (851, 33498), (855, 33480), (871, 33441), (895, 33420), (900, 33399), (905, 33384), (955, 33261), (1036, 33090), (1041, 33066), (1062, 33018), (1066, 33006), (1079, 32985), (1083, 32979), (1102, 32931), (1109, 32916),

Gene: MarysWell_37 Start: 30459, Stop: 28594, Start Num: 228
Candidate Starts for MarysWell_37:
(Start: 228 @30459 has 960 MA's), (263, 30408), (343, 30285), (360, 30255), (362, 30252), (396, 30195), (410, 30153), (424, 30126), (430, 30117), (480, 29997), (490, 29973), (570, 29877), (579, 29853), (587, 29832), (637, 29745), (643, 29739), (660, 29706), (685, 29667), (703, 29619), (709, 29607), (729, 29568), (803, 29373), (815, 29343), (821, 29325), (835, 29289), (836, 29286), (840, 29277), (855, 29220), (871, 29181), (900, 29139), (906, 29121), (929, 29073), (931, 29067), (949, 29022), (977, 28968), (982, 28959), (992, 28941), (1022, 28863), (1041, 28806), (1058, 28770), (1066, 28746), (1073, 28734),

Gene: Maskar_62 Start: 54257, Stop: 52398, Start Num: 190
Candidate Starts for Maskar_62:
(Start: 173 @54281 has 3 MA's), (Start: 190 @54257 has 336 MA's), (Start: 222 @54233 has 3 MA's), (Start: 232 @54227 has 2 MA's), (261, 54185), (274, 54164), (336, 54050), (339, 54044), (355, 54014), (390, 53954), (398, 53933), (416, 53879), (429, 53867), (436, 53849), (440, 53837), (487, 53732), (552, 53675), (569, 53639), (573, 53627), (583, 53603), (590, 53591), (601, 53573), (611, 53555), (622, 53537), (643, 53498), (648, 53489), (649, 53486), (651, 53483), (761, 53228), (796, 53126), (804, 53093), (812, 53072), (848, 52979), (851, 52970), (877, 52907), (900, 52871), (901, 52868), (906, 52853), (939, 52775), (946, 52763), (953, 52742), (976, 52703), (1013, 52613), (1022, 52595), (1024, 52589), (1032, 52574), (1040, 52550), (1042, 52535), (1043, 52532), (1047, 52520), (1059, 52496), (1066, 52475), (1082, 52448), (1093, 52424),

Gene: MasterPo_57 Start: 52506, Stop: 50677, Start Num: 190
Candidate Starts for MasterPo_57:
(Start: 190 @52506 has 336 MA's), (Start: 232 @52479 has 2 MA's), (Start: 255 @52449 has 8 MA's), (261, 52437), (Start: 276 @52410 has 2 MA's), (278, 52407), (284, 52398), (307, 52380), (362, 52284), (390, 52233), (399, 52209), (406, 52185), (467, 52047), (482, 52023), (487, 52011), (552, 51954), (569, 51918), (573, 51906), (583, 51882), (630, 51798), (648, 51768), (649, 51765), (664, 51735), (727, 51591), (755, 51525), (771, 51486), (775, 51474), (780, 51453), (787, 51435), (804, 51378), (840, 51294), (848, 51264), (851, 51255), (875, 51189), (897, 51162), (900, 51153), (906, 51135), (919, 51111), (939, 51057), (946, 51045), (953, 51024), (992, 50955), (1013, 50895), (1022, 50877), (1036, 50844), (1040, 50832), (1042, 50817), (1043, 50814), (1047, 50802), (1059, 50778), (1060, 50775), (1082, 50727), (1083, 50724), (1093, 50703), (1100, 50682),

Gene: Matalotodo_60 Start: 54575, Stop: 52716, Start Num: 190
Candidate Starts for Matalotodo_60:
(Start: 173 @54599 has 3 MA's), (Start: 190 @54575 has 336 MA's), (Start: 222 @54551 has 3 MA's), (Start: 232 @54545 has 2 MA's), (261, 54503), (274, 54482), (336, 54368), (339, 54362), (355, 54332), (390, 54272), (398, 54251), (416, 54197), (429, 54185), (436, 54167), (440, 54155), (487, 54050), (552, 53993), (569, 53957), (573, 53945), (585, 53918), (601, 53891), (611, 53873), (622, 53855), (643, 53816), (648, 53807), (649, 53804), (761, 53546), (796, 53444), (804, 53411), (812, 53390), (848, 53297), (851, 53288), (877, 53225), (900, 53189), (901, 53186), (906, 53171), (939, 53093), (946, 53081), (953, 53060), (976, 53021), (1013, 52931), (1022, 52913), (1024, 52907), (1032, 52892), (1040, 52868), (1042, 52853), (1043, 52850), (1047, 52838), (1059, 52814), (1082, 52766), (1093, 52742),

Gene: Maureen_42 Start: 31379, Stop: 33223, Start Num: 228
Candidate Starts for Maureen_42:
(Start: 135 @31253 has 1 MA's), (138, 31256), (Start: 228 @31379 has 960 MA's), (410, 31676), (572, 31952), (623, 32054), (633, 32075), (707, 32213), (736, 32276), (803, 32471), (806, 32477), (815, 32501), (836, 32558), (853, 32615), (855, 32624), (906, 32741), (929, 32789), (1006, 32948), (1009, 32960), (1038, 33041), (1066, 33119), (1090, 33164),

Gene: Maverick_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Maverick_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Maxo_46 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Maxo_46:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Mayonnaise_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Mayonnaise_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Mazhar510_45 Start: 31571, Stop: 29745, Start Num: 228
Candidate Starts for Mazhar510_45:
(Start: 228 @31571 has 960 MA's), (Start: 241 @31550 has 3 MA's), (263, 31520), (278, 31490), (384, 31328), (394, 31310), (424, 31238), (430, 31229), (480, 31109), (490, 31085), (570, 30992), (592, 30944), (607, 30923), (626, 30884), (696, 30752), (707, 30731), (729, 30686), (733, 30674), (798, 30521), (803, 30500), (847, 30377), (855, 30347), (871, 30308), (900, 30242), (901, 30239), (906, 30224), (919, 30200), (929, 30176), (1013, 29969), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: Mazun_10 Start: 8383, Stop: 6185, Start Num: 161

Candidate Starts for Mazun_10:
(Start: 161 @8383 has 21 MA's), (235, 8293), (261, 8257), (Start: 285 @8221 has 1 MA's), (299, 8203), (341, 8152), (356, 8122), (402, 8029), (422, 7972), (430, 7948), (464, 7864), (482, 7825), (516, 7708), (544, 7615), (571, 7549), (605, 7504), (654, 7417), (682, 7366), (692, 7333), (714, 7282), (723, 7258), (724, 7255), (753, 7174), (761, 7153), (844, 6889), (857, 6841), (858, 6838), (875, 6766), (880, 6751), (898, 6688), (913, 6658), (1011, 6424), (1013, 6412), (1020, 6391), (1035, 6355), (1036, 6352), (1043, 6322), (1053, 6307), (1064, 6277), (1066, 6268), (1073, 6256),

Gene: McFly_45 Start: 29627, Stop: 27786, Start Num: 228
Candidate Starts for McFly_45:
(Start: 228 @29627 has 960 MA's), (360, 29423), (399, 29348), (400, 29345), (410, 29318), (415, 29303), (424, 29291), (448, 29240), (485, 29150), (490, 29138), (570, 29045), (585, 29006), (595, 28988), (607, 28973), (643, 28907), (660, 28874), (663, 28871), (710, 28769), (742, 28709), (778, 28625), (803, 28544), (835, 28460), (836, 28457), (840, 28448), (847, 28421), (855, 28391), (895, 28331), (906, 28292), (1009, 28076), (1010, 28073), (1013, 28052), (1066, 27917), (1073, 27905), (1079, 27896), (1082, 27893), (1115, 27800),

Gene: McGalleon_41 Start: 30345, Stop: 28477, Start Num: 301
Candidate Starts for McGalleon_41:
(288, 30360), (Start: 301 @30345 has 153 MA's), (Start: 305 @30336 has 5 MA's), (378, 30192), (380, 30189), (431, 30078), (435, 30069), (439, 30057), (442, 30051), (483, 29946), (552, 29853), (582, 29778), (586, 29769), (590, 29757), (607, 29727), (614, 29712), (618, 29706), (621, 29700), (726, 29478), (847, 29163), (850, 29154), (851, 29151), (855, 29133), (873, 29091), (908, 29001), (917, 28974), (974, 28842), (992, 28803), (1010, 28743), (1013, 28719), (1028, 28680), (1040, 28647), (1044, 28635),

Gene: McGuire_45 Start: 34382, Stop: 32553, Start Num: 228
Candidate Starts for McGuire_45:
(Start: 228 @34382 has 960 MA's), (366, 34169), (399, 34106), (410, 34076), (418, 34055), (424, 34049), (430, 34040), (479, 33923), (490, 33896), (570, 33803), (576, 33788), (590, 33755), (621, 33704), (622, 33701), (654, 33647), (659, 33635), (680, 33605), (690, 33575), (709, 33530), (729, 33491), (803, 33311), (821, 33263), (840, 33215), (851, 33176), (855, 33158), (871, 33119), (895, 33098), (900, 33077), (905, 33062), (955, 32939), (1036, 32768), (1041, 32744), (1062, 32696), (1066, 32684), (1079, 32663), (1083, 32657), (1102, 32609), (1109, 32594),

Gene: McSinger_45 Start: 34792, Stop: 32966, Start Num: 228
Candidate Starts for McSinger_45:
(Start: 228 @34792 has 960 MA's), (366, 34579), (373, 34564), (410, 34486), (418, 34465), (424, 34459), (430, 34450), (479, 34333), (490, 34306), (570, 34213), (576, 34198), (590, 34165), (621, 34114), (622, 34111), (659, 34045), (680, 34015), (690, 33985), (709, 33940), (729, 33901), (803, 33721), (821, 33673), (836, 33634), (855, 33568), (871, 33529), (895, 33508), (900, 33487), (906, 33469), (935, 33403), (1009, 33253), (1010, 33250), (1018, 33214), (1032, 33190), (1035, 33181), (1039, 33169), (1066, 33094), (1079, 33073),

Gene: Mcshane_59 Start: 54021, Stop: 52162, Start Num: 190
Candidate Starts for Mcshane_59:
(Start: 173 @54045 has 3 MA's), (Start: 190 @54021 has 336 MA's), (Start: 222 @53997 has 3 MA's), (Start: 232 @53991 has 2 MA's), (261, 53949), (274, 53928), (336, 53814), (339, 53808), (355, 53778), (390, 53718), (398, 53697), (416, 53643), (429, 53631), (436, 53613), (440, 53601), (487, 53496), (552, 53439), (569, 53403), (573, 53391), (585, 53364), (601, 53337), (611, 53319), (622, 53301), (643, 53262), (648, 53253), (649, 53250), (761, 52992), (796, 52890), (804, 52857), (812, 52836), (848, 52743), (851, 52734), (877, 52671), (900, 52635), (901, 52632), (906, 52617), (939, 52539), (946, 52527), (953, 52506), (976, 52467), (1013, 52377), (1022, 52359), (1024, 52353), (1032, 52338),

(1040, 52314), (1042, 52299), (1043, 52296), (1047, 52284), (1059, 52260), (1082, 52212), (1093, 52188),

Gene: Mecca_60 Start: 54586, Stop: 52727, Start Num: 190
Candidate Starts for Mecca_60:
(Start: 173 @54610 has 3 MA's), (Start: 190 @54586 has 336 MA's), (Start: 222 @54562 has 3 MA's), (Start: 232 @54556 has 2 MA's), (261, 54514), (274, 54493), (336, 54379), (339, 54373), (355, 54343), (390, 54283), (398, 54262), (416, 54208), (429, 54196), (436, 54178), (440, 54166), (487, 54061), (552, 54004), (569, 53968), (573, 53956), (583, 53932), (590, 53920), (601, 53902), (611, 53884), (622, 53866), (643, 53827), (648, 53818), (649, 53815), (651, 53812), (796, 53455), (804, 53422), (812, 53401), (848, 53308), (851, 53299), (877, 53236), (900, 53200), (901, 53197), (906, 53182), (939, 53104), (946, 53092), (953, 53071), (976, 53032), (1013, 52942), (1022, 52924), (1024, 52918), (1032, 52903), (1040, 52879), (1042, 52864), (1043, 52861), (1047, 52849), (1059, 52825), (1082, 52777), (1093, 52753),

Gene: Medusa_45 Start: 31569, Stop: 29743, Start Num: 228
Candidate Starts for Medusa_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: MeeZee_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for MeeZee_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: MegTheThird_43 Start: 30783, Stop: 28990, Start Num: 228
Candidate Starts for MegTheThird_43:
(Start: 228 @30783 has 960 MA's), (235, 30774), (360, 30579), (379, 30546), (384, 30537), (399, 30504), (424, 30447), (435, 30426), (490, 30294), (570, 30201), (587, 30156), (643, 30063), (659, 30033), (733, 29874), (764, 29835), (767, 29829), (803, 29706), (851, 29571), (855, 29553), (900, 29472), (949, 29355), (955, 29334), (1009, 29238), (1013, 29214), (1042, 29136), (1066, 29079), (1073, 29067), (1079, 29058),

Gene: Megamind20_61 Start: 54009, Stop: 52150, Start Num: 190
Candidate Starts for Megamind20_61:
(Start: 173 @54033 has 3 MA's), (Start: 190 @54009 has 336 MA's), (Start: 222 @53985 has 3 MA's), (Start: 232 @53979 has 2 MA's), (261, 53937), (274, 53916), (336, 53802), (339, 53796), (355, 53766), (390, 53706), (398, 53685), (416, 53631), (429, 53619), (436, 53601), (440, 53589), (487, 53484), (552, 53427), (569, 53391), (573, 53379), (585, 53352), (601, 53325), (611, 53307), (622, 53289), (643, 53250), (648, 53241), (649, 53238), (761, 52980), (796, 52878), (804, 52845), (812, 52824), (848, 52731), (851, 52722), (877, 52659), (900, 52623), (901, 52620), (906, 52605), (939, 52527), (946, 52515), (953, 52494), (976, 52455), (1013, 52365), (1022, 52347), (1024, 52341), (1032, 52326), (1040, 52302), (1042, 52287), (1043, 52284), (1047, 52272), (1059, 52248), (1082, 52200), (1093, 52176),

Gene: Megatron_61 Start: 54535, Stop: 52676, Start Num: 190
Candidate Starts for Megatron_61:

(Start: 173 @54559 has 3 MA's), (Start: 190 @54535 has 336 MA's), (Start: 222 @54511 has 3 MA's), (Start: 232 @54505 has 2 MA's), (261, 54463), (274, 54442), (336, 54328), (339, 54322), (355, 54292), (390, 54232), (398, 54211), (416, 54157), (429, 54145), (436, 54127), (440, 54115), (487, 54010), (552, 53953), (569, 53917), (573, 53905), (585, 53878), (601, 53851), (611, 53833), (622, 53815), (643, 53776), (648, 53767), (649, 53764), (761, 53506), (796, 53404), (804, 53371), (812, 53350), (848, 53257), (851, 53248), (877, 53185), (900, 53149), (901, 53146), (906, 53131), (939, 53053), (946, 53041), (953, 53020), (976, 52981), (1013, 52891), (1022, 52873), (1024, 52867), (1032, 52852), (1040, 52828), (1042, 52813), (1043, 52810), (1047, 52798), (1059, 52774), (1082, 52726), (1093, 52702),

Gene: Melc17_60 Start: 54852, Stop: 52993, Start Num: 190
Candidate Starts for Melc17_60:
(Start: 173 @54876 has 3 MA's), (Start: 190 @54852 has 336 MA's), (Start: 222 @54828 has 3 MA's), (Start: 232 @54822 has 2 MA's), (261, 54780), (274, 54759), (336, 54645), (339, 54639), (355, 54609), (390, 54549), (398, 54528), (416, 54474), (429, 54462), (436, 54444), (440, 54432), (487, 54327), (552, 54270), (569, 54234), (573, 54222), (583, 54198), (590, 54186), (601, 54168), (611, 54150), (622, 54132), (643, 54093), (648, 54084), (649, 54081), (651, 54078), (796, 53721), (804, 53688), (812, 53667), (848, 53574), (851, 53565), (877, 53502), (900, 53466), (901, 53463), (906, 53448), (939, 53370), (946, 53358), (953, 53337), (976, 53298), (1013, 53208), (1022, 53190), (1024, 53184), (1032, 53169), (1040, 53145), (1042, 53130), (1043, 53127), (1047, 53115), (1059, 53091), (1082, 53043), (1093, 53019),

Gene: MelsMeow_61 Start: 54310, Stop: 52451, Start Num: 190
Candidate Starts for MelsMeow_61:
(Start: 173 @54334 has 3 MA's), (Start: 190 @54310 has 336 MA's), (Start: 222 @54286 has 3 MA's), (Start: 232 @54280 has 2 MA's), (261, 54238), (274, 54217), (336, 54103), (339, 54097), (355, 54067), (390, 54007), (398, 53986), (416, 53932), (429, 53920), (436, 53902), (440, 53890), (487, 53785), (552, 53728), (569, 53692), (573, 53680), (585, 53653), (611, 53608), (643, 53551), (648, 53542), (649, 53539), (761, 53281), (796, 53179), (804, 53146), (812, 53125), (848, 53032), (851, 53023), (877, 52960), (900, 52924), (901, 52921), (906, 52906), (939, 52828), (946, 52816), (953, 52795), (976, 52756), (1013, 52666), (1022, 52648), (1024, 52642), (1032, 52627), (1040, 52603), (1042, 52588), (1043, 52585), (1047, 52573), (1059, 52549), (1066, 52528), (1082, 52501), (1093, 52477), (1098, 52462),

Gene: Melvin_47 Start: 31565, Stop: 29739, Start Num: 228
Candidate Starts for Melvin_47:
(Start: 228 @31565 has 960 MA's), (Start: 241 @31544 has 3 MA's), (263, 31514), (278, 31484), (384, 31322), (394, 31304), (424, 31232), (430, 31223), (480, 31103), (490, 31079), (570, 30986), (592, 30938), (607, 30917), (626, 30878), (696, 30746), (707, 30725), (729, 30680), (733, 30668), (798, 30515), (803, 30494), (847, 30371), (855, 30341), (871, 30302), (900, 30236), (901, 30233), (906, 30218), (919, 30194), (929, 30170), (1013, 29963), (1066, 29828), (1073, 29816), (1079, 29807),

Gene: Mercedes_34 Start: 25967, Stop: 24108, Start Num: 301
Candidate Starts for Mercedes_34:
(Start: 301 @25967 has 153 MA's), (304, 25961), (346, 25868), (378, 25814), (382, 25808), (431, 25700), (439, 25679), (442, 25673), (460, 25622), (496, 25538), (586, 25403), (590, 25391), (607, 25361), (614, 25346), (618, 25340), (623, 25328), (706, 25157), (733, 25091), (749, 25058), (773, 24989), (777, 24977), (847, 24797), (855, 24767), (901, 24656), (908, 24632), (909, 24629), (917, 24605), (992, 24434), (1010, 24374), (1013, 24350), (1017, 24338), (1020, 24329), (1040, 24278), (1068, 24206),

Gene: Merida02_40 Start: 28933, Stop: 27068, Start Num: 301
Candidate Starts for Merida02_40:

(Start: 241 @29020 has 3 MA's), (Start: 301 @28933 has 153 MA's), (Start: 305 @28924 has 5 MA's), (353, 28819), (360, 28810), (378, 28780), (380, 28777), (435, 28657), (439, 28645), (442, 28639), (483, 28534), (494, 28507), (582, 28366), (585, 28360), (586, 28357), (590, 28345), (606, 28318), (607, 28315), (614, 28300), (618, 28294), (621, 28288), (638, 28255), (701, 28126), (726, 28066), (847, 27751), (850, 27742), (851, 27739), (855, 27721), (873, 27679), (877, 27673), (879, 27664), (888, 27649), (908, 27592), (974, 27433), (989, 27403), (992, 27394), (1010, 27334), (1013, 27310), (1028, 27271), (1040, 27238), (1044, 27226), (1068, 27166),

Gene: Mesh1_62 Start: 54599, Stop: 52740, Start Num: 190
Candidate Starts for Mesh1_62:
(Start: 173 @54623 has 3 MA's), (Start: 190 @54599 has 336 MA's), (Start: 222 @54575 has 3 MA's), (Start: 232 @54569 has 2 MA's), (261, 54527), (274, 54506), (336, 54392), (339, 54386), (355, 54356), (390, 54296), (398, 54275), (416, 54221), (429, 54209), (436, 54191), (440, 54179), (487, 54074), (552, 54017), (569, 53981), (573, 53969), (585, 53942), (601, 53915), (611, 53897), (622, 53879), (643, 53840), (648, 53831), (649, 53828), (761, 53570), (796, 53468), (804, 53435), (812, 53414), (848, 53321), (851, 53312), (877, 53249), (900, 53213), (901, 53210), (906, 53195), (939, 53117), (946, 53105), (953, 53084), (976, 53045), (1013, 52955), (1022, 52937), (1024, 52931), (1032, 52916), (1040, 52892), (1042, 52877), (1043, 52874), (1047, 52862), (1059, 52838), (1082, 52790), (1093, 52766),

Gene: Mesmerelda_60 Start: 54579, Stop: 52720, Start Num: 190
Candidate Starts for Mesmerelda_60:
(Start: 173 @54603 has 3 MA's), (Start: 190 @54579 has 336 MA's), (Start: 222 @54555 has 3 MA's), (Start: 232 @54549 has 2 MA's), (261, 54507), (274, 54486), (336, 54372), (339, 54366), (355, 54336), (390, 54276), (398, 54255), (416, 54201), (429, 54189), (436, 54171), (440, 54159), (487, 54054), (552, 53997), (569, 53961), (573, 53949), (585, 53922), (601, 53895), (611, 53877), (622, 53859), (643, 53820), (648, 53811), (649, 53808), (761, 53550), (796, 53448), (804, 53415), (812, 53394), (848, 53301), (851, 53292), (877, 53229), (900, 53193), (901, 53190), (906, 53175), (939, 53097), (946, 53085), (953, 53064), (976, 53025), (1013, 52935), (1022, 52917), (1024, 52911), (1032, 52896), (1040, 52872), (1042, 52857), (1043, 52854), (1047, 52842), (1059, 52818), (1082, 52770), (1093, 52746),

Gene: MetalQZJ_44 Start: 34704, Stop: 32875, Start Num: 228
Candidate Starts for MetalQZJ_44:
(Start: 228 @34704 has 960 MA's), (366, 34491), (373, 34476), (399, 34428), (410, 34398), (418, 34377), (424, 34371), (430, 34362), (448, 34320), (479, 34245), (490, 34218), (570, 34125), (576, 34110), (621, 34026), (622, 34023), (659, 33957), (680, 33927), (690, 33897), (709, 33852), (729, 33813), (803, 33633), (821, 33585), (840, 33537), (851, 33498), (855, 33480), (871, 33441), (895, 33420), (900, 33399), (905, 33384), (955, 33261), (1036, 33090), (1041, 33066), (1062, 33018), (1066, 33006), (1079, 32985), (1083, 32979), (1102, 32931), (1109, 32916),

Gene: Methuselah_45 Start: 31880, Stop: 30066, Start Num: 228
Candidate Starts for Methuselah_45:
(Start: 228 @31880 has 960 MA's), (257, 31841), (263, 31829), (360, 31676), (369, 31661), (399, 31604), (424, 31547), (430, 31538), (448, 31496), (465, 31445), (490, 31394), (552, 31340), (570, 31301), (590, 31253), (607, 31229), (626, 31190), (643, 31163), (659, 31133), (703, 31040), (709, 31028), (732, 30980), (742, 30965), (803, 30809), (823, 30758), (835, 30725), (836, 30722), (855, 30656), (871, 30617), (901, 30545), (919, 30506), (929, 30482), (935, 30464), (949, 30431), (992, 30350), (1013, 30290), (1045, 30203), (1066, 30155), (1073, 30143), (1079, 30134), (1082, 30131),

Gene: MiamiPanther_10 Start: 8474, Stop: 6273, Start Num: 176
Candidate Starts for MiamiPanther_10:

(106, 8588), (138, 8525), (Start: 176 @8474 has 7 MA's), (209, 8429), (247, 8372), (304, 8288), (388, 8138), (395, 8123), (451, 7970), (479, 7901), (508, 7823), (511, 7802), (645, 7502), (673, 7448), (692, 7400), (711, 7355), (714, 7349), (753, 7265), (778, 7190), (841, 6995), (844, 6983), (857, 6935), (877, 6857), (879, 6848), (910, 6758), (1019, 6485), (1066, 6359), (1073, 6347), (1077, 6338), (1090, 6308),

Gene: Micasa_40 Start: 30726, Stop: 28861, Start Num: 228
Candidate Starts for Micasa_40:
(Start: 228 @30726 has 960 MA's), (263, 30675), (304, 30615), (343, 30552), (360, 30522), (362, 30519), (396, 30462), (399, 30450), (410, 30420), (424, 30393), (490, 30240), (570, 30144), (590, 30096), (637, 30012), (643, 30006), (685, 29934), (696, 29901), (703, 29886), (709, 29874), (761, 29775), (803, 29640), (815, 29610), (821, 29592), (823, 29589), (836, 29553), (840, 29544), (847, 29517), (855, 29487), (871, 29448), (900, 29406), (906, 29388), (929, 29340), (949, 29289), (977, 29235), (982, 29226), (992, 29208), (1013, 29148), (1022, 29130), (1058, 29037), (1066, 29013), (1073, 29001), (1115, 28896),

Gene: MichaelPhcott_61 Start: 54184, Stop: 52325, Start Num: 190
Candidate Starts for MichaelPhcott_61:
(Start: 173 @54208 has 3 MA's), (Start: 190 @54184 has 336 MA's), (Start: 222 @54160 has 3 MA's), (Start: 232 @54154 has 2 MA's), (261, 54112), (274, 54091), (336, 53977), (339, 53971), (355, 53941), (390, 53881), (398, 53860), (416, 53806), (429, 53794), (436, 53776), (440, 53764), (487, 53659), (552, 53602), (569, 53566), (573, 53554), (583, 53530), (590, 53518), (601, 53500), (611, 53482), (622, 53464), (643, 53425), (648, 53416), (649, 53413), (651, 53410), (796, 53053), (804, 53020), (812, 52999), (848, 52906), (851, 52897), (877, 52834), (900, 52798), (901, 52795), (906, 52780), (939, 52702), (946, 52690), (953, 52669), (976, 52630), (1013, 52540), (1022, 52522), (1024, 52516), (1032, 52501), (1040, 52477), (1042, 52462), (1043, 52459), (1047, 52447), (1059, 52423), (1082, 52375), (1093, 52351),

Gene: Michkear_41 Start: 30473, Stop: 32386, Start Num: 228
Candidate Starts for Michkear_41:
(Start: 228 @30473 has 960 MA's), (383, 30704), (418, 30791), (544, 31046), (572, 31112), (590, 31154), (626, 31220), (633, 31235), (707, 31373), (736, 31436), (803, 31631), (828, 31694), (845, 31748), (895, 31862), (936, 31970), (1036, 32195), (1041, 32219), (1058, 32255), (1066, 32279),

Gene: Michley_44 Start: 34222, Stop: 32396, Start Num: 228
Candidate Starts for Michley_44:
(Start: 228 @34222 has 960 MA's), (366, 34009), (410, 33916), (418, 33895), (424, 33889), (430, 33880), (479, 33763), (490, 33736), (570, 33643), (576, 33628), (590, 33595), (621, 33544), (622, 33541), (659, 33475), (680, 33445), (690, 33415), (709, 33370), (729, 33331), (803, 33151), (821, 33103), (836, 33064), (855, 32998), (871, 32959), (895, 32938), (900, 32917), (906, 32899), (935, 32833), (1009, 32683), (1010, 32680), (1018, 32644), (1032, 32620), (1035, 32611), (1039, 32599), (1066, 32524), (1079, 32503),

Gene: Microwolf_48 Start: 31854, Stop: 30040, Start Num: 228
Candidate Starts for Microwolf_48:
(Start: 228 @31854 has 960 MA's), (257, 31815), (263, 31803), (360, 31650), (369, 31635), (399, 31578), (424, 31521), (430, 31512), (448, 31470), (465, 31419), (490, 31368), (570, 31275), (590, 31227), (595, 31218), (607, 31203), (626, 31164), (643, 31137), (659, 31107), (703, 31014), (709, 31002), (732, 30954), (742, 30939), (803, 30783), (836, 30696), (855, 30630), (871, 30591), (901, 30519), (919, 30480), (929, 30456), (935, 30438), (949, 30405), (958, 30378), (992, 30324), (1013, 30264), (1042, 30186), (1066, 30129), (1073, 30117), (1079, 30108),

Gene: MiculUcigas_44 Start: 31260, Stop: 29473, Start Num: 228
Candidate Starts for MiculUcigas_44:

(Start: 228 @31260 has 960 MA's), (360, 31056), (362, 31053), (366, 31047), (384, 31017), (399, 30984), (400, 30981), (410, 30954), (424, 30927), (448, 30876), (490, 30774), (570, 30681), (590, 30633), (595, 30624), (607, 30609), (643, 30543), (686, 30462), (707, 30414), (778, 30270), (803, 30189), (823, 30138), (835, 30105), (855, 30036), (871, 29997), (895, 29976), (900, 29955), (904, 29943), (990, 29763), (992, 29757), (1009, 29721), (1013, 29697), (1042, 29619), (1066, 29562), (1073, 29550),

Gene: Midas2_38 Start: 30444, Stop: 28579, Start Num: 228
Candidate Starts for Midas2_38:
(Start: 228 @30444 has 960 MA's), (263, 30393), (304, 30333), (343, 30270), (360, 30240), (362, 30237), (396, 30180), (399, 30168), (410, 30138), (424, 30111), (490, 29958), (570, 29862), (590, 29814), (637, 29730), (643, 29724), (660, 29691), (685, 29652), (696, 29619), (703, 29604), (709, 29592), (761, 29493), (803, 29358), (815, 29328), (821, 29310), (823, 29307), (836, 29271), (840, 29262), (847, 29235), (855, 29205), (871, 29166), (900, 29124), (906, 29106), (929, 29058), (949, 29007), (977, 28953), (982, 28944), (992, 28926), (1013, 28866), (1022, 28848), (1058, 28755), (1066, 28731), (1073, 28719), (1115, 28614),

Gene: Miko_43 Start: 31812, Stop: 30025, Start Num: 228
Candidate Starts for Miko_43:
(Start: 228 @31812 has 960 MA's), (362, 31605), (366, 31599), (384, 31569), (399, 31536), (400, 31533), (415, 31491), (424, 31479), (490, 31326), (570, 31233), (590, 31185), (595, 31176), (607, 31161), (643, 31095), (707, 30966), (778, 30822), (803, 30741), (823, 30690), (835, 30657), (836, 30654), (855, 30588), (871, 30549), (895, 30528), (924, 30453), (929, 30441), (949, 30390), (958, 30363), (982, 30327), (992, 30309), (1009, 30273), (1013, 30249), (1042, 30171), (1066, 30114), (1073, 30102), (1079, 30093),

Gene: Mikota_59 Start: 53562, Stop: 51703, Start Num: 190
Candidate Starts for Mikota_59:
(Start: 173 @53586 has 3 MA's), (Start: 190 @53562 has 336 MA's), (Start: 222 @53538 has 3 MA's), (Start: 232 @53532 has 2 MA's), (249, 53505), (261, 53490), (274, 53469), (336, 53355), (339, 53349), (355, 53319), (390, 53259), (398, 53238), (416, 53184), (429, 53172), (436, 53154), (440, 53142), (487, 53037), (552, 52980), (569, 52944), (573, 52932), (585, 52905), (611, 52860), (643, 52803), (648, 52794), (649, 52791), (651, 52788), (796, 52431), (804, 52398), (812, 52377), (848, 52284), (851, 52275), (877, 52212), (900, 52176), (901, 52173), (906, 52158), (939, 52080), (946, 52068), (953, 52047), (976, 52008), (1013, 51918), (1022, 51900), (1024, 51894), (1032, 51879), (1040, 51855), (1042, 51840), (1043, 51837), (1047, 51825), (1059, 51801), (1082, 51753), (1093, 51729),

Gene: Milcery_39 Start: 30563, Stop: 28704, Start Num: 228
Candidate Starts for Milcery_39:
(Start: 228 @30563 has 960 MA's), (263, 30512), (304, 30452), (343, 30389), (360, 30359), (362, 30356), (396, 30299), (399, 30287), (410, 30257), (424, 30230), (490, 30077), (570, 29981), (582, 29948), (590, 29933), (637, 29849), (643, 29843), (685, 29771), (696, 29738), (703, 29723), (709, 29711), (761, 29612), (803, 29477), (815, 29447), (821, 29429), (823, 29426), (836, 29390), (840, 29381), (845, 29360), (848, 29351), (855, 29324), (856, 29321), (895, 29264), (900, 29243), (949, 29126), (977, 29072), (982, 29063), (992, 29045), (1013, 28985), (1022, 28967), (1058, 28874), (1066, 28850), (1073, 28838), (1121, 28721), (1122, 28718),

Gene: MilleFeuille_44 Start: 34649, Stop: 32823, Start Num: 228
Candidate Starts for MilleFeuille_44:
(Start: 228 @34649 has 960 MA's), (366, 34436), (373, 34421), (410, 34343), (418, 34322), (424, 34316), (430, 34307), (479, 34190), (490, 34163), (570, 34070), (621, 33971), (622, 33968), (659, 33902), (680, 33872), (690, 33842), (709, 33797), (729, 33758), (803, 33578), (821, 33530), (836, 33491), (855, 33425), (871, 33386), (895, 33365), (900, 33344), (906, 33326), (935, 33260), (1009,

33110), (1010, 33107), (1018, 33071), (1032, 33047), (1035, 33038), (1039, 33026), (1045, 32999), (1066, 32951), (1079, 32930),

Gene: Millski_44 Start: 31571, Stop: 29745, Start Num: 228
Candidate Starts for Millski_44:
(Start: 228 @31571 has 960 MA's), (Start: 241 @31550 has 3 MA's), (263, 31520), (278, 31490), (384, 31328), (394, 31310), (424, 31238), (430, 31229), (480, 31109), (490, 31085), (570, 30992), (592, 30944), (607, 30923), (626, 30884), (696, 30752), (707, 30731), (729, 30686), (733, 30674), (798, 30521), (803, 30500), (847, 30377), (855, 30347), (871, 30308), (900, 30242), (901, 30239), (906, 30224), (919, 30200), (929, 30176), (1013, 29969), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: MillyPhilly_39 Start: 28927, Stop: 27062, Start Num: 301
Candidate Starts for MillyPhilly_39:
(Start: 241 @29014 has 3 MA's), (Start: 243 @29011 has 1 MA's), (Start: 301 @28927 has 153 MA's), (Start: 305 @28918 has 5 MA's), (353, 28813), (360, 28804), (378, 28774), (380, 28771), (435, 28651), (439, 28639), (442, 28633), (483, 28528), (494, 28501), (582, 28360), (585, 28354), (586, 28351), (590, 28339), (606, 28312), (607, 28309), (614, 28294), (618, 28288), (621, 28282), (638, 28249), (726, 28060), (847, 27745), (850, 27736), (851, 27733), (855, 27715), (873, 27673), (877, 27667), (879, 27658), (888, 27643), (908, 27586), (974, 27427), (989, 27397), (992, 27388), (1010, 27328), (1013, 27304), (1028, 27265), (1040, 27232), (1044, 27220), (1068, 27160),

Gene: Milomuff_42 Start: 29387, Stop: 31261, Start Num: 217
Candidate Starts for Milomuff_42:
(Start: 217 @29387 has 68 MA's), (Start: 273 @29456 has 1 MA's), (Start: 285 @29477 has 1 MA's), (430, 29723), (436, 29738), (448, 29765), (626, 30059), (696, 30194), (741, 30293), (784, 30416), (803, 30476), (806, 30482), (823, 30527), (830, 30542), (833, 30557), (845, 30593), (855, 30629), (898, 30722), (936, 30815), (973, 30893), (1009, 30965), (1018, 31004), (1038, 31046), (1041, 31064), (1058, 31100), (1066, 31124), (1079, 31145),

Gene: Mimi_99 Start: 77797, Stop: 79593, Start Num: 238
Candidate Starts for Mimi_99:
(Start: 238 @77797 has 11 MA's), (304, 77893), (429, 78109), (439, 78136), (442, 78142), (479, 78211), (493, 78247), (613, 78394), (616, 78400), (626, 78421), (633, 78436), (729, 78625), (753, 78670), (769, 78703), (774, 78721), (783, 78754), (798, 78793), (803, 78814), (806, 78820), (845, 78934), (870, 79018), (876, 79024), (879, 79036), (898, 79084), (902, 79096), (919, 79132), (932, 79165), (935, 79174), (953, 79219), (960, 79237), (1002, 79321), (1009, 79342), (1014, 79369), (1022, 79384), (1036, 79417), (1041, 79441), (1049, 79465), (1066, 79501), (1083, 79528),

Gene: MinecraftSteve_48 Start: 29943, Stop: 28153, Start Num: 228
Candidate Starts for MinecraftSteve_48:
(Start: 228 @29943 has 960 MA's), (343, 29769), (399, 29664), (400, 29661), (410, 29634), (424, 29607), (448, 29556), (490, 29454), (570, 29361), (585, 29322), (595, 29304), (696, 29115), (729, 29049), (768, 28989), (778, 28950), (796, 28899), (798, 28890), (803, 28869), (823, 28818), (835, 28785), (847, 28746), (855, 28716), (895, 28656), (900, 28635), (919, 28593), (930, 28566), (977, 28464), (1009, 28401), (1010, 28398), (1066, 28242), (1073, 28230), (1082, 28218),

Gene: MiniBoss_58 Start: 53368, Stop: 51509, Start Num: 190
Candidate Starts for MiniBoss_58:
(Start: 173 @53392 has 3 MA's), (Start: 190 @53368 has 336 MA's), (Start: 222 @53344 has 3 MA's), (Start: 232 @53338 has 2 MA's), (249, 53311), (261, 53296), (274, 53275), (336, 53161), (339, 53155), (355, 53125), (390, 53065), (398, 53044), (416, 52990), (429, 52978), (436, 52960), (440, 52948), (487, 52843), (552, 52786), (569, 52750), (573, 52738), (585, 52711), (590, 52702), (611, 52666), (643, 52609), (648, 52600), (649, 52597), (651, 52594), (796, 52237), (804, 52204), (812, 52183),

(848, 52090), (851, 52081), (877, 52018), (900, 51982), (901, 51979), (906, 51964), (939, 51886), (946, 51874), (953, 51853), (976, 51814), (1013, 51724), (1022, 51706), (1024, 51700), (1032, 51685), (1040, 51661), (1042, 51646), (1043, 51643), (1047, 51631), (1059, 51607), (1082, 51559), (1093, 51535),

Gene: MiniMommy_46 Start: 30558, Stop: 32420, Start Num: 228
Candidate Starts for MiniMommy_46:
(148, 30459), (160, 30477), (Start: 228 @30558 has 960 MA's), (261, 30606), (362, 30765), (366, 30771), (418, 30876), (442, 30921), (565, 31128), (626, 31257), (686, 31362), (707, 31410), (745, 31494), (803, 31668), (835, 31752), (845, 31785), (848, 31794), (867, 31845), (898, 31914), (945, 32025), (977, 32094), (981, 32100), (1024, 32205), (1066, 32316),

Gene: MiniVolent_36 Start: 28446, Stop: 26545, Start Num: 296
Candidate Starts for MiniVolent_36:
(23, 29121), (258, 28512), (Start: 296 @28446 has 13 MA's), (346, 28347), (360, 28323), (369, 28308), (378, 28293), (382, 28287), (396, 28260), (402, 28236), (429, 28185), (439, 28158), (442, 28152), (460, 28101), (474, 28062), (502, 28002), (560, 27933), (582, 27876), (586, 27867), (590, 27855), (607, 27825), (636, 27768), (706, 27621), (770, 27465), (851, 27216), (855, 27198), (873, 27156), (889, 27126), (897, 27105), (908, 27069), (1010, 26811), (1013, 26787), (1014, 26784), (1017, 26775), (1025, 26754), (1028, 26748), (1068, 26643),

Gene: Minispark_43 Start: 30716, Stop: 28923, Start Num: 228
Candidate Starts for Minispark_43:
(Start: 228 @30716 has 960 MA's), (235, 30707), (263, 30665), (317, 30578), (360, 30512), (366, 30503), (370, 30494), (381, 30476), (400, 30434), (410, 30407), (415, 30392), (424, 30380), (448, 30329), (490, 30227), (565, 30149), (570, 30134), (595, 30077), (659, 29966), (704, 29870), (733, 29807), (764, 29768), (767, 29762), (803, 29639), (840, 29543), (847, 29516), (855, 29486), (871, 29447), (900, 29405), (949, 29288), (990, 29213), (1009, 29171), (1042, 29069), (1066, 29012), (1073, 29000), (1079, 28991),

Gene: Minnow_54 Start: 52522, Stop: 50681, Start Num: 184
Candidate Starts for Minnow_54:
(107, 52642), (Start: 184 @52522 has 3 MA's), (249, 52465), (261, 52450), (355, 52285), (362, 52276), (384, 52234), (390, 52225), (391, 52222), (399, 52201), (416, 52150), (435, 52126), (449, 52093), (452, 52084), (457, 52081), (458, 52078), (467, 52051), (552, 51958), (569, 51922), (573, 51910), (648, 51772), (649, 51769), (692, 51679), (771, 51484), (776, 51469), (780, 51451), (787, 51433), (796, 51409), (804, 51376), (846, 51268), (848, 51262), (851, 51253), (875, 51190), (885, 51175), (897, 51163), (900, 51154), (906, 51136), (915, 51121), (939, 51058), (946, 51046), (953, 51025), (954, 51019), (976, 50986), (992, 50956), (1002, 50941), (1013, 50896), (1022, 50878), (1024, 50872), (1040, 50833), (1041, 50821), (1042, 50818), (1043, 50815), (1047, 50803), (1059, 50779), (1093, 50707),

Gene: Miramae_44 Start: 31710, Stop: 29881, Start Num: 228
Candidate Starts for Miramae_44:
(Start: 228 @31710 has 960 MA's), (263, 31659), (278, 31629), (384, 31467), (394, 31449), (424, 31377), (430, 31368), (480, 31248), (490, 31224), (570, 31131), (592, 31083), (626, 31023), (654, 30978), (696, 30891), (707, 30870), (729, 30825), (733, 30813), (803, 30639), (840, 30543), (847, 30516), (848, 30513), (855, 30486), (871, 30447), (900, 30378), (901, 30375), (906, 30360), (919, 30336), (926, 30318), (929, 30312), (931, 30306), (1013, 30105), (1066, 29970), (1073, 29958), (1079, 29949),

Gene: Mireles_44 Start: 29952, Stop: 28171, Start Num: 221
Candidate Starts for Mireles_44:

(76, 30225), (91, 30177), (168, 30021), (Start: 221 @29952 has 14 MA's), (299, 29829), (328, 29781), (439, 29589), (448, 29571), (482, 29508), (483, 29502), (493, 29478), (570, 29409), (613, 29328), (626, 29301), (633, 29286), (672, 29223), (709, 29142), (712, 29136), (729, 29100), (733, 29088), (766, 29055), (780, 29001), (798, 28950), (803, 28929), (806, 28923), (841, 28827), (848, 28803), (855, 28776), (871, 28737), (932, 28593), (949, 28551), (958, 28524), (991, 28455), (1014, 28389), (1029, 28359), (1038, 28332), (1042, 28311), (1043, 28308), (1049, 28290), (1059, 28275), (1101, 28182), (1102, 28179),

Gene: Mischief19_57 Start: 49917, Stop: 47956, Start Num: 298
Candidate Starts for Mischief19_57:
(Start: 298 @49917 has 15 MA's), (343, 49848), (390, 49770), (402, 49734), (409, 49716), (435, 49644), (449, 49611), (497, 49494), (524, 49428), (549, 49362), (572, 49311), (577, 49299), (639, 49185), (665, 49137), (679, 49116), (716, 49026), (742, 48957), (747, 48948), (769, 48906), (778, 48876), (782, 48861), (793, 48837), (806, 48792), (826, 48732), (835, 48705), (851, 48654), (856, 48633), (859, 48621), (870, 48582), (886, 48552), (895, 48522), (900, 48501), (912, 48474), (919, 48459), (936, 48414), (939, 48405), (955, 48363), (968, 48342), (987, 48300), (995, 48273), (1008, 48231), (1024, 48180), (1036, 48156), (1040, 48144), (1042, 48129), (1066, 48072), (1079, 48051), (1087, 48033),

Gene: Misomonster_49 Start: 31883, Stop: 30069, Start Num: 228
Candidate Starts for Misomonster_49:
(Start: 228 @31883 has 960 MA's), (257, 31844), (263, 31832), (360, 31679), (369, 31664), (399, 31607), (424, 31550), (430, 31541), (448, 31499), (465, 31448), (490, 31397), (552, 31343), (570, 31304), (590, 31256), (607, 31232), (626, 31193), (643, 31166), (659, 31136), (703, 31043), (709, 31031), (732, 30983), (742, 30968), (803, 30812), (823, 30761), (835, 30728), (836, 30725), (855, 30659), (871, 30620), (901, 30548), (919, 30509), (929, 30485), (935, 30467), (949, 30434), (992, 30353), (1013, 30293), (1045, 30206), (1066, 30158), (1073, 30146), (1079, 30137), (1082, 30134),

Gene: MissAmericana_12 Start: 8648, Stop: 6444, Start Num: 166
Candidate Starts for MissAmericana_12:
(Start: 166 @8648 has 1 MA's), (205, 8600), (252, 8540), (Start: 285 @8480 has 1 MA's), (287, 8477), (Start: 301 @8459 has 153 MA's), (327, 8423), (356, 8369), (365, 8357), (388, 8312), (393, 8300), (481, 8066), (508, 7994), (513, 7967), (516, 7949), (519, 7925), (547, 7859), (557, 7835), (612, 7751), (626, 7742), (657, 7682), (664, 7667), (711, 7559), (714, 7553), (729, 7523), (733, 7511), (778, 7391), (784, 7367), (817, 7271), (841, 7199), (851, 7166), (862, 7106), (871, 7079), (899, 6980), (913, 6947), (931, 6902), (934, 6893), (1011, 6728), (1013, 6716), (1042, 6629), (1043, 6626), (1062, 6548), (1066, 6533), (1073, 6521),

Gene: MissSwiss_41 Start: 28328, Stop: 30193, Start Num: 228
Candidate Starts for MissSwiss_41:
(Start: 228 @28328 has 960 MA's), (261, 28376), (343, 28502), (410, 28625), (452, 28715), (572, 28922), (576, 28931), (626, 29030), (633, 29045), (660, 29090), (707, 29183), (768, 29321), (803, 29441), (815, 29471), (828, 29504), (830, 29507), (836, 29528), (855, 29594), (898, 29687), (929, 29759), (977, 29867), (1009, 29930), (1066, 30089), (1071, 30098),

Gene: MissWhite_43 Start: 29746, Stop: 27959, Start Num: 228
Candidate Starts for MissWhite_43:
(Start: 228 @29746 has 960 MA's), (360, 29542), (362, 29539), (366, 29533), (384, 29503), (396, 29482), (398, 29473), (399, 29470), (410, 29440), (424, 29413), (435, 29392), (448, 29362), (490, 29260), (570, 29167), (590, 29119), (595, 29110), (607, 29095), (643, 29029), (696, 28921), (707, 28900), (803, 28675), (823, 28624), (840, 28579), (855, 28522), (871, 28483), (895, 28462), (924, 28387), (931, 28369), (949, 28324), (982, 28261), (990, 28249), (1009, 28207), (1013, 28183), (1038, 28126), (1042, 28105), (1066, 28048), (1073, 28036), (1079, 28027),

Gene: MitKao_60 Start: 54033, Stop: 52174, Start Num: 190
Candidate Starts for MitKao_60:
(Start: 173 @54057 has 3 MA's), (Start: 190 @54033 has 336 MA's), (Start: 222 @54009 has 3 MA's), (Start: 232 @54003 has 2 MA's), (261, 53961), (274, 53940), (336, 53826), (339, 53820), (355, 53790), (390, 53730), (398, 53709), (416, 53655), (429, 53643), (436, 53625), (440, 53613), (487, 53508), (552, 53451), (569, 53415), (573, 53403), (585, 53376), (611, 53331), (643, 53274), (648, 53265), (649, 53262), (796, 52902), (804, 52869), (812, 52848), (848, 52755), (851, 52746), (877, 52683), (900, 52647), (901, 52644), (906, 52629), (939, 52551), (946, 52539), (953, 52518), (976, 52479), (1013, 52389), (1022, 52371), (1024, 52365), (1032, 52350), (1040, 52326), (1042, 52311), (1043, 52308), (1047, 52296), (1059, 52272), (1082, 52224), (1093, 52200),

Gene: Mithril_53 Start: 54005, Stop: 52182, Start Num: 182
Candidate Starts for Mithril_53:
(Start: 163 @54023 has 29 MA's), (Start: 182 @54005 has 33 MA's), (Start: 232 @53981 has 2 MA's), (261, 53939), (274, 53918), (324, 53831), (386, 53726), (398, 53699), (402, 53684), (436, 53618), (449, 53588), (452, 53579), (457, 53576), (458, 53573), (552, 53453), (560, 53435), (569, 53417), (573, 53405), (585, 53378), (622, 53315), (643, 53276), (648, 53267), (649, 53264), (664, 53234), (685, 53198), (761, 53012), (775, 52973), (776, 52970), (787, 52934), (796, 52910), (804, 52877), (846, 52769), (848, 52763), (851, 52754), (900, 52655), (901, 52652), (906, 52637), (939, 52559), (946, 52547), (953, 52526), (955, 52517), (976, 52487), (992, 52457), (1007, 52430), (1013, 52397), (1024, 52373), (1040, 52334), (1043, 52316), (1047, 52304), (1059, 52280), (1078, 52238), (1082, 52232), (1093, 52208),

Gene: Mkhuseli_44 Start: 34107, Stop: 32281, Start Num: 228
Candidate Starts for Mkhuseli_44:
(Start: 228 @34107 has 960 MA's), (366, 33894), (373, 33879), (410, 33801), (418, 33780), (424, 33774), (430, 33765), (479, 33648), (490, 33621), (570, 33528), (576, 33513), (590, 33480), (621, 33429), (622, 33426), (659, 33360), (680, 33330), (690, 33300), (709, 33255), (729, 33216), (803, 33036), (815, 33006), (821, 32988), (836, 32949), (855, 32883), (900, 32802), (901, 32799), (935, 32718), (1009, 32568), (1010, 32565), (1018, 32529), (1032, 32505), (1035, 32496), (1039, 32484), (1066, 32409), (1079, 32388),

Gene: MmasiCarm_59 Start: 54089, Stop: 52272, Start Num: 230
Candidate Starts for MmasiCarm_59:
(110, 54272), (Start: 230 @54089 has 52 MA's), (249, 54059), (366, 53879), (435, 53726), (439, 53714), (452, 53684), (458, 53678), (487, 53615), (489, 53609), (552, 53558), (566, 53531), (569, 53522), (590, 53474), (649, 53369), (694, 53273), (722, 53222), (775, 53078), (787, 53039), (797, 53009), (804, 52982), (810, 52970), (846, 52874), (848, 52868), (851, 52859), (854, 52847), (883, 52775), (900, 52745), (906, 52727), (912, 52718), (939, 52649), (946, 52637), (953, 52616), (992, 52547), (1002, 52532), (1010, 52508), (1013, 52487), (1022, 52469), (1024, 52463), (1038, 52430), (1040, 52424), (1043, 52406), (1047, 52394), (1054, 52382), (1059, 52370), (1078, 52328), (1093, 52298),

Gene: Moleficent_10 Start: 8379, Stop: 6181, Start Num: 161
Candidate Starts for Moleficent_10:
(Start: 161 @8379 has 21 MA's), (235, 8289), (258, 8259), (261, 8253), (299, 8199), (341, 8148), (356, 8118), (402, 8025), (422, 7968), (430, 7944), (464, 7860), (482, 7821), (516, 7704), (544, 7611), (548, 7599), (571, 7545), (605, 7500), (606, 7497), (654, 7413), (682, 7362), (692, 7329), (714, 7278), (723, 7254), (724, 7251), (753, 7170), (799, 7023), (844, 6885), (857, 6837), (858, 6834), (875, 6762), (880, 6747), (898, 6684), (913, 6654), (1011, 6420), (1013, 6408), (1019, 6390), (1036, 6348), (1043, 6318), (1064, 6273), (1066, 6264), (1073, 6252),

Gene: Molivia_56 Start: 35308, Stop: 33140, Start Num: 213
Candidate Starts for Molivia_56:
(Start: 213 @35308 has 13 MA's), (234, 35281), (251, 35254), (299, 35170), (354, 35062), (367, 35044), (368, 35041), (382, 35017), (398, 34981), (400, 34975), (408, 34951), (411, 34942), (429, 34885), (432, 34876), (437, 34864), (446, 34846), (447, 34843), (506, 34693), (507, 34690), (520, 34651), (601, 34456), (607, 34444), (631, 34393), (634, 34387), (646, 34372), (653, 34357), (667, 34330), (728, 34174), (737, 34150), (797, 33988), (813, 33940), (824, 33907), (835, 33883), (848, 33841), (877, 33766), (896, 33706), (926, 33628), (929, 33622), (940, 33589), (973, 33526), (976, 33520), (994, 33481), (1009, 33433), (1015, 33403), (1037, 33349), (1040, 33340), (1050, 33298), (1054, 33280), (1059, 33268), (1066, 33244), (1075, 33229), (1091, 33187),

Gene: Molly_45 Start: 33982, Stop: 32153, Start Num: 228
Candidate Starts for Molly_45:
(Start: 228 @33982 has 960 MA's), (366, 33769), (373, 33754), (399, 33706), (410, 33676), (418, 33655), (424, 33649), (430, 33640), (479, 33523), (490, 33496), (570, 33403), (576, 33388), (583, 33367), (621, 33304), (622, 33301), (659, 33235), (690, 33175), (709, 33130), (729, 33091), (803, 32911), (821, 32863), (840, 32815), (851, 32776), (855, 32758), (871, 32719), (895, 32698), (900, 32677), (905, 32662), (955, 32539), (1036, 32368), (1041, 32344), (1062, 32296), (1066, 32284), (1079, 32263), (1083, 32257), (1102, 32209), (1109, 32194),

Gene: MonChoix_37 Start: 28950, Stop: 27082, Start Num: 301
Candidate Starts for MonChoix_37:
(185, 29115), (218, 29070), (249, 29025), (Start: 301 @28950 has 153 MA's), (Start: 305 @28941 has 5 MA's), (431, 28683), (433, 28677), (439, 28662), (442, 28656), (494, 28524), (545, 28470), (582, 28383), (586, 28374), (590, 28362), (606, 28335), (607, 28332), (614, 28317), (618, 28311), (623, 28299), (768, 27981), (850, 27759), (851, 27756), (855, 27738), (873, 27696), (908, 27606), (917, 27579), (974, 27447), (989, 27417), (992, 27408), (1010, 27348), (1013, 27324), (1015, 27318), (1028, 27285), (1040, 27252), (1044, 27240),

Gene: Monet_48 Start: 36234, Stop: 34408, Start Num: 228
Candidate Starts for Monet_48:
(Start: 228 @36234 has 960 MA's), (366, 36021), (373, 36006), (410, 35928), (418, 35907), (424, 35901), (430, 35892), (479, 35775), (490, 35748), (570, 35655), (576, 35640), (621, 35556), (622, 35553), (659, 35487), (680, 35457), (690, 35427), (709, 35382), (729, 35343), (803, 35163), (821, 35115), (836, 35076), (855, 35010), (871, 34971), (895, 34950), (900, 34929), (906, 34911), (935, 34845), (1009, 34695), (1010, 34692), (1018, 34656), (1032, 34632), (1039, 34611), (1045, 34584), (1066, 34536), (1079, 34515),

Gene: MoneyMay_48 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for MoneyMay_48:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (732, 30952), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: Montavir_47 Start: 31853, Stop: 30039, Start Num: 228
Candidate Starts for Montavir_47:
(Start: 228 @31853 has 960 MA's), (257, 31814), (263, 31802), (360, 31649), (369, 31634), (399, 31577), (424, 31520), (430, 31511), (448, 31469), (465, 31418), (490, 31367), (570, 31274), (590, 31226), (595, 31217), (607, 31202), (626, 31163), (643, 31136), (659, 31106), (703, 31013), (732, 30953), (742, 30938), (803, 30782), (836, 30695), (855, 30629), (871, 30590), (901, 30518), (919,

30479), (929, 30455), (935, 30437), (949, 30404), (958, 30377), (992, 30323), (1013, 30263), (1042, 30185), (1066, 30128), (1073, 30116), (1079, 30107),

Gene: Moose_44 Start: 34479, Stop: 32653, Start Num: 228
Candidate Starts for Moose_44:
(Start: 228 @34479 has 960 MA's), (366, 34266), (373, 34251), (410, 34173), (418, 34152), (424, 34146), (430, 34137), (479, 34020), (490, 33993), (570, 33900), (576, 33885), (583, 33864), (590, 33852), (621, 33801), (622, 33798), (659, 33732), (680, 33702), (690, 33672), (709, 33627), (729, 33588), (803, 33408), (821, 33360), (836, 33321), (855, 33255), (871, 33216), (895, 33195), (900, 33174), (906, 33156), (935, 33090), (1009, 32940), (1010, 32937), (1018, 32901), (1032, 32877), (1035, 32868), (1039, 32856), (1066, 32781), (1079, 32760),

Gene: Morgushi_60 Start: 54022, Stop: 52163, Start Num: 190
Candidate Starts for Morgushi_60:
(Start: 173 @54046 has 3 MA's), (Start: 190 @54022 has 336 MA's), (Start: 222 @53998 has 3 MA's), (Start: 232 @53992 has 2 MA's), (261, 53950), (274, 53929), (336, 53815), (339, 53809), (355, 53779), (390, 53719), (398, 53698), (416, 53644), (429, 53632), (436, 53614), (440, 53602), (487, 53497), (552, 53440), (569, 53404), (573, 53392), (585, 53365), (611, 53320), (643, 53263), (648, 53254), (649, 53251), (796, 52891), (804, 52858), (812, 52837), (848, 52744), (851, 52735), (877, 52672), (900, 52636), (901, 52633), (906, 52618), (939, 52540), (946, 52528), (953, 52507), (976, 52468), (1013, 52378), (1022, 52360), (1024, 52354), (1032, 52339), (1040, 52315), (1042, 52300), (1043, 52297), (1047, 52285), (1059, 52261), (1082, 52213), (1093, 52189),

Gene: Morpher26_44 Start: 31543, Stop: 29714, Start Num: 228
Candidate Starts for Morpher26_44:
(Start: 228 @31543 has 960 MA's), (263, 31492), (278, 31462), (384, 31300), (394, 31282), (399, 31267), (424, 31210), (430, 31201), (480, 31081), (490, 31057), (544, 31015), (570, 30964), (592, 30916), (607, 30895), (626, 30856), (654, 30811), (657, 30805), (696, 30724), (707, 30703), (729, 30658), (798, 30493), (803, 30472), (855, 30319), (871, 30280), (901, 30208), (906, 30193), (919, 30169), (926, 30151), (929, 30145), (931, 30139), (1013, 29938), (1066, 29803), (1073, 29791), (1079, 29782),

Gene: Morrigan_40 Start: 28385, Stop: 26493, Start Num: 296
Candidate Starts for Morrigan_40:
(Start: 296 @28385 has 13 MA's), (Start: 305 @28376 has 5 MA's), (337, 28319), (346, 28289), (360, 28265), (369, 28250), (378, 28235), (382, 28229), (391, 28211), (402, 28178), (439, 28100), (442, 28094), (552, 27893), (586, 27809), (590, 27797), (607, 27767), (614, 27752), (618, 27746), (621, 27740), (623, 27734), (624, 27731), (752, 27464), (770, 27413), (789, 27347), (855, 27146), (873, 27104), (889, 27074), (897, 27053), (908, 27017), (934, 26945), (992, 26819), (1010, 26759), (1013, 26735), (1017, 26723), (1068, 26591),

Gene: Morrill_10 Start: 8332, Stop: 6134, Start Num: 163
Candidate Starts for Morrill_10:
(83, 8512), (98, 8461), (129, 8389), (Start: 163 @8332 has 29 MA's), (235, 8242), (258, 8212), (261, 8206), (Start: 285 @8170 has 1 MA's), (299, 8152), (341, 8101), (356, 8071), (402, 7978), (422, 7921), (464, 7813), (482, 7774), (516, 7657), (544, 7564), (548, 7552), (571, 7498), (587, 7456), (624, 7423), (654, 7366), (682, 7315), (692, 7282), (714, 7231), (723, 7207), (724, 7204), (753, 7123), (761, 7102), (844, 6838), (857, 6790), (875, 6715), (880, 6700), (898, 6637), (913, 6607), (1011, 6373), (1013, 6361), (1020, 6340), (1035, 6304), (1036, 6301), (1043, 6271), (1053, 6256), (1064, 6226), (1066, 6217), (1073, 6205),

Gene: Morrissey_47 Start: 37547, Stop: 35145, Start Num: 11
Candidate Starts for Morrissey_47:

(Start: 11 @37547 has 3 MA's), (25, 37442), (27, 37418), (34, 37364), (39, 37337), (41, 37334), (50, 37292), (51, 37289), (66, 37244), (71, 37223), (85, 37199), (96, 37160), (103, 37145), (111, 37121), (116, 37112), (119, 37106), (Start: 152 @37043 has 1 MA's), (160, 37031), (202, 36977), (278, 36869), (307, 36842), (315, 36821), (397, 36677), (415, 36623), (416, 36620), (419, 36614), (439, 36584), (447, 36569), (473, 36512), (483, 36491), (487, 36485), (490, 36476), (569, 36395), (597, 36332), (617, 36299), (632, 36272), (649, 36242), (664, 36212), (722, 36092), (724, 36083), (769, 35966), (775, 35948), (783, 35918), (787, 35909), (796, 35885), (804, 35852), (840, 35771), (846, 35747), (848, 35741), (877, 35669), (897, 35642), (906, 35615), (919, 35591), (939, 35537), (946, 35525), (998, 35414), (1001, 35411), (1042, 35285), (1043, 35282), (1054, 35258), (1059, 35246), (1082, 35195), (1093, 35171), (1100, 35150),

Gene: Morrow_46 Start: 31576, Stop: 29750, Start Num: 228
Candidate Starts for Morrow_46:
(Start: 228 @31576 has 960 MA's), (Start: 241 @31555 has 3 MA's), (263, 31525), (278, 31495), (384, 31333), (394, 31315), (424, 31243), (430, 31234), (480, 31114), (490, 31090), (570, 30997), (592, 30949), (607, 30928), (626, 30889), (696, 30757), (707, 30736), (729, 30691), (733, 30679), (798, 30526), (803, 30505), (847, 30382), (855, 30352), (871, 30313), (900, 30247), (901, 30244), (906, 30229), (919, 30205), (929, 30181), (1013, 29974), (1066, 29839), (1073, 29827), (1079, 29818),

Gene: Mortcellus_58 Start: 54744, Stop: 52927, Start Num: 230
Candidate Starts for Mortcellus_58:
(110, 54927), (Start: 230 @54744 has 52 MA's), (249, 54714), (366, 54534), (435, 54381), (439, 54369), (452, 54339), (458, 54333), (487, 54270), (489, 54264), (552, 54213), (566, 54186), (569, 54177), (590, 54129), (649, 54024), (694, 53928), (722, 53877), (775, 53733), (787, 53694), (797, 53664), (804, 53637), (810, 53625), (846, 53529), (848, 53523), (851, 53514), (854, 53502), (883, 53430), (900, 53400), (906, 53382), (912, 53373), (939, 53304), (946, 53292), (953, 53271), (992, 53202), (1002, 53187), (1010, 53163), (1013, 53142), (1024, 53118), (1040, 53079), (1043, 53061), (1047, 53049), (1054, 53037), (1059, 53025), (1078, 52983), (1093, 52953),

Gene: Morty_61 Start: 54544, Stop: 52685, Start Num: 190
Candidate Starts for Morty_61:
(Start: 173 @54568 has 3 MA's), (Start: 190 @54544 has 336 MA's), (Start: 222 @54520 has 3 MA's), (Start: 232 @54514 has 2 MA's), (261, 54472), (274, 54451), (336, 54337), (339, 54331), (355, 54301), (390, 54241), (398, 54220), (416, 54166), (429, 54154), (436, 54136), (440, 54124), (487, 54019), (552, 53962), (569, 53926), (573, 53914), (583, 53890), (590, 53878), (601, 53860), (611, 53842), (622, 53824), (643, 53785), (648, 53776), (649, 53773), (651, 53770), (796, 53413), (804, 53380), (812, 53359), (848, 53266), (851, 53257), (877, 53194), (900, 53158), (901, 53155), (906, 53140), (939, 53062), (946, 53050), (953, 53029), (976, 52990), (1013, 52900), (1022, 52882), (1024, 52876), (1032, 52861), (1040, 52837), (1042, 52822), (1043, 52819), (1047, 52807), (1059, 52783), (1082, 52735), (1093, 52711),

Gene: Morty007_58 Start: 54530, Stop: 52713, Start Num: 230
Candidate Starts for Morty007_58:
(46, 54914), (110, 54713), (Start: 230 @54530 has 52 MA's), (249, 54500), (366, 54320), (435, 54167), (439, 54155), (452, 54125), (458, 54119), (487, 54056), (489, 54050), (552, 53999), (569, 53963), (590, 53915), (649, 53810), (694, 53714), (722, 53663), (775, 53519), (787, 53480), (797, 53450), (804, 53423), (810, 53411), (846, 53315), (848, 53309), (851, 53300), (854, 53288), (883, 53216), (900, 53186), (906, 53168), (912, 53159), (939, 53090), (946, 53078), (953, 53057), (992, 52988), (1002, 52973), (1010, 52949), (1024, 52904), (1040, 52865), (1043, 52847), (1047, 52835), (1054, 52823), (1059, 52811), (1078, 52769), (1093, 52739),

Gene: Mosaic_59 Start: 54027, Stop: 52168, Start Num: 190
Candidate Starts for Mosaic_59:

(Start: 173 @54051 has 3 MA's), (Start: 190 @54027 has 336 MA's), (Start: 222 @54003 has 3 MA's), (Start: 232 @53997 has 2 MA's), (261, 53955), (274, 53934), (336, 53820), (339, 53814), (355, 53784), (390, 53724), (398, 53703), (416, 53649), (429, 53637), (436, 53619), (440, 53607), (487, 53502), (552, 53445), (569, 53409), (573, 53397), (585, 53370), (611, 53325), (643, 53268), (648, 53259), (649, 53256), (796, 52896), (804, 52863), (812, 52842), (848, 52749), (851, 52740), (877, 52677), (900, 52641), (901, 52638), (906, 52623), (939, 52545), (946, 52533), (953, 52512), (976, 52473), (1013, 52383), (1022, 52365), (1024, 52359), (1032, 52344), (1040, 52320), (1042, 52305), (1043, 52302), (1047, 52290), (1059, 52266), (1082, 52218), (1093, 52194),

Gene: Moss_38 Start: 27679, Stop: 29661, Start Num: 227
Candidate Starts for Moss_38:
(Start: 227 @27679 has 33 MA's), (343, 27853), (360, 27883), (386, 27916), (400, 27949), (435, 28024), (447, 28051), (544, 28252), (626, 28426), (707, 28582), (768, 28720), (795, 28807), (803, 28840), (815, 28870), (836, 28927), (855, 28993), (898, 29086), (1013, 29353), (1024, 29377), (1066, 29488),

Gene: MossRose_53 Start: 47650, Stop: 45833, Start Num: 225
Candidate Starts for MossRose_53:
(Start: 225 @47650 has 16 MA's), (Start: 232 @47641 has 2 MA's), (249, 47614), (259, 47602), (274, 47578), (278, 47569), (362, 47431), (381, 47395), (411, 47320), (449, 47245), (487, 47167), (552, 47110), (569, 47074), (573, 47062), (583, 47038), (635, 46945), (649, 46921), (658, 46903), (775, 46630), (787, 46591), (797, 46561), (804, 46534), (846, 46426), (848, 46420), (851, 46411), (897, 46321), (900, 46312), (901, 46309), (902, 46306), (906, 46294), (939, 46216), (946, 46204), (948, 46198), (953, 46183), (981, 46135), (1007, 46087), (1013, 46054), (1024, 46030), (1040, 45991), (1042, 45976), (1059, 45931), (1093, 45859),

Gene: MrGordo_44 Start: 34016, Stop: 32190, Start Num: 228
Candidate Starts for MrGordo_44:
(Start: 228 @34016 has 960 MA's), (366, 33803), (373, 33788), (399, 33740), (410, 33710), (418, 33689), (424, 33683), (430, 33674), (479, 33557), (490, 33530), (570, 33437), (576, 33422), (590, 33389), (621, 33338), (622, 33335), (659, 33269), (680, 33239), (690, 33209), (709, 33164), (729, 33125), (803, 32945), (821, 32897), (836, 32858), (855, 32792), (871, 32753), (895, 32732), (900, 32711), (906, 32693), (935, 32627), (1009, 32477), (1010, 32474), (1018, 32438), (1032, 32414), (1035, 32405), (1039, 32393), (1045, 32366), (1066, 32318), (1079, 32297),

Gene: MrPhizzler_63 Start: 54490, Stop: 52631, Start Num: 190
Candidate Starts for MrPhizzler_63:
(Start: 173 @54514 has 3 MA's), (Start: 190 @54490 has 336 MA's), (Start: 222 @54466 has 3 MA's), (Start: 232 @54460 has 2 MA's), (261, 54418), (274, 54397), (336, 54283), (339, 54277), (355, 54247), (390, 54187), (398, 54166), (416, 54112), (429, 54100), (436, 54082), (440, 54070), (487, 53965), (552, 53908), (569, 53872), (573, 53860), (583, 53836), (590, 53824), (601, 53806), (611, 53788), (622, 53770), (643, 53731), (648, 53722), (649, 53719), (651, 53716), (761, 53461), (796, 53359), (804, 53326), (812, 53305), (848, 53212), (851, 53203), (877, 53140), (900, 53104), (901, 53101), (906, 53086), (939, 53008), (946, 52996), (953, 52975), (976, 52936), (1013, 52846), (1022, 52828), (1024, 52822), (1032, 52807), (1040, 52783), (1042, 52768), (1043, 52765), (1047, 52753), (1059, 52729), (1066, 52708), (1082, 52681), (1093, 52657),

Gene: MrWorldwide_39 Start: 28937, Stop: 27072, Start Num: 301
Candidate Starts for MrWorldwide_39:
(Start: 241 @29024 has 3 MA's), (Start: 243 @29021 has 1 MA's), (Start: 301 @28937 has 153 MA's), (Start: 305 @28928 has 5 MA's), (353, 28823), (360, 28814), (378, 28784), (380, 28781), (435, 28661), (439, 28649), (442, 28643), (483, 28538), (494, 28511), (582, 28370), (585, 28364), (586, 28361), (590, 28349), (606, 28322), (607, 28319), (614, 28304), (618, 28298), (621, 28292), (638, 28259),

(701, 28130), (726, 28070), (847, 27755), (850, 27746), (851, 27743), (855, 27725), (873, 27683), (877, 27677), (879, 27668), (888, 27653), (908, 27596), (974, 27437), (989, 27407), (992, 27398), (1010, 27338), (1013, 27314), (1028, 27275), (1040, 27242), (1044, 27230), (1068, 27170),

Gene: Mryolo_42 Start: 33954, Stop: 32128, Start Num: 228
Candidate Starts for Mryolo_42:
(Start: 228 @33954 has 960 MA's), (366, 33741), (399, 33678), (410, 33648), (418, 33627), (424, 33621), (430, 33612), (479, 33495), (490, 33468), (570, 33375), (576, 33360), (590, 33327), (621, 33276), (622, 33273), (659, 33207), (680, 33177), (690, 33147), (709, 33102), (729, 33063), (803, 32883), (821, 32835), (836, 32796), (855, 32730), (871, 32691), (895, 32670), (900, 32649), (906, 32631), (935, 32565), (1009, 32415), (1010, 32412), (1018, 32376), (1032, 32352), (1035, 32343), (1039, 32331), (1045, 32304), (1066, 32256), (1079, 32235),

Gene: MsUbiquitous_43 Start: 29585, Stop: 31459, Start Num: 217
Candidate Starts for MsUbiquitous_43:
(Start: 215 @29582 has 12 MA's), (Start: 217 @29585 has 68 MA's), (Start: 273 @29654 has 1 MA's), (Start: 285 @29675 has 1 MA's), (399, 29855), (430, 29921), (448, 29963), (626, 30257), (696, 30392), (741, 30491), (784, 30614), (803, 30674), (806, 30680), (823, 30725), (833, 30755), (845, 30791), (855, 30827), (898, 30920), (936, 31013), (973, 31091), (1009, 31163), (1018, 31202), (1038, 31244), (1041, 31262), (1066, 31322), (1079, 31343),

Gene: MuchMore_51 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for MuchMore_51:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: Mudpuppy_38 Start: 29455, Stop: 31320, Start Num: 228
Candidate Starts for Mudpuppy_38:
(Start: 228 @29455 has 960 MA's), (261, 29503), (410, 29752), (452, 29842), (572, 30049), (576, 30058), (622, 30148), (626, 30157), (633, 30172), (660, 30217), (686, 30262), (707, 30310), (733, 30367), (768, 30448), (795, 30535), (803, 30568), (815, 30598), (836, 30655), (855, 30721), (867, 30745), (898, 30814), (929, 30886), (932, 30895), (977, 30994), (1009, 31057), (1013, 31081), (1058, 31192), (1066, 31216), (1071, 31225),

Gene: Mudslide_53 Start: 54263, Stop: 52440, Start Num: 182
Candidate Starts for Mudslide_53:
(Start: 163 @54281 has 29 MA's), (Start: 182 @54263 has 33 MA's), (Start: 232 @54239 has 2 MA's), (249, 54212), (261, 54197), (274, 54176), (324, 54089), (386, 53984), (402, 53942), (436, 53876), (449, 53846), (452, 53837), (457, 53834), (458, 53831), (467, 53804), (552, 53711), (560, 53693), (569, 53675), (573, 53663), (580, 53648), (585, 53636), (622, 53573), (643, 53534), (648, 53525), (649, 53522), (664, 53492), (685, 53456), (775, 53231), (776, 53228), (787, 53192), (796, 53168), (804, 53135), (846, 53027), (848, 53021), (851, 53012), (900, 52913), (901, 52910), (906, 52895), (939, 52817), (946, 52805), (953, 52784), (955, 52775), (976, 52745), (1007, 52688), (1013, 52655), (1022, 52637), (1024, 52631), (1040, 52592), (1043, 52574), (1047, 52562), (1059, 52538), (1078, 52496), (1082, 52490), (1093, 52466),

Gene: Mulan_60 Start: 54261, Stop: 52402, Start Num: 190
Candidate Starts for Mulan_60:

(Start: 173 @54285 has 3 MA's), (Start: 190 @54261 has 336 MA's), (Start: 222 @54237 has 3 MA's), (Start: 232 @54231 has 2 MA's), (261, 54189), (274, 54168), (336, 54054), (339, 54048), (355, 54018), (390, 53958), (398, 53937), (416, 53883), (429, 53871), (436, 53853), (440, 53841), (487, 53736), (552, 53679), (569, 53643), (573, 53631), (585, 53604), (601, 53577), (611, 53559), (622, 53541), (643, 53502), (648, 53493), (649, 53490), (761, 53232), (796, 53130), (804, 53097), (812, 53076), (848, 52983), (851, 52974), (877, 52911), (900, 52875), (901, 52872), (906, 52857), (939, 52779), (946, 52767), (953, 52746), (976, 52707), (1013, 52617), (1022, 52599), (1024, 52593), (1032, 52578), (1040, 52554), (1042, 52539), (1043, 52536), (1047, 52524), (1059, 52500), (1082, 52452), (1093, 52428),

Gene: Mulaychimus_59 Start: 54106, Stop: 52289, Start Num: 230
Candidate Starts for Mulaychimus_59:
(110, 54289), (Start: 230 @54106 has 52 MA's), (249, 54076), (366, 53896), (435, 53743), (439, 53731), (452, 53701), (458, 53695), (487, 53632), (489, 53626), (552, 53575), (569, 53539), (590, 53491), (649, 53386), (694, 53290), (722, 53239), (775, 53095), (787, 53056), (797, 53026), (804, 52999), (810, 52987), (846, 52891), (848, 52885), (851, 52876), (854, 52864), (883, 52792), (900, 52762), (906, 52744), (912, 52735), (939, 52666), (946, 52654), (953, 52633), (992, 52564), (1002, 52549), (1010, 52525), (1013, 52504), (1022, 52486), (1024, 52480), (1038, 52447), (1040, 52441), (1043, 52423), (1047, 52411), (1054, 52399), (1059, 52387), (1078, 52345), (1093, 52315),

Gene: Mulciber_44 Start: 30327, Stop: 28540, Start Num: 228
Candidate Starts for Mulciber_44:
(Start: 228 @30327 has 960 MA's), (360, 30123), (399, 30051), (410, 30021), (424, 29994), (572, 29742), (595, 29691), (643, 29610), (668, 29565), (707, 29481), (733, 29424), (766, 29382), (778, 29337), (803, 29256), (823, 29205), (836, 29169), (855, 29103), (895, 29043), (897, 29031), (938, 28929), (949, 28905), (954, 28887), (992, 28824), (1007, 28797), (1009, 28788), (1013, 28764), (1066, 28629), (1073, 28617), (1079, 28608),

Gene: Mule_42 Start: 32266, Stop: 30440, Start Num: 228
Candidate Starts for Mule_42:
(Start: 228 @32266 has 960 MA's), (366, 32053), (373, 32038), (410, 31960), (418, 31939), (424, 31933), (430, 31924), (462, 31840), (479, 31807), (490, 31780), (570, 31687), (576, 31672), (583, 31651), (590, 31639), (621, 31588), (622, 31585), (659, 31519), (680, 31489), (690, 31459), (709, 31414), (729, 31375), (803, 31195), (821, 31147), (836, 31108), (855, 31042), (900, 30961), (901, 30958), (935, 30877), (1009, 30727), (1010, 30724), (1018, 30688), (1035, 30655), (1039, 30643), (1057, 30595), (1066, 30568), (1079, 30547),

Gene: Munch_45 Start: 30776, Stop: 28989, Start Num: 228
Candidate Starts for Munch_45:
(Start: 228 @30776 has 960 MA's), (360, 30572), (399, 30500), (410, 30470), (424, 30443), (572, 30191), (595, 30140), (643, 30059), (668, 30014), (733, 29873), (766, 29831), (778, 29786), (803, 29705), (823, 29654), (836, 29618), (855, 29552), (895, 29492), (897, 29480), (938, 29378), (949, 29354), (954, 29336), (992, 29273), (1007, 29246), (1009, 29237), (1013, 29213), (1066, 29078), (1073, 29066), (1079, 29057),

Gene: Mundrea_44 Start: 31530, Stop: 29701, Start Num: 228
Candidate Starts for Mundrea_44:
(Start: 228 @31530 has 960 MA's), (263, 31479), (278, 31449), (384, 31287), (394, 31269), (399, 31254), (424, 31197), (430, 31188), (480, 31068), (490, 31044), (570, 30951), (592, 30903), (607, 30882), (626, 30843), (654, 30798), (696, 30711), (701, 30702), (707, 30690), (729, 30645), (733, 30633), (803, 30459), (840, 30363), (847, 30336), (848, 30333), (855, 30306), (869, 30276), (871, 30267), (900, 30198), (901, 30195), (906, 30180), (919, 30156), (929, 30132), (931, 30126), (1013, 29925), (1066, 29790), (1073, 29778), (1079, 29769),

Gene: Murdoc_59 Start: 54023, Stop: 52164, Start Num: 190
Candidate Starts for Murdoc_59:
(Start: 173 @54047 has 3 MA's), (Start: 190 @54023 has 336 MA's), (Start: 222 @53999 has 3 MA's), (Start: 232 @53993 has 2 MA's), (261, 53951), (274, 53930), (336, 53816), (339, 53810), (355, 53780), (390, 53720), (398, 53699), (416, 53645), (429, 53633), (436, 53615), (440, 53603), (487, 53498), (552, 53441), (569, 53405), (573, 53393), (585, 53366), (601, 53339), (611, 53321), (622, 53303), (643, 53264), (648, 53255), (649, 53252), (651, 53249), (796, 52892), (804, 52859), (812, 52838), (848, 52745), (851, 52736), (877, 52673), (900, 52637), (901, 52634), (906, 52619), (939, 52541), (946, 52529), (953, 52508), (976, 52469), (1013, 52379), (1022, 52361), (1024, 52355), (1032, 52340), (1040, 52316), (1042, 52301), (1043, 52298), (1047, 52286), (1059, 52262), (1082, 52214), (1093, 52190),

Gene: Museum_45 Start: 34023, Stop: 32197, Start Num: 228
Candidate Starts for Museum_45:
(Start: 228 @34023 has 960 MA's), (366, 33810), (373, 33795), (399, 33747), (410, 33717), (418, 33696), (424, 33690), (430, 33681), (479, 33564), (490, 33537), (570, 33444), (576, 33429), (590, 33396), (621, 33345), (622, 33342), (659, 33276), (680, 33246), (690, 33216), (709, 33171), (729, 33132), (803, 32952), (821, 32904), (836, 32865), (855, 32799), (871, 32760), (895, 32739), (900, 32718), (906, 32700), (935, 32634), (1009, 32484), (1010, 32481), (1018, 32445), (1032, 32421), (1035, 32412), (1039, 32400), (1066, 32325), (1079, 32304),

Gene: Mutante_60 Start: 54033, Stop: 52174, Start Num: 190
Candidate Starts for Mutante_60:
(Start: 173 @54057 has 3 MA's), (Start: 190 @54033 has 336 MA's), (Start: 222 @54009 has 3 MA's), (Start: 232 @54003 has 2 MA's), (261, 53961), (274, 53940), (336, 53826), (339, 53820), (355, 53790), (390, 53730), (398, 53709), (416, 53655), (429, 53643), (436, 53625), (440, 53613), (487, 53508), (552, 53451), (569, 53415), (573, 53403), (585, 53376), (601, 53349), (611, 53331), (643, 53274), (648, 53265), (649, 53262), (796, 52902), (804, 52869), (812, 52848), (848, 52755), (851, 52746), (877, 52683), (901, 52644), (906, 52629), (939, 52551), (946, 52539), (953, 52518), (976, 52479), (1010, 52410), (1013, 52389), (1022, 52371), (1024, 52365), (1032, 52350), (1040, 52326), (1042, 52311), (1043, 52308), (1047, 52296), (1059, 52272), (1082, 52224), (1093, 52200),

Gene: MyraDee_40 Start: 28864, Stop: 27056, Start Num: 228
Candidate Starts for MyraDee_40:
(Start: 228 @28864 has 960 MA's), (257, 28825), (263, 28813), (342, 28693), (384, 28621), (424, 28531), (430, 28522), (448, 28480), (454, 28462), (465, 28429), (466, 28426), (480, 28402), (490, 28378), (566, 28297), (570, 28285), (580, 28258), (587, 28240), (626, 28174), (654, 28129), (677, 28093), (690, 28060), (701, 28033), (709, 28015), (744, 27949), (767, 27919), (803, 27796), (821, 27748), (855, 27643), (871, 27604), (901, 27535), (919, 27496), (935, 27454), (948, 27424), (1022, 27262), (1066, 27145), (1073, 27133), (1079, 27124),

Gene: Mysterious_56 Start: 54574, Stop: 52745, Start Num: 182
Candidate Starts for Mysterious_56:
(Start: 182 @54574 has 33 MA's), (Start: 217 @54553 has 68 MA's), (Start: 232 @54544 has 2 MA's), (249, 54517), (261, 54502), (398, 54277), (415, 54226), (435, 54199), (440, 54184), (449, 54166), (457, 54154), (472, 54118), (487, 54088), (569, 53995), (573, 53983), (574, 53980), (583, 53959), (585, 53956), (590, 53947), (601, 53929), (635, 53866), (649, 53842), (701, 53737), (748, 53614), (771, 53563), (775, 53551), (776, 53548), (780, 53530), (787, 53512), (797, 53482), (804, 53455), (826, 53404), (848, 53341), (851, 53332), (883, 53248), (901, 53215), (906, 53200), (933, 53140), (939, 53122), (946, 53110), (953, 53089), (955, 53080), (957, 53077), (1013, 52960), (1022, 52942), (1024, 52936), (1040, 52897), (1041, 52885), (1042, 52882), (1047, 52867), (1054, 52855), (1059, 52843), (1078, 52801), (1083, 52792), (1093, 52771), (1100, 52750),

Gene: Mysterium_37 Start: 27509, Stop: 29491, Start Num: 227
Candidate Starts for Mysterium_37:
(Start: 227 @27509 has 33 MA's), (343, 27683), (360, 27713), (386, 27746), (400, 27779), (435, 27854), (447, 27881), (489, 27983), (544, 28082), (626, 28256), (643, 28283), (707, 28412), (768, 28550), (795, 28637), (803, 28670), (815, 28700), (836, 28757), (855, 28823), (898, 28916), (934, 29003), (1013, 29183), (1024, 29207), (1066, 29318), (1114, 29426),

Gene: Myxus_45 Start: 31483, Stop: 29690, Start Num: 228
Candidate Starts for Myxus_45:
(Start: 228 @31483 has 960 MA's), (235, 31474), (263, 31432), (342, 31312), (343, 31309), (370, 31261), (400, 31201), (411, 31171), (415, 31159), (424, 31147), (490, 30994), (570, 30901), (643, 30763), (659, 30733), (733, 30574), (742, 30562), (764, 30535), (798, 30427), (803, 30406), (851, 30271), (855, 30253), (900, 30172), (919, 30130), (949, 30055), (990, 29980), (1009, 29938), (1042, 29836), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: NEHalo_43 Start: 34014, Stop: 32185, Start Num: 228
Candidate Starts for NEHalo_43:
(Start: 228 @34014 has 960 MA's), (366, 33801), (399, 33738), (410, 33708), (418, 33687), (424, 33681), (430, 33672), (479, 33555), (490, 33528), (570, 33435), (576, 33420), (590, 33387), (621, 33336), (622, 33333), (654, 33279), (659, 33267), (680, 33237), (690, 33207), (709, 33162), (729, 33123), (803, 32943), (821, 32895), (840, 32847), (851, 32808), (855, 32790), (871, 32751), (895, 32730), (900, 32709), (905, 32694), (955, 32571), (977, 32538), (1036, 32400), (1041, 32376), (1062, 32328), (1066, 32316), (1079, 32295), (1083, 32289), (1102, 32241), (1109, 32226),

Gene: NHagos_52 Start: 46533, Stop: 44725, Start Num: 225
Candidate Starts for NHagos_52:
(Start: 225 @46533 has 16 MA's), (Start: 232 @46524 has 2 MA's), (259, 46485), (261, 46482), (274, 46461), (278, 46452), (299, 46416), (336, 46356), (362, 46314), (384, 46272), (435, 46164), (440, 46149), (449, 46131), (458, 46116), (487, 46053), (552, 45996), (569, 45960), (573, 45948), (635, 45831), (643, 45819), (649, 45807), (658, 45789), (660, 45783), (775, 45516), (776, 45513), (797, 45447), (804, 45420), (831, 45363), (846, 45312), (848, 45306), (851, 45297), (877, 45234), (901, 45195), (906, 45180), (939, 45102), (946, 45090), (953, 45069), (955, 45060), (976, 45030), (1007, 44973), (1040, 44877), (1043, 44859), (1059, 44823), (1082, 44775), (1093, 44751),

Gene: NaSiaTalie_44 Start: 31357, Stop: 29570, Start Num: 228
Candidate Starts for NaSiaTalie_44:
(Start: 228 @31357 has 960 MA's), (360, 31153), (362, 31150), (366, 31144), (384, 31114), (399, 31081), (400, 31078), (410, 31051), (424, 31024), (448, 30973), (490, 30871), (570, 30778), (590, 30730), (595, 30721), (607, 30706), (643, 30640), (686, 30559), (707, 30511), (778, 30367), (803, 30286), (823, 30235), (835, 30202), (855, 30133), (871, 30094), (895, 30073), (900, 30052), (904, 30040), (990, 29860), (992, 29854), (1009, 29818), (1013, 29794), (1042, 29716), (1066, 29659), (1073, 29647),

Gene: Naca_39 Start: 30726, Stop: 28828, Start Num: 195
Candidate Starts for Naca_39:
(Start: 195 @30726 has 3 MA's), (Start: 228 @30693 has 960 MA's), (304, 30582), (360, 30489), (362, 30486), (399, 30417), (400, 30414), (410, 30387), (424, 30360), (430, 30351), (462, 30267), (473, 30243), (490, 30207), (556, 30147), (570, 30111), (590, 30063), (606, 30042), (607, 30039), (637, 29979), (685, 29901), (703, 29853), (709, 29841), (732, 29793), (761, 29742), (803, 29607), (821, 29559), (830, 29541), (836, 29520), (840, 29511), (848, 29481), (855, 29454), (856, 29451), (900, 29373), (906, 29355), (929, 29307), (949, 29256), (977, 29202), (982, 29193), (992, 29175), (1022, 29097), (1058, 29004), (1066, 28980), (1073, 28968), (1115, 28863),

Gene: Nacho_0062 Start: 54781, Stop: 52922, Start Num: 190
Candidate Starts for Nacho_0062:
(Start: 173 @54805 has 3 MA's), (Start: 190 @54781 has 336 MA's), (Start: 222 @54757 has 3 MA's), (Start: 232 @54751 has 2 MA's), (261, 54709), (274, 54688), (336, 54574), (339, 54568), (355, 54538), (390, 54478), (398, 54457), (416, 54403), (429, 54391), (436, 54373), (440, 54361), (487, 54256), (552, 54199), (569, 54163), (573, 54151), (585, 54124), (601, 54097), (611, 54079), (622, 54061), (643, 54022), (648, 54013), (649, 54010), (761, 53752), (796, 53650), (804, 53617), (812, 53596), (848, 53503), (851, 53494), (877, 53431), (900, 53395), (901, 53392), (906, 53377), (939, 53299), (946, 53287), (953, 53266), (976, 53227), (1013, 53137), (1022, 53119), (1024, 53113), (1032, 53098), (1040, 53074), (1042, 53059), (1043, 53056), (1047, 53044), (1059, 53020), (1082, 52972), (1093, 52948),

Gene: Nagem_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Nagem_39:
(Start: 241 @29017 has 3 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (701, 28123), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: Naiad_36 Start: 28126, Stop: 26342, Start Num: 228
Candidate Starts for Naiad_36:
(Start: 228 @28126 has 960 MA's), (379, 27892), (396, 27862), (398, 27853), (399, 27850), (415, 27805), (424, 27793), (448, 27742), (490, 27640), (498, 27619), (570, 27547), (587, 27502), (590, 27499), (617, 27457), (619, 27451), (626, 27436), (643, 27409), (696, 27304), (701, 27295), (709, 27277), (710, 27274), (729, 27238), (803, 27058), (821, 27010), (855, 26905), (856, 26902), (895, 26845), (900, 26824), (951, 26701), (992, 26626), (1009, 26590), (1013, 26566), (1042, 26488), (1066, 26431), (1073, 26419), (1094, 26380), (1100, 26362),

Gene: Naira_46 Start: 36492, Stop: 34705, Start Num: 228
Candidate Starts for Naira_46:
(Start: 228 @36492 has 960 MA's), (366, 36279), (373, 36264), (399, 36216), (410, 36186), (418, 36165), (424, 36159), (430, 36150), (479, 36033), (490, 36006), (570, 35913), (576, 35898), (621, 35814), (622, 35811), (659, 35745), (680, 35715), (690, 35685), (709, 35640), (729, 35601), (803, 35421), (821, 35373), (836, 35334), (855, 35268), (897, 35196), (900, 35187), (935, 35103), (977, 35016), (1032, 34890), (1036, 34878), (1066, 34794), (1069, 34788),

Gene: Naji_47 Start: 31153, Stop: 29330, Start Num: 228
Candidate Starts for Naji_47:
(Start: 228 @31153 has 960 MA's), (360, 30949), (373, 30925), (384, 30907), (394, 30889), (399, 30874), (400, 30871), (410, 30844), (424, 30817), (448, 30766), (490, 30664), (570, 30571), (590, 30523), (595, 30514), (606, 30502), (607, 30499), (643, 30433), (680, 30373), (729, 30259), (742, 30235), (766, 30196), (803, 30070), (823, 30019), (836, 29983), (855, 29917), (871, 29878), (901, 29809), (919, 29770), (936, 29725), (949, 29695), (982, 29632), (992, 29614), (1013, 29554), (1066, 29419), (1073, 29407), (1079, 29398),

Gene: Nanao_52 Start: 52988, Stop: 51165, Start Num: 182
Candidate Starts for Nanao_52:
(Start: 163 @53006 has 29 MA's), (Start: 182 @52988 has 33 MA's), (Start: 232 @52964 has 2 MA's), (249, 52937), (261, 52922), (274, 52901), (324, 52814), (386, 52709), (402, 52667), (436, 52601),

(449, 52571), (452, 52562), (457, 52559), (458, 52556), (467, 52529), (552, 52436), (560, 52418), (569, 52400), (573, 52388), (580, 52373), (585, 52361), (648, 52250), (649, 52247), (664, 52217), (685, 52181), (775, 51956), (776, 51953), (787, 51917), (796, 51893), (804, 51860), (846, 51752), (848, 51746), (850, 51740), (851, 51737), (900, 51638), (901, 51635), (906, 51620), (939, 51542), (946, 51530), (953, 51509), (955, 51500), (976, 51470), (990, 51446), (1007, 51413), (1013, 51380), (1022, 51362), (1024, 51356), (1040, 51317), (1043, 51299), (1047, 51287), (1059, 51263), (1078, 51221), (1082, 51215), (1093, 51191),

Gene: Nancinator_36 Start: 28114, Stop: 26330, Start Num: 228
Candidate Starts for Nancinator_36:
(Start: 228 @28114 has 960 MA's), (379, 27880), (396, 27850), (398, 27841), (399, 27838), (415, 27793), (424, 27781), (448, 27730), (490, 27628), (498, 27607), (570, 27535), (587, 27490), (590, 27487), (617, 27445), (619, 27439), (626, 27424), (643, 27397), (696, 27292), (701, 27283), (709, 27265), (729, 27226), (767, 27169), (803, 27046), (821, 26998), (855, 26893), (856, 26890), (895, 26833), (900, 26812), (922, 26764), (951, 26689), (990, 26620), (1009, 26578), (1013, 26554), (1042, 26476), (1066, 26419), (1073, 26407), (1079, 26398), (1094, 26368), (1100, 26350),

Gene: Nangang_58 Start: 54780, Stop: 52933, Start Num: 174
Candidate Starts for Nangang_58:
(129, 54846), (174, 54780), (231, 54732), (249, 54705), (283, 54654), (336, 54579), (390, 54486), (436, 54384), (457, 54342), (472, 54306), (487, 54276), (569, 54183), (583, 54147), (590, 54135), (601, 54117), (649, 54030), (701, 53925), (707, 53916), (748, 53802), (776, 53736), (780, 53718), (797, 53670), (804, 53643), (846, 53535), (848, 53529), (851, 53520), (856, 53499), (883, 53436), (901, 53403), (906, 53388), (933, 53328), (939, 53310), (946, 53298), (953, 53277), (955, 53268), (957, 53265), (965, 53253), (1013, 53148), (1024, 53124), (1040, 53085), (1042, 53070), (1043, 53067), (1054, 53043), (1059, 53031), (1060, 53028), (1093, 52959),

Gene: Nathan_61 Start: 54114, Stop: 52255, Start Num: 190
Candidate Starts for Nathan_61:
(Start: 173 @54138 has 3 MA's), (Start: 190 @54114 has 336 MA's), (Start: 222 @54090 has 3 MA's), (Start: 232 @54084 has 2 MA's), (261, 54042), (274, 54021), (336, 53907), (339, 53901), (355, 53871), (390, 53811), (398, 53790), (416, 53736), (429, 53724), (436, 53706), (440, 53694), (487, 53589), (552, 53532), (569, 53496), (573, 53484), (583, 53460), (590, 53448), (601, 53430), (611, 53412), (622, 53394), (643, 53355), (648, 53346), (649, 53343), (651, 53340), (761, 53085), (796, 52983), (804, 52950), (812, 52929), (848, 52836), (851, 52827), (877, 52764), (901, 52725), (906, 52710), (939, 52632), (946, 52620), (953, 52599), (976, 52560), (1010, 52491), (1013, 52470), (1022, 52452), (1024, 52446), (1032, 52431), (1040, 52407), (1042, 52392), (1043, 52389), (1047, 52377), (1059, 52353), (1082, 52305), (1093, 52281),

Gene: Natosaleda_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for Natosaleda_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (729, 27225), (767, 27168), (803, 27045), (821, 26997), (855, 26892), (856, 26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1079, 26397), (1094, 26367), (1100, 26349),

Gene: Nattles_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for Nattles_38:
(Start: 241 @28706 has 3 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004),

(607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: NearlyHeadless_43 Start: 30653, Stop: 28809, Start Num: 228
Candidate Starts for NearlyHeadless_43:
(Start: 228 @30653 has 960 MA's), (263, 30602), (343, 30479), (360, 30449), (384, 30410), (399, 30377), (410, 30347), (418, 30326), (424, 30320), (430, 30311), (448, 30269), (465, 30218), (489, 30170), (490, 30167), (570, 30071), (580, 30044), (587, 30026), (595, 30014), (626, 29960), (643, 29933), (670, 29885), (696, 29828), (709, 29801), (733, 29750), (744, 29735), (798, 29588), (803, 29567), (815, 29537), (821, 29519), (823, 29516), (830, 29501), (836, 29480), (840, 29471), (847, 29444), (851, 29432), (855, 29414), (900, 29333), (904, 29321), (929, 29267), (942, 29231), (955, 29195), (977, 29162), (990, 29141), (992, 29135), (1010, 29096), (1013, 29075), (1022, 29057), (1066, 28940), (1073, 28928),

Gene: Nebs_46 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Nebs_46:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Nebulosus_46 Start: 29739, Stop: 27949, Start Num: 228
Candidate Starts for Nebulosus_46:
(Start: 228 @29739 has 960 MA's), (343, 29565), (399, 29460), (400, 29457), (410, 29430), (424, 29403), (448, 29352), (490, 29250), (570, 29157), (587, 29112), (590, 29109), (595, 29100), (696, 28911), (729, 28845), (768, 28785), (778, 28746), (796, 28695), (803, 28665), (823, 28614), (835, 28581), (847, 28542), (855, 28512), (895, 28452), (900, 28431), (919, 28389), (930, 28362), (935, 28347), (977, 28260), (1009, 28197), (1010, 28194), (1066, 28038), (1073, 28026), (1082, 28014),

Gene: Nebulous_37 Start: 30025, Stop: 28133, Start Num: 301
Candidate Starts for Nebulous_37:
(Start: 301 @30025 has 153 MA's), (320, 29980), (346, 29926), (349, 29920), (360, 29902), (380, 29869), (382, 29866), (402, 29815), (404, 29812), (440, 29734), (442, 29731), (459, 29683), (474, 29641), (552, 29539), (567, 29506), (582, 29464), (585, 29458), (586, 29455), (590, 29443), (607, 29413), (623, 29380), (624, 29377), (636, 29356), (706, 29209), (770, 29053), (855, 28786), (870, 28750), (873, 28744), (879, 28729), (906, 28666), (908, 28657), (1013, 28375), (1014, 28372), (1028, 28336), (1068, 28231),

Gene: Nedarya_43 Start: 29505, Stop: 27715, Start Num: 228
Candidate Starts for Nedarya_43:
(Start: 228 @29505 has 960 MA's), (366, 29292), (399, 29226), (400, 29223), (410, 29196), (424, 29169), (490, 29016), (570, 28923), (587, 28878), (590, 28875), (607, 28851), (709, 28650), (729, 28611), (768, 28551), (778, 28512), (798, 28452), (803, 28431), (823, 28380), (835, 28347), (847, 28308), (855, 28278), (895, 28218), (900, 28197), (931, 28125), (977, 28026), (1009, 27963), (1065, 27807), (1066, 27804), (1073, 27792),

Gene: Neeharika16_45 Start: 29638, Stop: 27797, Start Num: 228
Candidate Starts for Neeharika16_45:
(Start: 228 @29638 has 960 MA's), (360, 29434), (399, 29359), (400, 29356), (410, 29329), (415, 29314), (424, 29302), (448, 29251), (485, 29161), (490, 29149), (570, 29056), (585, 29017), (595,

28999), (607, 28984), (643, 28918), (660, 28885), (663, 28882), (710, 28780), (742, 28720), (778, 28636), (803, 28555), (835, 28471), (836, 28468), (840, 28459), (847, 28432), (855, 28402), (895, 28342), (906, 28303), (1009, 28087), (1010, 28084), (1013, 28063), (1066, 27928), (1073, 27916), (1079, 27907), (1082, 27904), (1115, 27811),

Gene: Neferthena_38 Start: 29229, Stop: 27331, Start Num: 301
Candidate Starts for Neferthena_38:
(Start: 301 @29229 has 153 MA's), (346, 29130), (349, 29124), (380, 29073), (382, 29070), (402, 29019), (404, 29016), (431, 28962), (433, 28956), (440, 28938), (459, 28887), (502, 28785), (552, 28737), (560, 28716), (567, 28704), (582, 28662), (585, 28656), (586, 28653), (590, 28641), (607, 28611), (618, 28590), (623, 28578), (624, 28575), (636, 28554), (706, 28407), (770, 28251), (855, 27984), (870, 27948), (873, 27942), (879, 27927), (906, 27864), (908, 27855), (924, 27810), (1013, 27573), (1014, 27570), (1028, 27534),

Gene: Nehemiah_57 Start: 54574, Stop: 52745, Start Num: 182
Candidate Starts for Nehemiah_57:
(Start: 182 @54574 has 33 MA's), (Start: 217 @54553 has 68 MA's), (Start: 232 @54544 has 2 MA's), (249, 54517), (261, 54502), (398, 54277), (435, 54199), (449, 54166), (457, 54154), (472, 54118), (487, 54088), (569, 53995), (573, 53983), (574, 53980), (583, 53959), (585, 53956), (590, 53947), (601, 53929), (635, 53866), (649, 53842), (701, 53737), (748, 53614), (771, 53563), (775, 53551), (776, 53548), (780, 53530), (787, 53512), (797, 53482), (804, 53455), (826, 53404), (848, 53341), (851, 53332), (883, 53248), (901, 53215), (906, 53200), (933, 53140), (939, 53122), (946, 53110), (953, 53089), (955, 53080), (957, 53077), (1013, 52960), (1022, 52942), (1024, 52936), (1040, 52897), (1041, 52885), (1042, 52882), (1047, 52867), (1054, 52855), (1059, 52843), (1078, 52801), (1083, 52792), (1093, 52771), (1100, 52750),

Gene: Nehme_61 Start: 54563, Stop: 52704, Start Num: 190
Candidate Starts for Nehme_61:
(Start: 173 @54587 has 3 MA's), (Start: 190 @54563 has 336 MA's), (Start: 222 @54539 has 3 MA's), (Start: 232 @54533 has 2 MA's), (261, 54491), (274, 54470), (336, 54356), (339, 54350), (355, 54320), (390, 54260), (398, 54239), (416, 54185), (429, 54173), (436, 54155), (440, 54143), (487, 54038), (552, 53981), (569, 53945), (573, 53933), (583, 53909), (590, 53897), (601, 53879), (611, 53861), (622, 53843), (643, 53804), (648, 53795), (649, 53792), (651, 53789), (796, 53432), (804, 53399), (812, 53378), (848, 53285), (851, 53276), (877, 53213), (900, 53177), (901, 53174), (906, 53159), (939, 53081), (946, 53069), (953, 53048), (976, 53009), (1013, 52919), (1022, 52901), (1024, 52895), (1032, 52880), (1040, 52856), (1042, 52841), (1043, 52838), (1047, 52826), (1059, 52802), (1082, 52754), (1093, 52730),

Gene: Nellie_36 Start: 31889, Stop: 30144, Start Num: 260
Candidate Starts for Nellie_36:
(Start: 241 @31916 has 3 MA's), (Start: 260 @31889 has 6 MA's), (262, 31886), (Start: 277 @31853 has 1 MA's), (280, 31847), (337, 31754), (357, 31721), (374, 31694), (441, 31559), (536, 31430), (539, 31424), (556, 31400), (563, 31385), (573, 31358), (585, 31328), (626, 31247), (630, 31238), (664, 31178), (680, 31157), (735, 31043), (744, 31025), (872, 30647), (880, 30629), (921, 30563), (926, 30548), (1018, 30329), (1036, 30287), (1066, 30203), (1087, 30170),

Gene: Nemo27_45 Start: 31569, Stop: 29743, Start Num: 228
Candidate Starts for Nemo27_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: Neos5_58 Start: 53992, Stop: 52175, Start Num: 230
Candidate Starts for Neos5_58:
(46, 54376), (110, 54175), (Start: 230 @53992 has 52 MA's), (249, 53962), (366, 53782), (411, 53677), (435, 53629), (439, 53617), (452, 53587), (458, 53581), (487, 53518), (489, 53512), (552, 53461), (566, 53434), (569, 53425), (590, 53377), (649, 53272), (694, 53176), (722, 53125), (775, 52981), (787, 52942), (797, 52912), (804, 52885), (810, 52873), (846, 52777), (848, 52771), (851, 52762), (854, 52750), (883, 52678), (900, 52648), (906, 52630), (912, 52621), (939, 52552), (946, 52540), (953, 52519), (992, 52450), (1002, 52435), (1010, 52411), (1013, 52390), (1022, 52372), (1024, 52366), (1038, 52333), (1040, 52327), (1043, 52309), (1047, 52297), (1054, 52285), (1059, 52273), (1078, 52231), (1093, 52201),

Gene: Nerujay_46 Start: 35102, Stop: 33276, Start Num: 228
Candidate Starts for Nerujay_46:
(Start: 228 @35102 has 960 MA's), (366, 34889), (373, 34874), (410, 34796), (414, 34784), (418, 34775), (424, 34769), (430, 34760), (479, 34643), (490, 34616), (570, 34523), (576, 34508), (590, 34475), (621, 34424), (622, 34421), (659, 34355), (690, 34295), (709, 34250), (729, 34211), (803, 34031), (821, 33983), (836, 33944), (855, 33878), (871, 33839), (895, 33818), (900, 33797), (906, 33779), (935, 33713), (1009, 33563), (1010, 33560), (1018, 33524), (1032, 33500), (1035, 33491), (1039, 33479), (1045, 33452), (1066, 33404), (1079, 33383),

Gene: Nesbitt_42 Start: 30153, Stop: 32018, Start Num: 228
Candidate Starts for Nesbitt_42:
(Start: 228 @30153 has 960 MA's), (261, 30201), (Start: 273 @30222 has 1 MA's), (321, 30297), (409, 30456), (410, 30459), (411, 30462), (418, 30480), (430, 30495), (442, 30525), (448, 30537), (492, 30645), (583, 30765), (607, 30807), (626, 30846), (633, 30861), (635, 30864), (637, 30867), (664, 30912), (681, 30933), (686, 30951), (690, 30960), (707, 30999), (719, 31029), (722, 31041), (745, 31104), (784, 31221), (803, 31281), (821, 31329), (836, 31368), (845, 31398), (855, 31434), (879, 31488), (901, 31536), (929, 31599), (973, 31698), (977, 31707), (1006, 31758), (1024, 31818), (1033, 31836), (1058, 31905), (1066, 31929), (1083, 31956),

Gene: Neuvillette_40 Start: 28660, Stop: 26870, Start Num: 214
Candidate Starts for Neuvillette_40:
(168, 28720), (188, 28696), (205, 28675), (Start: 214 @28660 has 2 MA's), (Start: 221 @28651 has 14 MA's), (299, 28528), (328, 28480), (411, 28342), (413, 28336), (439, 28288), (482, 28207), (483, 28201), (493, 28177), (570, 28108), (613, 28027), (626, 28000), (633, 27985), (672, 27922), (697, 27865), (709, 27841), (712, 27835), (729, 27799), (748, 27763), (783, 27691), (798, 27649), (806, 27622), (841, 27526), (848, 27502), (855, 27475), (871, 27436), (902, 27361), (932, 27292), (951, 27244), (958, 27223), (986, 27169), (991, 27154), (1014, 27088), (1038, 27031), (1042, 27010), (1043, 27007), (1049, 26989), (1059, 26974),

Gene: Newman_59 Start: 54059, Stop: 52200, Start Num: 190
Candidate Starts for Newman_59:
(Start: 173 @54083 has 3 MA's), (Start: 190 @54059 has 336 MA's), (Start: 222 @54035 has 3 MA's), (Start: 232 @54029 has 2 MA's), (261, 53987), (274, 53966), (336, 53852), (339, 53846), (355, 53816), (390, 53756), (398, 53735), (416, 53681), (429, 53669), (436, 53651), (440, 53639), (487, 53534), (552, 53477), (569, 53441), (573, 53429), (585, 53402), (590, 53393), (611, 53357), (643, 53300), (648, 53291), (649, 53288), (651, 53285), (796, 52928), (804, 52895), (812, 52874), (848, 52781), (851, 52772), (877, 52709), (900, 52673), (901, 52670), (906, 52655), (939, 52577), (946, 52565), (953, 52544), (976, 52505), (1013, 52415), (1022, 52397), (1024, 52391), (1032, 52376), (1040, 52352), (1042, 52337), (1043, 52334), (1047, 52322), (1059, 52298), (1082, 52250), (1093, 52226),

Gene: Newrala_45 Start: 29638, Stop: 27797, Start Num: 228

Candidate Starts for Newrala_45:
(Start: 228 @29638 has 960 MA's), (360, 29434), (399, 29359), (400, 29356), (410, 29329), (415, 29314), (424, 29302), (448, 29251), (485, 29161), (490, 29149), (570, 29056), (585, 29017), (595, 28999), (607, 28984), (643, 28918), (660, 28885), (663, 28882), (710, 28780), (742, 28720), (778, 28636), (803, 28555), (835, 28471), (836, 28468), (840, 28459), (847, 28432), (855, 28402), (895, 28342), (906, 28303), (1009, 28087), (1010, 28084), (1013, 28063), (1066, 27928), (1073, 27916), (1079, 27907), (1082, 27904), (1115, 27811),

Gene: Nhonho_45 Start: 35071, Stop: 33245, Start Num: 228
Candidate Starts for Nhonho_45:
(Start: 228 @35071 has 960 MA's), (366, 34858), (399, 34795), (410, 34765), (418, 34744), (424, 34738), (430, 34729), (479, 34612), (490, 34585), (570, 34492), (576, 34477), (590, 34444), (621, 34393), (622, 34390), (659, 34324), (680, 34294), (690, 34264), (709, 34219), (729, 34180), (803, 34000), (821, 33952), (836, 33913), (855, 33847), (871, 33808), (895, 33787), (900, 33766), (906, 33748), (935, 33682), (1009, 33532), (1010, 33529), (1018, 33493), (1032, 33469), (1035, 33460), (1039, 33448), (1045, 33421), (1066, 33373), (1079, 33352),

Gene: NiaNia_63 Start: 54056, Stop: 52197, Start Num: 190
Candidate Starts for NiaNia_63:
(Start: 173 @54080 has 3 MA's), (Start: 190 @54056 has 336 MA's), (Start: 222 @54032 has 3 MA's), (Start: 232 @54026 has 2 MA's), (261, 53984), (274, 53963), (336, 53849), (339, 53843), (355, 53813), (390, 53753), (398, 53732), (416, 53678), (429, 53666), (436, 53648), (440, 53636), (487, 53531), (552, 53474), (569, 53438), (573, 53426), (585, 53399), (601, 53372), (611, 53354), (622, 53336), (643, 53297), (648, 53288), (649, 53285), (796, 52925), (804, 52892), (812, 52871), (848, 52778), (851, 52769), (877, 52706), (900, 52670), (901, 52667), (906, 52652), (939, 52574), (946, 52562), (953, 52541), (976, 52502), (1013, 52412), (1022, 52394), (1024, 52388), (1032, 52373), (1040, 52349), (1042, 52334), (1043, 52331), (1047, 52319), (1059, 52295), (1082, 52247), (1093, 52223),

Gene: NickSell_39 Start: 28939, Stop: 27074, Start Num: 301
Candidate Starts for NickSell_39:
(13, 29698), (58, 29395), (Start: 215 @29065 has 12 MA's), (240, 29029), (244, 29023), (Start: 301 @28939 has 153 MA's), (Start: 305 @28930 has 5 MA's), (353, 28825), (360, 28816), (378, 28786), (380, 28783), (435, 28663), (439, 28651), (442, 28645), (483, 28540), (494, 28513), (582, 28372), (585, 28366), (586, 28363), (590, 28351), (606, 28324), (607, 28321), (614, 28306), (618, 28300), (621, 28294), (638, 28261), (726, 28072), (847, 27757), (850, 27748), (851, 27745), (855, 27727), (873, 27685), (877, 27679), (879, 27670), (888, 27655), (908, 27598), (974, 27439), (989, 27409), (992, 27400), (1010, 27340), (1013, 27316), (1028, 27277), (1040, 27244), (1044, 27232), (1068, 27172),

Gene: Nicky22_43 Start: 30033, Stop: 31907, Start Num: 217
Candidate Starts for Nicky22_43:
(Start: 215 @30030 has 12 MA's), (Start: 217 @30033 has 68 MA's), (Start: 273 @30102 has 1 MA's), (Start: 285 @30123 has 1 MA's), (317, 30174), (430, 30369), (448, 30411), (626, 30705), (696, 30840), (741, 30939), (784, 31062), (803, 31122), (806, 31128), (823, 31173), (833, 31203), (845, 31239), (855, 31275), (898, 31368), (936, 31461), (973, 31539), (1009, 31611), (1018, 31650), (1038, 31692), (1041, 31710), (1058, 31746), (1066, 31770), (1079, 31791),

Gene: Nicole21_61 Start: 54312, Stop: 52453, Start Num: 190
Candidate Starts for Nicole21_61:
(Start: 173 @54336 has 3 MA's), (Start: 190 @54312 has 336 MA's), (Start: 222 @54288 has 3 MA's), (Start: 232 @54282 has 2 MA's), (261, 54240), (274, 54219), (336, 54105), (339, 54099), (355, 54069), (390, 54009), (398, 53988), (416, 53934), (429, 53922), (436, 53904), (440, 53892), (487, 53787), (552, 53730), (569, 53694), (573, 53682), (583, 53658), (590, 53646), (601, 53628), (611, 53610),

(622, 53592), (643, 53553), (648, 53544), (649, 53541), (651, 53538), (796, 53181), (804, 53148), (812, 53127), (848, 53034), (851, 53025), (877, 52962), (900, 52926), (901, 52923), (906, 52908), (939, 52830), (946, 52818), (953, 52797), (976, 52758), (1013, 52668), (1022, 52650), (1024, 52644), (1032, 52629), (1040, 52605), (1042, 52590), (1043, 52587), (1047, 52575), (1059, 52551), (1082, 52503), (1093, 52479),

Gene: NicoleTera_45 Start: 32018, Stop: 30231, Start Num: 228
Candidate Starts for NicoleTera_45:
(Start: 228 @32018 has 960 MA's), (362, 31811), (375, 31790), (384, 31775), (398, 31745), (399, 31742), (410, 31712), (424, 31685), (435, 31664), (448, 31634), (490, 31532), (570, 31439), (590, 31391), (595, 31382), (643, 31301), (686, 31220), (707, 31172), (742, 31103), (803, 30947), (823, 30896), (835, 30863), (836, 30860), (855, 30794), (871, 30755), (895, 30734), (924, 30659), (929, 30647), (949, 30596), (958, 30569), (982, 30533), (992, 30515), (1009, 30479), (1013, 30455), (1038, 30398), (1066, 30320), (1073, 30308), (1079, 30299),

Gene: Nigel_54 Start: 53588, Stop: 51732, Start Num: 159
Candidate Starts for Nigel_54:
(Start: 159 @53588 has 2 MA's), (Start: 184 @53561 has 3 MA's), (Start: 232 @53534 has 2 MA's), (249, 53507), (261, 53492), (307, 53420), (309, 53414), (336, 53366), (339, 53360), (345, 53348), (355, 53330), (362, 53321), (390, 53270), (391, 53267), (436, 53168), (449, 53138), (452, 53129), (457, 53126), (467, 53096), (552, 53003), (560, 52985), (569, 52967), (573, 52955), (585, 52928), (648, 52817), (649, 52814), (658, 52796), (664, 52784), (685, 52748), (686, 52742), (692, 52724), (722, 52667), (761, 52562), (775, 52523), (776, 52520), (787, 52484), (804, 52427), (846, 52319), (848, 52313), (851, 52304), (897, 52214), (900, 52205), (901, 52202), (906, 52187), (939, 52109), (946, 52097), (953, 52076), (955, 52067), (992, 52007), (1007, 51980), (1013, 51947), (1022, 51929), (1024, 51923), (1040, 51884), (1042, 51869), (1043, 51866), (1047, 51854), (1059, 51830), (1078, 51788), (1082, 51782), (1093, 51758),

Gene: Niobe_39 Start: 30355, Stop: 32220, Start Num: 228
Candidate Starts for Niobe_39:
(Start: 228 @30355 has 960 MA's), (261, 30403), (383, 30586), (386, 30592), (410, 30652), (418, 30673), (452, 30742), (576, 30958), (622, 31048), (626, 31057), (633, 31072), (660, 31117), (707, 31210), (768, 31348), (803, 31468), (815, 31498), (836, 31555), (853, 31612), (855, 31621), (867, 31645), (898, 31714), (929, 31786), (932, 31795), (977, 31894), (1009, 31957), (1066, 32116), (1071, 32125),

Gene: Nirvana_71 Start: 48873, Stop: 46888, Start Num: 276
Candidate Starts for Nirvana_71:
(254, 48915), (Start: 276 @48873 has 2 MA's), (Start: 294 @48855 has 13 MA's), (352, 48759), (397, 48687), (409, 48651), (430, 48585), (450, 48537), (482, 48459), (483, 48453), (525, 48306), (535, 48270), (540, 48255), (554, 48228), (562, 48207), (566, 48201), (576, 48174), (645, 48039), (672, 47988), (762, 47754), (767, 47745), (771, 47727), (780, 47694), (793, 47664), (826, 47559), (848, 47493), (856, 47463), (861, 47442), (864, 47436), (939, 47274), (987, 47202), (994, 47181), (1024, 47085), (1030, 47073), (1034, 47064), (1039, 47052), (1042, 47034), (1053, 47010), (1064, 46986),

Gene: Nitro_40 Start: 30212, Stop: 32077, Start Num: 228
Candidate Starts for Nitro_40:
(Start: 228 @30212 has 960 MA's), (261, 30260), (410, 30509), (452, 30599), (572, 30806), (576, 30815), (621, 30902), (626, 30914), (633, 30929), (686, 31019), (733, 31124), (768, 31205), (803, 31325), (815, 31355), (836, 31412), (855, 31478), (929, 31643), (1009, 31814), (1013, 31838), (1022, 31856), (1066, 31973), (1071, 31982),

Gene: Niza_47 Start: 35869, Stop: 34082, Start Num: 228

Candidate Starts for Niza_47:
(Start: 228 @35869 has 960 MA's), (366, 35656), (373, 35641), (399, 35593), (410, 35563), (418, 35542), (424, 35536), (430, 35527), (479, 35410), (490, 35383), (570, 35290), (576, 35275), (590, 35242), (621, 35191), (622, 35188), (659, 35122), (680, 35092), (690, 35062), (709, 35017), (729, 34978), (803, 34798), (821, 34750), (836, 34711), (855, 34645), (897, 34573), (900, 34564), (935, 34480), (977, 34393), (1032, 34267), (1036, 34255), (1058, 34195), (1066, 34171), (1069, 34165),

Gene: Noella_44 Start: 31598, Stop: 29760, Start Num: 228
Candidate Starts for Noella_44:
(Start: 228 @31598 has 960 MA's), (263, 31547), (360, 31394), (399, 31322), (410, 31292), (424, 31265), (430, 31256), (490, 31112), (570, 31016), (592, 30968), (626, 30908), (681, 30821), (696, 30776), (707, 30755), (744, 30683), (767, 30641), (778, 30599), (803, 30518), (821, 30470), (836, 30431), (847, 30395), (855, 30365), (869, 30335), (901, 30254), (919, 30215), (929, 30191), (935, 30173), (936, 30170), (992, 30044), (1013, 29984), (1045, 29897), (1066, 29849), (1073, 29837), (1079, 29828),

Gene: Noelle_45 Start: 31832, Stop: 30003, Start Num: 228
Candidate Starts for Noelle_45:
(Start: 228 @31832 has 960 MA's), (Start: 255 @31796 has 8 MA's), (360, 31628), (384, 31589), (394, 31571), (396, 31568), (424, 31499), (430, 31490), (480, 31370), (490, 31346), (570, 31253), (592, 31205), (626, 31145), (654, 31100), (657, 31094), (696, 31013), (707, 30992), (729, 30947), (798, 30782), (803, 30761), (840, 30665), (847, 30638), (848, 30635), (855, 30608), (871, 30569), (901, 30497), (906, 30482), (919, 30458), (926, 30440), (929, 30434), (931, 30428), (1013, 30227), (1066, 30092), (1073, 30080), (1079, 30071),

Gene: Norbert_43 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for Norbert_43:
(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836), (1079, 29827),

Gene: NorthStar_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for NorthStar_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Northrop_45 Start: 31566, Stop: 29740, Start Num: 228
Candidate Starts for Northrop_45:
(Start: 228 @31566 has 960 MA's), (Start: 241 @31545 has 3 MA's), (263, 31515), (278, 31485), (384, 31323), (394, 31305), (424, 31233), (430, 31224), (480, 31104), (490, 31080), (570, 30987), (592, 30939), (607, 30918), (626, 30879), (696, 30747), (707, 30726), (729, 30681), (733, 30669), (798, 30516), (803, 30495), (847, 30372), (855, 30342), (871, 30303), (900, 30237), (901, 30234), (906, 30219), (919, 30195), (929, 30171), (1013, 29964), (1066, 29829), (1073, 29817), (1079, 29808),

Gene: Norz_45 Start: 34915, Stop: 33089, Start Num: 228
Candidate Starts for Norz_45:

(Start: 228 @34915 has 960 MA's), (366, 34702), (373, 34687), (399, 34639), (410, 34609), (418, 34588), (424, 34582), (430, 34573), (479, 34456), (490, 34429), (570, 34336), (576, 34321), (621, 34237), (622, 34234), (659, 34168), (680, 34138), (690, 34108), (709, 34063), (729, 34024), (803, 33844), (815, 33814), (821, 33796), (836, 33757), (855, 33691), (900, 33610), (901, 33607), (935, 33526), (1009, 33376), (1010, 33373), (1018, 33337), (1032, 33313), (1035, 33304), (1039, 33292), (1066, 33217), (1079, 33196),

Gene: NotAPhaseMom_45 Start: 31574, Stop: 29748, Start Num: 228
Candidate Starts for NotAPhaseMom_45:
(Start: 228 @31574 has 960 MA's), (Start: 241 @31553 has 3 MA's), (263, 31523), (278, 31493), (384, 31331), (394, 31313), (424, 31241), (430, 31232), (480, 31112), (490, 31088), (570, 30995), (592, 30947), (607, 30926), (626, 30887), (696, 30755), (707, 30734), (729, 30689), (733, 30677), (798, 30524), (803, 30503), (847, 30380), (855, 30350), (871, 30311), (900, 30245), (901, 30242), (906, 30227), (919, 30203), (929, 30179), (1013, 29972), (1066, 29837), (1073, 29825), (1079, 29816),

Gene: NothingSpecial_43 Start: 32022, Stop: 30235, Start Num: 228
Candidate Starts for NothingSpecial_43:
(Start: 228 @32022 has 960 MA's), (362, 31815), (366, 31809), (384, 31779), (399, 31746), (400, 31743), (410, 31716), (424, 31689), (430, 31680), (490, 31536), (570, 31443), (590, 31395), (595, 31386), (607, 31371), (643, 31305), (686, 31224), (707, 31176), (803, 30951), (823, 30900), (835, 30867), (855, 30798), (871, 30759), (895, 30738), (900, 30717), (992, 30519), (1009, 30483), (1013, 30459), (1042, 30381), (1066, 30324), (1073, 30312), (1079, 30303),

Gene: Nova1_63 Start: 54366, Stop: 52507, Start Num: 190
Candidate Starts for Nova1_63:
(Start: 173 @54390 has 3 MA's), (Start: 190 @54366 has 336 MA's), (Start: 222 @54342 has 3 MA's), (Start: 232 @54336 has 2 MA's), (261, 54294), (274, 54273), (336, 54159), (339, 54153), (355, 54123), (390, 54063), (398, 54042), (416, 53988), (429, 53976), (436, 53958), (440, 53946), (487, 53841), (552, 53784), (569, 53748), (573, 53736), (585, 53709), (611, 53664), (643, 53607), (648, 53598), (649, 53595), (796, 53235), (804, 53202), (812, 53181), (848, 53088), (851, 53079), (877, 53016), (900, 52980), (901, 52977), (906, 52962), (939, 52884), (946, 52872), (953, 52851), (976, 52812), (1013, 52722), (1022, 52704), (1024, 52698), (1032, 52683), (1040, 52659), (1042, 52644), (1043, 52641), (1047, 52629), (1059, 52605), (1082, 52557), (1093, 52533),

Gene: Noxious_46 Start: 35549, Stop: 33723, Start Num: 228
Candidate Starts for Noxious_46:
(Start: 228 @35549 has 960 MA's), (366, 35336), (373, 35321), (410, 35243), (418, 35222), (424, 35216), (430, 35207), (479, 35090), (490, 35063), (570, 34970), (576, 34955), (621, 34871), (622, 34868), (659, 34802), (690, 34742), (709, 34697), (729, 34658), (803, 34478), (821, 34430), (836, 34391), (855, 34325), (871, 34286), (895, 34265), (900, 34244), (906, 34226), (935, 34160), (1007, 34019), (1009, 34010), (1010, 34007), (1018, 33971), (1032, 33947), (1035, 33938), (1039, 33926), (1066, 33851), (1079, 33830),

Gene: Nozo_58 Start: 54443, Stop: 52626, Start Num: 230
Candidate Starts for Nozo_58:
(110, 54626), (Start: 230 @54443 has 52 MA's), (249, 54413), (366, 54233), (411, 54128), (435, 54080), (439, 54068), (452, 54038), (458, 54032), (487, 53969), (489, 53963), (552, 53912), (569, 53876), (590, 53828), (649, 53723), (694, 53627), (722, 53576), (775, 53432), (787, 53393), (797, 53363), (804, 53336), (810, 53324), (846, 53228), (848, 53222), (851, 53213), (854, 53201), (883, 53129), (900, 53099), (906, 53081), (912, 53072), (939, 53003), (946, 52991), (953, 52970), (992, 52901), (1002, 52886), (1010, 52862), (1013, 52841), (1022, 52823), (1024, 52817), (1038, 52784), (1040, 52778), (1043, 52760), (1047, 52748), (1054, 52736), (1059, 52724), (1078, 52682), (1093, 52652),

Gene: Nucci_37 Start: 28513, Stop: 26612, Start Num: 296
Candidate Starts for Nucci_37:
(Start: 296 @28513 has 13 MA's), (360, 28390), (369, 28375), (378, 28360), (396, 28327), (398, 28318), (402, 28303), (415, 28267), (429, 28252), (439, 28225), (442, 28219), (460, 28168), (474, 28129), (502, 28069), (582, 27943), (586, 27934), (590, 27922), (607, 27892), (618, 27871), (636, 27835), (706, 27688), (726, 27643), (770, 27532), (833, 27337), (847, 27295), (855, 27265), (873, 27223), (889, 27193), (897, 27172), (908, 27136), (1010, 26878), (1013, 26854), (1025, 26821), (1028, 26815), (1068, 26710),

Gene: Numberten_60 Start: 54256, Stop: 52397, Start Num: 190
Candidate Starts for Numberten_60:
(Start: 173 @54280 has 3 MA's), (Start: 190 @54256 has 336 MA's), (Start: 222 @54232 has 3 MA's), (Start: 232 @54226 has 2 MA's), (261, 54184), (274, 54163), (336, 54049), (339, 54043), (355, 54013), (390, 53953), (398, 53932), (416, 53878), (429, 53866), (436, 53848), (440, 53836), (487, 53731), (552, 53674), (569, 53638), (573, 53626), (583, 53602), (590, 53590), (601, 53572), (611, 53554), (622, 53536), (643, 53497), (648, 53488), (649, 53485), (651, 53482), (796, 53125), (804, 53092), (812, 53071), (848, 52978), (851, 52969), (877, 52906), (900, 52870), (901, 52867), (906, 52852), (939, 52774), (946, 52762), (953, 52741), (976, 52702), (1013, 52612), (1022, 52594), (1024, 52588), (1032, 52573), (1040, 52549), (1042, 52534), (1043, 52531), (1047, 52519), (1059, 52495), (1082, 52447), (1093, 52423),

Gene: Nyala_59 Start: 54031, Stop: 52172, Start Num: 190
Candidate Starts for Nyala_59:
(Start: 173 @54055 has 3 MA's), (Start: 190 @54031 has 336 MA's), (Start: 222 @54007 has 3 MA's), (Start: 232 @54001 has 2 MA's), (261, 53959), (274, 53938), (336, 53824), (339, 53818), (355, 53788), (390, 53728), (398, 53707), (416, 53653), (429, 53641), (436, 53623), (440, 53611), (487, 53506), (552, 53449), (569, 53413), (573, 53401), (585, 53374), (601, 53347), (611, 53329), (622, 53311), (643, 53272), (648, 53263), (649, 53260), (796, 52900), (804, 52867), (812, 52846), (848, 52753), (851, 52744), (877, 52681), (900, 52645), (901, 52642), (906, 52627), (939, 52549), (946, 52537), (953, 52516), (976, 52477), (1013, 52387), (1022, 52369), (1024, 52363), (1032, 52348), (1040, 52324), (1042, 52309), (1043, 52306), (1047, 52294), (1059, 52270), (1082, 52222), (1093, 52198),

Gene: Nyxis_45 Start: 31460, Stop: 29634, Start Num: 228
Candidate Starts for Nyxis_45:
(Start: 228 @31460 has 960 MA's), (Start: 241 @31439 has 3 MA's), (263, 31409), (278, 31379), (384, 31217), (394, 31199), (424, 31127), (430, 31118), (480, 30998), (490, 30974), (570, 30881), (592, 30833), (607, 30812), (626, 30773), (696, 30641), (707, 30620), (729, 30575), (733, 30563), (798, 30410), (803, 30389), (847, 30266), (855, 30236), (871, 30197), (900, 30131), (901, 30128), (906, 30113), (919, 30089), (929, 30065), (1013, 29858), (1066, 29723), (1073, 29711), (1079, 29702),

Gene: OKCentral2016_43 Start: 30827, Stop: 28992, Start Num: 228
Candidate Starts for OKCentral2016_43:
(Start: 228 @30827 has 960 MA's), (263, 30776), (307, 30710), (360, 30623), (373, 30599), (396, 30563), (399, 30551), (424, 30494), (430, 30485), (462, 30401), (480, 30365), (485, 30353), (489, 30344), (490, 30341), (570, 30248), (592, 30200), (626, 30140), (643, 30113), (657, 30089), (694, 30011), (696, 30008), (707, 29987), (709, 29981), (744, 29915), (767, 29873), (803, 29750), (821, 29702), (847, 29627), (855, 29597), (871, 29558), (901, 29486), (919, 29447), (929, 29423), (931, 29417), (935, 29405), (985, 29297), (1013, 29216), (1024, 29192), (1045, 29129), (1066, 29081), (1073, 29069), (1079, 29060),

Gene: OKaNui_45 Start: 31620, Stop: 29794, Start Num: 228
Candidate Starts for OKaNui_45:

(Start: 228 @31620 has 960 MA's), (Start: 241 @31599 has 3 MA's), (263, 31569), (278, 31539), (384, 31377), (394, 31359), (424, 31287), (430, 31278), (490, 31134), (570, 31041), (592, 30993), (607, 30972), (626, 30933), (696, 30801), (707, 30780), (729, 30735), (733, 30723), (798, 30570), (803, 30549), (847, 30426), (855, 30396), (871, 30357), (900, 30291), (901, 30288), (906, 30273), (919, 30249), (929, 30225), (1013, 30018), (1066, 29883), (1073, 29871), (1079, 29862),

Gene: OSmaximus_62 Start: 54777, Stop: 52918, Start Num: 190
Candidate Starts for OSmaximus_62:
(Start: 173 @54801 has 3 MA's), (Start: 190 @54777 has 336 MA's), (Start: 222 @54753 has 3 MA's), (Start: 232 @54747 has 2 MA's), (261, 54705), (274, 54684), (336, 54570), (339, 54564), (355, 54534), (390, 54474), (398, 54453), (416, 54399), (429, 54387), (436, 54369), (440, 54357), (487, 54252), (552, 54195), (569, 54159), (573, 54147), (583, 54123), (590, 54111), (601, 54093), (611, 54075), (622, 54057), (643, 54018), (648, 54009), (649, 54006), (651, 54003), (796, 53646), (804, 53613), (812, 53592), (848, 53499), (851, 53490), (877, 53427), (900, 53391), (901, 53388), (906, 53373), (939, 53295), (946, 53283), (953, 53262), (976, 53223), (1013, 53133), (1022, 53115), (1024, 53109), (1032, 53094), (1040, 53070), (1042, 53055), (1043, 53052), (1047, 53040), (1059, 53016), (1082, 52968), (1093, 52944),

Gene: Oatly_11 Start: 8829, Stop: 6580, Start Num: 161
Candidate Starts for Oatly_11:
(Start: 161 @8829 has 21 MA's), (291, 8652), (316, 8607), (388, 8475), (395, 8460), (442, 8328), (451, 8307), (508, 8160), (511, 8139), (517, 8109), (556, 7983), (571, 7944), (645, 7839), (692, 7737), (714, 7686), (723, 7662), (724, 7659), (753, 7578), (778, 7503), (841, 7308), (844, 7296), (857, 7248), (862, 7215), (877, 7170), (879, 7161), (910, 7071), (923, 7047), (970, 6936), (1019, 6798), (1035, 6753), (1062, 6678), (1064, 6675), (1066, 6666), (1073, 6654), (1090, 6615),

Gene: Oats_38 Start: 28632, Stop: 26767, Start Num: 301
Candidate Starts for Oats_38:
(Start: 241 @28719 has 3 MA's), (Start: 301 @28632 has 153 MA's), (Start: 305 @28623 has 5 MA's), (353, 28518), (360, 28509), (378, 28479), (380, 28476), (435, 28356), (439, 28344), (442, 28338), (483, 28233), (494, 28206), (582, 28065), (585, 28059), (586, 28056), (590, 28044), (606, 28017), (607, 28014), (614, 27999), (618, 27993), (621, 27987), (638, 27954), (726, 27765), (847, 27450), (850, 27441), (851, 27438), (855, 27420), (873, 27378), (877, 27372), (879, 27363), (888, 27348), (908, 27291), (974, 27132), (989, 27102), (992, 27093), (1010, 27033), (1013, 27009), (1028, 26970), (1040, 26937), (1044, 26925), (1068, 26865),

Gene: Obama12_46 Start: 31994, Stop: 30168, Start Num: 228
Candidate Starts for Obama12_46:
(Start: 228 @31994 has 960 MA's), (261, 31946), (360, 31790), (399, 31718), (424, 31661), (430, 31652), (480, 31532), (490, 31508), (570, 31415), (592, 31367), (607, 31346), (626, 31307), (654, 31262), (696, 31175), (701, 31166), (707, 31154), (729, 31109), (733, 31097), (798, 30944), (803, 30923), (847, 30800), (855, 30770), (871, 30731), (900, 30665), (901, 30662), (919, 30623), (929, 30599), (1013, 30392), (1066, 30257), (1073, 30245), (1079, 30236),

Gene: ObiToo_46 Start: 30468, Stop: 32333, Start Num: 228
Candidate Starts for ObiToo_46:
(105, 30285), (Start: 162 @30390 has 1 MA's), (Start: 228 @30468 has 960 MA's), (261, 30516), (366, 30681), (383, 30699), (410, 30765), (418, 30786), (572, 31062), (576, 31071), (626, 31170), (633, 31185), (686, 31275), (707, 31323), (733, 31380), (768, 31461), (803, 31581), (836, 31668), (853, 31725), (855, 31734), (977, 32007), (1066, 32229),

Gene: Obutu_59 Start: 54042, Stop: 52225, Start Num: 230
Candidate Starts for Obutu_59:

(110, 54225), (Start: 230 @54042 has 52 MA's), (249, 54012), (366, 53832), (435, 53679), (439, 53667), (452, 53637), (458, 53631), (487, 53568), (489, 53562), (552, 53511), (569, 53475), (590, 53427), (649, 53322), (694, 53226), (722, 53175), (775, 53031), (787, 52992), (797, 52962), (804, 52935), (810, 52923), (846, 52827), (848, 52821), (851, 52812), (854, 52800), (883, 52728), (900, 52698), (906, 52680), (912, 52671), (939, 52602), (946, 52590), (953, 52569), (992, 52500), (1002, 52485), (1010, 52461), (1024, 52416), (1040, 52377), (1043, 52359), (1047, 52347), (1054, 52335), (1059, 52323), (1078, 52281), (1093, 52251),

Gene: Odin_44 Start: 30188, Stop: 28356, Start Num: 228
Candidate Starts for Odin_44:
(Start: 228 @30188 has 960 MA's), (360, 29984), (370, 29966), (400, 29906), (408, 29885), (410, 29879), (414, 29867), (424, 29852), (436, 29828), (490, 29699), (556, 29639), (565, 29621), (570, 29606), (595, 29549), (643, 29468), (670, 29420), (707, 29339), (803, 29114), (836, 29027), (847, 28991), (855, 28961), (871, 28922), (895, 28901), (900, 28880), (906, 28862), (949, 28763), (958, 28736), (982, 28700), (992, 28682), (1009, 28646), (1013, 28622), (1066, 28487), (1073, 28475), (1079, 28466), (1082, 28463), (1100, 28418), (1112, 28388),

Gene: Ohfah_46 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Ohfah_46:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Ohno789_45 Start: 35178, Stop: 33352, Start Num: 228
Candidate Starts for Ohno789_45:
(Start: 228 @35178 has 960 MA's), (366, 34965), (399, 34902), (410, 34872), (418, 34851), (424, 34845), (430, 34836), (479, 34719), (490, 34692), (570, 34599), (576, 34584), (621, 34500), (622, 34497), (659, 34431), (690, 34371), (709, 34326), (729, 34287), (803, 34107), (821, 34059), (836, 34020), (855, 33954), (871, 33915), (895, 33894), (900, 33873), (906, 33855), (935, 33789), (1009, 33639), (1010, 33636), (1018, 33600), (1032, 33576), (1035, 33567), (1039, 33555), (1066, 33480), (1079, 33459),

Gene: Olak_59 Start: 54034, Stop: 52175, Start Num: 190
Candidate Starts for Olak_59:
(Start: 173 @54058 has 3 MA's), (Start: 190 @54034 has 336 MA's), (Start: 222 @54010 has 3 MA's), (Start: 232 @54004 has 2 MA's), (261, 53962), (274, 53941), (336, 53827), (339, 53821), (355, 53791), (390, 53731), (398, 53710), (416, 53656), (429, 53644), (436, 53626), (440, 53614), (487, 53509), (552, 53452), (569, 53416), (573, 53404), (585, 53377), (601, 53350), (611, 53332), (622, 53314), (643, 53275), (648, 53266), (649, 53263), (761, 53005), (796, 52903), (804, 52870), (812, 52849), (848, 52756), (851, 52747), (877, 52684), (900, 52648), (901, 52645), (906, 52630), (939, 52552), (946, 52540), (953, 52519), (976, 52480), (1013, 52390), (1022, 52372), (1024, 52366), (1032, 52351), (1040, 52327), (1042, 52312), (1043, 52309), (1047, 52297), (1059, 52273), (1082, 52225), (1093, 52201),

Gene: OlanP_47 Start: 31923, Stop: 30109, Start Num: 228
Candidate Starts for OlanP_47:
(Start: 228 @31923 has 960 MA's), (257, 31884), (263, 31872), (360, 31719), (369, 31704), (399, 31647), (424, 31590), (430, 31581), (448, 31539), (465, 31488), (490, 31437), (570, 31344), (590, 31296), (607, 31272), (626, 31233), (643, 31206), (659, 31176), (703, 31083), (709, 31071), (732, 31023), (733, 31020), (742, 31008), (803, 30852), (823, 30801), (835, 30768), (836, 30765), (855, 30699), (871, 30660), (901, 30588), (919, 30549), (929, 30525), (935, 30507), (949, 30474), (992,

30393), (1013, 30333), (1022, 30315), (1042, 30255), (1045, 30246), (1066, 30198), (1073, 30186), (1079, 30177),

Gene: OldNelly_39 Start: 28936, Stop: 27071, Start Num: 301
Candidate Starts for OldNelly_39:
(Start: 241 @29023 has 3 MA's), (Start: 301 @28936 has 153 MA's), (Start: 305 @28927 has 5 MA's), (353, 28822), (360, 28813), (378, 28783), (380, 28780), (435, 28660), (439, 28648), (442, 28642), (483, 28537), (494, 28510), (582, 28369), (585, 28363), (586, 28360), (590, 28348), (606, 28321), (607, 28318), (614, 28303), (618, 28297), (621, 28291), (638, 28258), (701, 28129), (726, 28069), (847, 27754), (850, 27745), (851, 27742), (855, 27724), (873, 27682), (877, 27676), (879, 27667), (888, 27652), (908, 27595), (974, 27436), (989, 27406), (992, 27397), (1010, 27337), (1013, 27313), (1028, 27274), (1040, 27241), (1044, 27229), (1068, 27169),

Gene: Oline_61 Start: 54135, Stop: 52276, Start Num: 190
Candidate Starts for Oline_61:
(Start: 173 @54159 has 3 MA's), (Start: 190 @54135 has 336 MA's), (Start: 222 @54111 has 3 MA's), (Start: 232 @54105 has 2 MA's), (261, 54063), (274, 54042), (336, 53928), (339, 53922), (355, 53892), (390, 53832), (398, 53811), (416, 53757), (429, 53745), (436, 53727), (440, 53715), (487, 53610), (552, 53553), (569, 53517), (573, 53505), (583, 53481), (590, 53469), (601, 53451), (611, 53433), (622, 53415), (643, 53376), (648, 53367), (649, 53364), (651, 53361), (796, 53004), (804, 52971), (812, 52950), (848, 52857), (851, 52848), (877, 52785), (900, 52749), (901, 52746), (906, 52731), (939, 52653), (946, 52641), (953, 52620), (976, 52581), (1013, 52491), (1022, 52473), (1024, 52467), (1032, 52452), (1040, 52428), (1042, 52413), (1043, 52410), (1047, 52398), (1059, 52374), (1082, 52326), (1093, 52302), (1098, 52287),

Gene: Olive_60 Start: 54247, Stop: 52388, Start Num: 190
Candidate Starts for Olive_60:
(Start: 173 @54271 has 3 MA's), (Start: 190 @54247 has 336 MA's), (Start: 222 @54223 has 3 MA's), (Start: 232 @54217 has 2 MA's), (261, 54175), (274, 54154), (336, 54040), (339, 54034), (355, 54004), (390, 53944), (398, 53923), (416, 53869), (429, 53857), (436, 53839), (440, 53827), (487, 53722), (552, 53665), (569, 53629), (573, 53617), (583, 53593), (590, 53581), (601, 53563), (611, 53545), (622, 53527), (643, 53488), (648, 53479), (649, 53476), (651, 53473), (796, 53116), (804, 53083), (812, 53062), (848, 52969), (851, 52960), (877, 52897), (900, 52861), (901, 52858), (906, 52843), (939, 52765), (946, 52753), (953, 52732), (976, 52693), (1013, 52603), (1022, 52585), (1024, 52579), (1032, 52564), (1040, 52540), (1042, 52525), (1043, 52522), (1047, 52510), (1059, 52486), (1082, 52438), (1093, 52414),

Gene: OliverWalter_59 Start: 54066, Stop: 52207, Start Num: 190
Candidate Starts for OliverWalter_59:
(Start: 173 @54090 has 3 MA's), (Start: 190 @54066 has 336 MA's), (Start: 222 @54042 has 3 MA's), (Start: 232 @54036 has 2 MA's), (261, 53994), (274, 53973), (336, 53859), (339, 53853), (355, 53823), (390, 53763), (398, 53742), (416, 53688), (429, 53676), (436, 53658), (440, 53646), (487, 53541), (552, 53484), (569, 53448), (573, 53436), (585, 53409), (590, 53400), (611, 53364), (643, 53307), (648, 53298), (649, 53295), (651, 53292), (796, 52935), (804, 52902), (812, 52881), (848, 52788), (851, 52779), (877, 52716), (900, 52680), (901, 52677), (906, 52662), (939, 52584), (946, 52572), (953, 52551), (976, 52512), (1013, 52422), (1022, 52404), (1024, 52398), (1032, 52383), (1040, 52359), (1042, 52344), (1043, 52341), (1047, 52329), (1059, 52305), (1082, 52257), (1093, 52233),

Gene: Olivio_58 Start: 53901, Stop: 52084, Start Num: 230
Candidate Starts for Olivio_58:
(110, 54084), (Start: 230 @53901 has 52 MA's), (249, 53871), (366, 53691), (435, 53538), (439, 53526), (452, 53496), (458, 53490), (487, 53427), (489, 53421), (552, 53370), (566, 53343), (569, 53334), (590, 53286), (649, 53181), (694, 53085), (722, 53034), (775, 52890), (787, 52851), (797,

52821), (804, 52794), (810, 52782), (846, 52686), (848, 52680), (851, 52671), (854, 52659), (883, 52587), (900, 52557), (906, 52539), (912, 52530), (939, 52461), (946, 52449), (953, 52428), (992, 52359), (1002, 52344), (1010, 52320), (1013, 52299), (1022, 52281), (1024, 52275), (1040, 52236), (1043, 52218), (1047, 52206), (1059, 52182), (1078, 52140), (1093, 52110),

Gene: Ollie_48 Start: 31724, Stop: 29910, Start Num: 228
Candidate Starts for Ollie_48:
(Start: 228 @31724 has 960 MA's), (257, 31685), (263, 31673), (360, 31520), (369, 31505), (399, 31448), (424, 31391), (430, 31382), (448, 31340), (465, 31289), (490, 31238), (570, 31145), (590, 31097), (595, 31088), (607, 31073), (626, 31034), (643, 31007), (659, 30977), (703, 30884), (709, 30872), (732, 30824), (742, 30809), (803, 30653), (821, 30605), (836, 30566), (855, 30500), (871, 30461), (901, 30389), (919, 30350), (929, 30326), (935, 30308), (949, 30275), (958, 30248), (992, 30194), (1013, 30134), (1042, 30056), (1066, 29999), (1073, 29987), (1079, 29978),

Gene: Olliecat_39 Start: 28106, Stop: 29989, Start Num: 219
Candidate Starts for Olliecat_39:
(Start: 219 @28106 has 3 MA's), (Start: 241 @28127 has 3 MA's), (Start: 273 @28175 has 1 MA's), (Start: 285 @28196 has 1 MA's), (360, 28313), (399, 28376), (410, 28406), (418, 28427), (430, 28442), (435, 28454), (473, 28535), (482, 28550), (582, 28706), (601, 28736), (626, 28787), (637, 28808), (645, 28817), (693, 28916), (803, 29204), (806, 29210), (830, 29270), (836, 29291), (845, 29321), (848, 29330), (855, 29357), (898, 29450), (906, 29474), (935, 29540), (936, 29543), (973, 29621), (976, 29627), (1002, 29672), (1024, 29741), (1038, 29774), (1040, 29780), (1041, 29792), (1042, 29795), (1066, 29852), (1075, 29867), (1079, 29873), (1113, 29954),

Gene: Omniscient_61 Start: 54894, Stop: 53035, Start Num: 190
Candidate Starts for Omniscient_61:
(Start: 173 @54918 has 3 MA's), (Start: 190 @54894 has 336 MA's), (Start: 222 @54870 has 3 MA's), (Start: 232 @54864 has 2 MA's), (261, 54822), (274, 54801), (336, 54687), (339, 54681), (355, 54651), (390, 54591), (398, 54570), (416, 54516), (429, 54504), (436, 54486), (440, 54474), (487, 54369), (552, 54312), (569, 54276), (573, 54264), (583, 54240), (590, 54228), (601, 54210), (611, 54192), (622, 54174), (643, 54135), (648, 54126), (649, 54123), (651, 54120), (796, 53763), (804, 53730), (812, 53709), (848, 53616), (851, 53607), (877, 53544), (900, 53508), (901, 53505), (906, 53490), (939, 53412), (946, 53400), (953, 53379), (976, 53340), (1013, 53250), (1022, 53232), (1024, 53226), (1032, 53211), (1040, 53187), (1042, 53172), (1043, 53169), (1047, 53157), (1059, 53133), (1082, 53085), (1093, 53061),

Gene: OneBrain_63 Start: 54297, Stop: 52438, Start Num: 190
Candidate Starts for OneBrain_63:
(Start: 173 @54321 has 3 MA's), (Start: 190 @54297 has 336 MA's), (Start: 222 @54273 has 3 MA's), (Start: 232 @54267 has 2 MA's), (261, 54225), (274, 54204), (336, 54090), (339, 54084), (355, 54054), (390, 53994), (398, 53973), (416, 53919), (429, 53907), (436, 53889), (440, 53877), (487, 53772), (552, 53715), (569, 53679), (573, 53667), (583, 53643), (590, 53631), (601, 53613), (611, 53595), (622, 53577), (643, 53538), (648, 53529), (649, 53526), (651, 53523), (796, 53166), (804, 53133), (812, 53112), (848, 53019), (851, 53010), (877, 52947), (900, 52911), (901, 52908), (906, 52893), (939, 52815), (946, 52803), (953, 52782), (976, 52743), (1013, 52653), (1022, 52635), (1024, 52629), (1032, 52614), (1040, 52590), (1042, 52575), (1043, 52572), (1047, 52560), (1059, 52536), (1082, 52488), (1093, 52464),

Gene: Onglai_43 Start: 29824, Stop: 28031, Start Num: 228
Candidate Starts for Onglai_43:
(Start: 228 @29824 has 960 MA's), (235, 29815), (263, 29773), (342, 29653), (343, 29650), (370, 29602), (400, 29542), (411, 29512), (415, 29500), (424, 29488), (490, 29335), (570, 29242), (643, 29104), (659, 29074), (733, 28915), (742, 28903), (764, 28876), (798, 28768), (803, 28747), (851,

28612), (855, 28594), (900, 28513), (919, 28471), (949, 28396), (990, 28321), (1009, 28279), (1042, 28177), (1066, 28120), (1073, 28108), (1079, 28099),

Gene: Oofda_47 Start: 29834, Stop: 28044, Start Num: 228
Candidate Starts for Oofda_47:
(Start: 228 @29834 has 960 MA's), (399, 29555), (400, 29552), (410, 29525), (424, 29498), (448, 29447), (490, 29345), (570, 29252), (585, 29213), (595, 29195), (696, 29006), (729, 28940), (768, 28880), (778, 28841), (796, 28790), (798, 28781), (803, 28760), (823, 28709), (835, 28676), (845, 28643), (847, 28637), (855, 28607), (895, 28547), (900, 28526), (919, 28484), (930, 28457), (977, 28355), (1009, 28292), (1010, 28289), (1066, 28133), (1073, 28121), (1082, 28109),

Gene: Oogway_42 Start: 33561, Stop: 31732, Start Num: 228
Candidate Starts for Oogway_42:
(Start: 228 @33561 has 960 MA's), (366, 33348), (373, 33333), (410, 33255), (418, 33234), (424, 33228), (430, 33219), (479, 33102), (490, 33075), (570, 32982), (576, 32967), (590, 32934), (621, 32883), (622, 32880), (659, 32814), (680, 32784), (690, 32754), (709, 32709), (729, 32670), (803, 32490), (821, 32442), (840, 32394), (851, 32355), (855, 32337), (871, 32298), (895, 32277), (900, 32256), (905, 32241), (955, 32118), (1036, 31947), (1041, 31923), (1062, 31875), (1066, 31863), (1079, 31842), (1083, 31836), (1102, 31788), (1109, 31773),

Gene: Oosterbaan_60 Start: 54313, Stop: 52454, Start Num: 190
Candidate Starts for Oosterbaan_60:
(Start: 173 @54337 has 3 MA's), (Start: 190 @54313 has 336 MA's), (Start: 222 @54289 has 3 MA's), (Start: 232 @54283 has 2 MA's), (261, 54241), (274, 54220), (336, 54106), (339, 54100), (355, 54070), (390, 54010), (398, 53989), (416, 53935), (429, 53923), (436, 53905), (440, 53893), (487, 53788), (552, 53731), (569, 53695), (573, 53683), (585, 53656), (601, 53629), (611, 53611), (622, 53593), (643, 53554), (648, 53545), (649, 53542), (761, 53284), (796, 53182), (804, 53149), (812, 53128), (848, 53035), (851, 53026), (877, 52963), (900, 52927), (901, 52924), (906, 52909), (939, 52831), (946, 52819), (953, 52798), (976, 52759), (1013, 52669), (1022, 52651), (1024, 52645), (1032, 52630), (1040, 52606), (1042, 52591), (1043, 52588), (1047, 52576), (1059, 52552), (1082, 52504), (1093, 52480),

Gene: Opia_57 Start: 52500, Stop: 50671, Start Num: 190
Candidate Starts for Opia_57:
(Start: 190 @52500 has 336 MA's), (Start: 232 @52473 has 2 MA's), (Start: 255 @52443 has 8 MA's), (261, 52431), (Start: 276 @52404 has 2 MA's), (278, 52401), (284, 52392), (307, 52374), (362, 52278), (390, 52227), (399, 52203), (406, 52179), (467, 52041), (482, 52017), (487, 52005), (552, 51948), (569, 51912), (573, 51900), (583, 51876), (630, 51792), (648, 51762), (649, 51759), (664, 51729), (727, 51585), (755, 51519), (771, 51480), (775, 51468), (780, 51447), (787, 51429), (804, 51372), (831, 51315), (840, 51288), (848, 51258), (851, 51249), (875, 51183), (897, 51156), (900, 51147), (906, 51129), (919, 51105), (939, 51051), (946, 51039), (953, 51018), (992, 50949), (1013, 50889), (1022, 50871), (1036, 50838), (1040, 50826), (1042, 50811), (1043, 50808), (1047, 50796), (1059, 50772), (1060, 50769), (1082, 50721), (1083, 50718), (1093, 50697), (1100, 50676),

Gene: Orange_44 Start: 30325, Stop: 28538, Start Num: 228
Candidate Starts for Orange_44:
(Start: 228 @30325 has 960 MA's), (360, 30121), (399, 30049), (410, 30019), (424, 29992), (572, 29740), (595, 29689), (643, 29608), (668, 29563), (707, 29479), (733, 29422), (766, 29380), (778, 29335), (803, 29254), (823, 29203), (836, 29167), (855, 29101), (895, 29041), (897, 29029), (938, 28927), (949, 28903), (954, 28885), (992, 28822), (1007, 28795), (1009, 28786), (1013, 28762), (1066, 28627), (1073, 28615), (1079, 28606),

Gene: OrangeOswald_58 Start: 53684, Stop: 51867, Start Num: 230

Candidate Starts for OrangeOswald_58:
(110, 53867), (Start: 230 @53684 has 52 MA's), (249, 53654), (366, 53474), (411, 53369), (435, 53321), (439, 53309), (452, 53279), (458, 53273), (487, 53210), (489, 53204), (552, 53153), (569, 53117), (590, 53069), (649, 52964), (694, 52868), (722, 52817), (775, 52673), (787, 52634), (797, 52604), (804, 52577), (810, 52565), (846, 52469), (848, 52463), (851, 52454), (854, 52442), (883, 52370), (900, 52340), (906, 52322), (912, 52313), (939, 52244), (946, 52232), (953, 52211), (992, 52142), (1002, 52127), (1010, 52103), (1013, 52082), (1022, 52064), (1024, 52058), (1038, 52025), (1040, 52019), (1043, 52001), (1047, 51989), (1054, 51977), (1059, 51965), (1078, 51923), (1093, 51893),

Gene: Orfeu_59 Start: 54570, Stop: 52711, Start Num: 190
Candidate Starts for Orfeu_59:
(Start: 173 @54594 has 3 MA's), (Start: 190 @54570 has 336 MA's), (Start: 222 @54546 has 3 MA's), (Start: 232 @54540 has 2 MA's), (261, 54498), (274, 54477), (336, 54363), (339, 54357), (355, 54327), (390, 54267), (398, 54246), (416, 54192), (429, 54180), (436, 54162), (440, 54150), (487, 54045), (552, 53988), (569, 53952), (573, 53940), (585, 53913), (601, 53886), (611, 53868), (622, 53850), (643, 53811), (648, 53802), (649, 53799), (651, 53796), (796, 53439), (804, 53406), (812, 53385), (848, 53292), (851, 53283), (877, 53220), (900, 53184), (901, 53181), (906, 53166), (939, 53088), (946, 53076), (953, 53055), (976, 53016), (1013, 52926), (1022, 52908), (1024, 52902), (1032, 52887), (1040, 52863), (1042, 52848), (1043, 52845), (1047, 52833), (1059, 52809), (1082, 52761), (1093, 52737),

Gene: Origami_45 Start: 30472, Stop: 32334, Start Num: 228
Candidate Starts for Origami_45:
(Start: 228 @30472 has 960 MA's), (261, 30520), (366, 30685), (410, 30769), (442, 30835), (579, 31081), (626, 31171), (703, 31318), (707, 31324), (745, 31408), (803, 31582), (835, 31666), (845, 31699), (898, 31828), (901, 31837), (945, 31939), (1013, 32095), (1024, 32119), (1036, 32146), (1040, 32158), (1066, 32230),

Gene: Orion_62 Start: 53975, Stop: 52116, Start Num: 190
Candidate Starts for Orion_62:
(Start: 173 @53999 has 3 MA's), (Start: 190 @53975 has 336 MA's), (Start: 222 @53951 has 3 MA's), (Start: 232 @53945 has 2 MA's), (261, 53903), (274, 53882), (336, 53768), (339, 53762), (355, 53732), (390, 53672), (398, 53651), (416, 53597), (429, 53585), (436, 53567), (440, 53555), (487, 53450), (552, 53393), (569, 53357), (573, 53345), (585, 53318), (601, 53291), (611, 53273), (622, 53255), (643, 53216), (648, 53207), (649, 53204), (761, 52946), (796, 52844), (804, 52811), (812, 52790), (848, 52697), (851, 52688), (877, 52625), (900, 52589), (901, 52586), (906, 52571), (939, 52493), (946, 52481), (953, 52460), (976, 52421), (1013, 52331), (1022, 52313), (1024, 52307), (1032, 52292), (1040, 52268), (1042, 52253), (1043, 52250), (1047, 52238), (1059, 52214), (1082, 52166), (1093, 52142),

Gene: Orpington_39 Start: 28738, Stop: 26873, Start Num: 301
Candidate Starts for Orpington_39:
(Start: 301 @28738 has 153 MA's), (320, 28693), (346, 28639), (382, 28579), (402, 28528), (439, 28450), (442, 28444), (458, 28399), (459, 28396), (460, 28393), (474, 28354), (502, 28294), (582, 28171), (586, 28162), (590, 28150), (597, 28138), (607, 28120), (618, 28099), (623, 28087), (706, 27916), (773, 27748), (840, 27583), (850, 27547), (855, 27526), (873, 27484), (908, 27397), (924, 27352), (965, 27253), (989, 27208), (992, 27199), (1010, 27139), (1013, 27115), (1025, 27082), (1068, 26971),

Gene: Orwigg_60 Start: 53955, Stop: 52096, Start Num: 190
Candidate Starts for Orwigg_60:

(Start: 173 @53979 has 3 MA's), (Start: 190 @53955 has 336 MA's), (Start: 222 @53931 has 3 MA's), (Start: 232 @53925 has 2 MA's), (261, 53883), (274, 53862), (336, 53748), (339, 53742), (355, 53712), (390, 53652), (398, 53631), (416, 53577), (429, 53565), (436, 53547), (440, 53535), (487, 53430), (552, 53373), (569, 53337), (573, 53325), (583, 53301), (590, 53289), (601, 53271), (611, 53253), (622, 53235), (643, 53196), (648, 53187), (649, 53184), (651, 53181), (761, 52926), (796, 52824), (804, 52791), (812, 52770), (848, 52677), (851, 52668), (877, 52605), (900, 52569), (901, 52566), (906, 52551), (939, 52473), (946, 52461), (953, 52440), (976, 52401), (1013, 52311), (1022, 52293), (1024, 52287), (1032, 52272), (1040, 52248), (1042, 52233), (1043, 52230), (1047, 52218), (1059, 52194), (1082, 52146), (1093, 52122),

Gene: Oxtober96_39 Start: 28935, Stop: 27070, Start Num: 301
Candidate Starts for Oxtober96_39:
(Start: 241 @29022 has 3 MA's), (Start: 243 @29019 has 1 MA's), (288, 28950), (Start: 301 @28935 has 153 MA's), (Start: 305 @28926 has 5 MA's), (353, 28821), (360, 28812), (378, 28782), (380, 28779), (435, 28659), (439, 28647), (442, 28641), (483, 28536), (494, 28509), (582, 28368), (586, 28359), (590, 28347), (606, 28320), (607, 28317), (614, 28302), (618, 28296), (621, 28290), (638, 28257), (726, 28068), (847, 27753), (850, 27744), (851, 27741), (855, 27723), (873, 27681), (877, 27675), (888, 27651), (908, 27594), (974, 27435), (989, 27405), (992, 27396), (1010, 27336), (1013, 27312), (1028, 27273), (1040, 27240), (1044, 27228), (1068, 27168),

Gene: P28Green_49 Start: 31855, Stop: 30041, Start Num: 228
Candidate Starts for P28Green_49:
(Start: 228 @31855 has 960 MA's), (257, 31816), (263, 31804), (360, 31651), (369, 31636), (399, 31579), (424, 31522), (430, 31513), (448, 31471), (465, 31420), (490, 31369), (570, 31276), (590, 31228), (595, 31219), (607, 31204), (626, 31165), (643, 31138), (659, 31108), (703, 31015), (732, 30955), (742, 30940), (803, 30784), (836, 30697), (855, 30631), (871, 30592), (901, 30520), (919, 30481), (929, 30457), (935, 30439), (949, 30406), (958, 30379), (992, 30325), (1013, 30265), (1042, 30187), (1066, 30130), (1073, 30118), (1079, 30109),

Gene: PG1_61 Start: 54546, Stop: 52687, Start Num: 190
Candidate Starts for PG1_61:
(Start: 173 @54570 has 3 MA's), (Start: 190 @54546 has 336 MA's), (Start: 222 @54522 has 3 MA's), (Start: 232 @54516 has 2 MA's), (261, 54474), (274, 54453), (336, 54339), (339, 54333), (355, 54303), (390, 54243), (398, 54222), (416, 54168), (429, 54156), (436, 54138), (440, 54126), (487, 54021), (552, 53964), (569, 53928), (573, 53916), (585, 53889), (601, 53862), (611, 53844), (622, 53826), (643, 53787), (648, 53778), (649, 53775), (761, 53517), (796, 53415), (804, 53382), (812, 53361), (848, 53268), (851, 53259), (877, 53196), (900, 53160), (901, 53157), (906, 53142), (939, 53064), (946, 53052), (953, 53031), (976, 52992), (1013, 52902), (1022, 52884), (1024, 52878), (1032, 52863), (1040, 52839), (1042, 52824), (1043, 52821), (1047, 52809), (1059, 52785), (1082, 52737), (1093, 52713),

Gene: PGHhamlin_50 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for PGHhamlin_50:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: PP_46 Start: 35109, Stop: 33271, Start Num: 228
Candidate Starts for PP_46:

(Start: 228 @35109 has 960 MA's), (263, 35058), (360, 34905), (366, 34896), (373, 34881), (396, 34845), (424, 34776), (430, 34767), (435, 34755), (490, 34623), (570, 34527), (592, 34479), (595, 34473), (626, 34419), (707, 34266), (729, 34221), (803, 34029), (815, 33999), (851, 33894), (855, 33876), (856, 33873), (871, 33837), (901, 33765), (906, 33750), (934, 33687), (990, 33561), (1013, 33495), (1066, 33360), (1073, 33348), (1079, 33339),

Gene: PSirce_38 Start: 28735, Stop: 26870, Start Num: 301
Candidate Starts for PSirce_38:
(Start: 301 @28735 has 153 MA's), (320, 28690), (346, 28636), (382, 28576), (402, 28525), (439, 28447), (442, 28441), (458, 28396), (459, 28393), (460, 28390), (474, 28351), (502, 28291), (582, 28168), (586, 28159), (590, 28147), (597, 28135), (607, 28117), (618, 28096), (623, 28084), (706, 27913), (773, 27745), (840, 27580), (850, 27544), (855, 27523), (873, 27481), (908, 27394), (924, 27349), (965, 27250), (989, 27205), (992, 27196), (1010, 27136), (1013, 27112), (1025, 27079), (1068, 26968),

Gene: PSullivan_44 Start: 33947, Stop: 32121, Start Num: 228
Candidate Starts for PSullivan_44:
(Start: 228 @33947 has 960 MA's), (366, 33734), (373, 33719), (399, 33671), (410, 33641), (418, 33620), (424, 33614), (430, 33605), (479, 33488), (490, 33461), (570, 33368), (576, 33353), (583, 33332), (621, 33269), (622, 33266), (659, 33200), (680, 33170), (690, 33140), (709, 33095), (729, 33056), (803, 32876), (815, 32846), (821, 32828), (823, 32825), (836, 32789), (855, 32723), (871, 32684), (895, 32663), (900, 32642), (906, 32624), (935, 32558), (1009, 32408), (1010, 32405), (1018, 32369), (1035, 32336), (1039, 32324), (1066, 32249), (1079, 32228),

Gene: Pabst_11 Start: 8695, Stop: 6443, Start Num: 161
Candidate Starts for Pabst_11:
(Start: 161 @8695 has 21 MA's), (Start: 225 @8611 has 16 MA's), (306, 8491), (312, 8476), (316, 8470), (318, 8464), (361, 8386), (365, 8380), (388, 8338), (395, 8323), (451, 8170), (508, 8023), (511, 8002), (517, 7972), (645, 7702), (692, 7600), (714, 7549), (723, 7525), (724, 7522), (753, 7441), (778, 7366), (841, 7171), (844, 7159), (852, 7132), (857, 7111), (862, 7078), (868, 7063), (877, 7033), (879, 7024), (882, 7018), (890, 6994), (910, 6934), (923, 6910), (931, 6892), (970, 6799), (1032, 6628), (1035, 6616), (1053, 6568), (1062, 6541), (1064, 6538), (1066, 6529), (1073, 6517), (1090, 6478),

Gene: PacerPaul_45 Start: 34817, Stop: 32991, Start Num: 228
Candidate Starts for PacerPaul_45:
(Start: 228 @34817 has 960 MA's), (366, 34604), (373, 34589), (410, 34511), (418, 34490), (424, 34484), (430, 34475), (479, 34358), (490, 34331), (570, 34238), (576, 34223), (590, 34190), (621, 34139), (622, 34136), (659, 34070), (680, 34040), (690, 34010), (709, 33965), (729, 33926), (803, 33746), (815, 33716), (821, 33698), (823, 33695), (836, 33659), (855, 33593), (900, 33512), (901, 33509), (935, 33428), (1004, 33293), (1009, 33278), (1010, 33275), (1018, 33239), (1032, 33215), (1035, 33206), (1039, 33194), (1045, 33167), (1066, 33119), (1079, 33098),

Gene: Pacifista_59 Start: 54030, Stop: 52171, Start Num: 190
Candidate Starts for Pacifista_59:
(Start: 173 @54054 has 3 MA's), (Start: 190 @54030 has 336 MA's), (Start: 222 @54006 has 3 MA's), (Start: 232 @54000 has 2 MA's), (261, 53958), (274, 53937), (336, 53823), (339, 53817), (355, 53787), (390, 53727), (398, 53706), (416, 53652), (429, 53640), (436, 53622), (440, 53610), (487, 53505), (552, 53448), (569, 53412), (573, 53400), (583, 53376), (590, 53364), (601, 53346), (611, 53328), (622, 53310), (643, 53271), (648, 53262), (649, 53259), (651, 53256), (796, 52899), (804, 52866), (812, 52845), (848, 52752), (851, 52743), (877, 52680), (900, 52644), (901, 52641), (906, 52626), (939, 52548), (946, 52536), (953, 52515), (976, 52476), (1013, 52386), (1022, 52368), (1024, 52362), (1032, 52347), (1040, 52323), (1042, 52308), (1043, 52305), (1047, 52293), (1059, 52269), (1082, 52221), (1093, 52197),

Gene: PackMan_44 Start: 31483, Stop: 29690, Start Num: 228
Candidate Starts for PackMan_44:
(Start: 228 @31483 has 960 MA's), (235, 31474), (263, 31432), (342, 31312), (343, 31309), (370, 31261), (400, 31201), (411, 31171), (415, 31159), (424, 31147), (490, 30994), (570, 30901), (643, 30763), (659, 30733), (733, 30574), (742, 30562), (764, 30535), (798, 30427), (803, 30406), (851, 30271), (855, 30253), (900, 30172), (919, 30130), (949, 30055), (990, 29980), (1009, 29938), (1042, 29836), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: PainterBoy_45 Start: 30908, Stop: 29076, Start Num: 228
Candidate Starts for PainterBoy_45:
(Start: 228 @30908 has 960 MA's), (360, 30704), (362, 30701), (384, 30665), (399, 30632), (400, 30629), (410, 30602), (418, 30581), (424, 30575), (430, 30566), (448, 30524), (480, 30446), (490, 30422), (570, 30329), (659, 30161), (764, 29963), (803, 29834), (840, 29738), (851, 29699), (855, 29681), (897, 29609), (900, 29600), (955, 29462), (1007, 29375), (1009, 29366), (1042, 29264), (1066, 29207), (1073, 29195), (1115, 29090),

Gene: Pajaza_35 Start: 27722, Stop: 25905, Start Num: 298
Candidate Starts for Pajaza_35:
(Start: 298 @27722 has 15 MA's), (307, 27707), (439, 27431), (442, 27425), (545, 27290), (554, 27275), (585, 27197), (586, 27194), (590, 27182), (607, 27152), (636, 27095), (706, 26948), (777, 26768), (833, 26630), (850, 26579), (851, 26576), (855, 26558), (856, 26555), (873, 26516), (908, 26429), (917, 26402), (974, 26270), (1013, 26147), (1025, 26114), (1028, 26108), (1033, 26099), (1068, 26003), (1072, 25997),

Gene: Palestino_44 Start: 31570, Stop: 29741, Start Num: 228
Candidate Starts for Palestino_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (654, 30838), (657, 30832), (696, 30751), (707, 30730), (729, 30685), (798, 30520), (803, 30499), (855, 30346), (870, 30310), (871, 30307), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: PallasAthena_61 Start: 54032, Stop: 52173, Start Num: 190
Candidate Starts for PallasAthena_61:
(Start: 173 @54056 has 3 MA's), (Start: 190 @54032 has 336 MA's), (Start: 222 @54008 has 3 MA's), (Start: 232 @54002 has 2 MA's), (261, 53960), (274, 53939), (336, 53825), (339, 53819), (355, 53789), (390, 53729), (398, 53708), (416, 53654), (429, 53642), (436, 53624), (440, 53612), (487, 53507), (552, 53450), (569, 53414), (573, 53402), (583, 53378), (590, 53366), (601, 53348), (611, 53330), (622, 53312), (643, 53273), (648, 53264), (649, 53261), (651, 53258), (796, 52901), (804, 52868), (812, 52847), (848, 52754), (851, 52745), (877, 52682), (900, 52646), (901, 52643), (906, 52628), (939, 52550), (946, 52538), (953, 52517), (976, 52478), (1013, 52388), (1022, 52370), (1024, 52364), (1032, 52349), (1040, 52325), (1042, 52310), (1043, 52307), (1047, 52295), (1059, 52271), (1082, 52223), (1093, 52199),

Gene: Panamaxus_42 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for Panamaxus_42:
(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836),

(1079, 29827),

Gene: Panchaali_90 Start: 75288, Stop: 77090, Start Num: 233
Candidate Starts for Panchaali_90:
(Start: 233 @75288 has 2 MA's), (Start: 276 @75357 has 2 MA's), (299, 75390), (317, 75417), (342, 75450), (390, 75525), (411, 75582), (429, 75606), (442, 75639), (473, 75699), (613, 75891), (626, 75918), (629, 75924), (633, 75933), (666, 75987), (729, 76119), (774, 76215), (783, 76248), (798, 76287), (803, 76308), (806, 76314), (835, 76398), (845, 76431), (870, 76515), (871, 76518), (898, 76581), (902, 76593), (919, 76629), (932, 76662), (953, 76716), (960, 76734), (1002, 76818), (1009, 76839), (1014, 76866), (1022, 76881), (1038, 76920), (1041, 76938), (1045, 76950), (1049, 76962), (1066, 76998),

Gene: PandaPo_41 Start: 28334, Stop: 30199, Start Num: 228
Candidate Starts for PandaPo_41:
(Start: 228 @28334 has 960 MA's), (261, 28382), (343, 28508), (410, 28631), (452, 28721), (572, 28928), (576, 28937), (626, 29036), (633, 29051), (660, 29096), (707, 29189), (768, 29327), (803, 29447), (815, 29477), (828, 29510), (836, 29534), (855, 29600), (898, 29693), (929, 29765), (977, 29873), (1009, 29936), (1066, 30095), (1071, 30104),

Gene: Papafritta_38 Start: 28640, Stop: 26775, Start Num: 301
Candidate Starts for Papafritta_38:
(Start: 241 @28727 has 3 MA's), (Start: 243 @28724 has 1 MA's), (Start: 301 @28640 has 153 MA's), (Start: 305 @28631 has 5 MA's), (353, 28526), (360, 28517), (378, 28487), (380, 28484), (435, 28364), (439, 28352), (442, 28346), (483, 28241), (494, 28214), (582, 28073), (585, 28067), (586, 28064), (590, 28052), (606, 28025), (607, 28022), (614, 28007), (618, 28001), (621, 27995), (638, 27962), (701, 27833), (726, 27773), (847, 27458), (850, 27449), (851, 27446), (855, 27428), (873, 27386), (877, 27380), (879, 27371), (888, 27356), (908, 27299), (974, 27140), (989, 27110), (992, 27101), (1010, 27041), (1013, 27017), (1028, 26978), (1040, 26945), (1044, 26933), (1068, 26873),

Gene: Papez_47 Start: 36969, Stop: 35152, Start Num: 228
Candidate Starts for Papez_47:
(Start: 228 @36969 has 960 MA's), (366, 36756), (399, 36693), (410, 36663), (418, 36642), (424, 36636), (430, 36627), (465, 36534), (479, 36510), (490, 36483), (570, 36390), (576, 36375), (590, 36342), (621, 36291), (622, 36288), (659, 36222), (690, 36162), (709, 36117), (729, 36078), (803, 35898), (821, 35850), (835, 35814), (836, 35811), (855, 35745), (871, 35706), (895, 35685), (900, 35664), (906, 35646), (935, 35580), (1009, 35430), (1010, 35427), (1018, 35391), (1032, 35367), (1035, 35358), (1039, 35346), (1066, 35271), (1079, 35250),

Gene: Paphu_43 Start: 34328, Stop: 32499, Start Num: 228
Candidate Starts for Paphu_43:
(Start: 228 @34328 has 960 MA's), (366, 34115), (373, 34100), (410, 34022), (418, 34001), (424, 33995), (430, 33986), (479, 33869), (490, 33842), (570, 33749), (576, 33734), (590, 33701), (621, 33650), (622, 33647), (659, 33581), (680, 33551), (690, 33521), (709, 33476), (729, 33437), (803, 33257), (821, 33209), (840, 33161), (851, 33122), (855, 33104), (871, 33065), (895, 33044), (900, 33023), (905, 33008), (955, 32885), (1036, 32714), (1041, 32690), (1062, 32642), (1066, 32630), (1079, 32609), (1083, 32603), (1102, 32555), (1109, 32540),

Gene: Paraselene_43 Start: 34680, Stop: 32854, Start Num: 228
Candidate Starts for Paraselene_43:
(Start: 228 @34680 has 960 MA's), (366, 34467), (373, 34452), (399, 34404), (410, 34374), (418, 34353), (424, 34347), (430, 34338), (479, 34221), (490, 34194), (570, 34101), (576, 34086), (590, 34053), (621, 34002), (622, 33999), (659, 33933), (680, 33903), (690, 33873), (709, 33828), (729, 33789), (803, 33609), (821, 33561), (836, 33522), (855, 33456), (871, 33417), (895, 33396), (900,

33375), (906, 33357), (935, 33291), (1009, 33141), (1010, 33138), (1018, 33102), (1032, 33078), (1035, 33069), (1039, 33057), (1066, 32982), (1079, 32961),

Gene: Pari_45 Start: 34105, Stop: 32279, Start Num: 228
Candidate Starts for Pari_45:
(Start: 228 @34105 has 960 MA's), (366, 33892), (373, 33877), (399, 33829), (410, 33799), (418, 33778), (424, 33772), (430, 33763), (479, 33646), (490, 33619), (570, 33526), (576, 33511), (621, 33427), (622, 33424), (659, 33358), (680, 33328), (690, 33298), (709, 33253), (729, 33214), (803, 33034), (821, 32986), (836, 32947), (855, 32881), (871, 32842), (895, 32821), (900, 32800), (906, 32782), (935, 32716), (1009, 32566), (1010, 32563), (1018, 32527), (1035, 32494), (1039, 32482), (1066, 32407), (1079, 32386),

Gene: Park1214_141 Start: 74910, Stop: 76946, Start Num: 255
Candidate Starts for Park1214_141:
(Start: 255 @74910 has 8 MA's), (271, 74940), (292, 74976), (308, 75000), (334, 75054), (342, 75066), (360, 75099), (398, 75168), (544, 75480), (561, 75513), (587, 75579), (626, 75648), (637, 75669), (666, 75717), (672, 75726), (766, 75963), (806, 76104), (839, 76221), (843, 76239), (894, 76359), (896, 76371), (923, 76440), (926, 76449), (941, 76491), (955, 76527), (991, 76608), (995, 76623), (1018, 76707), (1065, 76854), (1088, 76908), (1091, 76914),

Gene: ParleG_39 Start: 28937, Stop: 27072, Start Num: 301
Candidate Starts for ParleG_39:
(Start: 241 @29024 has 3 MA's), (Start: 243 @29021 has 1 MA's), (Start: 301 @28937 has 153 MA's), (Start: 305 @28928 has 5 MA's), (353, 28823), (360, 28814), (378, 28784), (380, 28781), (435, 28661), (439, 28649), (442, 28643), (483, 28538), (494, 28511), (582, 28370), (585, 28364), (586, 28361), (590, 28349), (606, 28322), (607, 28319), (614, 28304), (618, 28298), (621, 28292), (638, 28259), (701, 28130), (726, 28070), (847, 27755), (850, 27746), (851, 27743), (855, 27725), (873, 27683), (877, 27677), (879, 27668), (888, 27653), (908, 27596), (974, 27437), (989, 27407), (992, 27398), (1010, 27338), (1013, 27314), (1028, 27275), (1040, 27242), (1044, 27230), (1068, 27170),

Gene: Parliament_44 Start: 34876, Stop: 33050, Start Num: 228
Candidate Starts for Parliament_44:
(Start: 228 @34876 has 960 MA's), (366, 34663), (399, 34600), (410, 34570), (418, 34549), (424, 34543), (430, 34534), (479, 34417), (490, 34390), (570, 34297), (576, 34282), (621, 34198), (622, 34195), (659, 34129), (680, 34099), (690, 34069), (709, 34024), (729, 33985), (803, 33805), (821, 33757), (823, 33754), (836, 33718), (855, 33652), (871, 33613), (895, 33592), (900, 33571), (906, 33553), (935, 33487), (1009, 33337), (1010, 33334), (1018, 33298), (1032, 33274), (1035, 33265), (1039, 33253), (1066, 33178), (1079, 33157),

Gene: Partridge_36 Start: 28196, Stop: 26412, Start Num: 228
Candidate Starts for Partridge_36:
(Start: 228 @28196 has 960 MA's), (342, 28025), (379, 27962), (398, 27923), (415, 27875), (424, 27863), (430, 27854), (490, 27710), (570, 27617), (590, 27569), (626, 27506), (643, 27479), (696, 27374), (709, 27347), (729, 27308), (803, 27128), (821, 27080), (855, 26975), (856, 26972), (895, 26915), (900, 26894), (922, 26846), (951, 26771), (990, 26702), (1009, 26660), (1010, 26657), (1013, 26636), (1018, 26621), (1042, 26558), (1066, 26501), (1073, 26489), (1094, 26450), (1100, 26432),

Gene: PascalRango_45 Start: 34446, Stop: 32620, Start Num: 228
Candidate Starts for PascalRango_45:
(Start: 228 @34446 has 960 MA's), (366, 34233), (373, 34218), (399, 34170), (410, 34140), (418, 34119), (424, 34113), (430, 34104), (479, 33987), (490, 33960), (570, 33867), (576, 33852), (621, 33768), (622, 33765), (659, 33699), (680, 33669), (690, 33639), (709, 33594), (729, 33555), (803, 33375), (815, 33345), (821, 33327), (836, 33288), (855, 33222), (900, 33141), (901, 33138), (935,

33057), (1009, 32907), (1010, 32904), (1018, 32868), (1032, 32844), (1035, 32835), (1039, 32823), (1066, 32748), (1079, 32727),

Gene: PastaFagioli_43 Start: 30294, Stop: 32099, Start Num: 273
Candidate Starts for PastaFagioli_43:
(131, 30102), (140, 30114), (151, 30132), (180, 30177), (Start: 217 @30225 has 68 MA's), (Start: 273 @30294 has 1 MA's), (435, 30573), (436, 30576), (473, 30657), (572, 30789), (680, 30984), (741, 31131), (784, 31254), (803, 31314), (806, 31320), (823, 31365), (830, 31380), (833, 31395), (845, 31431), (855, 31467), (898, 31560), (904, 31578), (919, 31608), (973, 31731), (1009, 31803), (1018, 31842), (1038, 31884), (1058, 31938), (1066, 31962), (1073, 31974), (1079, 31983), (1090, 32007),

Gene: Patbob_98 Start: 78526, Stop: 80328, Start Num: 238
Candidate Starts for Patbob_98:
(Start: 238 @78526 has 11 MA's), (Start: 276 @78589 has 2 MA's), (Start: 285 @78601 has 1 MA's), (352, 78712), (390, 78766), (429, 78847), (439, 78874), (442, 78880), (479, 78949), (493, 78985), (570, 79054), (613, 79132), (626, 79159), (633, 79174), (729, 79363), (753, 79408), (767, 79432), (769, 79441), (774, 79459), (783, 79492), (798, 79531), (803, 79552), (806, 79558), (845, 79672), (870, 79756), (879, 79774), (898, 79822), (902, 79834), (919, 79870), (932, 79903), (935, 79912), (953, 79957), (960, 79975), (1002, 80059), (1009, 80080), (1014, 80107), (1041, 80179), (1049, 80203), (1066, 80239), (1083, 80266),

Gene: PattyP_45 Start: 34329, Stop: 32500, Start Num: 228
Candidate Starts for PattyP_45:
(Start: 228 @34329 has 960 MA's), (366, 34116), (373, 34101), (399, 34053), (410, 34023), (418, 34002), (424, 33996), (430, 33987), (462, 33903), (479, 33870), (490, 33843), (570, 33750), (576, 33735), (621, 33651), (622, 33648), (659, 33582), (680, 33552), (690, 33522), (709, 33477), (729, 33438), (803, 33258), (821, 33210), (840, 33162), (851, 33123), (855, 33105), (871, 33066), (895, 33045), (900, 33024), (905, 33009), (955, 32886), (1036, 32715), (1041, 32691), (1062, 32643), (1066, 32631), (1079, 32610), (1083, 32604), (1102, 32556), (1109, 32541),

Gene: PauloDiaboli_117 Start: 81175, Stop: 79307, Start Num: 233
Candidate Starts for PauloDiaboli_117:
(Start: 177 @81250 has 1 MA's), (Start: 215 @81196 has 12 MA's), (Start: 222 @81187 has 3 MA's), (Start: 233 @81175 has 2 MA's), (346, 80977), (362, 80950), (390, 80911), (413, 80848), (429, 80830), (439, 80803), (442, 80797), (493, 80689), (573, 80611), (581, 80590), (596, 80557), (613, 80527), (626, 80500), (660, 80440), (712, 80335), (729, 80302), (767, 80233), (769, 80224), (803, 80113), (843, 79999), (869, 79915), (877, 79900), (919, 79789), (922, 79783), (926, 79771), (932, 79756), (978, 79654), (983, 79645), (1013, 79555), (1032, 79516), (1036, 79504), (1042, 79477), (1066, 79420), (1083, 79396),

Gene: Pawn_48 Start: 31757, Stop: 29943, Start Num: 228
Candidate Starts for Pawn_48:
(Start: 228 @31757 has 960 MA's), (257, 31718), (263, 31706), (360, 31553), (369, 31538), (399, 31481), (424, 31424), (430, 31415), (448, 31373), (465, 31322), (490, 31271), (570, 31178), (590, 31130), (607, 31106), (626, 31067), (643, 31040), (659, 31010), (703, 30917), (709, 30905), (732, 30857), (742, 30842), (803, 30686), (823, 30635), (835, 30602), (836, 30599), (855, 30533), (871, 30494), (901, 30422), (919, 30383), (929, 30359), (935, 30341), (949, 30308), (992, 30227), (1013, 30167), (1022, 30149), (1042, 30089), (1045, 30080), (1066, 30032), (1073, 30020), (1079, 30011),

Gene: Payneful_44 Start: 33908, Stop: 32082, Start Num: 228
Candidate Starts for Payneful_44:
(Start: 228 @33908 has 960 MA's), (366, 33695), (373, 33680), (410, 33602), (418, 33581), (424, 33575), (430, 33566), (479, 33449), (490, 33422), (570, 33329), (576, 33314), (621, 33230), (622,

33227), (659, 33161), (680, 33131), (690, 33101), (709, 33056), (729, 33017), (803, 32837), (815, 32807), (821, 32789), (823, 32786), (836, 32750), (855, 32684), (900, 32603), (901, 32600), (935, 32519), (1009, 32369), (1010, 32366), (1018, 32330), (1032, 32306), (1035, 32297), (1039, 32285), (1045, 32258), (1066, 32210), (1079, 32189),

Gene: PeaceMeal1_42 Start: 30387, Stop: 28555, Start Num: 228
Candidate Starts for PeaceMeal1_42:
(Start: 228 @30387 has 960 MA's), (263, 30336), (307, 30270), (360, 30183), (366, 30174), (396, 30123), (399, 30111), (424, 30054), (458, 29973), (462, 29961), (465, 29952), (480, 29925), (490, 29901), (570, 29808), (585, 29769), (626, 29700), (643, 29673), (709, 29541), (803, 29313), (830, 29247), (847, 29190), (855, 29160), (871, 29121), (901, 29049), (906, 29034), (919, 29010), (935, 28968), (949, 28935), (1013, 28779), (1024, 28755), (1045, 28692), (1066, 28644), (1073, 28632), (1079, 28623),

Gene: Peaches_45 Start: 31569, Stop: 29743, Start Num: 228
Candidate Starts for Peaches_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: Pecas_43 Start: 29785, Stop: 31659, Start Num: 217
Candidate Starts for Pecas_43:
(Start: 215 @29782 has 12 MA's), (Start: 217 @29785 has 68 MA's), (Start: 273 @29854 has 1 MA's), (Start: 285 @29875 has 1 MA's), (304, 29899), (399, 30055), (430, 30121), (626, 30457), (696, 30592), (741, 30691), (784, 30814), (803, 30874), (806, 30880), (823, 30925), (830, 30940), (833, 30955), (845, 30991), (855, 31027), (898, 31120), (936, 31213), (973, 31291), (1009, 31363), (1018, 31402), (1038, 31444), (1041, 31462), (1066, 31522), (1079, 31543),

Gene: Peep_39 Start: 28922, Stop: 27057, Start Num: 301
Candidate Starts for Peep_39:
(Start: 241 @29009 has 3 MA's), (Start: 243 @29006 has 1 MA's), (Start: 301 @28922 has 153 MA's), (Start: 305 @28913 has 5 MA's), (353, 28808), (360, 28799), (378, 28769), (380, 28766), (435, 28646), (439, 28634), (442, 28628), (483, 28523), (494, 28496), (582, 28355), (585, 28349), (586, 28346), (590, 28334), (606, 28307), (607, 28304), (614, 28289), (618, 28283), (621, 28277), (638, 28244), (701, 28115), (726, 28055), (784, 27890), (847, 27740), (850, 27731), (851, 27728), (855, 27710), (873, 27668), (877, 27662), (879, 27653), (888, 27638), (908, 27581), (974, 27422), (989, 27392), (992, 27383), (1010, 27323), (1013, 27299), (1028, 27260), (1040, 27227), (1044, 27215), (1068, 27155),

Gene: Pelly_44 Start: 34856, Stop: 33030, Start Num: 228
Candidate Starts for Pelly_44:
(Start: 228 @34856 has 960 MA's), (373, 34628), (399, 34580), (410, 34550), (418, 34529), (424, 34523), (430, 34514), (479, 34397), (490, 34370), (570, 34277), (576, 34262), (590, 34229), (621, 34178), (622, 34175), (654, 34121), (659, 34109), (680, 34079), (690, 34049), (709, 34004), (729, 33965), (803, 33785), (821, 33737), (836, 33698), (855, 33632), (871, 33593), (895, 33572), (900, 33551), (906, 33533), (935, 33467), (1009, 33317), (1010, 33314), (1018, 33278), (1032, 33254), (1039, 33233), (1045, 33206), (1066, 33158), (1079, 33137),

Gene: Pembroke_48 Start: 31854, Stop: 30040, Start Num: 228
Candidate Starts for Pembroke_48:

(Start: 228 @31854 has 960 MA's), (257, 31815), (263, 31803), (360, 31650), (369, 31635), (399, 31578), (424, 31521), (430, 31512), (448, 31470), (465, 31419), (490, 31368), (570, 31275), (590, 31227), (595, 31218), (607, 31203), (626, 31164), (643, 31137), (659, 31107), (703, 31014), (709, 31002), (732, 30954), (742, 30939), (803, 30783), (836, 30696), (855, 30630), (871, 30591), (901, 30519), (919, 30480), (929, 30456), (935, 30438), (949, 30405), (958, 30378), (992, 30324), (1013, 30264), (1042, 30186), (1066, 30129), (1073, 30117), (1079, 30108),

Gene: PenguinLover67_56 Start: 54688, Stop: 52865, Start Num: 195
Candidate Starts for PenguinLover67_56:
(192, 54691), (Start: 195 @54688 has 3 MA's), (Start: 232 @54667 has 2 MA's), (249, 54640), (278, 54595), (292, 54586), (307, 54568), (362, 54475), (429, 54337), (439, 54313), (449, 54292), (487, 54205), (552, 54148), (569, 54112), (573, 54100), (583, 54076), (585, 54073), (590, 54064), (648, 53956), (649, 53953), (651, 53950), (664, 53923), (750, 53722), (775, 53656), (776, 53653), (780, 53635), (787, 53617), (796, 53593), (797, 53587), (804, 53560), (846, 53452), (848, 53446), (851, 53437), (900, 53338), (901, 53335), (906, 53320), (939, 53242), (946, 53230), (953, 53209), (960, 53191), (981, 53161), (1002, 53125), (1013, 53080), (1022, 53062), (1024, 53056), (1029, 53047), (1040, 53017), (1041, 53005), (1042, 53002), (1059, 52963), (1067, 52939), (1082, 52915), (1093, 52891), (1100, 52870),

Gene: Penny1_49 Start: 31856, Stop: 30042, Start Num: 228
Candidate Starts for Penny1_49:
(Start: 228 @31856 has 960 MA's), (257, 31817), (263, 31805), (360, 31652), (369, 31637), (399, 31580), (424, 31523), (430, 31514), (448, 31472), (465, 31421), (490, 31370), (570, 31277), (590, 31229), (595, 31220), (607, 31205), (626, 31166), (643, 31139), (659, 31109), (703, 31016), (732, 30956), (742, 30941), (803, 30785), (836, 30698), (855, 30632), (871, 30593), (901, 30521), (919, 30482), (929, 30458), (935, 30440), (949, 30407), (958, 30380), (992, 30326), (1013, 30266), (1042, 30188), (1066, 30131), (1073, 30119), (1079, 30110),

Gene: Penta_35 Start: 27010, Stop: 25109, Start Num: 298
Candidate Starts for Penta_35:
(Start: 298 @27010 has 15 MA's), (360, 26887), (378, 26857), (382, 26851), (400, 26809), (402, 26800), (431, 26743), (435, 26734), (439, 26722), (442, 26716), (552, 26515), (582, 26440), (586, 26431), (590, 26419), (607, 26389), (618, 26368), (623, 26356), (636, 26332), (708, 26182), (784, 25975), (800, 25921), (840, 25819), (845, 25798), (855, 25762), (870, 25726), (873, 25720), (908, 25633), (917, 25606), (974, 25474), (992, 25435), (997, 25414), (1010, 25375), (1013, 25351), (1015, 25345), (1025, 25318), (1068, 25207),

Gene: Pepe_42 Start: 33016, Stop: 31229, Start Num: 228
Candidate Starts for Pepe_42:
(Start: 228 @33016 has 960 MA's), (366, 32803), (373, 32788), (399, 32740), (410, 32710), (418, 32689), (424, 32683), (430, 32674), (479, 32557), (490, 32530), (570, 32437), (576, 32422), (621, 32338), (622, 32335), (659, 32269), (680, 32239), (690, 32209), (709, 32164), (729, 32125), (803, 31945), (821, 31897), (836, 31858), (855, 31792), (897, 31720), (900, 31711), (935, 31627), (977, 31540), (1032, 31414), (1036, 31402), (1058, 31342), (1066, 31318), (1069, 31312),

Gene: Peppino_38 Start: 29047, Stop: 27182, Start Num: 301
Candidate Starts for Peppino_38:
(Start: 301 @29047 has 153 MA's), (Start: 305 @29038 has 5 MA's), (433, 28774), (439, 28759), (442, 28753), (494, 28621), (545, 28567), (582, 28480), (586, 28471), (590, 28459), (606, 28432), (607, 28429), (614, 28414), (618, 28408), (768, 28078), (847, 27865), (850, 27856), (851, 27853), (855, 27835), (873, 27793), (879, 27778), (908, 27706), (917, 27679), (974, 27547), (989, 27517), (1010, 27448), (1013, 27424), (1015, 27418), (1028, 27385), (1040, 27352), (1044, 27340),

Gene: Percival_49 Start: 32475, Stop: 34340, Start Num: 227
Candidate Starts for Percival_49:
(138, 32349), (183, 32418), (Start: 227 @32475 has 33 MA's), (410, 32772), (473, 32916), (572, 33069), (626, 33177), (643, 33204), (681, 33264), (703, 33324), (707, 33330), (733, 33387), (736, 33393), (778, 33507), (803, 33588), (828, 33651), (845, 33705), (847, 33711), (922, 33888), (929, 33906), (932, 33915), (936, 33927), (976, 34011), (1022, 34119), (1040, 34164), (1066, 34236), (1104, 34314), (1112, 34335),

Gene: Perplexer_44 Start: 31519, Stop: 29690, Start Num: 228
Candidate Starts for Perplexer_44:
(Start: 228 @31519 has 960 MA's), (263, 31468), (278, 31438), (384, 31276), (394, 31258), (399, 31243), (424, 31186), (430, 31177), (480, 31057), (490, 31033), (544, 30991), (570, 30940), (592, 30892), (607, 30871), (626, 30832), (654, 30787), (657, 30781), (696, 30700), (707, 30679), (729, 30634), (798, 30469), (803, 30448), (855, 30295), (871, 30256), (901, 30184), (906, 30169), (919, 30145), (926, 30127), (929, 30121), (931, 30115), (1013, 29914), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: Perseus_45 Start: 35152, Stop: 33323, Start Num: 228
Candidate Starts for Perseus_45:
(Start: 228 @35152 has 960 MA's), (366, 34939), (373, 34924), (410, 34846), (418, 34825), (424, 34819), (430, 34810), (462, 34726), (479, 34693), (490, 34666), (570, 34573), (576, 34558), (583, 34537), (590, 34525), (621, 34474), (622, 34471), (659, 34405), (680, 34375), (690, 34345), (709, 34300), (729, 34261), (803, 34081), (821, 34033), (840, 33985), (851, 33946), (855, 33928), (871, 33889), (895, 33868), (900, 33847), (905, 33832), (955, 33709), (1036, 33538), (1041, 33514), (1062, 33466), (1066, 33454), (1079, 33433), (1083, 33427), (1102, 33379), (1109, 33364),

Gene: PeterPeter_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for PeterPeter_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Petersenfast_44 Start: 30332, Stop: 28545, Start Num: 228
Candidate Starts for Petersenfast_44:
(Start: 228 @30332 has 960 MA's), (360, 30128), (399, 30056), (410, 30026), (424, 29999), (572, 29747), (595, 29696), (643, 29615), (668, 29570), (670, 29567), (707, 29486), (733, 29429), (766, 29387), (778, 29342), (803, 29261), (823, 29210), (836, 29174), (855, 29108), (895, 29048), (897, 29036), (938, 28934), (949, 28910), (954, 28892), (992, 28829), (1007, 28802), (1009, 28793), (1013, 28769), (1066, 28634), (1073, 28622), (1079, 28613),

Gene: Peterson_48 Start: 37027, Stop: 35201, Start Num: 228
Candidate Starts for Peterson_48:
(Start: 228 @37027 has 960 MA's), (366, 36814), (373, 36799), (410, 36721), (424, 36694), (479, 36568), (490, 36541), (570, 36448), (576, 36433), (590, 36400), (621, 36349), (622, 36346), (659, 36280), (680, 36250), (690, 36220), (709, 36175), (729, 36136), (803, 35956), (821, 35908), (836, 35869), (855, 35803), (871, 35764), (895, 35743), (900, 35722), (906, 35704), (935, 35638), (1009, 35488), (1010, 35485), (1018, 35449), (1032, 35425), (1035, 35416), (1039, 35404), (1066, 35329), (1079, 35308),

Gene: PetiteSangsue_44 Start: 31522, Stop: 29693, Start Num: 228
Candidate Starts for PetiteSangsue_44:

(Start: 228 @31522 has 960 MA's), (263, 31471), (278, 31441), (384, 31279), (394, 31261), (399, 31246), (424, 31189), (430, 31180), (480, 31060), (490, 31036), (544, 30994), (570, 30943), (592, 30895), (607, 30874), (626, 30835), (654, 30790), (657, 30784), (696, 30703), (707, 30682), (729, 30637), (798, 30472), (803, 30451), (855, 30298), (871, 30259), (901, 30187), (906, 30172), (919, 30148), (926, 30130), (929, 30124), (931, 30118), (1013, 29917), (1066, 29782), (1073, 29770), (1079, 29761),

Gene: Petp2012_45 Start: 34941, Stop: 33115, Start Num: 228
Candidate Starts for Petp2012_45:
(Start: 228 @34941 has 960 MA's), (366, 34728), (373, 34713), (399, 34665), (410, 34635), (418, 34614), (424, 34608), (430, 34599), (479, 34482), (490, 34455), (570, 34362), (576, 34347), (583, 34326), (621, 34263), (622, 34260), (659, 34194), (680, 34164), (690, 34134), (709, 34089), (729, 34050), (803, 33870), (821, 33822), (836, 33783), (855, 33717), (871, 33678), (895, 33657), (900, 33636), (906, 33618), (935, 33552), (1009, 33402), (1010, 33399), (1018, 33363), (1032, 33339), (1035, 33330), (1039, 33318), (1066, 33243), (1079, 33222),

Gene: Petruchio_45 Start: 34801, Stop: 32972, Start Num: 228
Candidate Starts for Petruchio_45:
(Start: 228 @34801 has 960 MA's), (366, 34588), (373, 34573), (399, 34525), (410, 34495), (418, 34474), (424, 34468), (430, 34459), (479, 34342), (490, 34315), (570, 34222), (576, 34207), (590, 34174), (621, 34123), (622, 34120), (654, 34066), (659, 34054), (680, 34024), (690, 33994), (709, 33949), (729, 33910), (803, 33730), (821, 33682), (840, 33634), (851, 33595), (855, 33577), (871, 33538), (895, 33517), (900, 33496), (905, 33481), (955, 33358), (1036, 33187), (1041, 33163), (1062, 33115), (1066, 33103), (1079, 33082), (1083, 33076), (1102, 33028), (1109, 33013),

Gene: PetterN_40 Start: 30056, Stop: 28191, Start Num: 228
Candidate Starts for PetterN_40:
(165, 30131), (Start: 195 @30089 has 3 MA's), (Start: 228 @30056 has 960 MA's), (304, 29945), (360, 29852), (362, 29849), (399, 29780), (400, 29777), (410, 29750), (424, 29723), (430, 29714), (462, 29630), (465, 29621), (473, 29606), (490, 29570), (556, 29510), (570, 29474), (590, 29426), (606, 29405), (607, 29402), (637, 29342), (685, 29264), (703, 29216), (709, 29204), (732, 29156), (761, 29105), (803, 28970), (821, 28922), (836, 28883), (840, 28874), (848, 28844), (855, 28817), (856, 28814), (900, 28736), (906, 28718), (929, 28670), (949, 28619), (977, 28565), (982, 28556), (992, 28538), (1022, 28460), (1066, 28343), (1073, 28331), (1115, 28226),

Gene: Ph8s_46 Start: 30526, Stop: 28739, Start Num: 228
Candidate Starts for Ph8s_46:
(Start: 228 @30526 has 960 MA's), (360, 30322), (399, 30250), (400, 30247), (410, 30220), (424, 30193), (435, 30172), (490, 30040), (570, 29947), (590, 29899), (643, 29809), (670, 29761), (803, 29455), (835, 29371), (836, 29368), (847, 29332), (855, 29302), (871, 29263), (895, 29242), (897, 29230), (900, 29221), (904, 29209), (949, 29104), (958, 29077), (982, 29041), (992, 29023), (1009, 28987), (1013, 28963), (1066, 28828), (1073, 28816), (1079, 28807),

Gene: Phacado_45 Start: 31569, Stop: 29743, Start Num: 228
Candidate Starts for Phacado_45:
(Start: 228 @31569 has 960 MA's), (Start: 241 @31548 has 3 MA's), (263, 31518), (278, 31488), (384, 31326), (394, 31308), (424, 31236), (430, 31227), (480, 31107), (490, 31083), (570, 30990), (592, 30942), (607, 30921), (626, 30882), (696, 30750), (707, 30729), (729, 30684), (733, 30672), (798, 30519), (803, 30498), (847, 30375), (855, 30345), (871, 30306), (900, 30240), (901, 30237), (906, 30222), (919, 30198), (929, 30174), (1013, 29967), (1066, 29832), (1073, 29820), (1079, 29811),

Gene: Phaded_46 Start: 32625, Stop: 30835, Start Num: 228
Candidate Starts for Phaded_46:

(Start: 228 @32625 has 960 MA's), (360, 32421), (366, 32412), (400, 32343), (410, 32316), (424, 32289), (490, 32136), (570, 32043), (590, 31995), (595, 31986), (607, 31971), (643, 31905), (660, 31872), (701, 31788), (742, 31707), (766, 31677), (803, 31551), (815, 31521), (823, 31500), (847, 31428), (855, 31398), (871, 31359), (895, 31338), (900, 31317), (904, 31305), (982, 31137), (1009, 31083), (1013, 31059), (1038, 31002), (1042, 30981), (1066, 30924), (1073, 30912), (1079, 30903),

Gene: Phaeder_45 Start: 31483, Stop: 29690, Start Num: 228
Candidate Starts for Phaeder_45:
(Start: 228 @31483 has 960 MA's), (235, 31474), (263, 31432), (342, 31312), (343, 31309), (370, 31261), (400, 31201), (411, 31171), (415, 31159), (424, 31147), (490, 30994), (570, 30901), (643, 30763), (659, 30733), (733, 30574), (742, 30562), (764, 30535), (798, 30427), (803, 30406), (851, 30271), (855, 30253), (900, 30172), (919, 30130), (949, 30055), (990, 29980), (1009, 29938), (1042, 29836), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: Phaedrus_54 Start: 53117, Stop: 51300, Start Num: 230
Candidate Starts for Phaedrus_54:
(110, 53300), (Start: 230 @53117 has 52 MA's), (249, 53087), (366, 52907), (435, 52754), (439, 52742), (452, 52712), (458, 52706), (487, 52643), (489, 52637), (552, 52586), (566, 52559), (569, 52550), (590, 52502), (649, 52397), (694, 52301), (722, 52250), (775, 52106), (787, 52067), (797, 52037), (804, 52010), (810, 51998), (846, 51902), (848, 51896), (851, 51887), (854, 51875), (883, 51803), (900, 51773), (906, 51755), (912, 51746), (939, 51677), (946, 51665), (953, 51644), (992, 51575), (1002, 51560), (1010, 51536), (1013, 51515), (1024, 51491), (1040, 51452), (1043, 51434), (1047, 51422), (1054, 51410), (1059, 51398), (1078, 51356), (1093, 51326),

Gene: PhailMary_35 Start: 28435, Stop: 26651, Start Num: 228
Candidate Starts for PhailMary_35:
(Start: 228 @28435 has 960 MA's), (379, 28201), (396, 28171), (398, 28162), (399, 28159), (415, 28114), (424, 28102), (430, 28093), (448, 28051), (490, 27949), (498, 27928), (570, 27856), (587, 27811), (590, 27808), (617, 27766), (619, 27760), (626, 27745), (643, 27718), (696, 27613), (701, 27604), (709, 27586), (729, 27547), (767, 27490), (803, 27367), (821, 27319), (855, 27214), (856, 27211), (895, 27154), (900, 27133), (922, 27085), (951, 27010), (990, 26941), (1009, 26899), (1013, 26875), (1042, 26797), (1066, 26740), (1073, 26728), (1100, 26671),

Gene: Phamished_62 Start: 54237, Stop: 52378, Start Num: 190
Candidate Starts for Phamished_62:
(Start: 173 @54261 has 3 MA's), (Start: 190 @54237 has 336 MA's), (Start: 222 @54213 has 3 MA's), (Start: 232 @54207 has 2 MA's), (261, 54165), (274, 54144), (336, 54030), (339, 54024), (355, 53994), (390, 53934), (398, 53913), (416, 53859), (429, 53847), (436, 53829), (440, 53817), (487, 53712), (552, 53655), (569, 53619), (573, 53607), (583, 53583), (590, 53571), (601, 53553), (611, 53535), (622, 53517), (643, 53478), (648, 53469), (649, 53466), (651, 53463), (796, 53106), (804, 53073), (812, 53052), (848, 52959), (851, 52950), (877, 52887), (900, 52851), (901, 52848), (906, 52833), (939, 52755), (946, 52743), (953, 52722), (976, 52683), (1013, 52593), (1022, 52575), (1024, 52569), (1032, 52554), (1040, 52530), (1042, 52515), (1043, 52512), (1047, 52500), (1059, 52476), (1082, 52428), (1093, 52404),

Gene: Phanita_38 Start: 28715, Stop: 26850, Start Num: 301
Candidate Starts for Phanita_38:
(Start: 301 @28715 has 153 MA's), (346, 28616), (382, 28556), (402, 28505), (439, 28427), (442, 28421), (458, 28376), (459, 28373), (460, 28370), (474, 28331), (502, 28271), (582, 28148), (586, 28139), (590, 28127), (597, 28115), (607, 28097), (618, 28076), (623, 28064), (706, 27893), (773, 27725), (840, 27560), (850, 27524), (855, 27503), (873, 27461), (908, 27374), (924, 27329), (965, 27230), (989, 27185), (1010, 27116), (1013, 27092), (1025, 27059), (1068, 26948),

Gene: Phantasmagoria_57 Start: 52498, Stop: 50669, Start Num: 190
Candidate Starts for Phantasmagoria_57:
(Start: 190 @52498 has 336 MA's), (Start: 232 @52471 has 2 MA's), (Start: 255 @52441 has 8 MA's), (261, 52429), (Start: 276 @52402 has 2 MA's), (278, 52399), (284, 52390), (307, 52372), (362, 52276), (390, 52225), (399, 52201), (406, 52177), (467, 52039), (476, 52024), (482, 52015), (487, 52003), (552, 51946), (569, 51910), (573, 51898), (583, 51874), (630, 51790), (648, 51760), (649, 51757), (664, 51727), (727, 51583), (755, 51517), (775, 51466), (780, 51445), (787, 51427), (804, 51370), (831, 51313), (840, 51286), (848, 51256), (851, 51247), (875, 51181), (897, 51154), (900, 51145), (906, 51127), (919, 51103), (939, 51049), (946, 51037), (953, 51016), (992, 50947), (1013, 50887), (1022, 50869), (1036, 50836), (1040, 50824), (1042, 50809), (1043, 50806), (1047, 50794), (1059, 50770), (1060, 50767), (1082, 50719), (1083, 50716), (1093, 50695), (1100, 50674),

Gene: Phantastic_46 Start: 31173, Stop: 29335, Start Num: 228
Candidate Starts for Phantastic_46:
(171, 31245), (Start: 228 @31173 has 960 MA's), (263, 31122), (360, 30969), (399, 30897), (424, 30840), (430, 30831), (435, 30819), (480, 30711), (490, 30687), (570, 30591), (592, 30543), (626, 30483), (663, 30420), (696, 30351), (707, 30330), (742, 30261), (767, 30216), (803, 30093), (821, 30045), (847, 29970), (855, 29940), (901, 29829), (906, 29814), (919, 29790), (929, 29766), (935, 29748), (990, 29625), (992, 29619), (1007, 29592), (1013, 29559), (1066, 29424), (1073, 29412), (1079, 29403),

Gene: Pharaoh_39 Start: 30968, Stop: 29124, Start Num: 228
Candidate Starts for Pharaoh_39:
(Start: 228 @30968 has 960 MA's), (Start: 241 @30947 has 3 MA's), (Start: 255 @30932 has 8 MA's), (261, 30920), (366, 30755), (384, 30722), (399, 30689), (400, 30686), (410, 30659), (424, 30632), (435, 30611), (490, 30479), (570, 30386), (590, 30338), (595, 30329), (607, 30314), (626, 30275), (643, 30248), (670, 30200), (701, 30131), (742, 30050), (766, 30008), (783, 29945), (803, 29882), (823, 29831), (836, 29795), (847, 29759), (855, 29729), (871, 29690), (895, 29669), (900, 29648), (949, 29531), (982, 29468), (1009, 29414), (1013, 29390), (1038, 29333), (1042, 29312), (1066, 29255), (1073, 29243), (1100, 29186),

Gene: Phareon_59 Start: 53752, Stop: 51893, Start Num: 190
Candidate Starts for Phareon_59:
(Start: 173 @53776 has 3 MA's), (Start: 190 @53752 has 336 MA's), (Start: 222 @53728 has 3 MA's), (Start: 232 @53722 has 2 MA's), (261, 53680), (274, 53659), (336, 53545), (339, 53539), (355, 53509), (390, 53449), (398, 53428), (416, 53374), (429, 53362), (436, 53344), (440, 53332), (487, 53227), (552, 53170), (569, 53134), (573, 53122), (583, 53098), (590, 53086), (601, 53068), (611, 53050), (622, 53032), (643, 52993), (648, 52984), (649, 52981), (651, 52978), (796, 52621), (804, 52588), (812, 52567), (848, 52474), (851, 52465), (877, 52402), (900, 52366), (901, 52363), (906, 52348), (939, 52270), (946, 52258), (953, 52237), (976, 52198), (1013, 52108), (1022, 52090), (1024, 52084), (1032, 52069), (1040, 52045), (1042, 52030), (1043, 52027), (1047, 52015), (1059, 51991), (1082, 51943), (1093, 51919),

Gene: Pharky_10 Start: 8346, Stop: 6148, Start Num: 161
Candidate Starts for Pharky_10:
(Start: 161 @8346 has 21 MA's), (235, 8256), (261, 8220), (Start: 285 @8184 has 1 MA's), (299, 8166), (341, 8115), (356, 8085), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (516, 7671), (544, 7578), (571, 7512), (605, 7467), (606, 7464), (654, 7380), (682, 7329), (692, 7296), (714, 7245), (723, 7221), (724, 7218), (753, 7137), (799, 6990), (844, 6852), (857, 6804), (858, 6801), (875, 6729), (880, 6714), (898, 6651), (913, 6621), (1011, 6387), (1013, 6375), (1019, 6357), (1035, 6318), (1036, 6315), (1043, 6285), (1062, 6243), (1064, 6240), (1066, 6231), (1073, 6219),

Gene: PhatCats2014_61 Start: 54551, Stop: 52692, Start Num: 190

Candidate Starts for PhatCats2014_61:
(Start: 173 @54575 has 3 MA's), (Start: 190 @54551 has 336 MA's), (Start: 222 @54527 has 3 MA's), (Start: 232 @54521 has 2 MA's), (261, 54479), (274, 54458), (336, 54344), (339, 54338), (355, 54308), (390, 54248), (398, 54227), (416, 54173), (429, 54161), (436, 54143), (440, 54131), (487, 54026), (552, 53969), (569, 53933), (573, 53921), (585, 53894), (601, 53867), (611, 53849), (622, 53831), (643, 53792), (648, 53783), (649, 53780), (761, 53522), (796, 53420), (804, 53387), (812, 53366), (848, 53273), (851, 53264), (877, 53201), (900, 53165), (901, 53162), (906, 53147), (939, 53069), (946, 53057), (953, 53036), (976, 52997), (1013, 52907), (1022, 52889), (1024, 52883), (1032, 52868), (1040, 52844), (1042, 52829), (1043, 52826), (1047, 52814), (1059, 52790), (1082, 52742), (1093, 52718),

Gene: PhatLouie_62 Start: 54569, Stop: 52710, Start Num: 190
Candidate Starts for PhatLouie_62:
(Start: 173 @54593 has 3 MA's), (Start: 190 @54569 has 336 MA's), (Start: 222 @54545 has 3 MA's), (Start: 232 @54539 has 2 MA's), (261, 54497), (274, 54476), (336, 54362), (339, 54356), (355, 54326), (390, 54266), (398, 54245), (416, 54191), (429, 54179), (436, 54161), (440, 54149), (487, 54044), (552, 53987), (569, 53951), (573, 53939), (583, 53915), (590, 53903), (601, 53885), (611, 53867), (622, 53849), (643, 53810), (648, 53801), (649, 53798), (651, 53795), (796, 53438), (804, 53405), (812, 53384), (848, 53291), (851, 53282), (877, 53219), (900, 53183), (901, 53180), (906, 53165), (939, 53087), (946, 53075), (953, 53054), (976, 53015), (1013, 52925), (1022, 52907), (1024, 52901), (1032, 52886), (1040, 52862), (1042, 52847), (1043, 52844), (1047, 52832), (1059, 52808), (1082, 52760), (1093, 52736),

Gene: Phayeta_60 Start: 53944, Stop: 52127, Start Num: 230
Candidate Starts for Phayeta_60:
(110, 54127), (Start: 230 @53944 has 52 MA's), (249, 53914), (366, 53734), (435, 53581), (439, 53569), (452, 53539), (458, 53533), (487, 53470), (489, 53464), (552, 53413), (569, 53377), (590, 53329), (649, 53224), (694, 53128), (722, 53077), (775, 52933), (787, 52894), (797, 52864), (804, 52837), (810, 52825), (846, 52729), (848, 52723), (851, 52714), (854, 52702), (883, 52630), (900, 52600), (906, 52582), (912, 52573), (939, 52504), (946, 52492), (953, 52471), (992, 52402), (1002, 52387), (1010, 52363), (1013, 52342), (1022, 52324), (1024, 52318), (1038, 52285), (1040, 52279), (1043, 52261), (1047, 52249), (1054, 52237), (1059, 52225), (1078, 52183), (1093, 52153),

Gene: Phedro_10 Start: 8346, Stop: 6148, Start Num: 161
Candidate Starts for Phedro_10:
(Start: 161 @8346 has 21 MA's), (235, 8256), (261, 8220), (Start: 285 @8184 has 1 MA's), (299, 8166), (341, 8115), (356, 8085), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (516, 7671), (544, 7578), (571, 7512), (605, 7467), (606, 7464), (654, 7380), (682, 7329), (692, 7296), (714, 7245), (723, 7221), (724, 7218), (753, 7137), (799, 6990), (844, 6852), (857, 6804), (858, 6801), (875, 6729), (880, 6714), (898, 6651), (913, 6621), (1011, 6387), (1013, 6375), (1019, 6357), (1035, 6318), (1036, 6315), (1043, 6285), (1062, 6243), (1064, 6240), (1066, 6231), (1073, 6219),

Gene: Phelemich_56 Start: 54570, Stop: 52741, Start Num: 182
Candidate Starts for Phelemich_56:
(Start: 182 @54570 has 33 MA's), (Start: 217 @54549 has 68 MA's), (Start: 232 @54540 has 2 MA's), (249, 54513), (261, 54498), (307, 54441), (398, 54273), (435, 54195), (440, 54180), (449, 54162), (457, 54150), (472, 54114), (487, 54084), (569, 53991), (573, 53979), (574, 53976), (583, 53955), (585, 53952), (590, 53943), (601, 53925), (635, 53862), (649, 53838), (701, 53733), (748, 53610), (761, 53586), (771, 53559), (775, 53547), (776, 53544), (780, 53526), (787, 53508), (797, 53478), (804, 53451), (826, 53400), (848, 53337), (851, 53328), (883, 53244), (901, 53211), (906, 53196), (933, 53136), (939, 53118), (946, 53106), (953, 53085), (955, 53076), (957, 53073), (1013, 52956), (1022, 52938), (1024, 52932), (1040, 52893), (1041, 52881), (1042, 52878), (1047, 52863), (1054, 52851), (1059, 52839), (1078, 52797), (1083, 52788), (1093, 52767), (1100, 52746),

Gene: Phelipe_46 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Phelipe_46:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Phendrix_176 Start: 96123, Stop: 94333, Start Num: 228
Candidate Starts for Phendrix_176:
(Start: 228 @96123 has 960 MA's), (Start: 285 @96036 has 1 MA's), (313, 95994), (351, 95937), (414, 95814), (415, 95811), (433, 95784), (447, 95754), (462, 95727), (488, 95673), (493, 95658), (544, 95628), (570, 95589), (579, 95565), (584, 95553), (613, 95505), (626, 95478), (633, 95463), (666, 95409), (690, 95364), (709, 95319), (768, 95220), (769, 95214), (798, 95118), (803, 95097), (822, 95046), (845, 94980), (888, 94860), (898, 94830), (915, 94791), (919, 94782), (926, 94764), (932, 94749), (935, 94740), (937, 94734), (939, 94728), (956, 94686), (969, 94665), (1004, 94587), (1007, 94581), (1027, 94518), (1037, 94494), (1062, 94419), (1066, 94407), (1097, 94356),

Gene: PhenghisKhan_61 Start: 54194, Stop: 52335, Start Num: 190
Candidate Starts for PhenghisKhan_61:
(Start: 173 @54218 has 3 MA's), (Start: 190 @54194 has 336 MA's), (Start: 222 @54170 has 3 MA's), (Start: 232 @54164 has 2 MA's), (261, 54122), (274, 54101), (336, 53987), (339, 53981), (355, 53951), (390, 53891), (398, 53870), (416, 53816), (429, 53804), (436, 53786), (440, 53774), (487, 53669), (552, 53612), (569, 53576), (573, 53564), (583, 53540), (590, 53528), (601, 53510), (611, 53492), (622, 53474), (643, 53435), (648, 53426), (649, 53423), (651, 53420), (761, 53165), (796, 53063), (804, 53030), (812, 53009), (848, 52916), (851, 52907), (877, 52844), (900, 52808), (901, 52805), (906, 52790), (939, 52712), (946, 52700), (953, 52679), (976, 52640), (1013, 52550), (1022, 52532), (1024, 52526), (1032, 52511), (1040, 52487), (1042, 52472), (1043, 52469), (1047, 52457), (1059, 52433), (1066, 52412), (1082, 52385), (1093, 52361),

Gene: Pherbot_37 Start: 28480, Stop: 26630, Start Num: 297
Candidate Starts for Pherbot_37:
(Start: 297 @28480 has 21 MA's), (360, 28357), (380, 28324), (431, 28213), (439, 28192), (442, 28186), (460, 28135), (560, 27979), (582, 27925), (585, 27919), (586, 27916), (590, 27904), (607, 27874), (636, 27817), (706, 27670), (768, 27523), (847, 27313), (851, 27301), (855, 27283), (873, 27241), (879, 27226), (897, 27190), (908, 27154), (989, 26965), (992, 26956), (1010, 26896), (1013, 26872), (1020, 26851), (1025, 26839), (1068, 26728),

Gene: Pherdinand_62 Start: 54314, Stop: 52455, Start Num: 190
Candidate Starts for Pherdinand_62:
(Start: 173 @54338 has 3 MA's), (Start: 190 @54314 has 336 MA's), (Start: 222 @54290 has 3 MA's), (Start: 232 @54284 has 2 MA's), (261, 54242), (274, 54221), (336, 54107), (339, 54101), (355, 54071), (390, 54011), (398, 53990), (416, 53936), (429, 53924), (436, 53906), (440, 53894), (487, 53789), (552, 53732), (569, 53696), (573, 53684), (583, 53660), (590, 53648), (601, 53630), (611, 53612), (622, 53594), (643, 53555), (648, 53546), (649, 53543), (651, 53540), (796, 53183), (804, 53150), (812, 53129), (848, 53036), (851, 53027), (877, 52964), (900, 52928), (901, 52925), (906, 52910), (939, 52832), (946, 52820), (953, 52799), (976, 52760), (1013, 52670), (1022, 52652), (1024, 52646), (1032, 52631), (1040, 52607), (1042, 52592), (1043, 52589), (1047, 52577), (1059, 52553), (1082, 52505), (1093, 52481),

Gene: Pherferi_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Pherferi_39:

(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: Phergie_62 Start: 54186, Stop: 52327, Start Num: 190
Candidate Starts for Phergie_62:
(Start: 173 @54210 has 3 MA's), (Start: 190 @54186 has 336 MA's), (Start: 222 @54162 has 3 MA's), (Start: 232 @54156 has 2 MA's), (261, 54114), (274, 54093), (336, 53979), (339, 53973), (355, 53943), (390, 53883), (398, 53862), (416, 53808), (429, 53796), (436, 53778), (440, 53766), (487, 53661), (552, 53604), (569, 53568), (573, 53556), (583, 53532), (590, 53520), (601, 53502), (611, 53484), (622, 53466), (643, 53427), (648, 53418), (649, 53415), (651, 53412), (761, 53157), (796, 53055), (804, 53022), (812, 53001), (848, 52908), (851, 52899), (877, 52836), (900, 52800), (901, 52797), (906, 52782), (939, 52704), (946, 52692), (953, 52671), (976, 52632), (1013, 52542), (1022, 52524), (1024, 52518), (1032, 52503), (1040, 52479), (1042, 52464), (1043, 52461), (1047, 52449), (1059, 52425), (1066, 52404), (1082, 52377), (1093, 52353),

Gene: PherrisBueller_44 Start: 33917, Stop: 32091, Start Num: 228
Candidate Starts for PherrisBueller_44:
(Start: 228 @33917 has 960 MA's), (366, 33704), (373, 33689), (399, 33641), (410, 33611), (418, 33590), (424, 33584), (430, 33575), (479, 33458), (490, 33431), (570, 33338), (576, 33323), (621, 33239), (622, 33236), (659, 33170), (680, 33140), (690, 33110), (709, 33065), (729, 33026), (803, 32846), (821, 32798), (836, 32759), (855, 32693), (871, 32654), (895, 32633), (900, 32612), (906, 32594), (935, 32528), (1009, 32378), (1010, 32375), (1018, 32339), (1032, 32315), (1035, 32306), (1039, 32294), (1045, 32267), (1066, 32219), (1079, 32198),

Gene: Phiderman_39 Start: 28927, Stop: 27062, Start Num: 301
Candidate Starts for Phiderman_39:
(Start: 241 @29014 has 3 MA's), (Start: 243 @29011 has 1 MA's), (Start: 301 @28927 has 153 MA's), (Start: 305 @28918 has 5 MA's), (353, 28813), (360, 28804), (378, 28774), (380, 28771), (435, 28651), (439, 28639), (442, 28633), (483, 28528), (494, 28501), (582, 28360), (585, 28354), (586, 28351), (590, 28339), (606, 28312), (607, 28309), (614, 28294), (618, 28288), (621, 28282), (638, 28249), (726, 28060), (847, 27745), (850, 27736), (851, 27733), (855, 27715), (873, 27673), (877, 27667), (879, 27658), (888, 27643), (908, 27586), (974, 27427), (989, 27397), (992, 27388), (1010, 27328), (1013, 27304), (1028, 27265), (1040, 27232), (1044, 27220), (1068, 27160),

Gene: PhigPhack_43 Start: 29405, Stop: 31279, Start Num: 217
Candidate Starts for PhigPhack_43:
(Start: 217 @29405 has 68 MA's), (Start: 273 @29474 has 1 MA's), (Start: 285 @29495 has 1 MA's), (430, 29741), (436, 29756), (448, 29783), (626, 30077), (696, 30212), (741, 30311), (784, 30434), (803, 30494), (806, 30500), (823, 30545), (830, 30560), (833, 30575), (845, 30611), (855, 30647), (898, 30740), (936, 30833), (973, 30911), (1009, 30983), (1018, 31022), (1038, 31064), (1041, 31082), (1058, 31118), (1066, 31142), (1079, 31163),

Gene: Phighter1804_45 Start: 31612, Stop: 29786, Start Num: 228
Candidate Starts for Phighter1804_45:
(Start: 228 @31612 has 960 MA's), (Start: 241 @31591 has 3 MA's), (263, 31561), (278, 31531), (384, 31369), (394, 31351), (424, 31279), (430, 31270), (480, 31150), (490, 31126), (570, 31033), (592, 30985), (607, 30964), (626, 30925), (696, 30793), (707, 30772), (729, 30727), (733, 30715), (798, 30562), (803, 30541), (847, 30418), (855, 30388), (871, 30349), (900, 30283), (901, 30280), (906,

30265), (919, 30241), (929, 30217), (1013, 30010), (1066, 29875), (1073, 29863), (1079, 29854),

Gene: Phillis_44 Start: 30925, Stop: 29081, Start Num: 228
Candidate Starts for Phillis_44:
(119, 31090), (143, 31042), (Start: 228 @30925 has 960 MA's), (263, 30874), (343, 30751), (360, 30721), (384, 30682), (410, 30619), (418, 30598), (424, 30592), (430, 30583), (448, 30541), (465, 30490), (490, 30439), (570, 30343), (574, 30331), (580, 30316), (587, 30298), (590, 30295), (595, 30286), (626, 30232), (643, 30205), (670, 30157), (696, 30100), (709, 30073), (733, 30022), (744, 30007), (768, 29959), (798, 29860), (803, 29839), (815, 29809), (821, 29791), (823, 29788), (830, 29773), (836, 29752), (840, 29743), (847, 29716), (851, 29704), (855, 29686), (900, 29605), (904, 29593), (929, 29539), (942, 29503), (955, 29467), (977, 29434), (990, 29413), (992, 29407), (1010, 29368), (1022, 29329), (1066, 29212), (1073, 29200),

Gene: Philly_57 Start: 53504, Stop: 51687, Start Num: 230
Candidate Starts for Philly_57:
(110, 53687), (Start: 230 @53504 has 52 MA's), (249, 53474), (366, 53294), (435, 53141), (439, 53129), (452, 53099), (458, 53093), (487, 53030), (489, 53024), (552, 52973), (566, 52946), (569, 52937), (590, 52889), (649, 52784), (694, 52688), (722, 52637), (775, 52493), (787, 52454), (797, 52424), (804, 52397), (810, 52385), (846, 52289), (848, 52283), (851, 52274), (854, 52262), (883, 52190), (900, 52160), (906, 52142), (912, 52133), (939, 52064), (946, 52052), (953, 52031), (992, 51962), (1002, 51947), (1010, 51923), (1013, 51902), (1022, 51884), (1024, 51878), (1038, 51845), (1040, 51839), (1043, 51821), (1047, 51809), (1054, 51797), (1059, 51785), (1078, 51743), (1093, 51713),

Gene: PhillyPhantom_38 Start: 29037, Stop: 27172, Start Num: 301
Candidate Starts for PhillyPhantom_38:
(Start: 301 @29037 has 153 MA's), (Start: 305 @29028 has 5 MA's), (433, 28764), (439, 28749), (442, 28743), (494, 28611), (545, 28557), (582, 28470), (586, 28461), (590, 28449), (606, 28422), (607, 28419), (614, 28404), (618, 28398), (636, 28362), (659, 28317), (768, 28068), (847, 27855), (850, 27846), (851, 27843), (855, 27825), (873, 27783), (889, 27753), (908, 27696), (974, 27537), (989, 27507), (1010, 27438), (1013, 27414), (1028, 27375), (1044, 27330),

Gene: PhineBark_44 Start: 35454, Stop: 33628, Start Num: 228
Candidate Starts for PhineBark_44:
(Start: 228 @35454 has 960 MA's), (366, 35241), (373, 35226), (399, 35178), (410, 35148), (418, 35127), (424, 35121), (430, 35112), (479, 34995), (490, 34968), (570, 34875), (576, 34860), (583, 34839), (621, 34776), (622, 34773), (659, 34707), (680, 34677), (690, 34647), (709, 34602), (729, 34563), (803, 34383), (815, 34353), (821, 34335), (836, 34296), (855, 34230), (900, 34149), (901, 34146), (935, 34065), (1009, 33915), (1010, 33912), (1018, 33876), (1032, 33852), (1035, 33843), (1039, 33831), (1066, 33756), (1079, 33735),

Gene: Phipps_60 Start: 53823, Stop: 51964, Start Num: 190
Candidate Starts for Phipps_60:
(Start: 173 @53847 has 3 MA's), (Start: 190 @53823 has 336 MA's), (Start: 222 @53799 has 3 MA's), (Start: 232 @53793 has 2 MA's), (261, 53751), (274, 53730), (336, 53616), (339, 53610), (355, 53580), (390, 53520), (398, 53499), (416, 53445), (429, 53433), (436, 53415), (440, 53403), (487, 53298), (552, 53241), (569, 53205), (573, 53193), (585, 53166), (601, 53139), (611, 53121), (622, 53103), (643, 53064), (648, 53055), (649, 53052), (761, 52794), (796, 52692), (804, 52659), (812, 52638), (848, 52545), (851, 52536), (877, 52473), (900, 52437), (901, 52434), (906, 52419), (939, 52341), (946, 52329), (953, 52308), (976, 52269), (1013, 52179), (1022, 52161), (1024, 52155), (1032, 52140), (1040, 52116), (1042, 52101), (1043, 52098), (1047, 52086), (1059, 52062), (1082, 52014), (1093, 51990),

Gene: Phireproof_39 Start: 28936, Stop: 27071, Start Num: 301
Candidate Starts for Phireproof_39:
(Start: 241 @29023 has 3 MA's), (Start: 243 @29020 has 1 MA's), (Start: 301 @28936 has 153 MA's), (Start: 305 @28927 has 5 MA's), (353, 28822), (360, 28813), (378, 28783), (380, 28780), (435, 28660), (439, 28648), (442, 28642), (483, 28537), (494, 28510), (582, 28369), (585, 28363), (586, 28360), (590, 28348), (606, 28321), (607, 28318), (614, 28303), (618, 28297), (621, 28291), (638, 28258), (726, 28069), (847, 27754), (850, 27745), (851, 27742), (855, 27724), (873, 27682), (877, 27676), (888, 27652), (908, 27595), (974, 27436), (989, 27406), (992, 27397), (1010, 27337), (1013, 27313), (1028, 27274), (1040, 27241), (1044, 27229), (1068, 27169),

Gene: Phisb_43 Start: 29630, Stop: 31504, Start Num: 217
Candidate Starts for Phisb_43:
(Start: 215 @29627 has 12 MA's), (Start: 217 @29630 has 68 MA's), (Start: 273 @29699 has 1 MA's), (Start: 285 @29720 has 1 MA's), (360, 29837), (399, 29900), (430, 29966), (448, 30008), (626, 30302), (696, 30437), (741, 30536), (784, 30659), (803, 30719), (806, 30725), (823, 30770), (833, 30800), (845, 30836), (855, 30872), (898, 30965), (936, 31058), (973, 31136), (1009, 31208), (1018, 31247), (1038, 31289), (1041, 31307), (1066, 31367), (1079, 31388),

Gene: PhishRPhriends_46 Start: 30931, Stop: 29117, Start Num: 228
Candidate Starts for PhishRPhriends_46:
(Start: 228 @30931 has 960 MA's), (257, 30892), (263, 30880), (360, 30727), (369, 30712), (399, 30655), (424, 30598), (430, 30589), (448, 30547), (465, 30496), (490, 30445), (570, 30352), (590, 30304), (607, 30280), (626, 30241), (643, 30214), (659, 30184), (703, 30091), (709, 30079), (732, 30031), (742, 30016), (803, 29860), (823, 29809), (835, 29776), (836, 29773), (855, 29707), (871, 29668), (901, 29596), (919, 29557), (929, 29533), (935, 29515), (949, 29482), (992, 29401), (1013, 29341), (1022, 29323), (1042, 29263), (1045, 29254), (1066, 29206), (1073, 29194), (1079, 29185),

Gene: Phives_43 Start: 31162, Stop: 33027, Start Num: 228
Candidate Starts for Phives_43:
(Start: 228 @31162 has 960 MA's), (261, 31210), (360, 31366), (410, 31459), (452, 31549), (572, 31756), (622, 31855), (626, 31864), (633, 31879), (643, 31891), (686, 31969), (707, 32017), (733, 32074), (768, 32155), (803, 32275), (815, 32305), (836, 32362), (855, 32428), (898, 32521), (929, 32593), (977, 32701), (1009, 32764), (1066, 32923), (1071, 32932), (1107, 33010),

Gene: Phlei_33 Start: 30919, Stop: 29120, Start Num: 228
Candidate Starts for Phlei_33:
(Start: 228 @30919 has 960 MA's), (304, 30808), (307, 30802), (343, 30745), (360, 30715), (370, 30697), (400, 30637), (410, 30610), (424, 30583), (465, 30481), (490, 30430), (566, 30349), (570, 30337), (583, 30301), (590, 30289), (643, 30199), (682, 30133), (716, 30049), (761, 29971), (762, 29968), (798, 29857), (803, 29836), (823, 29785), (836, 29749), (851, 29701), (855, 29683), (871, 29644), (900, 29602), (915, 29569), (1009, 29368), (1013, 29344), (1018, 29329), (1024, 29320), (1038, 29287), (1066, 29209), (1073, 29197), (1079, 29188), (1100, 29140),

Gene: Phleuron_61 Start: 54187, Stop: 52328, Start Num: 190
Candidate Starts for Phleuron_61:
(Start: 173 @54211 has 3 MA's), (Start: 190 @54187 has 336 MA's), (Start: 222 @54163 has 3 MA's), (Start: 232 @54157 has 2 MA's), (261, 54115), (274, 54094), (336, 53980), (339, 53974), (355, 53944), (390, 53884), (398, 53863), (416, 53809), (429, 53797), (436, 53779), (440, 53767), (487, 53662), (552, 53605), (569, 53569), (573, 53557), (583, 53533), (590, 53521), (601, 53503), (611, 53485), (622, 53467), (643, 53428), (648, 53419), (649, 53416), (651, 53413), (796, 53056), (804, 53023), (812, 53002), (848, 52909), (851, 52900), (877, 52837), (900, 52801), (901, 52798), (906, 52783), (939, 52705), (946, 52693), (953, 52672), (976, 52633), (1013, 52543), (1022, 52525), (1024, 52519), (1032, 52504), (1040, 52480), (1042, 52465), (1043, 52462), (1047, 52450), (1059, 52426), (1082,

52378), (1093, 52354),

Gene: Phlippers_43 Start: 35349, Stop: 33523, Start Num: 228
Candidate Starts for Phlippers_43:
(Start: 228 @35349 has 960 MA's), (366, 35136), (373, 35121), (399, 35073), (410, 35043), (418, 35022), (424, 35016), (430, 35007), (479, 34890), (490, 34863), (570, 34770), (576, 34755), (621, 34671), (622, 34668), (659, 34602), (680, 34572), (690, 34542), (709, 34497), (729, 34458), (803, 34278), (821, 34230), (836, 34191), (855, 34125), (871, 34086), (895, 34065), (900, 34044), (906, 34026), (935, 33960), (1009, 33810), (1010, 33807), (1018, 33771), (1032, 33747), (1035, 33738), (1039, 33726), (1057, 33678), (1066, 33651), (1079, 33630),

Gene: Phlorence_37 Start: 30134, Stop: 28275, Start Num: 228
Candidate Starts for Phlorence_37:
(Start: 228 @30134 has 960 MA's), (263, 30083), (304, 30023), (343, 29960), (360, 29930), (362, 29927), (396, 29870), (399, 29858), (410, 29828), (424, 29801), (490, 29648), (570, 29552), (590, 29504), (606, 29483), (637, 29420), (643, 29414), (685, 29342), (696, 29309), (703, 29294), (709, 29282), (761, 29183), (803, 29048), (815, 29018), (821, 29000), (830, 28982), (836, 28961), (840, 28952), (855, 28895), (871, 28856), (900, 28814), (906, 28796), (929, 28748), (949, 28697), (977, 28643), (982, 28634), (992, 28616), (1013, 28556), (1022, 28538), (1058, 28445), (1066, 28421), (1073, 28409), (1121, 28292), (1122, 28289),

Gene: Phlyer_58 Start: 54386, Stop: 52569, Start Num: 230
Candidate Starts for Phlyer_58:
(110, 54569), (Start: 230 @54386 has 52 MA's), (249, 54356), (366, 54176), (435, 54023), (439, 54011), (452, 53981), (458, 53975), (487, 53912), (489, 53906), (552, 53855), (566, 53828), (569, 53819), (590, 53771), (649, 53666), (694, 53570), (722, 53519), (775, 53375), (787, 53336), (797, 53306), (804, 53279), (810, 53267), (846, 53171), (848, 53165), (851, 53156), (854, 53144), (883, 53072), (900, 53042), (906, 53024), (912, 53015), (939, 52946), (946, 52934), (953, 52913), (992, 52844), (1002, 52829), (1010, 52805), (1013, 52784), (1022, 52766), (1024, 52760), (1038, 52727), (1040, 52721), (1043, 52703), (1047, 52691), (1054, 52679), (1059, 52667), (1078, 52625), (1093, 52595),

Gene: Phoebe_49 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for Phoebe_49:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: Phogo_10 Start: 8637, Stop: 6418, Start Num: 163
Candidate Starts for Phogo_10:
(Start: 163 @8637 has 29 MA's), (247, 8523), (257, 8517), (Start: 285 @8472 has 1 MA's), (316, 8412), (388, 8289), (395, 8274), (402, 8250), (451, 8121), (508, 7974), (511, 7953), (515, 7938), (526, 7878), (556, 7797), (571, 7758), (645, 7653), (714, 7500), (753, 7416), (773, 7359), (778, 7341), (802, 7260), (841, 7146), (844, 7134), (857, 7086), (877, 7008), (879, 6999), (910, 6909), (923, 6885), (935, 6855), (970, 6774), (1019, 6636), (1033, 6600), (1035, 6591), (1053, 6543), (1062, 6516), (1066, 6504), (1073, 6492),

Gene: Phonnegut_45 Start: 31538, Stop: 29745, Start Num: 228
Candidate Starts for Phonnegut_45:

(Start: 228 @31538 has 960 MA's), (235, 31529), (263, 31487), (342, 31367), (343, 31364), (370, 31316), (400, 31256), (411, 31226), (415, 31214), (424, 31202), (490, 31049), (570, 30956), (643, 30818), (659, 30788), (733, 30629), (742, 30617), (764, 30590), (798, 30482), (803, 30461), (851, 30326), (855, 30308), (900, 30227), (919, 30185), (949, 30110), (990, 30035), (1009, 29993), (1042, 29891), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: Phontbonne_45 Start: 31461, Stop: 29635, Start Num: 228
Candidate Starts for Phontbonne_45:
(Start: 228 @31461 has 960 MA's), (Start: 241 @31440 has 3 MA's), (263, 31410), (278, 31380), (384, 31218), (394, 31200), (424, 31128), (430, 31119), (480, 30999), (490, 30975), (570, 30882), (592, 30834), (607, 30813), (626, 30774), (696, 30642), (707, 30621), (729, 30576), (733, 30564), (798, 30411), (803, 30390), (847, 30267), (855, 30237), (871, 30198), (900, 30132), (901, 30129), (906, 30114), (919, 30090), (929, 30066), (1013, 29859), (1066, 29724), (1073, 29712), (1079, 29703),

Gene: Phoxy_48 Start: 31881, Stop: 30067, Start Num: 228
Candidate Starts for Phoxy_48:
(Start: 228 @31881 has 960 MA's), (257, 31842), (263, 31830), (360, 31677), (369, 31662), (399, 31605), (424, 31548), (430, 31539), (448, 31497), (465, 31446), (490, 31395), (552, 31341), (570, 31302), (590, 31254), (607, 31230), (626, 31191), (643, 31164), (659, 31134), (703, 31041), (709, 31029), (732, 30981), (742, 30966), (803, 30810), (823, 30759), (835, 30726), (836, 30723), (855, 30657), (871, 30618), (901, 30546), (919, 30507), (929, 30483), (935, 30465), (949, 30432), (992, 30351), (1013, 30291), (1045, 30204), (1066, 30156), (1073, 30144), (1079, 30135), (1082, 30132),

Gene: Phractured_10 Start: 8346, Stop: 6148, Start Num: 161
Candidate Starts for Phractured_10:
(Start: 161 @8346 has 21 MA's), (235, 8256), (261, 8220), (Start: 285 @8184 has 1 MA's), (299, 8166), (341, 8115), (356, 8085), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (516, 7671), (544, 7578), (571, 7512), (605, 7467), (606, 7464), (654, 7380), (682, 7329), (692, 7296), (714, 7245), (723, 7221), (724, 7218), (753, 7137), (799, 6990), (844, 6852), (857, 6804), (858, 6801), (875, 6729), (880, 6714), (898, 6651), (913, 6621), (1011, 6387), (1013, 6375), (1019, 6357), (1035, 6318), (1036, 6315), (1043, 6285), (1062, 6243), (1064, 6240), (1066, 6231), (1073, 6219),

Gene: Phrampa_92 Start: 80024, Stop: 81826, Start Num: 238
Candidate Starts for Phrampa_92:
(Start: 238 @80024 has 11 MA's), (Start: 255 @80045 has 8 MA's), (274, 80081), (Start: 276 @80087 has 2 MA's), (307, 80135), (317, 80156), (352, 80210), (384, 80255), (390, 80264), (429, 80345), (439, 80372), (442, 80378), (479, 80447), (493, 80483), (570, 80552), (574, 80564), (579, 80576), (613, 80630), (626, 80657), (633, 80672), (729, 80861), (753, 80906), (767, 80930), (769, 80939), (774, 80957), (783, 80990), (798, 81029), (803, 81050), (806, 81056), (845, 81170), (848, 81179), (870, 81254), (879, 81272), (898, 81320), (902, 81332), (919, 81368), (932, 81401), (935, 81410), (953, 81455), (960, 81473), (1002, 81557), (1009, 81578), (1014, 81605), (1041, 81677), (1049, 81701), (1066, 81737), (1094, 81788),

Gene: PhrankReynolds_60 Start: 54191, Stop: 52332, Start Num: 190
Candidate Starts for PhrankReynolds_60:
(Start: 173 @54215 has 3 MA's), (Start: 190 @54191 has 336 MA's), (Start: 222 @54167 has 3 MA's), (Start: 232 @54161 has 2 MA's), (261, 54119), (274, 54098), (336, 53984), (339, 53978), (355, 53948), (390, 53888), (398, 53867), (416, 53813), (429, 53801), (436, 53783), (440, 53771), (487, 53666), (552, 53609), (569, 53573), (573, 53561), (583, 53537), (590, 53525), (601, 53507), (611, 53489), (622, 53471), (643, 53432), (648, 53423), (649, 53420), (651, 53417), (761, 53162), (796, 53060), (804, 53027), (812, 53006), (848, 52913), (851, 52904), (877, 52841), (900, 52805), (901, 52802), (906, 52787), (939, 52709), (946, 52697), (953, 52676), (976, 52637), (1013, 52547), (1022, 52529), (1024, 52523), (1032, 52508), (1040, 52484), (1042, 52469), (1043, 52466), (1047, 52454), (1059,

52430), (1066, 52409), (1082, 52382), (1093, 52358),

Gene: Phrankenstein_36 Start: 28059, Stop: 26275, Start Num: 228
Candidate Starts for Phrankenstein_36:
(Start: 228 @28059 has 960 MA's), (379, 27825), (396, 27795), (398, 27786), (399, 27783), (415, 27738), (424, 27726), (448, 27675), (490, 27573), (498, 27552), (570, 27480), (587, 27435), (590, 27432), (617, 27390), (619, 27384), (626, 27369), (643, 27342), (696, 27237), (701, 27228), (709, 27210), (710, 27207), (729, 27171), (767, 27114), (803, 26991), (821, 26943), (855, 26838), (856, 26835), (895, 26778), (900, 26757), (922, 26709), (951, 26634), (990, 26565), (1009, 26523), (1013, 26499), (1042, 26421), (1066, 26364), (1073, 26352), (1079, 26343), (1094, 26313), (1100, 26295),

Gene: Phranny_49 Start: 31739, Stop: 29925, Start Num: 228
Candidate Starts for Phranny_49:
(Start: 228 @31739 has 960 MA's), (257, 31700), (263, 31688), (360, 31535), (369, 31520), (399, 31463), (424, 31406), (430, 31397), (448, 31355), (465, 31304), (490, 31253), (570, 31160), (590, 31112), (607, 31088), (626, 31049), (643, 31022), (659, 30992), (703, 30899), (709, 30887), (732, 30839), (742, 30824), (803, 30668), (823, 30617), (835, 30584), (836, 30581), (855, 30515), (871, 30476), (901, 30404), (919, 30365), (929, 30341), (935, 30323), (949, 30290), (992, 30209), (1013, 30149), (1022, 30131), (1042, 30071), (1045, 30062), (1066, 30014), (1073, 30002), (1079, 29993),

Gene: PhredFlintston_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for PhredFlintston_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: PhriedRice_10 Start: 8346, Stop: 6148, Start Num: 161
Candidate Starts for PhriedRice_10:
(Start: 161 @8346 has 21 MA's), (235, 8256), (261, 8220), (Start: 285 @8184 has 1 MA's), (299, 8166), (341, 8115), (356, 8085), (402, 7992), (422, 7935), (464, 7827), (482, 7788), (516, 7671), (544, 7578), (548, 7566), (571, 7512), (605, 7467), (606, 7464), (654, 7380), (682, 7329), (692, 7296), (714, 7245), (723, 7221), (724, 7218), (753, 7137), (799, 6990), (844, 6852), (857, 6804), (858, 6801), (875, 6729), (880, 6714), (898, 6651), (913, 6621), (1011, 6387), (1013, 6375), (1019, 6357), (1035, 6318), (1036, 6315), (1043, 6285), (1062, 6243), (1064, 6240), (1066, 6231), (1073, 6219),

Gene: Phriends_39 Start: 28936, Stop: 27071, Start Num: 301
Candidate Starts for Phriends_39:
(Start: 241 @29023 has 3 MA's), (Start: 301 @28936 has 153 MA's), (Start: 305 @28927 has 5 MA's), (353, 28822), (360, 28813), (378, 28783), (380, 28780), (435, 28660), (439, 28648), (442, 28642), (483, 28537), (494, 28510), (582, 28369), (585, 28363), (586, 28360), (590, 28348), (606, 28321), (607, 28318), (614, 28303), (618, 28297), (621, 28291), (638, 28258), (701, 28129), (726, 28069), (847, 27754), (850, 27745), (851, 27742), (855, 27724), (873, 27682), (877, 27676), (879, 27667), (888, 27652), (908, 27595), (974, 27436), (989, 27406), (992, 27397), (1010, 27337), (1013, 27313), (1028, 27274), (1040, 27241), (1044, 27229), (1068, 27169),

Gene: PhrodoBaggins_61 Start: 54411, Stop: 52552, Start Num: 190
Candidate Starts for PhrodoBaggins_61:
(Start: 173 @54435 has 3 MA's), (Start: 190 @54411 has 336 MA's), (Start: 222 @54387 has 3 MA's), (Start: 232 @54381 has 2 MA's), (261, 54339), (274, 54318), (336, 54204), (339, 54198), (355, 54168),

(390, 54108), (398, 54087), (416, 54033), (429, 54021), (436, 54003), (440, 53991), (487, 53886), (552, 53829), (569, 53793), (573, 53781), (585, 53754), (601, 53727), (611, 53709), (622, 53691), (643, 53652), (648, 53643), (649, 53640), (651, 53637), (796, 53280), (804, 53247), (812, 53226), (848, 53133), (851, 53124), (877, 53061), (900, 53025), (901, 53022), (906, 53007), (939, 52929), (946, 52917), (953, 52896), (976, 52857), (1013, 52767), (1022, 52749), (1024, 52743), (1032, 52728), (1040, 52704), (1042, 52689), (1043, 52686), (1047, 52674), (1059, 52650), (1082, 52602), (1093, 52578),

Gene: Phroglets_31 Start: 31286, Stop: 29427, Start Num: 228
Candidate Starts for Phroglets_31:
(Start: 228 @31286 has 960 MA's), (Start: 255 @31253 has 8 MA's), (267, 31229), (Start: 285 @31196 has 1 MA's), (350, 31082), (411, 30962), (427, 30932), (456, 30860), (479, 30803), (499, 30752), (539, 30734), (541, 30731), (543, 30728), (620, 30572), (622, 30566), (623, 30563), (626, 30557), (652, 30512), (664, 30488), (692, 30428), (696, 30419), (700, 30410), (702, 30404), (735, 30323), (768, 30266), (785, 30206), (830, 30065), (843, 30020), (872, 29933), (880, 29915), (921, 29849), (976, 29726), (1018, 29615), (1031, 29594), (1036, 29579), (1038, 29573), (1041, 29555), (1066, 29495),

Gene: PhrostyMug_44 Start: 34431, Stop: 32605, Start Num: 228
Candidate Starts for PhrostyMug_44:
(Start: 228 @34431 has 960 MA's), (366, 34218), (373, 34203), (410, 34125), (418, 34104), (424, 34098), (430, 34089), (479, 33972), (490, 33945), (570, 33852), (576, 33837), (583, 33816), (590, 33804), (621, 33753), (622, 33750), (659, 33684), (680, 33654), (690, 33624), (709, 33579), (729, 33540), (803, 33360), (815, 33330), (821, 33312), (836, 33273), (855, 33207), (900, 33126), (901, 33123), (935, 33042), (1009, 32892), (1010, 32889), (1018, 32853), (1032, 32829), (1035, 32820), (1039, 32808), (1045, 32781), (1066, 32733), (1079, 32712),

Gene: Phunky_59 Start: 54049, Stop: 52190, Start Num: 190
Candidate Starts for Phunky_59:
(Start: 173 @54073 has 3 MA's), (Start: 190 @54049 has 336 MA's), (Start: 222 @54025 has 3 MA's), (Start: 232 @54019 has 2 MA's), (261, 53977), (274, 53956), (336, 53842), (339, 53836), (355, 53806), (390, 53746), (398, 53725), (416, 53671), (429, 53659), (436, 53641), (440, 53629), (487, 53524), (552, 53467), (569, 53431), (573, 53419), (583, 53395), (590, 53383), (601, 53365), (611, 53347), (622, 53329), (643, 53290), (648, 53281), (649, 53278), (651, 53275), (796, 52918), (804, 52885), (812, 52864), (848, 52771), (851, 52762), (877, 52699), (900, 52663), (901, 52660), (906, 52645), (939, 52567), (946, 52555), (953, 52534), (976, 52495), (1013, 52405), (1022, 52387), (1024, 52381), (1032, 52366), (1040, 52342), (1042, 52327), (1043, 52324), (1047, 52312), (1059, 52288), (1082, 52240), (1093, 52216),

Gene: PickleBack_38 Start: 30260, Stop: 28416, Start Num: 228
Candidate Starts for PickleBack_38:
(Start: 228 @30260 has 960 MA's), (263, 30209), (304, 30149), (343, 30086), (360, 30056), (362, 30053), (396, 29996), (399, 29984), (410, 29954), (424, 29927), (465, 29825), (473, 29810), (490, 29774), (556, 29714), (570, 29678), (590, 29630), (637, 29546), (643, 29540), (685, 29468), (696, 29435), (703, 29420), (709, 29408), (761, 29309), (803, 29174), (815, 29144), (821, 29126), (823, 29123), (836, 29087), (840, 29078), (845, 29057), (848, 29048), (855, 29021), (856, 29018), (895, 28961), (900, 28940), (949, 28823), (977, 28769), (982, 28760), (992, 28742), (1022, 28664), (1041, 28607), (1058, 28571), (1066, 28547), (1073, 28535),

Gene: PigHeaded_40 Start: 32631, Stop: 30790, Start Num: 277
Candidate Starts for PigHeaded_40:
(198, 32733), (207, 32721), (253, 32670), (Start: 277 @32631 has 1 MA's), (344, 32511), (348, 32505), (419, 32349), (434, 32334), (456, 32298), (500, 32199), (536, 32190), (539, 32184), (556, 32163), (563, 32148), (585, 32091), (617, 32037), (626, 32004), (735, 31779), (744, 31761), (785, 31650),

(812, 31569), (872, 31377), (921, 31293), (933, 31260), (935, 31254), (1018, 31059), (1036, 31017), (1038, 31011), (1049, 30969), (1064, 30942), (1066, 30933), (1085, 30900), (1102, 30855), (1118, 30804), (1120, 30795),

Gene: Piglet_0060 Start: 54547, Stop: 52664, Start Num: 173
Candidate Starts for Piglet_0060:
(Start: 173 @54547 has 3 MA's), (Start: 190 @54523 has 336 MA's), (Start: 222 @54499 has 3 MA's), (Start: 232 @54493 has 2 MA's), (261, 54451), (274, 54430), (336, 54316), (339, 54310), (355, 54280), (390, 54220), (398, 54199), (416, 54145), (429, 54133), (436, 54115), (440, 54103), (487, 53998), (552, 53941), (569, 53905), (573, 53893), (585, 53866), (601, 53839), (611, 53821), (622, 53803), (643, 53764), (648, 53755), (649, 53752), (761, 53494), (796, 53392), (804, 53359), (812, 53338), (848, 53245), (851, 53236), (877, 53173), (900, 53137), (901, 53134), (906, 53119), (939, 53041), (946, 53029), (953, 53008), (976, 52969), (1013, 52879), (1022, 52861), (1024, 52855), (1032, 52840), (1040, 52816), (1042, 52801), (1043, 52798), (1047, 52786), (1059, 52762), (1082, 52714), (1093, 52690),

Gene: Pikmin_35 Start: 27722, Stop: 25905, Start Num: 298
Candidate Starts for Pikmin_35:
(Start: 298 @27722 has 15 MA's), (307, 27707), (439, 27431), (442, 27425), (545, 27290), (554, 27275), (585, 27197), (586, 27194), (590, 27182), (607, 27152), (636, 27095), (706, 26948), (777, 26768), (833, 26630), (850, 26579), (851, 26576), (855, 26558), (856, 26555), (873, 26516), (908, 26429), (917, 26402), (974, 26270), (1013, 26147), (1025, 26114), (1028, 26108), (1033, 26099), (1068, 26003), (1072, 25997),

Gene: Pine5_49 Start: 43969, Stop: 42167, Start Num: 221
Candidate Starts for Pine5_49:
(Start: 221 @43969 has 14 MA's), (261, 43918), (369, 43756), (416, 43642), (430, 43627), (440, 43603), (442, 43600), (447, 43591), (452, 43576), (457, 43573), (465, 43549), (467, 43543), (472, 43537), (474, 43531), (482, 43519), (489, 43501), (490, 43498), (632, 43291), (640, 43279), (649, 43261), (664, 43231), (673, 43216), (685, 43195), (722, 43120), (750, 43036), (758, 43027), (812, 42856), (838, 42799), (851, 42754), (919, 42613), (939, 42559), (946, 42547), (1000, 42436), (1040, 42322), (1042, 42307), (1059, 42268), (1066, 42247), (1100, 42172),

Gene: PineapplePluto_12 Start: 8973, Stop: 6724, Start Num: 161
Candidate Starts for PineapplePluto_12:
(Start: 161 @8973 has 21 MA's), (291, 8796), (316, 8751), (388, 8619), (395, 8604), (442, 8472), (451, 8451), (508, 8304), (511, 8283), (517, 8253), (556, 8127), (571, 8088), (645, 7983), (692, 7881), (714, 7830), (723, 7806), (724, 7803), (753, 7722), (778, 7647), (841, 7452), (844, 7440), (857, 7392), (862, 7359), (877, 7314), (879, 7305), (910, 7215), (923, 7191), (970, 7080), (1019, 6942), (1032, 6909), (1035, 6897), (1062, 6822), (1064, 6819), (1066, 6810), (1073, 6798), (1090, 6759),

Gene: PinheadLarry_61 Start: 54548, Stop: 52689, Start Num: 190
Candidate Starts for PinheadLarry_61:
(Start: 173 @54572 has 3 MA's), (Start: 190 @54548 has 336 MA's), (Start: 222 @54524 has 3 MA's), (Start: 232 @54518 has 2 MA's), (261, 54476), (274, 54455), (336, 54341), (339, 54335), (355, 54305), (390, 54245), (398, 54224), (416, 54170), (429, 54158), (436, 54140), (440, 54128), (487, 54023), (552, 53966), (569, 53930), (573, 53918), (585, 53891), (601, 53864), (611, 53846), (622, 53828), (643, 53789), (648, 53780), (649, 53777), (761, 53519), (796, 53417), (804, 53384), (812, 53363), (848, 53270), (851, 53261), (877, 53198), (900, 53162), (901, 53159), (906, 53144), (939, 53066), (946, 53054), (953, 53033), (976, 52994), (1013, 52904), (1022, 52886), (1024, 52880), (1032, 52865), (1040, 52841), (1042, 52826), (1043, 52823), (1047, 52811), (1059, 52787), (1082, 52739), (1093, 52715),

Gene: PinkPlastic_43 Start: 34151, Stop: 32325, Start Num: 228
Candidate Starts for PinkPlastic_43:
(Start: 228 @34151 has 960 MA's), (366, 33938), (373, 33923), (399, 33875), (410, 33845), (418, 33824), (424, 33818), (430, 33809), (448, 33767), (479, 33692), (490, 33665), (570, 33572), (576, 33557), (590, 33524), (621, 33473), (622, 33470), (659, 33404), (680, 33374), (690, 33344), (709, 33299), (729, 33260), (803, 33080), (821, 33032), (836, 32993), (855, 32927), (871, 32888), (895, 32867), (900, 32846), (906, 32828), (935, 32762), (1009, 32612), (1010, 32609), (1018, 32573), (1035, 32540), (1039, 32528), (1045, 32501), (1066, 32453), (1079, 32432),

Gene: Pinkman_60 Start: 54129, Stop: 52270, Start Num: 190
Candidate Starts for Pinkman_60:
(Start: 173 @54153 has 3 MA's), (Start: 190 @54129 has 336 MA's), (Start: 222 @54105 has 3 MA's), (Start: 232 @54099 has 2 MA's), (261, 54057), (274, 54036), (336, 53922), (339, 53916), (355, 53886), (390, 53826), (398, 53805), (416, 53751), (429, 53739), (436, 53721), (440, 53709), (487, 53604), (552, 53547), (569, 53511), (573, 53499), (585, 53472), (611, 53427), (643, 53370), (648, 53361), (649, 53358), (761, 53100), (796, 52998), (804, 52965), (812, 52944), (848, 52851), (851, 52842), (877, 52779), (900, 52743), (901, 52740), (906, 52725), (939, 52647), (946, 52635), (953, 52614), (976, 52575), (1013, 52485), (1022, 52467), (1024, 52461), (1032, 52446), (1040, 52422), (1042, 52407), (1043, 52404), (1047, 52392), (1059, 52368), (1066, 52347), (1082, 52320), (1093, 52296), (1098, 52281),

Gene: Pinto_45 Start: 34258, Stop: 32429, Start Num: 228
Candidate Starts for Pinto_45:
(Start: 228 @34258 has 960 MA's), (366, 34045), (373, 34030), (399, 33982), (410, 33952), (418, 33931), (424, 33925), (430, 33916), (479, 33799), (490, 33772), (570, 33679), (576, 33664), (590, 33631), (621, 33580), (622, 33577), (654, 33523), (659, 33511), (680, 33481), (690, 33451), (709, 33406), (729, 33367), (803, 33187), (821, 33139), (840, 33091), (851, 33052), (855, 33034), (871, 32995), (895, 32974), (900, 32953), (905, 32938), (955, 32815), (1036, 32644), (1041, 32620), (1062, 32572), (1066, 32560), (1079, 32539), (1083, 32533), (1102, 32485), (1109, 32470),

Gene: Pioneer_45 Start: 31538, Stop: 29745, Start Num: 228
Candidate Starts for Pioneer_45:
(Start: 228 @31538 has 960 MA's), (235, 31529), (263, 31487), (342, 31367), (343, 31364), (370, 31316), (400, 31256), (411, 31226), (415, 31214), (424, 31202), (490, 31049), (570, 30956), (643, 30818), (659, 30788), (733, 30629), (742, 30617), (764, 30590), (798, 30482), (803, 30461), (851, 30326), (855, 30308), (900, 30227), (919, 30185), (949, 30110), (990, 30035), (1009, 29993), (1042, 29891), (1066, 29834), (1073, 29822), (1079, 29813),

Gene: Pipcraft_43 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Pipcraft_43:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Pipefish_59 Start: 54415, Stop: 52598, Start Num: 230
Candidate Starts for Pipefish_59:
(110, 54598), (Start: 230 @54415 has 52 MA's), (249, 54385), (366, 54205), (435, 54052), (439, 54040), (452, 54010), (458, 54004), (487, 53941), (489, 53935), (552, 53884), (569, 53848), (590, 53800), (649, 53695), (694, 53599), (722, 53548), (775, 53404), (787, 53365), (797, 53335), (804, 53308), (810, 53296), (846, 53200), (848, 53194), (851, 53185), (854, 53173), (883, 53101), (900, 53071), (906, 53053), (912, 53044), (939, 52975), (946, 52963), (953, 52942), (992, 52873), (1002,

52858), (1010, 52834), (1024, 52789), (1038, 52756), (1040, 52750), (1043, 52732), (1047, 52720), (1054, 52708), (1059, 52696), (1078, 52654), (1093, 52624),

Gene: Pippin_47 Start: 35168, Stop: 33381, Start Num: 228
Candidate Starts for Pippin_47:
(Start: 228 @35168 has 960 MA's), (366, 34955), (373, 34940), (399, 34892), (410, 34862), (418, 34841), (424, 34835), (430, 34826), (479, 34709), (490, 34682), (570, 34589), (576, 34574), (590, 34541), (621, 34490), (622, 34487), (659, 34421), (680, 34391), (690, 34361), (709, 34316), (729, 34277), (803, 34097), (821, 34049), (836, 34010), (855, 33944), (897, 33872), (900, 33863), (935, 33779), (977, 33692), (1032, 33566), (1036, 33554), (1066, 33470), (1069, 33464),

Gene: Pipsqueak_59 Start: 53979, Stop: 52120, Start Num: 190
Candidate Starts for Pipsqueak_59:
(Start: 173 @54003 has 3 MA's), (Start: 190 @53979 has 336 MA's), (Start: 222 @53955 has 3 MA's), (Start: 232 @53949 has 2 MA's), (261, 53907), (274, 53886), (336, 53772), (339, 53766), (355, 53736), (390, 53676), (398, 53655), (416, 53601), (429, 53589), (436, 53571), (440, 53559), (487, 53454), (552, 53397), (569, 53361), (573, 53349), (583, 53325), (590, 53313), (601, 53295), (611, 53277), (622, 53259), (643, 53220), (648, 53211), (649, 53208), (651, 53205), (796, 52848), (804, 52815), (812, 52794), (848, 52701), (851, 52692), (877, 52629), (900, 52593), (901, 52590), (906, 52575), (939, 52497), (946, 52485), (953, 52464), (976, 52425), (1013, 52335), (1022, 52317), (1024, 52311), (1032, 52296), (1040, 52272), (1042, 52257), (1043, 52254), (1047, 52242), (1059, 52218), (1082, 52170), (1093, 52146),

Gene: Piro94_44 Start: 31722, Stop: 29935, Start Num: 228
Candidate Starts for Piro94_44:
(Start: 228 @31722 has 960 MA's), (360, 31518), (362, 31515), (366, 31509), (384, 31479), (399, 31446), (400, 31443), (410, 31416), (424, 31389), (448, 31338), (490, 31236), (570, 31143), (590, 31095), (595, 31086), (607, 31071), (643, 31005), (686, 30924), (707, 30876), (778, 30732), (803, 30651), (823, 30600), (835, 30567), (855, 30498), (871, 30459), (895, 30438), (900, 30417), (904, 30405), (990, 30225), (992, 30219), (1009, 30183), (1013, 30159), (1042, 30081), (1066, 30024), (1073, 30012),

Gene: Pistachio_47 Start: 31102, Stop: 29264, Start Num: 228
Candidate Starts for Pistachio_47:
(Start: 228 @31102 has 960 MA's), (263, 31051), (307, 30985), (360, 30898), (396, 30838), (399, 30826), (424, 30769), (430, 30760), (480, 30640), (490, 30616), (570, 30520), (592, 30472), (626, 30412), (663, 30349), (696, 30280), (707, 30259), (744, 30187), (767, 30145), (778, 30103), (803, 30022), (821, 29974), (847, 29899), (855, 29869), (869, 29839), (901, 29758), (919, 29719), (929, 29695), (935, 29677), (992, 29548), (1013, 29488), (1066, 29353), (1073, 29341), (1079, 29332),

Gene: Pita2_47 Start: 35444, Stop: 33618, Start Num: 228
Candidate Starts for Pita2_47:
(Start: 228 @35444 has 960 MA's), (366, 35231), (373, 35216), (399, 35168), (410, 35138), (418, 35117), (424, 35111), (430, 35102), (479, 34985), (490, 34958), (570, 34865), (576, 34850), (583, 34829), (621, 34766), (622, 34763), (659, 34697), (680, 34667), (690, 34637), (709, 34592), (729, 34553), (803, 34373), (815, 34343), (821, 34325), (823, 34322), (836, 34286), (855, 34220), (871, 34181), (895, 34160), (900, 34139), (906, 34121), (935, 34055), (1009, 33905), (1010, 33902), (1018, 33866), (1035, 33833), (1039, 33821), (1066, 33746), (1079, 33725),

Gene: Pixelle_41 Start: 30386, Stop: 32251, Start Num: 228
Candidate Starts for Pixelle_41:
(Start: 228 @30386 has 960 MA's), (261, 30434), (383, 30617), (386, 30623), (410, 30683), (452, 30773), (572, 30980), (576, 30989), (626, 31088), (633, 31103), (707, 31241), (768, 31379), (795,

31466), (803, 31499), (828, 31562), (836, 31586), (855, 31652), (898, 31745), (977, 31925), (1009, 31988), (1013, 32012), (1066, 32147), (1071, 32156),

Gene: Placalicious_61 Start: 55080, Stop: 53221, Start Num: 190
Candidate Starts for Placalicious_61:
(Start: 173 @55104 has 3 MA's), (Start: 190 @55080 has 336 MA's), (Start: 222 @55056 has 3 MA's), (Start: 232 @55050 has 2 MA's), (261, 55008), (274, 54987), (336, 54873), (339, 54867), (355, 54837), (390, 54777), (398, 54756), (416, 54702), (429, 54690), (436, 54672), (487, 54555), (552, 54498), (569, 54462), (573, 54450), (585, 54423), (601, 54396), (611, 54378), (622, 54360), (643, 54321), (648, 54312), (649, 54309), (761, 54051), (796, 53949), (804, 53916), (812, 53895), (848, 53802), (851, 53793), (877, 53730), (900, 53694), (901, 53691), (906, 53676), (939, 53598), (946, 53586), (953, 53565), (976, 53526), (1013, 53436), (1022, 53418), (1024, 53412), (1032, 53397), (1040, 53373), (1042, 53358), (1043, 53355), (1047, 53343), (1059, 53319), (1082, 53271), (1093, 53247),

Gene: Plata_61 Start: 54281, Stop: 52422, Start Num: 190
Candidate Starts for Plata_61:
(Start: 173 @54305 has 3 MA's), (Start: 190 @54281 has 336 MA's), (Start: 222 @54257 has 3 MA's), (Start: 232 @54251 has 2 MA's), (261, 54209), (274, 54188), (336, 54074), (339, 54068), (355, 54038), (390, 53978), (398, 53957), (416, 53903), (429, 53891), (436, 53873), (440, 53861), (487, 53756), (552, 53699), (569, 53663), (573, 53651), (583, 53627), (590, 53615), (601, 53597), (611, 53579), (622, 53561), (643, 53522), (648, 53513), (649, 53510), (651, 53507), (796, 53150), (804, 53117), (812, 53096), (848, 53003), (851, 52994), (877, 52931), (900, 52895), (901, 52892), (906, 52877), (939, 52799), (946, 52787), (953, 52766), (976, 52727), (1013, 52637), (1022, 52619), (1024, 52613), (1032, 52598), (1040, 52574), (1042, 52559), (1043, 52556), (1047, 52544), (1059, 52520), (1066, 52499), (1082, 52472), (1093, 52448), (1098, 52433),

Gene: Plmatters_59 Start: 54053, Stop: 52194, Start Num: 190
Candidate Starts for Plmatters_59:
(Start: 173 @54077 has 3 MA's), (Start: 190 @54053 has 336 MA's), (Start: 222 @54029 has 3 MA's), (Start: 232 @54023 has 2 MA's), (261, 53981), (274, 53960), (336, 53846), (339, 53840), (355, 53810), (390, 53750), (398, 53729), (416, 53675), (429, 53663), (436, 53645), (440, 53633), (487, 53528), (552, 53471), (569, 53435), (573, 53423), (585, 53396), (601, 53369), (611, 53351), (622, 53333), (643, 53294), (648, 53285), (649, 53282), (761, 53024), (796, 52922), (804, 52889), (812, 52868), (848, 52775), (851, 52766), (877, 52703), (900, 52667), (901, 52664), (906, 52649), (939, 52571), (946, 52559), (953, 52538), (976, 52499), (1013, 52409), (1022, 52391), (1024, 52385), (1032, 52370), (1040, 52346), (1042, 52331), (1043, 52328), (1047, 52316), (1059, 52292), (1082, 52244), (1093, 52220),

Gene: Pmask_45 Start: 29639, Stop: 27798, Start Num: 228
Candidate Starts for Pmask_45:
(Start: 228 @29639 has 960 MA's), (360, 29435), (399, 29360), (400, 29357), (410, 29330), (415, 29315), (424, 29303), (448, 29252), (485, 29162), (490, 29150), (570, 29057), (585, 29018), (595, 29000), (607, 28985), (643, 28919), (660, 28886), (663, 28883), (710, 28781), (742, 28721), (778, 28637), (803, 28556), (835, 28472), (836, 28469), (840, 28460), (847, 28433), (855, 28403), (895, 28343), (906, 28304), (1009, 28088), (1010, 28085), (1013, 28064), (1066, 27929), (1073, 27917), (1079, 27908), (1082, 27905), (1115, 27812),

Gene: Pocahontas_44 Start: 31594, Stop: 29756, Start Num: 228
Candidate Starts for Pocahontas_44:
(Start: 228 @31594 has 960 MA's), (263, 31543), (360, 31390), (399, 31318), (410, 31288), (424, 31261), (430, 31252), (490, 31108), (570, 31012), (592, 30964), (626, 30904), (681, 30817), (696, 30772), (707, 30751), (744, 30679), (767, 30637), (778, 30595), (803, 30514), (821, 30466), (836, 30427), (847, 30391), (855, 30361), (869, 30331), (901, 30250), (919, 30211), (929, 30187), (935,

30169), (936, 30166), (992, 30040), (1013, 29980), (1045, 29893), (1066, 29845), (1073, 29833), (1079, 29824),

Gene: Pocket_38 Start: 28623, Stop: 26758, Start Num: 301
Candidate Starts for Pocket_38:
(Start: 241 @28710 has 3 MA's), (Start: 301 @28623 has 153 MA's), (Start: 305 @28614 has 5 MA's), (353, 28509), (360, 28500), (378, 28470), (380, 28467), (435, 28347), (439, 28335), (442, 28329), (483, 28224), (494, 28197), (582, 28056), (585, 28050), (586, 28047), (590, 28035), (606, 28008), (607, 28005), (614, 27990), (618, 27984), (621, 27978), (638, 27945), (701, 27816), (726, 27756), (847, 27441), (850, 27432), (851, 27429), (855, 27411), (873, 27369), (877, 27363), (888, 27339), (908, 27282), (974, 27123), (989, 27093), (992, 27084), (1010, 27024), (1013, 27000), (1028, 26961), (1040, 26928), (1044, 26916), (1068, 26856),

Gene: Podrick_59 Start: 53832, Stop: 51973, Start Num: 190
Candidate Starts for Podrick_59:
(Start: 173 @53856 has 3 MA's), (Start: 190 @53832 has 336 MA's), (Start: 222 @53808 has 3 MA's), (Start: 232 @53802 has 2 MA's), (261, 53760), (274, 53739), (336, 53625), (339, 53619), (355, 53589), (390, 53529), (398, 53508), (416, 53454), (429, 53442), (436, 53424), (440, 53412), (487, 53307), (552, 53250), (569, 53214), (573, 53202), (585, 53175), (601, 53148), (611, 53130), (622, 53112), (643, 53073), (648, 53064), (649, 53061), (761, 52803), (796, 52701), (804, 52668), (812, 52647), (848, 52554), (851, 52545), (877, 52482), (900, 52446), (901, 52443), (906, 52428), (939, 52350), (946, 52338), (953, 52317), (976, 52278), (1013, 52188), (1022, 52170), (1024, 52164), (1032, 52149), (1040, 52125), (1042, 52110), (1043, 52107), (1047, 52095), (1059, 52071), (1082, 52023), (1093, 51999),

Gene: Polymorphads_46 Start: 31563, Stop: 29737, Start Num: 228
Candidate Starts for Polymorphads_46:
(Start: 228 @31563 has 960 MA's), (Start: 241 @31542 has 3 MA's), (263, 31512), (278, 31482), (384, 31320), (394, 31302), (424, 31230), (430, 31221), (480, 31101), (490, 31077), (570, 30984), (592, 30936), (607, 30915), (626, 30876), (696, 30744), (707, 30723), (729, 30678), (733, 30666), (798, 30513), (803, 30492), (847, 30369), (855, 30339), (871, 30300), (900, 30234), (901, 30231), (906, 30216), (919, 30192), (929, 30168), (1013, 29961), (1066, 29826), (1073, 29814), (1079, 29805),

Gene: Polyphemus_46 Start: 29782, Stop: 27941, Start Num: 228
Candidate Starts for Polyphemus_46:
(Start: 228 @29782 has 960 MA's), (360, 29578), (399, 29503), (400, 29500), (410, 29473), (415, 29458), (424, 29446), (448, 29395), (485, 29305), (490, 29293), (570, 29200), (585, 29161), (595, 29143), (607, 29128), (643, 29062), (660, 29029), (663, 29026), (710, 28924), (742, 28864), (778, 28780), (803, 28699), (835, 28615), (836, 28612), (840, 28603), (847, 28576), (855, 28546), (895, 28486), (906, 28447), (1009, 28231), (1010, 28228), (1013, 28207), (1066, 28072), (1073, 28060), (1079, 28051), (1082, 28048), (1115, 27955),

Gene: Pomar16_47 Start: 31194, Stop: 29371, Start Num: 228
Candidate Starts for Pomar16_47:
(Start: 228 @31194 has 960 MA's), (360, 30990), (373, 30966), (384, 30948), (394, 30930), (399, 30915), (400, 30912), (410, 30885), (424, 30858), (448, 30807), (490, 30705), (570, 30612), (590, 30564), (595, 30555), (606, 30543), (607, 30540), (643, 30474), (680, 30414), (729, 30300), (742, 30276), (766, 30237), (803, 30111), (823, 30060), (836, 30024), (855, 29958), (871, 29919), (901, 29850), (919, 29811), (936, 29766), (949, 29736), (982, 29673), (990, 29661), (992, 29655), (1013, 29595), (1066, 29460), (1073, 29448), (1079, 29439),

Gene: PondAmelia_44 Start: 30450, Stop: 32324, Start Num: 217
Candidate Starts for PondAmelia_44:

(Start: 217 @30450 has 68 MA's), (Start: 273 @30519 has 1 MA's), (Start: 285 @30540 has 1 MA's), (399, 30720), (430, 30786), (436, 30801), (448, 30828), (583, 31044), (626, 31122), (741, 31356), (783, 31476), (784, 31479), (803, 31539), (806, 31545), (823, 31590), (830, 31605), (833, 31620), (845, 31656), (855, 31692), (898, 31785), (936, 31878), (973, 31956), (975, 31959), (1009, 32028), (1010, 32031), (1013, 32052), (1018, 32067), (1038, 32109), (1041, 32127), (1066, 32187), (1079, 32208),

Gene: Ponzi_14 Start: 9802, Stop: 8006, Start Num: 228
Candidate Starts for Ponzi_14:
(Start: 228 @9802 has 960 MA's), (410, 9493), (490, 9313), (556, 9253), (570, 9220), (587, 9175), (590, 9172), (626, 9103), (637, 9082), (703, 8956), (736, 8905), (767, 8857), (793, 8776), (803, 8734), (826, 8671), (830, 8665), (834, 8647), (837, 8641), (843, 8620), (851, 8596), (855, 8578), (856, 8575), (888, 8518), (900, 8497), (906, 8479), (921, 8452), (1024, 8215), (1036, 8188), (1059, 8125), (1066, 8104), (1079, 8083), (1100, 8035),

Gene: Poompha_43 Start: 30385, Stop: 28553, Start Num: 228
Candidate Starts for Poompha_43:
(Start: 228 @30385 has 960 MA's), (263, 30334), (307, 30268), (360, 30181), (366, 30172), (396, 30121), (399, 30109), (424, 30052), (458, 29971), (462, 29959), (465, 29950), (480, 29923), (490, 29899), (570, 29806), (626, 29698), (643, 29671), (709, 29539), (803, 29311), (830, 29245), (847, 29188), (855, 29158), (871, 29119), (901, 29047), (906, 29032), (919, 29008), (935, 28966), (949, 28933), (1013, 28777), (1024, 28753), (1045, 28690), (1066, 28642), (1073, 28630), (1079, 28621),

Gene: Popcicle_44 Start: 31594, Stop: 29756, Start Num: 228
Candidate Starts for Popcicle_44:
(Start: 228 @31594 has 960 MA's), (263, 31543), (360, 31390), (399, 31318), (410, 31288), (424, 31261), (430, 31252), (490, 31108), (570, 31012), (592, 30964), (626, 30904), (681, 30817), (696, 30772), (707, 30751), (744, 30679), (767, 30637), (778, 30595), (803, 30514), (821, 30466), (836, 30427), (847, 30391), (855, 30361), (869, 30331), (901, 30250), (919, 30211), (929, 30187), (935, 30169), (936, 30166), (992, 30040), (1013, 29980), (1045, 29893), (1066, 29845), (1073, 29833), (1079, 29824),

Gene: Pops_60 Start: 54238, Stop: 52379, Start Num: 190
Candidate Starts for Pops_60:
(Start: 173 @54262 has 3 MA's), (Start: 190 @54238 has 336 MA's), (Start: 222 @54214 has 3 MA's), (Start: 232 @54208 has 2 MA's), (261, 54166), (274, 54145), (336, 54031), (339, 54025), (355, 53995), (390, 53935), (398, 53914), (416, 53860), (429, 53848), (436, 53830), (440, 53818), (487, 53713), (552, 53656), (569, 53620), (573, 53608), (583, 53584), (590, 53572), (601, 53554), (611, 53536), (622, 53518), (643, 53479), (648, 53470), (649, 53467), (651, 53464), (796, 53107), (804, 53074), (812, 53053), (848, 52960), (851, 52951), (877, 52888), (900, 52852), (901, 52849), (906, 52834), (939, 52756), (946, 52744), (953, 52723), (976, 52684), (1013, 52594), (1022, 52576), (1024, 52570), (1032, 52555), (1040, 52531), (1042, 52516), (1043, 52513), (1047, 52501), (1059, 52477), (1082, 52429), (1093, 52405),

Gene: PorkBelly_46 Start: 35155, Stop: 33269, Start Num: 163
Candidate Starts for PorkBelly_46:
(Start: 163 @35155 has 29 MA's), (209, 35101), (235, 35074), (Start: 255 @35047 has 8 MA's), (320, 34948), (363, 34897), (389, 34846), (474, 34648), (485, 34627), (516, 34528), (518, 34513), (524, 34489), (525, 34486), (539, 34453), (547, 34435), (551, 34426), (574, 34369), (651, 34297), (660, 34276), (682, 34240), (687, 34222), (711, 34165), (738, 34087), (760, 34036), (765, 34027), (773, 34006), (780, 33976), (794, 33943), (816, 33892), (818, 33880), (839, 33826), (844, 33808), (857, 33769), (869, 33718), (881, 33676), (893, 33646), (896, 33637), (955, 33487), (962, 33475), (972, 33460), (990, 33412), (992, 33406), (1003, 33388), (1013, 33349), (1027, 33313),

Gene: Poster_52 Start: 52989, Stop: 51166, Start Num: 182
Candidate Starts for Poster_52:
(Start: 163 @53007 has 29 MA's), (Start: 182 @52989 has 33 MA's), (Start: 232 @52965 has 2 MA's), (249, 52938), (261, 52923), (274, 52902), (324, 52815), (386, 52710), (402, 52668), (436, 52602), (449, 52572), (452, 52563), (457, 52560), (458, 52557), (467, 52530), (552, 52437), (560, 52419), (569, 52401), (573, 52389), (580, 52374), (585, 52362), (648, 52251), (649, 52248), (664, 52218), (685, 52182), (775, 51957), (776, 51954), (787, 51918), (796, 51894), (804, 51861), (846, 51753), (848, 51747), (850, 51741), (851, 51738), (900, 51639), (901, 51636), (906, 51621), (939, 51543), (946, 51531), (953, 51510), (955, 51501), (976, 51471), (990, 51447), (1007, 51414), (1013, 51381), (1022, 51363), (1024, 51357), (1040, 51318), (1043, 51300), (1047, 51288), (1059, 51264), (1078, 51222), (1082, 51216), (1093, 51192),

Gene: PotatoSplit_50 Start: 31856, Stop: 30042, Start Num: 228
Candidate Starts for PotatoSplit_50:
(Start: 228 @31856 has 960 MA's), (257, 31817), (263, 31805), (360, 31652), (369, 31637), (399, 31580), (424, 31523), (430, 31514), (448, 31472), (465, 31421), (490, 31370), (570, 31277), (590, 31229), (595, 31220), (607, 31205), (626, 31166), (643, 31139), (659, 31109), (703, 31016), (732, 30956), (742, 30941), (803, 30785), (836, 30698), (855, 30632), (871, 30593), (901, 30521), (919, 30482), (929, 30458), (935, 30440), (949, 30407), (958, 30380), (992, 30326), (1013, 30266), (1042, 30188), (1066, 30131), (1073, 30119), (1079, 30110),

Gene: Potter_59 Start: 54044, Stop: 52185, Start Num: 190
Candidate Starts for Potter_59:
(Start: 173 @54068 has 3 MA's), (Start: 190 @54044 has 336 MA's), (Start: 222 @54020 has 3 MA's), (Start: 232 @54014 has 2 MA's), (261, 53972), (274, 53951), (336, 53837), (339, 53831), (355, 53801), (390, 53741), (398, 53720), (416, 53666), (429, 53654), (436, 53636), (440, 53624), (487, 53519), (552, 53462), (569, 53426), (573, 53414), (585, 53387), (611, 53342), (643, 53285), (648, 53276), (649, 53273), (796, 52913), (804, 52880), (812, 52859), (848, 52766), (851, 52757), (877, 52694), (900, 52658), (901, 52655), (906, 52640), (939, 52562), (946, 52550), (953, 52529), (976, 52490), (1013, 52400), (1022, 52382), (1024, 52376), (1032, 52361), (1040, 52337), (1042, 52322), (1043, 52319), (1047, 52307), (1059, 52283), (1082, 52235), (1093, 52211),

Gene: Power_43 Start: 31319, Stop: 29532, Start Num: 228
Candidate Starts for Power_43:
(84, 31574), (Start: 228 @31319 has 960 MA's), (360, 31115), (362, 31112), (366, 31106), (375, 31091), (384, 31076), (399, 31043), (400, 31040), (410, 31013), (424, 30986), (435, 30965), (448, 30935), (490, 30833), (493, 30824), (570, 30740), (590, 30692), (595, 30683), (607, 30668), (643, 30602), (686, 30521), (707, 30473), (709, 30467), (742, 30404), (778, 30329), (803, 30248), (823, 30197), (835, 30164), (836, 30161), (855, 30095), (871, 30056), (895, 30035), (935, 29930), (949, 29897), (958, 29870), (982, 29834), (990, 29822), (992, 29816), (1009, 29780), (1013, 29756), (1042, 29678), (1066, 29621), (1073, 29609), (1079, 29600),

Gene: PowerRanger_45 Start: 35483, Stop: 33657, Start Num: 228
Candidate Starts for PowerRanger_45:
(Start: 228 @35483 has 960 MA's), (366, 35270), (373, 35255), (399, 35207), (410, 35177), (418, 35156), (424, 35150), (430, 35141), (479, 35024), (490, 34997), (570, 34904), (576, 34889), (621, 34805), (622, 34802), (659, 34736), (680, 34706), (690, 34676), (709, 34631), (729, 34592), (803, 34412), (821, 34364), (836, 34325), (855, 34259), (871, 34220), (895, 34199), (900, 34178), (906, 34160), (935, 34094), (1009, 33944), (1010, 33941), (1018, 33905), (1032, 33881), (1039, 33860), (1045, 33833), (1066, 33785), (1079, 33764),

Gene: Powerpuff_43 Start: 30792, Stop: 32657, Start Num: 228

Candidate Starts for Powerpuff_43:
(Start: 228 @30792 has 960 MA's), (261, 30840), (410, 31089), (452, 31179), (572, 31386), (576, 31395), (622, 31485), (626, 31494), (633, 31509), (660, 31554), (686, 31599), (707, 31647), (733, 31704), (768, 31785), (795, 31872), (803, 31905), (815, 31935), (836, 31992), (855, 32058), (867, 32082), (898, 32151), (929, 32223), (932, 32232), (977, 32331), (1009, 32394), (1013, 32418), (1058, 32529), (1066, 32553), (1071, 32562),

Gene: Priamo_47 Start: 29939, Stop: 28098, Start Num: 228
Candidate Starts for Priamo_47:
(Start: 228 @29939 has 960 MA's), (360, 29735), (399, 29660), (400, 29657), (410, 29630), (415, 29615), (424, 29603), (448, 29552), (490, 29450), (570, 29357), (585, 29318), (595, 29300), (643, 29219), (663, 29183), (710, 29081), (742, 29021), (778, 28937), (803, 28856), (835, 28772), (836, 28769), (840, 28760), (847, 28733), (855, 28703), (895, 28643), (906, 28604), (919, 28580), (1009, 28388), (1010, 28385), (1013, 28364), (1066, 28229), (1073, 28217), (1079, 28208), (1082, 28205), (1115, 28112),

Gene: Prickles_62 Start: 54544, Stop: 52685, Start Num: 190
Candidate Starts for Prickles_62:
(Start: 173 @54568 has 3 MA's), (Start: 190 @54544 has 336 MA's), (Start: 222 @54520 has 3 MA's), (Start: 232 @54514 has 2 MA's), (261, 54472), (274, 54451), (336, 54337), (339, 54331), (355, 54301), (390, 54241), (398, 54220), (416, 54166), (429, 54154), (436, 54136), (440, 54124), (487, 54019), (552, 53962), (569, 53926), (573, 53914), (585, 53887), (590, 53878), (611, 53842), (643, 53785), (648, 53776), (649, 53773), (651, 53770), (796, 53413), (804, 53380), (812, 53359), (848, 53266), (851, 53257), (877, 53194), (900, 53158), (901, 53155), (906, 53140), (939, 53062), (946, 53050), (953, 53029), (976, 52990), (1013, 52900), (1022, 52882), (1024, 52876), (1032, 52861), (1040, 52837), (1042, 52822), (1043, 52819), (1047, 52807), (1059, 52783), (1082, 52735), (1093, 52711),

Gene: Prinashe11_39 Start: 30426, Stop: 28582, Start Num: 228
Candidate Starts for Prinashe11_39:
(Start: 228 @30426 has 960 MA's), (263, 30375), (304, 30315), (343, 30252), (360, 30222), (362, 30219), (396, 30162), (399, 30150), (410, 30120), (424, 30093), (490, 29940), (570, 29844), (590, 29796), (637, 29712), (643, 29706), (685, 29634), (696, 29601), (703, 29586), (709, 29574), (761, 29475), (803, 29340), (815, 29310), (821, 29292), (823, 29289), (836, 29253), (840, 29244), (845, 29223), (848, 29214), (855, 29187), (856, 29184), (895, 29127), (900, 29106), (949, 28989), (977, 28935), (982, 28926), (992, 28908), (1022, 28830), (1041, 28773), (1058, 28737), (1066, 28713), (1073, 28701),

Gene: Prince_53 Start: 54170, Stop: 52347, Start Num: 182
Candidate Starts for Prince_53:
(Start: 163 @54188 has 29 MA's), (Start: 182 @54170 has 33 MA's), (Start: 232 @54146 has 2 MA's), (249, 54119), (261, 54104), (274, 54083), (324, 53996), (386, 53891), (402, 53849), (436, 53783), (449, 53753), (452, 53744), (457, 53741), (458, 53738), (552, 53618), (560, 53600), (569, 53582), (573, 53570), (580, 53555), (585, 53543), (648, 53432), (649, 53429), (664, 53399), (685, 53363), (775, 53138), (776, 53135), (787, 53099), (796, 53075), (804, 53042), (846, 52934), (848, 52928), (851, 52919), (900, 52820), (901, 52817), (906, 52802), (939, 52724), (946, 52712), (953, 52691), (955, 52682), (976, 52652), (1007, 52595), (1013, 52562), (1022, 52544), (1024, 52538), (1040, 52499), (1043, 52481), (1047, 52469), (1059, 52445), (1078, 52403), (1082, 52397), (1093, 52373),

Gene: PrinceCharming_57 Start: 52594, Stop: 50765, Start Num: 190
Candidate Starts for PrinceCharming_57:
(Start: 190 @52594 has 336 MA's), (Start: 232 @52567 has 2 MA's), (Start: 255 @52537 has 8 MA's), (261, 52525), (Start: 276 @52498 has 2 MA's), (278, 52495), (284, 52486), (307, 52468), (362, 52372), (390, 52321), (399, 52297), (406, 52273), (467, 52135), (482, 52111), (487, 52099), (552, 52042),

(569, 52006), (573, 51994), (583, 51970), (630, 51886), (648, 51856), (649, 51853), (664, 51823), (727, 51679), (755, 51613), (771, 51574), (775, 51562), (780, 51541), (787, 51523), (804, 51466), (840, 51382), (848, 51352), (851, 51343), (875, 51277), (897, 51250), (900, 51241), (906, 51223), (919, 51199), (939, 51145), (946, 51133), (953, 51112), (992, 51043), (1013, 50983), (1022, 50965), (1036, 50932), (1040, 50920), (1042, 50905), (1043, 50902), (1047, 50890), (1059, 50866), (1060, 50863), (1082, 50815), (1083, 50812), (1093, 50791), (1100, 50770),

Gene: PrincePhergus_37 Start: 28495, Stop: 26645, Start Num: 297
Candidate Starts for PrincePhergus_37:
(Start: 297 @28495 has 21 MA's), (360, 28372), (380, 28339), (431, 28228), (439, 28207), (442, 28201), (446, 28192), (460, 28150), (560, 27994), (582, 27940), (585, 27934), (586, 27931), (590, 27919), (607, 27889), (636, 27832), (706, 27685), (768, 27538), (847, 27328), (850, 27319), (851, 27316), (855, 27298), (873, 27256), (879, 27241), (908, 27169), (989, 26980), (992, 26971), (1010, 26911), (1013, 26887), (1025, 26854), (1068, 26743),

Gene: Priya_45 Start: 31550, Stop: 29757, Start Num: 228
Candidate Starts for Priya_45:
(Start: 228 @31550 has 960 MA's), (235, 31541), (263, 31499), (342, 31379), (343, 31376), (370, 31328), (400, 31268), (411, 31238), (415, 31226), (424, 31214), (490, 31061), (570, 30968), (643, 30830), (659, 30800), (733, 30641), (742, 30629), (764, 30602), (798, 30494), (803, 30473), (851, 30338), (855, 30320), (900, 30239), (919, 30197), (949, 30122), (990, 30047), (1009, 30005), (1042, 29903), (1066, 29846), (1073, 29834), (1079, 29825),

Gene: ProMouse_45 Start: 35152, Stop: 33326, Start Num: 228
Candidate Starts for ProMouse_45:
(Start: 228 @35152 has 960 MA's), (366, 34939), (399, 34876), (410, 34846), (418, 34825), (424, 34819), (430, 34810), (479, 34693), (490, 34666), (570, 34573), (576, 34558), (621, 34474), (622, 34471), (659, 34405), (680, 34375), (690, 34345), (709, 34300), (729, 34261), (803, 34081), (823, 34030), (836, 33994), (855, 33928), (871, 33889), (895, 33868), (900, 33847), (1009, 33613), (1010, 33610), (1018, 33574), (1032, 33550), (1057, 33481), (1066, 33454), (1079, 33433),

Gene: ProfessorX_60 Start: 54043, Stop: 52184, Start Num: 190
Candidate Starts for ProfessorX_60:
(Start: 173 @54067 has 3 MA's), (Start: 190 @54043 has 336 MA's), (Start: 222 @54019 has 3 MA's), (Start: 232 @54013 has 2 MA's), (261, 53971), (274, 53950), (336, 53836), (339, 53830), (355, 53800), (390, 53740), (398, 53719), (416, 53665), (429, 53653), (436, 53635), (440, 53623), (487, 53518), (552, 53461), (569, 53425), (573, 53413), (583, 53389), (590, 53377), (601, 53359), (611, 53341), (622, 53323), (643, 53284), (648, 53275), (649, 53272), (651, 53269), (796, 52912), (804, 52879), (812, 52858), (848, 52765), (851, 52756), (877, 52693), (900, 52657), (901, 52654), (906, 52639), (939, 52561), (946, 52549), (953, 52528), (976, 52489), (1013, 52399), (1022, 52381), (1024, 52375), (1032, 52360), (1040, 52336), (1042, 52321), (1043, 52318), (1047, 52306), (1059, 52282), (1082, 52234), (1093, 52210),

Gene: Prudy_43 Start: 31986, Stop: 30199, Start Num: 228
Candidate Starts for Prudy_43:
(Start: 228 @31986 has 960 MA's), (360, 31782), (362, 31779), (366, 31773), (375, 31758), (384, 31743), (399, 31710), (410, 31680), (424, 31653), (435, 31632), (448, 31602), (465, 31551), (490, 31500), (570, 31407), (590, 31359), (595, 31350), (607, 31335), (643, 31269), (686, 31188), (707, 31140), (742, 31071), (778, 30996), (803, 30915), (823, 30864), (835, 30831), (836, 30828), (855, 30762), (871, 30723), (895, 30702), (924, 30627), (982, 30501), (992, 30483), (1009, 30447), (1013, 30423), (1038, 30366), (1042, 30345), (1066, 30288), (1073, 30276), (1079, 30267),

Gene: Puhltonio_60 Start: 54318, Stop: 52459, Start Num: 190

Candidate Starts for Puhltonio_60:
(Start: 173 @54342 has 3 MA's), (Start: 190 @54318 has 336 MA's), (Start: 222 @54294 has 3 MA's), (Start: 232 @54288 has 2 MA's), (261, 54246), (274, 54225), (336, 54111), (339, 54105), (355, 54075), (390, 54015), (398, 53994), (416, 53940), (429, 53928), (436, 53910), (440, 53898), (487, 53793), (552, 53736), (569, 53700), (573, 53688), (585, 53661), (601, 53634), (611, 53616), (622, 53598), (643, 53559), (648, 53550), (649, 53547), (761, 53289), (796, 53187), (804, 53154), (812, 53133), (848, 53040), (851, 53031), (877, 52968), (900, 52932), (901, 52929), (906, 52914), (939, 52836), (946, 52824), (953, 52803), (976, 52764), (1013, 52674), (1022, 52656), (1024, 52650), (1032, 52635), (1040, 52611), (1042, 52596), (1043, 52593), (1047, 52581), (1059, 52557), (1082, 52509), (1093, 52485),

Gene: Pukovnik_43 Start: 32125, Stop: 30323, Start Num: 228
Candidate Starts for Pukovnik_43:
(Start: 228 @32125 has 960 MA's), (360, 31921), (362, 31918), (400, 31843), (410, 31816), (424, 31789), (435, 31768), (485, 31648), (490, 31636), (570, 31543), (590, 31495), (595, 31486), (607, 31471), (643, 31405), (701, 31288), (729, 31231), (742, 31207), (766, 31165), (783, 31102), (803, 31039), (823, 30988), (836, 30952), (847, 30916), (855, 30886), (871, 30847), (895, 30826), (900, 30805), (949, 30688), (982, 30625), (1009, 30571), (1013, 30547), (1038, 30490), (1042, 30469), (1066, 30412), (1073, 30400), (1079, 30391),

Gene: Pumbaa_45 Start: 31515, Stop: 29686, Start Num: 228
Candidate Starts for Pumbaa_45:
(Start: 228 @31515 has 960 MA's), (Start: 241 @31494 has 3 MA's), (263, 31464), (278, 31434), (384, 31272), (394, 31254), (424, 31182), (430, 31173), (480, 31053), (490, 31029), (570, 30936), (592, 30888), (607, 30867), (626, 30828), (696, 30696), (707, 30675), (729, 30630), (733, 30618), (803, 30444), (851, 30309), (855, 30291), (871, 30252), (901, 30180), (919, 30141), (929, 30117), (931, 30111), (936, 30096), (1013, 29910), (1066, 29775), (1073, 29763), (1079, 29754),

Gene: Pumpernickel_113 Start: 82450, Stop: 80615, Start Num: 223
Candidate Starts for Pumpernickel_113:
(Start: 223 @82450 has 3 MA's), (261, 82408), (362, 82222), (397, 82165), (429, 82102), (439, 82075), (472, 82012), (573, 81886), (581, 81865), (588, 81847), (613, 81802), (626, 81775), (654, 81730), (660, 81715), (672, 81697), (681, 81685), (696, 81640), (701, 81631), (803, 81385), (830, 81319), (843, 81271), (877, 81172), (915, 81076), (919, 81067), (932, 81034), (935, 81025), (949, 80992), (964, 80956), (1022, 80815), (1036, 80782), (1040, 80770), (1053, 80731), (1066, 80698),

Gene: Pumpkins_40 Start: 29815, Stop: 31680, Start Num: 228
Candidate Starts for Pumpkins_40:
(Start: 228 @29815 has 960 MA's), (261, 29863), (410, 30112), (462, 30232), (572, 30409), (626, 30517), (633, 30532), (707, 30670), (768, 30808), (803, 30928), (836, 31015), (855, 31081), (898, 31174), (1009, 31417), (1066, 31576), (1071, 31585),

Gene: Puppers_42 Start: 34640, Stop: 32244, Start Num: 15
Candidate Starts for Puppers_42:
(Start: 15 @34640 has 2 MA's), (17, 34631), (25, 34535), (134, 34199), (Start: 152 @34169 has 1 MA's), (160, 34157), (202, 34103), (Start: 285 @33983 has 1 MA's), (307, 33962), (327, 33917), (358, 33869), (370, 33848), (447, 33686), (476, 33623), (487, 33602), (490, 33593), (569, 33512), (573, 33500), (599, 33446), (617, 33416), (632, 33389), (648, 33362), (649, 33359), (651, 33356), (722, 33209), (750, 33125), (769, 33074), (780, 33035), (783, 33026), (787, 33017), (804, 32960), (840, 32879), (848, 32849), (885, 32759), (897, 32747), (906, 32720), (939, 32642), (946, 32630), (955, 32600), (1001, 32510), (1007, 32495), (1013, 32462), (1038, 32405), (1042, 32384), (1043, 32381), (1054, 32357), (1059, 32345), (1082, 32294), (1093, 32270),

Gene: Puppet_46 Start: 35284, Stop: 33497, Start Num: 228
Candidate Starts for Puppet_46:
(Start: 228 @35284 has 960 MA's), (366, 35071), (373, 35056), (399, 35008), (410, 34978), (418, 34957), (424, 34951), (430, 34942), (479, 34825), (490, 34798), (570, 34705), (576, 34690), (621, 34606), (622, 34603), (659, 34537), (680, 34507), (690, 34477), (709, 34432), (729, 34393), (803, 34213), (821, 34165), (836, 34126), (855, 34060), (897, 33988), (900, 33979), (935, 33895), (977, 33808), (1032, 33682), (1036, 33670), (1066, 33586), (1069, 33580),

Gene: Puppy_47 Start: 31175, Stop: 29337, Start Num: 228
Candidate Starts for Puppy_47:
(Start: 228 @31175 has 960 MA's), (263, 31124), (307, 31058), (360, 30971), (396, 30911), (399, 30899), (424, 30842), (430, 30833), (480, 30713), (490, 30689), (570, 30593), (592, 30545), (626, 30485), (663, 30422), (696, 30353), (707, 30332), (744, 30260), (767, 30218), (778, 30176), (803, 30095), (821, 30047), (847, 29972), (855, 29942), (869, 29912), (901, 29831), (919, 29792), (929, 29768), (935, 29750), (992, 29621), (1013, 29561), (1066, 29426), (1073, 29414), (1079, 29405),

Gene: PuppyEggo_39 Start: 28937, Stop: 27072, Start Num: 301
Candidate Starts for PuppyEggo_39:
(Start: 241 @29024 has 3 MA's), (Start: 243 @29021 has 1 MA's), (Start: 301 @28937 has 153 MA's), (Start: 305 @28928 has 5 MA's), (353, 28823), (360, 28814), (378, 28784), (380, 28781), (435, 28661), (439, 28649), (442, 28643), (483, 28538), (494, 28511), (582, 28370), (585, 28364), (586, 28361), (590, 28349), (606, 28322), (607, 28319), (614, 28304), (618, 28298), (621, 28292), (638, 28259), (701, 28130), (726, 28070), (758, 27995), (847, 27755), (850, 27746), (851, 27743), (855, 27725), (873, 27683), (877, 27677), (879, 27668), (888, 27653), (908, 27596), (974, 27437), (989, 27407), (992, 27398), (1010, 27338), (1013, 27314), (1028, 27275), (1040, 27242), (1044, 27230), (1068, 27170),

Gene: PurpleHaze_48 Start: 31752, Stop: 29938, Start Num: 228
Candidate Starts for PurpleHaze_48:
(Start: 228 @31752 has 960 MA's), (257, 31713), (263, 31701), (360, 31548), (369, 31533), (399, 31476), (424, 31419), (430, 31410), (448, 31368), (465, 31317), (490, 31266), (570, 31173), (590, 31125), (607, 31101), (626, 31062), (643, 31035), (659, 31005), (703, 30912), (709, 30900), (732, 30852), (742, 30837), (803, 30681), (823, 30630), (835, 30597), (836, 30594), (855, 30528), (871, 30489), (901, 30417), (919, 30378), (929, 30354), (935, 30336), (949, 30303), (992, 30222), (1013, 30162), (1022, 30144), (1042, 30084), (1045, 30075), (1066, 30027), (1073, 30015), (1079, 30006),

Gene: QMacho_45 Start: 30268, Stop: 32142, Start Num: 217
Candidate Starts for QMacho_45:
(Start: 215 @30265 has 12 MA's), (Start: 217 @30268 has 68 MA's), (Start: 273 @30337 has 1 MA's), (Start: 285 @30358 has 1 MA's), (304, 30382), (399, 30538), (430, 30604), (626, 30940), (696, 31075), (741, 31174), (784, 31297), (803, 31357), (806, 31363), (823, 31408), (833, 31438), (845, 31474), (855, 31510), (898, 31603), (936, 31696), (973, 31774), (1009, 31846), (1018, 31885), (1038, 31927), (1041, 31945), (1066, 32005), (1079, 32026),

Gene: QTRlifeCrisis_45 Start: 35266, Stop: 33440, Start Num: 228
Candidate Starts for QTRlifeCrisis_45:
(Start: 228 @35266 has 960 MA's), (366, 35053), (399, 34990), (410, 34960), (418, 34939), (424, 34933), (430, 34924), (479, 34807), (490, 34780), (570, 34687), (576, 34672), (590, 34639), (621, 34588), (622, 34585), (659, 34519), (680, 34489), (690, 34459), (709, 34414), (729, 34375), (803, 34195), (821, 34147), (836, 34108), (855, 34042), (871, 34003), (895, 33982), (900, 33961), (906, 33943), (935, 33877), (1009, 33727), (1010, 33724), (1018, 33688), (1032, 33664), (1035, 33655), (1039, 33643), (1066, 33568), (1079, 33547),

Gene: Qobbit_45 Start: 31512, Stop: 29719, Start Num: 228
Candidate Starts for Qobbit_45:
(Start: 228 @31512 has 960 MA's), (235, 31503), (263, 31461), (342, 31341), (343, 31338), (370, 31290), (400, 31230), (411, 31200), (415, 31188), (424, 31176), (490, 31023), (570, 30930), (643, 30792), (659, 30762), (733, 30603), (742, 30591), (764, 30564), (798, 30456), (803, 30435), (851, 30300), (855, 30282), (900, 30201), (919, 30159), (949, 30084), (990, 30009), (1009, 29967), (1042, 29865), (1066, 29808), (1073, 29796), (1079, 29787),

Gene: QuadZero_37 Start: 27017, Stop: 25152, Start Num: 301
Candidate Starts for QuadZero_37:
(Start: 301 @27017 has 153 MA's), (304, 27011), (349, 26912), (353, 26903), (369, 26879), (378, 26864), (382, 26858), (402, 26807), (404, 26804), (442, 26723), (502, 26573), (533, 26570), (574, 26471), (585, 26444), (586, 26441), (590, 26429), (607, 26399), (618, 26378), (636, 26342), (706, 26195), (777, 26015), (847, 25835), (855, 25805), (878, 25751), (889, 25733), (908, 25676), (917, 25649), (933, 25607), (949, 25568), (989, 25487), (992, 25478), (1010, 25418), (1013, 25394), (1017, 25382), (1020, 25373), (1028, 25355), (1040, 25322), (1068, 25250),

Gene: Quantum_66 Start: 46750, Stop: 44786, Start Num: 294
Candidate Starts for Quantum_66:
(Start: 294 @46750 has 13 MA's), (352, 46654), (409, 46546), (413, 46534), (430, 46480), (462, 46396), (512, 46261), (536, 46162), (540, 46150), (554, 46123), (559, 46108), (625, 45970), (672, 45883), (709, 45787), (748, 45679), (750, 45676), (764, 45649), (772, 45622), (780, 45592), (793, 45562), (826, 45457), (859, 45349), (861, 45340), (864, 45334), (933, 45190), (939, 45172), (948, 45154), (987, 45100), (1024, 44983), (1030, 44971), (1034, 44962), (1039, 44950), (1042, 44932), (1053, 44908), (1064, 44884), (1071, 44866),

Gene: Quartz_38 Start: 28631, Stop: 26730, Start Num: 296
Candidate Starts for Quartz_38:
(Start: 296 @28631 has 13 MA's), (360, 28508), (369, 28493), (378, 28478), (396, 28445), (398, 28436), (402, 28421), (415, 28385), (429, 28370), (439, 28343), (442, 28337), (460, 28286), (474, 28247), (502, 28187), (582, 28061), (586, 28052), (590, 28040), (607, 28010), (636, 27953), (706, 27806), (726, 27761), (770, 27650), (833, 27455), (847, 27413), (855, 27383), (873, 27341), (889, 27311), (897, 27290), (908, 27254), (1010, 26996), (1013, 26972), (1025, 26939), (1028, 26933), (1068, 26828),

Gene: QueenB2_44 Start: 31390, Stop: 29603, Start Num: 228
Candidate Starts for QueenB2_44:
(Start: 228 @31390 has 960 MA's), (362, 31183), (366, 31177), (375, 31162), (384, 31147), (399, 31114), (400, 31111), (410, 31084), (424, 31057), (435, 31036), (490, 30904), (570, 30811), (583, 30775), (590, 30763), (595, 30754), (607, 30739), (643, 30673), (686, 30592), (707, 30544), (709, 30538), (742, 30475), (803, 30319), (823, 30268), (835, 30235), (836, 30232), (855, 30166), (871, 30127), (895, 30106), (924, 30031), (929, 30019), (982, 29905), (992, 29887), (1009, 29851), (1013, 29827), (1042, 29749), (1066, 29692), (1073, 29680), (1079, 29671),

Gene: QueenBeane_60 Start: 54350, Stop: 52491, Start Num: 190
Candidate Starts for QueenBeane_60:
(Start: 173 @54374 has 3 MA's), (Start: 190 @54350 has 336 MA's), (Start: 222 @54326 has 3 MA's), (Start: 232 @54320 has 2 MA's), (261, 54278), (274, 54257), (336, 54143), (339, 54137), (355, 54107), (390, 54047), (398, 54026), (416, 53972), (429, 53960), (436, 53942), (440, 53930), (487, 53825), (552, 53768), (569, 53732), (573, 53720), (585, 53693), (611, 53648), (643, 53591), (648, 53582), (649, 53579), (796, 53219), (804, 53186), (812, 53165), (848, 53072), (851, 53063), (877, 53000), (900, 52964), (901, 52961), (906, 52946), (939, 52868), (946, 52856), (953, 52835), (976, 52796), (1013, 52706), (1022, 52688), (1024, 52682), (1032, 52667), (1040, 52643), (1042, 52628), (1043,

52625), (1047, 52613), (1059, 52589), (1082, 52541), (1093, 52517),

Gene: QueenBeesly_44 Start: 31266, Stop: 29479, Start Num: 228
Candidate Starts for QueenBeesly_44:
(84, 31521), (Start: 228 @31266 has 960 MA's), (360, 31062), (362, 31059), (366, 31053), (375, 31038), (384, 31023), (399, 30990), (400, 30987), (410, 30960), (424, 30933), (435, 30912), (448, 30882), (490, 30780), (570, 30687), (590, 30639), (595, 30630), (607, 30615), (643, 30549), (686, 30468), (707, 30420), (709, 30414), (742, 30351), (778, 30276), (803, 30195), (823, 30144), (835, 30111), (836, 30108), (855, 30042), (871, 30003), (895, 29982), (924, 29907), (931, 29889), (949, 29844), (958, 29817), (982, 29781), (990, 29769), (992, 29763), (1009, 29727), (1013, 29703), (1042, 29625), (1066, 29568), (1073, 29556), (1079, 29547),

Gene: QueenPie_51 Start: 53683, Stop: 51860, Start Num: 182
Candidate Starts for QueenPie_51:
(Start: 163 @53701 has 29 MA's), (Start: 182 @53683 has 33 MA's), (Start: 232 @53659 has 2 MA's), (249, 53632), (261, 53617), (274, 53596), (324, 53509), (386, 53404), (402, 53362), (436, 53296), (449, 53266), (452, 53257), (457, 53254), (458, 53251), (467, 53224), (552, 53131), (560, 53113), (569, 53095), (573, 53083), (585, 53056), (622, 52993), (632, 52972), (643, 52954), (648, 52945), (649, 52942), (685, 52876), (775, 52651), (776, 52648), (787, 52612), (796, 52588), (804, 52555), (846, 52447), (848, 52441), (851, 52432), (900, 52333), (901, 52330), (906, 52315), (939, 52237), (946, 52225), (953, 52204), (955, 52195), (976, 52165), (992, 52135), (1007, 52108), (1013, 52075), (1022, 52057), (1024, 52051), (1040, 52012), (1043, 51994), (1047, 51982), (1059, 51958), (1078, 51916), (1082, 51910), (1093, 51886),

Gene: Quenya_42 Start: 30106, Stop: 31977, Start Num: 228
Candidate Starts for Quenya_42:
(Start: 187 @30058 has 1 MA's), (Start: 228 @30106 has 960 MA's), (239, 30124), (Start: 273 @30175 has 1 MA's), (360, 30313), (435, 30454), (436, 30457), (473, 30538), (582, 30697), (605, 30733), (626, 30778), (633, 30793), (680, 30865), (686, 30886), (803, 31192), (823, 31243), (830, 31258), (845, 31309), (848, 31318), (855, 31345), (898, 31438), (936, 31531), (973, 31609), (1009, 31681), (1013, 31705), (1038, 31762), (1058, 31816), (1066, 31840), (1079, 31861),

Gene: Quesadilla_58 Start: 54997, Stop: 53174, Start Num: 190
Candidate Starts for Quesadilla_58:
(Start: 190 @54997 has 336 MA's), (249, 54943), (278, 54898), (292, 54889), (307, 54871), (336, 54817), (362, 54778), (406, 54679), (429, 54640), (439, 54616), (466, 54547), (487, 54508), (552, 54451), (569, 54415), (573, 54403), (583, 54379), (585, 54376), (590, 54367), (649, 54256), (658, 54238), (664, 54226), (685, 54190), (771, 53977), (775, 53965), (776, 53962), (780, 53944), (787, 53926), (796, 53902), (797, 53896), (804, 53869), (848, 53755), (851, 53746), (900, 53647), (901, 53644), (906, 53629), (939, 53551), (946, 53539), (953, 53518), (960, 53500), (981, 53470), (1002, 53434), (1013, 53389), (1022, 53371), (1024, 53365), (1040, 53326), (1041, 53314), (1042, 53311), (1059, 53272), (1082, 53224), (1093, 53200),

Gene: QuinnKiro_43 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for QuinnKiro_43:
(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836), (1079, 29827),

Gene: Quisquiliae_61 Start: 54311, Stop: 52452, Start Num: 190

Candidate Starts for Quisquiliae_61:
(Start: 173 @54335 has 3 MA's), (Start: 190 @54311 has 336 MA's), (Start: 222 @54287 has 3 MA's), (Start: 232 @54281 has 2 MA's), (261, 54239), (274, 54218), (336, 54104), (339, 54098), (355, 54068), (390, 54008), (398, 53987), (416, 53933), (429, 53921), (436, 53903), (440, 53891), (487, 53786), (552, 53729), (569, 53693), (573, 53681), (583, 53657), (590, 53645), (601, 53627), (611, 53609), (622, 53591), (643, 53552), (648, 53543), (649, 53540), (651, 53537), (796, 53180), (804, 53147), (848, 53033), (851, 53024), (877, 52961), (900, 52925), (901, 52922), (906, 52907), (939, 52829), (946, 52817), (953, 52796), (976, 52757), (1013, 52667), (1022, 52649), (1024, 52643), (1032, 52628), (1040, 52604), (1042, 52589), (1043, 52586), (1047, 52574), (1059, 52550), (1082, 52502), (1093, 52478),

Gene: Quokka_43 Start: 30374, Stop: 28545, Start Num: 227
Candidate Starts for Quokka_43:
(Start: 227 @30374 has 33 MA's), (360, 30170), (362, 30167), (366, 30161), (375, 30146), (384, 30131), (398, 30101), (399, 30098), (410, 30068), (424, 30041), (435, 30020), (448, 29990), (490, 29888), (570, 29795), (590, 29747), (595, 29738), (607, 29723), (643, 29657), (686, 29576), (707, 29528), (729, 29483), (803, 29303), (821, 29255), (823, 29252), (836, 29216), (855, 29150), (871, 29111), (895, 29090), (924, 29015), (931, 28997), (949, 28952), (958, 28925), (982, 28889), (992, 28871), (1009, 28835), (1013, 28811), (1042, 28733), (1066, 28676), (1073, 28664), (1079, 28655), (1100, 28607), (1113, 28577), (1116, 28559), (1118, 28556),

Gene: Qyrzula_52 Start: 52584, Stop: 50782, Start Num: 232
Candidate Starts for Qyrzula_52:
(Start: 190 @52611 has 336 MA's), (Start: 232 @52584 has 2 MA's), (Start: 255 @52554 has 8 MA's), (261, 52542), (Start: 276 @52515 has 2 MA's), (278, 52512), (284, 52503), (307, 52485), (362, 52389), (390, 52338), (399, 52314), (467, 52152), (482, 52128), (487, 52116), (552, 52059), (569, 52023), (573, 52011), (583, 51987), (627, 51909), (630, 51903), (635, 51894), (648, 51873), (649, 51870), (664, 51840), (727, 51696), (755, 51630), (771, 51591), (775, 51579), (780, 51558), (787, 51540), (804, 51483), (831, 51426), (840, 51399), (848, 51369), (851, 51360), (875, 51294), (897, 51267), (900, 51258), (906, 51240), (919, 51216), (939, 51162), (946, 51150), (953, 51129), (992, 51060), (1013, 51000), (1022, 50982), (1036, 50949), (1040, 50937), (1042, 50922), (1043, 50919), (1047, 50907), (1059, 50883), (1060, 50880), (1082, 50832), (1083, 50829), (1093, 50808), (1100, 50787),

Gene: RER2_29 Start: 24985, Stop: 23201, Start Num: 228
Candidate Starts for RER2_29:
(Start: 228 @24985 has 960 MA's), (379, 24751), (396, 24721), (398, 24712), (399, 24709), (415, 24664), (424, 24652), (430, 24643), (448, 24601), (490, 24499), (498, 24478), (570, 24406), (587, 24361), (590, 24358), (617, 24316), (619, 24310), (626, 24295), (643, 24268), (696, 24163), (709, 24136), (729, 24097), (803, 23917), (821, 23869), (855, 23764), (856, 23761), (895, 23704), (900, 23683), (922, 23635), (951, 23560), (990, 23491), (1009, 23449), (1013, 23425), (1042, 23347), (1066, 23290), (1073, 23278), (1100, 23221),

Gene: RGL3_31 Start: 25970, Stop: 24174, Start Num: 228
Candidate Starts for RGL3_31:
(Start: 228 @25970 has 960 MA's), (360, 25766), (366, 25757), (384, 25727), (396, 25706), (418, 25643), (430, 25628), (435, 25616), (480, 25508), (490, 25484), (493, 25475), (550, 25433), (552, 25430), (570, 25391), (587, 25346), (590, 25343), (626, 25280), (637, 25259), (643, 25253), (696, 25148), (709, 25121), (729, 25082), (732, 25073), (744, 25055), (767, 25013), (803, 24890), (821, 24842), (855, 24737), (900, 24656), (904, 24644), (990, 24464), (992, 24458), (1009, 24422), (1010, 24419), (1013, 24398), (1066, 24263), (1073, 24251), (1079, 24242), (1094, 24212), (1100, 24194),

Gene: Raccoon_38 Start: 29022, Stop: 27157, Start Num: 301
Candidate Starts for Raccoon_38:

(Start: 301 @29022 has 153 MA's), (Start: 305 @29013 has 5 MA's), (433, 28749), (439, 28734), (442, 28728), (494, 28596), (545, 28542), (582, 28455), (586, 28446), (590, 28434), (606, 28407), (607, 28404), (614, 28389), (618, 28383), (768, 28053), (847, 27840), (850, 27831), (851, 27828), (855, 27810), (873, 27768), (879, 27753), (908, 27681), (917, 27654), (974, 27522), (989, 27492), (1010, 27423), (1013, 27399), (1028, 27360), (1044, 27315),

Gene: Racecar_100 Start: 78450, Stop: 80246, Start Num: 238
Candidate Starts for Racecar_100:
(Start: 238 @78450 has 11 MA's), (304, 78546), (429, 78762), (439, 78789), (442, 78795), (479, 78864), (493, 78900), (613, 79047), (616, 79053), (626, 79074), (633, 79089), (729, 79278), (753, 79323), (769, 79356), (774, 79374), (783, 79407), (798, 79446), (803, 79467), (806, 79473), (845, 79587), (870, 79671), (876, 79677), (879, 79689), (898, 79737), (902, 79749), (919, 79785), (932, 79818), (935, 79827), (953, 79872), (960, 79890), (1002, 79974), (1009, 79995), (1014, 80022), (1022, 80037), (1036, 80070), (1041, 80094), (1049, 80118), (1066, 80154), (1083, 80181),

Gene: Rachaly_45 Start: 31989, Stop: 30202, Start Num: 228
Candidate Starts for Rachaly_45:
(Start: 228 @31989 has 960 MA's), (362, 31782), (366, 31776), (384, 31746), (399, 31713), (400, 31710), (415, 31668), (424, 31656), (490, 31503), (570, 31410), (590, 31362), (595, 31353), (607, 31338), (643, 31272), (707, 31143), (778, 30999), (803, 30918), (823, 30867), (835, 30834), (836, 30831), (855, 30765), (871, 30726), (895, 30705), (924, 30630), (929, 30618), (958, 30540), (982, 30504), (992, 30486), (1009, 30450), (1013, 30426), (1042, 30348), (1066, 30291), (1073, 30279), (1079, 30270),

Gene: RagingRooster_57 Start: 53332, Stop: 51515, Start Num: 230
Candidate Starts for RagingRooster_57:
(110, 53515), (Start: 230 @53332 has 52 MA's), (249, 53302), (366, 53122), (435, 52969), (439, 52957), (452, 52927), (458, 52921), (487, 52858), (489, 52852), (552, 52801), (566, 52774), (569, 52765), (590, 52717), (649, 52612), (694, 52516), (722, 52465), (775, 52321), (787, 52282), (797, 52252), (804, 52225), (810, 52213), (846, 52117), (848, 52111), (851, 52102), (854, 52090), (883, 52018), (900, 51988), (906, 51970), (912, 51961), (939, 51892), (946, 51880), (953, 51859), (992, 51790), (1002, 51775), (1010, 51751), (1013, 51730), (1022, 51712), (1024, 51706), (1038, 51673), (1040, 51667), (1043, 51649), (1047, 51637), (1054, 51625), (1059, 51613), (1078, 51571), (1093, 51541),

Gene: Rahalelujah_44 Start: 30731, Stop: 28938, Start Num: 228
Candidate Starts for Rahalelujah_44:
(Start: 228 @30731 has 960 MA's), (235, 30722), (263, 30680), (317, 30593), (360, 30527), (366, 30518), (370, 30509), (381, 30491), (400, 30449), (410, 30422), (415, 30407), (424, 30395), (448, 30344), (490, 30242), (565, 30164), (570, 30149), (595, 30092), (659, 29981), (704, 29885), (733, 29822), (764, 29783), (767, 29777), (803, 29654), (840, 29558), (847, 29531), (855, 29501), (871, 29462), (900, 29420), (949, 29303), (990, 29228), (1009, 29186), (1042, 29084), (1066, 29027), (1073, 29015), (1079, 29006),

Gene: Raid_44 Start: 34729, Stop: 32903, Start Num: 228
Candidate Starts for Raid_44:
(Start: 228 @34729 has 960 MA's), (366, 34516), (399, 34453), (410, 34423), (418, 34402), (424, 34396), (430, 34387), (439, 34363), (479, 34270), (490, 34243), (570, 34150), (576, 34135), (621, 34051), (622, 34048), (659, 33982), (680, 33952), (690, 33922), (709, 33877), (729, 33838), (803, 33658), (821, 33610), (836, 33571), (855, 33505), (871, 33466), (895, 33445), (900, 33424), (906, 33406), (935, 33340), (1009, 33190), (1010, 33187), (1018, 33151), (1032, 33127), (1035, 33118), (1039, 33106), (1066, 33031), (1079, 33010),

Gene: RainyPolka_49 Start: 39380, Stop: 37371, Start Num: 298
Candidate Starts for RainyPolka_49:
(Start: 298 @39380 has 15 MA's), (343, 39311), (368, 39269), (384, 39242), (409, 39179), (411, 39173), (413, 39167), (435, 39119), (439, 39107), (451, 39080), (459, 39056), (486, 38996), (495, 38972), (509, 38933), (510, 38930), (527, 38846), (568, 38750), (609, 38663), (625, 38639), (631, 38627), (639, 38615), (679, 38546), (781, 38294), (787, 38279), (806, 38222), (811, 38207), (814, 38201), (828, 38159), (838, 38129), (847, 38096), (856, 38063), (861, 38042), (867, 38024), (874, 38000), (891, 37943), (919, 37859), (926, 37841), (929, 37835), (931, 37829), (936, 37814), (939, 37805), (995, 37673), (1009, 37628), (1013, 37604), (1014, 37601), (1039, 37547), (1042, 37529), (1058, 37496), (1066, 37472), (1079, 37451), (1092, 37424),

Gene: Rajelicia_46 Start: 35200, Stop: 33413, Start Num: 228
Candidate Starts for Rajelicia_46:
(Start: 228 @35200 has 960 MA's), (366, 34987), (373, 34972), (410, 34894), (418, 34873), (424, 34867), (430, 34858), (479, 34741), (490, 34714), (570, 34621), (576, 34606), (621, 34522), (622, 34519), (659, 34453), (680, 34423), (690, 34393), (709, 34348), (729, 34309), (803, 34129), (821, 34081), (836, 34042), (855, 33976), (897, 33904), (900, 33895), (935, 33811), (977, 33724), (1032, 33598), (1036, 33586), (1066, 33502), (1069, 33496),

Gene: Rapheph_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Rapheph_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (701, 28123), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: Raptor_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for Raptor_39:
(Start: 241 @29021 has 3 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (435, 28658), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (585, 28361), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (701, 28127), (726, 28067), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Rasputia_89 Start: 56570, Stop: 58606, Start Num: 194
Candidate Starts for Rasputia_89:
(Start: 194 @56570 has 4 MA's), (203, 56582), (235, 56627), (265, 56669), (286, 56711), (378, 56894), (380, 56897), (387, 56909), (401, 56948), (404, 56954), (461, 57086), (472, 57116), (552, 57230), (592, 57323), (607, 57350), (641, 57416), (661, 57458), (671, 57473), (689, 57512), (695, 57524), (699, 57530), (705, 57545), (731, 57611), (815, 57812), (855, 57926), (908, 58061), (935, 58136), (949, 58169), (984, 58241), (999, 58283), (1007, 58307), (1010, 58319), (1013, 58343), (1015, 58349), (1020, 58364), (1032, 58394), (1037, 58412), (1043, 58439), (1045, 58445), (1055, 58472), (1063, 58493), (1070, 58511), (1076, 58523), (1085, 58541), (1108, 58601),

Gene: Rasputin_36 Start: 28083, Stop: 26299, Start Num: 228
Candidate Starts for Rasputin_36:
(Start: 228 @28083 has 960 MA's), (379, 27849), (396, 27819), (398, 27810), (399, 27807), (415, 27762), (424, 27750), (448, 27699), (490, 27597), (498, 27576), (570, 27504), (587, 27459), (590,

27456), (617, 27414), (619, 27408), (626, 27393), (643, 27366), (696, 27261), (701, 27252), (709, 27234), (729, 27195), (767, 27138), (803, 27015), (821, 26967), (855, 26862), (856, 26859), (895, 26802), (900, 26781), (922, 26733), (951, 26658), (990, 26589), (1009, 26547), (1013, 26523), (1042, 26445), (1066, 26388), (1073, 26376), (1079, 26367), (1094, 26337), (1100, 26319),

Gene: Ravana_48 Start: 30371, Stop: 28581, Start Num: 228
Candidate Starts for Ravana_48:
(Start: 228 @30371 has 960 MA's), (399, 30092), (400, 30089), (410, 30062), (424, 30035), (490, 29882), (570, 29789), (587, 29744), (590, 29741), (595, 29732), (690, 29561), (696, 29543), (707, 29522), (709, 29516), (729, 29477), (768, 29417), (778, 29378), (796, 29327), (798, 29318), (803, 29297), (823, 29246), (835, 29213), (847, 29174), (855, 29144), (895, 29084), (900, 29063), (919, 29021), (930, 28994), (935, 28979), (977, 28892), (1009, 28829), (1010, 28826), (1066, 28670), (1073, 28658), (1100, 28601),

Gene: RawrgerThat_54 Start: 54025, Stop: 52202, Start Num: 182
Candidate Starts for RawrgerThat_54:
(Start: 163 @54043 has 29 MA's), (Start: 182 @54025 has 33 MA's), (Start: 232 @54001 has 2 MA's), (249, 53974), (261, 53959), (274, 53938), (324, 53851), (386, 53746), (398, 53719), (402, 53704), (436, 53638), (449, 53608), (452, 53599), (457, 53596), (458, 53593), (467, 53566), (487, 53530), (552, 53473), (560, 53455), (569, 53437), (573, 53425), (585, 53398), (622, 53335), (643, 53296), (648, 53287), (649, 53284), (664, 53254), (685, 53218), (775, 52993), (776, 52990), (787, 52954), (804, 52897), (846, 52789), (848, 52783), (851, 52774), (900, 52675), (901, 52672), (906, 52657), (939, 52579), (946, 52567), (953, 52546), (955, 52537), (976, 52507), (992, 52477), (1007, 52450), (1013, 52417), (1024, 52393), (1040, 52354), (1043, 52336), (1047, 52324), (1059, 52300), (1078, 52258), (1082, 52252), (1093, 52228),

Gene: ReMo_46 Start: 29740, Stop: 27950, Start Num: 228
Candidate Starts for ReMo_46:
(Start: 228 @29740 has 960 MA's), (343, 29566), (399, 29461), (400, 29458), (410, 29431), (424, 29404), (448, 29353), (490, 29251), (570, 29158), (587, 29113), (590, 29110), (595, 29101), (686, 28939), (696, 28912), (707, 28891), (709, 28885), (768, 28786), (778, 28747), (796, 28696), (803, 28666), (823, 28615), (835, 28582), (845, 28549), (847, 28543), (855, 28513), (895, 28453), (900, 28432), (919, 28390), (930, 28363), (935, 28348), (977, 28261), (1009, 28198), (1010, 28195), (1066, 28039), (1073, 28027), (1082, 28015),

Gene: Reba_48 Start: 31412, Stop: 29598, Start Num: 228
Candidate Starts for Reba_48:
(Start: 228 @31412 has 960 MA's), (257, 31373), (263, 31361), (360, 31208), (369, 31193), (399, 31136), (424, 31079), (430, 31070), (448, 31028), (465, 30977), (490, 30926), (570, 30833), (590, 30785), (607, 30761), (626, 30722), (643, 30695), (659, 30665), (703, 30572), (709, 30560), (732, 30512), (742, 30497), (803, 30341), (823, 30290), (835, 30257), (836, 30254), (855, 30188), (871, 30149), (901, 30077), (919, 30038), (929, 30014), (935, 29996), (949, 29963), (992, 29882), (1013, 29822), (1022, 29804), (1042, 29744), (1045, 29735), (1066, 29687), (1073, 29675), (1079, 29666),

Gene: Rebeuca_44 Start: 31493, Stop: 29658, Start Num: 228
Candidate Starts for Rebeuca_44:
(Start: 228 @31493 has 960 MA's), (263, 31442), (307, 31376), (360, 31289), (373, 31265), (396, 31229), (399, 31217), (424, 31160), (430, 31151), (490, 31007), (544, 30965), (570, 30914), (592, 30866), (626, 30806), (694, 30677), (696, 30674), (707, 30653), (709, 30647), (767, 30539), (803, 30416), (821, 30368), (847, 30293), (855, 30263), (871, 30224), (900, 30155), (901, 30152), (919, 30113), (929, 30089), (931, 30083), (935, 30071), (1013, 29882), (1024, 29858), (1045, 29795), (1066, 29747), (1073, 29735), (1079, 29726),

Gene: Reccee_58 Start: 54599, Stop: 52773, Start Num: 182
Candidate Starts for Reccee_58:
(129, 54677), (Start: 182 @54599 has 33 MA's), (249, 54545), (293, 54485), (364, 54374), (390, 54326), (436, 54224), (457, 54182), (472, 54146), (487, 54116), (569, 54023), (573, 54011), (583, 53987), (590, 53975), (601, 53957), (635, 53894), (649, 53870), (701, 53765), (776, 53576), (780, 53558), (797, 53510), (804, 53483), (846, 53375), (848, 53369), (851, 53360), (856, 53339), (883, 53276), (901, 53243), (906, 53228), (933, 53168), (939, 53150), (946, 53138), (953, 53117), (955, 53108), (957, 53105), (1013, 52988), (1024, 52964), (1040, 52925), (1042, 52910), (1043, 52907), (1054, 52883), (1059, 52871), (1060, 52868), (1083, 52820), (1093, 52799), (1100, 52778),

Gene: RedMaple_62 Start: 54786, Stop: 52927, Start Num: 190
Candidate Starts for RedMaple_62:
(Start: 173 @54810 has 3 MA's), (Start: 190 @54786 has 336 MA's), (Start: 222 @54762 has 3 MA's), (Start: 232 @54756 has 2 MA's), (261, 54714), (274, 54693), (336, 54579), (339, 54573), (355, 54543), (390, 54483), (398, 54462), (416, 54408), (429, 54396), (436, 54378), (440, 54366), (487, 54261), (552, 54204), (569, 54168), (573, 54156), (583, 54132), (590, 54120), (601, 54102), (611, 54084), (622, 54066), (643, 54027), (648, 54018), (649, 54015), (651, 54012), (796, 53655), (804, 53622), (812, 53601), (848, 53508), (851, 53499), (877, 53436), (900, 53400), (901, 53397), (906, 53382), (939, 53304), (946, 53292), (953, 53271), (976, 53232), (1013, 53142), (1022, 53124), (1024, 53118), (1032, 53103), (1040, 53079), (1042, 53064), (1043, 53061), (1047, 53049), (1059, 53025), (1082, 52977), (1093, 52953),

Gene: RedRaider89_61 Start: 54477, Stop: 52618, Start Num: 190
Candidate Starts for RedRaider89_61:
(Start: 173 @54501 has 3 MA's), (Start: 190 @54477 has 336 MA's), (Start: 222 @54453 has 3 MA's), (Start: 232 @54447 has 2 MA's), (261, 54405), (274, 54384), (336, 54270), (339, 54264), (355, 54234), (390, 54174), (398, 54153), (416, 54099), (429, 54087), (436, 54069), (440, 54057), (487, 53952), (552, 53895), (569, 53859), (573, 53847), (583, 53823), (590, 53811), (601, 53793), (611, 53775), (643, 53718), (648, 53709), (649, 53706), (651, 53703), (761, 53448), (796, 53346), (804, 53313), (812, 53292), (848, 53199), (851, 53190), (877, 53127), (900, 53091), (901, 53088), (906, 53073), (939, 52995), (946, 52983), (953, 52962), (976, 52923), (1013, 52833), (1022, 52815), (1024, 52809), (1032, 52794), (1040, 52770), (1042, 52755), (1043, 52752), (1047, 52740), (1059, 52716), (1082, 52668), (1093, 52644),

Gene: RedRock_46 Start: 32469, Stop: 30682, Start Num: 228
Candidate Starts for RedRock_46:
(Start: 228 @32469 has 960 MA's), (360, 32265), (362, 32262), (375, 32241), (384, 32226), (399, 32193), (410, 32163), (424, 32136), (435, 32115), (490, 31983), (570, 31890), (590, 31842), (595, 31833), (607, 31818), (643, 31752), (686, 31671), (707, 31623), (744, 31551), (778, 31479), (803, 31398), (823, 31347), (835, 31314), (836, 31311), (855, 31245), (871, 31206), (895, 31185), (900, 31164), (992, 30966), (1009, 30930), (1010, 30927), (1013, 30906), (1038, 30849), (1042, 30828), (1066, 30771), (1073, 30759), (1079, 30750),

Gene: Redfield_38 Start: 29054, Stop: 27189, Start Num: 301
Candidate Starts for Redfield_38:
(Start: 301 @29054 has 153 MA's), (Start: 305 @29045 has 5 MA's), (433, 28781), (439, 28766), (442, 28760), (494, 28628), (545, 28574), (582, 28487), (586, 28478), (590, 28466), (606, 28439), (607, 28436), (614, 28421), (618, 28415), (768, 28085), (847, 27872), (850, 27863), (851, 27860), (855, 27842), (873, 27800), (889, 27770), (908, 27713), (974, 27554), (989, 27524), (1010, 27455), (1013, 27431), (1015, 27425), (1028, 27392), (1040, 27359), (1044, 27347),

Gene: Reedo_40 Start: 27887, Stop: 29797, Start Num: 228
Candidate Starts for Reedo_40:

(79, 27626), (124, 27752), (Start: 228 @27887 has 960 MA's), (261, 27935), (343, 28061), (360, 28091), (410, 28184), (418, 28205), (452, 28274), (572, 28526), (576, 28535), (626, 28634), (633, 28649), (707, 28787), (768, 28925), (778, 28964), (803, 29045), (836, 29132), (847, 29168), (853, 29189), (855, 29198), (929, 29363), (932, 29372), (1066, 29693), (1071, 29702),

Gene: Refuge_44 Start: 32644, Stop: 30800, Start Num: 228
Candidate Starts for Refuge_44:
(Start: 228 @32644 has 960 MA's), (Start: 255 @32608 has 8 MA's), (261, 32596), (263, 32593), (304, 32533), (307, 32527), (343, 32470), (366, 32431), (399, 32365), (400, 32362), (424, 32308), (435, 32287), (485, 32167), (490, 32155), (570, 32062), (590, 32014), (595, 32005), (607, 31990), (643, 31924), (670, 31876), (701, 31807), (742, 31726), (766, 31684), (778, 31639), (787, 31612), (803, 31558), (823, 31507), (836, 31471), (855, 31405), (871, 31366), (895, 31345), (900, 31324), (982, 31144), (1009, 31090), (1010, 31087), (1013, 31066), (1038, 31009), (1042, 30988), (1066, 30931), (1073, 30919), (1100, 30862),

Gene: ReginaGlobina_98 Start: 78225, Stop: 79943, Start Num: 285
Candidate Starts for ReginaGlobina_98:
(Start: 238 @78150 has 11 MA's), (Start: 273 @78204 has 1 MA's), (Start: 276 @78213 has 2 MA's), (Start: 285 @78225 has 1 MA's), (413, 78444), (429, 78462), (439, 78489), (442, 78495), (493, 78600), (613, 78747), (626, 78774), (633, 78789), (666, 78843), (767, 79044), (774, 79071), (783, 79104), (798, 79143), (803, 79164), (806, 79170), (845, 79287), (870, 79371), (871, 79374), (898, 79437), (902, 79449), (919, 79485), (932, 79518), (953, 79572), (960, 79590), (1009, 79695), (1014, 79722), (1022, 79737), (1036, 79770), (1038, 79776), (1041, 79794), (1045, 79806), (1049, 79818), (1053, 79821), (1066, 79854), (1094, 79905),

Gene: Relief_44 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Relief_44:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Remus_47 Start: 29659, Stop: 27869, Start Num: 228
Candidate Starts for Remus_47:
(Start: 228 @29659 has 960 MA's), (343, 29485), (399, 29380), (400, 29377), (410, 29350), (424, 29323), (448, 29272), (490, 29170), (570, 29077), (587, 29032), (590, 29029), (595, 29020), (686, 28858), (696, 28831), (707, 28810), (709, 28804), (768, 28705), (778, 28666), (796, 28615), (803, 28585), (823, 28534), (835, 28501), (847, 28462), (855, 28432), (895, 28372), (900, 28351), (919, 28309), (930, 28282), (977, 28180), (1009, 28117), (1010, 28114), (1066, 27958), (1073, 27946), (1082, 27934),

Gene: RemusLoopin_36 Start: 28123, Stop: 30075, Start Num: 228
Candidate Starts for RemusLoopin_36:
(Start: 228 @28123 has 960 MA's), (Start: 241 @28144 has 3 MA's), (278, 28204), (360, 28333), (394, 28390), (410, 28435), (411, 28438), (492, 28621), (556, 28672), (572, 28711), (599, 28768), (607, 28783), (621, 28810), (624, 28819), (626, 28822), (627, 28825), (635, 28840), (657, 28873), (696, 28954), (707, 28975), (712, 28987), (761, 29119), (803, 29254), (821, 29302), (836, 29341), (838, 29344), (845, 29371), (853, 29398), (855, 29407), (869, 29437), (879, 29461), (906, 29524), (977, 29680), (1002, 29722), (1007, 29734), (1013, 29767), (1018, 29782), (1024, 29791), (1036, 29818), (1066, 29902), (1073, 29914), (1102, 29977),

Gene: RenegadeRaider_39 Start: 28571, Stop: 26721, Start Num: 297

Candidate Starts for RenegadeRaider_39:
(Start: 297 @28571 has 21 MA's), (360, 28448), (380, 28415), (431, 28304), (439, 28283), (442, 28277), (446, 28268), (460, 28226), (560, 28070), (582, 28016), (585, 28010), (586, 28007), (590, 27995), (607, 27965), (636, 27908), (735, 27692), (768, 27614), (847, 27404), (851, 27392), (855, 27374), (873, 27332), (908, 27245), (989, 27056), (992, 27047), (1010, 26987), (1013, 26963), (1020, 26942), (1025, 26930), (1068, 26819),

Gene: Renkei_52 Start: 53005, Stop: 51182, Start Num: 182
Candidate Starts for Renkei_52:
(Start: 163 @53023 has 29 MA's), (Start: 182 @53005 has 33 MA's), (Start: 232 @52981 has 2 MA's), (249, 52954), (261, 52939), (274, 52918), (324, 52831), (386, 52726), (402, 52684), (436, 52618), (449, 52588), (452, 52579), (457, 52576), (458, 52573), (552, 52453), (560, 52435), (569, 52417), (573, 52405), (580, 52390), (585, 52378), (648, 52267), (649, 52264), (664, 52234), (685, 52198), (775, 51973), (776, 51970), (787, 51934), (796, 51910), (804, 51877), (846, 51769), (848, 51763), (851, 51754), (900, 51655), (901, 51652), (906, 51637), (939, 51559), (946, 51547), (953, 51526), (955, 51517), (976, 51487), (992, 51457), (1007, 51430), (1013, 51397), (1022, 51379), (1024, 51373), (1040, 51334), (1043, 51316), (1047, 51304), (1059, 51280), (1078, 51238), (1082, 51232), (1093, 51208),

Gene: Renzie_39 Start: 28913, Stop: 27057, Start Num: 305
Candidate Starts for Renzie_39:
(Start: 241 @29009 has 3 MA's), (Start: 301 @28922 has 153 MA's), (Start: 305 @28913 has 5 MA's), (353, 28808), (360, 28799), (378, 28769), (380, 28766), (435, 28646), (439, 28634), (442, 28628), (483, 28523), (494, 28496), (582, 28355), (585, 28349), (586, 28346), (590, 28334), (606, 28307), (607, 28304), (614, 28289), (618, 28283), (621, 28277), (638, 28244), (701, 28115), (726, 28055), (847, 27740), (850, 27731), (851, 27728), (855, 27710), (873, 27668), (877, 27662), (888, 27638), (908, 27581), (974, 27422), (989, 27392), (992, 27383), (1010, 27323), (1013, 27299), (1028, 27260), (1040, 27227), (1044, 27215), (1068, 27155),

Gene: Reprobate_57 Start: 54575, Stop: 52746, Start Num: 182
Candidate Starts for Reprobate_57:
(Start: 182 @54575 has 33 MA's), (Start: 217 @54554 has 68 MA's), (Start: 232 @54545 has 2 MA's), (249, 54518), (261, 54503), (307, 54446), (398, 54278), (435, 54200), (440, 54185), (449, 54167), (457, 54155), (472, 54119), (487, 54089), (569, 53996), (573, 53984), (574, 53981), (583, 53960), (585, 53957), (590, 53948), (601, 53930), (635, 53867), (649, 53843), (701, 53738), (748, 53615), (761, 53591), (771, 53564), (775, 53552), (776, 53549), (780, 53531), (787, 53513), (797, 53483), (804, 53456), (826, 53405), (848, 53342), (851, 53333), (883, 53249), (901, 53216), (906, 53201), (933, 53141), (939, 53123), (946, 53111), (953, 53090), (955, 53081), (957, 53078), (1013, 52961), (1022, 52943), (1024, 52937), (1040, 52898), (1041, 52886), (1042, 52883), (1047, 52868), (1054, 52856), (1059, 52844), (1078, 52802), (1083, 52793), (1093, 52772), (1100, 52751),

Gene: ResDef_44 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for ResDef_44:
(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836), (1079, 29827),

Gene: Retro23_45 Start: 31674, Stop: 29887, Start Num: 228
Candidate Starts for Retro23_45:

(Start: 228 @31674 has 960 MA's), (360, 31470), (362, 31467), (366, 31461), (375, 31446), (384, 31431), (399, 31398), (400, 31395), (410, 31368), (424, 31341), (435, 31320), (490, 31188), (570, 31095), (583, 31059), (590, 31047), (595, 31038), (607, 31023), (643, 30957), (686, 30876), (707, 30828), (709, 30822), (742, 30759), (803, 30603), (823, 30552), (835, 30519), (836, 30516), (855, 30450), (871, 30411), (895, 30390), (924, 30315), (929, 30303), (982, 30189), (992, 30171), (1009, 30135), (1013, 30111), (1042, 30033), (1066, 29976), (1073, 29964), (1079, 29955),

Gene: RexFury_36 Start: 28144, Stop: 26360, Start Num: 228
Candidate Starts for RexFury_36:
(Start: 228 @28144 has 960 MA's), (379, 27910), (396, 27880), (398, 27871), (399, 27868), (415, 27823), (424, 27811), (448, 27760), (490, 27658), (498, 27637), (570, 27565), (587, 27520), (590, 27517), (617, 27475), (619, 27469), (626, 27454), (643, 27427), (696, 27322), (701, 27313), (709, 27295), (710, 27292), (729, 27256), (767, 27199), (803, 27076), (821, 27028), (855, 26923), (856, 26920), (895, 26863), (900, 26842), (901, 26839), (922, 26794), (951, 26719), (990, 26650), (1009, 26608), (1013, 26584), (1042, 26506), (1066, 26449), (1073, 26437), (1079, 26428), (1094, 26398), (1100, 26380),

Gene: Rhinoforte_57 Start: 52610, Stop: 50781, Start Num: 190
Candidate Starts for Rhinoforte_57:
(Start: 190 @52610 has 336 MA's), (Start: 232 @52583 has 2 MA's), (Start: 255 @52553 has 8 MA's), (261, 52541), (Start: 276 @52514 has 2 MA's), (278, 52511), (284, 52502), (307, 52484), (362, 52388), (390, 52337), (399, 52313), (406, 52289), (467, 52151), (482, 52127), (487, 52115), (552, 52058), (569, 52022), (573, 52010), (583, 51986), (630, 51902), (648, 51872), (649, 51869), (664, 51839), (727, 51695), (755, 51629), (771, 51590), (775, 51578), (780, 51557), (787, 51539), (804, 51482), (831, 51425), (840, 51398), (848, 51368), (851, 51359), (875, 51293), (897, 51266), (900, 51257), (906, 51239), (919, 51215), (939, 51161), (946, 51149), (953, 51128), (992, 51059), (1013, 50999), (1022, 50981), (1036, 50948), (1040, 50936), (1042, 50921), (1043, 50918), (1047, 50906), (1059, 50882), (1060, 50879), (1082, 50831), (1083, 50828), (1093, 50807), (1100, 50786),

Gene: Rhodalysa_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for Rhodalysa_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (710, 27261), (729, 27225), (803, 27045), (821, 26997), (855, 26892), (856, 26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1079, 26397), (1094, 26367), (1100, 26349),

Gene: RhynO_45 Start: 31292, Stop: 29457, Start Num: 228
Candidate Starts for RhynO_45:
(Start: 228 @31292 has 960 MA's), (263, 31241), (307, 31175), (360, 31088), (373, 31064), (396, 31028), (399, 31016), (424, 30959), (430, 30950), (462, 30866), (480, 30830), (485, 30818), (490, 30806), (570, 30713), (592, 30665), (626, 30605), (694, 30476), (696, 30473), (707, 30452), (709, 30446), (767, 30338), (803, 30215), (821, 30167), (847, 30092), (855, 30062), (871, 30023), (900, 29954), (901, 29951), (919, 29912), (929, 29888), (931, 29882), (935, 29870), (985, 29762), (1013, 29681), (1024, 29657), (1045, 29594), (1066, 29546), (1073, 29534), (1079, 29525),

Gene: Rhynn_44 Start: 34513, Stop: 32687, Start Num: 228
Candidate Starts for Rhynn_44:
(Start: 228 @34513 has 960 MA's), (366, 34300), (399, 34237), (410, 34207), (418, 34186), (424, 34180), (430, 34171), (479, 34054), (490, 34027), (570, 33934), (576, 33919), (590, 33886), (621, 33835), (622, 33832), (659, 33766), (680, 33736), (690, 33706), (709, 33661), (729, 33622), (803, 33442), (821, 33394), (836, 33355), (855, 33289), (871, 33250), (895, 33229), (900, 33208), (906,

33190), (935, 33124), (1009, 32974), (1010, 32971), (1018, 32935), (1032, 32911), (1035, 32902), (1039, 32890), (1066, 32815), (1079, 32794),

Gene: Rich_58 Start: 55836, Stop: 53983, Start Num: 182
Candidate Starts for Rich_58:
(95, 55995), (129, 55914), (Start: 182 @55836 has 33 MA's), (Start: 217 @55791 has 68 MA's), (249, 55755), (293, 55695), (364, 55584), (436, 55434), (457, 55392), (472, 55356), (487, 55326), (569, 55233), (573, 55221), (583, 55197), (590, 55185), (601, 55167), (635, 55104), (649, 55080), (701, 54975), (776, 54786), (780, 54768), (797, 54720), (804, 54693), (812, 54672), (846, 54585), (848, 54579), (851, 54570), (856, 54549), (883, 54486), (901, 54453), (906, 54438), (933, 54378), (939, 54360), (946, 54348), (953, 54327), (955, 54318), (957, 54315), (1013, 54198), (1024, 54174), (1040, 54135), (1042, 54120), (1043, 54117), (1059, 54081), (1060, 54078), (1093, 54009),

Gene: RicoCaldo_10 Start: 8374, Stop: 6176, Start Num: 161
Candidate Starts for RicoCaldo_10:
(Start: 161 @8374 has 21 MA's), (235, 8284), (261, 8248), (Start: 285 @8212 has 1 MA's), (299, 8194), (341, 8143), (356, 8113), (402, 8020), (422, 7963), (430, 7939), (464, 7855), (482, 7816), (516, 7699), (544, 7606), (548, 7594), (571, 7540), (605, 7495), (606, 7492), (654, 7408), (682, 7357), (692, 7324), (714, 7273), (723, 7249), (724, 7246), (753, 7165), (799, 7018), (844, 6880), (857, 6832), (858, 6829), (875, 6757), (880, 6742), (898, 6679), (913, 6649), (1011, 6415), (1013, 6403), (1020, 6382), (1035, 6346), (1036, 6343), (1043, 6313), (1053, 6298), (1064, 6268), (1066, 6259), (1073, 6247),

Gene: Ricotta_60 Start: 54043, Stop: 52184, Start Num: 190
Candidate Starts for Ricotta_60:
(Start: 173 @54067 has 3 MA's), (Start: 190 @54043 has 336 MA's), (Start: 222 @54019 has 3 MA's), (Start: 232 @54013 has 2 MA's), (261, 53971), (274, 53950), (336, 53836), (339, 53830), (355, 53800), (390, 53740), (398, 53719), (416, 53665), (429, 53653), (436, 53635), (440, 53623), (487, 53518), (552, 53461), (569, 53425), (573, 53413), (583, 53389), (590, 53377), (601, 53359), (611, 53341), (622, 53323), (643, 53284), (648, 53275), (649, 53272), (651, 53269), (761, 53014), (796, 52912), (804, 52879), (812, 52858), (848, 52765), (851, 52756), (877, 52693), (900, 52657), (901, 52654), (906, 52639), (939, 52561), (946, 52549), (953, 52528), (976, 52489), (1013, 52399), (1022, 52381), (1024, 52375), (1032, 52360), (1040, 52336), (1042, 52321), (1043, 52318), (1047, 52306), (1059, 52282), (1082, 52234), (1093, 52210),

Gene: RidgeCB_44 Start: 34287, Stop: 32458, Start Num: 228
Candidate Starts for RidgeCB_44:
(Start: 228 @34287 has 960 MA's), (366, 34074), (399, 34011), (410, 33981), (418, 33960), (424, 33954), (479, 33828), (490, 33801), (570, 33708), (576, 33693), (621, 33609), (622, 33606), (659, 33540), (680, 33510), (690, 33480), (709, 33435), (729, 33396), (803, 33216), (821, 33168), (840, 33120), (851, 33081), (855, 33063), (871, 33024), (895, 33003), (900, 32982), (905, 32967), (955, 32844), (1036, 32673), (1041, 32649), (1062, 32601), (1066, 32589), (1079, 32568), (1083, 32562), (1102, 32514), (1109, 32499),

Gene: Rifter_47 Start: 29753, Stop: 27954, Start Num: 228
Candidate Starts for Rifter_47:
(Start: 228 @29753 has 960 MA's), (360, 29549), (366, 29540), (399, 29474), (400, 29471), (410, 29444), (415, 29429), (424, 29417), (448, 29366), (485, 29276), (490, 29264), (570, 29171), (590, 29123), (595, 29114), (693, 28931), (771, 28781), (803, 28676), (823, 28619), (836, 28583), (840, 28574), (847, 28547), (855, 28517), (871, 28478), (895, 28457), (904, 28424), (906, 28418), (949, 28319), (982, 28256), (1009, 28202), (1013, 28178), (1038, 28121), (1066, 28043), (1073, 28031), (1079, 28022), (1082, 28019),

Gene: Riggan_61 Start: 54343, Stop: 52484, Start Num: 190

Candidate Starts for Riggan_61:
(Start: 173 @54367 has 3 MA's), (Start: 190 @54343 has 336 MA's), (Start: 222 @54319 has 3 MA's), (Start: 232 @54313 has 2 MA's), (261, 54271), (274, 54250), (336, 54136), (339, 54130), (355, 54100), (390, 54040), (398, 54019), (416, 53965), (429, 53953), (436, 53935), (440, 53923), (487, 53818), (552, 53761), (569, 53725), (573, 53713), (585, 53686), (601, 53659), (611, 53641), (622, 53623), (643, 53584), (648, 53575), (649, 53572), (761, 53314), (796, 53212), (804, 53179), (812, 53158), (848, 53065), (851, 53056), (877, 52993), (900, 52957), (901, 52954), (906, 52939), (939, 52861), (946, 52849), (953, 52828), (976, 52789), (1013, 52699), (1022, 52681), (1024, 52675), (1032, 52660), (1040, 52636), (1042, 52621), (1043, 52618), (1047, 52606), (1059, 52582), (1082, 52534), (1093, 52510),

Gene: Rimu_60 Start: 54511, Stop: 52652, Start Num: 190
Candidate Starts for Rimu_60:
(Start: 173 @54535 has 3 MA's), (Start: 190 @54511 has 336 MA's), (Start: 222 @54487 has 3 MA's), (Start: 232 @54481 has 2 MA's), (261, 54439), (274, 54418), (336, 54304), (339, 54298), (355, 54268), (390, 54208), (398, 54187), (416, 54133), (429, 54121), (436, 54103), (440, 54091), (487, 53986), (552, 53929), (569, 53893), (573, 53881), (583, 53857), (590, 53845), (601, 53827), (611, 53809), (622, 53791), (643, 53752), (648, 53743), (649, 53740), (651, 53737), (761, 53482), (796, 53380), (804, 53347), (812, 53326), (848, 53233), (851, 53224), (877, 53161), (900, 53125), (901, 53122), (906, 53107), (939, 53029), (946, 53017), (953, 52996), (976, 52957), (1013, 52867), (1022, 52849), (1024, 52843), (1032, 52828), (1040, 52804), (1042, 52789), (1043, 52786), (1047, 52774), (1059, 52750), (1066, 52729), (1082, 52702), (1093, 52678),

Gene: Ringer_46 Start: 35532, Stop: 33745, Start Num: 228
Candidate Starts for Ringer_46:
(Start: 228 @35532 has 960 MA's), (366, 35319), (373, 35304), (410, 35226), (418, 35205), (424, 35199), (430, 35190), (479, 35073), (490, 35046), (570, 34953), (576, 34938), (590, 34905), (621, 34854), (622, 34851), (659, 34785), (680, 34755), (690, 34725), (709, 34680), (729, 34641), (803, 34461), (821, 34413), (836, 34374), (855, 34308), (897, 34236), (900, 34227), (935, 34143), (977, 34056), (1032, 33930), (1036, 33918), (1066, 33834), (1069, 33828),

Gene: Rings_55 Start: 36927, Stop: 34759, Start Num: 213
Candidate Starts for Rings_55:
(212, 36930), (Start: 213 @36927 has 13 MA's), (251, 36873), (299, 36789), (367, 36663), (382, 36636), (387, 36627), (404, 36582), (429, 36504), (432, 36495), (438, 36480), (446, 36465), (447, 36462), (467, 36405), (506, 36312), (520, 36270), (607, 36063), (609, 36057), (622, 36033), (631, 36012), (646, 35991), (653, 35976), (656, 35970), (689, 35907), (709, 35856), (737, 35769), (763, 35709), (778, 35661), (813, 35559), (815, 35553), (824, 35526), (825, 35523), (835, 35502), (848, 35460), (850, 35454), (856, 35430), (876, 35388), (877, 35385), (888, 35358), (896, 35325), (898, 35313), (914, 35277), (924, 35253), (926, 35247), (929, 35241), (950, 35187), (976, 35139), (977, 35136), (1002, 35076), (1009, 35052), (1015, 35022), (1037, 34968), (1054, 34899), (1059, 34887), (1075, 34848),

Gene: Rinkes_56 Start: 54543, Stop: 52693, Start Num: 190
Candidate Starts for Rinkes_56:
(Start: 190 @54543 has 336 MA's), (259, 54474), (274, 54450), (345, 54330), (399, 54228), (406, 54204), (439, 54141), (440, 54138), (449, 54120), (465, 54075), (487, 54033), (552, 53976), (558, 53964), (569, 53940), (573, 53928), (583, 53904), (590, 53892), (635, 53805), (649, 53781), (658, 53763), (660, 53757), (664, 53751), (692, 53691), (707, 53667), (775, 53484), (776, 53481), (787, 53445), (797, 53415), (804, 53388), (812, 53367), (846, 53280), (848, 53274), (851, 53265), (877, 53202), (900, 53166), (901, 53163), (902, 53160), (906, 53148), (919, 53124), (939, 53070), (946, 53058), (953, 53037), (955, 53028), (960, 53019), (992, 52968), (1002, 52953), (1010, 52929), (1013, 52908), (1024, 52884), (1032, 52869), (1040, 52845), (1041, 52833), (1042, 52830), (1059, 52791),

(1067, 52767), (1069, 52764), (1078, 52749), (1093, 52719),

Gene: Rita130_57 Start: 54424, Stop: 52598, Start Num: 182
Candidate Starts for Rita130_57:
(95, 54583), (129, 54502), (Start: 182 @54424 has 33 MA's), (249, 54370), (293, 54310), (364, 54199), (390, 54151), (436, 54049), (457, 54007), (472, 53971), (487, 53941), (569, 53848), (573, 53836), (583, 53812), (590, 53800), (601, 53782), (635, 53719), (649, 53695), (651, 53692), (701, 53590), (776, 53401), (780, 53383), (797, 53335), (804, 53308), (846, 53200), (848, 53194), (851, 53185), (856, 53164), (883, 53101), (901, 53068), (906, 53053), (933, 52993), (939, 52975), (946, 52963), (953, 52942), (955, 52933), (957, 52930), (1013, 52813), (1024, 52789), (1040, 52750), (1042, 52735), (1043, 52732), (1054, 52708), (1059, 52696), (1060, 52693), (1083, 52645), (1093, 52624),

Gene: Rita1961_59 Start: 54042, Stop: 52225, Start Num: 230
Candidate Starts for Rita1961_59:
(110, 54225), (Start: 230 @54042 has 52 MA's), (249, 54012), (366, 53832), (435, 53679), (439, 53667), (452, 53637), (458, 53631), (487, 53568), (489, 53562), (552, 53511), (569, 53475), (590, 53427), (649, 53322), (694, 53226), (722, 53175), (775, 53031), (787, 52992), (797, 52962), (804, 52935), (810, 52923), (846, 52827), (848, 52821), (851, 52812), (854, 52800), (883, 52728), (900, 52698), (906, 52680), (912, 52671), (939, 52602), (946, 52590), (953, 52569), (992, 52500), (1002, 52485), (1010, 52461), (1024, 52416), (1040, 52377), (1043, 52359), (1047, 52347), (1054, 52335), (1059, 52323), (1078, 52281), (1093, 52251),

Gene: Riverton_60 Start: 54271, Stop: 52412, Start Num: 190
Candidate Starts for Riverton_60:
(Start: 173 @54295 has 3 MA's), (Start: 190 @54271 has 336 MA's), (Start: 222 @54247 has 3 MA's), (Start: 232 @54241 has 2 MA's), (261, 54199), (274, 54178), (336, 54064), (339, 54058), (355, 54028), (390, 53968), (398, 53947), (416, 53893), (429, 53881), (436, 53863), (440, 53851), (487, 53746), (552, 53689), (569, 53653), (573, 53641), (585, 53614), (590, 53605), (611, 53569), (643, 53512), (648, 53503), (649, 53500), (651, 53497), (761, 53242), (796, 53140), (804, 53107), (812, 53086), (848, 52993), (851, 52984), (877, 52921), (900, 52885), (901, 52882), (906, 52867), (939, 52789), (946, 52777), (953, 52756), (976, 52717), (1013, 52627), (1022, 52609), (1024, 52603), (1032, 52588), (1040, 52564), (1042, 52549), (1043, 52546), (1047, 52534), (1059, 52510), (1082, 52462), (1093, 52438),

Gene: Riyhil_39 Start: 28940, Stop: 27075, Start Num: 301
Candidate Starts for Riyhil_39:
(Start: 241 @29027 has 3 MA's), (Start: 243 @29024 has 1 MA's), (Start: 301 @28940 has 153 MA's), (Start: 305 @28931 has 5 MA's), (353, 28826), (360, 28817), (378, 28787), (380, 28784), (435, 28664), (439, 28652), (442, 28646), (483, 28541), (494, 28514), (582, 28373), (585, 28367), (586, 28364), (590, 28352), (606, 28325), (607, 28322), (614, 28307), (618, 28301), (621, 28295), (638, 28262), (701, 28133), (726, 28073), (847, 27758), (850, 27749), (851, 27746), (855, 27728), (873, 27686), (877, 27680), (879, 27671), (888, 27656), (908, 27599), (974, 27440), (989, 27410), (992, 27401), (1010, 27341), (1013, 27317), (1028, 27278), (1040, 27245), (1044, 27233), (1068, 27173),

Gene: Roary_43 Start: 30556, Stop: 28712, Start Num: 228
Candidate Starts for Roary_43:
(119, 30721), (Start: 228 @30556 has 960 MA's), (263, 30505), (343, 30382), (360, 30352), (384, 30313), (399, 30280), (410, 30250), (418, 30229), (424, 30223), (430, 30214), (465, 30121), (490, 30070), (570, 29974), (574, 29962), (580, 29947), (587, 29929), (590, 29926), (595, 29917), (626, 29863), (643, 29836), (670, 29788), (709, 29704), (733, 29653), (744, 29638), (798, 29491), (803, 29470), (815, 29440), (821, 29422), (823, 29419), (830, 29404), (836, 29383), (840, 29374), (847, 29347), (851, 29335), (855, 29317), (900, 29236), (904, 29224), (929, 29170), (942, 29134), (977, 29065), (990, 29044), (992, 29038), (1010, 28999), (1013, 28978), (1022, 28960), (1066, 28843),

(1073, 28831),

Gene: Roberts_40 Start: 28660, Stop: 26870, Start Num: 214
Candidate Starts for Roberts_40:
(168, 28720), (188, 28696), (205, 28675), (Start: 214 @28660 has 2 MA's), (Start: 221 @28651 has 14 MA's), (299, 28528), (328, 28480), (411, 28342), (413, 28336), (439, 28288), (482, 28207), (483, 28201), (493, 28177), (570, 28108), (613, 28027), (626, 28000), (633, 27985), (672, 27922), (697, 27865), (709, 27841), (712, 27835), (729, 27799), (748, 27763), (783, 27691), (798, 27649), (806, 27622), (841, 27526), (848, 27502), (855, 27475), (871, 27436), (902, 27361), (932, 27292), (951, 27244), (958, 27223), (986, 27169), (991, 27154), (1014, 27088), (1038, 27031), (1042, 27010), (1043, 27007), (1049, 26989), (1059, 26974),

Gene: Robinson_39 Start: 28928, Stop: 27063, Start Num: 301
Candidate Starts for Robinson_39:
(Start: 241 @29015 has 3 MA's), (Start: 243 @29012 has 1 MA's), (Start: 301 @28928 has 153 MA's), (Start: 305 @28919 has 5 MA's), (353, 28814), (360, 28805), (378, 28775), (380, 28772), (435, 28652), (439, 28640), (442, 28634), (483, 28529), (494, 28502), (582, 28361), (585, 28355), (586, 28352), (590, 28340), (606, 28313), (607, 28310), (614, 28295), (618, 28289), (621, 28283), (638, 28250), (701, 28121), (726, 28061), (847, 27746), (850, 27737), (851, 27734), (855, 27716), (873, 27674), (877, 27668), (879, 27659), (888, 27644), (908, 27587), (974, 27428), (989, 27398), (992, 27389), (1010, 27329), (1013, 27305), (1028, 27266), (1040, 27233), (1044, 27221), (1068, 27161),

Gene: Robyn_60 Start: 54190, Stop: 52331, Start Num: 190
Candidate Starts for Robyn_60:
(33, 54586), (54, 54499), (57, 54484), (60, 54478), (65, 54463), (70, 54445), (Start: 173 @54214 has 3 MA's), (Start: 190 @54190 has 336 MA's), (Start: 222 @54166 has 3 MA's), (Start: 232 @54160 has 2 MA's), (261, 54118), (274, 54097), (336, 53983), (339, 53977), (355, 53947), (390, 53887), (398, 53866), (416, 53812), (429, 53800), (440, 53770), (487, 53665), (552, 53608), (569, 53572), (573, 53560), (585, 53533), (590, 53524), (611, 53488), (622, 53470), (643, 53431), (648, 53422), (649, 53419), (796, 53059), (804, 53026), (812, 53005), (848, 52912), (851, 52903), (877, 52840), (900, 52804), (901, 52801), (906, 52786), (939, 52708), (946, 52696), (953, 52675), (976, 52636), (1013, 52546), (1022, 52528), (1024, 52522), (1032, 52507), (1040, 52483), (1042, 52468), (1043, 52465), (1047, 52453), (1059, 52429), (1082, 52381), (1093, 52357),

Gene: RockScotty_37 Start: 27507, Stop: 29489, Start Num: 227
Candidate Starts for RockScotty_37:
(Start: 227 @27507 has 33 MA's), (343, 27681), (360, 27711), (386, 27744), (400, 27777), (435, 27852), (447, 27879), (489, 27981), (544, 28080), (626, 28254), (643, 28281), (707, 28410), (768, 28548), (795, 28635), (803, 28668), (815, 28698), (836, 28755), (855, 28821), (898, 28914), (934, 29001), (1013, 29181), (1024, 29205), (1066, 29316), (1114, 29424),

Gene: Rockabye_99 Start: 71684, Stop: 73480, Start Num: 238
Candidate Starts for Rockabye_99:
(Start: 238 @71684 has 11 MA's), (Start: 276 @71747 has 2 MA's), (299, 71780), (390, 71915), (429, 71996), (439, 72023), (442, 72029), (493, 72134), (566, 72191), (613, 72281), (626, 72308), (633, 72323), (729, 72512), (735, 72527), (774, 72608), (783, 72641), (796, 72671), (798, 72680), (803, 72701), (806, 72707), (845, 72824), (870, 72908), (898, 72974), (902, 72986), (919, 73022), (932, 73055), (953, 73109), (966, 73136), (1014, 73259), (1016, 73265), (1036, 73307), (1038, 73313), (1041, 73331), (1066, 73391), (1094, 73442),

Gene: RockieBear_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for RockieBear_44:

(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Rocksand_45 Start: 31566, Stop: 29740, Start Num: 228
Candidate Starts for Rocksand_45:
(Start: 228 @31566 has 960 MA's), (Start: 241 @31545 has 3 MA's), (263, 31515), (278, 31485), (384, 31323), (394, 31305), (424, 31233), (430, 31224), (480, 31104), (490, 31080), (570, 30987), (592, 30939), (607, 30918), (626, 30879), (696, 30747), (707, 30726), (729, 30681), (733, 30669), (798, 30516), (803, 30495), (847, 30372), (855, 30342), (871, 30303), (900, 30237), (901, 30234), (906, 30219), (919, 30195), (929, 30171), (1013, 29964), (1066, 29829), (1073, 29817), (1079, 29808),

Gene: Rockstar_45 Start: 30972, Stop: 29134, Start Num: 228
Candidate Starts for Rockstar_45:
(171, 31044), (Start: 228 @30972 has 960 MA's), (263, 30921), (360, 30768), (384, 30729), (399, 30696), (424, 30639), (430, 30630), (435, 30618), (480, 30510), (490, 30486), (570, 30390), (592, 30342), (626, 30282), (696, 30150), (707, 30129), (742, 30060), (767, 30015), (778, 29973), (803, 29892), (836, 29805), (847, 29769), (855, 29739), (901, 29628), (919, 29589), (929, 29565), (935, 29547), (990, 29424), (992, 29418), (1013, 29358), (1066, 29223), (1073, 29211), (1079, 29202),

Gene: Rog141_38 Start: 28619, Stop: 26754, Start Num: 301
Candidate Starts for Rog141_38:
(Start: 241 @28706 has 3 MA's), (Start: 243 @28703 has 1 MA's), (Start: 301 @28619 has 153 MA's), (Start: 305 @28610 has 5 MA's), (353, 28505), (360, 28496), (378, 28466), (380, 28463), (435, 28343), (439, 28331), (442, 28325), (483, 28220), (494, 28193), (582, 28052), (585, 28046), (586, 28043), (590, 28031), (606, 28004), (607, 28001), (614, 27986), (618, 27980), (621, 27974), (638, 27941), (701, 27812), (726, 27752), (847, 27437), (850, 27428), (851, 27425), (855, 27407), (873, 27365), (877, 27359), (879, 27350), (888, 27335), (908, 27278), (974, 27119), (989, 27089), (992, 27080), (1010, 27020), (1013, 26996), (1028, 26957), (1040, 26924), (1044, 26912), (1068, 26852),

Gene: Rohr_45 Start: 34984, Stop: 33155, Start Num: 228
Candidate Starts for Rohr_45:
(Start: 228 @34984 has 960 MA's), (366, 34771), (373, 34756), (399, 34708), (410, 34678), (418, 34657), (424, 34651), (430, 34642), (479, 34525), (490, 34498), (570, 34405), (576, 34390), (621, 34306), (622, 34303), (659, 34237), (680, 34207), (690, 34177), (709, 34132), (729, 34093), (803, 33913), (821, 33865), (840, 33817), (851, 33778), (855, 33760), (871, 33721), (895, 33700), (900, 33679), (955, 33541), (1036, 33370), (1041, 33346), (1057, 33313), (1062, 33298), (1066, 33286), (1079, 33265), (1083, 33259), (1102, 33211), (1109, 33196),

Gene: Roimos_45 Start: 31351, Stop: 29513, Start Num: 228
Candidate Starts for Roimos_45:
(171, 31423), (Start: 228 @31351 has 960 MA's), (263, 31300), (360, 31147), (396, 31087), (399, 31075), (424, 31018), (430, 31009), (435, 30997), (480, 30889), (490, 30865), (570, 30769), (592, 30721), (626, 30661), (663, 30598), (696, 30529), (707, 30508), (742, 30439), (746, 30433), (767, 30394), (803, 30271), (836, 30184), (847, 30148), (855, 30118), (869, 30088), (901, 30007), (919, 29968), (929, 29944), (935, 29926), (992, 29797), (1013, 29737), (1066, 29602), (1073, 29590), (1079, 29581),

Gene: Roksolana_46 Start: 29675, Stop: 27834, Start Num: 228
Candidate Starts for Roksolana_46:

(Start: 200 @29705 has 1 MA's), (Start: 228 @29675 has 960 MA's), (360, 29471), (399, 29396), (400, 29393), (410, 29366), (415, 29351), (424, 29339), (448, 29288), (485, 29198), (490, 29186), (570, 29093), (585, 29054), (595, 29036), (607, 29021), (643, 28955), (660, 28922), (663, 28919), (710, 28817), (742, 28757), (778, 28673), (803, 28592), (835, 28508), (836, 28505), (840, 28496), (847, 28469), (855, 28439), (895, 28379), (906, 28340), (1009, 28124), (1010, 28121), (1013, 28100), (1066, 27965), (1073, 27953), (1079, 27944), (1082, 27941), (1115, 27848),

Gene: Roliet_58 Start: 53385, Stop: 51526, Start Num: 190
Candidate Starts for Roliet_58:
(Start: 173 @53409 has 3 MA's), (Start: 190 @53385 has 336 MA's), (Start: 222 @53361 has 3 MA's), (Start: 232 @53355 has 2 MA's), (261, 53313), (274, 53292), (336, 53178), (339, 53172), (355, 53142), (390, 53082), (398, 53061), (416, 53007), (429, 52995), (436, 52977), (440, 52965), (487, 52860), (552, 52803), (569, 52767), (573, 52755), (585, 52728), (590, 52719), (611, 52683), (643, 52626), (648, 52617), (649, 52614), (651, 52611), (761, 52356), (796, 52254), (804, 52221), (812, 52200), (848, 52107), (851, 52098), (877, 52035), (900, 51999), (901, 51996), (906, 51981), (939, 51903), (946, 51891), (953, 51870), (976, 51831), (1013, 51741), (1022, 51723), (1024, 51717), (1032, 51702), (1040, 51678), (1042, 51663), (1043, 51660), (1047, 51648), (1059, 51624), (1082, 51576), (1093, 51552),

Gene: Rollins_40 Start: 27521, Stop: 29389, Start Num: 215
Candidate Starts for Rollins_40:
(Start: 215 @27521 has 12 MA's), (Start: 217 @27524 has 68 MA's), (220, 27527), (Start: 273 @27596 has 1 MA's), (436, 27878), (448, 27905), (473, 27959), (585, 28124), (626, 28199), (637, 28220), (784, 28574), (803, 28634), (823, 28685), (845, 28751), (855, 28787), (898, 28880), (973, 29051), (1009, 29123), (1038, 29204), (1065, 29279), (1066, 29282), (1079, 29303), (1108, 29372),

Gene: RomaT_58 Start: 54241, Stop: 52424, Start Num: 230
Candidate Starts for RomaT_58:
(110, 54424), (Start: 230 @54241 has 52 MA's), (249, 54211), (366, 54031), (435, 53878), (439, 53866), (452, 53836), (458, 53830), (487, 53767), (489, 53761), (552, 53710), (566, 53683), (569, 53674), (590, 53626), (649, 53521), (694, 53425), (722, 53374), (775, 53230), (787, 53191), (797, 53161), (804, 53134), (810, 53122), (846, 53026), (848, 53020), (851, 53011), (854, 52999), (883, 52927), (900, 52897), (906, 52879), (912, 52870), (939, 52801), (946, 52789), (953, 52768), (992, 52699), (1002, 52684), (1010, 52660), (1013, 52639), (1022, 52621), (1024, 52615), (1038, 52582), (1040, 52576), (1043, 52558), (1047, 52546), (1054, 52534), (1059, 52522), (1078, 52480), (1093, 52450),

Gene: Romney_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Romney_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Rona_40 Start: 29912, Stop: 31783, Start Num: 217
Candidate Starts for Rona_40:
(Start: 217 @29912 has 68 MA's), (346, 30095), (369, 30134), (386, 30152), (414, 30224), (430, 30248), (435, 30260), (436, 30263), (473, 30344), (602, 30536), (626, 30584), (681, 30674), (741, 30815), (784, 30938), (803, 30998), (830, 31064), (833, 31079), (845, 31115), (848, 31124), (855, 31151), (898, 31244), (936, 31337), (973, 31415), (1009, 31487), (1018, 31526), (1038, 31568), (1058, 31622), (1066, 31646), (1079, 31667), (1090, 31691),

Gene: Roosevelt_44 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Roosevelt_44:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Rosa24_44 Start: 31601, Stop: 29775, Start Num: 228
Candidate Starts for Rosa24_44:
(Start: 228 @31601 has 960 MA's), (Start: 241 @31580 has 3 MA's), (263, 31550), (278, 31520), (384, 31358), (394, 31340), (424, 31268), (430, 31259), (480, 31139), (490, 31115), (570, 31022), (592, 30974), (607, 30953), (626, 30914), (696, 30782), (707, 30761), (729, 30716), (733, 30704), (798, 30551), (803, 30530), (847, 30407), (855, 30377), (871, 30338), (900, 30272), (901, 30269), (906, 30254), (919, 30230), (929, 30206), (1013, 29999), (1066, 29864), (1073, 29852), (1079, 29843),

Gene: Rosalind_46 Start: 29862, Stop: 28072, Start Num: 228
Candidate Starts for Rosalind_46:
(Start: 228 @29862 has 960 MA's), (343, 29688), (399, 29583), (400, 29580), (410, 29553), (424, 29526), (448, 29475), (490, 29373), (570, 29280), (587, 29235), (590, 29232), (595, 29223), (686, 29061), (696, 29034), (707, 29013), (709, 29007), (768, 28908), (778, 28869), (796, 28818), (803, 28788), (823, 28737), (835, 28704), (845, 28671), (847, 28665), (855, 28635), (895, 28575), (900, 28554), (919, 28512), (930, 28485), (935, 28470), (977, 28383), (1009, 28320), (1010, 28317), (1066, 28161), (1073, 28149), (1082, 28137),

Gene: Roscoe_61 Start: 54489, Stop: 52630, Start Num: 190
Candidate Starts for Roscoe_61:
(Start: 173 @54513 has 3 MA's), (Start: 190 @54489 has 336 MA's), (Start: 222 @54465 has 3 MA's), (Start: 232 @54459 has 2 MA's), (261, 54417), (274, 54396), (336, 54282), (339, 54276), (355, 54246), (390, 54186), (398, 54165), (416, 54111), (429, 54099), (436, 54081), (440, 54069), (487, 53964), (552, 53907), (569, 53871), (573, 53859), (585, 53832), (590, 53823), (611, 53787), (643, 53730), (648, 53721), (649, 53718), (651, 53715), (796, 53358), (804, 53325), (812, 53304), (848, 53211), (851, 53202), (877, 53139), (900, 53103), (901, 53100), (906, 53085), (939, 53007), (946, 52995), (953, 52974), (976, 52935), (1013, 52845), (1022, 52827), (1024, 52821), (1032, 52806), (1040, 52782), (1042, 52767), (1043, 52764), (1047, 52752), (1059, 52728), (1082, 52680), (1093, 52656),

Gene: Rosebush_56 Start: 52637, Stop: 50808, Start Num: 190
Candidate Starts for Rosebush_56:
(Start: 190 @52637 has 336 MA's), (Start: 232 @52610 has 2 MA's), (Start: 255 @52580 has 8 MA's), (261, 52568), (Start: 276 @52541 has 2 MA's), (278, 52538), (284, 52529), (307, 52511), (362, 52415), (390, 52364), (399, 52340), (467, 52178), (482, 52154), (487, 52142), (552, 52085), (569, 52049), (573, 52037), (583, 52013), (627, 51935), (630, 51929), (635, 51920), (648, 51899), (649, 51896), (664, 51866), (727, 51722), (755, 51656), (775, 51605), (780, 51584), (787, 51566), (804, 51509), (831, 51452), (840, 51425), (848, 51395), (851, 51386), (875, 51320), (897, 51293), (900, 51284), (906, 51266), (919, 51242), (939, 51188), (946, 51176), (953, 51155), (992, 51086), (1013, 51026), (1022, 51008), (1036, 50975), (1040, 50963), (1042, 50948), (1043, 50945), (1047, 50933), (1059, 50909), (1060, 50906), (1082, 50858), (1083, 50855), (1093, 50834), (1100, 50813),

Gene: RosieMae_38 Start: 28677, Stop: 26812, Start Num: 301
Candidate Starts for RosieMae_38:
(Start: 241 @28764 has 3 MA's), (Start: 243 @28761 has 1 MA's), (Start: 301 @28677 has 153 MA's), (Start: 305 @28668 has 5 MA's), (353, 28563), (360, 28554), (378, 28524), (380, 28521), (435, 28401), (439, 28389), (442, 28383), (483, 28278), (494, 28251), (582, 28110), (585, 28104), (586, 28101),

(590, 28089), (606, 28062), (607, 28059), (614, 28044), (618, 28038), (621, 28032), (638, 27999), (701, 27870), (726, 27810), (847, 27495), (850, 27486), (851, 27483), (855, 27465), (873, 27423), (877, 27417), (879, 27408), (888, 27393), (908, 27336), (974, 27177), (989, 27147), (992, 27138), (1010, 27078), (1013, 27054), (1028, 27015), (1040, 26982), (1044, 26970), (1068, 26910),

Gene: Rowa_41 Start: 29682, Stop: 31553, Start Num: 228
Candidate Starts for Rowa_41:
(204, 29652), (212, 29661), (Start: 228 @29682 has 960 MA's), (410, 29994), (430, 30045), (466, 30141), (473, 30153), (565, 30264), (594, 30333), (595, 30336), (626, 30396), (633, 30411), (635, 30414), (686, 30501), (690, 30510), (707, 30549), (733, 30612), (735, 30615), (783, 30753), (784, 30756), (793, 30774), (796, 30786), (798, 30795), (803, 30816), (806, 30822), (821, 30864), (835, 30900), (836, 30903), (847, 30939), (848, 30942), (853, 30960), (855, 30969), (869, 30999), (879, 31023), (932, 31143), (936, 31155), (945, 31173), (949, 31185), (952, 31194), (973, 31233), (975, 31236), (977, 31242), (981, 31248), (1007, 31296), (1032, 31368), (1041, 31404), (1066, 31464), (1106, 31548),

Gene: Rowdy_48 Start: 31200, Stop: 29365, Start Num: 228
Candidate Starts for Rowdy_48:
(Start: 228 @31200 has 960 MA's), (263, 31149), (307, 31083), (360, 30996), (373, 30972), (396, 30936), (399, 30924), (424, 30867), (430, 30858), (462, 30774), (480, 30738), (485, 30726), (490, 30714), (570, 30621), (592, 30573), (626, 30513), (694, 30384), (696, 30381), (707, 30360), (709, 30354), (767, 30246), (803, 30123), (821, 30075), (847, 30000), (855, 29970), (871, 29931), (900, 29862), (901, 29859), (919, 29820), (929, 29796), (931, 29790), (935, 29778), (985, 29670), (1013, 29589), (1024, 29565), (1045, 29502), (1066, 29454), (1073, 29442), (1079, 29433),

Gene: Roy17_59 Start: 53743, Stop: 51884, Start Num: 190
Candidate Starts for Roy17_59:
(Start: 173 @53767 has 3 MA's), (Start: 190 @53743 has 336 MA's), (Start: 222 @53719 has 3 MA's), (Start: 232 @53713 has 2 MA's), (261, 53671), (274, 53650), (336, 53536), (339, 53530), (355, 53500), (390, 53440), (398, 53419), (416, 53365), (429, 53353), (436, 53335), (440, 53323), (487, 53218), (552, 53161), (569, 53125), (573, 53113), (585, 53086), (601, 53059), (611, 53041), (622, 53023), (643, 52984), (648, 52975), (649, 52972), (651, 52969), (796, 52612), (804, 52579), (812, 52558), (848, 52465), (851, 52456), (877, 52393), (900, 52357), (901, 52354), (906, 52339), (939, 52261), (946, 52249), (953, 52228), (976, 52189), (1013, 52099), (1022, 52081), (1024, 52075), (1032, 52060), (1040, 52036), (1042, 52021), (1043, 52018), (1047, 52006), (1059, 51982), (1082, 51934), (1093, 51910),

Gene: Rubeus_45 Start: 33074, Stop: 31248, Start Num: 228
Candidate Starts for Rubeus_45:
(Start: 228 @33074 has 960 MA's), (366, 32861), (399, 32798), (410, 32768), (418, 32747), (424, 32741), (430, 32732), (479, 32615), (490, 32588), (570, 32495), (576, 32480), (621, 32396), (622, 32393), (659, 32327), (680, 32297), (690, 32267), (709, 32222), (729, 32183), (803, 32003), (821, 31955), (836, 31916), (855, 31850), (871, 31811), (895, 31790), (900, 31769), (906, 31751), (935, 31685), (1009, 31535), (1010, 31532), (1018, 31496), (1032, 31472), (1035, 31463), (1039, 31451), (1066, 31376), (1079, 31355),

Gene: Rufus_45 Start: 34607, Stop: 32778, Start Num: 228
Candidate Starts for Rufus_45:
(Start: 228 @34607 has 960 MA's), (366, 34394), (399, 34331), (410, 34301), (418, 34280), (424, 34274), (430, 34265), (479, 34148), (490, 34121), (570, 34028), (576, 34013), (621, 33929), (622, 33926), (659, 33860), (680, 33830), (690, 33800), (709, 33755), (729, 33716), (803, 33536), (821, 33488), (840, 33440), (851, 33401), (855, 33383), (871, 33344), (895, 33323), (900, 33302), (955, 33164), (1036, 32993), (1041, 32969), (1057, 32936), (1062, 32921), (1066, 32909), (1079, 32888),

(1083, 32882), (1102, 32834), (1109, 32819),

Gene: Ruin_45 Start: 31563, Stop: 29737, Start Num: 228
Candidate Starts for Ruin_45:
(Start: 228 @31563 has 960 MA's), (Start: 241 @31542 has 3 MA's), (263, 31512), (278, 31482), (384, 31320), (394, 31302), (424, 31230), (430, 31221), (480, 31101), (490, 31077), (570, 30984), (592, 30936), (607, 30915), (626, 30876), (696, 30744), (707, 30723), (729, 30678), (733, 30666), (798, 30513), (803, 30492), (847, 30369), (855, 30339), (871, 30300), (900, 30234), (901, 30231), (906, 30216), (919, 30192), (929, 30168), (1013, 29961), (1066, 29826), (1073, 29814), (1079, 29805),

Gene: Rummer_47 Start: 31884, Stop: 30070, Start Num: 228
Candidate Starts for Rummer_47:
(Start: 228 @31884 has 960 MA's), (257, 31845), (263, 31833), (360, 31680), (369, 31665), (399, 31608), (424, 31551), (430, 31542), (448, 31500), (465, 31449), (490, 31398), (552, 31344), (570, 31305), (590, 31257), (607, 31233), (626, 31194), (643, 31167), (659, 31137), (703, 31044), (709, 31032), (732, 30984), (742, 30969), (803, 30813), (823, 30762), (835, 30729), (836, 30726), (855, 30660), (871, 30621), (901, 30549), (919, 30510), (929, 30486), (935, 30468), (949, 30435), (992, 30354), (1013, 30294), (1045, 30207), (1066, 30159), (1073, 30147), (1079, 30138), (1082, 30135),

Gene: RunningOnE_16 Start: 7881, Stop: 5869, Start Num: 226
Candidate Starts for RunningOnE_16:
(Start: 226 @7881 has 1 MA's), (Start: 241 @7860 has 3 MA's), (261, 7836), (263, 7833), (366, 7662), (379, 7641), (384, 7632), (400, 7596), (448, 7491), (458, 7461), (480, 7413), (490, 7389), (505, 7347), (552, 7182), (570, 7143), (585, 7104), (626, 7026), (637, 7005), (651, 6984), (781, 6708), (784, 6699), (793, 6681), (803, 6639), (806, 6633), (840, 6540), (843, 6525), (846, 6516), (855, 6483), (887, 6417), (896, 6378), (965, 6207), (992, 6162), (1007, 6135), (1036, 6051), (1066, 5967),

Gene: Ruotula_48 Start: 36337, Stop: 34550, Start Num: 228
Candidate Starts for Ruotula_48:
(Start: 228 @36337 has 960 MA's), (366, 36124), (373, 36109), (399, 36061), (410, 36031), (418, 36010), (424, 36004), (430, 35995), (479, 35878), (490, 35851), (570, 35758), (576, 35743), (590, 35710), (621, 35659), (622, 35656), (659, 35590), (680, 35560), (690, 35530), (709, 35485), (729, 35446), (803, 35266), (821, 35218), (836, 35179), (855, 35113), (897, 35041), (900, 35032), (935, 34948), (977, 34861), (1032, 34735), (1036, 34723), (1058, 34663), (1066, 34639), (1069, 34633),

Gene: Rutherferd_47 Start: 35726, Stop: 33900, Start Num: 228
Candidate Starts for Rutherferd_47:
(Start: 228 @35726 has 960 MA's), (379, 35492), (399, 35450), (410, 35420), (418, 35399), (424, 35393), (430, 35384), (479, 35267), (490, 35240), (570, 35147), (576, 35132), (590, 35099), (621, 35048), (622, 35045), (659, 34979), (680, 34949), (690, 34919), (709, 34874), (729, 34835), (803, 34655), (821, 34607), (836, 34568), (855, 34502), (871, 34463), (895, 34442), (900, 34421), (906, 34403), (935, 34337), (1009, 34187), (1010, 34184), (1018, 34148), (1032, 34124), (1039, 34103), (1066, 34028), (1079, 34007),

Gene: RyeScarlet_46 Start: 31507, Stop: 29714, Start Num: 228
Candidate Starts for RyeScarlet_46:
(Start: 228 @31507 has 960 MA's), (235, 31498), (263, 31456), (342, 31336), (343, 31333), (370, 31285), (400, 31225), (411, 31195), (415, 31183), (424, 31171), (490, 31018), (570, 30925), (643, 30787), (659, 30757), (733, 30598), (742, 30586), (764, 30559), (798, 30451), (803, 30430), (851, 30295), (855, 30277), (900, 30196), (919, 30154), (949, 30079), (990, 30004), (1009, 29962), (1042, 29860), (1066, 29803), (1073, 29791), (1079, 29782),

Gene: SDcharge11_60 Start: 53557, Stop: 51698, Start Num: 190

Candidate Starts for SDcharge11_60:
(Start: 173 @53581 has 3 MA's), (Start: 190 @53557 has 336 MA's), (Start: 222 @53533 has 3 MA's), (Start: 232 @53527 has 2 MA's), (249, 53500), (261, 53485), (274, 53464), (336, 53350), (339, 53344), (355, 53314), (390, 53254), (398, 53233), (416, 53179), (429, 53167), (436, 53149), (440, 53137), (487, 53032), (552, 52975), (569, 52939), (573, 52927), (585, 52900), (590, 52891), (611, 52855), (643, 52798), (648, 52789), (649, 52786), (651, 52783), (796, 52426), (804, 52393), (812, 52372), (848, 52279), (851, 52270), (877, 52207), (900, 52171), (901, 52168), (906, 52153), (939, 52075), (946, 52063), (953, 52042), (976, 52003), (1013, 51913), (1022, 51895), (1024, 51889), (1032, 51874), (1040, 51850), (1042, 51835), (1043, 51832), (1047, 51820), (1059, 51796), (1082, 51748), (1093, 51724),

Gene: SJReid_103 Start: 70795, Stop: 72594, Start Num: 238
Candidate Starts for SJReid_103:
(208, 70753), (Start: 238 @70795 has 11 MA's), (Start: 276 @70858 has 2 MA's), (Start: 296 @70888 has 13 MA's), (299, 70891), (390, 71026), (429, 71107), (439, 71134), (442, 71140), (493, 71245), (566, 71302), (613, 71392), (626, 71419), (633, 71434), (761, 71680), (774, 71719), (783, 71752), (798, 71791), (803, 71812), (806, 71818), (835, 71902), (843, 71929), (845, 71935), (870, 72019), (879, 72037), (898, 72085), (902, 72097), (919, 72133), (932, 72166), (953, 72220), (1014, 72370), (1022, 72385), (1036, 72418), (1038, 72424), (1041, 72442), (1049, 72466), (1065, 72499), (1066, 72502),

Gene: SJay_39 Start: 28931, Stop: 27066, Start Num: 301
Candidate Starts for SJay_39:
(Start: 241 @29018 has 3 MA's), (Start: 301 @28931 has 153 MA's), (Start: 305 @28922 has 5 MA's), (353, 28817), (360, 28808), (378, 28778), (380, 28775), (435, 28655), (439, 28643), (442, 28637), (483, 28532), (494, 28505), (582, 28364), (585, 28358), (586, 28355), (590, 28343), (606, 28316), (607, 28313), (614, 28298), (618, 28292), (621, 28286), (638, 28253), (701, 28124), (726, 28064), (847, 27749), (850, 27740), (851, 27737), (855, 27719), (873, 27677), (877, 27671), (888, 27647), (908, 27590), (974, 27431), (989, 27401), (992, 27392), (1010, 27332), (1013, 27308), (1028, 27269), (1040, 27236), (1044, 27224), (1068, 27164),

Gene: STLscum_46 Start: 35717, Stop: 33930, Start Num: 228
Candidate Starts for STLscum_46:
(Start: 228 @35717 has 960 MA's), (366, 35504), (399, 35441), (410, 35411), (418, 35390), (424, 35384), (430, 35375), (479, 35258), (490, 35231), (570, 35138), (576, 35123), (621, 35039), (622, 35036), (659, 34970), (680, 34940), (690, 34910), (709, 34865), (729, 34826), (803, 34646), (821, 34598), (836, 34559), (855, 34493), (897, 34421), (900, 34412), (935, 34328), (977, 34241), (1032, 34115), (1036, 34103), (1058, 34043), (1066, 34019), (1069, 34013),

Gene: Sabella_56 Start: 52482, Stop: 50653, Start Num: 190
Candidate Starts for Sabella_56:
(Start: 190 @52482 has 336 MA's), (Start: 232 @52455 has 2 MA's), (Start: 255 @52425 has 8 MA's), (261, 52413), (Start: 276 @52386 has 2 MA's), (278, 52383), (284, 52374), (307, 52356), (362, 52260), (390, 52209), (399, 52185), (467, 52023), (476, 52008), (482, 51999), (487, 51987), (552, 51930), (569, 51894), (573, 51882), (583, 51858), (630, 51774), (648, 51744), (649, 51741), (664, 51711), (727, 51567), (755, 51501), (775, 51450), (780, 51429), (787, 51411), (804, 51354), (840, 51270), (848, 51240), (851, 51231), (875, 51165), (897, 51138), (900, 51129), (906, 51111), (919, 51087), (939, 51033), (946, 51021), (953, 51000), (992, 50931), (1013, 50871), (1022, 50853), (1036, 50820), (1040, 50808), (1042, 50793), (1043, 50790), (1047, 50778), (1059, 50754), (1060, 50751), (1082, 50703), (1083, 50700), (1093, 50679), (1100, 50658),

Gene: Sabertooth_45 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Sabertooth_45:

(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Sabia_48 Start: 31846, Stop: 30032, Start Num: 228
Candidate Starts for Sabia_48:
(Start: 228 @31846 has 960 MA's), (257, 31807), (263, 31795), (360, 31642), (369, 31627), (399, 31570), (424, 31513), (430, 31504), (448, 31462), (465, 31411), (490, 31360), (570, 31267), (590, 31219), (595, 31210), (607, 31195), (626, 31156), (643, 31129), (659, 31099), (703, 31006), (732, 30946), (742, 30931), (803, 30775), (836, 30688), (855, 30622), (871, 30583), (901, 30511), (919, 30472), (929, 30448), (935, 30430), (949, 30397), (958, 30370), (992, 30316), (1013, 30256), (1042, 30178), (1066, 30121), (1073, 30109), (1079, 30100),

Gene: Sabinator_47 Start: 31851, Stop: 30037, Start Num: 228
Candidate Starts for Sabinator_47:
(Start: 228 @31851 has 960 MA's), (257, 31812), (263, 31800), (360, 31647), (369, 31632), (399, 31575), (424, 31518), (430, 31509), (448, 31467), (465, 31416), (490, 31365), (570, 31272), (590, 31224), (595, 31215), (607, 31200), (626, 31161), (643, 31134), (659, 31104), (703, 31011), (742, 30936), (803, 30780), (836, 30693), (855, 30627), (871, 30588), (901, 30516), (919, 30477), (929, 30453), (935, 30435), (949, 30402), (958, 30375), (992, 30321), (1013, 30261), (1042, 30183), (1066, 30126), (1073, 30114), (1079, 30105),

Gene: Sabourin_38 Start: 27589, Stop: 29571, Start Num: 227
Candidate Starts for Sabourin_38:
(Start: 227 @27589 has 33 MA's), (343, 27763), (386, 27826), (400, 27859), (435, 27934), (544, 28162), (626, 28336), (707, 28492), (768, 28630), (795, 28717), (803, 28750), (815, 28780), (836, 28837), (855, 28903), (898, 28996), (1013, 29263), (1024, 29287), (1066, 29398), (1114, 29506),

Gene: Sachima_42 Start: 31423, Stop: 29630, Start Num: 228
Candidate Starts for Sachima_42:
(Start: 228 @31423 has 960 MA's), (235, 31414), (263, 31372), (342, 31252), (343, 31249), (370, 31201), (400, 31141), (411, 31111), (415, 31099), (424, 31087), (490, 30934), (570, 30841), (643, 30703), (659, 30673), (733, 30514), (742, 30502), (764, 30475), (798, 30367), (803, 30346), (851, 30211), (855, 30193), (900, 30112), (919, 30070), (949, 29995), (955, 29974), (990, 29920), (1009, 29878), (1042, 29776), (1066, 29719), (1073, 29707), (1079, 29698),

Gene: Sagefire_48 Start: 36086, Stop: 34299, Start Num: 228
Candidate Starts for Sagefire_48:
(Start: 228 @36086 has 960 MA's), (366, 35873), (410, 35780), (418, 35759), (424, 35753), (430, 35744), (479, 35627), (490, 35600), (570, 35507), (576, 35492), (590, 35459), (621, 35408), (622, 35405), (659, 35339), (680, 35309), (690, 35279), (709, 35234), (729, 35195), (803, 35015), (821, 34967), (836, 34928), (855, 34862), (897, 34790), (900, 34781), (935, 34697), (977, 34610), (1032, 34484), (1036, 34472), (1066, 34388), (1069, 34382),

Gene: Saguaro_58 Start: 54786, Stop: 52945, Start Num: 193
Candidate Starts for Saguaro_58:
(Start: 193 @54786 has 1 MA's), (249, 54732), (274, 54696), (345, 54576), (377, 54522), (439, 54387), (440, 54384), (449, 54366), (487, 54279), (552, 54222), (569, 54186), (573, 54174), (583, 54150), (648, 54030), (649, 54027), (658, 54009), (664, 53997), (722, 53880), (764, 53769), (775, 53736), (776, 53733), (780, 53715), (797, 53667), (804, 53640), (826, 53589), (846, 53532), (848, 53526), (851, 53517), (869, 53469), (877, 53454), (900, 53418), (901, 53415), (906, 53400), (939, 53322),

(946, 53310), (953, 53289), (960, 53271), (975, 53253), (992, 53220), (1013, 53160), (1022, 53142), (1024, 53136), (1040, 53097), (1041, 53085), (1042, 53082), (1043, 53079), (1047, 53067), (1054, 53055), (1059, 53043), (1078, 53001), (1082, 52995), (1093, 52971), (1100, 52950),

Gene: Saintus_38 Start: 27584, Stop: 25740, Start Num: 228
Candidate Starts for Saintus_38:
(Start: 228 @27584 has 960 MA's), (263, 27533), (343, 27410), (360, 27380), (384, 27341), (399, 27308), (410, 27278), (418, 27257), (424, 27251), (430, 27242), (448, 27200), (465, 27149), (489, 27101), (490, 27098), (570, 27002), (574, 26990), (580, 26975), (587, 26957), (595, 26945), (626, 26891), (643, 26864), (670, 26816), (696, 26759), (702, 26747), (709, 26732), (733, 26681), (744, 26666), (798, 26519), (803, 26498), (815, 26468), (821, 26450), (823, 26447), (830, 26432), (836, 26411), (840, 26402), (847, 26375), (851, 26363), (855, 26345), (900, 26264), (904, 26252), (929, 26198), (942, 26162), (955, 26126), (977, 26093), (990, 26072), (992, 26066), (1010, 26027), (1013, 26006), (1022, 25988), (1066, 25871), (1073, 25859),

Gene: Salazzle_62 Start: 54403, Stop: 52544, Start Num: 190
Candidate Starts for Salazzle_62:
(Start: 173 @54427 has 3 MA's), (Start: 190 @54403 has 336 MA's), (Start: 222 @54379 has 3 MA's), (Start: 232 @54373 has 2 MA's), (261, 54331), (274, 54310), (336, 54196), (339, 54190), (355, 54160), (390, 54100), (398, 54079), (416, 54025), (429, 54013), (436, 53995), (440, 53983), (487, 53878), (552, 53821), (569, 53785), (573, 53773), (583, 53749), (590, 53737), (611, 53701), (643, 53644), (648, 53635), (649, 53632), (651, 53629), (761, 53374), (796, 53272), (804, 53239), (812, 53218), (848, 53125), (851, 53116), (877, 53053), (900, 53017), (901, 53014), (906, 52999), (939, 52921), (946, 52909), (953, 52888), (976, 52849), (1013, 52759), (1022, 52741), (1024, 52735), (1032, 52720), (1040, 52696), (1042, 52681), (1043, 52678), (1047, 52666), (1059, 52642), (1066, 52621), (1082, 52594), (1093, 52570), (1098, 52555),

Gene: Salete_48 Start: 39366, Stop: 37366, Start Num: 298
Candidate Starts for Salete_48:
(Start: 298 @39366 has 15 MA's), (343, 39297), (409, 39165), (411, 39159), (413, 39153), (435, 39105), (439, 39093), (442, 39087), (451, 39066), (456, 39051), (486, 38982), (527, 38841), (568, 38745), (609, 38658), (625, 38634), (631, 38622), (639, 38610), (679, 38541), (733, 38394), (781, 38289), (787, 38274), (806, 38217), (814, 38196), (828, 38154), (838, 38124), (847, 38091), (861, 38037), (870, 38007), (891, 37938), (895, 37917), (919, 37854), (926, 37836), (931, 37824), (939, 37800), (1013, 37599), (1014, 37596), (1024, 37575), (1039, 37542), (1042, 37524), (1058, 37491), (1066, 37467), (1092, 37419),

Gene: SallyH_63 Start: 54297, Stop: 52438, Start Num: 190
Candidate Starts for SallyH_63:
(Start: 173 @54321 has 3 MA's), (Start: 190 @54297 has 336 MA's), (Start: 222 @54273 has 3 MA's), (Start: 232 @54267 has 2 MA's), (261, 54225), (274, 54204), (336, 54090), (339, 54084), (355, 54054), (390, 53994), (398, 53973), (416, 53919), (429, 53907), (436, 53889), (440, 53877), (487, 53772), (552, 53715), (569, 53679), (573, 53667), (583, 53643), (590, 53631), (601, 53613), (611, 53595), (622, 53577), (643, 53538), (648, 53529), (649, 53526), (651, 53523), (796, 53166), (804, 53133), (812, 53112), (848, 53019), (851, 53010), (877, 52947), (900, 52911), (901, 52908), (906, 52893), (939, 52815), (946, 52803), (953, 52782), (976, 52743), (1013, 52653), (1022, 52635), (1024, 52629), (1032, 52614), (1040, 52590), (1042, 52575), (1043, 52572), (1047, 52560), (1059, 52536), (1082, 52488), (1093, 52464),

Gene: Salvatore2000_10 Start: 8474, Stop: 6273, Start Num: 176
Candidate Starts for Salvatore2000_10:
(106, 8588), (138, 8525), (Start: 176 @8474 has 7 MA's), (209, 8429), (247, 8372), (304, 8288), (333, 8240), (388, 8138), (395, 8123), (451, 7970), (508, 7823), (511, 7802), (645, 7502), (673, 7448), (692,

7400), (711, 7355), (714, 7349), (753, 7265), (778, 7190), (841, 6995), (844, 6983), (857, 6935), (877, 6857), (879, 6848), (910, 6758), (970, 6623), (1019, 6485), (1066, 6359), (1073, 6347), (1077, 6338), (1090, 6308),

Gene: Salz_44 Start: 30686, Stop: 28899, Start Num: 228
Candidate Starts for Salz_44:
(Start: 228 @30686 has 960 MA's), (360, 30482), (399, 30410), (410, 30380), (424, 30353), (572, 30101), (595, 30050), (643, 29969), (668, 29924), (707, 29840), (733, 29783), (766, 29741), (778, 29696), (803, 29615), (823, 29564), (836, 29528), (855, 29462), (895, 29402), (897, 29390), (938, 29288), (949, 29264), (954, 29246), (992, 29183), (1007, 29156), (1009, 29147), (1013, 29123), (1066, 28988), (1073, 28976), (1079, 28967),

Gene: SamW_42 Start: 31774, Stop: 33756, Start Num: 172
Candidate Starts for SamW_42:
(81, 31582), (132, 31717), (Start: 172 @31774 has 7 MA's), (Start: 186 @31789 has 1 MA's), (191, 31795), (274, 31909), (321, 31975), (386, 32092), (442, 32242), (495, 32371), (503, 32389), (508, 32407), (565, 32581), (570, 32596), (657, 32674), (675, 32707), (741, 32887), (770, 32956), (809, 33082), (841, 33184), (844, 33193), (849, 33208), (890, 33361), (927, 33457), (934, 33478), (981, 33577), (1013, 33676),

Gene: Samaymay_60 Start: 54350, Stop: 52491, Start Num: 190
Candidate Starts for Samaymay_60:
(Start: 173 @54374 has 3 MA's), (Start: 190 @54350 has 336 MA's), (Start: 222 @54326 has 3 MA's), (Start: 232 @54320 has 2 MA's), (261, 54278), (274, 54257), (336, 54143), (339, 54137), (355, 54107), (390, 54047), (398, 54026), (416, 53972), (429, 53960), (436, 53942), (440, 53930), (487, 53825), (552, 53768), (569, 53732), (573, 53720), (585, 53693), (611, 53648), (643, 53591), (648, 53582), (649, 53579), (796, 53219), (804, 53186), (812, 53165), (848, 53072), (851, 53063), (877, 53000), (900, 52964), (901, 52961), (906, 52946), (939, 52868), (946, 52856), (953, 52835), (976, 52796), (1013, 52706), (1022, 52688), (1024, 52682), (1032, 52667), (1040, 52643), (1042, 52628), (1043, 52625), (1047, 52613), (1059, 52589), (1082, 52541), (1093, 52517),

Gene: Samora_36 Start: 27510, Stop: 29363, Start Num: 228
Candidate Starts for Samora_36:
(Start: 228 @27510 has 960 MA's), (249, 27543), (278, 27591), (307, 27624), (379, 27741), (410, 27813), (411, 27816), (418, 27834), (430, 27849), (528, 28011), (599, 28146), (606, 28158), (621, 28188), (626, 28200), (635, 28218), (658, 28254), (702, 28344), (707, 28353), (733, 28410), (735, 28413), (738, 28422), (796, 28581), (803, 28611), (815, 28644), (821, 28662), (836, 28704), (845, 28734), (847, 28740), (848, 28743), (851, 28752), (855, 28770), (870, 28815), (897, 28869), (975, 29046), (977, 29052), (981, 29058), (1007, 29106), (1018, 29154), (1024, 29163), (1036, 29190), (1038, 29196), (1042, 29217), (1066, 29274), (1069, 29280), (1079, 29295),

Gene: Samy_65 Start: 41466, Stop: 43436, Start Num: 228
Candidate Starts for Samy_65:
(Start: 228 @41466 has 960 MA's), (239, 41484), (307, 41583), (343, 41643), (346, 41649), (399, 41745), (418, 41799), (439, 41838), (492, 41964), (574, 42060), (626, 42165), (686, 42270), (707, 42318), (715, 42336), (798, 42576), (803, 42597), (806, 42603), (853, 42741), (855, 42750), (905, 42864), (929, 42915), (949, 42966), (973, 43014), (975, 43017), (981, 43029), (1006, 43074), (1014, 43113), (1024, 43134), (1066, 43245), (1079, 43266), (1102, 43320), (1124, 43407),

Gene: SanaSana_45 Start: 31138, Stop: 33012, Start Num: 217
Candidate Starts for SanaSana_45:
(Start: 217 @31138 has 68 MA's), (Start: 273 @31207 has 1 MA's), (Start: 285 @31228 has 1 MA's), (430, 31474), (436, 31489), (448, 31516), (626, 31810), (741, 32044), (783, 32164), (784, 32167),

(803, 32227), (806, 32233), (823, 32278), (830, 32293), (833, 32308), (845, 32344), (855, 32380), (898, 32473), (936, 32566), (973, 32644), (975, 32647), (1009, 32716), (1013, 32740), (1018, 32755), (1038, 32797), (1041, 32815), (1066, 32875), (1079, 32896),

Gene: Sandaddy_44 Start: 34872, Stop: 33046, Start Num: 228
Candidate Starts for Sandaddy_44:
(Start: 228 @34872 has 960 MA's), (366, 34659), (373, 34644), (410, 34566), (418, 34545), (424, 34539), (430, 34530), (479, 34413), (490, 34386), (570, 34293), (576, 34278), (590, 34245), (621, 34194), (622, 34191), (659, 34125), (680, 34095), (690, 34065), (709, 34020), (729, 33981), (803, 33801), (821, 33753), (836, 33714), (855, 33648), (900, 33567), (901, 33564), (935, 33483), (1009, 33333), (1010, 33330), (1018, 33294), (1032, 33270), (1035, 33261), (1039, 33249), (1066, 33174), (1079, 33153),

Gene: SansAfet_43 Start: 29492, Stop: 31366, Start Num: 217
Candidate Starts for SansAfet_43:
(Start: 217 @29492 has 68 MA's), (Start: 273 @29561 has 1 MA's), (Start: 285 @29582 has 1 MA's), (430, 29828), (436, 29843), (448, 29870), (626, 30164), (696, 30299), (741, 30398), (784, 30521), (803, 30581), (806, 30587), (823, 30632), (830, 30647), (833, 30662), (845, 30698), (855, 30734), (898, 30827), (936, 30920), (973, 30998), (1009, 31070), (1018, 31109), (1038, 31151), (1041, 31169), (1058, 31205), (1066, 31229), (1079, 31250),

Gene: Sansa_37 Start: 28809, Stop: 26944, Start Num: 301
Candidate Starts for Sansa_37:
(Start: 301 @28809 has 153 MA's), (320, 28764), (346, 28710), (382, 28650), (402, 28599), (431, 28542), (439, 28521), (442, 28515), (458, 28470), (459, 28467), (460, 28464), (474, 28425), (502, 28365), (582, 28242), (586, 28233), (590, 28221), (597, 28209), (607, 28191), (618, 28170), (623, 28158), (636, 28134), (698, 28008), (706, 27987), (773, 27819), (840, 27654), (850, 27618), (855, 27597), (873, 27555), (908, 27468), (924, 27423), (965, 27324), (989, 27279), (992, 27270), (1010, 27210), (1013, 27186), (1025, 27153), (1068, 27042),

Gene: Sanya_44 Start: 35162, Stop: 33336, Start Num: 228
Candidate Starts for Sanya_44:
(Start: 228 @35162 has 960 MA's), (366, 34949), (399, 34886), (410, 34856), (418, 34835), (424, 34829), (430, 34820), (479, 34703), (490, 34676), (570, 34583), (576, 34568), (621, 34484), (622, 34481), (659, 34415), (680, 34385), (690, 34355), (709, 34310), (729, 34271), (803, 34091), (821, 34043), (836, 34004), (855, 33938), (871, 33899), (895, 33878), (900, 33857), (906, 33839), (935, 33773), (1009, 33623), (1010, 33620), (1018, 33584), (1035, 33551), (1039, 33539), (1045, 33512), (1066, 33464), (1079, 33443),

Gene: SarBear_42 Start: 29278, Stop: 31152, Start Num: 217
Candidate Starts for SarBear_42:
(Start: 215 @29275 has 12 MA's), (Start: 217 @29278 has 68 MA's), (Start: 273 @29347 has 1 MA's), (Start: 285 @29368 has 1 MA's), (360, 29485), (399, 29548), (430, 29614), (448, 29656), (626, 29950), (696, 30085), (741, 30184), (784, 30307), (803, 30367), (806, 30373), (823, 30418), (830, 30433), (833, 30448), (845, 30484), (855, 30520), (898, 30613), (936, 30706), (973, 30784), (1009, 30856), (1018, 30895), (1038, 30937), (1041, 30955), (1066, 31015), (1079, 31036),

Gene: SarFire_43 Start: 34438, Stop: 32612, Start Num: 228
Candidate Starts for SarFire_43:
(Start: 228 @34438 has 960 MA's), (366, 34225), (373, 34210), (410, 34132), (418, 34111), (424, 34105), (430, 34096), (479, 33979), (490, 33952), (570, 33859), (576, 33844), (621, 33760), (622, 33757), (659, 33691), (680, 33661), (690, 33631), (709, 33586), (729, 33547), (803, 33367), (821, 33319), (836, 33280), (855, 33214), (871, 33175), (895, 33154), (900, 33133), (906, 33115), (935,

33049), (1009, 32899), (1010, 32896), (1018, 32860), (1035, 32827), (1039, 32815), (1057, 32767), (1066, 32740), (1079, 32719),

Gene: Saratos_38 Start: 28717, Stop: 26852, Start Num: 301
Candidate Starts for Saratos_38:
(Start: 301 @28717 has 153 MA's), (320, 28672), (346, 28618), (382, 28558), (402, 28507), (439, 28429), (442, 28423), (458, 28378), (459, 28375), (460, 28372), (474, 28333), (502, 28273), (582, 28150), (586, 28141), (590, 28129), (597, 28117), (607, 28099), (618, 28078), (623, 28066), (636, 28042), (706, 27895), (773, 27727), (840, 27562), (850, 27526), (855, 27505), (873, 27463), (908, 27376), (924, 27331), (965, 27232), (989, 27187), (992, 27178), (1010, 27118), (1013, 27094), (1025, 27061), (1068, 26950),

Gene: Sarkar_67 Start: 46750, Stop: 44786, Start Num: 294
Candidate Starts for Sarkar_67:
(Start: 294 @46750 has 13 MA's), (352, 46654), (409, 46546), (413, 46534), (430, 46480), (462, 46396), (512, 46261), (536, 46162), (540, 46150), (554, 46123), (559, 46108), (625, 45970), (672, 45883), (709, 45787), (748, 45679), (750, 45676), (764, 45649), (772, 45622), (780, 45592), (793, 45562), (826, 45457), (859, 45349), (861, 45340), (864, 45334), (933, 45190), (939, 45172), (948, 45154), (987, 45100), (1024, 44983), (1030, 44971), (1034, 44962), (1039, 44950), (1042, 44932), (1053, 44908), (1064, 44884), (1071, 44866),

Gene: Saskia_46 Start: 30680, Stop: 28893, Start Num: 228
Candidate Starts for Saskia_46:
(Start: 228 @30680 has 960 MA's), (360, 30476), (362, 30473), (366, 30467), (384, 30437), (396, 30416), (398, 30407), (399, 30404), (410, 30374), (424, 30347), (435, 30326), (448, 30296), (490, 30194), (570, 30101), (573, 30092), (590, 30053), (595, 30044), (607, 30029), (643, 29963), (696, 29855), (707, 29834), (803, 29609), (823, 29558), (840, 29513), (855, 29456), (871, 29417), (895, 29396), (917, 29339), (924, 29321), (931, 29303), (949, 29258), (982, 29195), (990, 29183), (1009, 29141), (1013, 29117), (1066, 28982), (1073, 28970), (1079, 28961),

Gene: SassyCat97_59 Start: 54035, Stop: 52176, Start Num: 190
Candidate Starts for SassyCat97_59:
(Start: 173 @54059 has 3 MA's), (Start: 190 @54035 has 336 MA's), (Start: 222 @54011 has 3 MA's), (Start: 232 @54005 has 2 MA's), (261, 53963), (274, 53942), (336, 53828), (339, 53822), (355, 53792), (390, 53732), (398, 53711), (416, 53657), (429, 53645), (436, 53627), (440, 53615), (487, 53510), (552, 53453), (569, 53417), (573, 53405), (585, 53378), (601, 53351), (611, 53333), (622, 53315), (643, 53276), (648, 53267), (649, 53264), (761, 53006), (796, 52904), (804, 52871), (812, 52850), (848, 52757), (851, 52748), (877, 52685), (900, 52649), (901, 52646), (906, 52631), (939, 52553), (946, 52541), (953, 52520), (976, 52481), (1013, 52391), (1022, 52373), (1024, 52367), (1032, 52352), (1040, 52328), (1042, 52313), (1043, 52310), (1047, 52298), (1059, 52274), (1082, 52226), (1093, 52202),

Gene: Satis_67 Start: 46746, Stop: 44782, Start Num: 294
Candidate Starts for Satis_67:
(Start: 294 @46746 has 13 MA's), (352, 46650), (384, 46605), (397, 46578), (404, 46557), (409, 46542), (413, 46530), (430, 46476), (462, 46392), (512, 46257), (536, 46158), (540, 46146), (554, 46119), (559, 46104), (625, 45966), (672, 45879), (709, 45783), (748, 45675), (750, 45672), (764, 45645), (772, 45618), (780, 45588), (793, 45558), (826, 45453), (859, 45345), (861, 45336), (864, 45330), (933, 45186), (939, 45168), (948, 45150), (987, 45096), (1024, 44979), (1030, 44967), (1034, 44958), (1039, 44946), (1042, 44928), (1053, 44904), (1064, 44880), (1071, 44862),

Gene: SaturnRing_46 Start: 31555, Stop: 29717, Start Num: 228
Candidate Starts for SaturnRing_46:

(Start: 228 @31555 has 960 MA's), (263, 31504), (307, 31438), (360, 31351), (396, 31291), (399, 31279), (424, 31222), (430, 31213), (480, 31093), (490, 31069), (570, 30973), (592, 30925), (626, 30865), (663, 30802), (696, 30733), (707, 30712), (744, 30640), (767, 30598), (778, 30556), (803, 30475), (821, 30427), (847, 30352), (855, 30322), (869, 30292), (901, 30211), (919, 30172), (929, 30148), (935, 30130), (992, 30001), (1013, 29941), (1066, 29806), (1073, 29794), (1079, 29785),

Gene: Scamp_45 Start: 31572, Stop: 29746, Start Num: 228
Candidate Starts for Scamp_45:
(Start: 228 @31572 has 960 MA's), (Start: 241 @31551 has 3 MA's), (263, 31521), (278, 31491), (384, 31329), (394, 31311), (424, 31239), (430, 31230), (480, 31110), (490, 31086), (570, 30993), (592, 30945), (607, 30924), (626, 30885), (696, 30753), (707, 30732), (729, 30687), (733, 30675), (798, 30522), (803, 30501), (847, 30378), (855, 30348), (871, 30309), (900, 30243), (901, 30240), (906, 30225), (919, 30201), (929, 30177), (1013, 29970), (1066, 29835), (1073, 29823), (1079, 29814),

Gene: Schadenfreude_60 Start: 53915, Stop: 52056, Start Num: 190
Candidate Starts for Schadenfreude_60:
(Start: 173 @53939 has 3 MA's), (Start: 190 @53915 has 336 MA's), (Start: 222 @53891 has 3 MA's), (Start: 232 @53885 has 2 MA's), (261, 53843), (274, 53822), (336, 53708), (339, 53702), (355, 53672), (390, 53612), (398, 53591), (416, 53537), (429, 53525), (436, 53507), (440, 53495), (487, 53390), (552, 53333), (569, 53297), (573, 53285), (583, 53261), (590, 53249), (601, 53231), (611, 53213), (622, 53195), (643, 53156), (648, 53147), (649, 53144), (651, 53141), (796, 52784), (804, 52751), (812, 52730), (848, 52637), (851, 52628), (877, 52565), (900, 52529), (901, 52526), (906, 52511), (939, 52433), (946, 52421), (953, 52400), (976, 52361), (1013, 52271), (1022, 52253), (1024, 52247), (1032, 52232), (1040, 52208), (1042, 52193), (1043, 52190), (1047, 52178), (1059, 52154), (1082, 52106), (1093, 52082),

Gene: Schaffner_42 Start: 30040, Stop: 31905, Start Num: 228
Candidate Starts for Schaffner_42:
(Start: 228 @30040 has 960 MA's), (261, 30088), (317, 30178), (362, 30247), (410, 30337), (462, 30457), (572, 30634), (626, 30742), (633, 30757), (643, 30769), (707, 30895), (768, 31033), (803, 31153), (836, 31240), (855, 31306), (898, 31399), (1066, 31801), (1071, 31810), (1079, 31822),

Gene: Scherzo_45 Start: 31727, Stop: 29934, Start Num: 228
Candidate Starts for Scherzo_45:
(Start: 228 @31727 has 960 MA's), (235, 31718), (263, 31676), (342, 31556), (343, 31553), (370, 31505), (400, 31445), (411, 31415), (415, 31403), (424, 31391), (490, 31238), (570, 31145), (643, 31007), (659, 30977), (733, 30818), (742, 30806), (764, 30779), (798, 30671), (803, 30650), (851, 30515), (855, 30497), (900, 30416), (919, 30374), (949, 30299), (955, 30278), (990, 30224), (1009, 30182), (1042, 30080), (1066, 30023), (1073, 30011), (1079, 30002),

Gene: Schimmels22_37 Start: 27687, Stop: 25789, Start Num: 297
Candidate Starts for Schimmels22_37:
(18, 28425), (19, 28419), (54, 28164), (268, 27738), (Start: 297 @27687 has 21 MA's), (332, 27624), (353, 27573), (378, 27534), (402, 27477), (431, 27420), (435, 27411), (439, 27399), (442, 27393), (460, 27342), (474, 27303), (533, 27240), (552, 27195), (582, 27120), (586, 27111), (590, 27099), (607, 27069), (618, 27048), (623, 27036), (636, 27012), (708, 26862), (800, 26601), (840, 26499), (845, 26478), (855, 26442), (870, 26406), (873, 26400), (908, 26313), (917, 26286), (974, 26154), (992, 26115), (997, 26094), (1010, 26055), (1013, 26031), (1015, 26025), (1025, 25998), (1068, 25887),

Gene: Schnapsidee_38 Start: 29060, Stop: 27195, Start Num: 301
Candidate Starts for Schnapsidee_38:

(Start: 301 @29060 has 153 MA's), (Start: 305 @29051 has 5 MA's), (433, 28787), (439, 28772), (442, 28766), (494, 28634), (545, 28580), (582, 28493), (586, 28484), (590, 28472), (606, 28445), (607, 28442), (614, 28427), (618, 28421), (768, 28091), (847, 27878), (850, 27869), (851, 27866), (855, 27848), (873, 27806), (879, 27791), (908, 27719), (917, 27692), (974, 27560), (989, 27530), (1010, 27461), (1013, 27437), (1015, 27431), (1028, 27398), (1040, 27365), (1044, 27353),

Gene: Schubert_36 Start: 28339, Stop: 26486, Start Num: 297
Candidate Starts for Schubert_36:
(258, 28408), (Start: 297 @28339 has 21 MA's), (378, 28186), (380, 28183), (404, 28126), (439, 28051), (442, 28045), (458, 28000), (474, 27955), (489, 27925), (560, 27838), (586, 27775), (590, 27763), (607, 27733), (618, 27712), (623, 27700), (768, 27382), (845, 27175), (847, 27169), (851, 27157), (855, 27139), (873, 27097), (879, 27082), (908, 27010), (924, 26965), (1010, 26752), (1013, 26728), (1017, 26716), (1020, 26707), (1025, 26695), (1058, 26608), (1068, 26584), (1072, 26578),

Gene: Schueller_61 Start: 54272, Stop: 52413, Start Num: 190
Candidate Starts for Schueller_61:
(Start: 173 @54296 has 3 MA's), (Start: 190 @54272 has 336 MA's), (Start: 222 @54248 has 3 MA's), (Start: 232 @54242 has 2 MA's), (261, 54200), (274, 54179), (336, 54065), (339, 54059), (355, 54029), (390, 53969), (398, 53948), (416, 53894), (429, 53882), (436, 53864), (440, 53852), (487, 53747), (552, 53690), (569, 53654), (573, 53642), (583, 53618), (590, 53606), (601, 53588), (611, 53570), (622, 53552), (643, 53513), (648, 53504), (649, 53501), (651, 53498), (761, 53243), (796, 53141), (804, 53108), (812, 53087), (848, 52994), (851, 52985), (877, 52922), (900, 52886), (901, 52883), (906, 52868), (939, 52790), (946, 52778), (953, 52757), (976, 52718), (1013, 52628), (1022, 52610), (1024, 52604), (1032, 52589), (1040, 52565), (1042, 52550), (1043, 52547), (1047, 52535), (1059, 52511), (1066, 52490), (1082, 52463), (1093, 52439), (1098, 52424),

Gene: Scissor2024_37 Start: 27324, Stop: 25426, Start Num: 298
Candidate Starts for Scissor2024_37:
(250, 27405), (Start: 298 @27324 has 15 MA's), (332, 27261), (353, 27210), (378, 27171), (402, 27114), (431, 27057), (435, 27048), (439, 27036), (442, 27030), (460, 26979), (474, 26940), (552, 26832), (582, 26757), (586, 26748), (590, 26736), (607, 26706), (618, 26685), (623, 26673), (636, 26649), (708, 26499), (800, 26238), (840, 26136), (845, 26115), (855, 26079), (870, 26043), (873, 26037), (908, 25950), (917, 25923), (974, 25791), (992, 25752), (997, 25731), (1010, 25692), (1013, 25668), (1015, 25662), (1025, 25635), (1068, 25524),

Gene: Scoot17C_61 Start: 53977, Stop: 52118, Start Num: 190
Candidate Starts for Scoot17C_61:
(Start: 173 @54001 has 3 MA's), (Start: 190 @53977 has 336 MA's), (Start: 222 @53953 has 3 MA's), (Start: 232 @53947 has 2 MA's), (261, 53905), (274, 53884), (336, 53770), (339, 53764), (355, 53734), (390, 53674), (398, 53653), (416, 53599), (429, 53587), (436, 53569), (440, 53557), (487, 53452), (552, 53395), (569, 53359), (573, 53347), (585, 53320), (601, 53293), (611, 53275), (622, 53257), (643, 53218), (648, 53209), (649, 53206), (761, 52948), (796, 52846), (804, 52813), (812, 52792), (848, 52699), (851, 52690), (877, 52627), (900, 52591), (901, 52588), (906, 52573), (939, 52495), (946, 52483), (953, 52462), (976, 52423), (1013, 52333), (1022, 52315), (1024, 52309), (1032, 52294), (1040, 52270), (1042, 52255), (1043, 52252), (1047, 52240), (1059, 52216), (1082, 52168), (1093, 52144),

Gene: Scorpia_40 Start: 30133, Stop: 28268, Start Num: 228
Candidate Starts for Scorpia_40:
(Start: 195 @30166 has 3 MA's), (Start: 228 @30133 has 960 MA's), (304, 30022), (362, 29926), (399, 29857), (400, 29854), (410, 29827), (424, 29800), (430, 29791), (462, 29707), (465, 29698), (473, 29683), (490, 29647), (556, 29587), (570, 29551), (590, 29503), (606, 29482), (607, 29479), (637, 29419), (685, 29341), (703, 29293), (709, 29281), (732, 29233), (761, 29182), (803, 29047), (821,

28999), (830, 28981), (836, 28960), (840, 28951), (848, 28921), (855, 28894), (856, 28891), (900, 28813), (906, 28795), (929, 28747), (949, 28696), (977, 28642), (982, 28633), (992, 28615), (1022, 28537), (1066, 28420), (1073, 28408), (1115, 28303),

Gene: Scout_45 Start: 30682, Stop: 28844, Start Num: 228
Candidate Starts for Scout_45:
(171, 30754), (Start: 228 @30682 has 960 MA's), (263, 30631), (360, 30478), (396, 30418), (399, 30406), (424, 30349), (430, 30340), (435, 30328), (480, 30220), (490, 30196), (570, 30100), (592, 30052), (626, 29992), (663, 29929), (696, 29860), (707, 29839), (742, 29770), (746, 29764), (767, 29725), (803, 29602), (836, 29515), (847, 29479), (855, 29449), (869, 29419), (901, 29338), (919, 29299), (929, 29275), (935, 29257), (992, 29128), (1013, 29068), (1066, 28933), (1073, 28921), (1079, 28912),

Gene: Scowl_45 Start: 35221, Stop: 33395, Start Num: 228
Candidate Starts for Scowl_45:
(Start: 228 @35221 has 960 MA's), (366, 35008), (373, 34993), (399, 34945), (410, 34915), (418, 34894), (424, 34888), (430, 34879), (479, 34762), (490, 34735), (570, 34642), (576, 34627), (621, 34543), (622, 34540), (659, 34474), (680, 34444), (690, 34414), (709, 34369), (729, 34330), (803, 34150), (821, 34102), (836, 34063), (855, 33997), (871, 33958), (895, 33937), (900, 33916), (906, 33898), (935, 33832), (1009, 33682), (1010, 33679), (1018, 33643), (1032, 33619), (1035, 33610), (1039, 33598), (1045, 33571), (1066, 33523), (1079, 33502),

Gene: Scrick_61 Start: 54049, Stop: 52190, Start Num: 190
Candidate Starts for Scrick_61:
(Start: 173 @54073 has 3 MA's), (Start: 190 @54049 has 336 MA's), (Start: 222 @54025 has 3 MA's), (Start: 232 @54019 has 2 MA's), (261, 53977), (274, 53956), (336, 53842), (339, 53836), (355, 53806), (390, 53746), (398, 53725), (416, 53671), (429, 53659), (436, 53641), (440, 53629), (487, 53524), (552, 53467), (569, 53431), (573, 53419), (583, 53395), (590, 53383), (601, 53365), (611, 53347), (622, 53329), (643, 53290), (648, 53281), (649, 53278), (651, 53275), (796, 52918), (804, 52885), (812, 52864), (848, 52771), (851, 52762), (877, 52699), (900, 52663), (901, 52660), (906, 52645), (939, 52567), (946, 52555), (953, 52534), (976, 52495), (1013, 52405), (1022, 52387), (1024, 52381), (1032, 52366), (1040, 52342), (1042, 52327), (1043, 52324), (1047, 52312), (1059, 52288), (1082, 52240), (1093, 52216),

Gene: Scruffy_10 Start: 8301, Stop: 6172, Start Num: 181
Candidate Starts for Scruffy_10:
(Start: 145 @8352 has 7 MA's), (181, 8301), (205, 8271), (258, 8208), (322, 8124), (324, 8121), (359, 8058), (373, 8031), (388, 8004), (422, 7908), (475, 7767), (477, 7764), (499, 7722), (508, 7701), (516, 7656), (532, 7596), (537, 7569), (551, 7536), (612, 7437), (634, 7410), (642, 7398), (692, 7290), (711, 7245), (730, 7206), (733, 7200), (761, 7134), (778, 7080), (802, 6999), (807, 6990), (841, 6888), (847, 6867), (851, 6855), (857, 6828), (887, 6729), (892, 6705), (913, 6636), (916, 6630), (930, 6603), (934, 6591), (940, 6573), (991, 6477), (1011, 6426), (1018, 6399), (1021, 6390), (1043, 6324), (1064, 6270), (1066, 6261), (1073, 6249),

Gene: Seabiscuit_46 Start: 34373, Stop: 32547, Start Num: 228
Candidate Starts for Seabiscuit_46:
(Start: 228 @34373 has 960 MA's), (366, 34160), (399, 34097), (410, 34067), (418, 34046), (424, 34040), (430, 34031), (479, 33914), (490, 33887), (570, 33794), (576, 33779), (590, 33746), (621, 33695), (622, 33692), (659, 33626), (690, 33566), (709, 33521), (729, 33482), (803, 33302), (821, 33254), (836, 33215), (855, 33149), (871, 33110), (895, 33089), (900, 33068), (906, 33050), (935, 32984), (1009, 32834), (1010, 32831), (1018, 32795), (1035, 32762), (1039, 32750), (1057, 32702), (1066, 32675), (1079, 32654),

Gene: Seanderson_47 Start: 35777, Stop: 33948, Start Num: 228
Candidate Starts for Seanderson_47:
(Start: 228 @35777 has 960 MA's), (366, 35564), (373, 35549), (399, 35501), (410, 35471), (418, 35450), (424, 35444), (430, 35435), (479, 35318), (490, 35291), (570, 35198), (576, 35183), (621, 35099), (622, 35096), (659, 35030), (690, 34970), (709, 34925), (729, 34886), (803, 34706), (821, 34658), (840, 34610), (851, 34571), (855, 34553), (871, 34514), (895, 34493), (900, 34472), (905, 34457), (955, 34334), (1036, 34163), (1041, 34139), (1062, 34091), (1066, 34079), (1079, 34058), (1083, 34052), (1102, 34004), (1109, 33989),

Gene: Sebastisaurus_36 Start: 27845, Stop: 29776, Start Num: 228
Candidate Starts for Sebastisaurus_36:
(207, 27815), (Start: 228 @27845 has 960 MA's), (278, 27926), (343, 28025), (386, 28097), (390, 28103), (410, 28157), (411, 28160), (566, 28415), (572, 28433), (599, 28490), (607, 28505), (621, 28532), (624, 28541), (626, 28544), (627, 28547), (635, 28562), (707, 28697), (729, 28742), (738, 28766), (803, 28955), (806, 28961), (821, 29003), (836, 29042), (845, 29072), (853, 29099), (855, 29108), (869, 29138), (879, 29162), (906, 29225), (975, 29375), (977, 29381), (1002, 29423), (1007, 29435), (1013, 29468), (1018, 29483), (1024, 29492), (1036, 29519), (1038, 29525), (1041, 29543), (1045, 29555), (1066, 29603), (1073, 29615), (1102, 29678),

Gene: Sedgewig_38 Start: 28617, Stop: 26752, Start Num: 301
Candidate Starts for Sedgewig_38:
(Start: 241 @28704 has 3 MA's), (Start: 243 @28701 has 1 MA's), (Start: 301 @28617 has 153 MA's), (Start: 305 @28608 has 5 MA's), (353, 28503), (360, 28494), (378, 28464), (380, 28461), (435, 28341), (439, 28329), (442, 28323), (483, 28218), (494, 28191), (582, 28050), (585, 28044), (586, 28041), (590, 28029), (606, 28002), (607, 27999), (614, 27984), (618, 27978), (621, 27972), (638, 27939), (701, 27810), (726, 27750), (847, 27435), (850, 27426), (851, 27423), (855, 27405), (873, 27363), (877, 27357), (879, 27348), (888, 27333), (908, 27276), (974, 27117), (989, 27087), (992, 27078), (1010, 27018), (1013, 26994), (1028, 26955), (1040, 26922), (1044, 26910), (1068, 26850),

Gene: Selr12_61 Start: 54059, Stop: 52200, Start Num: 190
Candidate Starts for Selr12_61:
(Start: 173 @54083 has 3 MA's), (Start: 190 @54059 has 336 MA's), (Start: 222 @54035 has 3 MA's), (Start: 232 @54029 has 2 MA's), (261, 53987), (274, 53966), (336, 53852), (339, 53846), (355, 53816), (390, 53756), (398, 53735), (416, 53681), (429, 53669), (436, 53651), (440, 53639), (487, 53534), (552, 53477), (569, 53441), (573, 53429), (585, 53402), (601, 53375), (611, 53357), (622, 53339), (643, 53300), (648, 53291), (649, 53288), (796, 52928), (804, 52895), (812, 52874), (848, 52781), (851, 52772), (877, 52709), (900, 52673), (901, 52670), (906, 52655), (939, 52577), (946, 52565), (953, 52544), (976, 52505), (1013, 52415), (1022, 52397), (1024, 52391), (1032, 52376), (1040, 52352), (1042, 52337), (1043, 52334), (1047, 52322), (1059, 52298), (1082, 52250), (1093, 52226),

Gene: SemperFi_45 Start: 31534, Stop: 29747, Start Num: 228
Candidate Starts for SemperFi_45:
(84, 31789), (Start: 228 @31534 has 960 MA's), (360, 31330), (362, 31327), (366, 31321), (375, 31306), (384, 31291), (399, 31258), (400, 31255), (410, 31228), (424, 31201), (435, 31180), (448, 31150), (490, 31048), (570, 30955), (590, 30907), (595, 30898), (607, 30883), (643, 30817), (686, 30736), (707, 30688), (709, 30682), (742, 30619), (778, 30544), (803, 30463), (823, 30412), (835, 30379), (836, 30376), (855, 30310), (871, 30271), (895, 30250), (924, 30175), (931, 30157), (949, 30112), (958, 30085), (982, 30049), (990, 30037), (992, 30031), (1009, 29995), (1013, 29971), (1042, 29893), (1066, 29836), (1073, 29824), (1079, 29815),

Gene: SenorClean_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for SenorClean_45:

(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Serendipitous_56 Start: 53740, Stop: 51905, Start Num: 182
Candidate Starts for Serendipitous_56:
(Start: 162 @53764 has 1 MA's), (Start: 182 @53740 has 33 MA's), (Start: 232 @53704 has 2 MA's), (436, 53356), (449, 53326), (457, 53314), (472, 53278), (487, 53248), (569, 53155), (573, 53143), (577, 53134), (583, 53119), (590, 53107), (601, 53089), (635, 53026), (649, 53002), (701, 52897), (776, 52708), (780, 52690), (797, 52642), (804, 52615), (846, 52507), (848, 52501), (851, 52492), (883, 52408), (901, 52375), (906, 52360), (933, 52300), (939, 52282), (946, 52270), (953, 52249), (955, 52240), (957, 52237), (1024, 52096), (1029, 52087), (1040, 52057), (1042, 52042), (1043, 52039), (1054, 52015), (1059, 52003), (1060, 52000), (1078, 51961), (1093, 51931), (1100, 51910),

Gene: Serendipity_60 Start: 54332, Stop: 52473, Start Num: 190
Candidate Starts for Serendipity_60:
(Start: 173 @54356 has 3 MA's), (Start: 190 @54332 has 336 MA's), (Start: 222 @54308 has 3 MA's), (Start: 232 @54302 has 2 MA's), (261, 54260), (274, 54239), (336, 54125), (339, 54119), (355, 54089), (390, 54029), (398, 54008), (416, 53954), (429, 53942), (436, 53924), (440, 53912), (487, 53807), (552, 53750), (569, 53714), (573, 53702), (585, 53675), (611, 53630), (643, 53573), (648, 53564), (649, 53561), (796, 53201), (804, 53168), (812, 53147), (848, 53054), (851, 53045), (877, 52982), (900, 52946), (901, 52943), (906, 52928), (939, 52850), (946, 52838), (953, 52817), (976, 52778), (1013, 52688), (1022, 52670), (1024, 52664), (1032, 52649), (1040, 52625), (1042, 52610), (1043, 52607), (1047, 52595), (1059, 52571), (1082, 52523), (1093, 52499),

Gene: Serenity_45 Start: 30497, Stop: 28668, Start Num: 228
Candidate Starts for Serenity_45:
(Start: 228 @30497 has 960 MA's), (360, 30293), (362, 30290), (366, 30284), (375, 30269), (384, 30254), (398, 30224), (399, 30221), (410, 30191), (424, 30164), (435, 30143), (448, 30113), (490, 30011), (570, 29918), (590, 29870), (595, 29861), (607, 29846), (643, 29780), (686, 29699), (707, 29651), (729, 29606), (803, 29426), (821, 29378), (823, 29375), (836, 29339), (855, 29273), (871, 29234), (895, 29213), (924, 29138), (931, 29120), (949, 29075), (958, 29048), (982, 29012), (992, 28994), (1009, 28958), (1013, 28934), (1042, 28856), (1066, 28799), (1073, 28787), (1079, 28778), (1100, 28730), (1113, 28700), (1116, 28682), (1118, 28679),

Gene: Serpentine_0060 Start: 54415, Stop: 52556, Start Num: 190
Candidate Starts for Serpentine_0060:
(Start: 173 @54439 has 3 MA's), (Start: 190 @54415 has 336 MA's), (Start: 222 @54391 has 3 MA's), (Start: 232 @54385 has 2 MA's), (261, 54343), (274, 54322), (336, 54208), (339, 54202), (355, 54172), (390, 54112), (398, 54091), (416, 54037), (429, 54025), (436, 54007), (440, 53995), (487, 53890), (552, 53833), (569, 53797), (573, 53785), (585, 53758), (601, 53731), (611, 53713), (622, 53695), (643, 53656), (648, 53647), (649, 53644), (761, 53386), (796, 53284), (804, 53251), (812, 53230), (848, 53137), (851, 53128), (877, 53065), (900, 53029), (901, 53026), (906, 53011), (939, 52933), (946, 52921), (953, 52900), (976, 52861), (1013, 52771), (1022, 52753), (1024, 52747), (1032, 52732), (1040, 52708), (1042, 52693), (1043, 52690), (1047, 52678), (1059, 52654), (1082, 52606), (1093, 52582),

Gene: Severus_42 Start: 30385, Stop: 28553, Start Num: 228
Candidate Starts for Severus_42:
(Start: 228 @30385 has 960 MA's), (263, 30334), (307, 30268), (360, 30181), (366, 30172), (396, 30121), (399, 30109), (424, 30052), (458, 29971), (462, 29959), (465, 29950), (480, 29923), (490,

29899), (570, 29806), (585, 29767), (626, 29698), (643, 29671), (709, 29539), (803, 29311), (830, 29245), (847, 29188), (855, 29158), (871, 29119), (901, 29047), (906, 29032), (919, 29008), (935, 28966), (949, 28933), (1013, 28777), (1024, 28753), (1045, 28690), (1066, 28642), (1073, 28630), (1079, 28621),

Gene: ShadowBud_61 Start: 54308, Stop: 52449, Start Num: 190
Candidate Starts for ShadowBud_61:
(Start: 173 @54332 has 3 MA's), (Start: 190 @54308 has 336 MA's), (Start: 222 @54284 has 3 MA's), (Start: 232 @54278 has 2 MA's), (261, 54236), (274, 54215), (336, 54101), (339, 54095), (355, 54065), (390, 54005), (398, 53984), (416, 53930), (429, 53918), (436, 53900), (440, 53888), (487, 53783), (552, 53726), (569, 53690), (573, 53678), (583, 53654), (590, 53642), (601, 53624), (611, 53606), (622, 53588), (643, 53549), (648, 53540), (649, 53537), (651, 53534), (796, 53177), (804, 53144), (812, 53123), (848, 53030), (851, 53021), (877, 52958), (900, 52922), (901, 52919), (906, 52904), (939, 52826), (946, 52814), (953, 52793), (976, 52754), (1013, 52664), (1022, 52646), (1024, 52640), (1032, 52625), (1040, 52601), (1042, 52586), (1043, 52583), (1047, 52571), (1059, 52547), (1082, 52499), (1093, 52475),

Gene: ShaiHulud_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for ShaiHulud_39:
(Start: 241 @29021 has 3 MA's), (Start: 243 @29018 has 1 MA's), (Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (435, 28658), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (585, 28361), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (701, 28127), (726, 28067), (758, 27992), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (879, 27665), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Shaka_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Shaka_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: ShakeItOph_45 Start: 30557, Stop: 32419, Start Num: 228
Candidate Starts for ShakeItOph_45:
(148, 30458), (160, 30476), (Start: 228 @30557 has 960 MA's), (261, 30605), (362, 30764), (366, 30770), (418, 30875), (442, 30920), (565, 31127), (626, 31256), (686, 31361), (707, 31409), (745, 31493), (803, 31667), (835, 31751), (845, 31784), (848, 31793), (867, 31844), (898, 31913), (945, 32024), (977, 32093), (981, 32099), (1024, 32204), (1066, 32315),

Gene: Sham4_44 Start: 30331, Stop: 28544, Start Num: 228
Candidate Starts for Sham4_44:
(Start: 228 @30331 has 960 MA's), (360, 30127), (399, 30055), (410, 30025), (424, 29998), (572, 29746), (595, 29695), (643, 29614), (668, 29569), (670, 29566), (707, 29485), (733, 29428), (766, 29386), (778, 29341), (803, 29260), (823, 29209), (836, 29173), (855, 29107), (895, 29047), (897, 29035), (938, 28933), (949, 28909), (954, 28891), (992, 28828), (1007, 28801), (1009, 28792), (1013, 28768), (1066, 28633), (1073, 28621), (1079, 28612),

Gene: Shamu_38 Start: 28738, Stop: 26873, Start Num: 301
Candidate Starts for Shamu_38:

(Start: 301 @28738 has 153 MA's), (320, 28693), (346, 28639), (382, 28579), (402, 28528), (439, 28450), (442, 28444), (458, 28399), (459, 28396), (460, 28393), (474, 28354), (502, 28294), (582, 28171), (586, 28162), (590, 28150), (597, 28138), (607, 28120), (618, 28099), (623, 28087), (706, 27916), (773, 27748), (840, 27583), (850, 27547), (855, 27526), (873, 27484), (908, 27397), (924, 27352), (965, 27253), (989, 27208), (992, 27199), (1010, 27139), (1013, 27115), (1025, 27082), (1068, 26971),

Gene: Shapes_48 Start: 31200, Stop: 29365, Start Num: 228
Candidate Starts for Shapes_48:
(Start: 228 @31200 has 960 MA's), (263, 31149), (307, 31083), (360, 30996), (373, 30972), (396, 30936), (399, 30924), (424, 30867), (430, 30858), (462, 30774), (480, 30738), (485, 30726), (490, 30714), (570, 30621), (592, 30573), (626, 30513), (694, 30384), (696, 30381), (707, 30360), (709, 30354), (767, 30246), (803, 30123), (821, 30075), (847, 30000), (855, 29970), (871, 29931), (900, 29862), (901, 29859), (919, 29820), (929, 29796), (931, 29790), (935, 29778), (985, 29670), (1013, 29589), (1024, 29565), (1045, 29502), (1066, 29454), (1073, 29442), (1079, 29433),

Gene: Sharkboy_41 Start: 30011, Stop: 31882, Start Num: 217
Candidate Starts for Sharkboy_41:
(Start: 217 @30011 has 68 MA's), (346, 30194), (369, 30233), (386, 30251), (414, 30323), (430, 30347), (435, 30359), (436, 30362), (473, 30443), (602, 30635), (626, 30683), (681, 30773), (741, 30914), (784, 31037), (803, 31097), (830, 31163), (833, 31178), (845, 31214), (848, 31223), (855, 31250), (898, 31343), (936, 31436), (973, 31514), (1009, 31586), (1018, 31625), (1038, 31667), (1058, 31721), (1066, 31745), (1079, 31766), (1090, 31790),

Gene: Shatter_51 Start: 45981, Stop: 44164, Start Num: 225
Candidate Starts for Shatter_51:
(53, 46302), (61, 46278), (Start: 225 @45981 has 16 MA's), (249, 45945), (261, 45930), (278, 45900), (351, 45774), (411, 45651), (416, 45636), (440, 45594), (487, 45498), (569, 45405), (635, 45276), (649, 45252), (780, 44940), (787, 44922), (804, 44865), (848, 44751), (851, 44742), (877, 44679), (901, 44640), (906, 44625), (939, 44547), (946, 44535), (953, 44514), (955, 44505), (1007, 44418), (1014, 44382), (1018, 44370), (1037, 44331), (1040, 44322), (1042, 44307), (1059, 44262), (1093, 44190),

Gene: Shawty_33 Start: 26720, Stop: 28573, Start Num: 228
Candidate Starts for Shawty_33:
(Start: 228 @26720 has 960 MA's), (278, 26801), (360, 26921), (418, 27044), (430, 27059), (572, 27299), (582, 27326), (599, 27356), (606, 27368), (621, 27398), (626, 27410), (635, 27428), (658, 27464), (702, 27554), (707, 27563), (735, 27623), (738, 27632), (796, 27791), (803, 27821), (815, 27854), (821, 27872), (828, 27887), (836, 27914), (845, 27944), (847, 27950), (848, 27953), (851, 27962), (853, 27971), (855, 27980), (860, 27995), (870, 28025), (897, 28079), (945, 28193), (975, 28256), (977, 28262), (981, 28268), (1002, 28304), (1007, 28316), (1013, 28349), (1018, 28364), (1022, 28367), (1024, 28373), (1036, 28400), (1038, 28406), (1042, 28427), (1066, 28484), (1069, 28490), (1073, 28496), (1079, 28505),

Gene: ShayRa_48 Start: 29944, Stop: 28154, Start Num: 228
Candidate Starts for ShayRa_48:
(Start: 228 @29944 has 960 MA's), (343, 29770), (399, 29665), (400, 29662), (410, 29635), (424, 29608), (448, 29557), (490, 29455), (570, 29362), (587, 29317), (590, 29314), (595, 29305), (686, 29143), (696, 29116), (707, 29095), (709, 29089), (768, 28990), (778, 28951), (796, 28900), (803, 28870), (823, 28819), (835, 28786), (845, 28753), (847, 28747), (855, 28717), (895, 28657), (900, 28636), (919, 28594), (930, 28567), (935, 28552), (977, 28465), (1009, 28402), (1010, 28399), (1066, 28243), (1073, 28231), (1082, 28219),

Gene: Shayna_42 Start: 28849, Stop: 30720, Start Num: 228
Candidate Starts for Shayna_42:
(Start: 228 @28849 has 960 MA's), (261, 28897), (Start: 273 @28918 has 1 MA's), (Start: 285 @28939 has 1 MA's), (430, 29182), (435, 29194), (439, 29206), (442, 29212), (473, 29278), (602, 29473), (626, 29521), (759, 29800), (803, 29938), (854, 30085), (855, 30091), (898, 30184), (924, 30244), (973, 30355), (976, 30361), (1024, 30475), (1037, 30505), (1038, 30508), (1066, 30586), (1071, 30595),

Gene: SheaKeira_43 Start: 30794, Stop: 29001, Start Num: 228
Candidate Starts for SheaKeira_43:
(Start: 228 @30794 has 960 MA's), (235, 30785), (263, 30743), (342, 30623), (343, 30620), (366, 30581), (370, 30572), (400, 30512), (410, 30485), (415, 30470), (424, 30458), (448, 30407), (490, 30305), (570, 30212), (579, 30188), (587, 30167), (659, 30044), (733, 29885), (735, 29882), (764, 29846), (767, 29840), (803, 29717), (830, 29651), (847, 29594), (851, 29582), (855, 29564), (895, 29504), (900, 29483), (906, 29465), (949, 29366), (982, 29303), (1009, 29249), (1038, 29168), (1042, 29147), (1066, 29090), (1073, 29078), (1079, 29069),

Gene: Shee_39 Start: 28927, Stop: 27062, Start Num: 301
Candidate Starts for Shee_39:
(Start: 241 @29014 has 3 MA's), (Start: 243 @29011 has 1 MA's), (Start: 301 @28927 has 153 MA's), (Start: 305 @28918 has 5 MA's), (353, 28813), (360, 28804), (378, 28774), (380, 28771), (435, 28651), (439, 28639), (442, 28633), (483, 28528), (494, 28501), (582, 28360), (585, 28354), (586, 28351), (590, 28339), (606, 28312), (607, 28309), (614, 28294), (618, 28288), (621, 28282), (638, 28249), (726, 28060), (847, 27745), (850, 27736), (851, 27733), (855, 27715), (873, 27673), (877, 27667), (879, 27658), (888, 27643), (908, 27586), (974, 27427), (989, 27397), (992, 27388), (1010, 27328), (1013, 27304), (1028, 27265), (1040, 27232), (1044, 27220), (1068, 27160),

Gene: Sheen_44 Start: 33301, Stop: 31466, Start Num: 228
Candidate Starts for Sheen_44:
(Start: 228 @33301 has 960 MA's), (Start: 241 @33280 has 3 MA's), (304, 33190), (388, 33052), (418, 32974), (424, 32968), (490, 32815), (566, 32731), (570, 32719), (587, 32674), (592, 32671), (626, 32611), (657, 32560), (663, 32548), (707, 32458), (729, 32413), (767, 32344), (778, 32302), (798, 32242), (803, 32221), (821, 32173), (840, 32125), (847, 32098), (848, 32095), (855, 32068), (871, 32029), (901, 31960), (919, 31921), (935, 31879), (936, 31876), (949, 31846), (992, 31750), (1007, 31723), (1018, 31675), (1022, 31672), (1066, 31555), (1073, 31543), (1079, 31534),

Gene: Sheila_58 Start: 53417, Stop: 51558, Start Num: 190
Candidate Starts for Sheila_58:
(Start: 173 @53441 has 3 MA's), (Start: 190 @53417 has 336 MA's), (Start: 222 @53393 has 3 MA's), (Start: 232 @53387 has 2 MA's), (249, 53360), (261, 53345), (274, 53324), (339, 53204), (355, 53174), (390, 53114), (398, 53093), (416, 53039), (429, 53027), (436, 53009), (440, 52997), (487, 52892), (552, 52835), (569, 52799), (573, 52787), (585, 52760), (611, 52715), (643, 52658), (648, 52649), (649, 52646), (651, 52643), (761, 52388), (796, 52286), (804, 52253), (812, 52232), (848, 52139), (851, 52130), (877, 52067), (900, 52031), (901, 52028), (906, 52013), (939, 51935), (946, 51923), (953, 51902), (976, 51863), (1013, 51773), (1022, 51755), (1024, 51749), (1032, 51734), (1040, 51710), (1042, 51695), (1043, 51692), (1047, 51680), (1059, 51656), (1082, 51608), (1093, 51584),

Gene: SheldonCooper_47 Start: 31993, Stop: 30167, Start Num: 228
Candidate Starts for SheldonCooper_47:
(Start: 228 @31993 has 960 MA's), (261, 31945), (360, 31789), (399, 31717), (424, 31660), (430, 31651), (480, 31531), (490, 31507), (570, 31414), (592, 31366), (607, 31345), (626, 31306), (654, 31261), (696, 31174), (701, 31165), (707, 31153), (729, 31108), (733, 31096), (798, 30943), (803, 30922), (847, 30799), (855, 30769), (871, 30730), (900, 30664), (901, 30661), (919, 30622), (929, 30598), (1013, 30391), (1066, 30256), (1073, 30244), (1079, 30235),

Gene: Shenandoah_57 Start: 53309, Stop: 51492, Start Num: 230
Candidate Starts for Shenandoah_57:
(110, 53492), (Start: 230 @53309 has 52 MA's), (249, 53279), (366, 53099), (411, 52994), (435, 52946), (439, 52934), (452, 52904), (458, 52898), (487, 52835), (489, 52829), (552, 52778), (569, 52742), (590, 52694), (649, 52589), (694, 52493), (722, 52442), (775, 52298), (787, 52259), (797, 52229), (804, 52202), (810, 52190), (846, 52094), (848, 52088), (851, 52079), (854, 52067), (883, 51995), (900, 51965), (906, 51947), (912, 51938), (939, 51869), (946, 51857), (953, 51836), (992, 51767), (1002, 51752), (1010, 51728), (1022, 51689), (1024, 51683), (1040, 51644), (1043, 51626), (1047, 51614), (1054, 51602), (1059, 51590), (1093, 51518),

Gene: Shenyu_58 Start: 54813, Stop: 52966, Start Num: 174
Candidate Starts for Shenyu_58:
(21, 55296), (22, 55290), (26, 55239), (29, 55221), (35, 55164), (129, 54876), (174, 54813), (231, 54765), (249, 54738), (283, 54687), (364, 54567), (436, 54417), (457, 54375), (472, 54339), (487, 54309), (569, 54216), (573, 54204), (583, 54180), (590, 54168), (601, 54150), (635, 54087), (649, 54063), (701, 53958), (707, 53949), (748, 53835), (776, 53769), (780, 53751), (797, 53703), (804, 53676), (846, 53568), (848, 53562), (851, 53553), (856, 53532), (883, 53469), (901, 53436), (906, 53421), (933, 53361), (939, 53343), (946, 53331), (953, 53310), (955, 53301), (957, 53298), (965, 53286), (1013, 53181), (1022, 53163), (1024, 53157), (1040, 53118), (1042, 53103), (1043, 53100), (1054, 53076), (1059, 53064), (1060, 53061), (1083, 53013), (1093, 52992), (1100, 52971),

Gene: Shep_45 Start: 30396, Stop: 28558, Start Num: 228
Candidate Starts for Shep_45:
(171, 30468), (Start: 228 @30396 has 960 MA's), (263, 30345), (360, 30192), (396, 30132), (399, 30120), (424, 30063), (430, 30054), (435, 30042), (480, 29934), (490, 29910), (570, 29814), (592, 29766), (626, 29706), (663, 29643), (696, 29574), (707, 29553), (742, 29484), (746, 29478), (767, 29439), (803, 29316), (836, 29229), (847, 29193), (855, 29163), (869, 29133), (901, 29052), (919, 29013), (929, 28989), (935, 28971), (992, 28842), (1013, 28782), (1043, 28701), (1066, 28647), (1073, 28635), (1079, 28626),

Gene: ShiVal_58 Start: 54054, Stop: 52195, Start Num: 190
Candidate Starts for ShiVal_58:
(Start: 173 @54078 has 3 MA's), (Start: 190 @54054 has 336 MA's), (Start: 222 @54030 has 3 MA's), (Start: 232 @54024 has 2 MA's), (261, 53982), (274, 53961), (336, 53847), (339, 53841), (355, 53811), (390, 53751), (398, 53730), (416, 53676), (429, 53664), (436, 53646), (440, 53634), (487, 53529), (552, 53472), (569, 53436), (573, 53424), (585, 53397), (601, 53370), (611, 53352), (622, 53334), (643, 53295), (648, 53286), (649, 53283), (761, 53025), (796, 52923), (804, 52890), (812, 52869), (848, 52776), (851, 52767), (877, 52704), (900, 52668), (901, 52665), (906, 52650), (939, 52572), (946, 52560), (953, 52539), (976, 52500), (1013, 52410), (1022, 52392), (1024, 52386), (1032, 52371), (1040, 52347), (1042, 52332), (1043, 52329), (1047, 52317), (1059, 52293), (1082, 52245), (1093, 52221),

Gene: Shocker_43 Start: 33276, Stop: 31243, Start Num: 269
Candidate Starts for Shocker_43:
(Start: 269 @33276 has 1 MA's), (357, 33123), (379, 33090), (390, 33072), (403, 33033), (445, 32913), (448, 32904), (563, 32709), (579, 32664), (621, 32583), (623, 32577), (626, 32571), (637, 32550), (659, 32511), (678, 32481), (687, 32454), (701, 32412), (704, 32403), (726, 32343), (766, 32268), (849, 32001), (862, 31935), (904, 31803), (915, 31764), (952, 31668), (971, 31632), (976, 31617), (979, 31608), (992, 31566), (1002, 31551), (1016, 31497), (1017, 31494), (1038, 31440), (1086, 31302), (1089, 31293),

Gene: ShortQueendom_40 Start: 30936, Stop: 29110, Start Num: 228

Candidate Starts for ShortQueendom_40:
(Start: 228 @30936 has 960 MA's), (366, 30723), (373, 30708), (399, 30660), (410, 30630), (418, 30609), (424, 30603), (430, 30594), (479, 30477), (490, 30450), (570, 30357), (576, 30342), (590, 30309), (621, 30258), (622, 30255), (659, 30189), (680, 30159), (690, 30129), (709, 30084), (729, 30045), (803, 29865), (815, 29835), (821, 29817), (823, 29814), (836, 29778), (855, 29712), (900, 29631), (901, 29628), (935, 29547), (1009, 29397), (1010, 29394), (1018, 29358), (1032, 29334), (1035, 29325), (1039, 29313), (1066, 29238), (1079, 29217),

Gene: Shuman_36 Start: 28126, Stop: 26342, Start Num: 228
Candidate Starts for Shuman_36:
(Start: 228 @28126 has 960 MA's), (379, 27892), (396, 27862), (398, 27853), (399, 27850), (415, 27805), (424, 27793), (448, 27742), (490, 27640), (498, 27619), (570, 27547), (587, 27502), (590, 27499), (617, 27457), (619, 27451), (626, 27436), (643, 27409), (696, 27304), (701, 27295), (709, 27277), (729, 27238), (767, 27181), (803, 27058), (821, 27010), (855, 26905), (856, 26902), (895, 26845), (900, 26824), (922, 26776), (951, 26701), (990, 26632), (1009, 26590), (1013, 26566), (1042, 26488), (1066, 26431), (1073, 26419), (1079, 26410), (1094, 26380), (1100, 26362),

Gene: ShyRosie_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for ShyRosie_10:
(83, 8535), (93, 8499), (98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (515, 7680), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (781, 7005), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1037, 6270), (1043, 6243), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: Shygu2_44 Start: 31522, Stop: 29693, Start Num: 228
Candidate Starts for Shygu2_44:
(Start: 228 @31522 has 960 MA's), (263, 31471), (278, 31441), (384, 31279), (394, 31261), (399, 31246), (424, 31189), (430, 31180), (435, 31168), (480, 31060), (490, 31036), (570, 30943), (592, 30895), (607, 30874), (626, 30835), (696, 30703), (707, 30682), (729, 30637), (733, 30625), (798, 30472), (803, 30451), (855, 30298), (870, 30262), (871, 30259), (901, 30187), (906, 30172), (919, 30148), (926, 30130), (929, 30124), (931, 30118), (1013, 29917), (1066, 29782), (1073, 29770), (1079, 29761),

Gene: Sibs6_45 Start: 33579, Stop: 31753, Start Num: 228
Candidate Starts for Sibs6_45:
(Start: 228 @33579 has 960 MA's), (366, 33366), (373, 33351), (399, 33303), (410, 33273), (418, 33252), (424, 33246), (430, 33237), (479, 33120), (490, 33093), (570, 33000), (576, 32985), (621, 32901), (622, 32898), (659, 32832), (680, 32802), (690, 32772), (709, 32727), (729, 32688), (803, 32508), (821, 32460), (836, 32421), (855, 32355), (871, 32316), (895, 32295), (900, 32274), (906, 32256), (935, 32190), (1009, 32040), (1010, 32037), (1018, 32001), (1032, 31977), (1035, 31968), (1039, 31956), (1057, 31908), (1066, 31881), (1079, 31860),

Gene: Sigman_61 Start: 54010, Stop: 52151, Start Num: 190
Candidate Starts for Sigman_61:
(Start: 173 @54034 has 3 MA's), (Start: 190 @54010 has 336 MA's), (Start: 222 @53986 has 3 MA's), (Start: 232 @53980 has 2 MA's), (261, 53938), (274, 53917), (336, 53803), (339, 53797), (355, 53767), (390, 53707), (398, 53686), (416, 53632), (429, 53620), (436, 53602), (440, 53590), (487, 53485), (552, 53428), (569, 53392), (573, 53380), (583, 53356), (590, 53344), (601, 53326), (611, 53308), (622, 53290), (643, 53251), (648, 53242), (649, 53239), (651, 53236), (796, 52879), (804, 52846), (812, 52825), (848, 52732), (851, 52723), (877, 52660), (900, 52624), (901, 52621), (906, 52606), (939, 52528), (946, 52516), (953, 52495), (976, 52456), (1013, 52366), (1022, 52348), (1024, 52342),

(1032, 52327), (1040, 52303), (1042, 52288), (1043, 52285), (1047, 52273), (1059, 52249), (1082, 52201), (1093, 52177),

Gene: SilverBell_61 Start: 54295, Stop: 52436, Start Num: 190
Candidate Starts for SilverBell_61:
(Start: 173 @54319 has 3 MA's), (Start: 190 @54295 has 336 MA's), (Start: 222 @54271 has 3 MA's), (Start: 232 @54265 has 2 MA's), (261, 54223), (274, 54202), (336, 54088), (339, 54082), (355, 54052), (390, 53992), (398, 53971), (416, 53917), (429, 53905), (436, 53887), (440, 53875), (487, 53770), (552, 53713), (569, 53677), (573, 53665), (583, 53641), (590, 53629), (601, 53611), (611, 53593), (622, 53575), (643, 53536), (648, 53527), (649, 53524), (651, 53521), (796, 53164), (804, 53131), (812, 53110), (848, 53017), (851, 53008), (877, 52945), (900, 52909), (901, 52906), (906, 52891), (939, 52813), (946, 52801), (953, 52780), (976, 52741), (1013, 52651), (1022, 52633), (1024, 52627), (1032, 52612), (1040, 52588), (1042, 52573), (1043, 52570), (1047, 52558), (1059, 52534), (1082, 52486), (1093, 52462),

Gene: Simielle_60 Start: 54014, Stop: 52155, Start Num: 190
Candidate Starts for Simielle_60:
(Start: 173 @54038 has 3 MA's), (Start: 190 @54014 has 336 MA's), (Start: 222 @53990 has 3 MA's), (Start: 232 @53984 has 2 MA's), (261, 53942), (274, 53921), (336, 53807), (339, 53801), (355, 53771), (390, 53711), (398, 53690), (416, 53636), (429, 53624), (436, 53606), (440, 53594), (487, 53489), (552, 53432), (569, 53396), (573, 53384), (585, 53357), (611, 53312), (643, 53255), (648, 53246), (649, 53243), (761, 52985), (796, 52883), (804, 52850), (812, 52829), (848, 52736), (851, 52727), (877, 52664), (900, 52628), (901, 52625), (906, 52610), (939, 52532), (946, 52520), (953, 52499), (976, 52460), (1013, 52370), (1022, 52352), (1024, 52346), (1032, 52331), (1040, 52307), (1042, 52292), (1043, 52289), (1047, 52277), (1059, 52253), (1082, 52205), (1093, 52181),

Gene: Simpson_43 Start: 29708, Stop: 31573, Start Num: 228
Candidate Starts for Simpson_43:
(Start: 228 @29708 has 960 MA's), (261, 29756), (410, 30005), (435, 30053), (452, 30095), (572, 30302), (576, 30311), (622, 30401), (626, 30410), (633, 30425), (660, 30470), (686, 30515), (707, 30563), (733, 30620), (768, 30701), (795, 30788), (803, 30821), (815, 30851), (836, 30908), (855, 30974), (898, 31067), (929, 31139), (977, 31247), (1009, 31310), (1013, 31334), (1058, 31445), (1066, 31469), (1071, 31478),

Gene: Sinatra_37 Start: 28491, Stop: 26641, Start Num: 297
Candidate Starts for Sinatra_37:
(Start: 297 @28491 has 21 MA's), (360, 28368), (380, 28335), (431, 28224), (439, 28203), (442, 28197), (460, 28146), (560, 27990), (582, 27936), (585, 27930), (586, 27927), (590, 27915), (607, 27885), (621, 27858), (636, 27828), (706, 27681), (768, 27534), (847, 27324), (851, 27312), (855, 27294), (873, 27252), (879, 27237), (897, 27201), (908, 27165), (989, 26976), (992, 26967), (1010, 26907), (1013, 26883), (1020, 26862), (1025, 26850), (1068, 26739),

Gene: SirBeanington_42 Start: 29792, Stop: 31666, Start Num: 217
Candidate Starts for SirBeanington_42:
(Start: 215 @29789 has 12 MA's), (Start: 217 @29792 has 68 MA's), (Start: 273 @29861 has 1 MA's), (Start: 285 @29882 has 1 MA's), (430, 30128), (448, 30170), (582, 30383), (626, 30464), (741, 30698), (784, 30821), (803, 30881), (806, 30887), (823, 30932), (830, 30947), (833, 30962), (845, 30998), (855, 31034), (898, 31127), (936, 31220), (973, 31298), (1009, 31370), (1018, 31409), (1038, 31451), (1041, 31469), (1066, 31529), (1079, 31550),

Gene: SirBeauregard_61 Start: 54580, Stop: 52721, Start Num: 190
Candidate Starts for SirBeauregard_61:

(Start: 173 @54604 has 3 MA's), (Start: 190 @54580 has 336 MA's), (Start: 222 @54556 has 3 MA's), (Start: 232 @54550 has 2 MA's), (261, 54508), (274, 54487), (336, 54373), (339, 54367), (355, 54337), (390, 54277), (398, 54256), (416, 54202), (429, 54190), (436, 54172), (440, 54160), (487, 54055), (552, 53998), (569, 53962), (573, 53950), (583, 53926), (590, 53914), (601, 53896), (611, 53878), (622, 53860), (643, 53821), (648, 53812), (649, 53809), (651, 53806), (796, 53449), (804, 53416), (812, 53395), (848, 53302), (851, 53293), (877, 53230), (900, 53194), (901, 53191), (906, 53176), (939, 53098), (946, 53086), (953, 53065), (976, 53026), (1013, 52936), (1022, 52918), (1024, 52912), (1032, 52897), (1040, 52873), (1042, 52858), (1043, 52855), (1047, 52843), (1059, 52819), (1082, 52771), (1093, 52747),

Gene: SirJeffery_57 Start: 54475, Stop: 52676, Start Num: 232
Candidate Starts for SirJeffery_57:
(109, 54625), (144, 54559), (Start: 182 @54505 has 33 MA's), (Start: 217 @54484 has 68 MA's), (Start: 232 @54475 has 2 MA's), (249, 54448), (281, 54400), (352, 54289), (364, 54277), (436, 54127), (449, 54097), (457, 54085), (472, 54049), (487, 54019), (569, 53926), (573, 53914), (574, 53911), (583, 53890), (590, 53878), (601, 53860), (635, 53797), (649, 53773), (701, 53668), (748, 53545), (761, 53521), (771, 53494), (775, 53482), (776, 53479), (780, 53461), (797, 53413), (804, 53386), (826, 53335), (848, 53272), (851, 53263), (883, 53179), (901, 53146), (906, 53131), (933, 53071), (939, 53053), (946, 53041), (953, 53020), (955, 53011), (957, 53008), (1013, 52891), (1022, 52873), (1024, 52867), (1040, 52828), (1041, 52816), (1042, 52813), (1047, 52798), (1054, 52786), (1059, 52774), (1060, 52771), (1078, 52732), (1083, 52723), (1093, 52702), (1100, 52681),

Gene: SirVictor_37 Start: 28567, Stop: 26717, Start Num: 297
Candidate Starts for SirVictor_37:
(209, 28708), (268, 28618), (Start: 297 @28567 has 21 MA's), (346, 28468), (360, 28444), (380, 28411), (431, 28300), (439, 28279), (442, 28273), (458, 28228), (460, 28222), (560, 28066), (586, 28003), (590, 27991), (607, 27961), (636, 27904), (768, 27610), (847, 27400), (850, 27391), (851, 27388), (855, 27370), (873, 27328), (908, 27241), (1010, 26983), (1013, 26959), (1014, 26956), (1025, 26926), (1068, 26815),

Gene: Sisko_49 Start: 45974, Stop: 44160, Start Num: 221
Candidate Starts for Sisko_49:
(150, 46064), (154, 46058), (Start: 221 @45974 has 14 MA's), (Start: 232 @45965 has 2 MA's), (261, 45923), (336, 45797), (362, 45755), (384, 45713), (411, 45644), (435, 45605), (439, 45593), (440, 45590), (476, 45515), (487, 45494), (569, 45401), (633, 45275), (643, 45260), (649, 45248), (692, 45158), (780, 44936), (804, 44861), (848, 44747), (851, 44738), (877, 44675), (901, 44636), (906, 44621), (939, 44543), (946, 44531), (948, 44525), (953, 44510), (955, 44501), (960, 44492), (1007, 44414), (1013, 44381), (1014, 44378), (1038, 44324), (1040, 44318), (1049, 44282), (1059, 44258), (1093, 44186),

Gene: Sixama_172 Start: 99122, Stop: 97338, Start Num: 229
Candidate Starts for Sixama_172:
(180, 99188), (201, 99161), (Start: 229 @99122 has 1 MA's), (299, 99014), (342, 98954), (360, 98921), (398, 98858), (414, 98813), (439, 98768), (440, 98765), (482, 98687), (488, 98672), (489, 98669), (493, 98657), (570, 98588), (613, 98504), (626, 98477), (633, 98462), (717, 98303), (729, 98279), (793, 98138), (798, 98117), (803, 98096), (865, 97916), (888, 97859), (929, 97757), (932, 97748), (956, 97685), (963, 97673), (969, 97664), (1014, 97544), (1018, 97532), (1024, 97523), (1027, 97517), (1036, 97496), (1038, 97490), (1040, 97484), (1043, 97466), (1045, 97460), (1066, 97412), (1097, 97361),

Gene: Skadoosh_46 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Skadoosh_46:

(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Skelbel_40 Start: 30355, Stop: 32220, Start Num: 228
Candidate Starts for Skelbel_40:
(Start: 228 @30355 has 960 MA's), (261, 30403), (383, 30586), (386, 30592), (410, 30652), (418, 30673), (452, 30742), (576, 30958), (622, 31048), (626, 31057), (633, 31072), (660, 31117), (707, 31210), (768, 31348), (803, 31468), (815, 31498), (836, 31555), (853, 31612), (855, 31621), (867, 31645), (898, 31714), (929, 31786), (932, 31795), (977, 31894), (1009, 31957), (1066, 32116), (1071, 32125),

Gene: SkiPole_47 Start: 35312, Stop: 33483, Start Num: 228
Candidate Starts for SkiPole_47:
(Start: 228 @35312 has 960 MA's), (366, 35099), (373, 35084), (399, 35036), (410, 35006), (418, 34985), (424, 34979), (430, 34970), (479, 34853), (490, 34826), (570, 34733), (576, 34718), (621, 34634), (622, 34631), (659, 34565), (690, 34505), (709, 34460), (729, 34421), (803, 34241), (821, 34193), (840, 34145), (851, 34106), (855, 34088), (871, 34049), (895, 34028), (900, 34007), (905, 33992), (955, 33869), (1036, 33698), (1041, 33674), (1062, 33626), (1066, 33614), (1079, 33593), (1083, 33587), (1102, 33539), (1109, 33524),

Gene: Skipitt_44 Start: 31564, Stop: 29738, Start Num: 228
Candidate Starts for Skipitt_44:
(Start: 228 @31564 has 960 MA's), (Start: 241 @31543 has 3 MA's), (263, 31513), (278, 31483), (384, 31321), (394, 31303), (424, 31231), (430, 31222), (480, 31102), (490, 31078), (570, 30985), (592, 30937), (607, 30916), (626, 30877), (696, 30745), (707, 30724), (729, 30679), (733, 30667), (798, 30514), (803, 30493), (847, 30370), (855, 30340), (871, 30301), (900, 30235), (901, 30232), (906, 30217), (919, 30193), (929, 30169), (1013, 29962), (1066, 29827), (1073, 29815), (1079, 29806),

Gene: Skippy_61 Start: 54268, Stop: 52409, Start Num: 190
Candidate Starts for Skippy_61:
(Start: 173 @54292 has 3 MA's), (Start: 190 @54268 has 336 MA's), (Start: 222 @54244 has 3 MA's), (Start: 232 @54238 has 2 MA's), (261, 54196), (274, 54175), (336, 54061), (339, 54055), (355, 54025), (390, 53965), (398, 53944), (416, 53890), (429, 53878), (436, 53860), (440, 53848), (487, 53743), (552, 53686), (569, 53650), (573, 53638), (583, 53614), (590, 53602), (601, 53584), (611, 53566), (622, 53548), (643, 53509), (648, 53500), (649, 53497), (651, 53494), (761, 53239), (796, 53137), (804, 53104), (812, 53083), (848, 52990), (851, 52981), (877, 52918), (900, 52882), (901, 52879), (906, 52864), (939, 52786), (946, 52774), (953, 52753), (976, 52714), (1013, 52624), (1022, 52606), (1024, 52600), (1032, 52585), (1040, 52561), (1042, 52546), (1043, 52543), (1047, 52531), (1059, 52507), (1066, 52486), (1082, 52459), (1093, 52435),

Gene: Sknot_44 Start: 31360, Stop: 29573, Start Num: 228
Candidate Starts for Sknot_44:
(Start: 228 @31360 has 960 MA's), (360, 31156), (362, 31153), (366, 31147), (384, 31117), (399, 31084), (400, 31081), (410, 31054), (424, 31027), (448, 30976), (490, 30874), (570, 30781), (590, 30733), (595, 30724), (607, 30709), (643, 30643), (686, 30562), (707, 30514), (778, 30370), (803, 30289), (823, 30238), (835, 30205), (855, 30136), (871, 30097), (895, 30076), (900, 30055), (904, 30043), (990, 29863), (992, 29857), (1009, 29821), (1013, 29797), (1042, 29719), (1066, 29662), (1073, 29650),

Gene: Skylord_40 Start: 27452, Stop: 29320, Start Num: 215

Candidate Starts for Skylord_40:
(Start: 215 @27452 has 12 MA's), (Start: 217 @27455 has 68 MA's), (220, 27458), (Start: 273 @27527 has 1 MA's), (436, 27809), (448, 27836), (473, 27890), (585, 28055), (626, 28130), (637, 28151), (784, 28505), (803, 28565), (823, 28616), (845, 28682), (855, 28718), (898, 28811), (973, 28982), (1009, 29054), (1038, 29135), (1065, 29210), (1066, 29213), (1079, 29234), (1108, 29303),

Gene: Slagathor_47 Start: 35125, Stop: 33338, Start Num: 228
Candidate Starts for Slagathor_47:
(Start: 228 @35125 has 960 MA's), (366, 34912), (373, 34897), (410, 34819), (418, 34798), (424, 34792), (430, 34783), (479, 34666), (490, 34639), (570, 34546), (576, 34531), (590, 34498), (621, 34447), (622, 34444), (659, 34378), (680, 34348), (690, 34318), (709, 34273), (729, 34234), (803, 34054), (821, 34006), (836, 33967), (855, 33901), (897, 33829), (900, 33820), (935, 33736), (977, 33649), (1032, 33523), (1036, 33511), (1066, 33427), (1069, 33421),

Gene: Slatt_61 Start: 54333, Stop: 52474, Start Num: 190
Candidate Starts for Slatt_61:
(Start: 173 @54357 has 3 MA's), (Start: 190 @54333 has 336 MA's), (Start: 222 @54309 has 3 MA's), (Start: 232 @54303 has 2 MA's), (261, 54261), (274, 54240), (336, 54126), (339, 54120), (355, 54090), (390, 54030), (398, 54009), (416, 53955), (429, 53943), (436, 53925), (440, 53913), (487, 53808), (552, 53751), (569, 53715), (573, 53703), (585, 53676), (601, 53649), (611, 53631), (622, 53613), (643, 53574), (648, 53565), (649, 53562), (796, 53202), (804, 53169), (812, 53148), (848, 53055), (851, 53046), (877, 52983), (900, 52947), (901, 52944), (906, 52929), (939, 52851), (946, 52839), (953, 52818), (976, 52779), (1013, 52689), (1022, 52671), (1024, 52665), (1032, 52650), (1040, 52626), (1042, 52611), (1043, 52608), (1047, 52596), (1059, 52572), (1082, 52524), (1093, 52500),

Gene: Slay_43 Start: 30006, Stop: 31880, Start Num: 217
Candidate Starts for Slay_43:
(Start: 215 @30003 has 12 MA's), (Start: 217 @30006 has 68 MA's), (Start: 273 @30075 has 1 MA's), (Start: 285 @30096 has 1 MA's), (360, 30213), (399, 30276), (430, 30342), (448, 30384), (626, 30678), (696, 30813), (741, 30912), (784, 31035), (803, 31095), (806, 31101), (823, 31146), (830, 31161), (833, 31176), (845, 31212), (855, 31248), (898, 31341), (936, 31434), (973, 31512), (1009, 31584), (1018, 31623), (1038, 31665), (1041, 31683), (1066, 31743), (1079, 31764),

Gene: SlippinJimmy_60 Start: 54842, Stop: 53025, Start Num: 230
Candidate Starts for SlippinJimmy_60:
(110, 55025), (Start: 230 @54842 has 52 MA's), (249, 54812), (366, 54632), (435, 54479), (439, 54467), (452, 54437), (458, 54431), (487, 54368), (489, 54362), (552, 54311), (569, 54275), (590, 54227), (649, 54122), (694, 54026), (722, 53975), (775, 53831), (787, 53792), (797, 53762), (804, 53735), (810, 53723), (846, 53627), (848, 53621), (851, 53612), (854, 53600), (883, 53528), (900, 53498), (906, 53480), (912, 53471), (939, 53402), (946, 53390), (953, 53369), (992, 53300), (1002, 53285), (1010, 53261), (1013, 53240), (1022, 53222), (1024, 53216), (1038, 53183), (1040, 53177), (1043, 53159), (1047, 53147), (1054, 53135), (1059, 53123), (1078, 53081), (1093, 53051),

Gene: Smairt_47 Start: 35424, Stop: 33637, Start Num: 228
Candidate Starts for Smairt_47:
(Start: 228 @35424 has 960 MA's), (366, 35211), (373, 35196), (410, 35118), (418, 35097), (424, 35091), (430, 35082), (479, 34965), (490, 34938), (570, 34845), (576, 34830), (583, 34809), (590, 34797), (621, 34746), (622, 34743), (654, 34689), (659, 34677), (680, 34647), (690, 34617), (709, 34572), (729, 34533), (803, 34353), (821, 34305), (836, 34266), (855, 34200), (897, 34128), (900, 34119), (935, 34035), (977, 33948), (1032, 33822), (1036, 33810), (1066, 33726), (1069, 33720),

Gene: Smeadley_43 Start: 30722, Stop: 28878, Start Num: 228
Candidate Starts for Smeadley_43:

(119, 30887), (Start: 228 @30722 has 960 MA's), (263, 30671), (343, 30548), (360, 30518), (384, 30479), (399, 30446), (410, 30416), (418, 30395), (424, 30389), (430, 30380), (448, 30338), (465, 30287), (489, 30239), (490, 30236), (570, 30140), (580, 30113), (587, 30095), (590, 30092), (595, 30083), (626, 30029), (643, 30002), (670, 29954), (696, 29897), (709, 29870), (733, 29819), (744, 29804), (798, 29657), (803, 29636), (815, 29606), (821, 29588), (823, 29585), (830, 29570), (836, 29549), (840, 29540), (847, 29513), (851, 29501), (855, 29483), (900, 29402), (904, 29390), (929, 29336), (942, 29300), (955, 29264), (977, 29231), (990, 29210), (992, 29204), (1010, 29165), (1013, 29144), (1022, 29126), (1066, 29009), (1069, 29003), (1073, 28997),

Gene: Smeagan_47 Start: 31877, Stop: 30090, Start Num: 228
Candidate Starts for Smeagan_47:
(Start: 228 @31877 has 960 MA's), (362, 31670), (366, 31664), (375, 31649), (384, 31634), (400, 31598), (410, 31571), (424, 31544), (435, 31523), (490, 31391), (570, 31298), (587, 31253), (590, 31250), (595, 31241), (607, 31226), (643, 31160), (686, 31079), (707, 31031), (709, 31025), (803, 30806), (823, 30755), (835, 30722), (836, 30719), (855, 30653), (871, 30614), (895, 30593), (924, 30518), (929, 30506), (949, 30455), (982, 30392), (992, 30374), (1009, 30338), (1013, 30314), (1042, 30236), (1066, 30179), (1073, 30167), (1079, 30158),

Gene: Smeagol_46 Start: 35946, Stop: 34120, Start Num: 228
Candidate Starts for Smeagol_46:
(Start: 228 @35946 has 960 MA's), (366, 35733), (373, 35718), (410, 35640), (418, 35619), (424, 35613), (430, 35604), (479, 35487), (490, 35460), (570, 35367), (576, 35352), (590, 35319), (621, 35268), (622, 35265), (659, 35199), (680, 35169), (690, 35139), (709, 35094), (729, 35055), (803, 34875), (821, 34827), (823, 34824), (836, 34788), (855, 34722), (900, 34641), (901, 34638), (935, 34557), (1009, 34407), (1010, 34404), (1018, 34368), (1032, 34344), (1039, 34323), (1066, 34248), (1079, 34227),

Gene: SmellyB_45 Start: 29627, Stop: 27786, Start Num: 228
Candidate Starts for SmellyB_45:
(Start: 228 @29627 has 960 MA's), (360, 29423), (399, 29348), (400, 29345), (410, 29318), (415, 29303), (424, 29291), (448, 29240), (485, 29150), (490, 29138), (570, 29045), (585, 29006), (595, 28988), (607, 28973), (643, 28907), (660, 28874), (663, 28871), (710, 28769), (742, 28709), (778, 28625), (803, 28544), (835, 28460), (836, 28457), (840, 28448), (847, 28421), (855, 28391), (895, 28331), (906, 28292), (1009, 28076), (1010, 28073), (1013, 28052), (1066, 27917), (1073, 27905), (1079, 27896), (1082, 27893), (1115, 27800),

Gene: SnapTap_44 Start: 31345, Stop: 29558, Start Num: 228
Candidate Starts for SnapTap_44:
(84, 31600), (Start: 228 @31345 has 960 MA's), (360, 31141), (362, 31138), (366, 31132), (375, 31117), (384, 31102), (399, 31069), (400, 31066), (410, 31039), (424, 31012), (435, 30991), (448, 30961), (490, 30859), (570, 30766), (590, 30718), (595, 30709), (607, 30694), (643, 30628), (686, 30547), (707, 30499), (709, 30493), (742, 30430), (778, 30355), (803, 30274), (823, 30223), (835, 30190), (836, 30187), (855, 30121), (871, 30082), (895, 30061), (924, 29986), (931, 29968), (949, 29923), (958, 29896), (982, 29860), (990, 29848), (992, 29842), (1009, 29806), (1013, 29782), (1042, 29704), (1066, 29647), (1073, 29635), (1079, 29626),

Gene: Snape_44 Start: 30329, Stop: 28542, Start Num: 228
Candidate Starts for Snape_44:
(Start: 228 @30329 has 960 MA's), (360, 30125), (399, 30053), (410, 30023), (424, 29996), (572, 29744), (595, 29693), (643, 29612), (668, 29567), (707, 29483), (733, 29426), (766, 29384), (778, 29339), (803, 29258), (823, 29207), (836, 29171), (855, 29105), (895, 29045), (897, 29033), (938, 28931), (949, 28907), (954, 28889), (992, 28826), (1007, 28799), (1009, 28790), (1013, 28766), (1066, 28631), (1073, 28619), (1079, 28610),

Gene: Snazzy_42 Start: 34003, Stop: 32177, Start Num: 228
Candidate Starts for Snazzy_42:
(Start: 228 @34003 has 960 MA's), (366, 33790), (373, 33775), (410, 33697), (418, 33676), (424, 33670), (430, 33661), (479, 33544), (490, 33517), (570, 33424), (576, 33409), (590, 33376), (621, 33325), (622, 33322), (659, 33256), (680, 33226), (690, 33196), (709, 33151), (729, 33112), (803, 32932), (815, 32902), (821, 32884), (823, 32881), (836, 32845), (855, 32779), (900, 32698), (901, 32695), (935, 32614), (1009, 32464), (1010, 32461), (1018, 32425), (1032, 32401), (1035, 32392), (1039, 32380), (1066, 32305), (1079, 32284),

Gene: Snek_40 Start: 28185, Stop: 30029, Start Num: 228
Candidate Starts for Snek_40:
(Start: 228 @28185 has 960 MA's), (261, 28233), (303, 28293), (360, 28389), (383, 28416), (400, 28455), (418, 28503), (452, 28572), (572, 28758), (626, 28866), (633, 28881), (702, 29010), (707, 29019), (768, 29157), (803, 29277), (836, 29364), (853, 29421), (855, 29430), (898, 29523), (1009, 29766), (1066, 29925), (1071, 29934), (1107, 30012),

Gene: Snickers_48 Start: 31826, Stop: 30012, Start Num: 228
Candidate Starts for Snickers_48:
(Start: 228 @31826 has 960 MA's), (257, 31787), (263, 31775), (360, 31622), (369, 31607), (399, 31550), (424, 31493), (430, 31484), (448, 31442), (465, 31391), (490, 31340), (570, 31247), (590, 31199), (595, 31190), (607, 31175), (626, 31136), (643, 31109), (659, 31079), (703, 30986), (732, 30926), (742, 30911), (803, 30755), (836, 30668), (855, 30602), (871, 30563), (901, 30491), (919, 30452), (929, 30428), (935, 30410), (949, 30377), (958, 30350), (992, 30296), (1013, 30236), (1042, 30158), (1066, 30101), (1073, 30089), (1079, 30080),

Gene: SoYo_48 Start: 31764, Stop: 29950, Start Num: 228
Candidate Starts for SoYo_48:
(Start: 228 @31764 has 960 MA's), (257, 31725), (263, 31713), (360, 31560), (369, 31545), (399, 31488), (424, 31431), (430, 31422), (448, 31380), (465, 31329), (490, 31278), (570, 31185), (590, 31137), (595, 31128), (607, 31113), (626, 31074), (643, 31047), (659, 31017), (703, 30924), (732, 30864), (742, 30849), (803, 30693), (836, 30606), (855, 30540), (871, 30501), (901, 30429), (919, 30390), (929, 30366), (935, 30348), (949, 30315), (958, 30288), (992, 30234), (1013, 30174), (1042, 30096), (1066, 30039), (1073, 30027), (1079, 30018),

Gene: Softsoap_42 Start: 29403, Stop: 31277, Start Num: 217
Candidate Starts for Softsoap_42:
(Start: 217 @29403 has 68 MA's), (Start: 273 @29472 has 1 MA's), (Start: 285 @29493 has 1 MA's), (430, 29739), (436, 29754), (448, 29781), (626, 30075), (696, 30210), (741, 30309), (784, 30432), (803, 30492), (823, 30543), (830, 30558), (833, 30573), (845, 30609), (855, 30645), (898, 30738), (936, 30831), (973, 30909), (1009, 30981), (1018, 31020), (1038, 31062), (1041, 31080), (1058, 31116), (1066, 31140), (1079, 31161),

Gene: SoilDragon_48 Start: 31301, Stop: 29487, Start Num: 228
Candidate Starts for SoilDragon_48:
(Start: 228 @31301 has 960 MA's), (257, 31262), (263, 31250), (360, 31097), (369, 31082), (399, 31025), (424, 30968), (430, 30959), (448, 30917), (465, 30866), (490, 30815), (570, 30722), (590, 30674), (595, 30665), (607, 30650), (626, 30611), (643, 30584), (659, 30554), (703, 30461), (709, 30449), (732, 30401), (742, 30386), (803, 30230), (836, 30143), (855, 30077), (871, 30038), (901, 29966), (919, 29927), (929, 29903), (935, 29885), (949, 29852), (958, 29825), (992, 29771), (1013, 29711), (1042, 29633), (1066, 29576), (1073, 29564), (1079, 29555),

Gene: SoilGremlin_39 Start: 28933, Stop: 27068, Start Num: 301

Candidate Starts for SoilGremlin_39:
(Start: 241 @29020 has 3 MA's), (Start: 301 @28933 has 153 MA's), (Start: 305 @28924 has 5 MA's), (353, 28819), (360, 28810), (378, 28780), (380, 28777), (435, 28657), (439, 28645), (442, 28639), (483, 28534), (494, 28507), (582, 28366), (585, 28360), (586, 28357), (590, 28345), (606, 28318), (607, 28315), (614, 28300), (618, 28294), (621, 28288), (638, 28255), (701, 28126), (726, 28066), (847, 27751), (850, 27742), (851, 27739), (855, 27721), (873, 27679), (877, 27673), (879, 27664), (888, 27649), (908, 27592), (974, 27433), (989, 27403), (992, 27394), (1010, 27334), (1013, 27310), (1028, 27271), (1040, 27238), (1044, 27226), (1068, 27166),

Gene: SoilSleuth_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for SoilSleuth_10:
(83, 8535), (93, 8499), (98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (515, 7680), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (781, 7005), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1043, 6243), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: Soile_61 Start: 54557, Stop: 52698, Start Num: 190
Candidate Starts for Soile_61:
(Start: 173 @54581 has 3 MA's), (Start: 190 @54557 has 336 MA's), (Start: 222 @54533 has 3 MA's), (Start: 232 @54527 has 2 MA's), (261, 54485), (274, 54464), (336, 54350), (339, 54344), (355, 54314), (390, 54254), (398, 54233), (416, 54179), (429, 54167), (436, 54149), (440, 54137), (487, 54032), (552, 53975), (569, 53939), (573, 53927), (583, 53903), (590, 53891), (601, 53873), (611, 53855), (622, 53837), (643, 53798), (648, 53789), (649, 53786), (651, 53783), (796, 53426), (804, 53393), (812, 53372), (848, 53279), (851, 53270), (877, 53207), (900, 53171), (901, 53168), (906, 53153), (939, 53075), (946, 53063), (953, 53042), (976, 53003), (1013, 52913), (1022, 52895), (1024, 52889), (1032, 52874), (1040, 52850), (1042, 52835), (1043, 52832), (1047, 52820), (1059, 52796), (1082, 52748), (1093, 52724),

Gene: Solea_43 Start: 29387, Stop: 31261, Start Num: 217
Candidate Starts for Solea_43:
(Start: 217 @29387 has 68 MA's), (Start: 273 @29456 has 1 MA's), (Start: 285 @29477 has 1 MA's), (430, 29723), (436, 29738), (448, 29765), (626, 30059), (696, 30194), (741, 30293), (784, 30416), (803, 30476), (806, 30482), (823, 30527), (830, 30542), (833, 30557), (845, 30593), (855, 30629), (898, 30722), (936, 30815), (973, 30893), (1009, 30965), (1018, 31004), (1038, 31046), (1041, 31064), (1058, 31100), (1066, 31124), (1079, 31145),

Gene: SolidSnake_40 Start: 28936, Stop: 27071, Start Num: 301
Candidate Starts for SolidSnake_40:
(Start: 241 @29023 has 3 MA's), (Start: 301 @28936 has 153 MA's), (Start: 305 @28927 has 5 MA's), (353, 28822), (360, 28813), (378, 28783), (380, 28780), (435, 28660), (439, 28648), (442, 28642), (483, 28537), (494, 28510), (582, 28369), (585, 28363), (586, 28360), (590, 28348), (606, 28321), (607, 28318), (614, 28303), (618, 28297), (621, 28291), (638, 28258), (701, 28129), (726, 28069), (847, 27754), (850, 27745), (851, 27742), (855, 27724), (873, 27682), (877, 27676), (879, 27667), (888, 27652), (908, 27595), (974, 27436), (989, 27406), (992, 27397), (1010, 27337), (1013, 27313), (1028, 27274), (1040, 27241), (1044, 27229), (1068, 27169),

Gene: Solon_44 Start: 34769, Stop: 32940, Start Num: 228
Candidate Starts for Solon_44:
(Start: 228 @34769 has 960 MA's), (366, 34556), (373, 34541), (399, 34493), (410, 34463), (418, 34442), (424, 34436), (430, 34427), (479, 34310), (490, 34283), (570, 34190), (576, 34175), (590, 34142), (621, 34091), (622, 34088), (659, 34022), (680, 33992), (690, 33962), (709, 33917), (729,

33878), (803, 33698), (821, 33650), (840, 33602), (851, 33563), (855, 33545), (871, 33506), (895, 33485), (900, 33464), (905, 33449), (955, 33326), (1036, 33155), (1041, 33131), (1062, 33083), (1066, 33071), (1079, 33050), (1083, 33044), (1102, 32996), (1109, 32981),

Gene: Solosis_59 Start: 54029, Stop: 52170, Start Num: 190
Candidate Starts for Solosis_59:
(Start: 173 @54053 has 3 MA's), (Start: 190 @54029 has 336 MA's), (Start: 222 @54005 has 3 MA's), (Start: 232 @53999 has 2 MA's), (261, 53957), (274, 53936), (336, 53822), (339, 53816), (355, 53786), (390, 53726), (398, 53705), (416, 53651), (429, 53639), (436, 53621), (440, 53609), (487, 53504), (552, 53447), (569, 53411), (573, 53399), (585, 53372), (611, 53327), (643, 53270), (648, 53261), (649, 53258), (796, 52898), (804, 52865), (812, 52844), (848, 52751), (851, 52742), (877, 52679), (900, 52643), (901, 52640), (906, 52625), (939, 52547), (946, 52535), (953, 52514), (976, 52475), (1013, 52385), (1022, 52367), (1024, 52361), (1032, 52346), (1040, 52322), (1042, 52307), (1043, 52304), (1047, 52292), (1059, 52268), (1082, 52220), (1093, 52196),

Gene: SonOfLevi_38 Start: 28701, Stop: 26749, Start Num: 241
Candidate Starts for SonOfLevi_38:
(Start: 241 @28701 has 3 MA's), (Start: 301 @28614 has 153 MA's), (Start: 305 @28605 has 5 MA's), (353, 28500), (360, 28491), (378, 28461), (380, 28458), (435, 28338), (439, 28326), (442, 28320), (483, 28215), (494, 28188), (582, 28047), (585, 28041), (586, 28038), (590, 28026), (606, 27999), (607, 27996), (614, 27981), (618, 27975), (621, 27969), (638, 27936), (701, 27807), (726, 27747), (847, 27432), (850, 27423), (851, 27420), (855, 27402), (873, 27360), (877, 27354), (888, 27330), (908, 27273), (974, 27114), (989, 27084), (992, 27075), (1010, 27015), (1013, 26991), (1028, 26952), (1040, 26919), (1044, 26907), (1068, 26847),

Gene: Soondubu_37 Start: 30879, Stop: 32723, Start Num: 228
Candidate Starts for Soondubu_37:
(Start: 228 @30879 has 960 MA's), (391, 31125), (410, 31176), (606, 31518), (626, 31560), (633, 31575), (643, 31587), (696, 31692), (702, 31704), (707, 31713), (768, 31851), (803, 31971), (815, 32001), (855, 32124), (869, 32154), (898, 32217), (901, 32226), (1009, 32460), (1013, 32484), (1032, 32523), (1036, 32535), (1038, 32541), (1041, 32559), (1066, 32619),

Gene: Sooty_38 Start: 27604, Stop: 29586, Start Num: 227
Candidate Starts for Sooty_38:
(Start: 227 @27604 has 33 MA's), (343, 27778), (386, 27841), (400, 27874), (435, 27949), (544, 28177), (626, 28351), (707, 28507), (768, 28645), (795, 28732), (803, 28765), (815, 28795), (836, 28852), (855, 28918), (898, 29011), (1013, 29278), (1024, 29302), (1066, 29413), (1114, 29521),

Gene: Sophia_59 Start: 54023, Stop: 52164, Start Num: 190
Candidate Starts for Sophia_59:
(Start: 173 @54047 has 3 MA's), (Start: 190 @54023 has 336 MA's), (Start: 222 @53999 has 3 MA's), (Start: 232 @53993 has 2 MA's), (261, 53951), (274, 53930), (336, 53816), (339, 53810), (355, 53780), (390, 53720), (398, 53699), (416, 53645), (429, 53633), (436, 53615), (440, 53603), (487, 53498), (552, 53441), (569, 53405), (573, 53393), (585, 53366), (611, 53321), (643, 53264), (648, 53255), (649, 53252), (761, 52994), (796, 52892), (804, 52859), (812, 52838), (848, 52745), (851, 52736), (877, 52673), (901, 52634), (906, 52619), (939, 52541), (946, 52529), (953, 52508), (976, 52469), (1013, 52379), (1022, 52361), (1024, 52355), (1032, 52340), (1040, 52316), (1042, 52301), (1043, 52298), (1047, 52286), (1059, 52262), (1082, 52214), (1093, 52190),

Gene: SorJuana_54 Start: 36486, Stop: 34318, Start Num: 213
Candidate Starts for SorJuana_54:
(212, 36489), (Start: 213 @36486 has 13 MA's), (251, 36432), (299, 36348), (382, 36195), (387, 36186), (404, 36141), (429, 36063), (432, 36054), (438, 36039), (446, 36024), (447, 36021), (467,

35964), (506, 35871), (520, 35829), (601, 35634), (607, 35622), (609, 35616), (622, 35592), (631, 35571), (646, 35550), (653, 35535), (656, 35529), (689, 35466), (709, 35415), (737, 35328), (763, 35268), (778, 35220), (813, 35118), (815, 35112), (824, 35085), (825, 35082), (835, 35061), (848, 35019), (850, 35013), (856, 34989), (876, 34947), (877, 34944), (888, 34917), (896, 34884), (898, 34872), (914, 34836), (924, 34812), (926, 34806), (929, 34800), (950, 34746), (976, 34698), (977, 34695), (1002, 34635), (1009, 34611), (1015, 34581), (1037, 34527), (1054, 34458), (1059, 34446), (1075, 34407),

Gene: Soror1_38 Start: 29069, Stop: 27204, Start Num: 301
Candidate Starts for Soror1_38:
(Start: 301 @29069 has 153 MA's), (Start: 305 @29060 has 5 MA's), (433, 28796), (439, 28781), (442, 28775), (494, 28643), (545, 28589), (552, 28577), (582, 28502), (586, 28493), (590, 28481), (606, 28454), (607, 28451), (614, 28436), (618, 28430), (623, 28418), (659, 28349), (768, 28100), (847, 27887), (850, 27878), (851, 27875), (855, 27857), (873, 27815), (908, 27728), (974, 27569), (989, 27539), (1010, 27470), (1013, 27446), (1028, 27407), (1040, 27374), (1044, 27362),

Gene: SororFago_48 Start: 33066, Stop: 31273, Start Num: 228
Candidate Starts for SororFago_48:
(Start: 228 @33066 has 960 MA's), (235, 33057), (258, 33024), (304, 32955), (360, 32862), (399, 32787), (400, 32784), (424, 32730), (430, 32721), (480, 32601), (490, 32577), (570, 32484), (587, 32439), (659, 32316), (729, 32169), (764, 32118), (803, 31989), (821, 31941), (823, 31938), (830, 31923), (855, 31836), (895, 31776), (897, 31764), (900, 31755), (906, 31737), (935, 31671), (949, 31638), (958, 31611), (1007, 31530), (1009, 31521), (1038, 31440), (1042, 31419), (1045, 31410), (1066, 31362), (1073, 31350), (1079, 31341),

Gene: Sorpresa_44 Start: 34874, Stop: 33048, Start Num: 228
Candidate Starts for Sorpresa_44:
(Start: 228 @34874 has 960 MA's), (366, 34661), (373, 34646), (410, 34568), (418, 34547), (424, 34541), (430, 34532), (479, 34415), (490, 34388), (570, 34295), (576, 34280), (590, 34247), (621, 34196), (622, 34193), (659, 34127), (680, 34097), (690, 34067), (709, 34022), (729, 33983), (803, 33803), (821, 33755), (836, 33716), (855, 33650), (900, 33569), (901, 33566), (935, 33485), (1009, 33335), (1010, 33332), (1018, 33296), (1032, 33272), (1035, 33263), (1039, 33251), (1066, 33176), (1079, 33155),

Gene: Sorvannah_10 Start: 8474, Stop: 6273, Start Num: 176
Candidate Starts for Sorvannah_10:
(106, 8588), (138, 8525), (Start: 176 @8474 has 7 MA's), (209, 8429), (247, 8372), (304, 8288), (333, 8240), (388, 8138), (395, 8123), (451, 7970), (508, 7823), (511, 7802), (645, 7502), (673, 7448), (692, 7400), (711, 7355), (714, 7349), (753, 7265), (778, 7190), (841, 6995), (844, 6983), (857, 6935), (877, 6857), (879, 6848), (910, 6758), (970, 6623), (1019, 6485), (1066, 6359), (1073, 6347), (1077, 6338), (1090, 6308),

Gene: Soshari_50 Start: 31880, Stop: 30066, Start Num: 228
Candidate Starts for Soshari_50:
(Start: 228 @31880 has 960 MA's), (257, 31841), (263, 31829), (360, 31676), (369, 31661), (399, 31604), (424, 31547), (430, 31538), (448, 31496), (465, 31445), (490, 31394), (552, 31340), (570, 31301), (590, 31253), (607, 31229), (626, 31190), (643, 31163), (659, 31133), (703, 31040), (709, 31028), (732, 30980), (742, 30965), (803, 30809), (823, 30758), (835, 30725), (836, 30722), (855, 30656), (871, 30617), (901, 30545), (919, 30506), (929, 30482), (935, 30464), (949, 30431), (992, 30350), (1013, 30290), (1045, 30203), (1066, 30155), (1073, 30143), (1079, 30134), (1082, 30131),

Gene: Soto_59 Start: 53590, Stop: 51731, Start Num: 190
Candidate Starts for Soto_59:

(Start: 173 @53614 has 3 MA's), (Start: 190 @53590 has 336 MA's), (Start: 222 @53566 has 3 MA's), (Start: 232 @53560 has 2 MA's), (249, 53533), (261, 53518), (274, 53497), (336, 53383), (339, 53377), (355, 53347), (390, 53287), (398, 53266), (416, 53212), (429, 53200), (436, 53182), (440, 53170), (487, 53065), (552, 53008), (569, 52972), (573, 52960), (585, 52933), (590, 52924), (611, 52888), (643, 52831), (648, 52822), (649, 52819), (651, 52816), (796, 52459), (804, 52426), (812, 52405), (848, 52312), (851, 52303), (877, 52240), (900, 52204), (901, 52201), (906, 52186), (939, 52108), (946, 52096), (953, 52075), (976, 52036), (1013, 51946), (1022, 51928), (1024, 51922), (1032, 51907), (1040, 51883), (1042, 51868), (1043, 51865), (1047, 51853), (1059, 51829), (1082, 51781), (1093, 51757),

Gene: Soups_47 Start: 29943, Stop: 28153, Start Num: 228
Candidate Starts for Soups_47:
(Start: 228 @29943 has 960 MA's), (343, 29769), (399, 29664), (400, 29661), (410, 29634), (424, 29607), (448, 29556), (490, 29454), (570, 29361), (587, 29316), (590, 29313), (595, 29304), (686, 29142), (696, 29115), (707, 29094), (709, 29088), (768, 28989), (778, 28950), (796, 28899), (803, 28869), (823, 28818), (835, 28785), (845, 28752), (847, 28746), (855, 28716), (895, 28656), (900, 28635), (919, 28593), (930, 28566), (935, 28551), (977, 28464), (1009, 28401), (1010, 28398), (1066, 28242), (1073, 28230), (1082, 28218),

Gene: Sour_53 Start: 49160, Stop: 47364, Start Num: 232
Candidate Starts for Sour_53:
(Start: 221 @49166 has 14 MA's), (Start: 232 @49160 has 2 MA's), (249, 49133), (259, 49121), (261, 49118), (278, 49088), (355, 48962), (411, 48842), (435, 48803), (440, 48788), (476, 48713), (487, 48695), (569, 48602), (590, 48554), (635, 48473), (649, 48449), (660, 48425), (685, 48383), (722, 48302), (725, 48284), (780, 48137), (804, 48062), (846, 47957), (848, 47951), (851, 47942), (877, 47879), (901, 47840), (902, 47837), (906, 47825), (939, 47747), (946, 47735), (953, 47714), (955, 47705), (981, 47666), (1002, 47630), (1007, 47618), (1013, 47585), (1014, 47582), (1040, 47522), (1042, 47507), (1059, 47462), (1082, 47414), (1093, 47390),

Gene: Spartan300_60 Start: 54251, Stop: 52392, Start Num: 190
Candidate Starts for Spartan300_60:
(Start: 173 @54275 has 3 MA's), (Start: 190 @54251 has 336 MA's), (Start: 222 @54227 has 3 MA's), (Start: 232 @54221 has 2 MA's), (261, 54179), (274, 54158), (336, 54044), (339, 54038), (355, 54008), (390, 53948), (398, 53927), (416, 53873), (429, 53861), (436, 53843), (440, 53831), (487, 53726), (552, 53669), (569, 53633), (573, 53621), (583, 53597), (590, 53585), (601, 53567), (611, 53549), (622, 53531), (643, 53492), (648, 53483), (649, 53480), (651, 53477), (796, 53120), (804, 53087), (812, 53066), (848, 52973), (851, 52964), (877, 52901), (900, 52865), (901, 52862), (906, 52847), (939, 52769), (946, 52757), (953, 52736), (976, 52697), (1013, 52607), (1022, 52589), (1024, 52583), (1032, 52568), (1040, 52544), (1042, 52529), (1043, 52526), (1047, 52514), (1059, 52490), (1082, 52442), (1093, 52418),

Gene: Sparxx_46 Start: 31565, Stop: 29739, Start Num: 228
Candidate Starts for Sparxx_46:
(Start: 228 @31565 has 960 MA's), (Start: 241 @31544 has 3 MA's), (263, 31514), (278, 31484), (384, 31322), (394, 31304), (424, 31232), (430, 31223), (480, 31103), (490, 31079), (570, 30986), (592, 30938), (607, 30917), (626, 30878), (707, 30725), (729, 30680), (733, 30668), (798, 30515), (803, 30494), (847, 30371), (855, 30341), (871, 30302), (900, 30236), (901, 30233), (906, 30218), (919, 30194), (929, 30170), (1013, 29963), (1066, 29828), (1073, 29816), (1079, 29807),

Gene: SpecialK_38 Start: 27587, Stop: 29569, Start Num: 227
Candidate Starts for SpecialK_38:
(Start: 227 @27587 has 33 MA's), (343, 27761), (360, 27791), (386, 27824), (400, 27857), (435, 27932), (447, 27959), (544, 28160), (626, 28334), (707, 28490), (768, 28628), (795, 28715), (803,

28748), (815, 28778), (836, 28835), (855, 28901), (898, 28994), (1013, 29261), (1024, 29285), (1066, 29396), (1114, 29504),

Gene: Spike509_48 Start: 31881, Stop: 30067, Start Num: 228
Candidate Starts for Spike509_48:
(Start: 228 @31881 has 960 MA's), (257, 31842), (263, 31830), (360, 31677), (369, 31662), (399, 31605), (424, 31548), (430, 31539), (448, 31497), (465, 31446), (490, 31395), (552, 31341), (570, 31302), (590, 31254), (607, 31230), (626, 31191), (643, 31164), (659, 31134), (703, 31041), (709, 31029), (732, 30981), (742, 30966), (803, 30810), (823, 30759), (835, 30726), (836, 30723), (855, 30657), (871, 30618), (901, 30546), (919, 30507), (929, 30483), (935, 30465), (949, 30432), (992, 30351), (1013, 30291), (1045, 30204), (1066, 30156), (1073, 30144), (1079, 30135), (1082, 30132),

Gene: SpikeBT_45 Start: 35111, Stop: 33285, Start Num: 228
Candidate Starts for SpikeBT_45:
(Start: 228 @35111 has 960 MA's), (366, 34898), (399, 34835), (410, 34805), (418, 34784), (424, 34778), (430, 34769), (479, 34652), (490, 34625), (570, 34532), (576, 34517), (590, 34484), (621, 34433), (622, 34430), (654, 34376), (659, 34364), (680, 34334), (690, 34304), (709, 34259), (729, 34220), (803, 34040), (815, 34010), (821, 33992), (823, 33989), (836, 33953), (855, 33887), (900, 33806), (901, 33803), (935, 33722), (1009, 33572), (1010, 33569), (1018, 33533), (1032, 33509), (1035, 33500), (1039, 33488), (1066, 33413), (1079, 33392),

Gene: Spino_44 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Spino_44:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Spooks_19 Start: 12624, Stop: 10834, Start Num: 228
Candidate Starts for Spooks_19:
(Start: 228 @12624 has 960 MA's), (360, 12423), (366, 12414), (384, 12384), (410, 12321), (424, 12294), (435, 12273), (490, 12141), (565, 12063), (570, 12048), (707, 11778), (709, 11772), (736, 11733), (746, 11718), (781, 11631), (793, 11604), (803, 11562), (826, 11499), (843, 11448), (845, 11442), (855, 11406), (888, 11346), (897, 11334), (900, 11325), (921, 11280), (1007, 11100), (1036, 11016), (1058, 10956), (1066, 10932), (1100, 10863),

Gene: Spouty_45 Start: 31549, Stop: 29756, Start Num: 228
Candidate Starts for Spouty_45:
(Start: 228 @31549 has 960 MA's), (235, 31540), (263, 31498), (342, 31378), (343, 31375), (370, 31327), (400, 31267), (411, 31237), (415, 31225), (424, 31213), (490, 31060), (570, 30967), (643, 30829), (659, 30799), (733, 30640), (742, 30628), (764, 30601), (798, 30493), (803, 30472), (851, 30337), (855, 30319), (900, 30238), (919, 30196), (949, 30121), (990, 30046), (1009, 30004), (1042, 29902), (1066, 29845), (1073, 29833), (1079, 29824),

Gene: Squee_44 Start: 34851, Stop: 33025, Start Num: 228
Candidate Starts for Squee_44:
(Start: 228 @34851 has 960 MA's), (366, 34638), (373, 34623), (399, 34575), (410, 34545), (418, 34524), (424, 34518), (430, 34509), (479, 34392), (490, 34365), (570, 34272), (576, 34257), (621, 34173), (622, 34170), (659, 34104), (680, 34074), (690, 34044), (709, 33999), (729, 33960), (803, 33780), (815, 33750), (821, 33732), (823, 33729), (836, 33693), (855, 33627), (900, 33546), (901, 33543), (935, 33462), (1009, 33312), (1010, 33309), (1018, 33273), (1032, 33249), (1035, 33240), (1039, 33228), (1066, 33153), (1079, 33132),

Gene: Squid_60 Start: 54035, Stop: 52176, Start Num: 190
Candidate Starts for Squid_60:
(Start: 173 @54059 has 3 MA's), (Start: 190 @54035 has 336 MA's), (Start: 222 @54011 has 3 MA's), (Start: 232 @54005 has 2 MA's), (261, 53963), (274, 53942), (336, 53828), (339, 53822), (355, 53792), (390, 53732), (398, 53711), (416, 53657), (429, 53645), (436, 53627), (440, 53615), (487, 53510), (552, 53453), (569, 53417), (573, 53405), (585, 53378), (601, 53351), (611, 53333), (622, 53315), (643, 53276), (648, 53267), (649, 53264), (761, 53006), (796, 52904), (804, 52871), (812, 52850), (848, 52757), (851, 52748), (877, 52685), (900, 52649), (901, 52646), (906, 52631), (939, 52553), (946, 52541), (953, 52520), (976, 52481), (1013, 52391), (1022, 52373), (1024, 52367), (1032, 52352), (1040, 52328), (1042, 52313), (1043, 52310), (1047, 52298), (1059, 52274), (1082, 52226), (1093, 52202),

Gene: Squiggle_61 Start: 54043, Stop: 52184, Start Num: 190
Candidate Starts for Squiggle_61:
(Start: 173 @54067 has 3 MA's), (Start: 190 @54043 has 336 MA's), (Start: 222 @54019 has 3 MA's), (Start: 232 @54013 has 2 MA's), (261, 53971), (274, 53950), (336, 53836), (339, 53830), (355, 53800), (390, 53740), (398, 53719), (416, 53665), (429, 53653), (436, 53635), (440, 53623), (487, 53518), (552, 53461), (569, 53425), (573, 53413), (585, 53386), (611, 53341), (643, 53284), (648, 53275), (649, 53272), (796, 52912), (804, 52879), (812, 52858), (848, 52765), (851, 52756), (877, 52693), (900, 52657), (901, 52654), (906, 52639), (939, 52561), (946, 52549), (953, 52528), (976, 52489), (1010, 52420), (1013, 52399), (1022, 52381), (1024, 52375), (1032, 52360), (1040, 52336), (1042, 52321), (1043, 52318), (1047, 52306), (1059, 52282), (1082, 52234), (1093, 52210),

Gene: Squircle_39 Start: 28105, Stop: 29988, Start Num: 219
Candidate Starts for Squircle_39:
(Start: 219 @28105 has 3 MA's), (Start: 241 @28126 has 3 MA's), (Start: 273 @28174 has 1 MA's), (Start: 285 @28195 has 1 MA's), (360, 28312), (399, 28375), (410, 28405), (418, 28426), (430, 28441), (435, 28453), (473, 28534), (482, 28549), (582, 28705), (601, 28735), (626, 28786), (637, 28807), (645, 28816), (693, 28915), (803, 29203), (806, 29209), (830, 29269), (836, 29290), (845, 29320), (848, 29329), (855, 29356), (898, 29449), (906, 29473), (935, 29539), (936, 29542), (973, 29620), (976, 29626), (1002, 29671), (1024, 29740), (1038, 29773), (1040, 29779), (1041, 29791), (1042, 29794), (1066, 29851), (1075, 29866), (1079, 29872), (1113, 29953),

Gene: StAB_45 Start: 33835, Stop: 35820, Start Num: 173
Candidate Starts for StAB_45:
(Start: 173 @33835 has 3 MA's), (274, 33970), (321, 34036), (386, 34153), (442, 34303), (495, 34432), (503, 34450), (565, 34642), (570, 34657), (657, 34735), (675, 34768), (684, 34786), (714, 34864), (741, 34948), (770, 35017), (809, 35143), (841, 35245), (844, 35254), (849, 35269), (890, 35422), (927, 35518), (934, 35539), (981, 35638), (992, 35674), (1013, 35737),

Gene: StAugustine_85 Start: 66670, Stop: 64871, Start Num: 228
Candidate Starts for StAugustine_85:
(Start: 228 @66670 has 960 MA's), (249, 66637), (261, 66622), (268, 66610), (282, 66583), (307, 66565), (317, 66538), (378, 66445), (390, 66427), (397, 66409), (416, 66352), (447, 66301), (552, 66160), (566, 66133), (569, 66124), (627, 66010), (649, 65971), (664, 65941), (677, 65923), (722, 65809), (761, 65704), (768, 65689), (796, 65602), (804, 65569), (808, 65563), (846, 65461), (848, 65455), (851, 65446), (900, 65347), (901, 65344), (906, 65329), (915, 65314), (939, 65251), (946, 65239), (953, 65218), (1007, 65122), (1013, 65089), (1040, 65026), (1047, 64996), (1053, 64990), (1054, 64984), (1059, 64972), (1081, 64924), (1093, 64897), (1098, 64882), (1100, 64876),

Gene: StCroix_36 Start: 28126, Stop: 26342, Start Num: 228
Candidate Starts for StCroix_36:

(Start: 228 @28126 has 960 MA's), (379, 27892), (396, 27862), (398, 27853), (399, 27850), (415, 27805), (424, 27793), (448, 27742), (490, 27640), (498, 27619), (570, 27547), (587, 27502), (590, 27499), (617, 27457), (619, 27451), (626, 27436), (643, 27409), (696, 27304), (701, 27295), (709, 27277), (710, 27274), (729, 27238), (803, 27058), (821, 27010), (855, 26905), (856, 26902), (895, 26845), (900, 26824), (951, 26701), (992, 26626), (1009, 26590), (1013, 26566), (1042, 26488), (1066, 26431), (1073, 26419), (1094, 26380), (1100, 26362),

Gene: StagePhright_10 Start: 8346, Stop: 6148, Start Num: 161
Candidate Starts for StagePhright_10:
(Start: 161 @8346 has 21 MA's), (235, 8256), (261, 8220), (Start: 285 @8184 has 1 MA's), (299, 8166), (341, 8115), (356, 8085), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (516, 7671), (544, 7578), (571, 7512), (605, 7467), (606, 7464), (654, 7380), (682, 7329), (692, 7296), (714, 7245), (723, 7221), (724, 7218), (753, 7137), (799, 6990), (844, 6852), (857, 6804), (858, 6801), (875, 6729), (880, 6714), (898, 6651), (913, 6621), (1011, 6387), (1013, 6375), (1019, 6357), (1035, 6318), (1036, 6315), (1043, 6285), (1062, 6243), (1064, 6240), (1066, 6231), (1073, 6219),

Gene: Stagni_48 Start: 31855, Stop: 30041, Start Num: 228
Candidate Starts for Stagni_48:
(Start: 228 @31855 has 960 MA's), (257, 31816), (263, 31804), (360, 31651), (369, 31636), (399, 31579), (424, 31522), (430, 31513), (448, 31471), (465, 31420), (490, 31369), (570, 31276), (590, 31228), (595, 31219), (607, 31204), (626, 31165), (643, 31138), (659, 31108), (703, 31015), (732, 30955), (742, 30940), (803, 30784), (836, 30697), (855, 30631), (871, 30592), (901, 30520), (919, 30481), (929, 30457), (935, 30439), (949, 30406), (958, 30379), (992, 30325), (1013, 30265), (1042, 30187), (1066, 30130), (1073, 30118), (1079, 30109),

Gene: Stanktossa_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Stanktossa_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: StarStuff_47 Start: 31156, Stop: 29333, Start Num: 228
Candidate Starts for StarStuff_47:
(Start: 228 @31156 has 960 MA's), (360, 30952), (373, 30928), (384, 30910), (394, 30892), (399, 30877), (400, 30874), (410, 30847), (424, 30820), (448, 30769), (490, 30667), (570, 30574), (590, 30526), (595, 30517), (606, 30505), (643, 30436), (680, 30376), (729, 30262), (742, 30238), (766, 30199), (803, 30073), (823, 30022), (836, 29986), (855, 29920), (871, 29881), (901, 29812), (919, 29773), (936, 29728), (949, 29698), (982, 29635), (990, 29623), (992, 29617), (1013, 29557), (1066, 29422), (1073, 29410), (1079, 29401),

Gene: Stasia_44 Start: 31442, Stop: 29613, Start Num: 228
Candidate Starts for Stasia_44:
(156, 31535), (Start: 166 @31520 has 1 MA's), (168, 31517), (178, 31502), (Start: 228 @31442 has 960 MA's), (263, 31391), (278, 31361), (384, 31199), (394, 31181), (399, 31166), (424, 31109), (430, 31100), (480, 30980), (490, 30956), (570, 30863), (592, 30815), (607, 30794), (626, 30755), (696, 30623), (701, 30614), (707, 30602), (729, 30557), (798, 30392), (803, 30371), (847, 30248), (855, 30218), (871, 30179), (900, 30110), (901, 30107), (906, 30092), (919, 30068), (929, 30044), (931, 30038), (936, 30023), (1013, 29837), (1066, 29702), (1073, 29690), (1079, 29681),

Gene: SteMason_44 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for SteMason_44:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Steamy_41 Start: 30942, Stop: 29098, Start Num: 228
Candidate Starts for Steamy_41:
(92, 31173), (118, 31104), (Start: 228 @30942 has 960 MA's), (Start: 241 @30921 has 3 MA's), (Start: 255 @30906 has 8 MA's), (261, 30894), (343, 30768), (366, 30729), (391, 30684), (400, 30660), (410, 30633), (424, 30606), (435, 30585), (490, 30453), (570, 30360), (590, 30312), (595, 30303), (607, 30288), (643, 30222), (766, 29982), (783, 29919), (803, 29856), (823, 29805), (836, 29769), (847, 29733), (855, 29703), (871, 29664), (895, 29643), (900, 29622), (949, 29505), (976, 29454), (982, 29442), (1009, 29388), (1010, 29385), (1013, 29364), (1038, 29307), (1042, 29286), (1056, 29259), (1066, 29229), (1073, 29217), (1100, 29160),

Gene: StepMih_48 Start: 31846, Stop: 30032, Start Num: 228
Candidate Starts for StepMih_48:
(Start: 228 @31846 has 960 MA's), (257, 31807), (263, 31795), (360, 31642), (369, 31627), (399, 31570), (424, 31513), (430, 31504), (448, 31462), (465, 31411), (490, 31360), (570, 31267), (590, 31219), (595, 31210), (607, 31195), (626, 31156), (643, 31129), (659, 31099), (703, 31006), (732, 30946), (742, 30931), (803, 30775), (836, 30688), (855, 30622), (871, 30583), (901, 30511), (919, 30472), (929, 30448), (935, 30430), (949, 30397), (958, 30370), (992, 30316), (1013, 30256), (1042, 30178), (1066, 30121), (1073, 30109), (1079, 30100),

Gene: Stephig9_43 Start: 30581, Stop: 28737, Start Num: 228
Candidate Starts for Stephig9_43:
(108, 30764), (119, 30746), (Start: 228 @30581 has 960 MA's), (263, 30530), (343, 30407), (360, 30377), (384, 30338), (399, 30305), (410, 30275), (418, 30254), (424, 30248), (430, 30239), (448, 30197), (465, 30146), (489, 30098), (490, 30095), (570, 29999), (580, 29972), (590, 29951), (595, 29942), (626, 29888), (643, 29861), (670, 29813), (686, 29783), (696, 29756), (709, 29729), (733, 29678), (744, 29663), (798, 29516), (803, 29495), (815, 29465), (821, 29447), (823, 29444), (830, 29429), (836, 29408), (840, 29399), (847, 29372), (851, 29360), (855, 29342), (900, 29261), (929, 29195), (942, 29159), (955, 29123), (977, 29090), (990, 29069), (992, 29063), (1010, 29024), (1013, 29003), (1022, 28985), (1066, 28868), (1073, 28856),

Gene: Stewart25555_90 Start: 75056, Stop: 76849, Start Num: 238
Candidate Starts for Stewart25555_90:
(Start: 238 @75056 has 11 MA's), (263, 75092), (390, 75287), (400, 75314), (429, 75368), (439, 75395), (442, 75401), (613, 75653), (626, 75680), (629, 75686), (633, 75695), (637, 75701), (666, 75749), (729, 75881), (774, 75977), (783, 76010), (798, 76049), (803, 76070), (806, 76076), (843, 76187), (845, 76193), (871, 76280), (898, 76343), (902, 76355), (919, 76391), (931, 76421), (932, 76424), (953, 76478), (960, 76496), (1002, 76580), (1009, 76601), (1014, 76628), (1024, 76649), (1036, 76676), (1038, 76682), (1041, 76700), (1066, 76760), (1083, 76787), (1094, 76811),

Gene: StewieG_42 Start: 32301, Stop: 30472, Start Num: 228
Candidate Starts for StewieG_42:
(Start: 228 @32301 has 960 MA's), (366, 32088), (373, 32073), (399, 32025), (410, 31995), (418, 31974), (424, 31968), (430, 31959), (479, 31842), (490, 31815), (570, 31722), (576, 31707), (590, 31674), (621, 31623), (622, 31620), (659, 31554), (680, 31524), (690, 31494), (709, 31449), (729, 31410), (803, 31230), (821, 31182), (840, 31134), (851, 31095), (855, 31077), (871, 31038), (895,

31017), (900, 30996), (905, 30981), (955, 30858), (1036, 30687), (1041, 30663), (1062, 30615), (1066, 30603), (1079, 30582), (1083, 30576), (1102, 30528), (1109, 30513),

Gene: Stiles_45 Start: 33290, Stop: 35275, Start Num: 173
Candidate Starts for Stiles_45:
(Start: 173 @33290 has 3 MA's), (274, 33425), (321, 33491), (386, 33608), (495, 33887), (503, 33905), (565, 34097), (570, 34112), (657, 34190), (675, 34223), (714, 34319), (741, 34403), (770, 34472), (809, 34598), (841, 34700), (844, 34709), (849, 34724), (890, 34877), (927, 34973), (934, 34994), (981, 35093), (1013, 35192),

Gene: StingRay_38 Start: 28635, Stop: 26770, Start Num: 301
Candidate Starts for StingRay_38:
(Start: 241 @28722 has 3 MA's), (Start: 243 @28719 has 1 MA's), (Start: 301 @28635 has 153 MA's), (Start: 305 @28626 has 5 MA's), (353, 28521), (360, 28512), (378, 28482), (380, 28479), (435, 28359), (439, 28347), (442, 28341), (483, 28236), (494, 28209), (582, 28068), (585, 28062), (586, 28059), (590, 28047), (606, 28020), (607, 28017), (614, 28002), (618, 27996), (621, 27990), (638, 27957), (701, 27828), (726, 27768), (847, 27453), (850, 27444), (851, 27441), (855, 27423), (873, 27381), (877, 27375), (879, 27366), (888, 27351), (908, 27294), (974, 27135), (989, 27105), (992, 27096), (1010, 27036), (1013, 27012), (1028, 26973), (1040, 26940), (1044, 26928), (1068, 26868),

Gene: Stinger_54 Start: 52910, Stop: 51081, Start Num: 177
Candidate Starts for Stinger_54:
(Start: 177 @52910 has 1 MA's), (Start: 232 @52880 has 2 MA's), (249, 52853), (261, 52838), (274, 52817), (324, 52730), (336, 52712), (386, 52625), (398, 52598), (402, 52583), (436, 52517), (440, 52505), (449, 52487), (452, 52478), (457, 52475), (458, 52472), (467, 52445), (552, 52352), (560, 52334), (569, 52316), (573, 52304), (585, 52277), (648, 52166), (649, 52163), (664, 52133), (673, 52118), (685, 52097), (721, 52019), (776, 51869), (787, 51833), (797, 51803), (804, 51776), (846, 51668), (848, 51662), (851, 51653), (897, 51563), (900, 51554), (901, 51551), (906, 51536), (939, 51458), (946, 51446), (953, 51425), (955, 51416), (976, 51386), (1007, 51329), (1013, 51296), (1022, 51278), (1024, 51272), (1036, 51245), (1040, 51233), (1042, 51218), (1043, 51215), (1047, 51203), (1059, 51179), (1078, 51137), (1082, 51131), (1093, 51107),

Gene: Stink_45 Start: 31990, Stop: 30161, Start Num: 228
Candidate Starts for Stink_45:
(Start: 228 @31990 has 960 MA's), (263, 31939), (278, 31909), (384, 31747), (394, 31729), (424, 31657), (430, 31648), (480, 31528), (490, 31504), (570, 31411), (592, 31363), (607, 31342), (626, 31303), (654, 31258), (657, 31252), (696, 31171), (701, 31162), (707, 31150), (729, 31105), (733, 31093), (803, 30919), (840, 30823), (847, 30796), (848, 30793), (855, 30766), (871, 30727), (900, 30658), (901, 30655), (906, 30640), (919, 30616), (929, 30592), (931, 30586), (1013, 30385), (1066, 30250), (1073, 30238), (1079, 30229),

Gene: StinkyVeggy_58 Start: 54598, Stop: 52751, Start Num: 174
Candidate Starts for StinkyVeggy_58:
(21, 55093), (22, 55087), (26, 55036), (29, 55018), (35, 54961), (72, 54817), (129, 54664), (174, 54598), (231, 54550), (249, 54523), (283, 54472), (307, 54451), (336, 54397), (364, 54352), (391, 54301), (436, 54202), (457, 54160), (472, 54124), (487, 54094), (569, 54001), (573, 53989), (583, 53965), (590, 53953), (601, 53935), (635, 53872), (649, 53848), (701, 53743), (748, 53620), (776, 53554), (780, 53536), (797, 53488), (804, 53461), (846, 53353), (848, 53347), (851, 53338), (856, 53317), (883, 53254), (901, 53221), (906, 53206), (933, 53146), (939, 53128), (946, 53116), (953, 53095), (955, 53086), (957, 53083), (965, 53071), (1013, 52966), (1022, 52948), (1024, 52942), (1040, 52903), (1042, 52888), (1043, 52885), (1054, 52861), (1059, 52849), (1060, 52846), (1083, 52798), (1093, 52777),

Gene: StirfryIV_38 Start: 28628, Stop: 26763, Start Num: 301
Candidate Starts for StirfryIV_38:
(Start: 241 @28715 has 3 MA's), (Start: 243 @28712 has 1 MA's), (Start: 301 @28628 has 153 MA's), (Start: 305 @28619 has 5 MA's), (353, 28514), (360, 28505), (378, 28475), (380, 28472), (435, 28352), (439, 28340), (442, 28334), (483, 28229), (494, 28202), (582, 28061), (585, 28055), (586, 28052), (590, 28040), (606, 28013), (607, 28010), (614, 27995), (618, 27989), (621, 27983), (638, 27950), (701, 27821), (726, 27761), (847, 27446), (850, 27437), (851, 27434), (855, 27416), (873, 27374), (877, 27368), (879, 27359), (888, 27344), (908, 27287), (974, 27128), (989, 27098), (992, 27089), (1010, 27029), (1013, 27005), (1028, 26966), (1040, 26933), (1044, 26921), (1068, 26861),

Gene: Stoor_43 Start: 30807, Stop: 32681, Start Num: 217
Candidate Starts for Stoor_43:
(Start: 217 @30807 has 68 MA's), (Start: 273 @30876 has 1 MA's), (Start: 285 @30897 has 1 MA's), (430, 31143), (436, 31158), (448, 31185), (572, 31371), (582, 31398), (590, 31413), (626, 31479), (741, 31713), (783, 31833), (784, 31836), (803, 31896), (806, 31902), (823, 31947), (830, 31962), (833, 31977), (845, 32013), (855, 32049), (898, 32142), (936, 32235), (973, 32313), (975, 32316), (1009, 32385), (1013, 32409), (1018, 32424), (1038, 32466), (1041, 32484), (1066, 32544), (1079, 32565),

Gene: Stormbreaker_10 Start: 8646, Stop: 6400, Start Num: 161
Candidate Starts for Stormbreaker_10:
(Start: 161 @8646 has 21 MA's), (247, 8529), (257, 8523), (Start: 285 @8478 has 1 MA's), (291, 8469), (388, 8271), (395, 8256), (451, 8103), (457, 8088), (508, 7956), (511, 7935), (515, 7920), (526, 7860), (556, 7779), (571, 7740), (645, 7635), (714, 7482), (753, 7398), (773, 7341), (778, 7323), (802, 7242), (841, 7128), (844, 7116), (857, 7068), (877, 6990), (879, 6981), (910, 6891), (923, 6867), (935, 6837), (970, 6756), (1019, 6618), (1033, 6582), (1035, 6573), (1053, 6525), (1066, 6486), (1073, 6474),

Gene: Stormbreaker8_38 Start: 29054, Stop: 27189, Start Num: 301
Candidate Starts for Stormbreaker8_38:
(Start: 301 @29054 has 153 MA's), (Start: 305 @29045 has 5 MA's), (433, 28781), (439, 28766), (442, 28760), (494, 28628), (545, 28574), (552, 28562), (582, 28487), (586, 28478), (590, 28466), (606, 28439), (607, 28436), (614, 28421), (618, 28415), (623, 28403), (659, 28334), (768, 28085), (847, 27872), (850, 27863), (851, 27860), (855, 27842), (873, 27800), (908, 27713), (974, 27554), (989, 27524), (1010, 27455), (1013, 27431), (1028, 27392), (1040, 27359), (1044, 27347),

Gene: Strathdee_39 Start: 28935, Stop: 27070, Start Num: 301
Candidate Starts for Strathdee_39:
(Start: 241 @29022 has 3 MA's), (Start: 243 @29019 has 1 MA's), (Start: 301 @28935 has 153 MA's), (Start: 305 @28926 has 5 MA's), (353, 28821), (360, 28812), (378, 28782), (380, 28779), (435, 28659), (439, 28647), (442, 28641), (483, 28536), (494, 28509), (582, 28368), (585, 28362), (586, 28359), (590, 28347), (606, 28320), (607, 28317), (614, 28302), (618, 28296), (621, 28290), (638, 28257), (701, 28128), (726, 28068), (758, 27993), (847, 27753), (850, 27744), (851, 27741), (855, 27723), (873, 27681), (877, 27675), (879, 27666), (888, 27651), (908, 27594), (974, 27435), (989, 27405), (992, 27396), (1010, 27336), (1013, 27312), (1028, 27273), (1040, 27240), (1044, 27228), (1068, 27168),

Gene: Stromboli_43 Start: 30669, Stop: 32543, Start Num: 217
Candidate Starts for Stromboli_43:
(Start: 217 @30669 has 68 MA's), (Start: 273 @30738 has 1 MA's), (Start: 285 @30759 has 1 MA's), (430, 31005), (436, 31020), (448, 31047), (582, 31260), (590, 31275), (626, 31341), (741, 31575), (783, 31695), (784, 31698), (803, 31758), (806, 31764), (823, 31809), (830, 31824), (833, 31839), (845, 31875), (855, 31911), (898, 32004), (936, 32097), (973, 32175), (975, 32178), (1009, 32247), (1013, 32271), (1018, 32286), (1038, 32328), (1041, 32346), (1066, 32406), (1079, 32427),

Gene: StrongArm_44 Start: 35747, Stop: 33960, Start Num: 228
Candidate Starts for StrongArm_44:
(Start: 228 @35747 has 960 MA's), (366, 35534), (399, 35471), (410, 35441), (418, 35420), (424, 35414), (430, 35405), (479, 35288), (490, 35261), (570, 35168), (576, 35153), (590, 35120), (621, 35069), (622, 35066), (659, 35000), (680, 34970), (690, 34940), (709, 34895), (729, 34856), (803, 34676), (821, 34628), (836, 34589), (855, 34523), (897, 34451), (900, 34442), (935, 34358), (977, 34271), (1032, 34145), (1036, 34133), (1058, 34073), (1066, 34049), (1069, 34043),

Gene: Strosahl_47 Start: 29659, Stop: 27869, Start Num: 228
Candidate Starts for Strosahl_47:
(Start: 228 @29659 has 960 MA's), (343, 29485), (399, 29380), (400, 29377), (410, 29350), (424, 29323), (448, 29272), (490, 29170), (570, 29077), (587, 29032), (590, 29029), (595, 29020), (686, 28858), (696, 28831), (707, 28810), (709, 28804), (768, 28705), (778, 28666), (796, 28615), (803, 28585), (823, 28534), (835, 28501), (847, 28462), (855, 28432), (895, 28372), (900, 28351), (919, 28309), (930, 28282), (977, 28180), (1009, 28117), (1010, 28114), (1066, 27958), (1073, 27946), (1082, 27934),

Gene: Struggle_61 Start: 54120, Stop: 52261, Start Num: 190
Candidate Starts for Struggle_61:
(Start: 173 @54144 has 3 MA's), (Start: 190 @54120 has 336 MA's), (Start: 222 @54096 has 3 MA's), (Start: 232 @54090 has 2 MA's), (261, 54048), (274, 54027), (336, 53913), (339, 53907), (355, 53877), (390, 53817), (398, 53796), (416, 53742), (429, 53730), (436, 53712), (440, 53700), (487, 53595), (552, 53538), (569, 53502), (573, 53490), (583, 53466), (590, 53454), (601, 53436), (611, 53418), (622, 53400), (643, 53361), (648, 53352), (649, 53349), (651, 53346), (796, 52989), (804, 52956), (812, 52935), (848, 52842), (851, 52833), (877, 52770), (900, 52734), (901, 52731), (906, 52716), (939, 52638), (946, 52626), (953, 52605), (976, 52566), (1013, 52476), (1022, 52458), (1024, 52452), (1032, 52437), (1040, 52413), (1042, 52398), (1043, 52395), (1047, 52383), (1059, 52359), (1066, 52338), (1082, 52311), (1093, 52287), (1098, 52272),

Gene: Studio_42 Start: 30023, Stop: 28233, Start Num: 214
Candidate Starts for Studio_42:
(168, 30083), (205, 30038), (Start: 214 @30023 has 2 MA's), (Start: 221 @30014 has 14 MA's), (Start: 255 @29969 has 8 MA's), (299, 29891), (328, 29843), (411, 29705), (439, 29651), (482, 29570), (483, 29564), (493, 29540), (570, 29471), (613, 29390), (626, 29363), (633, 29348), (672, 29285), (697, 29228), (712, 29198), (729, 29162), (733, 29150), (748, 29126), (780, 29063), (798, 29012), (806, 28985), (836, 28904), (841, 28889), (848, 28865), (855, 28838), (871, 28799), (902, 28724), (932, 28655), (949, 28613), (951, 28607), (958, 28586), (986, 28532), (991, 28517), (1006, 28490), (1014, 28451), (1038, 28394), (1042, 28373), (1043, 28370), (1047, 28358), (1049, 28352), (1059, 28337),

Gene: Stuu_38 Start: 27699, Stop: 29681, Start Num: 227
Candidate Starts for Stuu_38:
(Start: 227 @27699 has 33 MA's), (343, 27873), (360, 27903), (386, 27936), (400, 27969), (435, 28044), (447, 28071), (489, 28173), (544, 28272), (626, 28446), (643, 28473), (707, 28602), (768, 28740), (795, 28827), (803, 28860), (815, 28890), (836, 28947), (855, 29013), (898, 29106), (1013, 29373), (1024, 29397), (1066, 29508), (1114, 29616),

Gene: SuMoo_50 Start: 32117, Stop: 33982, Start Num: 227
Candidate Starts for SuMoo_50:
(Start: 227 @32117 has 33 MA's), (452, 32504), (587, 32750), (626, 32819), (707, 32972), (736, 33035), (778, 33149), (803, 33230), (828, 33293), (845, 33347), (856, 33386), (936, 33569), (976, 33653), (1040, 33806), (1066, 33878), (1084, 33908),

Gene: Subaru_39 Start: 30351, Stop: 32216, Start Num: 228
Candidate Starts for Subaru_39:
(Start: 228 @30351 has 960 MA's), (261, 30399), (383, 30582), (386, 30588), (410, 30648), (418, 30669), (452, 30738), (576, 30954), (622, 31044), (626, 31053), (633, 31068), (660, 31113), (707, 31206), (768, 31344), (803, 31464), (815, 31494), (836, 31551), (853, 31608), (855, 31617), (867, 31641), (898, 31710), (929, 31782), (932, 31791), (977, 31890), (1009, 31953), (1066, 32112), (1071, 32121),

Gene: Success_19 Start: 11835, Stop: 10045, Start Num: 228
Candidate Starts for Success_19:
(Start: 228 @11835 has 960 MA's), (360, 11634), (366, 11625), (410, 11532), (424, 11505), (435, 11484), (448, 11454), (453, 11439), (490, 11352), (565, 11274), (570, 11259), (626, 11142), (707, 10989), (736, 10944), (746, 10929), (803, 10773), (826, 10710), (830, 10704), (843, 10659), (845, 10653), (855, 10617), (900, 10536), (921, 10491), (1036, 10227), (1058, 10167), (1066, 10143), (1100, 10074), (1101, 10071),

Gene: Sue2_42 Start: 30222, Stop: 32132, Start Num: 228
Candidate Starts for Sue2_42:
(124, 30078), (156, 30132), (Start: 228 @30222 has 960 MA's), (261, 30270), (383, 30453), (386, 30459), (410, 30519), (452, 30609), (572, 30861), (576, 30870), (622, 30960), (626, 30969), (643, 30996), (660, 31029), (707, 31122), (733, 31179), (768, 31260), (803, 31380), (815, 31410), (830, 31446), (836, 31467), (847, 31503), (855, 31533), (898, 31626), (977, 31806), (990, 31827), (1013, 31893), (1066, 32028),

Gene: Suffolk_59 Start: 53538, Stop: 51679, Start Num: 190
Candidate Starts for Suffolk_59:
(Start: 173 @53562 has 3 MA's), (Start: 190 @53538 has 336 MA's), (Start: 222 @53514 has 3 MA's), (Start: 232 @53508 has 2 MA's), (261, 53466), (274, 53445), (336, 53331), (339, 53325), (355, 53295), (390, 53235), (398, 53214), (416, 53160), (429, 53148), (436, 53130), (440, 53118), (487, 53013), (552, 52956), (569, 52920), (573, 52908), (583, 52884), (590, 52872), (601, 52854), (611, 52836), (622, 52818), (643, 52779), (648, 52770), (649, 52767), (651, 52764), (796, 52407), (804, 52374), (812, 52353), (848, 52260), (851, 52251), (877, 52188), (900, 52152), (901, 52149), (906, 52134), (939, 52056), (946, 52044), (953, 52023), (976, 51984), (1013, 51894), (1022, 51876), (1024, 51870), (1032, 51855), (1040, 51831), (1042, 51816), (1043, 51813), (1047, 51801), (1059, 51777), (1082, 51729), (1093, 51705),

Gene: Suigeneris_59 Start: 54668, Stop: 52842, Start Num: 182
Candidate Starts for Suigeneris_59:
(Start: 182 @54668 has 33 MA's), (249, 54614), (293, 54554), (364, 54443), (390, 54395), (436, 54293), (449, 54263), (457, 54251), (472, 54215), (487, 54185), (569, 54092), (573, 54080), (583, 54056), (590, 54044), (601, 54026), (635, 53963), (649, 53939), (651, 53936), (701, 53834), (776, 53645), (780, 53627), (787, 53609), (797, 53579), (804, 53552), (846, 53444), (848, 53438), (851, 53429), (856, 53408), (883, 53345), (901, 53312), (906, 53297), (933, 53237), (939, 53219), (946, 53207), (953, 53186), (955, 53177), (957, 53174), (1013, 53057), (1024, 53033), (1040, 52994), (1042, 52979), (1043, 52976), (1054, 52952), (1059, 52940), (1060, 52937), (1066, 52919), (1083, 52889), (1093, 52868), (1100, 52847),

Gene: Sultana_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for Sultana_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919,

30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: Sumter_42 Start: 34474, Stop: 32645, Start Num: 228
Candidate Starts for Sumter_42:
(Start: 228 @34474 has 960 MA's), (366, 34261), (373, 34246), (410, 34168), (418, 34147), (424, 34141), (430, 34132), (479, 34015), (490, 33988), (570, 33895), (576, 33880), (590, 33847), (621, 33796), (622, 33793), (654, 33739), (659, 33727), (680, 33697), (690, 33667), (709, 33622), (729, 33583), (803, 33403), (821, 33355), (840, 33307), (851, 33268), (855, 33250), (871, 33211), (895, 33190), (900, 33169), (905, 33154), (955, 33031), (1036, 32860), (1041, 32836), (1062, 32788), (1066, 32776), (1079, 32755), (1083, 32749), (1102, 32701), (1109, 32686),

Gene: Sunhee_47 Start: 31200, Stop: 29407, Start Num: 228
Candidate Starts for Sunhee_47:
(Start: 228 @31200 has 960 MA's), (235, 31191), (263, 31149), (343, 31026), (366, 30987), (370, 30978), (400, 30918), (424, 30864), (480, 30735), (490, 30711), (570, 30618), (587, 30573), (659, 30450), (764, 30252), (803, 30123), (847, 30000), (855, 29970), (895, 29910), (900, 29889), (904, 29877), (949, 29772), (955, 29751), (1009, 29655), (1038, 29574), (1042, 29553), (1045, 29544), (1066, 29496), (1073, 29484), (1079, 29475),

Gene: SunnyD_42 Start: 28854, Stop: 30725, Start Num: 228
Candidate Starts for SunnyD_42:
(Start: 228 @28854 has 960 MA's), (Start: 273 @28923 has 1 MA's), (Start: 285 @28944 has 1 MA's), (430, 29187), (435, 29199), (439, 29211), (442, 29217), (473, 29283), (602, 29478), (626, 29526), (759, 29805), (803, 29943), (854, 30090), (855, 30096), (898, 30189), (924, 30249), (973, 30360), (976, 30366), (1024, 30480), (1037, 30510), (1038, 30513), (1066, 30591), (1071, 30600),

Gene: Sunshine924_45 Start: 34152, Stop: 32323, Start Num: 228
Candidate Starts for Sunshine924_45:
(Start: 228 @34152 has 960 MA's), (366, 33939), (399, 33876), (410, 33846), (418, 33825), (424, 33819), (430, 33810), (479, 33693), (490, 33666), (570, 33573), (576, 33558), (621, 33474), (622, 33471), (659, 33405), (680, 33375), (690, 33345), (709, 33300), (729, 33261), (803, 33081), (821, 33033), (840, 32985), (851, 32946), (855, 32928), (871, 32889), (895, 32868), (900, 32847), (905, 32832), (955, 32709), (1036, 32538), (1041, 32514), (1062, 32466), (1066, 32454), (1079, 32433), (1083, 32427), (1102, 32379), (1109, 32364),

Gene: SuperAwesome_45 Start: 29638, Stop: 27797, Start Num: 228
Candidate Starts for SuperAwesome_45:
(Start: 228 @29638 has 960 MA's), (360, 29434), (399, 29359), (400, 29356), (410, 29329), (415, 29314), (424, 29302), (448, 29251), (485, 29161), (490, 29149), (570, 29056), (585, 29017), (595, 28999), (607, 28984), (643, 28918), (660, 28885), (663, 28882), (710, 28780), (742, 28720), (778, 28636), (803, 28555), (835, 28471), (836, 28468), (840, 28459), (847, 28432), (855, 28402), (895, 28342), (906, 28303), (1009, 28087), (1010, 28084), (1013, 28063), (1066, 27928), (1073, 27916), (1079, 27907), (1082, 27904), (1115, 27811),

Gene: SuperCallie99_45 Start: 29637, Stop: 27796, Start Num: 228
Candidate Starts for SuperCallie99_45:
(Start: 228 @29637 has 960 MA's), (360, 29433), (399, 29358), (400, 29355), (410, 29328), (415, 29313), (424, 29301), (448, 29250), (485, 29160), (490, 29148), (570, 29055), (585, 29016), (595, 28998), (607, 28983), (643, 28917), (660, 28884), (663, 28881), (710, 28779), (742, 28719), (778, 28635), (803, 28554), (835, 28470), (836, 28467), (840, 28458), (847, 28431), (855, 28401), (895, 28341), (906, 28302), (1009, 28086), (1010, 28083), (1013, 28062), (1066, 27927), (1073, 27915), (1079, 27906), (1082, 27903), (1115, 27810),

Gene: SuperHands_47 Start: 32961, Stop: 34826, Start Num: 227
Candidate Starts for SuperHands_47:
(138, 32835), (183, 32904), (197, 32922), (Start: 227 @32961 has 33 MA's), (410, 33258), (473, 33402), (572, 33555), (626, 33663), (703, 33810), (707, 33816), (736, 33879), (778, 33993), (803, 34074), (828, 34137), (845, 34191), (847, 34197), (922, 34374), (929, 34392), (932, 34401), (936, 34413), (976, 34497), (1022, 34605), (1040, 34650), (1066, 34722), (1104, 34800), (1112, 34821),

Gene: Superchunk_44 Start: 30012, Stop: 28183, Start Num: 228
Candidate Starts for Superchunk_44:
(Start: 228 @30012 has 960 MA's), (360, 29808), (366, 29799), (384, 29769), (399, 29736), (400, 29733), (410, 29706), (424, 29679), (435, 29658), (490, 29526), (570, 29433), (590, 29385), (643, 29295), (670, 29247), (707, 29166), (803, 28941), (836, 28854), (847, 28818), (855, 28788), (871, 28749), (895, 28728), (900, 28707), (906, 28689), (949, 28590), (958, 28563), (982, 28527), (992, 28509), (1009, 28473), (1066, 28314), (1073, 28302), (1079, 28293), (1100, 28245), (1112, 28215),

Gene: Superfresh_39 Start: 28922, Stop: 27057, Start Num: 301
Candidate Starts for Superfresh_39:
(Start: 241 @29009 has 3 MA's), (Start: 301 @28922 has 153 MA's), (Start: 305 @28913 has 5 MA's), (353, 28808), (360, 28799), (378, 28769), (380, 28766), (435, 28646), (439, 28634), (442, 28628), (483, 28523), (494, 28496), (582, 28355), (585, 28349), (586, 28346), (590, 28334), (606, 28307), (607, 28304), (614, 28289), (618, 28283), (621, 28277), (638, 28244), (701, 28115), (726, 28055), (847, 27740), (850, 27731), (851, 27728), (855, 27710), (873, 27668), (877, 27662), (888, 27638), (908, 27581), (974, 27422), (989, 27392), (992, 27383), (1010, 27323), (1013, 27299), (1028, 27260), (1040, 27227), (1044, 27215), (1068, 27155),

Gene: Surely_60 Start: 54325, Stop: 52466, Start Num: 190
Candidate Starts for Surely_60:
(Start: 173 @54349 has 3 MA's), (Start: 190 @54325 has 336 MA's), (Start: 222 @54301 has 3 MA's), (Start: 232 @54295 has 2 MA's), (261, 54253), (274, 54232), (336, 54118), (339, 54112), (355, 54082), (390, 54022), (398, 54001), (416, 53947), (429, 53935), (436, 53917), (440, 53905), (487, 53800), (552, 53743), (569, 53707), (573, 53695), (585, 53668), (601, 53641), (611, 53623), (622, 53605), (643, 53566), (648, 53557), (649, 53554), (761, 53296), (796, 53194), (804, 53161), (812, 53140), (848, 53047), (851, 53038), (877, 52975), (900, 52939), (901, 52936), (906, 52921), (939, 52843), (946, 52831), (953, 52810), (976, 52771), (1013, 52681), (1022, 52663), (1024, 52657), (1032, 52642), (1040, 52618), (1042, 52603), (1043, 52600), (1047, 52588), (1059, 52564), (1066, 52543), (1082, 52516), (1093, 52492),

Gene: SwainyDoc_59 Start: 54074, Stop: 52254, Start Num: 228
Candidate Starts for SwainyDoc_59:
(Start: 228 @54074 has 960 MA's), (249, 54041), (366, 53861), (411, 53756), (435, 53708), (439, 53696), (452, 53666), (458, 53660), (487, 53597), (489, 53591), (552, 53540), (569, 53504), (590, 53456), (649, 53351), (694, 53255), (722, 53204), (775, 53060), (787, 53021), (797, 52991), (804, 52964), (810, 52952), (846, 52856), (848, 52850), (851, 52841), (854, 52829), (883, 52757), (900, 52727), (906, 52709), (912, 52700), (939, 52631), (946, 52619), (953, 52598), (992, 52529), (1002, 52514), (1010, 52490), (1013, 52469), (1022, 52451), (1024, 52445), (1038, 52412), (1040, 52406), (1043, 52388), (1047, 52376), (1054, 52364), (1059, 52352), (1078, 52310), (1093, 52280),

Gene: Swann_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for Swann_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (710, 27261), (729, 27225), (767, 27168), (803, 27045), (821, 26997), (855, 26892), (856,

26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1079, 26397), (1094, 26367), (1100, 26349),

Gene: SweetiePie_44 Start: 31345, Stop: 29558, Start Num: 228
Candidate Starts for SweetiePie_44:
(Start: 228 @31345 has 960 MA's), (360, 31141), (362, 31138), (366, 31132), (375, 31117), (384, 31102), (399, 31069), (400, 31066), (410, 31039), (424, 31012), (435, 30991), (448, 30961), (490, 30859), (570, 30766), (590, 30718), (595, 30709), (607, 30694), (643, 30628), (686, 30547), (707, 30499), (709, 30493), (742, 30430), (778, 30355), (803, 30274), (823, 30223), (835, 30190), (836, 30187), (855, 30121), (871, 30082), (895, 30061), (924, 29986), (931, 29968), (949, 29923), (958, 29896), (982, 29860), (990, 29848), (992, 29842), (1009, 29806), (1013, 29782), (1042, 29704), (1066, 29647), (1073, 29635), (1079, 29626),

Gene: Swervy_43 Start: 29550, Stop: 31424, Start Num: 217
Candidate Starts for Swervy_43:
(Start: 215 @29547 has 12 MA's), (Start: 217 @29550 has 68 MA's), (Start: 273 @29619 has 1 MA's), (Start: 285 @29640 has 1 MA's), (360, 29757), (399, 29820), (430, 29886), (448, 29928), (626, 30222), (696, 30357), (741, 30456), (784, 30579), (803, 30639), (806, 30645), (823, 30690), (833, 30720), (845, 30756), (855, 30792), (898, 30885), (936, 30978), (973, 31056), (1009, 31128), (1018, 31167), (1038, 31209), (1041, 31227), (1066, 31287), (1079, 31308),

Gene: Swiphy_62 Start: 54569, Stop: 52710, Start Num: 190
Candidate Starts for Swiphy_62:
(Start: 173 @54593 has 3 MA's), (Start: 190 @54569 has 336 MA's), (Start: 222 @54545 has 3 MA's), (Start: 232 @54539 has 2 MA's), (261, 54497), (274, 54476), (336, 54362), (339, 54356), (355, 54326), (390, 54266), (398, 54245), (416, 54191), (429, 54179), (436, 54161), (440, 54149), (487, 54044), (552, 53987), (569, 53951), (573, 53939), (583, 53915), (590, 53903), (601, 53885), (611, 53867), (622, 53849), (643, 53810), (648, 53801), (649, 53798), (651, 53795), (796, 53438), (804, 53405), (812, 53384), (848, 53291), (851, 53282), (877, 53219), (900, 53183), (901, 53180), (906, 53165), (939, 53087), (946, 53075), (953, 53054), (976, 53015), (1013, 52925), (1022, 52907), (1024, 52901), (1032, 52886), (1040, 52862), (1042, 52847), (1043, 52844), (1047, 52832), (1059, 52808), (1082, 52760), (1093, 52736),

Gene: SwirlSquare_46 Start: 30249, Stop: 28459, Start Num: 228
Candidate Starts for SwirlSquare_46:
(Start: 228 @30249 has 960 MA's), (360, 30045), (370, 30027), (391, 29991), (399, 29970), (400, 29967), (410, 29940), (414, 29928), (424, 29913), (435, 29892), (490, 29760), (570, 29667), (590, 29619), (643, 29529), (707, 29400), (803, 29175), (836, 29088), (847, 29052), (855, 29022), (871, 28983), (895, 28962), (900, 28941), (906, 28923), (949, 28824), (958, 28797), (982, 28761), (992, 28743), (1009, 28707), (1013, 28683), (1066, 28548), (1073, 28536), (1079, 28527),

Gene: Swirley_41 Start: 30927, Stop: 29062, Start Num: 228
Candidate Starts for Swirley_41:
(Start: 228 @30927 has 960 MA's), (263, 30876), (304, 30816), (343, 30753), (360, 30723), (362, 30720), (396, 30663), (399, 30651), (410, 30621), (424, 30594), (490, 30441), (570, 30345), (590, 30297), (637, 30213), (643, 30207), (685, 30135), (696, 30102), (703, 30087), (709, 30075), (761, 29976), (803, 29841), (815, 29811), (821, 29793), (830, 29775), (836, 29754), (840, 29745), (855, 29688), (871, 29649), (900, 29607), (906, 29589), (929, 29541), (949, 29490), (977, 29436), (982, 29427), (992, 29409), (1013, 29349), (1022, 29331), (1058, 29238), (1066, 29214), (1073, 29202), (1115, 29097),

Gene: Swish_62 Start: 54299, Stop: 52440, Start Num: 190
Candidate Starts for Swish_62:

(Start: 173 @54323 has 3 MA's), (Start: 190 @54299 has 336 MA's), (Start: 222 @54275 has 3 MA's), (Start: 232 @54269 has 2 MA's), (261, 54227), (274, 54206), (336, 54092), (339, 54086), (355, 54056), (390, 53996), (398, 53975), (416, 53921), (429, 53909), (436, 53891), (440, 53879), (487, 53774), (552, 53717), (569, 53681), (573, 53669), (583, 53645), (590, 53633), (601, 53615), (611, 53597), (622, 53579), (643, 53540), (648, 53531), (649, 53528), (651, 53525), (796, 53168), (804, 53135), (812, 53114), (848, 53021), (851, 53012), (877, 52949), (900, 52913), (901, 52910), (906, 52895), (939, 52817), (946, 52805), (953, 52784), (976, 52745), (1013, 52655), (1022, 52637), (1024, 52631), (1032, 52616), (1040, 52592), (1042, 52577), (1043, 52574), (1047, 52562), (1059, 52538), (1082, 52490), (1093, 52466),

Gene: SwissCheese_46 Start: 34979, Stop: 33153, Start Num: 228
Candidate Starts for SwissCheese_46:
(Start: 228 @34979 has 960 MA's), (366, 34766), (373, 34751), (410, 34673), (418, 34652), (424, 34646), (430, 34637), (479, 34520), (490, 34493), (570, 34400), (576, 34385), (583, 34364), (590, 34352), (621, 34301), (622, 34298), (659, 34232), (680, 34202), (690, 34172), (709, 34127), (729, 34088), (803, 33908), (821, 33860), (836, 33821), (855, 33755), (871, 33716), (895, 33695), (900, 33674), (906, 33656), (935, 33590), (1009, 33440), (1010, 33437), (1018, 33401), (1032, 33377), (1035, 33368), (1039, 33356), (1066, 33281), (1079, 33260),

Gene: SwissCheezer_10 Start: 8628, Stop: 6409, Start Num: 163
Candidate Starts for SwissCheezer_10:
(123, 8697), (147, 8652), (Start: 163 @8628 has 29 MA's), (247, 8514), (257, 8508), (Start: 285 @8463 has 1 MA's), (316, 8403), (388, 8280), (395, 8265), (402, 8241), (451, 8112), (508, 7965), (511, 7944), (515, 7929), (526, 7869), (556, 7788), (571, 7749), (645, 7644), (714, 7491), (753, 7407), (773, 7350), (778, 7332), (802, 7251), (841, 7137), (844, 7125), (857, 7077), (877, 6999), (879, 6990), (910, 6900), (923, 6876), (935, 6846), (970, 6765), (1019, 6627), (1033, 6591), (1035, 6582), (1053, 6534), (1062, 6507), (1066, 6495), (1073, 6483),

Gene: Switzer_45 Start: 34442, Stop: 32616, Start Num: 228
Candidate Starts for Switzer_45:
(Start: 228 @34442 has 960 MA's), (366, 34229), (399, 34166), (410, 34136), (418, 34115), (424, 34109), (430, 34100), (479, 33983), (490, 33956), (570, 33863), (576, 33848), (621, 33764), (622, 33761), (659, 33695), (680, 33665), (690, 33635), (709, 33590), (729, 33551), (803, 33371), (821, 33323), (836, 33284), (855, 33218), (871, 33179), (895, 33158), (900, 33137), (906, 33119), (935, 33053), (1009, 32903), (1010, 32900), (1018, 32864), (1035, 32831), (1039, 32819), (1045, 32792), (1066, 32744), (1079, 32723),

Gene: Switzerland_47 Start: 30042, Stop: 28252, Start Num: 228
Candidate Starts for Switzerland_47:
(Start: 228 @30042 has 960 MA's), (343, 29868), (399, 29763), (400, 29760), (410, 29733), (424, 29706), (448, 29655), (490, 29553), (570, 29460), (587, 29415), (590, 29412), (595, 29403), (686, 29241), (696, 29214), (707, 29193), (709, 29187), (768, 29088), (778, 29049), (796, 28998), (803, 28968), (823, 28917), (835, 28884), (845, 28851), (847, 28845), (855, 28815), (895, 28755), (900, 28734), (919, 28692), (930, 28665), (935, 28650), (977, 28563), (1009, 28500), (1010, 28497), (1066, 28341), (1073, 28329), (1082, 28317),

Gene: Swole_45 Start: 34149, Stop: 32320, Start Num: 228
Candidate Starts for Swole_45:
(Start: 228 @34149 has 960 MA's), (366, 33936), (373, 33921), (399, 33873), (410, 33843), (418, 33822), (424, 33816), (430, 33807), (479, 33690), (490, 33663), (570, 33570), (576, 33555), (583, 33534), (621, 33471), (622, 33468), (659, 33402), (680, 33372), (690, 33342), (709, 33297), (729, 33258), (803, 33078), (821, 33030), (840, 32982), (851, 32943), (855, 32925), (871, 32886), (895, 32865), (900, 32844), (905, 32829), (955, 32706), (1036, 32535), (1041, 32511), (1062, 32463), (1066,

32451), (1079, 32430), (1083, 32424), (1102, 32376), (1109, 32361),

Gene: SydNat_40 Start: 31117, Stop: 29252, Start Num: 228
Candidate Starts for SydNat_40:
(Start: 228 @31117 has 960 MA's), (263, 31066), (304, 31006), (343, 30943), (360, 30913), (362, 30910), (396, 30853), (410, 30811), (424, 30784), (490, 30631), (570, 30535), (582, 30502), (590, 30487), (637, 30403), (643, 30397), (660, 30364), (703, 30277), (709, 30265), (729, 30226), (761, 30166), (803, 30031), (815, 30001), (821, 29983), (835, 29947), (836, 29944), (855, 29878), (871, 29839), (900, 29797), (906, 29779), (929, 29731), (931, 29725), (949, 29680), (977, 29626), (982, 29617), (992, 29599), (1022, 29521), (1041, 29464), (1058, 29428), (1066, 29404), (1073, 29392), (1123, 29260),

Gene: Symere_38 Start: 28615, Stop: 26750, Start Num: 301
Candidate Starts for Symere_38:
(Start: 241 @28702 has 3 MA's), (Start: 243 @28699 has 1 MA's), (Start: 301 @28615 has 153 MA's), (Start: 305 @28606 has 5 MA's), (353, 28501), (360, 28492), (378, 28462), (380, 28459), (435, 28339), (439, 28327), (442, 28321), (483, 28216), (494, 28189), (582, 28048), (585, 28042), (586, 28039), (590, 28027), (606, 28000), (607, 27997), (614, 27982), (618, 27976), (621, 27970), (638, 27937), (701, 27808), (726, 27748), (847, 27433), (850, 27424), (851, 27421), (855, 27403), (873, 27361), (877, 27355), (879, 27346), (888, 27331), (908, 27274), (974, 27115), (989, 27085), (992, 27076), (1010, 27016), (1013, 26992), (1028, 26953), (1040, 26920), (1044, 26908), (1068, 26848),

Gene: SynergyX_58 Start: 53681, Stop: 51864, Start Num: 230
Candidate Starts for SynergyX_58:
(110, 53864), (Start: 230 @53681 has 52 MA's), (249, 53651), (366, 53471), (435, 53318), (439, 53306), (452, 53276), (458, 53270), (487, 53207), (489, 53201), (552, 53150), (569, 53114), (590, 53066), (649, 52961), (694, 52865), (722, 52814), (775, 52670), (787, 52631), (797, 52601), (804, 52574), (810, 52562), (846, 52466), (848, 52460), (851, 52451), (854, 52439), (883, 52367), (900, 52337), (906, 52319), (912, 52310), (939, 52241), (946, 52229), (953, 52208), (992, 52139), (1002, 52124), (1010, 52100), (1013, 52079), (1022, 52061), (1024, 52055), (1038, 52022), (1040, 52016), (1043, 51998), (1047, 51986), (1054, 51974), (1059, 51962), (1078, 51920), (1093, 51890),

Gene: TA17A_58 Start: 52484, Stop: 50655, Start Num: 190
Candidate Starts for TA17A_58:
(Start: 190 @52484 has 336 MA's), (Start: 232 @52457 has 2 MA's), (Start: 255 @52427 has 8 MA's), (261, 52415), (Start: 276 @52388 has 2 MA's), (278, 52385), (284, 52376), (307, 52358), (362, 52262), (390, 52211), (399, 52187), (406, 52163), (467, 52025), (482, 52001), (487, 51989), (552, 51932), (569, 51896), (583, 51860), (630, 51776), (648, 51746), (649, 51743), (664, 51713), (727, 51569), (755, 51503), (775, 51452), (780, 51431), (787, 51413), (804, 51356), (831, 51299), (840, 51272), (848, 51242), (851, 51233), (875, 51167), (897, 51140), (900, 51131), (906, 51113), (919, 51089), (939, 51035), (946, 51023), (953, 51002), (992, 50933), (1013, 50873), (1022, 50855), (1036, 50822), (1040, 50810), (1042, 50795), (1043, 50792), (1047, 50780), (1059, 50756), (1060, 50753), (1082, 50705), (1083, 50702), (1093, 50681), (1100, 50660),

Gene: TG1_31 Start: 25848, Stop: 27695, Start Num: 228
Candidate Starts for TG1_31:
(168, 25767), (181, 25788), (Start: 194 @25803 has 4 MA's), (207, 25821), (Start: 228 @25848 has 960 MA's), (258, 25890), (278, 25929), (300, 25953), (360, 26049), (390, 26097), (409, 26148), (418, 26172), (492, 26337), (572, 26427), (573, 26430), (599, 26484), (607, 26499), (621, 26526), (626, 26538), (633, 26553), (658, 26592), (703, 26685), (707, 26691), (733, 26748), (735, 26751), (795, 26916), (803, 26949), (821, 26997), (828, 27012), (845, 27066), (847, 27072), (853, 27093), (855, 27102), (860, 27117), (870, 27147), (906, 27228), (915, 27243), (975, 27378), (977, 27384), (981, 27390), (1002, 27426), (1018, 27486), (1024, 27495), (1032, 27510), (1036, 27522), (1038, 27528),

(1045, 27558), (1066, 27606), (1069, 27612), (1079, 27627), (1083, 27633),

Gene: TMaxx_42 Start: 29595, Stop: 27817, Start Num: 221
Candidate Starts for TMaxx_42:
(128, 29724), (Start: 221 @29595 has 14 MA's), (274, 29517), (299, 29475), (328, 29427), (399, 29322), (439, 29235), (448, 29217), (482, 29154), (483, 29148), (493, 29124), (570, 29055), (613, 28974), (626, 28947), (633, 28932), (672, 28869), (697, 28812), (712, 28782), (729, 28746), (733, 28734), (748, 28710), (793, 28617), (798, 28596), (803, 28575), (806, 28569), (841, 28473), (848, 28449), (855, 28422), (871, 28383), (919, 28272), (926, 28254), (932, 28239), (949, 28197), (951, 28191), (958, 28170), (986, 28116), (991, 28101), (1014, 28035), (1022, 28020), (1029, 28005), (1036, 27984), (1038, 27978), (1042, 27957), (1043, 27954), (1049, 27936), (1059, 27921), (1101, 27828),

Gene: TNguyen7_46 Start: 31522, Stop: 29684, Start Num: 228
Candidate Starts for TNguyen7_46:
(Start: 228 @31522 has 960 MA's), (263, 31471), (307, 31405), (360, 31318), (396, 31258), (399, 31246), (424, 31189), (430, 31180), (480, 31060), (490, 31036), (570, 30940), (592, 30892), (626, 30832), (663, 30769), (696, 30700), (707, 30679), (744, 30607), (767, 30565), (778, 30523), (803, 30442), (821, 30394), (847, 30319), (855, 30289), (869, 30259), (901, 30178), (919, 30139), (929, 30115), (935, 30097), (992, 29968), (1013, 29908), (1066, 29773), (1073, 29761), (1079, 29752),

Gene: TP1604_48 Start: 39372, Stop: 37372, Start Num: 298
Candidate Starts for TP1604_48:
(Start: 298 @39372 has 15 MA's), (343, 39303), (409, 39171), (411, 39165), (413, 39159), (435, 39111), (439, 39099), (442, 39093), (451, 39072), (456, 39057), (486, 38988), (527, 38847), (568, 38751), (609, 38664), (625, 38640), (631, 38628), (639, 38616), (679, 38547), (733, 38400), (781, 38295), (787, 38280), (806, 38223), (814, 38202), (828, 38160), (838, 38130), (847, 38097), (861, 38043), (870, 38013), (891, 37944), (895, 37923), (919, 37860), (926, 37842), (931, 37830), (939, 37806), (1013, 37605), (1014, 37602), (1039, 37548), (1042, 37530), (1058, 37497), (1066, 37473), (1092, 37425),

Gene: TPA2_63 Start: 52427, Stop: 50550, Start Num: 225
Candidate Starts for TPA2_63:
(54, 52787), (114, 52604), (Start: 225 @52427 has 16 MA's), (Start: 232 @52418 has 2 MA's), (259, 52379), (289, 52337), (295, 52325), (307, 52319), (355, 52232), (362, 52223), (384, 52181), (397, 52154), (404, 52133), (446, 52043), (457, 52022), (464, 52004), (466, 51998), (476, 51980), (552, 51902), (569, 51866), (573, 51854), (574, 51851), (583, 51830), (638, 51734), (655, 51701), (685, 51647), (750, 51482), (772, 51431), (787, 51383), (804, 51326), (836, 51248), (840, 51239), (846, 51215), (848, 51209), (877, 51137), (900, 51101), (906, 51083), (933, 51023), (939, 51005), (946, 50993), (953, 50972), (955, 50963), (989, 50912), (1036, 50792), (1040, 50780), (1054, 50732), (1058, 50723), (1059, 50720), (1062, 50711), (1066, 50699), (1090, 50651), (1105, 50612), (1111, 50594),

Gene: TWAMP_36 Start: 28113, Stop: 26329, Start Num: 228
Candidate Starts for TWAMP_36:
(Start: 228 @28113 has 960 MA's), (379, 27879), (396, 27849), (398, 27840), (399, 27837), (415, 27792), (424, 27780), (448, 27729), (490, 27627), (498, 27606), (570, 27534), (587, 27489), (590, 27486), (617, 27444), (619, 27438), (626, 27423), (643, 27396), (696, 27291), (701, 27282), (709, 27264), (710, 27261), (729, 27225), (803, 27045), (821, 26997), (855, 26892), (856, 26889), (895, 26832), (900, 26811), (922, 26763), (951, 26688), (990, 26619), (1009, 26577), (1013, 26553), (1042, 26475), (1066, 26418), (1073, 26406), (1079, 26397), (1094, 26367), (1100, 26349),

Gene: Tailonex_28 Start: 26933, Stop: 25119, Start Num: 228
Candidate Starts for Tailonex_28:

(Start: 228 @26933 has 960 MA's), (385, 26687), (448, 26555), (490, 26453), (536, 26426), (570, 26360), (574, 26348), (583, 26324), (587, 26315), (654, 26204), (764, 25997), (778, 25949), (803, 25868), (821, 25820), (838, 25778), (851, 25733), (855, 25715), (871, 25676), (895, 25655), (901, 25631), (935, 25550), (1009, 25400), (1066, 25241), (1075, 25226),

Gene: Takoda_36 Start: 28086, Stop: 26302, Start Num: 228
Candidate Starts for Takoda_36:
(Start: 228 @28086 has 960 MA's), (342, 27915), (384, 27843), (398, 27813), (399, 27810), (415, 27765), (424, 27753), (430, 27744), (448, 27702), (490, 27600), (498, 27579), (550, 27549), (570, 27507), (590, 27459), (626, 27396), (643, 27369), (696, 27264), (701, 27255), (709, 27237), (729, 27198), (803, 27018), (821, 26970), (855, 26865), (856, 26862), (895, 26805), (900, 26784), (922, 26736), (951, 26661), (990, 26592), (1009, 26550), (1013, 26526), (1042, 26448), (1066, 26391), (1073, 26379), (1094, 26340), (1100, 26322),

Gene: Talia1610_99 Start: 77815, Stop: 79611, Start Num: 238
Candidate Starts for Talia1610_99:
(Start: 238 @77815 has 11 MA's), (304, 77911), (429, 78127), (439, 78154), (442, 78160), (479, 78229), (493, 78265), (613, 78412), (616, 78418), (626, 78439), (633, 78454), (729, 78643), (753, 78688), (769, 78721), (774, 78739), (783, 78772), (798, 78811), (803, 78832), (806, 78838), (845, 78952), (870, 79036), (876, 79042), (879, 79054), (898, 79102), (902, 79114), (919, 79150), (932, 79183), (935, 79192), (953, 79237), (960, 79255), (1009, 79360), (1014, 79387), (1022, 79402), (1036, 79435), (1041, 79459), (1049, 79483), (1066, 79519), (1083, 79546),

Gene: TallGrassMM_60 Start: 53939, Stop: 52080, Start Num: 190
Candidate Starts for TallGrassMM_60:
(Start: 173 @53963 has 3 MA's), (Start: 190 @53939 has 336 MA's), (Start: 222 @53915 has 3 MA's), (Start: 232 @53909 has 2 MA's), (261, 53867), (274, 53846), (336, 53732), (339, 53726), (355, 53696), (390, 53636), (398, 53615), (416, 53561), (429, 53549), (436, 53531), (440, 53519), (487, 53414), (552, 53357), (569, 53321), (573, 53309), (585, 53282), (611, 53237), (643, 53180), (648, 53171), (649, 53168), (796, 52808), (804, 52775), (812, 52754), (848, 52661), (851, 52652), (877, 52589), (900, 52553), (901, 52550), (906, 52535), (939, 52457), (946, 52445), (953, 52424), (976, 52385), (1013, 52295), (1022, 52277), (1024, 52271), (1032, 52256), (1040, 52232), (1042, 52217), (1043, 52214), (1047, 52202), (1059, 52178), (1082, 52130), (1093, 52106),

Gene: Tallboi_40 Start: 30542, Stop: 32407, Start Num: 228
Candidate Starts for Tallboi_40:
(Start: 228 @30542 has 960 MA's), (261, 30590), (343, 30716), (410, 30839), (452, 30929), (572, 31136), (576, 31145), (626, 31244), (633, 31259), (643, 31271), (707, 31397), (768, 31535), (803, 31655), (815, 31685), (836, 31742), (855, 31808), (898, 31901), (929, 31973), (977, 32081), (1009, 32144), (1066, 32303), (1071, 32312),

Gene: Talos_142 Start: 74147, Stop: 76183, Start Num: 255
Candidate Starts for Talos_142:
(Start: 255 @74147 has 8 MA's), (292, 74213), (308, 74237), (331, 74288), (342, 74303), (360, 74336), (398, 74405), (444, 74540), (456, 74576), (535, 74696), (561, 74750), (564, 74753), (582, 74804), (587, 74816), (626, 74885), (637, 74906), (666, 74954), (806, 75341), (839, 75458), (843, 75476), (894, 75596), (896, 75608), (923, 75677), (926, 75686), (986, 75830), (991, 75845), (1018, 75944), (1045, 76019), (1065, 76091), (1085, 76136), (1088, 76145), (1091, 76151),

Gene: Taquarus_45 Start: 31573, Stop: 29747, Start Num: 228
Candidate Starts for Taquarus_45:
(Start: 228 @31573 has 960 MA's), (Start: 241 @31552 has 3 MA's), (263, 31522), (278, 31492), (384, 31330), (394, 31312), (424, 31240), (430, 31231), (480, 31111), (490, 31087), (570, 30994), (592,

30946), (607, 30925), (626, 30886), (696, 30754), (707, 30733), (729, 30688), (733, 30676), (798, 30523), (803, 30502), (847, 30379), (855, 30349), (871, 30310), (900, 30244), (901, 30241), (906, 30226), (919, 30202), (929, 30178), (1013, 29971), (1066, 29836), (1073, 29824), (1079, 29815),

Gene: Taraxa_63 Start: 53920, Stop: 52061, Start Num: 190
Candidate Starts for Taraxa_63:
(Start: 173 @53944 has 3 MA's), (Start: 190 @53920 has 336 MA's), (Start: 222 @53896 has 3 MA's), (Start: 232 @53890 has 2 MA's), (261, 53848), (274, 53827), (336, 53713), (339, 53707), (355, 53677), (390, 53617), (398, 53596), (416, 53542), (429, 53530), (436, 53512), (440, 53500), (487, 53395), (552, 53338), (569, 53302), (573, 53290), (583, 53266), (590, 53254), (601, 53236), (611, 53218), (622, 53200), (643, 53161), (648, 53152), (649, 53149), (651, 53146), (796, 52789), (804, 52756), (812, 52735), (848, 52642), (851, 52633), (877, 52570), (900, 52534), (901, 52531), (906, 52516), (939, 52438), (946, 52426), (953, 52405), (976, 52366), (1013, 52276), (1022, 52258), (1024, 52252), (1032, 52237), (1040, 52213), (1042, 52198), (1043, 52195), (1047, 52183), (1059, 52159), (1082, 52111), (1093, 52087),

Gene: Target_45 Start: 33552, Stop: 31723, Start Num: 228
Candidate Starts for Target_45:
(Start: 228 @33552 has 960 MA's), (366, 33339), (373, 33324), (399, 33276), (410, 33246), (418, 33225), (424, 33219), (430, 33210), (479, 33093), (490, 33066), (570, 32973), (576, 32958), (590, 32925), (621, 32874), (622, 32871), (659, 32805), (690, 32745), (709, 32700), (729, 32661), (803, 32481), (821, 32433), (840, 32385), (851, 32346), (855, 32328), (871, 32289), (895, 32268), (900, 32247), (905, 32232), (955, 32109), (1036, 31938), (1041, 31914), (1062, 31866), (1066, 31854), (1079, 31833), (1083, 31827), (1102, 31779), (1109, 31764),

Gene: TarsusIV_42 Start: 31027, Stop: 29240, Start Num: 227
Candidate Starts for TarsusIV_42:
(Start: 227 @31027 has 33 MA's), (366, 30814), (375, 30799), (384, 30784), (399, 30751), (400, 30748), (410, 30721), (424, 30694), (430, 30685), (490, 30541), (570, 30448), (583, 30412), (590, 30400), (595, 30391), (607, 30376), (686, 30229), (707, 30181), (709, 30175), (803, 29956), (823, 29905), (835, 29872), (836, 29869), (855, 29803), (871, 29764), (895, 29743), (924, 29668), (929, 29656), (949, 29605), (982, 29542), (1009, 29488), (1013, 29464), (1038, 29407), (1042, 29386), (1066, 29329), (1073, 29317), (1079, 29308),

Gene: Tarynearal_37 Start: 30369, Stop: 28504, Start Num: 228
Candidate Starts for Tarynearal_37:
(Start: 228 @30369 has 960 MA's), (263, 30318), (304, 30258), (343, 30195), (360, 30165), (362, 30162), (396, 30105), (399, 30093), (410, 30063), (424, 30036), (490, 29883), (570, 29787), (590, 29739), (637, 29655), (643, 29649), (685, 29577), (696, 29544), (703, 29529), (709, 29517), (761, 29418), (803, 29283), (815, 29253), (821, 29235), (823, 29232), (836, 29196), (840, 29187), (845, 29166), (848, 29157), (855, 29130), (856, 29127), (895, 29070), (900, 29049), (949, 28932), (977, 28878), (982, 28869), (992, 28851), (1013, 28791), (1022, 28773), (1041, 28716), (1058, 28680), (1066, 28656), (1073, 28644),

Gene: Tasp14_46 Start: 35011, Stop: 33185, Start Num: 228
Candidate Starts for Tasp14_46:
(Start: 228 @35011 has 960 MA's), (366, 34798), (373, 34783), (410, 34705), (418, 34684), (424, 34678), (430, 34669), (479, 34552), (490, 34525), (570, 34432), (576, 34417), (621, 34333), (622, 34330), (659, 34264), (680, 34234), (690, 34204), (709, 34159), (729, 34120), (803, 33940), (821, 33892), (836, 33853), (855, 33787), (871, 33748), (895, 33727), (900, 33706), (906, 33688), (935, 33622), (1009, 33472), (1010, 33469), (1018, 33433), (1032, 33409), (1035, 33400), (1039, 33388), (1066, 33313), (1079, 33292),

Gene: TatarkaPM_39 Start: 29065, Stop: 27074, Start Num: 215
Candidate Starts for TatarkaPM_39:
(13, 29698), (58, 29395), (Start: 215 @29065 has 12 MA's), (240, 29029), (244, 29023), (Start: 301 @28939 has 153 MA's), (Start: 305 @28930 has 5 MA's), (353, 28825), (360, 28816), (378, 28786), (380, 28783), (435, 28663), (439, 28651), (442, 28645), (483, 28540), (494, 28513), (582, 28372), (585, 28366), (586, 28363), (590, 28351), (606, 28324), (607, 28321), (614, 28306), (618, 28300), (621, 28294), (638, 28261), (726, 28072), (847, 27757), (850, 27748), (851, 27745), (855, 27727), (873, 27685), (877, 27679), (879, 27670), (888, 27655), (908, 27598), (974, 27439), (989, 27409), (992, 27400), (1010, 27340), (1013, 27316), (1028, 27277), (1040, 27244), (1044, 27232), (1068, 27172),

Gene: Taurus_49 Start: 31852, Stop: 30038, Start Num: 228
Candidate Starts for Taurus_49:
(Start: 228 @31852 has 960 MA's), (257, 31813), (263, 31801), (360, 31648), (369, 31633), (399, 31576), (424, 31519), (430, 31510), (448, 31468), (465, 31417), (490, 31366), (570, 31273), (590, 31225), (595, 31216), (607, 31201), (626, 31162), (643, 31135), (659, 31105), (703, 31012), (732, 30952), (742, 30937), (803, 30781), (836, 30694), (855, 30628), (871, 30589), (901, 30517), (919, 30478), (929, 30454), (935, 30436), (949, 30403), (958, 30376), (992, 30322), (1013, 30262), (1042, 30184), (1066, 30127), (1073, 30115), (1079, 30106),

Gene: Tbone_40 Start: 29503, Stop: 31368, Start Num: 228
Candidate Starts for Tbone_40:
(Start: 228 @29503 has 960 MA's), (261, 29551), (410, 29800), (452, 29890), (572, 30097), (576, 30106), (622, 30196), (626, 30205), (633, 30220), (660, 30265), (686, 30310), (707, 30358), (733, 30415), (768, 30496), (803, 30616), (815, 30646), (836, 30703), (855, 30769), (867, 30793), (898, 30862), (929, 30934), (932, 30943), (977, 31042), (1009, 31105), (1013, 31129), (1066, 31264), (1071, 31273),

Gene: Teagan_39 Start: 28930, Stop: 27065, Start Num: 301
Candidate Starts for Teagan_39:
(Start: 241 @29017 has 3 MA's), (Start: 243 @29014 has 1 MA's), (Start: 301 @28930 has 153 MA's), (Start: 305 @28921 has 5 MA's), (353, 28816), (360, 28807), (378, 28777), (380, 28774), (435, 28654), (439, 28642), (442, 28636), (483, 28531), (494, 28504), (582, 28363), (585, 28357), (586, 28354), (590, 28342), (606, 28315), (607, 28312), (614, 28297), (618, 28291), (621, 28285), (638, 28252), (726, 28063), (758, 27988), (847, 27748), (850, 27739), (851, 27736), (855, 27718), (873, 27676), (877, 27670), (879, 27661), (888, 27646), (908, 27589), (974, 27430), (989, 27400), (992, 27391), (1010, 27331), (1013, 27307), (1028, 27268), (1040, 27235), (1044, 27223), (1068, 27163),

Gene: Teagster_43 Start: 29747, Stop: 31618, Start Num: 228
Candidate Starts for Teagster_43:
(Start: 228 @29747 has 960 MA's), (Start: 241 @29768 has 3 MA's), (261, 29795), (Start: 273 @29816 has 1 MA's), (Start: 285 @29837 has 1 MA's), (430, 30080), (435, 30092), (439, 30104), (442, 30110), (473, 30176), (583, 30338), (602, 30371), (626, 30419), (759, 30698), (803, 30836), (854, 30983), (855, 30989), (898, 31082), (924, 31142), (973, 31253), (976, 31259), (1024, 31373), (1037, 31403), (1038, 31406), (1066, 31484), (1071, 31493),

Gene: TeddyBear_38 Start: 28632, Stop: 26767, Start Num: 301
Candidate Starts for TeddyBear_38:
(Start: 241 @28719 has 3 MA's), (Start: 301 @28632 has 153 MA's), (Start: 305 @28623 has 5 MA's), (353, 28518), (360, 28509), (378, 28479), (380, 28476), (435, 28356), (439, 28344), (442, 28338), (483, 28233), (494, 28206), (582, 28065), (585, 28059), (586, 28056), (590, 28044), (606, 28017), (607, 28014), (614, 27999), (618, 27993), (621, 27987), (638, 27954), (701, 27825), (726, 27765), (847, 27450), (850, 27441), (851, 27438), (855, 27420), (873, 27378), (877, 27372), (888, 27348),

(908, 27291), (974, 27132), (989, 27102), (992, 27093), (1010, 27033), (1013, 27009), (1028, 26970), (1040, 26937), (1044, 26925), (1068, 26865),

Gene: Telesworld_58 Start: 54144, Stop: 52285, Start Num: 190
Candidate Starts for Telesworld_58:
(Start: 173 @54168 has 3 MA's), (Start: 190 @54144 has 336 MA's), (Start: 222 @54120 has 3 MA's), (Start: 232 @54114 has 2 MA's), (261, 54072), (274, 54051), (336, 53937), (339, 53931), (355, 53901), (390, 53841), (398, 53820), (416, 53766), (429, 53754), (436, 53736), (440, 53724), (487, 53619), (552, 53562), (569, 53526), (573, 53514), (585, 53487), (611, 53442), (643, 53385), (648, 53376), (649, 53373), (796, 53013), (804, 52980), (812, 52959), (848, 52866), (851, 52857), (877, 52794), (900, 52758), (901, 52755), (906, 52740), (939, 52662), (946, 52650), (953, 52629), (976, 52590), (1013, 52500), (1022, 52482), (1024, 52476), (1032, 52461), (1040, 52437), (1042, 52422), (1043, 52419), (1047, 52407), (1059, 52383), (1082, 52335), (1093, 52311),

Gene: Temprado_46 Start: 29791, Stop: 27950, Start Num: 228
Candidate Starts for Temprado_46:
(Start: 228 @29791 has 960 MA's), (360, 29587), (399, 29512), (400, 29509), (410, 29482), (415, 29467), (424, 29455), (448, 29404), (485, 29314), (490, 29302), (570, 29209), (585, 29170), (595, 29152), (607, 29137), (643, 29071), (660, 29038), (663, 29035), (710, 28933), (742, 28873), (778, 28789), (803, 28708), (835, 28624), (836, 28621), (840, 28612), (847, 28585), (855, 28555), (895, 28495), (906, 28456), (1009, 28240), (1010, 28237), (1013, 28216), (1066, 28081), (1073, 28069), (1079, 28060), (1082, 28057), (1115, 27964),

Gene: Tenda_38 Start: 28630, Stop: 26765, Start Num: 301
Candidate Starts for Tenda_38:
(Start: 241 @28717 has 3 MA's), (Start: 243 @28714 has 1 MA's), (Start: 301 @28630 has 153 MA's), (Start: 305 @28621 has 5 MA's), (353, 28516), (360, 28507), (378, 28477), (380, 28474), (435, 28354), (439, 28342), (442, 28336), (483, 28231), (494, 28204), (582, 28063), (585, 28057), (586, 28054), (590, 28042), (606, 28015), (607, 28012), (614, 27997), (618, 27991), (621, 27985), (638, 27952), (701, 27823), (726, 27763), (847, 27448), (850, 27439), (851, 27436), (855, 27418), (873, 27376), (877, 27370), (879, 27361), (888, 27346), (908, 27289), (974, 27130), (989, 27100), (992, 27091), (1010, 27031), (1013, 27007), (1028, 26968), (1040, 26935), (1044, 26923), (1068, 26863),

Gene: Teodoridan_43 Start: 34199, Stop: 32412, Start Num: 228
Candidate Starts for Teodoridan_43:
(Start: 228 @34199 has 960 MA's), (366, 33986), (399, 33923), (410, 33893), (418, 33872), (424, 33866), (430, 33857), (479, 33740), (490, 33713), (570, 33620), (576, 33605), (583, 33584), (621, 33521), (622, 33518), (659, 33452), (680, 33422), (690, 33392), (709, 33347), (729, 33308), (803, 33128), (821, 33080), (836, 33041), (855, 32975), (897, 32903), (900, 32894), (935, 32810), (977, 32723), (1032, 32597), (1036, 32585), (1066, 32501), (1069, 32495),

Gene: Terrific_47 Start: 31714, Stop: 29927, Start Num: 228
Candidate Starts for Terrific_47:
(Start: 228 @31714 has 960 MA's), (360, 31510), (362, 31507), (366, 31501), (384, 31471), (399, 31438), (400, 31435), (410, 31408), (424, 31381), (448, 31330), (490, 31228), (570, 31135), (590, 31087), (595, 31078), (607, 31063), (643, 30997), (686, 30916), (707, 30868), (778, 30724), (803, 30643), (823, 30592), (835, 30559), (855, 30490), (871, 30451), (895, 30430), (897, 30418), (900, 30409), (904, 30397), (990, 30217), (992, 30211), (1009, 30175), (1013, 30151), (1042, 30073), (1066, 30016), (1073, 30004),

Gene: Texage_43 Start: 31598, Stop: 29760, Start Num: 228
Candidate Starts for Texage_43:

(Start: 228 @31598 has 960 MA's), (263, 31547), (360, 31394), (399, 31322), (410, 31292), (424, 31265), (430, 31256), (490, 31112), (570, 31016), (592, 30968), (626, 30908), (681, 30821), (696, 30776), (707, 30755), (744, 30683), (767, 30641), (778, 30599), (803, 30518), (821, 30470), (836, 30431), (847, 30395), (855, 30365), (869, 30335), (901, 30254), (919, 30215), (929, 30191), (935, 30173), (936, 30170), (992, 30044), (1013, 29984), (1045, 29897), (1066, 29849), (1073, 29837), (1079, 29828),

Gene: TforTroy_42 Start: 29677, Stop: 31542, Start Num: 228
Candidate Starts for TforTroy_42:
(Start: 228 @29677 has 960 MA's), (261, 29725), (418, 29995), (462, 30094), (576, 30280), (626, 30379), (633, 30394), (643, 30406), (707, 30532), (768, 30670), (803, 30790), (815, 30820), (836, 30877), (855, 30943), (898, 31036), (1009, 31279), (1066, 31438), (1071, 31447),

Gene: Thanksgivukkah_44 Start: 31568, Stop: 29742, Start Num: 228
Candidate Starts for Thanksgivukkah_44:
(Start: 228 @31568 has 960 MA's), (Start: 241 @31547 has 3 MA's), (263, 31517), (278, 31487), (384, 31325), (394, 31307), (399, 31292), (424, 31235), (430, 31226), (480, 31106), (490, 31082), (570, 30989), (592, 30941), (607, 30920), (626, 30881), (696, 30749), (707, 30728), (729, 30683), (733, 30671), (798, 30518), (803, 30497), (847, 30374), (855, 30344), (871, 30305), (900, 30239), (901, 30236), (906, 30221), (919, 30197), (929, 30173), (1013, 29966), (1066, 29831), (1073, 29819), (1079, 29810),

Gene: Theia_36 Start: 30392, Stop: 28533, Start Num: 228
Candidate Starts for Theia_36:
(Start: 228 @30392 has 960 MA's), (263, 30341), (304, 30281), (343, 30218), (360, 30188), (362, 30185), (396, 30128), (410, 30086), (424, 30059), (490, 29906), (570, 29810), (590, 29762), (637, 29678), (643, 29672), (685, 29600), (696, 29567), (703, 29552), (709, 29540), (761, 29441), (803, 29306), (815, 29276), (821, 29258), (823, 29255), (836, 29219), (840, 29210), (845, 29189), (848, 29180), (855, 29153), (856, 29150), (895, 29093), (900, 29072), (949, 28955), (977, 28901), (982, 28892), (992, 28874), (1022, 28796), (1058, 28703), (1066, 28679), (1073, 28667), (1121, 28550), (1122, 28547),

Gene: TheloniousMonk_46 Start: 36133, Stop: 34346, Start Num: 228
Candidate Starts for TheloniousMonk_46:
(Start: 228 @36133 has 960 MA's), (366, 35920), (373, 35905), (410, 35827), (418, 35806), (424, 35800), (430, 35791), (479, 35674), (490, 35647), (570, 35554), (576, 35539), (590, 35506), (621, 35455), (622, 35452), (654, 35398), (659, 35386), (680, 35356), (690, 35326), (709, 35281), (729, 35242), (803, 35062), (821, 35014), (836, 34975), (855, 34909), (897, 34837), (900, 34828), (935, 34744), (977, 34657), (1032, 34531), (1036, 34519), (1066, 34435), (1069, 34429),

Gene: ThirteenKH_10 Start: 8332, Stop: 6134, Start Num: 163
Candidate Starts for ThirteenKH_10:
(83, 8512), (98, 8461), (129, 8389), (Start: 163 @8332 has 29 MA's), (235, 8242), (258, 8212), (261, 8206), (Start: 285 @8170 has 1 MA's), (299, 8152), (341, 8101), (356, 8071), (402, 7978), (422, 7921), (464, 7813), (482, 7774), (516, 7657), (544, 7564), (548, 7552), (571, 7498), (587, 7456), (624, 7423), (654, 7366), (682, 7315), (692, 7282), (714, 7231), (723, 7207), (724, 7204), (753, 7123), (761, 7102), (844, 6838), (857, 6790), (875, 6715), (880, 6700), (898, 6637), (913, 6607), (1011, 6373), (1013, 6361), (1020, 6340), (1035, 6304), (1036, 6301), (1043, 6271), (1053, 6256), (1064, 6226), (1066, 6217), (1073, 6205),

Gene: Thompsone_39 Start: 28937, Stop: 27072, Start Num: 301
Candidate Starts for Thompsone_39:

(Start: 241 @29024 has 3 MA's), (Start: 243 @29021 has 1 MA's), (Start: 301 @28937 has 153 MA's), (Start: 305 @28928 has 5 MA's), (353, 28823), (360, 28814), (378, 28784), (380, 28781), (433, 28664), (439, 28649), (442, 28643), (483, 28538), (494, 28511), (582, 28370), (586, 28361), (590, 28349), (606, 28322), (607, 28319), (614, 28304), (618, 28298), (621, 28292), (638, 28259), (701, 28130), (726, 28070), (758, 27995), (847, 27755), (850, 27746), (851, 27743), (855, 27725), (873, 27683), (877, 27677), (879, 27668), (888, 27653), (908, 27596), (974, 27437), (989, 27407), (992, 27398), (1010, 27338), (1013, 27314), (1028, 27275), (1040, 27242), (1044, 27230), (1068, 27170),

Gene: Thonko_60 Start: 53153, Stop: 51336, Start Num: 217
Candidate Starts for Thonko_60:
(Start: 217 @53153 has 68 MA's), (Start: 232 @53135 has 2 MA's), (249, 53108), (319, 52991), (362, 52925), (487, 52664), (552, 52607), (569, 52571), (573, 52559), (590, 52523), (608, 52490), (643, 52430), (648, 52421), (649, 52418), (727, 52244), (775, 52127), (781, 52103), (797, 52058), (804, 52031), (812, 52010), (846, 51923), (848, 51917), (851, 51908), (875, 51845), (901, 51806), (903, 51800), (906, 51791), (939, 51713), (946, 51701), (953, 51680), (957, 51668), (976, 51641), (1007, 51584), (1013, 51551), (1024, 51527), (1040, 51488), (1059, 51434), (1093, 51362),

Gene: Thor_43 Start: 33796, Stop: 31970, Start Num: 228
Candidate Starts for Thor_43:
(Start: 228 @33796 has 960 MA's), (366, 33583), (373, 33568), (410, 33490), (418, 33469), (424, 33463), (430, 33454), (479, 33337), (490, 33310), (570, 33217), (576, 33202), (621, 33118), (622, 33115), (659, 33049), (680, 33019), (690, 32989), (709, 32944), (729, 32905), (803, 32725), (821, 32677), (836, 32638), (855, 32572), (871, 32533), (895, 32512), (900, 32491), (906, 32473), (935, 32407), (1009, 32257), (1010, 32254), (1018, 32218), (1035, 32185), (1039, 32173), (1057, 32125), (1066, 32098), (1079, 32077),

Gene: Thora_60 Start: 54321, Stop: 52462, Start Num: 190
Candidate Starts for Thora_60:
(Start: 173 @54345 has 3 MA's), (Start: 190 @54321 has 336 MA's), (Start: 222 @54297 has 3 MA's), (Start: 232 @54291 has 2 MA's), (261, 54249), (274, 54228), (336, 54114), (339, 54108), (355, 54078), (390, 54018), (398, 53997), (416, 53943), (429, 53931), (436, 53913), (440, 53901), (487, 53796), (552, 53739), (569, 53703), (573, 53691), (585, 53664), (601, 53637), (611, 53619), (622, 53601), (643, 53562), (648, 53553), (649, 53550), (761, 53292), (796, 53190), (804, 53157), (812, 53136), (848, 53043), (851, 53034), (877, 52971), (900, 52935), (901, 52932), (906, 52917), (939, 52839), (946, 52827), (953, 52806), (976, 52767), (1013, 52677), (1022, 52659), (1024, 52653), (1032, 52638), (1040, 52614), (1042, 52599), (1043, 52596), (1047, 52584), (1059, 52560), (1082, 52512), (1093, 52488),

Gene: Thorongil_39 Start: 28937, Stop: 27072, Start Num: 301
Candidate Starts for Thorongil_39:
(Start: 241 @29024 has 3 MA's), (Start: 243 @29021 has 1 MA's), (Start: 301 @28937 has 153 MA's), (Start: 305 @28928 has 5 MA's), (353, 28823), (360, 28814), (378, 28784), (380, 28781), (435, 28661), (439, 28649), (442, 28643), (483, 28538), (494, 28511), (582, 28370), (585, 28364), (586, 28361), (590, 28349), (606, 28322), (607, 28319), (614, 28304), (618, 28298), (621, 28292), (638, 28259), (701, 28130), (726, 28070), (847, 27755), (850, 27746), (851, 27743), (855, 27725), (873, 27683), (877, 27677), (879, 27668), (888, 27653), (908, 27596), (974, 27437), (989, 27407), (992, 27398), (1010, 27338), (1013, 27314), (1028, 27275), (1040, 27242), (1044, 27230), (1068, 27170),

Gene: ThreeOh3D2_62 Start: 54542, Stop: 52683, Start Num: 190
Candidate Starts for ThreeOh3D2_62:
(Start: 173 @54566 has 3 MA's), (Start: 190 @54542 has 336 MA's), (Start: 222 @54518 has 3 MA's), (Start: 232 @54512 has 2 MA's), (261, 54470), (274, 54449), (336, 54335), (339, 54329), (355, 54299), (390, 54239), (398, 54218), (416, 54164), (429, 54152), (436, 54134), (440, 54122), (487, 54017),

(552, 53960), (569, 53924), (573, 53912), (585, 53885), (601, 53858), (611, 53840), (622, 53822), (643, 53783), (648, 53774), (649, 53771), (651, 53768), (796, 53411), (804, 53378), (812, 53357), (848, 53264), (851, 53255), (877, 53192), (900, 53156), (901, 53153), (906, 53138), (939, 53060), (946, 53048), (953, 53027), (976, 52988), (1013, 52898), (1022, 52880), (1024, 52874), (1032, 52859), (1040, 52835), (1042, 52820), (1043, 52817), (1047, 52805), (1059, 52781), (1082, 52733), (1093, 52709),

Gene: Thunderbird_60 Start: 54275, Stop: 52416, Start Num: 190
Candidate Starts for Thunderbird_60:
(Start: 173 @54299 has 3 MA's), (Start: 190 @54275 has 336 MA's), (Start: 222 @54251 has 3 MA's), (Start: 232 @54245 has 2 MA's), (261, 54203), (274, 54182), (336, 54068), (339, 54062), (355, 54032), (390, 53972), (398, 53951), (416, 53897), (429, 53885), (436, 53867), (440, 53855), (487, 53750), (552, 53693), (569, 53657), (573, 53645), (585, 53618), (611, 53573), (643, 53516), (648, 53507), (649, 53504), (796, 53144), (804, 53111), (812, 53090), (848, 52997), (851, 52988), (877, 52925), (900, 52889), (901, 52886), (906, 52871), (939, 52793), (946, 52781), (953, 52760), (976, 52721), (1013, 52631), (1022, 52613), (1024, 52607), (1032, 52592), (1040, 52568), (1042, 52553), (1043, 52550), (1047, 52538), (1059, 52514), (1082, 52466), (1093, 52442), (1098, 52427),

Gene: Thunderclap_54 Start: 36908, Stop: 34740, Start Num: 213
Candidate Starts for Thunderclap_54:
(212, 36911), (Start: 213 @36908 has 13 MA's), (251, 36854), (299, 36770), (382, 36617), (387, 36608), (404, 36563), (429, 36485), (432, 36476), (438, 36461), (446, 36446), (447, 36443), (467, 36386), (506, 36293), (520, 36251), (601, 36056), (607, 36044), (609, 36038), (622, 36014), (631, 35993), (646, 35972), (653, 35957), (656, 35951), (689, 35888), (709, 35837), (737, 35750), (763, 35690), (778, 35642), (813, 35540), (815, 35534), (824, 35507), (825, 35504), (835, 35483), (848, 35441), (850, 35435), (856, 35411), (876, 35369), (877, 35366), (888, 35339), (896, 35306), (898, 35294), (914, 35258), (924, 35234), (926, 35228), (929, 35222), (950, 35168), (976, 35120), (977, 35117), (1002, 35057), (1009, 35033), (1015, 35003), (1037, 34949), (1054, 34880), (1059, 34868), (1075, 34829),

Gene: ThursdayNight_45 Start: 30483, Stop: 32327, Start Num: 228
Candidate Starts for ThursdayNight_45:
(Start: 228 @30483 has 960 MA's), (383, 30714), (399, 30750), (492, 30966), (572, 31056), (590, 31098), (623, 31158), (633, 31179), (635, 31182), (686, 31269), (707, 31317), (727, 31356), (736, 31380), (803, 31575), (836, 31662), (853, 31719), (855, 31728), (929, 31893), (1009, 32064), (1038, 32145), (1066, 32223), (1071, 32232),

Gene: Tian_39 Start: 30363, Stop: 32228, Start Num: 228
Candidate Starts for Tian_39:
(Start: 162 @30285 has 1 MA's), (Start: 228 @30363 has 960 MA's), (261, 30411), (343, 30537), (360, 30567), (383, 30594), (386, 30600), (410, 30660), (452, 30750), (572, 30957), (576, 30966), (626, 31065), (633, 31080), (707, 31218), (768, 31356), (795, 31443), (803, 31476), (828, 31539), (836, 31563), (853, 31620), (855, 31629), (898, 31722), (929, 31794), (977, 31902), (1009, 31965), (1013, 31989), (1066, 32124), (1071, 32133),

Gene: TicTac_11 Start: 8838, Stop: 6589, Start Num: 161
Candidate Starts for TicTac_11:
(Start: 122 @8907 has 1 MA's), (149, 8856), (155, 8847), (Start: 161 @8838 has 21 MA's), (291, 8661), (316, 8616), (361, 8532), (388, 8484), (395, 8469), (442, 8337), (451, 8316), (508, 8169), (511, 8148), (517, 8118), (571, 7953), (645, 7848), (692, 7746), (714, 7695), (723, 7671), (724, 7668), (753, 7587), (778, 7512), (841, 7317), (844, 7305), (857, 7257), (862, 7224), (871, 7197), (877, 7179), (879, 7170), (910, 7080), (923, 7056), (970, 6945), (1019, 6807), (1032, 6774), (1035, 6762), (1064, 6684), (1066, 6675), (1073, 6663), (1090, 6624),

Gene: Tiffany_48 Start: 31738, Stop: 29924, Start Num: 228
Candidate Starts for Tiffany_48:
(Start: 228 @31738 has 960 MA's), (257, 31699), (263, 31687), (360, 31534), (369, 31519), (399, 31462), (424, 31405), (430, 31396), (448, 31354), (465, 31303), (490, 31252), (570, 31159), (590, 31111), (595, 31102), (607, 31087), (626, 31048), (643, 31021), (659, 30991), (703, 30898), (732, 30838), (742, 30823), (803, 30667), (836, 30580), (855, 30514), (871, 30475), (901, 30403), (919, 30364), (929, 30340), (935, 30322), (949, 30289), (958, 30262), (992, 30208), (1013, 30148), (1042, 30070), (1066, 30013), (1073, 30001), (1079, 29992),

Gene: Tiger_37 Start: 29925, Stop: 28066, Start Num: 228
Candidate Starts for Tiger_37:
(Start: 228 @29925 has 960 MA's), (263, 29874), (304, 29814), (343, 29751), (360, 29721), (362, 29718), (396, 29661), (399, 29649), (410, 29619), (424, 29592), (490, 29439), (570, 29343), (590, 29295), (606, 29274), (637, 29211), (643, 29205), (685, 29133), (696, 29100), (703, 29085), (709, 29073), (761, 28974), (803, 28839), (815, 28809), (821, 28791), (830, 28773), (836, 28752), (840, 28743), (855, 28686), (871, 28647), (900, 28605), (906, 28587), (929, 28539), (949, 28488), (977, 28434), (982, 28425), (992, 28407), (1013, 28347), (1022, 28329), (1058, 28236), (1066, 28212), (1073, 28200), (1121, 28083), (1122, 28080),

Gene: Timmi_59 Start: 54024, Stop: 52165, Start Num: 190
Candidate Starts for Timmi_59:
(Start: 173 @54048 has 3 MA's), (Start: 190 @54024 has 336 MA's), (Start: 222 @54000 has 3 MA's), (Start: 232 @53994 has 2 MA's), (261, 53952), (274, 53931), (336, 53817), (339, 53811), (355, 53781), (390, 53721), (398, 53700), (416, 53646), (429, 53634), (436, 53616), (440, 53604), (487, 53499), (552, 53442), (569, 53406), (573, 53394), (585, 53367), (611, 53322), (643, 53265), (648, 53256), (649, 53253), (796, 52893), (804, 52860), (812, 52839), (848, 52746), (851, 52737), (877, 52674), (900, 52638), (901, 52635), (906, 52620), (939, 52542), (946, 52530), (953, 52509), (976, 52470), (1013, 52380), (1022, 52362), (1024, 52356), (1032, 52341), (1040, 52317), (1042, 52302), (1043, 52299), (1047, 52287), (1059, 52263), (1082, 52215), (1093, 52191),

Gene: Timothy_45 Start: 30689, Stop: 28902, Start Num: 228
Candidate Starts for Timothy_45:
(Start: 228 @30689 has 960 MA's), (360, 30485), (399, 30413), (410, 30383), (424, 30356), (572, 30104), (595, 30053), (643, 29972), (668, 29927), (707, 29843), (733, 29786), (766, 29744), (778, 29699), (803, 29618), (823, 29567), (836, 29531), (855, 29465), (895, 29405), (897, 29393), (938, 29291), (949, 29267), (954, 29249), (992, 29186), (1007, 29159), (1009, 29150), (1013, 29126), (1066, 28991), (1073, 28979), (1079, 28970),

Gene: Timshel_43 Start: 33330, Stop: 31495, Start Num: 228
Candidate Starts for Timshel_43:
(Start: 228 @33330 has 960 MA's), (304, 33219), (366, 33117), (388, 33081), (398, 33057), (418, 33003), (424, 32997), (435, 32976), (465, 32895), (490, 32844), (565, 32763), (570, 32748), (580, 32721), (587, 32703), (592, 32700), (607, 32679), (626, 32640), (663, 32577), (694, 32511), (696, 32508), (707, 32487), (753, 32397), (767, 32376), (778, 32334), (803, 32253), (821, 32205), (840, 32157), (847, 32130), (855, 32100), (871, 32061), (900, 31992), (901, 31989), (906, 31974), (919, 31950), (935, 31908), (992, 31779), (1007, 31752), (1013, 31719), (1022, 31701), (1036, 31668), (1066, 31584), (1073, 31572), (1079, 31563),

Gene: TinSulphur_39 Start: 28936, Stop: 27071, Start Num: 301
Candidate Starts for TinSulphur_39:
(Start: 241 @29023 has 3 MA's), (Start: 243 @29020 has 1 MA's), (Start: 301 @28936 has 153 MA's), (Start: 305 @28927 has 5 MA's), (353, 28822), (360, 28813), (378, 28783), (380, 28780), (435, 28660),

(439, 28648), (442, 28642), (483, 28537), (494, 28510), (582, 28369), (585, 28363), (586, 28360), (590, 28348), (606, 28321), (607, 28318), (614, 28303), (618, 28297), (621, 28291), (638, 28258), (726, 28069), (847, 27754), (850, 27745), (851, 27742), (855, 27724), (873, 27682), (877, 27676), (879, 27667), (888, 27652), (908, 27595), (974, 27436), (989, 27406), (992, 27397), (1010, 27337), (1013, 27313), (1028, 27274), (1040, 27241), (1044, 27229), (1068, 27169),

Gene: TinaFeyge_45 Start: 31565, Stop: 29739, Start Num: 228
Candidate Starts for TinaFeyge_45:
(Start: 228 @31565 has 960 MA's), (Start: 241 @31544 has 3 MA's), (263, 31514), (278, 31484), (384, 31322), (394, 31304), (424, 31232), (430, 31223), (480, 31103), (490, 31079), (570, 30986), (592, 30938), (607, 30917), (626, 30878), (696, 30746), (707, 30725), (729, 30680), (733, 30668), (798, 30515), (803, 30494), (847, 30371), (855, 30341), (871, 30302), (900, 30236), (901, 30233), (906, 30218), (919, 30194), (929, 30170), (1013, 29963), (1066, 29828), (1073, 29816), (1079, 29807),

Gene: Tinciduntsolum_58 Start: 52640, Stop: 50811, Start Num: 190
Candidate Starts for Tinciduntsolum_58:
(Start: 190 @52640 has 336 MA's), (Start: 232 @52613 has 2 MA's), (Start: 255 @52583 has 8 MA's), (261, 52571), (Start: 276 @52544 has 2 MA's), (278, 52541), (284, 52532), (307, 52514), (362, 52418), (390, 52367), (399, 52343), (467, 52181), (476, 52166), (482, 52157), (487, 52145), (552, 52088), (569, 52052), (573, 52040), (583, 52016), (630, 51932), (648, 51902), (649, 51899), (664, 51869), (727, 51725), (755, 51659), (771, 51620), (775, 51608), (780, 51587), (787, 51569), (804, 51512), (831, 51455), (840, 51428), (848, 51398), (851, 51389), (875, 51323), (897, 51296), (900, 51287), (906, 51269), (919, 51245), (939, 51191), (946, 51179), (953, 51158), (992, 51089), (1013, 51029), (1022, 51011), (1036, 50978), (1040, 50966), (1042, 50951), (1043, 50948), (1047, 50936), (1059, 50912), (1060, 50909), (1082, 50861), (1083, 50858), (1093, 50837), (1100, 50816),

Gene: TinyPebbles_47 Start: 31886, Stop: 30072, Start Num: 228
Candidate Starts for TinyPebbles_47:
(Start: 228 @31886 has 960 MA's), (257, 31847), (263, 31835), (360, 31682), (369, 31667), (399, 31610), (424, 31553), (430, 31544), (448, 31502), (465, 31451), (490, 31400), (552, 31346), (570, 31307), (590, 31259), (607, 31235), (626, 31196), (643, 31169), (659, 31139), (703, 31046), (709, 31034), (732, 30986), (742, 30971), (803, 30815), (823, 30764), (835, 30731), (836, 30728), (855, 30662), (871, 30623), (901, 30551), (919, 30512), (929, 30488), (935, 30470), (949, 30437), (992, 30356), (1013, 30296), (1045, 30209), (1066, 30161), (1073, 30149), (1079, 30140), (1082, 30137),

Gene: TinyTerror_59 Start: 54114, Stop: 52294, Start Num: 228
Candidate Starts for TinyTerror_59:
(Start: 228 @54114 has 960 MA's), (249, 54081), (435, 53748), (439, 53736), (452, 53706), (458, 53700), (487, 53637), (489, 53631), (552, 53580), (569, 53544), (590, 53496), (649, 53391), (694, 53295), (722, 53244), (775, 53100), (787, 53061), (797, 53031), (804, 53004), (810, 52992), (846, 52896), (848, 52890), (851, 52881), (854, 52869), (883, 52797), (900, 52767), (906, 52749), (912, 52740), (939, 52671), (946, 52659), (953, 52638), (992, 52569), (1002, 52554), (1010, 52530), (1013, 52509), (1022, 52491), (1024, 52485), (1038, 52452), (1040, 52446), (1043, 52428), (1047, 52416), (1054, 52404), (1059, 52392), (1078, 52350), (1093, 52320),

Gene: TinyTimmy_45 Start: 30732, Stop: 28945, Start Num: 228
Candidate Starts for TinyTimmy_45:
(Start: 228 @30732 has 960 MA's), (360, 30528), (399, 30456), (410, 30426), (424, 30399), (572, 30147), (595, 30096), (643, 30015), (668, 29970), (707, 29886), (733, 29829), (766, 29787), (778, 29742), (803, 29661), (823, 29610), (836, 29574), (855, 29508), (895, 29448), (897, 29436), (938, 29334), (949, 29310), (954, 29292), (992, 29229), (1007, 29202), (1009, 29193), (1013, 29169), (1066, 29034), (1073, 29022), (1079, 29013),

Gene: TinyTimothy_10 Start: 8474, Stop: 6273, Start Num: 176
Candidate Starts for TinyTimothy_10:
(106, 8588), (138, 8525), (Start: 176 @8474 has 7 MA's), (209, 8429), (247, 8372), (304, 8288), (333, 8240), (388, 8138), (395, 8123), (451, 7970), (479, 7901), (508, 7823), (511, 7802), (645, 7502), (673, 7448), (692, 7400), (711, 7355), (714, 7349), (753, 7265), (778, 7190), (841, 6995), (844, 6983), (857, 6935), (868, 6887), (877, 6857), (879, 6848), (910, 6758), (1019, 6485), (1066, 6359), (1073, 6347), (1077, 6338), (1090, 6308),

Gene: Tinybot_44 Start: 31597, Stop: 29771, Start Num: 228
Candidate Starts for Tinybot_44:
(Start: 228 @31597 has 960 MA's), (Start: 241 @31576 has 3 MA's), (263, 31546), (278, 31516), (384, 31354), (394, 31336), (424, 31264), (430, 31255), (480, 31135), (490, 31111), (570, 31018), (592, 30970), (607, 30949), (626, 30910), (696, 30778), (707, 30757), (729, 30712), (733, 30700), (798, 30547), (803, 30526), (847, 30403), (855, 30373), (871, 30334), (900, 30268), (901, 30265), (906, 30250), (919, 30226), (929, 30202), (1013, 29995), (1066, 29860), (1073, 29848), (1079, 29839),

Gene: Tinyman4_37 Start: 27313, Stop: 25415, Start Num: 297
Candidate Starts for Tinyman4_37:
(18, 28051), (19, 28045), (54, 27790), (268, 27364), (Start: 297 @27313 has 21 MA's), (332, 27250), (353, 27199), (378, 27160), (402, 27103), (431, 27046), (435, 27037), (439, 27025), (442, 27019), (458, 26974), (460, 26968), (533, 26866), (552, 26821), (582, 26746), (586, 26737), (590, 26725), (607, 26695), (618, 26674), (623, 26662), (636, 26638), (708, 26488), (800, 26227), (840, 26125), (845, 26104), (855, 26068), (870, 26032), (873, 26026), (908, 25939), (917, 25912), (974, 25780), (992, 25741), (997, 25720), (1010, 25681), (1013, 25657), (1015, 25651), (1025, 25624), (1068, 25513),

Gene: TipsytheTRex_42 Start: 30574, Stop: 28787, Start Num: 228
Candidate Starts for TipsytheTRex_42:
(Start: 228 @30574 has 960 MA's), (360, 30370), (362, 30367), (366, 30361), (375, 30346), (384, 30331), (399, 30298), (410, 30268), (424, 30241), (435, 30220), (448, 30190), (490, 30088), (570, 29995), (590, 29947), (595, 29938), (607, 29923), (643, 29857), (686, 29776), (707, 29728), (729, 29683), (803, 29503), (821, 29455), (823, 29452), (836, 29416), (855, 29350), (871, 29311), (895, 29290), (924, 29215), (931, 29197), (949, 29152), (958, 29125), (982, 29089), (992, 29071), (1009, 29035), (1013, 29011), (1042, 28933), (1066, 28876), (1073, 28864), (1079, 28855), (1082, 28852),

Gene: TiroTheta9_45 Start: 31564, Stop: 29738, Start Num: 228
Candidate Starts for TiroTheta9_45:
(Start: 228 @31564 has 960 MA's), (Start: 241 @31543 has 3 MA's), (263, 31513), (278, 31483), (384, 31321), (394, 31303), (424, 31231), (430, 31222), (480, 31102), (490, 31078), (570, 30985), (592, 30937), (607, 30916), (626, 30877), (696, 30745), (707, 30724), (729, 30679), (733, 30667), (798, 30514), (803, 30493), (847, 30370), (855, 30340), (871, 30301), (900, 30235), (901, 30232), (906, 30217), (919, 30193), (929, 30169), (1013, 29962), (1066, 29827), (1073, 29815), (1079, 29806),

Gene: Toaka_44 Start: 30969, Stop: 29176, Start Num: 227
Candidate Starts for Toaka_44:
(Start: 227 @30969 has 33 MA's), (235, 30960), (342, 30798), (343, 30795), (360, 30765), (379, 30732), (400, 30687), (410, 30660), (415, 30645), (424, 30633), (448, 30582), (480, 30504), (490, 30480), (570, 30387), (595, 30330), (659, 30219), (704, 30123), (764, 30021), (767, 30015), (803, 29892), (840, 29796), (847, 29769), (851, 29757), (855, 29739), (900, 29658), (949, 29541), (1009, 29424), (1066, 29265), (1073, 29253),

Gene: Todacoro_44 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for Todacoro_44:

(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836), (1079, 29827),

Gene: TomBombadil_60 Start: 54309, Stop: 52450, Start Num: 190
Candidate Starts for TomBombadil_60:
(Start: 173 @54333 has 3 MA's), (Start: 190 @54309 has 336 MA's), (Start: 222 @54285 has 3 MA's), (Start: 232 @54279 has 2 MA's), (261, 54237), (274, 54216), (336, 54102), (339, 54096), (355, 54066), (390, 54006), (398, 53985), (416, 53931), (429, 53919), (436, 53901), (440, 53889), (487, 53784), (552, 53727), (569, 53691), (573, 53679), (585, 53652), (601, 53625), (611, 53607), (622, 53589), (643, 53550), (648, 53541), (649, 53538), (761, 53280), (796, 53178), (804, 53145), (812, 53124), (848, 53031), (851, 53022), (877, 52959), (900, 52923), (901, 52920), (906, 52905), (939, 52827), (946, 52815), (953, 52794), (976, 52755), (1013, 52665), (1022, 52647), (1024, 52641), (1032, 52626), (1040, 52602), (1042, 52587), (1043, 52584), (1047, 52572), (1059, 52548), (1082, 52500), (1093, 52476),

Gene: Tomathan_47 Start: 31153, Stop: 29330, Start Num: 228
Candidate Starts for Tomathan_47:
(Start: 228 @31153 has 960 MA's), (360, 30949), (373, 30925), (384, 30907), (394, 30889), (399, 30874), (400, 30871), (410, 30844), (424, 30817), (448, 30766), (490, 30664), (570, 30571), (590, 30523), (595, 30514), (606, 30502), (607, 30499), (643, 30433), (680, 30373), (729, 30259), (742, 30235), (766, 30196), (803, 30070), (823, 30019), (836, 29983), (855, 29917), (871, 29878), (901, 29809), (919, 29770), (936, 29725), (949, 29695), (982, 29632), (990, 29620), (992, 29614), (1013, 29554), (1066, 29419), (1073, 29407), (1079, 29398),

Gene: Tomlarah_61 Start: 54878, Stop: 53019, Start Num: 190
Candidate Starts for Tomlarah_61:
(Start: 173 @54902 has 3 MA's), (Start: 190 @54878 has 336 MA's), (Start: 222 @54854 has 3 MA's), (Start: 232 @54848 has 2 MA's), (261, 54806), (274, 54785), (336, 54671), (339, 54665), (355, 54635), (390, 54575), (398, 54554), (416, 54500), (429, 54488), (436, 54470), (440, 54458), (487, 54353), (552, 54296), (569, 54260), (573, 54248), (585, 54221), (601, 54194), (611, 54176), (622, 54158), (643, 54119), (648, 54110), (649, 54107), (761, 53849), (796, 53747), (804, 53714), (812, 53693), (848, 53600), (851, 53591), (877, 53528), (900, 53492), (901, 53489), (906, 53474), (939, 53396), (946, 53384), (953, 53363), (976, 53324), (1013, 53234), (1022, 53216), (1024, 53210), (1032, 53195), (1040, 53171), (1042, 53156), (1043, 53153), (1047, 53141), (1059, 53117), (1082, 53069), (1093, 53045),

Gene: ToneTone_42 Start: 29354, Stop: 27513, Start Num: 228
Candidate Starts for ToneTone_42:
(Start: 200 @29384 has 1 MA's), (Start: 228 @29354 has 960 MA's), (360, 29150), (399, 29075), (400, 29072), (410, 29045), (415, 29030), (424, 29018), (448, 28967), (485, 28877), (490, 28865), (570, 28772), (585, 28733), (595, 28715), (607, 28700), (643, 28634), (660, 28601), (663, 28598), (710, 28496), (742, 28436), (778, 28352), (803, 28271), (835, 28187), (836, 28184), (840, 28175), (847, 28148), (855, 28118), (895, 28058), (906, 28019), (1009, 27803), (1010, 27800), (1013, 27779), (1066, 27644), (1073, 27632), (1079, 27623), (1082, 27620), (1115, 27527),

Gene: Toni_60 Start: 54471, Stop: 52612, Start Num: 190
Candidate Starts for Toni_60:
(Start: 173 @54495 has 3 MA's), (Start: 190 @54471 has 336 MA's), (Start: 222 @54447 has 3 MA's), (Start: 232 @54441 has 2 MA's), (261, 54399), (274, 54378), (336, 54264), (339, 54258), (355, 54228),

(390, 54168), (398, 54147), (416, 54093), (429, 54081), (436, 54063), (440, 54051), (487, 53946), (552, 53889), (569, 53853), (573, 53841), (585, 53814), (601, 53787), (611, 53769), (622, 53751), (643, 53712), (648, 53703), (649, 53700), (651, 53697), (796, 53340), (804, 53307), (812, 53286), (848, 53193), (851, 53184), (877, 53121), (900, 53085), (901, 53082), (906, 53067), (939, 52989), (946, 52977), (953, 52956), (976, 52917), (1013, 52827), (1022, 52809), (1024, 52803), (1032, 52788), (1040, 52764), (1042, 52749), (1043, 52746), (1047, 52734), (1059, 52710), (1082, 52662), (1093, 52638),

Gene: TooFast2Furius_60 Start: 54290, Stop: 52431, Start Num: 190
Candidate Starts for TooFast2Furius_60:
(Start: 173 @54314 has 3 MA's), (Start: 190 @54290 has 336 MA's), (Start: 222 @54266 has 3 MA's), (Start: 232 @54260 has 2 MA's), (261, 54218), (274, 54197), (336, 54083), (339, 54077), (355, 54047), (390, 53987), (398, 53966), (416, 53912), (429, 53900), (436, 53882), (440, 53870), (487, 53765), (552, 53708), (569, 53672), (573, 53660), (585, 53633), (601, 53606), (611, 53588), (622, 53570), (643, 53531), (648, 53522), (649, 53519), (796, 53159), (804, 53126), (812, 53105), (848, 53012), (851, 53003), (877, 52940), (900, 52904), (901, 52901), (906, 52886), (939, 52808), (946, 52796), (953, 52775), (976, 52736), (1013, 52646), (1022, 52628), (1024, 52622), (1032, 52607), (1040, 52583), (1042, 52568), (1043, 52565), (1047, 52553), (1059, 52529), (1082, 52481), (1093, 52457),

Gene: Tooj_59 Start: 53694, Stop: 51835, Start Num: 190
Candidate Starts for Tooj_59:
(Start: 173 @53718 has 3 MA's), (Start: 190 @53694 has 336 MA's), (Start: 222 @53670 has 3 MA's), (Start: 232 @53664 has 2 MA's), (261, 53622), (274, 53601), (336, 53487), (339, 53481), (355, 53451), (390, 53391), (398, 53370), (416, 53316), (429, 53304), (436, 53286), (440, 53274), (487, 53169), (552, 53112), (569, 53076), (573, 53064), (585, 53037), (590, 53028), (611, 52992), (643, 52935), (648, 52926), (649, 52923), (651, 52920), (796, 52563), (804, 52530), (812, 52509), (848, 52416), (851, 52407), (877, 52344), (900, 52308), (901, 52305), (906, 52290), (939, 52212), (946, 52200), (953, 52179), (976, 52140), (1013, 52050), (1022, 52032), (1024, 52026), (1032, 52011), (1040, 51987), (1042, 51972), (1043, 51969), (1047, 51957), (1059, 51933), (1082, 51885), (1093, 51861),

Gene: Topanga_42 Start: 31142, Stop: 29307, Start Num: 228
Candidate Starts for Topanga_42:
(Start: 228 @31142 has 960 MA's), (263, 31091), (307, 31025), (360, 30938), (373, 30914), (396, 30878), (399, 30866), (424, 30809), (430, 30800), (462, 30716), (480, 30680), (485, 30668), (490, 30656), (570, 30563), (592, 30515), (626, 30455), (643, 30428), (694, 30326), (696, 30323), (707, 30302), (709, 30296), (767, 30188), (803, 30065), (821, 30017), (847, 29942), (855, 29912), (869, 29882), (871, 29873), (900, 29804), (901, 29801), (919, 29762), (929, 29738), (931, 29732), (935, 29720), (1013, 29531), (1024, 29507), (1045, 29444), (1066, 29396), (1073, 29384), (1079, 29375),

Gene: Topgun_44 Start: 34288, Stop: 32462, Start Num: 228
Candidate Starts for Topgun_44:
(Start: 228 @34288 has 960 MA's), (366, 34075), (373, 34060), (399, 34012), (410, 33982), (418, 33961), (424, 33955), (430, 33946), (479, 33829), (490, 33802), (570, 33709), (576, 33694), (621, 33610), (622, 33607), (659, 33541), (680, 33511), (690, 33481), (709, 33436), (729, 33397), (803, 33217), (821, 33169), (836, 33130), (855, 33064), (871, 33025), (895, 33004), (900, 32983), (906, 32965), (935, 32899), (1009, 32749), (1010, 32746), (1018, 32710), (1032, 32686), (1035, 32677), (1039, 32665), (1057, 32617), (1066, 32590), (1079, 32569),

Gene: Toro_45 Start: 33412, Stop: 31577, Start Num: 228
Candidate Starts for Toro_45:
(Start: 228 @33412 has 960 MA's), (Start: 241 @33391 has 3 MA's), (304, 33301), (388, 33163), (418, 33085), (424, 33079), (490, 32926), (566, 32842), (570, 32830), (587, 32785), (592, 32782), (626, 32722), (657, 32671), (663, 32659), (707, 32569), (729, 32524), (767, 32455), (778, 32413), (798,

32353), (803, 32332), (821, 32284), (840, 32236), (847, 32209), (848, 32206), (855, 32179), (871, 32140), (901, 32071), (919, 32032), (935, 31990), (936, 31987), (949, 31957), (992, 31861), (1007, 31834), (1018, 31786), (1022, 31783), (1066, 31666), (1073, 31654), (1079, 31645),

Gene: Tote_40 Start: 31416, Stop: 29587, Start Num: 228
Candidate Starts for Tote_40:
(Start: 228 @31416 has 960 MA's), (366, 31203), (373, 31188), (399, 31140), (410, 31110), (418, 31089), (424, 31083), (430, 31074), (479, 30957), (490, 30930), (570, 30837), (576, 30822), (583, 30801), (621, 30738), (622, 30735), (659, 30669), (680, 30639), (690, 30609), (709, 30564), (729, 30525), (803, 30345), (821, 30297), (840, 30249), (851, 30210), (855, 30192), (871, 30153), (895, 30132), (900, 30111), (905, 30096), (955, 29973), (1036, 29802), (1041, 29778), (1062, 29730), (1066, 29718), (1079, 29697), (1083, 29691), (1102, 29643), (1109, 29628),

Gene: TownLake_10 Start: 8921, Stop: 6678, Start Num: 163
Candidate Starts for TownLake_10:
(123, 8990), (Start: 163 @8921 has 29 MA's), (247, 8807), (257, 8801), (Start: 285 @8756 has 1 MA's), (291, 8747), (388, 8549), (451, 8381), (457, 8366), (508, 8234), (511, 8213), (515, 8198), (526, 8138), (556, 8057), (571, 8018), (645, 7913), (714, 7760), (721, 7742), (753, 7676), (778, 7601), (802, 7520), (841, 7406), (844, 7394), (857, 7346), (877, 7268), (879, 7259), (910, 7169), (923, 7145), (935, 7115), (970, 7034), (1019, 6896), (1033, 6860), (1035, 6851), (1053, 6803), (1062, 6776), (1066, 6764), (1073, 6752),

Gene: TraderJ_54 Start: 47973, Stop: 46156, Start Num: 225
Candidate Starts for TraderJ_54:
(Start: 225 @47973 has 16 MA's), (Start: 232 @47964 has 2 MA's), (249, 47937), (259, 47925), (274, 47901), (278, 47892), (381, 47718), (411, 47643), (449, 47568), (487, 47490), (552, 47433), (569, 47397), (573, 47385), (583, 47361), (635, 47268), (649, 47244), (658, 47226), (775, 46953), (787, 46914), (797, 46884), (804, 46857), (846, 46749), (848, 46743), (851, 46734), (897, 46644), (900, 46635), (901, 46632), (906, 46617), (939, 46539), (946, 46527), (948, 46521), (953, 46506), (981, 46458), (1007, 46410), (1013, 46377), (1024, 46353), (1040, 46314), (1042, 46299), (1059, 46254), (1093, 46182),

Gene: Traft412_45 Start: 35231, Stop: 33405, Start Num: 228
Candidate Starts for Traft412_45:
(Start: 228 @35231 has 960 MA's), (366, 35018), (373, 35003), (410, 34925), (418, 34904), (424, 34898), (430, 34889), (479, 34772), (490, 34745), (570, 34652), (576, 34637), (583, 34616), (621, 34553), (622, 34550), (654, 34496), (659, 34484), (680, 34454), (690, 34424), (709, 34379), (729, 34340), (803, 34160), (821, 34112), (836, 34073), (855, 34007), (871, 33968), (895, 33947), (900, 33926), (906, 33908), (935, 33842), (1009, 33692), (1010, 33689), (1018, 33653), (1032, 33629), (1035, 33620), (1039, 33608), (1045, 33581), (1066, 33533), (1079, 33512),

Gene: Travvers_47 Start: 31153, Stop: 29330, Start Num: 228
Candidate Starts for Travvers_47:
(Start: 228 @31153 has 960 MA's), (360, 30949), (373, 30925), (384, 30907), (394, 30889), (399, 30874), (400, 30871), (410, 30844), (424, 30817), (448, 30766), (490, 30664), (570, 30571), (590, 30523), (595, 30514), (606, 30502), (607, 30499), (643, 30433), (680, 30373), (729, 30259), (742, 30235), (766, 30196), (803, 30070), (823, 30019), (836, 29983), (855, 29917), (871, 29878), (901, 29809), (919, 29770), (936, 29725), (949, 29695), (982, 29632), (992, 29614), (1013, 29554), (1066, 29419), (1073, 29407), (1079, 29398),

Gene: Treddle_46 Start: 35746, Stop: 33920, Start Num: 228
Candidate Starts for Treddle_46:

(Start: 228 @35746 has 960 MA's), (366, 35533), (373, 35518), (399, 35470), (410, 35440), (418, 35419), (424, 35413), (430, 35404), (479, 35287), (490, 35260), (570, 35167), (576, 35152), (621, 35068), (622, 35065), (659, 34999), (680, 34969), (690, 34939), (709, 34894), (729, 34855), (803, 34675), (821, 34627), (836, 34588), (855, 34522), (900, 34441), (901, 34438), (935, 34357), (1009, 34207), (1010, 34204), (1018, 34168), (1032, 34144), (1035, 34135), (1039, 34123), (1066, 34048), (1079, 34027),

Gene: Tres_57 Start: 52494, Stop: 50665, Start Num: 190
Candidate Starts for Tres_57:
(Start: 190 @52494 has 336 MA's), (Start: 232 @52467 has 2 MA's), (Start: 255 @52437 has 8 MA's), (261, 52425), (Start: 276 @52398 has 2 MA's), (278, 52395), (284, 52386), (307, 52368), (362, 52272), (390, 52221), (399, 52197), (467, 52035), (482, 52011), (487, 51999), (552, 51942), (569, 51906), (573, 51894), (583, 51870), (630, 51786), (648, 51756), (649, 51753), (664, 51723), (727, 51579), (755, 51513), (771, 51474), (775, 51462), (780, 51441), (787, 51423), (804, 51366), (831, 51309), (840, 51282), (848, 51252), (851, 51243), (875, 51177), (897, 51150), (900, 51141), (906, 51123), (919, 51099), (939, 51045), (946, 51033), (953, 51012), (992, 50943), (1013, 50883), (1022, 50865), (1036, 50832), (1040, 50820), (1042, 50805), (1043, 50802), (1047, 50790), (1059, 50766), (1060, 50763), (1082, 50715), (1083, 50712), (1093, 50691), (1100, 50670),

Gene: Triad_62 Start: 53479, Stop: 51620, Start Num: 190
Candidate Starts for Triad_62:
(33, 53875), (54, 53788), (57, 53773), (60, 53767), (65, 53752), (70, 53734), (Start: 173 @53503 has 3 MA's), (Start: 190 @53479 has 336 MA's), (Start: 222 @53455 has 3 MA's), (Start: 232 @53449 has 2 MA's), (261, 53407), (274, 53386), (336, 53272), (339, 53266), (355, 53236), (390, 53176), (398, 53155), (416, 53101), (429, 53089), (440, 53059), (487, 52954), (552, 52897), (569, 52861), (573, 52849), (585, 52822), (590, 52813), (611, 52777), (622, 52759), (643, 52720), (648, 52711), (649, 52708), (796, 52348), (804, 52315), (812, 52294), (848, 52201), (851, 52192), (877, 52129), (900, 52093), (901, 52090), (906, 52075), (939, 51997), (946, 51985), (953, 51964), (976, 51925), (1013, 51835), (1022, 51817), (1024, 51811), (1032, 51796), (1040, 51772), (1042, 51757), (1043, 51754), (1047, 51742), (1059, 51718), (1082, 51670), (1093, 51646),

Gene: Trike_42 Start: 30393, Stop: 28561, Start Num: 228
Candidate Starts for Trike_42:
(Start: 228 @30393 has 960 MA's), (263, 30342), (307, 30276), (360, 30189), (366, 30180), (396, 30129), (399, 30117), (424, 30060), (458, 29979), (462, 29967), (465, 29958), (480, 29931), (490, 29907), (570, 29814), (585, 29775), (626, 29706), (643, 29679), (709, 29547), (803, 29319), (830, 29253), (847, 29196), (855, 29166), (871, 29127), (901, 29055), (906, 29040), (919, 29016), (935, 28974), (949, 28941), (1013, 28785), (1024, 28761), (1045, 28698), (1066, 28650), (1073, 28638), (1079, 28629),

Gene: Trine_42 Start: 34854, Stop: 32935, Start Num: 152
Candidate Starts for Trine_42:
(Start: 152 @34854 has 1 MA's), (183, 34812), (202, 34788), (Start: 228 @34758 has 960 MA's), (Start: 255 @34722 has 8 MA's), (261, 34710), (278, 34680), (358, 34560), (391, 34500), (406, 34455), (416, 34428), (440, 34389), (447, 34377), (468, 34326), (487, 34293), (536, 34260), (550, 34242), (569, 34203), (617, 34107), (632, 34080), (643, 34062), (649, 34050), (664, 34020), (750, 33816), (775, 33747), (783, 33717), (787, 33708), (796, 33684), (804, 33651), (840, 33570), (848, 33540), (885, 33450), (900, 33429), (901, 33426), (906, 33411), (919, 33387), (939, 33333), (946, 33321), (977, 33258), (1000, 33204), (1007, 33186), (1043, 33072), (1059, 33036), (1082, 32985), (1093, 32961), (1100, 32940),

Gene: Tripl3t_45 Start: 35417, Stop: 33591, Start Num: 228
Candidate Starts for Tripl3t_45:

(Start: 228 @35417 has 960 MA's), (366, 35204), (373, 35189), (399, 35141), (410, 35111), (418, 35090), (424, 35084), (430, 35075), (479, 34958), (490, 34931), (570, 34838), (576, 34823), (590, 34790), (621, 34739), (622, 34736), (659, 34670), (680, 34640), (690, 34610), (709, 34565), (729, 34526), (803, 34346), (821, 34298), (836, 34259), (855, 34193), (871, 34154), (895, 34133), (900, 34112), (906, 34094), (935, 34028), (1009, 33878), (1010, 33875), (1018, 33839), (1032, 33815), (1035, 33806), (1039, 33794), (1066, 33719), (1079, 33698),

Gene: TripleC_42 Start: 31922, Stop: 30141, Start Num: 221
Candidate Starts for TripleC_42:
(121, 32069), (128, 32054), (Start: 145 @32027 has 7 MA's), (Start: 221 @31922 has 14 MA's), (247, 31883), (274, 31841), (299, 31799), (328, 31751), (413, 31607), (439, 31559), (448, 31541), (482, 31478), (483, 31472), (493, 31448), (570, 31379), (613, 31298), (626, 31271), (633, 31256), (672, 31193), (697, 31136), (712, 31106), (729, 31070), (733, 31058), (748, 31034), (798, 30920), (803, 30899), (806, 30893), (815, 30869), (822, 30848), (841, 30797), (848, 30773), (855, 30746), (871, 30707), (932, 30563), (949, 30521), (951, 30515), (958, 30494), (986, 30440), (991, 30425), (1014, 30359), (1038, 30302), (1042, 30281), (1043, 30278), (1049, 30260), (1059, 30245), (1101, 30152),

Gene: TrippleS_10 Start: 8338, Stop: 6134, Start Num: 163
Candidate Starts for TrippleS_10:
(83, 8518), (98, 8467), (129, 8395), (Start: 163 @8338 has 29 MA's), (235, 8248), (258, 8218), (261, 8212), (Start: 285 @8176 has 1 MA's), (341, 8101), (402, 7978), (422, 7921), (464, 7813), (482, 7774), (516, 7657), (544, 7564), (548, 7552), (571, 7498), (587, 7456), (624, 7423), (654, 7366), (682, 7315), (692, 7282), (714, 7231), (723, 7207), (724, 7204), (753, 7123), (761, 7102), (832, 6883), (844, 6838), (857, 6790), (875, 6715), (880, 6700), (898, 6637), (913, 6607), (1011, 6373), (1013, 6361), (1020, 6340), (1035, 6304), (1036, 6301), (1043, 6271), (1053, 6256), (1064, 6226), (1066, 6217), (1073, 6205),

Gene: Tristan_44 Start: 32429, Stop: 30639, Start Num: 228
Candidate Starts for Tristan_44:
(Start: 228 @32429 has 960 MA's), (360, 32225), (366, 32216), (400, 32147), (410, 32120), (424, 32093), (490, 31940), (565, 31862), (570, 31847), (590, 31799), (595, 31790), (607, 31775), (643, 31709), (660, 31676), (701, 31592), (742, 31511), (766, 31481), (803, 31355), (815, 31325), (823, 31304), (847, 31232), (855, 31202), (871, 31163), (895, 31142), (900, 31121), (904, 31109), (982, 30941), (990, 30929), (1009, 30887), (1013, 30863), (1038, 30806), (1042, 30785), (1045, 30776), (1066, 30728), (1073, 30716), (1079, 30707),

Gene: Trixie_44 Start: 31811, Stop: 30024, Start Num: 228
Candidate Starts for Trixie_44:
(Start: 228 @31811 has 960 MA's), (362, 31604), (366, 31598), (375, 31583), (384, 31568), (400, 31532), (410, 31505), (424, 31478), (435, 31457), (448, 31427), (490, 31325), (570, 31232), (590, 31184), (595, 31175), (607, 31160), (643, 31094), (707, 30965), (803, 30740), (823, 30689), (835, 30656), (836, 30653), (855, 30587), (871, 30548), (895, 30527), (924, 30452), (929, 30440), (931, 30434), (982, 30326), (1009, 30272), (1013, 30248), (1038, 30191), (1042, 30170), (1066, 30113), (1073, 30101), (1082, 30089),

Gene: Trooper_45 Start: 31579, Stop: 29792, Start Num: 227
Candidate Starts for Trooper_45:
(Start: 227 @31579 has 33 MA's), (362, 31372), (366, 31366), (375, 31351), (384, 31336), (399, 31303), (400, 31300), (410, 31273), (424, 31246), (430, 31237), (490, 31093), (493, 31084), (570, 31000), (590, 30952), (595, 30943), (607, 30928), (643, 30862), (686, 30781), (707, 30733), (709, 30727), (778, 30589), (803, 30508), (835, 30424), (836, 30421), (855, 30355), (871, 30316), (895, 30295), (924, 30220), (929, 30208), (982, 30094), (990, 30082), (992, 30076), (1009, 30040), (1013, 30016), (1038, 29959), (1042, 29938), (1066, 29881), (1073, 29869),

Gene: Trouble_46 Start: 35902, Stop: 34073, Start Num: 228
Candidate Starts for Trouble_46:
(Start: 228 @35902 has 960 MA's), (373, 35674), (410, 35596), (418, 35575), (424, 35569), (430, 35560), (479, 35443), (490, 35416), (570, 35323), (576, 35308), (590, 35275), (621, 35224), (622, 35221), (659, 35155), (680, 35125), (690, 35095), (709, 35050), (729, 35011), (803, 34831), (821, 34783), (840, 34735), (851, 34696), (855, 34678), (871, 34639), (895, 34618), (900, 34597), (905, 34582), (955, 34459), (1018, 34324), (1036, 34288), (1041, 34264), (1062, 34216), (1066, 34204), (1079, 34183), (1083, 34177), (1102, 34129), (1109, 34114),

Gene: Troy_42 Start: 31774, Stop: 33756, Start Num: 172
Candidate Starts for Troy_42:
(81, 31582), (132, 31717), (Start: 172 @31774 has 7 MA's), (Start: 186 @31789 has 1 MA's), (191, 31795), (274, 31909), (321, 31975), (386, 32092), (442, 32242), (495, 32371), (503, 32389), (508, 32407), (565, 32581), (570, 32596), (657, 32674), (675, 32707), (741, 32887), (770, 32956), (809, 33082), (841, 33184), (844, 33193), (849, 33208), (890, 33361), (927, 33457), (934, 33478), (981, 33577), (1013, 33676),

Gene: TroyPia_46 Start: 31568, Stop: 29742, Start Num: 228
Candidate Starts for TroyPia_46:
(Start: 228 @31568 has 960 MA's), (Start: 241 @31547 has 3 MA's), (263, 31517), (278, 31487), (384, 31325), (394, 31307), (424, 31235), (430, 31226), (480, 31106), (490, 31082), (570, 30989), (592, 30941), (607, 30920), (626, 30881), (696, 30749), (707, 30728), (729, 30683), (733, 30671), (798, 30518), (803, 30497), (847, 30374), (855, 30344), (871, 30305), (900, 30239), (901, 30236), (906, 30221), (919, 30197), (929, 30173), (1013, 29966), (1066, 29831), (1073, 29819), (1079, 29810),

Gene: True_59 Start: 54034, Stop: 52175, Start Num: 190
Candidate Starts for True_59:
(Start: 173 @54058 has 3 MA's), (Start: 190 @54034 has 336 MA's), (Start: 222 @54010 has 3 MA's), (Start: 232 @54004 has 2 MA's), (261, 53962), (274, 53941), (336, 53827), (339, 53821), (355, 53791), (390, 53731), (398, 53710), (416, 53656), (429, 53644), (436, 53626), (440, 53614), (487, 53509), (552, 53452), (569, 53416), (573, 53404), (583, 53380), (590, 53368), (601, 53350), (611, 53332), (622, 53314), (643, 53275), (648, 53266), (649, 53263), (651, 53260), (796, 52903), (804, 52870), (812, 52849), (848, 52756), (851, 52747), (877, 52684), (900, 52648), (901, 52645), (906, 52630), (939, 52552), (946, 52540), (953, 52519), (976, 52480), (1013, 52390), (1022, 52372), (1024, 52366), (1032, 52351), (1040, 52327), (1042, 52312), (1043, 52309), (1047, 52297), (1059, 52273), (1082, 52225), (1093, 52201),

Gene: Truong_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for Truong_10:
(83, 8535), (93, 8499), (98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (515, 7680), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (781, 7005), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1037, 6270), (1043, 6243), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: Trypo_63 Start: 54706, Stop: 52847, Start Num: 190
Candidate Starts for Trypo_63:
(Start: 173 @54730 has 3 MA's), (Start: 190 @54706 has 336 MA's), (Start: 222 @54682 has 3 MA's), (Start: 232 @54676 has 2 MA's), (261, 54634), (274, 54613), (336, 54499), (339, 54493), (355, 54463), (390, 54403), (398, 54382), (416, 54328), (429, 54316), (436, 54298), (440, 54286), (487, 54181), (552, 54124), (569, 54088), (573, 54076), (583, 54052), (590, 54040), (601, 54022), (611, 54004),

(622, 53986), (643, 53947), (648, 53938), (649, 53935), (651, 53932), (761, 53677), (796, 53575), (804, 53542), (812, 53521), (848, 53428), (851, 53419), (877, 53356), (900, 53320), (901, 53317), (906, 53302), (939, 53224), (946, 53212), (953, 53191), (976, 53152), (1013, 53062), (1022, 53044), (1024, 53038), (1032, 53023), (1040, 52999), (1042, 52984), (1043, 52981), (1047, 52969), (1059, 52945), (1066, 52924), (1082, 52897), (1093, 52873),

Gene: Tubs_45 Start: 31483, Stop: 29690, Start Num: 228
Candidate Starts for Tubs_45:
(Start: 228 @31483 has 960 MA's), (235, 31474), (263, 31432), (342, 31312), (343, 31309), (370, 31261), (400, 31201), (411, 31171), (415, 31159), (424, 31147), (490, 30994), (570, 30901), (643, 30763), (659, 30733), (733, 30574), (742, 30562), (764, 30535), (798, 30427), (803, 30406), (851, 30271), (855, 30253), (900, 30172), (919, 30130), (949, 30055), (990, 29980), (1009, 29938), (1042, 29836), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: Tuck_44 Start: 31714, Stop: 33579, Start Num: 228
Candidate Starts for Tuck_44:
(Start: 228 @31714 has 960 MA's), (261, 31762), (360, 31918), (410, 32011), (452, 32101), (572, 32308), (622, 32407), (626, 32416), (633, 32431), (643, 32443), (686, 32521), (707, 32569), (733, 32626), (768, 32707), (803, 32827), (815, 32857), (836, 32914), (855, 32980), (898, 33073), (929, 33145), (977, 33253), (1009, 33316), (1066, 33475), (1071, 33484), (1107, 33562),

Gene: Tucker_46 Start: 29792, Stop: 27951, Start Num: 228
Candidate Starts for Tucker_46:
(Start: 200 @29822 has 1 MA's), (Start: 228 @29792 has 960 MA's), (360, 29588), (399, 29513), (400, 29510), (410, 29483), (415, 29468), (424, 29456), (448, 29405), (485, 29315), (490, 29303), (570, 29210), (585, 29171), (595, 29153), (607, 29138), (643, 29072), (660, 29039), (663, 29036), (710, 28934), (742, 28874), (778, 28790), (803, 28709), (835, 28625), (836, 28622), (840, 28613), (847, 28586), (855, 28556), (895, 28496), (906, 28457), (1009, 28241), (1010, 28238), (1013, 28217), (1066, 28082), (1073, 28070), (1079, 28061), (1082, 28058), (1115, 27965),

Gene: TukTuk_43 Start: 29558, Stop: 31432, Start Num: 217
Candidate Starts for TukTuk_43:
(Start: 215 @29555 has 12 MA's), (Start: 217 @29558 has 68 MA's), (Start: 273 @29627 has 1 MA's), (Start: 285 @29648 has 1 MA's), (399, 29828), (430, 29894), (448, 29936), (626, 30230), (696, 30365), (741, 30464), (784, 30587), (803, 30647), (806, 30653), (823, 30698), (833, 30728), (845, 30764), (855, 30800), (898, 30893), (936, 30986), (973, 31064), (1009, 31136), (1018, 31175), (1038, 31217), (1041, 31235), (1066, 31295), (1079, 31316),

Gene: Turab_37 Start: 28808, Stop: 30673, Start Num: 228
Candidate Starts for Turab_37:
(Start: 228 @28808 has 960 MA's), (261, 28856), (360, 29012), (418, 29126), (452, 29195), (572, 29402), (622, 29501), (626, 29510), (633, 29525), (643, 29537), (660, 29570), (707, 29663), (733, 29720), (768, 29801), (803, 29921), (815, 29951), (836, 30008), (853, 30065), (855, 30074), (898, 30167), (929, 30239), (932, 30248), (977, 30347), (1009, 30410), (1058, 30545), (1066, 30569), (1071, 30578), (1107, 30656),

Gene: Turbido_45 Start: 31617, Stop: 29830, Start Num: 228
Candidate Starts for Turbido_45:
(147, 31704), (Start: 228 @31617 has 960 MA's), (362, 31410), (366, 31404), (375, 31389), (384, 31374), (400, 31338), (410, 31311), (424, 31284), (435, 31263), (490, 31131), (570, 31038), (590, 30990), (595, 30981), (607, 30966), (643, 30900), (686, 30819), (707, 30771), (709, 30765), (742, 30702), (803, 30546), (823, 30495), (835, 30462), (836, 30459), (855, 30393), (871, 30354), (895, 30333), (924, 30258), (929, 30246), (949, 30195), (982, 30132), (992, 30114), (1009, 30078), (1013,

30054), (1042, 29976), (1066, 29919), (1073, 29907), (1079, 29898),

Gene: Turj99_42 Start: 33989, Stop: 32163, Start Num: 228
Candidate Starts for Turj99_42:
(Start: 228 @33989 has 960 MA's), (366, 33776), (373, 33761), (410, 33683), (414, 33671), (418, 33662), (424, 33656), (430, 33647), (479, 33530), (490, 33503), (570, 33410), (576, 33395), (590, 33362), (621, 33311), (622, 33308), (654, 33254), (659, 33242), (680, 33212), (690, 33182), (709, 33137), (729, 33098), (803, 32918), (821, 32870), (823, 32867), (836, 32831), (855, 32765), (871, 32726), (895, 32705), (900, 32684), (906, 32666), (935, 32600), (1009, 32450), (1010, 32447), (1018, 32411), (1032, 32387), (1035, 32378), (1039, 32366), (1057, 32318), (1066, 32291), (1079, 32270),

Gene: Tutumahutu_42 Start: 29675, Stop: 31540, Start Num: 228
Candidate Starts for Tutumahutu_42:
(80, 29414), (Start: 162 @29597 has 1 MA's), (Start: 228 @29675 has 960 MA's), (261, 29723), (410, 29972), (452, 30062), (572, 30269), (576, 30278), (622, 30368), (626, 30377), (633, 30392), (660, 30437), (686, 30482), (707, 30530), (733, 30587), (768, 30668), (795, 30755), (803, 30788), (815, 30818), (836, 30875), (855, 30941), (898, 31034), (929, 31106), (977, 31214), (1009, 31277), (1013, 31301), (1058, 31412), (1066, 31436), (1071, 31445),

Gene: Tweety19_41 Start: 28185, Stop: 30029, Start Num: 228
Candidate Starts for Tweety19_41:
(Start: 228 @28185 has 960 MA's), (261, 28233), (303, 28293), (360, 28389), (383, 28416), (400, 28455), (418, 28503), (452, 28572), (572, 28758), (626, 28866), (633, 28881), (702, 29010), (707, 29019), (768, 29157), (803, 29277), (836, 29364), (853, 29421), (855, 29430), (898, 29523), (1009, 29766), (1066, 29925), (1071, 29934), (1107, 30012),

Gene: Twigg_39 Start: 30566, Stop: 28701, Start Num: 228
Candidate Starts for Twigg_39:
(Start: 228 @30566 has 960 MA's), (263, 30515), (304, 30455), (343, 30392), (360, 30362), (362, 30359), (396, 30302), (399, 30290), (410, 30260), (424, 30233), (490, 30080), (570, 29984), (590, 29936), (637, 29852), (643, 29846), (685, 29774), (696, 29741), (703, 29726), (709, 29714), (761, 29615), (803, 29480), (815, 29450), (821, 29432), (830, 29414), (836, 29393), (840, 29384), (855, 29327), (871, 29288), (900, 29246), (906, 29228), (929, 29180), (949, 29129), (977, 29075), (982, 29066), (992, 29048), (1013, 28988), (1022, 28970), (1058, 28877), (1066, 28853), (1073, 28841), (1115, 28736),

Gene: Twister_42 Start: 31053, Stop: 29218, Start Num: 228
Candidate Starts for Twister_42:
(Start: 228 @31053 has 960 MA's), (263, 31002), (307, 30936), (360, 30849), (373, 30825), (396, 30789), (399, 30777), (424, 30720), (430, 30711), (462, 30627), (480, 30591), (485, 30579), (490, 30567), (570, 30474), (592, 30426), (626, 30366), (643, 30339), (694, 30237), (696, 30234), (707, 30213), (709, 30207), (767, 30099), (803, 29976), (821, 29928), (847, 29853), (855, 29823), (869, 29793), (871, 29784), (900, 29715), (901, 29712), (919, 29673), (929, 29649), (931, 29643), (935, 29631), (1013, 29442), (1024, 29418), (1045, 29355), (1066, 29307), (1073, 29295), (1079, 29286),

Gene: TwoBits_37 Start: 27427, Stop: 25562, Start Num: 301
Candidate Starts for TwoBits_37:
(Start: 301 @27427 has 153 MA's), (304, 27421), (349, 27322), (353, 27313), (369, 27289), (378, 27274), (382, 27268), (396, 27241), (402, 27217), (404, 27214), (442, 27133), (455, 27097), (474, 27043), (502, 26983), (533, 26980), (585, 26854), (586, 26851), (590, 26839), (607, 26809), (618, 26788), (636, 26752), (706, 26605), (773, 26437), (777, 26425), (847, 26245), (855, 26215), (889, 26143), (908, 26086), (917, 26059), (933, 26017), (989, 25897), (992, 25888), (1010, 25828), (1013, 25804), (1017, 25792), (1020, 25783), (1028, 25765), (1040, 25732), (1068, 25660),

Gene: TwoPeat_45 Start: 34739, Stop: 32910, Start Num: 228
Candidate Starts for TwoPeat_45:
(Start: 228 @34739 has 960 MA's), (366, 34526), (373, 34511), (399, 34463), (410, 34433), (418, 34412), (424, 34406), (430, 34397), (479, 34280), (490, 34253), (570, 34160), (576, 34145), (583, 34124), (621, 34061), (622, 34058), (659, 33992), (680, 33962), (690, 33932), (709, 33887), (729, 33848), (803, 33668), (821, 33620), (840, 33572), (851, 33533), (855, 33515), (871, 33476), (895, 33455), (900, 33434), (905, 33419), (955, 33296), (1036, 33125), (1041, 33101), (1062, 33053), (1066, 33041), (1079, 33020), (1083, 33014), (1102, 32966), (1109, 32951),

Gene: Tydolla_56 Start: 53884, Stop: 52067, Start Num: 230
Candidate Starts for Tydolla_56:
(46, 54268), (110, 54067), (Start: 230 @53884 has 52 MA's), (249, 53854), (366, 53674), (435, 53521), (439, 53509), (452, 53479), (458, 53473), (487, 53410), (489, 53404), (552, 53353), (566, 53326), (569, 53317), (590, 53269), (649, 53164), (694, 53068), (722, 53017), (775, 52873), (787, 52834), (797, 52804), (804, 52777), (810, 52765), (846, 52669), (848, 52663), (851, 52654), (854, 52642), (883, 52570), (900, 52540), (906, 52522), (912, 52513), (939, 52444), (946, 52432), (953, 52411), (992, 52342), (1002, 52327), (1010, 52303), (1013, 52282), (1022, 52264), (1024, 52258), (1038, 52225), (1040, 52219), (1043, 52201), (1047, 52189), (1054, 52177), (1059, 52165), (1078, 52123), (1093, 52093),

Gene: TygerBlood_45 Start: 31570, Stop: 29744, Start Num: 228
Candidate Starts for TygerBlood_45:
(Start: 228 @31570 has 960 MA's), (Start: 241 @31549 has 3 MA's), (263, 31519), (278, 31489), (384, 31327), (394, 31309), (424, 31237), (430, 31228), (480, 31108), (490, 31084), (570, 30991), (592, 30943), (607, 30922), (626, 30883), (696, 30751), (707, 30730), (729, 30685), (733, 30673), (798, 30520), (803, 30499), (847, 30376), (855, 30346), (871, 30307), (900, 30241), (901, 30238), (906, 30223), (919, 30199), (929, 30175), (1013, 29968), (1066, 29833), (1073, 29821), (1079, 29812),

Gene: TyrionL_61 Start: 54131, Stop: 52272, Start Num: 190
Candidate Starts for TyrionL_61:
(Start: 173 @54155 has 3 MA's), (Start: 190 @54131 has 336 MA's), (Start: 222 @54107 has 3 MA's), (Start: 232 @54101 has 2 MA's), (261, 54059), (274, 54038), (336, 53924), (339, 53918), (355, 53888), (390, 53828), (398, 53807), (416, 53753), (429, 53741), (436, 53723), (440, 53711), (487, 53606), (552, 53549), (569, 53513), (573, 53501), (583, 53477), (590, 53465), (601, 53447), (611, 53429), (622, 53411), (643, 53372), (648, 53363), (649, 53360), (651, 53357), (761, 53102), (796, 53000), (804, 52967), (812, 52946), (848, 52853), (851, 52844), (877, 52781), (900, 52745), (901, 52742), (906, 52727), (939, 52649), (946, 52637), (953, 52616), (976, 52577), (1013, 52487), (1022, 52469), (1024, 52463), (1032, 52448), (1040, 52424), (1042, 52409), (1043, 52406), (1047, 52394), (1059, 52370), (1066, 52349), (1082, 52322), (1093, 52298), (1098, 52283),

Gene: U2_43 Start: 34422, Stop: 32596, Start Num: 228
Candidate Starts for U2_43:
(Start: 228 @34422 has 960 MA's), (366, 34209), (373, 34194), (399, 34146), (410, 34116), (418, 34095), (424, 34089), (430, 34080), (490, 33936), (570, 33843), (576, 33828), (621, 33744), (622, 33741), (659, 33675), (690, 33615), (709, 33570), (729, 33531), (803, 33351), (821, 33303), (836, 33264), (855, 33198), (871, 33159), (895, 33138), (900, 33117), (906, 33099), (935, 33033), (1009, 32883), (1010, 32880), (1018, 32844), (1032, 32820), (1035, 32811), (1039, 32799), (1066, 32724), (1079, 32703),

Gene: UAch1_60 Start: 54265, Stop: 52406, Start Num: 190
Candidate Starts for UAch1_60:

(Start: 173 @54289 has 3 MA's), (Start: 190 @54265 has 336 MA's), (Start: 222 @54241 has 3 MA's), (Start: 232 @54235 has 2 MA's), (261, 54193), (274, 54172), (336, 54058), (339, 54052), (355, 54022), (390, 53962), (398, 53941), (416, 53887), (429, 53875), (436, 53857), (440, 53845), (487, 53740), (552, 53683), (569, 53647), (573, 53635), (583, 53611), (590, 53599), (601, 53581), (611, 53563), (622, 53545), (643, 53506), (648, 53497), (649, 53494), (651, 53491), (796, 53134), (804, 53101), (812, 53080), (848, 52987), (851, 52978), (877, 52915), (900, 52879), (901, 52876), (906, 52861), (939, 52783), (946, 52771), (953, 52750), (976, 52711), (1013, 52621), (1022, 52603), (1024, 52597), (1032, 52582), (1040, 52558), (1042, 52543), (1043, 52540), (1047, 52528), (1059, 52504), (1082, 52456), (1093, 52432),

Gene: Ugenie5_42 Start: 31726, Stop: 29933, Start Num: 228
Candidate Starts for Ugenie5_42:
(Start: 228 @31726 has 960 MA's), (235, 31717), (263, 31675), (342, 31555), (343, 31552), (370, 31504), (400, 31444), (411, 31414), (415, 31402), (424, 31390), (490, 31237), (570, 31144), (643, 31006), (659, 30976), (733, 30817), (742, 30805), (764, 30778), (798, 30670), (803, 30649), (851, 30514), (855, 30496), (900, 30415), (919, 30373), (949, 30298), (955, 30277), (990, 30223), (1009, 30181), (1042, 30079), (1066, 30022), (1073, 30010), (1079, 30001),

Gene: UhSalsa_36 Start: 28114, Stop: 26330, Start Num: 228
Candidate Starts for UhSalsa_36:
(Start: 228 @28114 has 960 MA's), (379, 27880), (396, 27850), (398, 27841), (399, 27838), (415, 27793), (424, 27781), (448, 27730), (490, 27628), (498, 27607), (570, 27535), (587, 27490), (590, 27487), (617, 27445), (619, 27439), (626, 27424), (643, 27397), (696, 27292), (701, 27283), (709, 27265), (729, 27226), (767, 27169), (803, 27046), (821, 26998), (855, 26893), (856, 26890), (895, 26833), (900, 26812), (922, 26764), (951, 26689), (990, 26620), (1009, 26578), (1013, 26554), (1042, 26476), (1066, 26419), (1073, 26407), (1079, 26398), (1094, 26368), (1100, 26350),

Gene: Ulysses_44 Start: 31247, Stop: 29421, Start Num: 228
Candidate Starts for Ulysses_44:
(Start: 228 @31247 has 960 MA's), (Start: 241 @31226 has 3 MA's), (263, 31196), (278, 31166), (384, 31004), (394, 30986), (424, 30914), (430, 30905), (480, 30785), (490, 30761), (570, 30668), (592, 30620), (607, 30599), (626, 30560), (654, 30515), (657, 30509), (696, 30428), (707, 30407), (729, 30362), (733, 30350), (798, 30197), (803, 30176), (847, 30053), (855, 30023), (871, 29984), (900, 29918), (901, 29915), (906, 29900), (919, 29876), (929, 29852), (1013, 29645), (1066, 29510), (1073, 29498), (1079, 29489),

Gene: UncleHowie_59 Start: 53736, Stop: 51877, Start Num: 190
Candidate Starts for UncleHowie_59:
(Start: 173 @53760 has 3 MA's), (Start: 190 @53736 has 336 MA's), (Start: 222 @53712 has 3 MA's), (Start: 232 @53706 has 2 MA's), (261, 53664), (274, 53643), (336, 53529), (339, 53523), (355, 53493), (390, 53433), (398, 53412), (416, 53358), (429, 53346), (436, 53328), (440, 53316), (487, 53211), (552, 53154), (569, 53118), (573, 53106), (585, 53079), (601, 53052), (611, 53034), (622, 53016), (643, 52977), (648, 52968), (649, 52965), (651, 52962), (796, 52605), (804, 52572), (812, 52551), (848, 52458), (851, 52449), (877, 52386), (900, 52350), (901, 52347), (906, 52332), (939, 52254), (946, 52242), (953, 52221), (976, 52182), (1013, 52092), (1022, 52074), (1024, 52068), (1032, 52053), (1040, 52029), (1042, 52014), (1043, 52011), (1047, 51999), (1059, 51975), (1082, 51927), (1093, 51903),

Gene: UnionJack_39 Start: 29889, Stop: 28024, Start Num: 228
Candidate Starts for UnionJack_39:
(Start: 228 @29889 has 960 MA's), (304, 29778), (360, 29685), (362, 29682), (399, 29613), (410, 29583), (424, 29556), (430, 29547), (465, 29454), (473, 29439), (490, 29403), (570, 29307), (587, 29262), (590, 29259), (607, 29235), (637, 29175), (685, 29097), (696, 29064), (703, 29049), (709,

29037), (761, 28938), (803, 28803), (815, 28773), (821, 28755), (823, 28752), (836, 28716), (840, 28707), (845, 28686), (848, 28677), (855, 28650), (856, 28647), (895, 28590), (900, 28569), (929, 28503), (949, 28452), (977, 28398), (982, 28389), (992, 28371), (1013, 28311), (1022, 28293), (1058, 28200), (1066, 28176), (1073, 28164), (1115, 28059),

Gene: Unphazed_10 Start: 8664, Stop: 6421, Start Num: 163
Candidate Starts for Unphazed_10:
(Start: 163 @8664 has 29 MA's), (247, 8550), (257, 8544), (Start: 285 @8499 has 1 MA's), (323, 8421), (395, 8277), (451, 8124), (508, 7977), (511, 7956), (515, 7941), (526, 7881), (556, 7800), (571, 7761), (645, 7656), (681, 7590), (714, 7503), (753, 7419), (773, 7362), (778, 7344), (802, 7263), (841, 7149), (844, 7137), (857, 7089), (877, 7011), (879, 7002), (910, 6912), (923, 6888), (935, 6858), (970, 6777), (1019, 6639), (1033, 6603), (1035, 6594), (1053, 6546), (1066, 6507), (1073, 6495),

Gene: Updawg_45 Start: 31601, Stop: 29814, Start Num: 228
Candidate Starts for Updawg_45:
(Start: 228 @31601 has 960 MA's), (360, 31397), (362, 31394), (366, 31388), (384, 31358), (399, 31325), (400, 31322), (410, 31295), (424, 31268), (448, 31217), (490, 31115), (570, 31022), (590, 30974), (595, 30965), (607, 30950), (643, 30884), (686, 30803), (707, 30755), (778, 30611), (803, 30530), (823, 30479), (835, 30446), (855, 30377), (871, 30338), (895, 30317), (900, 30296), (904, 30284), (990, 30104), (992, 30098), (1009, 30062), (1013, 30038), (1042, 29960), (1066, 29903), (1073, 29891),

Gene: Upyo_46 Start: 36456, Stop: 34090, Start Num: 16
Candidate Starts for Upyo_46:
(3, 36705), (6, 36570), (8, 36546), (9, 36540), (10, 36528), (12, 36480), (Start: 16 @36456 has 1 MA's), (27, 36330), (36, 36273), (47, 36219), (59, 36183), (88, 36114), (90, 36108), (141, 36009), (315, 35775), (329, 35748), (394, 35640), (416, 35574), (430, 35559), (447, 35523), (487, 35439), (490, 35430), (552, 35382), (569, 35346), (573, 35334), (599, 35280), (617, 35250), (627, 35232), (632, 35223), (649, 35193), (688, 35115), (722, 35043), (783, 34869), (787, 34860), (796, 34836), (804, 34803), (831, 34746), (840, 34722), (848, 34692), (854, 34671), (897, 34593), (906, 34566), (934, 34503), (939, 34488), (946, 34476), (953, 34455), (1001, 34356), (1013, 34308), (1018, 34293), (1024, 34284), (1042, 34230), (1043, 34227), (1059, 34191), (1082, 34140), (1093, 34116),

Gene: Usavi_60 Start: 54404, Stop: 52545, Start Num: 190
Candidate Starts for Usavi_60:
(Start: 173 @54428 has 3 MA's), (Start: 190 @54404 has 336 MA's), (Start: 222 @54380 has 3 MA's), (Start: 232 @54374 has 2 MA's), (261, 54332), (274, 54311), (336, 54197), (339, 54191), (355, 54161), (390, 54101), (398, 54080), (416, 54026), (429, 54014), (436, 53996), (440, 53984), (487, 53879), (552, 53822), (569, 53786), (573, 53774), (585, 53747), (601, 53720), (611, 53702), (622, 53684), (643, 53645), (648, 53636), (649, 53633), (761, 53375), (796, 53273), (804, 53240), (812, 53219), (848, 53126), (851, 53117), (877, 53054), (900, 53018), (901, 53015), (906, 53000), (939, 52922), (946, 52910), (953, 52889), (976, 52850), (1013, 52760), (1022, 52742), (1024, 52736), (1032, 52721), (1040, 52697), (1042, 52682), (1043, 52679), (1047, 52667), (1059, 52643), (1082, 52595), (1093, 52571),

Gene: UtzChips_47 Start: 31134, Stop: 32999, Start Num: 228
Candidate Starts for UtzChips_47:
(126, 31014), (136, 31032), (Start: 228 @31134 has 960 MA's), (303, 31242), (623, 31830), (626, 31836), (707, 31989), (736, 32052), (803, 32247), (828, 32310), (845, 32364), (847, 32370), (856, 32403), (936, 32586), (1066, 32895), (1104, 32973), (1112, 32994),

Gene: VA6_43 Start: 31120, Stop: 29333, Start Num: 228
Candidate Starts for VA6_43:

(Start: 228 @31120 has 960 MA's), (360, 30916), (362, 30913), (366, 30907), (375, 30892), (384, 30877), (399, 30844), (400, 30841), (410, 30814), (424, 30787), (435, 30766), (448, 30736), (490, 30634), (570, 30541), (573, 30532), (590, 30493), (595, 30484), (607, 30469), (643, 30403), (686, 30322), (707, 30274), (709, 30268), (778, 30130), (803, 30049), (823, 29998), (835, 29965), (836, 29962), (855, 29896), (871, 29857), (895, 29836), (924, 29761), (931, 29743), (949, 29698), (958, 29671), (982, 29635), (992, 29617), (1009, 29581), (1013, 29557), (1038, 29500), (1066, 29422), (1073, 29410), (1079, 29401),

Gene: VC3_48 Start: 31569, Stop: 29770, Start Num: 228
Candidate Starts for VC3_48:
(Start: 228 @31569 has 960 MA's), (360, 31365), (399, 31290), (400, 31287), (410, 31260), (415, 31245), (424, 31233), (448, 31182), (490, 31080), (570, 30987), (573, 30978), (590, 30939), (595, 30930), (643, 30849), (660, 30816), (680, 30789), (729, 30675), (742, 30651), (803, 30486), (821, 30438), (836, 30399), (847, 30363), (855, 30333), (871, 30294), (895, 30273), (935, 30168), (949, 30135), (982, 30072), (1009, 30018), (1013, 29994), (1066, 29859), (1073, 29847), (1079, 29838),

Gene: VResidence_41 Start: 29109, Stop: 31019, Start Num: 228
Candidate Starts for VResidence_41:
(Start: 228 @29109 has 960 MA's), (261, 29157), (343, 29283), (383, 29340), (418, 29427), (452, 29496), (572, 29748), (576, 29757), (626, 29856), (633, 29871), (707, 30009), (768, 30147), (778, 30186), (803, 30267), (836, 30354), (847, 30390), (853, 30411), (855, 30420), (929, 30585), (932, 30594), (1009, 30756), (1022, 30798), (1036, 30831), (1066, 30915), (1071, 30924), (1107, 31002),

Gene: Vafari_38 Start: 26998, Stop: 25133, Start Num: 301
Candidate Starts for Vafari_38:
(Start: 301 @26998 has 153 MA's), (304, 26992), (349, 26893), (353, 26884), (369, 26860), (378, 26845), (382, 26839), (402, 26788), (404, 26785), (442, 26704), (463, 26644), (502, 26554), (533, 26551), (574, 26452), (585, 26425), (586, 26422), (590, 26410), (607, 26380), (618, 26359), (636, 26323), (706, 26176), (777, 25996), (847, 25816), (855, 25786), (878, 25732), (889, 25714), (908, 25657), (917, 25630), (933, 25588), (949, 25549), (989, 25468), (992, 25459), (1010, 25399), (1013, 25375), (1017, 25363), (1020, 25354), (1028, 25336), (1040, 25303), (1068, 25231),

Gene: Vaishali24_59 Start: 53939, Stop: 52080, Start Num: 190
Candidate Starts for Vaishali24_59:
(33, 54335), (54, 54248), (57, 54233), (60, 54227), (65, 54212), (70, 54194), (Start: 173 @53963 has 3 MA's), (Start: 190 @53939 has 336 MA's), (Start: 222 @53915 has 3 MA's), (Start: 232 @53909 has 2 MA's), (261, 53867), (274, 53846), (336, 53732), (339, 53726), (355, 53696), (390, 53636), (398, 53615), (416, 53561), (429, 53549), (440, 53519), (487, 53414), (552, 53357), (569, 53321), (573, 53309), (585, 53282), (590, 53273), (611, 53237), (622, 53219), (643, 53180), (648, 53171), (649, 53168), (796, 52808), (804, 52775), (812, 52754), (848, 52661), (851, 52652), (877, 52589), (900, 52553), (901, 52550), (906, 52535), (939, 52457), (946, 52445), (953, 52424), (976, 52385), (1013, 52295), (1022, 52277), (1024, 52271), (1032, 52256), (1040, 52232), (1042, 52217), (1043, 52214), (1047, 52202), (1059, 52178), (1082, 52130), (1093, 52106),

Gene: Valjean_60 Start: 54261, Stop: 52402, Start Num: 190
Candidate Starts for Valjean_60:
(Start: 173 @54285 has 3 MA's), (Start: 190 @54261 has 336 MA's), (Start: 222 @54237 has 3 MA's), (Start: 232 @54231 has 2 MA's), (261, 54189), (274, 54168), (336, 54054), (339, 54048), (355, 54018), (390, 53958), (398, 53937), (416, 53883), (429, 53871), (436, 53853), (440, 53841), (487, 53736), (552, 53679), (569, 53643), (573, 53631), (583, 53607), (590, 53595), (601, 53577), (611, 53559), (622, 53541), (643, 53502), (648, 53493), (649, 53490), (651, 53487), (796, 53130), (804, 53097), (812, 53076), (848, 52983), (851, 52974), (877, 52911), (900, 52875), (901, 52872), (906, 52857), (939, 52779), (946, 52767), (953, 52746), (976, 52707), (1013, 52617), (1022, 52599), (1024, 52593),

(1032, 52578), (1040, 52554), (1042, 52539), (1043, 52536), (1047, 52524), (1059, 52500), (1082, 52452), (1093, 52428),

Gene: Vanisoa_44 Start: 32049, Stop: 30256, Start Num: 228
Candidate Starts for Vanisoa_44:
(Start: 228 @32049 has 960 MA's), (235, 32040), (263, 31998), (342, 31878), (343, 31875), (360, 31845), (370, 31827), (399, 31770), (400, 31767), (411, 31737), (415, 31725), (424, 31713), (430, 31704), (448, 31662), (454, 31644), (489, 31563), (490, 31560), (570, 31467), (659, 31299), (704, 31203), (733, 31140), (764, 31101), (767, 31095), (803, 30972), (815, 30942), (830, 30906), (840, 30876), (855, 30819), (900, 30738), (949, 30621), (1009, 30504), (1013, 30480), (1042, 30402), (1066, 30345), (1073, 30333), (1079, 30324),

Gene: Vash_34 Start: 26753, Stop: 28627, Start Num: 228
Candidate Starts for Vash_34:
(Start: 228 @26753 has 960 MA's), (278, 26834), (360, 26954), (410, 27056), (411, 27059), (418, 27077), (430, 27092), (606, 27401), (621, 27431), (626, 27443), (635, 27461), (658, 27497), (696, 27575), (702, 27587), (707, 27596), (733, 27653), (735, 27656), (736, 27659), (789, 27803), (803, 27854), (821, 27905), (845, 27977), (847, 27983), (848, 27986), (853, 28004), (855, 28013), (870, 28079), (897, 28133), (945, 28247), (975, 28310), (977, 28316), (981, 28322), (1002, 28358), (1007, 28370), (1018, 28418), (1024, 28427), (1036, 28454), (1042, 28481), (1066, 28538), (1069, 28544), (1079, 28559), (1083, 28565),

Gene: Vaticameos_57 Start: 52569, Stop: 50710, Start Num: 190
Candidate Starts for Vaticameos_57:
(Start: 173 @52593 has 3 MA's), (Start: 190 @52569 has 336 MA's), (Start: 222 @52545 has 3 MA's), (Start: 232 @52539 has 2 MA's), (261, 52497), (274, 52476), (336, 52362), (339, 52356), (355, 52326), (390, 52266), (398, 52245), (416, 52191), (429, 52179), (436, 52161), (440, 52149), (487, 52044), (552, 51987), (569, 51951), (573, 51939), (585, 51912), (601, 51885), (611, 51867), (622, 51849), (643, 51810), (648, 51801), (649, 51798), (761, 51540), (796, 51438), (804, 51405), (812, 51384), (848, 51291), (851, 51282), (877, 51219), (900, 51183), (901, 51180), (906, 51165), (939, 51087), (946, 51075), (953, 51054), (976, 51015), (1013, 50925), (1022, 50907), (1024, 50901), (1032, 50886), (1040, 50862), (1042, 50847), (1043, 50844), (1047, 50832), (1059, 50808), (1082, 50760), (1093, 50736),

Gene: Vectra_62 Start: 54387, Stop: 52528, Start Num: 190
Candidate Starts for Vectra_62:
(Start: 173 @54411 has 3 MA's), (Start: 190 @54387 has 336 MA's), (Start: 222 @54363 has 3 MA's), (Start: 232 @54357 has 2 MA's), (261, 54315), (274, 54294), (336, 54180), (339, 54174), (355, 54144), (390, 54084), (398, 54063), (416, 54009), (429, 53997), (436, 53979), (440, 53967), (487, 53862), (552, 53805), (569, 53769), (573, 53757), (583, 53733), (590, 53721), (601, 53703), (611, 53685), (622, 53667), (643, 53628), (648, 53619), (649, 53616), (651, 53613), (796, 53256), (804, 53223), (812, 53202), (848, 53109), (851, 53100), (877, 53037), (900, 53001), (901, 52998), (906, 52983), (939, 52905), (946, 52893), (953, 52872), (976, 52833), (1013, 52743), (1022, 52725), (1024, 52719), (1032, 52704), (1040, 52680), (1042, 52665), (1043, 52662), (1047, 52650), (1059, 52626), (1066, 52605), (1082, 52578), (1093, 52554), (1098, 52539),

Gene: Velene_39 Start: 28935, Stop: 27070, Start Num: 301
Candidate Starts for Velene_39:
(Start: 241 @29022 has 3 MA's), (Start: 243 @29019 has 1 MA's), (288, 28950), (Start: 301 @28935 has 153 MA's), (Start: 305 @28926 has 5 MA's), (353, 28821), (360, 28812), (378, 28782), (380, 28779), (435, 28659), (439, 28647), (442, 28641), (483, 28536), (494, 28509), (582, 28368), (586, 28359), (590, 28347), (606, 28320), (607, 28317), (614, 28302), (618, 28296), (621, 28290), (638, 28257), (726, 28068), (847, 27753), (850, 27744), (851, 27741), (855, 27723), (873, 27681), (877,

27675), (888, 27651), (908, 27594), (974, 27435), (989, 27405), (992, 27396), (1010, 27336), (1013, 27312), (1028, 27273), (1040, 27240), (1044, 27228), (1068, 27168),

Gene: Veracruz_43 Start: 31597, Stop: 29759, Start Num: 228
Candidate Starts for Veracruz_43:
(Start: 228 @31597 has 960 MA's), (263, 31546), (360, 31393), (399, 31321), (410, 31291), (424, 31264), (430, 31255), (490, 31111), (570, 31015), (592, 30967), (626, 30907), (681, 30820), (696, 30775), (707, 30754), (744, 30682), (767, 30640), (778, 30598), (803, 30517), (821, 30469), (836, 30430), (847, 30394), (855, 30364), (869, 30334), (901, 30253), (919, 30214), (929, 30190), (935, 30172), (936, 30169), (992, 30043), (1013, 29983), (1045, 29896), (1066, 29848), (1073, 29836), (1079, 29827),

Gene: Veritas_62 Start: 54399, Stop: 52540, Start Num: 190
Candidate Starts for Veritas_62:
(Start: 173 @54423 has 3 MA's), (Start: 190 @54399 has 336 MA's), (Start: 222 @54375 has 3 MA's), (Start: 232 @54369 has 2 MA's), (261, 54327), (274, 54306), (336, 54192), (339, 54186), (355, 54156), (390, 54096), (398, 54075), (416, 54021), (429, 54009), (436, 53991), (440, 53979), (487, 53874), (552, 53817), (569, 53781), (573, 53769), (585, 53742), (611, 53697), (643, 53640), (648, 53631), (649, 53628), (796, 53268), (804, 53235), (812, 53214), (848, 53121), (851, 53112), (877, 53049), (900, 53013), (901, 53010), (906, 52995), (939, 52917), (946, 52905), (953, 52884), (976, 52845), (1013, 52755), (1022, 52737), (1024, 52731), (1032, 52716), (1040, 52692), (1042, 52677), (1043, 52674), (1047, 52662), (1059, 52638), (1082, 52590), (1093, 52566), (1098, 52551),

Gene: Vic9_00057 Start: 53336, Stop: 51507, Start Num: 190
Candidate Starts for Vic9_00057:
(Start: 190 @53336 has 336 MA's), (Start: 232 @53309 has 2 MA's), (Start: 255 @53279 has 8 MA's), (261, 53267), (Start: 276 @53240 has 2 MA's), (278, 53237), (284, 53228), (307, 53210), (362, 53114), (390, 53063), (399, 53039), (467, 52877), (476, 52862), (482, 52853), (487, 52841), (552, 52784), (569, 52748), (573, 52736), (583, 52712), (627, 52634), (630, 52628), (635, 52619), (648, 52598), (649, 52595), (664, 52565), (727, 52421), (755, 52355), (775, 52304), (780, 52283), (787, 52265), (804, 52208), (831, 52151), (840, 52124), (848, 52094), (851, 52085), (875, 52019), (897, 51992), (900, 51983), (906, 51965), (919, 51941), (939, 51887), (946, 51875), (953, 51854), (992, 51785), (1013, 51725), (1022, 51707), (1036, 51674), (1040, 51662), (1042, 51647), (1043, 51644), (1047, 51632), (1059, 51608), (1060, 51605), (1082, 51557), (1083, 51554), (1093, 51533), (1100, 51512),

Gene: Vincenzo_56 Start: 55146, Stop: 53320, Start Num: 182
Candidate Starts for Vincenzo_56:
(Start: 182 @55146 has 33 MA's), (Start: 217 @55128 has 68 MA's), (261, 55077), (274, 55056), (355, 54918), (386, 54864), (406, 54810), (436, 54756), (449, 54726), (457, 54714), (458, 54711), (552, 54591), (569, 54555), (573, 54543), (585, 54516), (643, 54414), (649, 54402), (668, 54366), (685, 54336), (696, 54303), (722, 54255), (797, 54042), (804, 54015), (846, 53907), (848, 53901), (851, 53892), (854, 53880), (875, 53829), (897, 53802), (900, 53793), (901, 53790), (902, 53787), (906, 53775), (939, 53697), (946, 53685), (953, 53664), (955, 53655), (960, 53646), (1013, 53535), (1022, 53517), (1024, 53511), (1040, 53472), (1042, 53457), (1047, 53442), (1054, 53430), (1059, 53418), (1082, 53370), (1093, 53346),

Gene: Violet_42 Start: 34578, Stop: 32752, Start Num: 228
Candidate Starts for Violet_42:
(Start: 228 @34578 has 960 MA's), (366, 34365), (399, 34302), (410, 34272), (418, 34251), (424, 34245), (430, 34236), (479, 34119), (490, 34092), (570, 33999), (576, 33984), (621, 33900), (622, 33897), (659, 33831), (690, 33771), (709, 33726), (729, 33687), (803, 33507), (821, 33459), (836, 33420), (855, 33354), (869, 33324), (871, 33315), (895, 33294), (900, 33273), (906, 33255), (935, 33189), (1009, 33039), (1010, 33036), (1018, 33000), (1032, 32976), (1035, 32967), (1039, 32955),

(1066, 32880), (1079, 32859),

Gene: VioletZ_55 Start: 54089, Stop: 52266, Start Num: 182
Candidate Starts for VioletZ_55:
(Start: 163 @54107 has 29 MA's), (Start: 182 @54089 has 33 MA's), (Start: 232 @54065 has 2 MA's), (249, 54038), (261, 54023), (274, 54002), (324, 53915), (386, 53810), (398, 53783), (402, 53768), (436, 53702), (449, 53672), (452, 53663), (457, 53660), (458, 53657), (467, 53630), (552, 53537), (560, 53519), (569, 53501), (573, 53489), (585, 53462), (622, 53399), (648, 53351), (649, 53348), (664, 53318), (685, 53282), (775, 53057), (776, 53054), (787, 53018), (796, 52994), (804, 52961), (846, 52853), (848, 52847), (851, 52838), (900, 52739), (901, 52736), (906, 52721), (939, 52643), (946, 52631), (953, 52610), (955, 52601), (976, 52571), (992, 52541), (1007, 52514), (1013, 52481), (1024, 52457), (1040, 52418), (1043, 52400), (1047, 52388), (1059, 52364), (1078, 52322), (1082, 52316), (1093, 52292),

Gene: Virapocalypse_61 Start: 54360, Stop: 52501, Start Num: 190
Candidate Starts for Virapocalypse_61:
(Start: 173 @54384 has 3 MA's), (Start: 190 @54360 has 336 MA's), (Start: 222 @54336 has 3 MA's), (Start: 232 @54330 has 2 MA's), (261, 54288), (274, 54267), (336, 54153), (339, 54147), (355, 54117), (390, 54057), (398, 54036), (416, 53982), (429, 53970), (436, 53952), (440, 53940), (487, 53835), (552, 53778), (569, 53742), (573, 53730), (583, 53706), (590, 53694), (601, 53676), (611, 53658), (622, 53640), (643, 53601), (648, 53592), (649, 53589), (651, 53586), (796, 53229), (804, 53196), (812, 53175), (848, 53082), (851, 53073), (877, 53010), (900, 52974), (901, 52971), (906, 52956), (939, 52878), (946, 52866), (953, 52845), (976, 52806), (1013, 52716), (1022, 52698), (1024, 52692), (1032, 52677), (1040, 52653), (1042, 52638), (1043, 52635), (1047, 52623), (1059, 52599), (1082, 52551), (1093, 52527),

Gene: Virgeve_60 Start: 53997, Stop: 52138, Start Num: 190
Candidate Starts for Virgeve_60:
(Start: 173 @54021 has 3 MA's), (Start: 190 @53997 has 336 MA's), (Start: 222 @53973 has 3 MA's), (Start: 232 @53967 has 2 MA's), (261, 53925), (274, 53904), (336, 53790), (339, 53784), (355, 53754), (390, 53694), (398, 53673), (416, 53619), (429, 53607), (436, 53589), (440, 53577), (487, 53472), (552, 53415), (569, 53379), (573, 53367), (583, 53343), (590, 53331), (601, 53313), (611, 53295), (622, 53277), (643, 53238), (648, 53229), (649, 53226), (651, 53223), (796, 52866), (804, 52833), (812, 52812), (848, 52719), (851, 52710), (877, 52647), (900, 52611), (901, 52608), (906, 52593), (939, 52515), (946, 52503), (953, 52482), (976, 52443), (1013, 52353), (1022, 52335), (1024, 52329), (1032, 52314), (1040, 52290), (1042, 52275), (1043, 52272), (1047, 52260), (1059, 52236), (1082, 52188), (1093, 52164),

Gene: Vispistious_39 Start: 28937, Stop: 27072, Start Num: 301
Candidate Starts for Vispistious_39:
(Start: 241 @29024 has 3 MA's), (Start: 243 @29021 has 1 MA's), (Start: 301 @28937 has 153 MA's), (Start: 305 @28928 has 5 MA's), (353, 28823), (360, 28814), (378, 28784), (380, 28781), (435, 28661), (439, 28649), (442, 28643), (483, 28538), (494, 28511), (582, 28370), (585, 28364), (586, 28361), (590, 28349), (606, 28322), (607, 28319), (614, 28304), (618, 28298), (621, 28292), (638, 28259), (701, 28130), (726, 28070), (758, 27995), (847, 27755), (850, 27746), (851, 27743), (855, 27725), (873, 27683), (877, 27677), (879, 27668), (888, 27653), (908, 27596), (974, 27437), (989, 27407), (992, 27398), (1010, 27338), (1013, 27314), (1028, 27275), (1040, 27242), (1044, 27230), (1068, 27170),

Gene: Vista_60 Start: 54037, Stop: 52178, Start Num: 190
Candidate Starts for Vista_60:
(Start: 173 @54061 has 3 MA's), (Start: 190 @54037 has 336 MA's), (Start: 222 @54013 has 3 MA's), (Start: 232 @54007 has 2 MA's), (261, 53965), (274, 53944), (336, 53830), (339, 53824), (355, 53794),

(390, 53734), (398, 53713), (416, 53659), (429, 53647), (436, 53629), (440, 53617), (487, 53512), (552, 53455), (569, 53419), (573, 53407), (585, 53380), (601, 53353), (611, 53335), (622, 53317), (643, 53278), (648, 53269), (649, 53266), (796, 52906), (804, 52873), (812, 52852), (848, 52759), (851, 52750), (877, 52687), (900, 52651), (901, 52648), (906, 52633), (939, 52555), (946, 52543), (953, 52522), (976, 52483), (1013, 52393), (1022, 52375), (1024, 52369), (1032, 52354), (1040, 52330), (1042, 52315), (1043, 52312), (1047, 52300), (1059, 52276), (1082, 52228), (1093, 52204),

Gene: Vitas_40 Start: 27434, Stop: 29302, Start Num: 215
Candidate Starts for Vitas_40:
(Start: 215 @27434 has 12 MA's), (Start: 217 @27437 has 68 MA's), (220, 27440), (Start: 273 @27509 has 1 MA's), (436, 27791), (448, 27818), (473, 27872), (585, 28037), (626, 28112), (637, 28133), (784, 28487), (803, 28547), (823, 28598), (845, 28664), (855, 28700), (898, 28793), (973, 28964), (1009, 29036), (1038, 29117), (1065, 29192), (1066, 29195), (1079, 29216), (1108, 29285),

Gene: Vivaldi_62 Start: 54495, Stop: 52636, Start Num: 190
Candidate Starts for Vivaldi_62:
(Start: 173 @54519 has 3 MA's), (Start: 190 @54495 has 336 MA's), (Start: 222 @54471 has 3 MA's), (Start: 232 @54465 has 2 MA's), (261, 54423), (274, 54402), (336, 54288), (339, 54282), (355, 54252), (390, 54192), (398, 54171), (416, 54117), (429, 54105), (436, 54087), (440, 54075), (487, 53970), (552, 53913), (569, 53877), (573, 53865), (583, 53841), (590, 53829), (601, 53811), (611, 53793), (622, 53775), (643, 53736), (648, 53727), (649, 53724), (651, 53721), (796, 53364), (804, 53331), (812, 53310), (848, 53217), (851, 53208), (877, 53145), (900, 53109), (901, 53106), (906, 53091), (939, 53013), (946, 53001), (953, 52980), (976, 52941), (1013, 52851), (1022, 52833), (1024, 52827), (1032, 52812), (1040, 52788), (1042, 52773), (1043, 52770), (1047, 52758), (1059, 52734), (1082, 52686), (1093, 52662),

Gene: Vix_48 Start: 31935, Stop: 30121, Start Num: 228
Candidate Starts for Vix_48:
(Start: 228 @31935 has 960 MA's), (257, 31896), (263, 31884), (360, 31731), (369, 31716), (399, 31659), (424, 31602), (430, 31593), (448, 31551), (465, 31500), (490, 31449), (570, 31356), (590, 31308), (595, 31299), (607, 31284), (626, 31245), (643, 31218), (659, 31188), (703, 31095), (732, 31035), (742, 31020), (803, 30864), (836, 30777), (855, 30711), (871, 30672), (901, 30600), (919, 30561), (929, 30537), (935, 30519), (949, 30486), (958, 30459), (992, 30405), (1013, 30345), (1042, 30267), (1066, 30210), (1073, 30198), (1079, 30189),

Gene: VohminGhazi_45 Start: 29628, Stop: 27787, Start Num: 228
Candidate Starts for VohminGhazi_45:
(Start: 228 @29628 has 960 MA's), (360, 29424), (399, 29349), (400, 29346), (410, 29319), (415, 29304), (424, 29292), (448, 29241), (485, 29151), (490, 29139), (570, 29046), (585, 29007), (595, 28989), (607, 28974), (643, 28908), (660, 28875), (663, 28872), (710, 28770), (742, 28710), (778, 28626), (803, 28545), (835, 28461), (836, 28458), (840, 28449), (847, 28422), (855, 28392), (895, 28332), (906, 28293), (1009, 28077), (1010, 28074), (1013, 28053), (1066, 27918), (1073, 27906), (1079, 27897), (1082, 27894), (1115, 27801),

Gene: Vortex_60 Start: 54019, Stop: 52160, Start Num: 190
Candidate Starts for Vortex_60:
(Start: 173 @54043 has 3 MA's), (Start: 190 @54019 has 336 MA's), (Start: 222 @53995 has 3 MA's), (Start: 232 @53989 has 2 MA's), (261, 53947), (274, 53926), (336, 53812), (339, 53806), (355, 53776), (390, 53716), (398, 53695), (416, 53641), (429, 53629), (436, 53611), (440, 53599), (487, 53494), (552, 53437), (569, 53401), (573, 53389), (585, 53362), (611, 53317), (643, 53260), (648, 53251), (649, 53248), (796, 52888), (804, 52855), (812, 52834), (848, 52741), (851, 52732), (877, 52669), (900, 52633), (901, 52630), (906, 52615), (939, 52537), (946, 52525), (953, 52504), (976, 52465), (1013, 52375), (1022, 52357), (1024, 52351), (1032, 52336), (1040, 52312), (1042, 52297), (1043,

52294), (1047, 52282), (1059, 52258), (1082, 52210), (1093, 52186),

Gene: VroomVroom_45 Start: 30595, Stop: 32457, Start Num: 228
Candidate Starts for VroomVroom_45:
(Start: 228 @30595 has 960 MA's), (261, 30643), (399, 30862), (442, 30958), (565, 31165), (626, 31294), (660, 31354), (686, 31399), (707, 31447), (745, 31531), (803, 31705), (815, 31735), (845, 31822), (847, 31828), (898, 31951), (901, 31960), (945, 32062), (1013, 32218), (1024, 32242), (1066, 32353),

Gene: WaddleDee_86 Start: 73470, Stop: 75263, Start Num: 238
Candidate Starts for WaddleDee_86:
(Start: 238 @73470 has 11 MA's), (261, 73503), (Start: 273 @73524 has 1 MA's), (Start: 276 @73533 has 2 MA's), (Start: 285 @73545 has 1 MA's), (429, 73782), (439, 73809), (442, 73815), (544, 73950), (613, 74067), (626, 74094), (629, 74100), (633, 74109), (666, 74163), (729, 74295), (737, 74316), (755, 74343), (774, 74391), (783, 74424), (798, 74463), (803, 74484), (806, 74490), (845, 74607), (870, 74691), (871, 74694), (898, 74757), (902, 74769), (919, 74805), (932, 74838), (953, 74892), (960, 74910), (1002, 74994), (1009, 75015), (1014, 75042), (1036, 75090), (1038, 75096), (1041, 75114), (1045, 75126), (1049, 75138), (1053, 75141), (1066, 75174), (1083, 75201), (1094, 75225),

Gene: Waits_47 Start: 29831, Stop: 28041, Start Num: 228
Candidate Starts for Waits_47:
(Start: 228 @29831 has 960 MA's), (399, 29552), (400, 29549), (410, 29522), (424, 29495), (448, 29444), (490, 29342), (570, 29249), (585, 29210), (595, 29192), (696, 29003), (729, 28937), (768, 28877), (778, 28838), (796, 28787), (798, 28778), (803, 28757), (823, 28706), (835, 28673), (845, 28640), (847, 28634), (855, 28604), (895, 28544), (900, 28523), (919, 28481), (930, 28454), (977, 28352), (1009, 28289), (1010, 28286), (1066, 28130), (1073, 28118), (1082, 28106),

Gene: Waleliano_53 Start: 54042, Stop: 52219, Start Num: 182
Candidate Starts for Waleliano_53:
(Start: 163 @54060 has 29 MA's), (Start: 182 @54042 has 33 MA's), (Start: 232 @54018 has 2 MA's), (249, 53991), (261, 53976), (274, 53955), (324, 53868), (386, 53763), (398, 53736), (402, 53721), (436, 53655), (449, 53625), (452, 53616), (457, 53613), (458, 53610), (467, 53583), (552, 53490), (560, 53472), (569, 53454), (573, 53442), (585, 53415), (622, 53352), (643, 53313), (648, 53304), (649, 53301), (664, 53271), (685, 53235), (775, 53010), (776, 53007), (787, 52971), (796, 52947), (804, 52914), (846, 52806), (848, 52800), (851, 52791), (900, 52692), (901, 52689), (906, 52674), (939, 52596), (946, 52584), (953, 52563), (955, 52554), (976, 52524), (1007, 52467), (1013, 52434), (1024, 52410), (1040, 52371), (1043, 52353), (1047, 52341), (1059, 52317), (1078, 52275), (1082, 52269), (1093, 52245),

Gene: WalkingDead_44 Start: 31418, Stop: 33292, Start Num: 217
Candidate Starts for WalkingDead_44:
(Start: 217 @31418 has 68 MA's), (246, 31445), (Start: 273 @31487 has 1 MA's), (Start: 285 @31508 has 1 MA's), (430, 31754), (436, 31769), (448, 31796), (572, 31982), (582, 32009), (626, 32090), (703, 32240), (741, 32324), (783, 32444), (784, 32447), (803, 32507), (806, 32513), (823, 32558), (830, 32573), (833, 32588), (845, 32624), (848, 32633), (855, 32660), (898, 32753), (936, 32846), (973, 32924), (975, 32927), (1009, 32996), (1018, 33035), (1038, 33077), (1041, 33095), (1066, 33155), (1079, 33176),

Gene: Wallhey_61 Start: 54135, Stop: 52276, Start Num: 190
Candidate Starts for Wallhey_61:
(Start: 173 @54159 has 3 MA's), (Start: 190 @54135 has 336 MA's), (Start: 222 @54111 has 3 MA's), (Start: 232 @54105 has 2 MA's), (261, 54063), (274, 54042), (336, 53928), (339, 53922), (355, 53892), (390, 53832), (398, 53811), (416, 53757), (429, 53745), (436, 53727), (440, 53715), (487, 53610),

(552, 53553), (569, 53517), (573, 53505), (585, 53478), (611, 53433), (643, 53376), (648, 53367), (649, 53364), (761, 53106), (796, 53004), (804, 52971), (812, 52950), (848, 52857), (851, 52848), (877, 52785), (900, 52749), (901, 52746), (906, 52731), (939, 52653), (946, 52641), (953, 52620), (976, 52581), (1013, 52491), (1022, 52473), (1024, 52467), (1032, 52452), (1040, 52428), (1042, 52413), (1043, 52410), (1047, 52398), (1059, 52374), (1066, 52353), (1082, 52326), (1093, 52302), (1098, 52287),

Gene: WalterMcMickey_42 Start: 31053, Stop: 29218, Start Num: 228
Candidate Starts for WalterMcMickey_42:
(Start: 228 @31053 has 960 MA's), (263, 31002), (307, 30936), (360, 30849), (373, 30825), (396, 30789), (399, 30777), (424, 30720), (430, 30711), (462, 30627), (480, 30591), (485, 30579), (490, 30567), (570, 30474), (592, 30426), (626, 30366), (643, 30339), (694, 30237), (696, 30234), (707, 30213), (709, 30207), (767, 30099), (803, 29976), (821, 29928), (847, 29853), (855, 29823), (869, 29793), (871, 29784), (900, 29715), (901, 29712), (919, 29673), (929, 29649), (931, 29643), (935, 29631), (1013, 29442), (1024, 29418), (1045, 29355), (1066, 29307), (1073, 29295), (1079, 29286),

Gene: Wander_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Wander_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: Warda_41 Start: 29679, Stop: 31544, Start Num: 228
Candidate Starts for Warda_41:
(Start: 228 @29679 has 960 MA's), (261, 29727), (410, 29976), (452, 30066), (572, 30273), (576, 30282), (622, 30372), (626, 30381), (633, 30396), (660, 30441), (686, 30486), (707, 30534), (733, 30591), (768, 30672), (803, 30792), (815, 30822), (836, 30879), (853, 30936), (855, 30945), (977, 31218), (1009, 31281), (1058, 31416), (1066, 31440), (1071, 31449),

Gene: Wardwill_39 Start: 27171, Stop: 25306, Start Num: 301
Candidate Starts for Wardwill_39:
(Start: 301 @27171 has 153 MA's), (304, 27165), (349, 27066), (353, 27057), (355, 27054), (369, 27033), (378, 27018), (382, 27012), (402, 26961), (404, 26958), (442, 26877), (474, 26787), (502, 26727), (533, 26724), (585, 26598), (586, 26595), (590, 26583), (607, 26553), (618, 26532), (636, 26496), (706, 26349), (773, 26181), (777, 26169), (847, 25989), (855, 25959), (878, 25905), (889, 25887), (908, 25830), (917, 25803), (933, 25761), (989, 25641), (992, 25632), (1010, 25572), (1013, 25548), (1017, 25536), (1020, 25527), (1028, 25509), (1040, 25476), (1068, 25404),

Gene: Warrior24_48 Start: 30037, Stop: 28247, Start Num: 228
Candidate Starts for Warrior24_48:
(134, 30169), (Start: 228 @30037 has 960 MA's), (399, 29758), (400, 29755), (410, 29728), (424, 29701), (448, 29650), (490, 29548), (570, 29455), (585, 29416), (595, 29398), (696, 29209), (729, 29143), (768, 29083), (778, 29044), (796, 28993), (798, 28984), (803, 28963), (823, 28912), (835, 28879), (847, 28840), (855, 28810), (895, 28750), (900, 28729), (919, 28687), (930, 28660), (977, 28558), (1009, 28495), (1010, 28492), (1066, 28336), (1073, 28324), (1082, 28312),

Gene: WaterT_64 Start: 38299, Stop: 36338, Start Num: 294
Candidate Starts for WaterT_64:
(Start: 294 @38299 has 13 MA's), (326, 38239), (370, 38179), (399, 38125), (414, 38080), (426, 38056), (430, 38050), (471, 37942), (478, 37930), (549, 37777), (559, 37756), (568, 37738), (573, 37723), (600, 37672), (610, 37651), (616, 37642), (628, 37621), (650, 37585), (662, 37561), (669,

37549), (727, 37411), (746, 37384), (768, 37351), (775, 37324), (779, 37306), (780, 37303), (784, 37291), (819, 37183), (848, 37099), (903, 36880), (918, 36835), (944, 36769), (959, 36727), (977, 36697), (995, 36646), (996, 36640), (1005, 36616), (1011, 36589), (1013, 36577), (1014, 36574), (1036, 36520), (1041, 36496), (1043, 36490), (1066, 36436), (1084, 36406), (1095, 36382),

Gene: Waterdiva_60 Start: 54398, Stop: 52539, Start Num: 190
Candidate Starts for Waterdiva_60:
(Start: 173 @54422 has 3 MA's), (Start: 190 @54398 has 336 MA's), (Start: 222 @54374 has 3 MA's), (Start: 232 @54368 has 2 MA's), (261, 54326), (274, 54305), (336, 54191), (339, 54185), (355, 54155), (390, 54095), (398, 54074), (416, 54020), (429, 54008), (436, 53990), (440, 53978), (487, 53873), (552, 53816), (569, 53780), (573, 53768), (585, 53741), (601, 53714), (611, 53696), (622, 53678), (643, 53639), (648, 53630), (649, 53627), (761, 53369), (796, 53267), (804, 53234), (812, 53213), (848, 53120), (851, 53111), (877, 53048), (900, 53012), (901, 53009), (906, 52994), (939, 52916), (946, 52904), (953, 52883), (976, 52844), (1013, 52754), (1022, 52736), (1024, 52730), (1032, 52715), (1040, 52691), (1042, 52676), (1043, 52673), (1047, 52661), (1059, 52637), (1082, 52589), (1093, 52565),

Gene: Waterlily_10 Start: 8355, Stop: 6106, Start Num: 163
Candidate Starts for Waterlily_10:
(40, 8685), (83, 8535), (93, 8499), (98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (170, 8346), (235, 8256), (258, 8226), (261, 8220), (299, 8166), (341, 8115), (402, 7992), (422, 7935), (430, 7911), (464, 7827), (482, 7788), (508, 7716), (511, 7695), (515, 7680), (516, 7671), (544, 7578), (570, 7515), (620, 7383), (647, 7329), (692, 7230), (714, 7179), (753, 7095), (778, 7020), (781, 7005), (799, 6948), (844, 6810), (857, 6762), (858, 6759), (862, 6729), (898, 6609), (930, 6543), (1013, 6333), (1020, 6312), (1037, 6270), (1043, 6243), (1064, 6198), (1066, 6189), (1073, 6177),

Gene: Watermelon_46 Start: 35165, Stop: 33339, Start Num: 228
Candidate Starts for Watermelon_46:
(Start: 228 @35165 has 960 MA's), (366, 34952), (373, 34937), (410, 34859), (418, 34838), (424, 34832), (430, 34823), (479, 34706), (490, 34679), (570, 34586), (576, 34571), (621, 34487), (622, 34484), (659, 34418), (680, 34388), (690, 34358), (709, 34313), (729, 34274), (803, 34094), (821, 34046), (836, 34007), (855, 33941), (900, 33860), (901, 33857), (935, 33776), (1009, 33626), (1010, 33623), (1018, 33587), (1032, 33563), (1035, 33554), (1039, 33542), (1066, 33467), (1079, 33446),

Gene: Watson_48 Start: 31845, Stop: 30031, Start Num: 228
Candidate Starts for Watson_48:
(Start: 228 @31845 has 960 MA's), (257, 31806), (263, 31794), (360, 31641), (369, 31626), (399, 31569), (424, 31512), (430, 31503), (448, 31461), (465, 31410), (490, 31359), (570, 31266), (590, 31218), (595, 31209), (607, 31194), (626, 31155), (643, 31128), (659, 31098), (703, 31005), (709, 30993), (732, 30945), (742, 30930), (803, 30774), (836, 30687), (855, 30621), (871, 30582), (901, 30510), (919, 30471), (929, 30447), (935, 30429), (949, 30396), (958, 30369), (992, 30315), (1013, 30255), (1042, 30177), (1066, 30120), (1073, 30108), (1079, 30099),

Gene: Weher20_60 Start: 54841, Stop: 52982, Start Num: 190
Candidate Starts for Weher20_60:
(Start: 173 @54865 has 3 MA's), (Start: 190 @54841 has 336 MA's), (Start: 222 @54817 has 3 MA's), (Start: 232 @54811 has 2 MA's), (261, 54769), (274, 54748), (336, 54634), (339, 54628), (355, 54598), (390, 54538), (398, 54517), (416, 54463), (429, 54451), (436, 54433), (440, 54421), (487, 54316), (552, 54259), (569, 54223), (573, 54211), (583, 54187), (590, 54175), (601, 54157), (611, 54139), (622, 54121), (643, 54082), (648, 54073), (649, 54070), (651, 54067), (796, 53710), (804, 53677), (812, 53656), (848, 53563), (851, 53554), (877, 53491), (900, 53455), (901, 53452), (906, 53437), (939, 53359), (946, 53347), (953, 53326), (976, 53287), (1013, 53197), (1022, 53179), (1024, 53173), (1032, 53158), (1040, 53134), (1042, 53119), (1043, 53116), (1047, 53104), (1059, 53080), (1082,

53032), (1093, 53008),

Gene: WeiHuaDA_48 Start: 32697, Stop: 30910, Start Num: 228
Candidate Starts for WeiHuaDA_48:
(Start: 228 @32697 has 960 MA's), (362, 32490), (366, 32484), (384, 32454), (398, 32424), (400, 32418), (410, 32391), (424, 32364), (435, 32343), (448, 32313), (485, 32223), (490, 32211), (570, 32118), (590, 32070), (595, 32061), (607, 32046), (643, 31980), (686, 31899), (707, 31851), (803, 31626), (823, 31575), (835, 31542), (836, 31539), (855, 31473), (871, 31434), (895, 31413), (924, 31338), (929, 31326), (931, 31320), (982, 31212), (1009, 31158), (1013, 31134), (1038, 31077), (1042, 31056), (1066, 30999), (1073, 30987), (1082, 30975),

Gene: Wesak_10 Start: 8474, Stop: 6273, Start Num: 176
Candidate Starts for Wesak_10:
(106, 8588), (138, 8525), (Start: 176 @8474 has 7 MA's), (209, 8429), (247, 8372), (304, 8288), (333, 8240), (388, 8138), (395, 8123), (451, 7970), (508, 7823), (511, 7802), (645, 7502), (673, 7448), (692, 7400), (711, 7355), (714, 7349), (753, 7265), (778, 7190), (841, 6995), (844, 6983), (857, 6935), (877, 6857), (879, 6848), (910, 6758), (964, 6632), (970, 6623), (1019, 6485), (1066, 6359), (1073, 6347), (1077, 6338), (1090, 6308),

Gene: West99_57 Start: 52637, Stop: 50808, Start Num: 190
Candidate Starts for West99_57:
(Start: 190 @52637 has 336 MA's), (Start: 232 @52610 has 2 MA's), (Start: 255 @52580 has 8 MA's), (261, 52568), (Start: 276 @52541 has 2 MA's), (278, 52538), (284, 52529), (307, 52511), (362, 52415), (390, 52364), (399, 52340), (467, 52178), (476, 52163), (482, 52154), (487, 52142), (552, 52085), (569, 52049), (573, 52037), (583, 52013), (630, 51929), (648, 51899), (649, 51896), (664, 51866), (727, 51722), (755, 51656), (771, 51617), (775, 51605), (780, 51584), (787, 51566), (804, 51509), (840, 51425), (848, 51395), (851, 51386), (875, 51320), (897, 51293), (900, 51284), (906, 51266), (919, 51242), (939, 51188), (946, 51176), (953, 51155), (992, 51086), (1013, 51026), (1022, 51008), (1036, 50975), (1040, 50963), (1042, 50948), (1043, 50945), (1047, 50933), (1059, 50909), (1060, 50906), (1082, 50858), (1083, 50855), (1093, 50834), (1100, 50813),

Gene: WestPM_35 Start: 27173, Stop: 25272, Start Num: 298
Candidate Starts for WestPM_35:
(Start: 298 @27173 has 15 MA's), (360, 27050), (378, 27020), (382, 27014), (400, 26972), (402, 26963), (431, 26906), (435, 26897), (439, 26885), (442, 26879), (552, 26678), (582, 26603), (586, 26594), (590, 26582), (607, 26552), (618, 26531), (623, 26519), (636, 26495), (708, 26345), (784, 26138), (800, 26084), (840, 25982), (845, 25961), (855, 25925), (870, 25889), (873, 25883), (908, 25796), (917, 25769), (974, 25637), (992, 25598), (997, 25577), (1010, 25538), (1013, 25514), (1015, 25508), (1025, 25481), (1068, 25370),

Gene: Whabigail7_45 Start: 31605, Stop: 29818, Start Num: 228
Candidate Starts for Whabigail7_45:
(147, 31692), (Start: 228 @31605 has 960 MA's), (362, 31398), (366, 31392), (375, 31377), (384, 31362), (400, 31326), (410, 31299), (424, 31272), (435, 31251), (490, 31119), (570, 31026), (590, 30978), (595, 30969), (607, 30954), (643, 30888), (686, 30807), (707, 30759), (709, 30753), (742, 30690), (803, 30534), (823, 30483), (835, 30450), (836, 30447), (855, 30381), (871, 30342), (895, 30321), (924, 30246), (929, 30234), (949, 30183), (982, 30120), (992, 30102), (1009, 30066), (1013, 30042), (1042, 29964), (1066, 29907), (1073, 29895), (1079, 29886),

Gene: Wheeler_45 Start: 34873, Stop: 33047, Start Num: 228
Candidate Starts for Wheeler_45:
(Start: 228 @34873 has 960 MA's), (366, 34660), (373, 34645), (399, 34597), (410, 34567), (418, 34546), (424, 34540), (430, 34531), (479, 34414), (490, 34387), (570, 34294), (576, 34279), (590,

34246), (621, 34195), (622, 34192), (659, 34126), (680, 34096), (690, 34066), (709, 34021), (729, 33982), (803, 33802), (815, 33772), (821, 33754), (823, 33751), (836, 33715), (855, 33649), (900, 33568), (901, 33565), (935, 33484), (1009, 33334), (1010, 33331), (1018, 33295), (1032, 33271), (1035, 33262), (1039, 33250), (1066, 33175), (1079, 33154),

Gene: Whitspit_43 Start: 32592, Stop: 30766, Start Num: 228
Candidate Starts for Whitspit_43:
(Start: 228 @32592 has 960 MA's), (366, 32379), (373, 32364), (399, 32316), (410, 32286), (418, 32265), (424, 32259), (430, 32250), (462, 32166), (479, 32133), (490, 32106), (570, 32013), (576, 31998), (583, 31977), (590, 31965), (621, 31914), (622, 31911), (659, 31845), (680, 31815), (690, 31785), (709, 31740), (729, 31701), (803, 31521), (821, 31473), (836, 31434), (855, 31368), (871, 31329), (895, 31308), (900, 31287), (906, 31269), (935, 31203), (1009, 31053), (1010, 31050), (1018, 31014), (1032, 30990), (1035, 30981), (1039, 30969), (1066, 30894), (1079, 30873),

Gene: WideWale_45 Start: 31601, Stop: 29814, Start Num: 228
Candidate Starts for WideWale_45:
(Start: 228 @31601 has 960 MA's), (360, 31397), (362, 31394), (366, 31388), (384, 31358), (399, 31325), (400, 31322), (410, 31295), (424, 31268), (448, 31217), (490, 31115), (570, 31022), (590, 30974), (595, 30965), (607, 30950), (643, 30884), (686, 30803), (707, 30755), (778, 30611), (803, 30530), (823, 30479), (835, 30446), (855, 30377), (871, 30338), (895, 30317), (900, 30296), (904, 30284), (990, 30104), (992, 30098), (1009, 30062), (1013, 30038), (1042, 29960), (1066, 29903), (1073, 29891),

Gene: Widow_43 Start: 35284, Stop: 32969, Start Num: 15
Candidate Starts for Widow_43:
(Start: 15 @35284 has 2 MA's), (17, 35275), (25, 35179), (30, 35149), (38, 35083), (134, 34924), (Start: 152 @34894 has 1 MA's), (160, 34882), (202, 34828), (216, 34807), (Start: 285 @34708 has 1 MA's), (307, 34687), (327, 34642), (358, 34594), (447, 34411), (476, 34348), (487, 34327), (490, 34318), (569, 34237), (573, 34225), (599, 34171), (617, 34141), (632, 34114), (648, 34087), (649, 34084), (651, 34081), (722, 33934), (750, 33850), (769, 33799), (780, 33760), (783, 33751), (787, 33742), (804, 33685), (840, 33604), (848, 33574), (885, 33484), (897, 33472), (906, 33445), (939, 33367), (946, 33355), (955, 33325), (1001, 33235), (1007, 33220), (1013, 33187), (1042, 33109), (1043, 33106), (1054, 33082), (1059, 33070), (1082, 33019), (1093, 32995),

Gene: Wiks_44 Start: 29422, Stop: 27581, Start Num: 228
Candidate Starts for Wiks_44:
(Start: 200 @29452 has 1 MA's), (Start: 228 @29422 has 960 MA's), (360, 29218), (399, 29143), (400, 29140), (410, 29113), (415, 29098), (424, 29086), (448, 29035), (485, 28945), (490, 28933), (570, 28840), (585, 28801), (595, 28783), (607, 28768), (643, 28702), (660, 28669), (663, 28666), (710, 28564), (742, 28504), (778, 28420), (803, 28339), (835, 28255), (836, 28252), (840, 28243), (847, 28216), (855, 28186), (895, 28126), (906, 28087), (1009, 27871), (1010, 27868), (1013, 27847), (1066, 27712), (1073, 27700), (1079, 27691), (1082, 27688), (1115, 27595),

Gene: Wilbur_45 Start: 31567, Stop: 29741, Start Num: 228
Candidate Starts for Wilbur_45:
(Start: 228 @31567 has 960 MA's), (Start: 241 @31546 has 3 MA's), (263, 31516), (278, 31486), (384, 31324), (394, 31306), (424, 31234), (430, 31225), (480, 31105), (490, 31081), (570, 30988), (592, 30940), (607, 30919), (626, 30880), (696, 30748), (707, 30727), (729, 30682), (733, 30670), (798, 30517), (803, 30496), (847, 30373), (855, 30343), (871, 30304), (900, 30238), (901, 30235), (906, 30220), (919, 30196), (929, 30172), (1013, 29965), (1066, 29830), (1073, 29818), (1079, 29809),

Gene: WildNOut_39 Start: 28934, Stop: 27069, Start Num: 301
Candidate Starts for WildNOut_39:

(Start: 301 @28934 has 153 MA's), (Start: 305 @28925 has 5 MA's), (353, 28820), (360, 28811), (378, 28781), (380, 28778), (435, 28658), (439, 28646), (442, 28640), (483, 28535), (494, 28508), (582, 28367), (585, 28361), (586, 28358), (590, 28346), (606, 28319), (607, 28316), (614, 28301), (618, 28295), (621, 28289), (638, 28256), (701, 28127), (726, 28067), (758, 27992), (847, 27752), (850, 27743), (851, 27740), (855, 27722), (873, 27680), (877, 27674), (879, 27665), (888, 27650), (908, 27593), (974, 27434), (989, 27404), (992, 27395), (1010, 27335), (1013, 27311), (1028, 27272), (1040, 27239), (1044, 27227), (1068, 27167),

Gene: Wildwest_40 Start: 29139, Stop: 30983, Start Num: 228
Candidate Starts for Wildwest_40:
(103, 28944), (139, 29022), (157, 29052), (Start: 228 @29139 has 960 MA's), (343, 29313), (360, 29343), (383, 29370), (410, 29436), (452, 29526), (572, 29712), (576, 29721), (587, 29751), (626, 29820), (633, 29835), (707, 29973), (768, 30111), (803, 30231), (836, 30318), (853, 30375), (855, 30384), (929, 30549), (1009, 30720), (1066, 30879), (1071, 30888), (1079, 30900),

Gene: Wile_44 Start: 31553, Stop: 29724, Start Num: 228
Candidate Starts for Wile_44:
(Start: 228 @31553 has 960 MA's), (263, 31502), (278, 31472), (384, 31310), (394, 31292), (399, 31277), (424, 31220), (430, 31211), (480, 31091), (490, 31067), (544, 31025), (570, 30974), (592, 30926), (607, 30905), (626, 30866), (654, 30821), (657, 30815), (696, 30734), (707, 30713), (729, 30668), (798, 30503), (803, 30482), (855, 30329), (871, 30290), (901, 30218), (906, 30203), (919, 30179), (926, 30161), (929, 30155), (931, 30149), (1013, 29948), (1066, 29813), (1073, 29801), (1079, 29792),

Gene: Wilkins_44 Start: 34221, Stop: 32395, Start Num: 228
Candidate Starts for Wilkins_44:
(Start: 228 @34221 has 960 MA's), (366, 34008), (373, 33993), (399, 33945), (410, 33915), (418, 33894), (424, 33888), (430, 33879), (479, 33762), (490, 33735), (570, 33642), (576, 33627), (621, 33543), (622, 33540), (659, 33474), (680, 33444), (690, 33414), (709, 33369), (729, 33330), (803, 33150), (821, 33102), (836, 33063), (855, 32997), (871, 32958), (895, 32937), (900, 32916), (906, 32898), (935, 32832), (1009, 32682), (1010, 32679), (1018, 32643), (1032, 32619), (1035, 32610), (1039, 32598), (1057, 32550), (1066, 32523), (1079, 32502),

Gene: WilliamStrong_38 Start: 28667, Stop: 26775, Start Num: 296
Candidate Starts for WilliamStrong_38:
(Start: 296 @28667 has 13 MA's), (Start: 305 @28658 has 5 MA's), (346, 28571), (369, 28532), (378, 28517), (382, 28511), (402, 28460), (439, 28382), (442, 28376), (474, 28286), (560, 28154), (582, 28100), (586, 28091), (590, 28079), (607, 28049), (618, 28028), (621, 28022), (623, 28016), (624, 28013), (701, 27866), (719, 27821), (726, 27806), (770, 27695), (784, 27641), (789, 27629), (851, 27446), (855, 27428), (873, 27386), (889, 27356), (897, 27335), (908, 27299), (934, 27227), (974, 27140), (992, 27101), (1010, 27041), (1013, 27017), (1033, 26969), (1040, 26945), (1068, 26873),

Gene: Windsor_60 Start: 54584, Stop: 52725, Start Num: 190
Candidate Starts for Windsor_60:
(Start: 173 @54608 has 3 MA's), (Start: 190 @54584 has 336 MA's), (Start: 222 @54560 has 3 MA's), (Start: 232 @54554 has 2 MA's), (261, 54512), (274, 54491), (336, 54377), (339, 54371), (355, 54341), (390, 54281), (398, 54260), (416, 54206), (429, 54194), (436, 54176), (440, 54164), (487, 54059), (552, 54002), (569, 53966), (573, 53954), (583, 53930), (590, 53918), (601, 53900), (611, 53882), (622, 53864), (643, 53825), (648, 53816), (649, 53813), (651, 53810), (796, 53453), (804, 53420), (812, 53399), (848, 53306), (851, 53297), (877, 53234), (900, 53198), (901, 53195), (906, 53180), (939, 53102), (946, 53090), (953, 53069), (976, 53030), (1013, 52940), (1022, 52922), (1024, 52916), (1032, 52901), (1040, 52877), (1042, 52862), (1043, 52859), (1047, 52847), (1059, 52823), (1082, 52775), (1093, 52751),

Gene: Winzigespinne_38 Start: 28618, Stop: 26753, Start Num: 301
Candidate Starts for Winzigespinne_38:
(Start: 241 @28705 has 3 MA's), (Start: 301 @28618 has 153 MA's), (Start: 305 @28609 has 5 MA's), (353, 28504), (360, 28495), (378, 28465), (380, 28462), (435, 28342), (439, 28330), (442, 28324), (483, 28219), (494, 28192), (582, 28051), (585, 28045), (586, 28042), (590, 28030), (606, 28003), (607, 28000), (614, 27985), (618, 27979), (621, 27973), (638, 27940), (726, 27751), (847, 27436), (850, 27427), (851, 27424), (855, 27406), (873, 27364), (877, 27358), (888, 27334), (908, 27277), (974, 27118), (989, 27088), (992, 27079), (1010, 27019), (1013, 26995), (1028, 26956), (1040, 26923), (1044, 26911), (1068, 26851),

Gene: Wizard007_45 Start: 31575, Stop: 29749, Start Num: 228
Candidate Starts for Wizard007_45:
(Start: 228 @31575 has 960 MA's), (Start: 241 @31554 has 3 MA's), (263, 31524), (278, 31494), (384, 31332), (394, 31314), (424, 31242), (430, 31233), (480, 31113), (490, 31089), (570, 30996), (592, 30948), (607, 30927), (626, 30888), (696, 30756), (707, 30735), (729, 30690), (733, 30678), (798, 30525), (803, 30504), (847, 30381), (855, 30351), (871, 30312), (900, 30246), (901, 30243), (906, 30228), (919, 30204), (929, 30180), (1013, 29973), (1066, 29838), (1073, 29826), (1079, 29817),

Gene: Wolpertinger_43 Start: 30332, Stop: 28545, Start Num: 228
Candidate Starts for Wolpertinger_43:
(Start: 228 @30332 has 960 MA's), (360, 30128), (399, 30056), (410, 30026), (424, 29999), (572, 29747), (595, 29696), (643, 29615), (668, 29570), (670, 29567), (707, 29486), (733, 29429), (766, 29387), (778, 29342), (803, 29261), (823, 29210), (836, 29174), (855, 29108), (895, 29048), (897, 29036), (938, 28934), (949, 28910), (954, 28892), (992, 28829), (1007, 28802), (1009, 28793), (1013, 28769), (1066, 28634), (1073, 28622), (1079, 28613),

Gene: Wooldri_50 Start: 31764, Stop: 29950, Start Num: 228
Candidate Starts for Wooldri_50:
(Start: 228 @31764 has 960 MA's), (257, 31725), (263, 31713), (360, 31560), (369, 31545), (399, 31488), (424, 31431), (430, 31422), (448, 31380), (465, 31329), (490, 31278), (570, 31185), (590, 31137), (595, 31128), (607, 31113), (626, 31074), (643, 31047), (659, 31017), (703, 30924), (732, 30864), (742, 30849), (803, 30693), (836, 30606), (855, 30540), (871, 30501), (901, 30429), (919, 30390), (929, 30366), (935, 30348), (949, 30315), (958, 30288), (992, 30234), (1013, 30174), (1042, 30096), (1066, 30039), (1073, 30027), (1079, 30018),

Gene: Wooper_54 Start: 47982, Stop: 46165, Start Num: 225
Candidate Starts for Wooper_54:
(Start: 225 @47982 has 16 MA's), (Start: 232 @47973 has 2 MA's), (249, 47946), (259, 47934), (274, 47910), (278, 47901), (381, 47727), (411, 47652), (449, 47577), (487, 47499), (552, 47442), (569, 47406), (573, 47394), (583, 47370), (635, 47277), (649, 47253), (658, 47235), (775, 46962), (787, 46923), (797, 46893), (804, 46866), (846, 46758), (848, 46752), (851, 46743), (897, 46653), (900, 46644), (901, 46641), (906, 46626), (939, 46548), (946, 46536), (948, 46530), (953, 46515), (981, 46467), (1007, 46419), (1013, 46386), (1024, 46362), (1040, 46323), (1042, 46308), (1059, 46263), (1093, 46191),

Gene: WorMMAs_42 Start: 33493, Stop: 31502, Start Num: 111
Candidate Starts for WorMMAs_42:
(111, 33493), (164, 33397), (202, 33352), (Start: 232 @33316 has 2 MA's), (Start: 255 @33286 has 8 MA's), (261, 33274), (290, 33235), (307, 33217), (329, 33169), (362, 33121), (406, 33022), (416, 32995), (458, 32923), (467, 32896), (483, 32866), (487, 32860), (490, 32851), (560, 32788), (569, 32770), (599, 32704), (627, 32656), (632, 32647), (643, 32629), (649, 32617), (651, 32614), (664, 32587), (722, 32467), (750, 32383), (764, 32347), (783, 32284), (787, 32275), (796, 32251), (804,

32218), (831, 32161), (840, 32137), (848, 32107), (897, 32005), (906, 31978), (939, 31900), (946, 31888), (948, 31882), (976, 31828), (1007, 31753), (1024, 31696), (1041, 31645), (1042, 31642), (1043, 31639), (1054, 31615), (1059, 31603), (1082, 31552), (1087, 31537), (1093, 31528), (1100, 31507),

Gene: WorldCup_43 Start: 30725, Stop: 28932, Start Num: 228
Candidate Starts for WorldCup_43:
(Start: 228 @30725 has 960 MA's), (235, 30716), (263, 30674), (317, 30587), (360, 30521), (366, 30512), (370, 30503), (381, 30485), (400, 30443), (410, 30416), (415, 30401), (424, 30389), (448, 30338), (490, 30236), (565, 30158), (570, 30143), (595, 30086), (659, 29975), (704, 29879), (733, 29816), (764, 29777), (767, 29771), (803, 29648), (840, 29552), (847, 29525), (855, 29495), (871, 29456), (900, 29414), (949, 29297), (990, 29222), (1009, 29180), (1042, 29078), (1066, 29021), (1073, 29009), (1079, 29000),

Gene: WunderPhul_45 Start: 29420, Stop: 27579, Start Num: 228
Candidate Starts for WunderPhul_45:
(Start: 200 @29450 has 1 MA's), (Start: 228 @29420 has 960 MA's), (360, 29216), (399, 29141), (400, 29138), (410, 29111), (415, 29096), (424, 29084), (448, 29033), (485, 28943), (490, 28931), (570, 28838), (585, 28799), (595, 28781), (607, 28766), (643, 28700), (660, 28667), (663, 28664), (710, 28562), (742, 28502), (778, 28418), (803, 28337), (835, 28253), (836, 28250), (840, 28241), (847, 28214), (855, 28184), (895, 28124), (906, 28085), (1009, 27869), (1010, 27866), (1013, 27845), (1066, 27710), (1073, 27698), (1079, 27689), (1082, 27686), (1115, 27593),

Gene: Xavier_59 Start: 54026, Stop: 52167, Start Num: 190
Candidate Starts for Xavier_59:
(Start: 173 @54050 has 3 MA's), (Start: 190 @54026 has 336 MA's), (Start: 222 @54002 has 3 MA's), (Start: 232 @53996 has 2 MA's), (261, 53954), (274, 53933), (336, 53819), (339, 53813), (355, 53783), (390, 53723), (398, 53702), (416, 53648), (429, 53636), (436, 53618), (440, 53606), (487, 53501), (552, 53444), (569, 53408), (573, 53396), (585, 53369), (611, 53324), (643, 53267), (648, 53258), (649, 53255), (796, 52895), (804, 52862), (812, 52841), (848, 52748), (851, 52739), (877, 52676), (900, 52640), (901, 52637), (906, 52622), (939, 52544), (946, 52532), (953, 52511), (976, 52472), (1013, 52382), (1022, 52364), (1024, 52358), (1032, 52343), (1040, 52319), (1042, 52304), (1043, 52301), (1047, 52289), (1059, 52265), (1082, 52217), (1093, 52193),

Gene: Xebius_38 Start: 28720, Stop: 26855, Start Num: 301
Candidate Starts for Xebius_38:
(Start: 301 @28720 has 153 MA's), (320, 28675), (346, 28621), (382, 28561), (402, 28510), (439, 28432), (442, 28426), (458, 28381), (459, 28378), (474, 28336), (502, 28276), (582, 28153), (586, 28144), (590, 28132), (597, 28120), (607, 28102), (618, 28081), (623, 28069), (636, 28045), (706, 27898), (773, 27730), (840, 27565), (850, 27529), (855, 27508), (873, 27466), (908, 27379), (924, 27334), (965, 27235), (989, 27190), (992, 27181), (1010, 27121), (1013, 27097), (1025, 27064), (1068, 26953),

Gene: Xena_43 Start: 31519, Stop: 29690, Start Num: 228
Candidate Starts for Xena_43:
(Start: 228 @31519 has 960 MA's), (263, 31468), (278, 31438), (384, 31276), (394, 31258), (399, 31243), (424, 31186), (430, 31177), (480, 31057), (490, 31033), (544, 30991), (570, 30940), (592, 30892), (607, 30871), (626, 30832), (654, 30787), (657, 30781), (696, 30700), (707, 30679), (729, 30634), (798, 30469), (803, 30448), (855, 30295), (871, 30256), (901, 30184), (906, 30169), (919, 30145), (926, 30127), (929, 30121), (931, 30115), (1013, 29914), (1066, 29779), (1073, 29767), (1079, 29758),

Gene: XianYue_44 Start: 31263, Stop: 29476, Start Num: 228

Candidate Starts for XianYue_44:
(Start: 228 @31263 has 960 MA's), (360, 31059), (362, 31056), (366, 31050), (384, 31020), (396, 30999), (399, 30987), (410, 30957), (424, 30930), (435, 30909), (490, 30777), (570, 30684), (595, 30627), (607, 30612), (643, 30546), (686, 30465), (707, 30417), (744, 30345), (803, 30192), (823, 30141), (835, 30108), (836, 30105), (855, 30039), (871, 30000), (895, 29979), (924, 29904), (929, 29892), (931, 29886), (949, 29841), (982, 29778), (1009, 29724), (1013, 29700), (1042, 29622), (1066, 29565), (1073, 29553), (1079, 29544),

Gene: Xincheng_54 Start: 55076, Stop: 53253, Start Num: 182
Candidate Starts for Xincheng_54:
(Start: 163 @55094 has 29 MA's), (Start: 182 @55076 has 33 MA's), (Start: 232 @55052 has 2 MA's), (249, 55025), (261, 55010), (274, 54989), (324, 54902), (336, 54884), (386, 54797), (398, 54770), (402, 54755), (436, 54689), (449, 54659), (452, 54650), (457, 54647), (458, 54644), (467, 54617), (552, 54524), (560, 54506), (569, 54488), (573, 54476), (585, 54449), (622, 54386), (643, 54347), (648, 54338), (649, 54335), (664, 54305), (685, 54269), (775, 54044), (776, 54041), (787, 54005), (796, 53981), (804, 53948), (846, 53840), (848, 53834), (851, 53825), (900, 53726), (901, 53723), (906, 53708), (939, 53630), (946, 53618), (953, 53597), (955, 53588), (976, 53558), (992, 53528), (1007, 53501), (1013, 53468), (1022, 53450), (1024, 53444), (1040, 53405), (1043, 53387), (1047, 53375), (1059, 53351), (1078, 53309), (1082, 53303), (1093, 53279),

Gene: Xitlalli_10 Start: 8652, Stop: 6406, Start Num: 161
Candidate Starts for Xitlalli_10:
(Start: 161 @8652 has 21 MA's), (247, 8535), (257, 8529), (Start: 285 @8484 has 1 MA's), (388, 8277), (395, 8262), (451, 8109), (508, 7962), (511, 7941), (515, 7926), (526, 7866), (556, 7785), (571, 7746), (645, 7641), (714, 7488), (753, 7404), (778, 7329), (841, 7134), (844, 7122), (857, 7074), (877, 6996), (879, 6987), (910, 6897), (923, 6873), (935, 6843), (970, 6762), (1019, 6624), (1033, 6588), (1035, 6579), (1053, 6531), (1062, 6504), (1066, 6492), (1073, 6480),

Gene: Xkcd426_52 Start: 45445, Stop: 43514, Start Num: 298
Candidate Starts for Xkcd426_52:
(Start: 298 @45445 has 15 MA's), (368, 45334), (369, 45331), (384, 45307), (386, 45304), (409, 45244), (509, 44998), (524, 44968), (527, 44959), (535, 44929), (555, 44890), (577, 44839), (609, 44776), (616, 44767), (639, 44728), (679, 44659), (728, 44527), (772, 44437), (778, 44419), (782, 44404), (787, 44392), (806, 44335), (811, 44320), (838, 44242), (847, 44209), (856, 44176), (861, 44155), (867, 44137), (886, 44095), (919, 44002), (926, 43984), (929, 43978), (931, 43972), (939, 43948), (995, 43816), (1013, 43747), (1014, 43744), (1042, 43672), (1058, 43639), (1066, 43615),

Gene: YDN12_50 Start: 39191, Stop: 37182, Start Num: 298
Candidate Starts for YDN12_50:
(254, 39257), (256, 39254), (Start: 298 @39191 has 15 MA's), (343, 39122), (409, 38990), (411, 38984), (435, 38930), (439, 38918), (442, 38912), (451, 38891), (459, 38867), (486, 38807), (510, 38741), (555, 38588), (568, 38561), (576, 38540), (593, 38504), (609, 38474), (625, 38450), (631, 38438), (639, 38426), (679, 38357), (724, 38246), (787, 38090), (806, 38033), (814, 38012), (828, 37970), (838, 37940), (847, 37907), (856, 37874), (861, 37853), (867, 37835), (919, 37670), (926, 37652), (931, 37640), (936, 37625), (939, 37616), (995, 37484), (1009, 37439), (1013, 37415), (1014, 37412), (1042, 37340), (1058, 37307), (1066, 37283), (1079, 37262), (1092, 37235),

Gene: Yafa_10 Start: 8355, Stop: 6151, Start Num: 163
Candidate Starts for Yafa_10:
(98, 8484), (129, 8412), (Start: 163 @8355 has 29 MA's), (235, 8265), (258, 8235), (261, 8229), (Start: 285 @8193 has 1 MA's), (341, 8118), (356, 8088), (422, 7938), (464, 7830), (482, 7791), (516, 7674), (544, 7581), (548, 7569), (571, 7515), (574, 7503), (587, 7473), (624, 7440), (654, 7383), (692, 7299), (714, 7248), (723, 7224), (724, 7221), (753, 7140), (844, 6855), (857, 6807), (875, 6732), (880, 6717),

(898, 6654), (913, 6624), (1013, 6378), (1019, 6360), (1035, 6321), (1036, 6318), (1043, 6288), (1062, 6246), (1064, 6243), (1066, 6234), (1073, 6222),

Gene: Yago84_49 Start: 46049, Stop: 44235, Start Num: 221
Candidate Starts for Yago84_49:
(150, 46139), (154, 46133), (Start: 221 @46049 has 14 MA's), (Start: 232 @46040 has 2 MA's), (261, 45998), (336, 45872), (362, 45830), (384, 45788), (411, 45719), (435, 45680), (439, 45668), (440, 45665), (476, 45590), (487, 45569), (569, 45476), (633, 45350), (643, 45335), (649, 45323), (692, 45233), (780, 45011), (804, 44936), (848, 44822), (851, 44813), (877, 44750), (901, 44711), (906, 44696), (939, 44618), (946, 44606), (948, 44600), (953, 44585), (955, 44576), (960, 44567), (1007, 44489), (1013, 44456), (1014, 44453), (1038, 44399), (1040, 44393), (1049, 44357), (1059, 44333), (1093, 44261),

Gene: Yahalom_57 Start: 53658, Stop: 51841, Start Num: 230
Candidate Starts for Yahalom_57:
(46, 54042), (110, 53841), (Start: 230 @53658 has 52 MA's), (249, 53628), (366, 53448), (435, 53295), (439, 53283), (452, 53253), (458, 53247), (487, 53184), (489, 53178), (552, 53127), (566, 53100), (569, 53091), (590, 53043), (649, 52938), (694, 52842), (722, 52791), (775, 52647), (787, 52608), (797, 52578), (804, 52551), (810, 52539), (846, 52443), (848, 52437), (851, 52428), (854, 52416), (883, 52344), (900, 52314), (906, 52296), (912, 52287), (939, 52218), (946, 52206), (953, 52185), (992, 52116), (1002, 52101), (1010, 52077), (1013, 52056), (1022, 52038), (1024, 52032), (1038, 51999), (1040, 51993), (1043, 51975), (1047, 51963), (1054, 51951), (1059, 51939), (1078, 51897), (1093, 51867),

Gene: Yang_41 Start: 29089, Stop: 31023, Start Num: 162
Candidate Starts for Yang_41:
(Start: 162 @29089 has 1 MA's), (Start: 228 @29158 has 960 MA's), (261, 29206), (410, 29455), (462, 29575), (572, 29752), (576, 29761), (626, 29860), (633, 29875), (643, 29887), (707, 30013), (768, 30151), (803, 30271), (836, 30358), (853, 30415), (855, 30424), (867, 30448), (932, 30598), (1009, 30760), (1066, 30919),

Gene: Yappy_80 Start: 40185, Stop: 38026, Start Num: 215
Candidate Starts for Yappy_80:
(Start: 215 @40185 has 12 MA's), (242, 40149), (251, 40137), (257, 40128), (266, 40113), (281, 40083), (317, 40014), (326, 39999), (361, 39933), (391, 39885), (392, 39882), (407, 39846), (410, 39840), (411, 39837), (421, 39804), (446, 39741), (461, 39696), (482, 39654), (506, 39588), (523, 39534), (575, 39393), (601, 39339), (609, 39321), (641, 39261), (701, 39138), (738, 39027), (752, 38997), (774, 38949), (784, 38913), (793, 38898), (845, 38700), (847, 38694), (848, 38691), (866, 38640), (877, 38616), (905, 38523), (993, 38331), (994, 38328), (1015, 38250), (1045, 38160), (1051, 38136), (1059, 38112), (1083, 38052),

Gene: Yecey3_46 Start: 30987, Stop: 29194, Start Num: 228
Candidate Starts for Yecey3_46:
(Start: 228 @30987 has 960 MA's), (235, 30978), (360, 30783), (381, 30747), (384, 30741), (399, 30708), (410, 30678), (424, 30651), (430, 30642), (490, 30498), (570, 30405), (659, 30237), (696, 30159), (764, 30039), (767, 30033), (803, 29910), (830, 29844), (847, 29787), (851, 29775), (855, 29757), (897, 29685), (900, 29676), (992, 29478), (1013, 29418), (1042, 29340), (1066, 29283), (1073, 29271), (1094, 29232),

Gene: Yeezus_55 Start: 36878, Stop: 34710, Start Num: 213
Candidate Starts for Yeezus_55:
(212, 36881), (Start: 213 @36878 has 13 MA's), (251, 36824), (299, 36740), (382, 36587), (387, 36578), (404, 36533), (429, 36455), (432, 36446), (438, 36431), (446, 36416), (447, 36413), (467,

36356), (506, 36263), (520, 36221), (601, 36026), (607, 36014), (609, 36008), (622, 35984), (631, 35963), (646, 35942), (653, 35927), (656, 35921), (689, 35858), (709, 35807), (737, 35720), (763, 35660), (778, 35612), (813, 35510), (815, 35504), (824, 35477), (825, 35474), (835, 35453), (848, 35411), (850, 35405), (856, 35381), (876, 35339), (877, 35336), (888, 35309), (896, 35276), (898, 35264), (914, 35228), (924, 35204), (926, 35198), (929, 35192), (950, 35138), (976, 35090), (977, 35087), (1002, 35027), (1009, 35003), (1015, 34973), (1037, 34919), (1054, 34850), (1059, 34838), (1075, 34799),

Gene: YellowPanda_10 Start: 8474, Stop: 6273, Start Num: 176
Candidate Starts for YellowPanda_10:
(106, 8588), (138, 8525), (Start: 176 @8474 has 7 MA's), (209, 8429), (247, 8372), (304, 8288), (333, 8240), (388, 8138), (395, 8123), (451, 7970), (479, 7901), (508, 7823), (511, 7802), (514, 7790), (645, 7502), (673, 7448), (692, 7400), (711, 7355), (714, 7349), (753, 7265), (778, 7190), (841, 6995), (844, 6983), (857, 6935), (877, 6857), (879, 6848), (910, 6758), (1019, 6485), (1066, 6359), (1073, 6347), (1077, 6338), (1090, 6308),

Gene: YesChef_41 Start: 29651, Stop: 31516, Start Num: 228
Candidate Starts for YesChef_41:
(Start: 228 @29651 has 960 MA's), (261, 29699), (410, 29948), (452, 30038), (572, 30245), (576, 30254), (622, 30344), (626, 30353), (633, 30368), (660, 30413), (686, 30458), (707, 30506), (733, 30563), (768, 30644), (795, 30731), (803, 30764), (815, 30794), (836, 30851), (855, 30917), (867, 30941), (898, 31010), (929, 31082), (932, 31091), (977, 31190), (1009, 31253), (1013, 31277), (1058, 31388), (1066, 31412), (1071, 31421),

Gene: Yeshua_54 Start: 47959, Stop: 46142, Start Num: 225
Candidate Starts for Yeshua_54:
(Start: 225 @47959 has 16 MA's), (Start: 232 @47950 has 2 MA's), (249, 47923), (259, 47911), (274, 47887), (278, 47878), (381, 47704), (411, 47629), (449, 47554), (487, 47476), (552, 47419), (569, 47383), (573, 47371), (583, 47347), (635, 47254), (649, 47230), (658, 47212), (775, 46939), (776, 46936), (797, 46870), (804, 46843), (846, 46735), (848, 46729), (851, 46720), (897, 46630), (900, 46621), (901, 46618), (906, 46603), (939, 46525), (946, 46513), (953, 46492), (981, 46444), (1007, 46396), (1013, 46363), (1024, 46339), (1040, 46300), (1042, 46285), (1059, 46240), (1093, 46168),

Gene: Yinz_58 Start: 53540, Stop: 51720, Start Num: 228
Candidate Starts for Yinz_58:
(110, 53720), (Start: 228 @53540 has 960 MA's), (249, 53507), (366, 53327), (435, 53174), (439, 53162), (452, 53132), (458, 53126), (487, 53063), (489, 53057), (552, 53006), (566, 52979), (569, 52970), (590, 52922), (649, 52817), (694, 52721), (722, 52670), (775, 52526), (787, 52487), (797, 52457), (804, 52430), (810, 52418), (846, 52322), (848, 52316), (851, 52307), (854, 52295), (883, 52223), (900, 52193), (906, 52175), (912, 52166), (939, 52097), (946, 52085), (953, 52064), (992, 51995), (1002, 51980), (1010, 51956), (1013, 51935), (1024, 51911), (1040, 51872), (1043, 51854), (1047, 51842), (1054, 51830), (1059, 51818), (1078, 51776), (1093, 51746),

Gene: YoSam321_45 Start: 31564, Stop: 29738, Start Num: 228
Candidate Starts for YoSam321_45:
(Start: 228 @31564 has 960 MA's), (Start: 241 @31543 has 3 MA's), (263, 31513), (278, 31483), (384, 31321), (394, 31303), (424, 31231), (430, 31222), (480, 31102), (490, 31078), (570, 30985), (592, 30937), (607, 30916), (626, 30877), (696, 30745), (707, 30724), (729, 30679), (733, 30667), (798, 30514), (803, 30493), (847, 30370), (855, 30340), (871, 30301), (900, 30235), (901, 30232), (906, 30217), (919, 30193), (929, 30169), (1013, 29962), (1066, 29827), (1073, 29815), (1079, 29806),

Gene: Yogi_36 Start: 28087, Stop: 26303, Start Num: 228
Candidate Starts for Yogi_36:

(Start: 228 @28087 has 960 MA's), (379, 27853), (396, 27823), (398, 27814), (399, 27811), (415, 27766), (424, 27754), (430, 27745), (448, 27703), (490, 27601), (498, 27580), (570, 27508), (587, 27463), (590, 27460), (617, 27418), (619, 27412), (626, 27397), (643, 27370), (696, 27265), (709, 27238), (729, 27199), (803, 27019), (821, 26971), (855, 26866), (856, 26863), (895, 26806), (900, 26785), (922, 26737), (951, 26662), (990, 26593), (1009, 26551), (1013, 26527), (1042, 26449), (1066, 26392), (1073, 26380), (1100, 26323),

Gene: Yokurt_45 Start: 29422, Stop: 27581, Start Num: 228
Candidate Starts for Yokurt_45:
(Start: 200 @29452 has 1 MA's), (Start: 228 @29422 has 960 MA's), (360, 29218), (399, 29143), (400, 29140), (410, 29113), (415, 29098), (424, 29086), (448, 29035), (485, 28945), (490, 28933), (570, 28840), (585, 28801), (595, 28783), (607, 28768), (643, 28702), (660, 28669), (663, 28666), (710, 28564), (742, 28504), (778, 28420), (803, 28339), (835, 28255), (836, 28252), (840, 28243), (847, 28216), (855, 28186), (895, 28126), (906, 28087), (1009, 27871), (1010, 27868), (1013, 27847), (1066, 27712), (1073, 27700), (1079, 27691), (1082, 27688), (1115, 27595),

Gene: Yoncess_36 Start: 28088, Stop: 26304, Start Num: 228
Candidate Starts for Yoncess_36:
(Start: 228 @28088 has 960 MA's), (379, 27854), (396, 27824), (398, 27815), (399, 27812), (415, 27767), (424, 27755), (448, 27704), (490, 27602), (498, 27581), (570, 27509), (587, 27464), (590, 27461), (617, 27419), (619, 27413), (621, 27410), (626, 27398), (643, 27371), (677, 27317), (696, 27266), (709, 27239), (729, 27200), (803, 27020), (821, 26972), (855, 26867), (856, 26864), (895, 26807), (900, 26786), (922, 26738), (951, 26663), (990, 26594), (1009, 26552), (1013, 26528), (1042, 26450), (1066, 26393), (1073, 26381), (1100, 26324),

Gene: Yoshand_62 Start: 54312, Stop: 52453, Start Num: 190
Candidate Starts for Yoshand_62:
(Start: 173 @54336 has 3 MA's), (Start: 190 @54312 has 336 MA's), (Start: 222 @54288 has 3 MA's), (Start: 232 @54282 has 2 MA's), (261, 54240), (274, 54219), (336, 54105), (339, 54099), (355, 54069), (390, 54009), (398, 53988), (416, 53934), (429, 53922), (436, 53904), (440, 53892), (487, 53787), (552, 53730), (569, 53694), (573, 53682), (583, 53658), (590, 53646), (601, 53628), (611, 53610), (622, 53592), (643, 53553), (648, 53544), (649, 53541), (651, 53538), (796, 53181), (804, 53148), (812, 53127), (848, 53034), (851, 53025), (877, 52962), (900, 52926), (901, 52923), (906, 52908), (939, 52830), (946, 52818), (953, 52797), (976, 52758), (1013, 52668), (1022, 52650), (1024, 52644), (1032, 52629), (1040, 52605), (1042, 52590), (1043, 52587), (1047, 52575), (1059, 52551), (1082, 52503), (1093, 52479),

Gene: YouGoGlencoco_61 Start: 54264, Stop: 52405, Start Num: 190
Candidate Starts for YouGoGlencoco_61:
(Start: 173 @54288 has 3 MA's), (Start: 190 @54264 has 336 MA's), (Start: 222 @54240 has 3 MA's), (Start: 232 @54234 has 2 MA's), (261, 54192), (274, 54171), (336, 54057), (339, 54051), (355, 54021), (390, 53961), (398, 53940), (416, 53886), (429, 53874), (436, 53856), (440, 53844), (487, 53739), (552, 53682), (569, 53646), (573, 53634), (585, 53607), (601, 53580), (611, 53562), (622, 53544), (643, 53505), (648, 53496), (649, 53493), (761, 53235), (796, 53133), (804, 53100), (812, 53079), (848, 52986), (851, 52977), (877, 52914), (900, 52878), (901, 52875), (906, 52860), (939, 52782), (946, 52770), (953, 52749), (976, 52710), (1013, 52620), (1022, 52602), (1024, 52596), (1032, 52581), (1040, 52557), (1042, 52542), (1043, 52539), (1047, 52527), (1059, 52503), (1082, 52455), (1093, 52431),

Gene: YuuY_37 Start: 29162, Stop: 27261, Start Num: 296
Candidate Starts for YuuY_37:
(Start: 296 @29162 has 13 MA's), (369, 29024), (378, 29009), (382, 29003), (396, 28976), (402, 28952), (415, 28916), (439, 28874), (442, 28868), (460, 28817), (474, 28778), (502, 28718), (560,

28649), (582, 28592), (586, 28583), (590, 28571), (607, 28541), (624, 28505), (706, 28337), (726, 28292), (770, 28181), (843, 27956), (845, 27950), (848, 27941), (855, 27914), (908, 27785), (926, 27734), (1010, 27527), (1013, 27503), (1025, 27470), (1028, 27464), (1068, 27359),

Gene: Zada_39 Start: 28906, Stop: 27041, Start Num: 301
Candidate Starts for Zada_39:
(Start: 241 @28993 has 3 MA's), (Start: 243 @28990 has 1 MA's), (Start: 301 @28906 has 153 MA's), (Start: 305 @28897 has 5 MA's), (353, 28792), (360, 28783), (378, 28753), (380, 28750), (435, 28630), (439, 28618), (442, 28612), (483, 28507), (494, 28480), (582, 28339), (585, 28333), (586, 28330), (590, 28318), (606, 28291), (607, 28288), (614, 28273), (618, 28267), (621, 28261), (638, 28228), (701, 28099), (726, 28039), (847, 27724), (850, 27715), (851, 27712), (855, 27694), (873, 27652), (877, 27646), (879, 27637), (888, 27622), (908, 27565), (974, 27406), (989, 27376), (992, 27367), (1010, 27307), (1013, 27283), (1028, 27244), (1040, 27211), (1044, 27199), (1068, 27139),

Gene: Zaider_61 Start: 54505, Stop: 52646, Start Num: 190
Candidate Starts for Zaider_61:
(Start: 173 @54529 has 3 MA's), (Start: 190 @54505 has 336 MA's), (Start: 222 @54481 has 3 MA's), (Start: 232 @54475 has 2 MA's), (261, 54433), (274, 54412), (336, 54298), (339, 54292), (355, 54262), (390, 54202), (398, 54181), (416, 54127), (429, 54115), (436, 54097), (440, 54085), (487, 53980), (552, 53923), (569, 53887), (573, 53875), (583, 53851), (590, 53839), (601, 53821), (611, 53803), (622, 53785), (643, 53746), (648, 53737), (649, 53734), (651, 53731), (796, 53374), (804, 53341), (812, 53320), (848, 53227), (851, 53218), (877, 53155), (900, 53119), (901, 53116), (906, 53101), (939, 53023), (946, 53011), (953, 52990), (976, 52951), (1013, 52861), (1022, 52843), (1024, 52837), (1032, 52822), (1040, 52798), (1042, 52783), (1043, 52780), (1047, 52768), (1059, 52744), (1082, 52696), (1093, 52672),

Gene: Zaka_45 Start: 29422, Stop: 27581, Start Num: 228
Candidate Starts for Zaka_45:
(Start: 200 @29452 has 1 MA's), (Start: 228 @29422 has 960 MA's), (360, 29218), (399, 29143), (400, 29140), (410, 29113), (415, 29098), (424, 29086), (448, 29035), (485, 28945), (490, 28933), (570, 28840), (585, 28801), (595, 28783), (607, 28768), (643, 28702), (660, 28669), (663, 28666), (710, 28564), (742, 28504), (778, 28420), (803, 28339), (835, 28255), (836, 28252), (840, 28243), (847, 28216), (855, 28186), (895, 28126), (906, 28087), (1009, 27871), (1010, 27868), (1013, 27847), (1066, 27712), (1073, 27700), (1079, 27691), (1082, 27688), (1115, 27595),

Gene: Zarafa_45 Start: 31444, Stop: 29606, Start Num: 228
Candidate Starts for Zarafa_45:
(171, 31516), (Start: 228 @31444 has 960 MA's), (263, 31393), (360, 31240), (396, 31180), (399, 31168), (424, 31111), (430, 31102), (435, 31090), (480, 30982), (490, 30958), (570, 30862), (592, 30814), (626, 30754), (663, 30691), (696, 30622), (707, 30601), (742, 30532), (746, 30526), (767, 30487), (803, 30364), (836, 30277), (847, 30241), (855, 30211), (869, 30181), (901, 30100), (919, 30061), (929, 30037), (935, 30019), (992, 29890), (1013, 29830), (1066, 29695), (1073, 29683), (1079, 29674),

Gene: Zayuliv_37 Start: 27590, Stop: 25725, Start Num: 301
Candidate Starts for Zayuliv_37:
(Start: 301 @27590 has 153 MA's), (304, 27584), (349, 27485), (353, 27476), (369, 27452), (378, 27437), (382, 27431), (402, 27380), (404, 27377), (442, 27296), (502, 27146), (533, 27143), (574, 27044), (585, 27017), (586, 27014), (590, 27002), (607, 26972), (618, 26951), (636, 26915), (706, 26768), (777, 26588), (847, 26408), (855, 26378), (878, 26324), (889, 26306), (908, 26249), (917, 26222), (933, 26180), (989, 26060), (992, 26051), (1010, 25991), (1013, 25967), (1017, 25955), (1020, 25946), (1028, 25928), (1040, 25895), (1068, 25823),

Gene: Zeeculate_43 Start: 34848, Stop: 33013, Start Num: 228
Candidate Starts for Zeeculate_43:
(Start: 228 @34848 has 960 MA's), (342, 34677), (373, 34620), (410, 34542), (418, 34521), (424, 34515), (430, 34506), (465, 34413), (479, 34389), (490, 34362), (570, 34269), (576, 34254), (590, 34221), (621, 34170), (622, 34167), (659, 34101), (680, 34071), (690, 34041), (709, 33996), (729, 33957), (803, 33777), (815, 33747), (821, 33729), (836, 33690), (855, 33624), (900, 33543), (901, 33540), (935, 33459), (1009, 33309), (1010, 33306), (1018, 33270), (1032, 33246), (1039, 33225), (1066, 33150), (1079, 33129),

Gene: Zelda_61 Start: 54666, Stop: 52807, Start Num: 190
Candidate Starts for Zelda_61:
(Start: 173 @54690 has 3 MA's), (Start: 190 @54666 has 336 MA's), (Start: 222 @54642 has 3 MA's), (Start: 232 @54636 has 2 MA's), (261, 54594), (274, 54573), (336, 54459), (339, 54453), (355, 54423), (390, 54363), (398, 54342), (416, 54288), (429, 54276), (436, 54258), (440, 54246), (487, 54141), (552, 54084), (569, 54048), (573, 54036), (585, 54009), (611, 53964), (643, 53907), (648, 53898), (649, 53895), (796, 53535), (804, 53502), (812, 53481), (848, 53388), (851, 53379), (877, 53316), (900, 53280), (901, 53277), (906, 53262), (939, 53184), (946, 53172), (953, 53151), (976, 53112), (1013, 53022), (1022, 53004), (1024, 52998), (1032, 52983), (1040, 52959), (1042, 52944), (1043, 52941), (1047, 52929), (1059, 52905), (1082, 52857), (1093, 52833),

Gene: Zemanar_54 Start: 53874, Stop: 52054, Start Num: 186
Candidate Starts for Zemanar_54:
(Start: 163 @53892 has 29 MA's), (Start: 186 @53874 has 1 MA's), (Start: 232 @53850 has 2 MA's), (249, 53823), (261, 53808), (307, 53736), (309, 53730), (384, 53601), (390, 53592), (391, 53589), (399, 53568), (406, 53544), (426, 53508), (430, 53502), (440, 53478), (442, 53475), (449, 53460), (452, 53451), (457, 53448), (552, 53325), (560, 53307), (569, 53289), (573, 53277), (585, 53250), (648, 53139), (649, 53136), (658, 53118), (664, 53106), (686, 53064), (691, 53052), (722, 52989), (775, 52845), (776, 52842), (787, 52806), (796, 52782), (797, 52776), (804, 52749), (848, 52635), (851, 52626), (897, 52536), (900, 52527), (906, 52509), (939, 52431), (946, 52419), (953, 52398), (960, 52380), (976, 52359), (992, 52329), (1013, 52269), (1022, 52251), (1024, 52245), (1040, 52206), (1042, 52191), (1043, 52188), (1047, 52176), (1059, 52152), (1078, 52110), (1082, 52104), (1083, 52101), (1093, 52080),

Gene: Zenitsu_38 Start: 28753, Stop: 26888, Start Num: 301
Candidate Starts for Zenitsu_38:
(Start: 301 @28753 has 153 MA's), (346, 28654), (382, 28594), (402, 28543), (439, 28465), (442, 28459), (458, 28414), (459, 28411), (460, 28408), (474, 28369), (502, 28309), (582, 28186), (586, 28177), (590, 28165), (597, 28153), (607, 28135), (618, 28114), (623, 28102), (706, 27931), (773, 27763), (840, 27598), (850, 27562), (855, 27541), (873, 27499), (908, 27412), (924, 27367), (965, 27268), (989, 27223), (1010, 27154), (1013, 27130), (1025, 27097), (1068, 26986),

Gene: Zenteno07_62 Start: 54178, Stop: 52334, Start Num: 215
Candidate Starts for Zenteno07_62:
(Start: 215 @54178 has 12 MA's), (261, 54121), (Start: 276 @54094 has 2 MA's), (303, 54058), (339, 53992), (390, 53905), (399, 53881), (409, 53851), (416, 53830), (435, 53806), (440, 53791), (487, 53686), (569, 53593), (573, 53581), (590, 53545), (649, 53440), (722, 53293), (750, 53209), (753, 53203), (775, 53143), (776, 53140), (787, 53104), (796, 53080), (804, 53047), (848, 52933), (851, 52924), (900, 52810), (906, 52792), (939, 52714), (946, 52702), (953, 52681), (992, 52612), (1002, 52597), (1013, 52552), (1024, 52528), (1040, 52489), (1042, 52474), (1047, 52459), (1059, 52435), (1078, 52390), (1082, 52384), (1093, 52360),

Gene: Zephyr_44 Start: 34559, Stop: 32733, Start Num: 228
Candidate Starts for Zephyr_44:

(Start: 228 @34559 has 960 MA's), (342, 34388), (366, 34346), (373, 34331), (399, 34283), (410, 34253), (418, 34232), (424, 34226), (430, 34217), (479, 34100), (490, 34073), (570, 33980), (576, 33965), (621, 33881), (622, 33878), (659, 33812), (680, 33782), (690, 33752), (709, 33707), (729, 33668), (803, 33488), (815, 33458), (821, 33440), (836, 33401), (855, 33335), (900, 33254), (901, 33251), (935, 33170), (1009, 33020), (1010, 33017), (1018, 32981), (1032, 32957), (1035, 32948), (1039, 32936), (1066, 32861), (1079, 32840),

Gene: Zepp_38 Start: 27049, Stop: 25184, Start Num: 301
Candidate Starts for Zepp_38:
(Start: 301 @27049 has 153 MA's), (304, 27043), (349, 26944), (353, 26935), (369, 26911), (378, 26896), (382, 26890), (402, 26839), (404, 26836), (442, 26755), (463, 26695), (502, 26605), (533, 26602), (574, 26503), (585, 26476), (586, 26473), (590, 26461), (607, 26431), (618, 26410), (636, 26374), (706, 26227), (777, 26047), (847, 25867), (855, 25837), (878, 25783), (889, 25765), (908, 25708), (917, 25681), (933, 25639), (989, 25519), (992, 25510), (1010, 25450), (1013, 25426), (1017, 25414), (1020, 25405), (1028, 25387), (1040, 25354), (1068, 25282),

Gene: Zeta1847_40 Start: 29119, Stop: 31065, Start Num: 227
Candidate Starts for Zeta1847_40:
(121, 28978), (133, 29005), (169, 29059), (Start: 172 @29062 has 7 MA's), (Start: 227 @29119 has 33 MA's), (261, 29167), (303, 29227), (337, 29284), (343, 29293), (360, 29323), (397, 29380), (400, 29389), (435, 29464), (489, 29593), (565, 29692), (572, 29713), (619, 29806), (626, 29821), (633, 29836), (707, 29974), (736, 30040), (767, 30112), (803, 30235), (812, 30256), (845, 30352), (847, 30358), (879, 30442), (906, 30505), (919, 30529), (926, 30547), (936, 30574), (989, 30679), (1010, 30727), (1032, 30787), (1066, 30883), (1090, 30928),

Gene: Zetzy_47 Start: 31416, Stop: 29602, Start Num: 228
Candidate Starts for Zetzy_47:
(Start: 228 @31416 has 960 MA's), (257, 31377), (263, 31365), (360, 31212), (369, 31197), (399, 31140), (424, 31083), (430, 31074), (448, 31032), (465, 30981), (490, 30930), (570, 30837), (590, 30789), (595, 30780), (607, 30765), (626, 30726), (643, 30699), (659, 30669), (696, 30591), (703, 30576), (732, 30516), (742, 30501), (803, 30345), (835, 30261), (836, 30258), (855, 30192), (871, 30153), (901, 30081), (919, 30042), (929, 30018), (935, 30000), (949, 29967), (958, 29940), (992, 29886), (1013, 29826), (1066, 29691), (1073, 29679), (1079, 29670),

Gene: Zeuska_44 Start: 34791, Stop: 32962, Start Num: 228
Candidate Starts for Zeuska_44:
(Start: 228 @34791 has 960 MA's), (366, 34578), (373, 34563), (399, 34515), (410, 34485), (418, 34464), (424, 34458), (430, 34449), (479, 34332), (490, 34305), (570, 34212), (576, 34197), (590, 34164), (621, 34113), (622, 34110), (659, 34044), (680, 34014), (690, 33984), (709, 33939), (729, 33900), (803, 33720), (821, 33672), (840, 33624), (851, 33585), (855, 33567), (871, 33528), (895, 33507), (900, 33486), (905, 33471), (955, 33348), (1036, 33177), (1041, 33153), (1062, 33105), (1066, 33093), (1079, 33072), (1083, 33066), (1102, 33018), (1109, 33003),

Gene: Zhengyi_10 Start: 8417, Stop: 6180, Start Num: 163
Candidate Starts for Zhengyi_10:
(Start: 163 @8417 has 29 MA's), (Start: 225 @8336 has 16 MA's), (247, 8303), (Start: 285 @8252 has 1 MA's), (291, 8243), (325, 8171), (365, 8090), (388, 8045), (395, 8030), (433, 7916), (451, 7877), (508, 7730), (511, 7709), (515, 7694), (556, 7553), (645, 7409), (673, 7355), (692, 7307), (714, 7256), (753, 7172), (773, 7115), (802, 7016), (844, 6890), (857, 6842), (858, 6839), (869, 6791), (879, 6755), (910, 6665), (947, 6581), (970, 6530), (972, 6527), (1019, 6392), (1026, 6374), (1035, 6353), (1043, 6320), (1053, 6305), (1066, 6266), (1073, 6254),

Gene: Zimmer_42 Start: 32129, Stop: 30285, Start Num: 228

Candidate Starts for Zimmer_42:
(126, 32273), (142, 32246), (Start: 228 @32129 has 960 MA's), (317, 31991), (343, 31955), (360, 31925), (384, 31883), (400, 31847), (418, 31799), (424, 31793), (435, 31772), (485, 31652), (490, 31640), (570, 31547), (573, 31538), (590, 31499), (595, 31490), (607, 31475), (643, 31409), (670, 31361), (701, 31292), (742, 31211), (766, 31169), (778, 31124), (787, 31097), (803, 31043), (823, 30992), (836, 30956), (855, 30890), (871, 30851), (895, 30830), (900, 30809), (949, 30692), (982, 30629), (1009, 30575), (1010, 30572), (1013, 30551), (1038, 30494), (1042, 30473), (1066, 30416), (1073, 30404), (1100, 30347),

Gene: Zolita_39 Start: 31121, Stop: 29256, Start Num: 228
Candidate Starts for Zolita_39:
(Start: 228 @31121 has 960 MA's), (263, 31070), (304, 31010), (343, 30947), (360, 30917), (362, 30914), (396, 30857), (410, 30815), (424, 30788), (490, 30635), (570, 30539), (582, 30506), (590, 30491), (637, 30407), (643, 30401), (660, 30368), (703, 30281), (709, 30269), (729, 30230), (761, 30170), (803, 30035), (815, 30005), (821, 29987), (835, 29951), (836, 29948), (855, 29882), (871, 29843), (900, 29801), (906, 29783), (929, 29735), (931, 29729), (949, 29684), (977, 29630), (982, 29621), (992, 29603), (1022, 29525), (1041, 29468), (1058, 29432), (1066, 29408), (1073, 29396), (1123, 29264),

Gene: Zonia_62 Start: 54586, Stop: 52727, Start Num: 190
Candidate Starts for Zonia_62:
(Start: 173 @54610 has 3 MA's), (Start: 190 @54586 has 336 MA's), (Start: 222 @54562 has 3 MA's), (Start: 232 @54556 has 2 MA's), (261, 54514), (274, 54493), (336, 54379), (339, 54373), (355, 54343), (390, 54283), (398, 54262), (416, 54208), (429, 54196), (436, 54178), (440, 54166), (487, 54061), (552, 54004), (569, 53968), (573, 53956), (585, 53929), (611, 53884), (643, 53827), (648, 53818), (649, 53815), (761, 53557), (796, 53455), (804, 53422), (812, 53401), (848, 53308), (851, 53299), (877, 53236), (900, 53200), (901, 53197), (906, 53182), (939, 53104), (946, 53092), (953, 53071), (976, 53032), (1013, 52942), (1022, 52924), (1024, 52918), (1032, 52903), (1040, 52879), (1042, 52864), (1043, 52861), (1047, 52849), (1059, 52825), (1066, 52804), (1082, 52777), (1093, 52753), (1098, 52738),

Gene: Zooman_100 Start: 78594, Stop: 76723, Start Num: 223
Candidate Starts for Zooman_100:
(Start: 177 @78654 has 1 MA's), (180, 78648), (199, 78624), (206, 78615), (Start: 215 @78606 has 12 MA's), (Start: 223 @78594 has 3 MA's), (342, 78393), (381, 78333), (390, 78318), (439, 78210), (442, 78204), (488, 78111), (494, 78093), (544, 78066), (573, 78018), (613, 77934), (626, 77907), (660, 77847), (682, 77814), (697, 77772), (729, 77709), (744, 77682), (755, 77661), (803, 77520), (822, 77469), (843, 77406), (869, 77322), (877, 77307), (879, 77298), (915, 77211), (919, 77202), (932, 77169), (1002, 77013), (1036, 76917), (1042, 76890), (1049, 76869), (1066, 76833),

Gene: Zulu_46 Start: 29773, Stop: 27932, Start Num: 228
Candidate Starts for Zulu_46:
(Start: 200 @29803 has 1 MA's), (Start: 228 @29773 has 960 MA's), (360, 29569), (399, 29494), (400, 29491), (410, 29464), (415, 29449), (424, 29437), (448, 29386), (485, 29296), (490, 29284), (570, 29191), (585, 29152), (595, 29134), (607, 29119), (643, 29053), (660, 29020), (663, 29017), (710, 28915), (742, 28855), (778, 28771), (803, 28690), (835, 28606), (836, 28603), (840, 28594), (847, 28567), (855, 28537), (895, 28477), (906, 28438), (1009, 28222), (1010, 28219), (1013, 28198), (1066, 28063), (1073, 28051), (1079, 28042), (1082, 28039), (1115, 27946),

Gene: phiBT1_11 Start: 28224, Stop: 30098, Start Num: 228
Candidate Starts for phiBT1_11:
(Start: 228 @28224 has 960 MA's), (278, 28305), (307, 28338), (360, 28425), (405, 28512), (410, 28527), (418, 28548), (430, 28563), (489, 28704), (566, 28785), (572, 28803), (599, 28860), (621,

28902), (626, 28914), (635, 28932), (658, 28968), (696, 29046), (702, 29058), (707, 29067), (729, 29112), (733, 29124), (738, 29136), (775, 29232), (789, 29274), (803, 29325), (821, 29376), (845, 29448), (847, 29454), (848, 29457), (851, 29466), (855, 29484), (870, 29550), (897, 29604), (975, 29781), (977, 29787), (1002, 29829), (1007, 29841), (1013, 29874), (1018, 29889), (1024, 29898), (1036, 29925), (1042, 29952), (1066, 30009), (1069, 30015), (1079, 30030),

Gene: phiSASD1_12 Start: 28284, Stop: 30140, Start Num: 228
Candidate Starts for phiSASD1_12:
(Start: 228 @28284 has 960 MA's), (261, 28332), (263, 28335), (379, 28530), (429, 28638), (454, 28701), (572, 28881), (599, 28938), (617, 28971), (626, 28992), (686, 29097), (729, 29190), (736, 29208), (784, 29343), (798, 29382), (803, 29403), (806, 29409), (821, 29451), (836, 29490), (838, 29493), (843, 29514), (847, 29526), (848, 29529), (855, 29556), (879, 29610), (919, 29697), (936, 29742), (973, 29820), (1024, 29940), (1041, 29991), (1066, 30051),