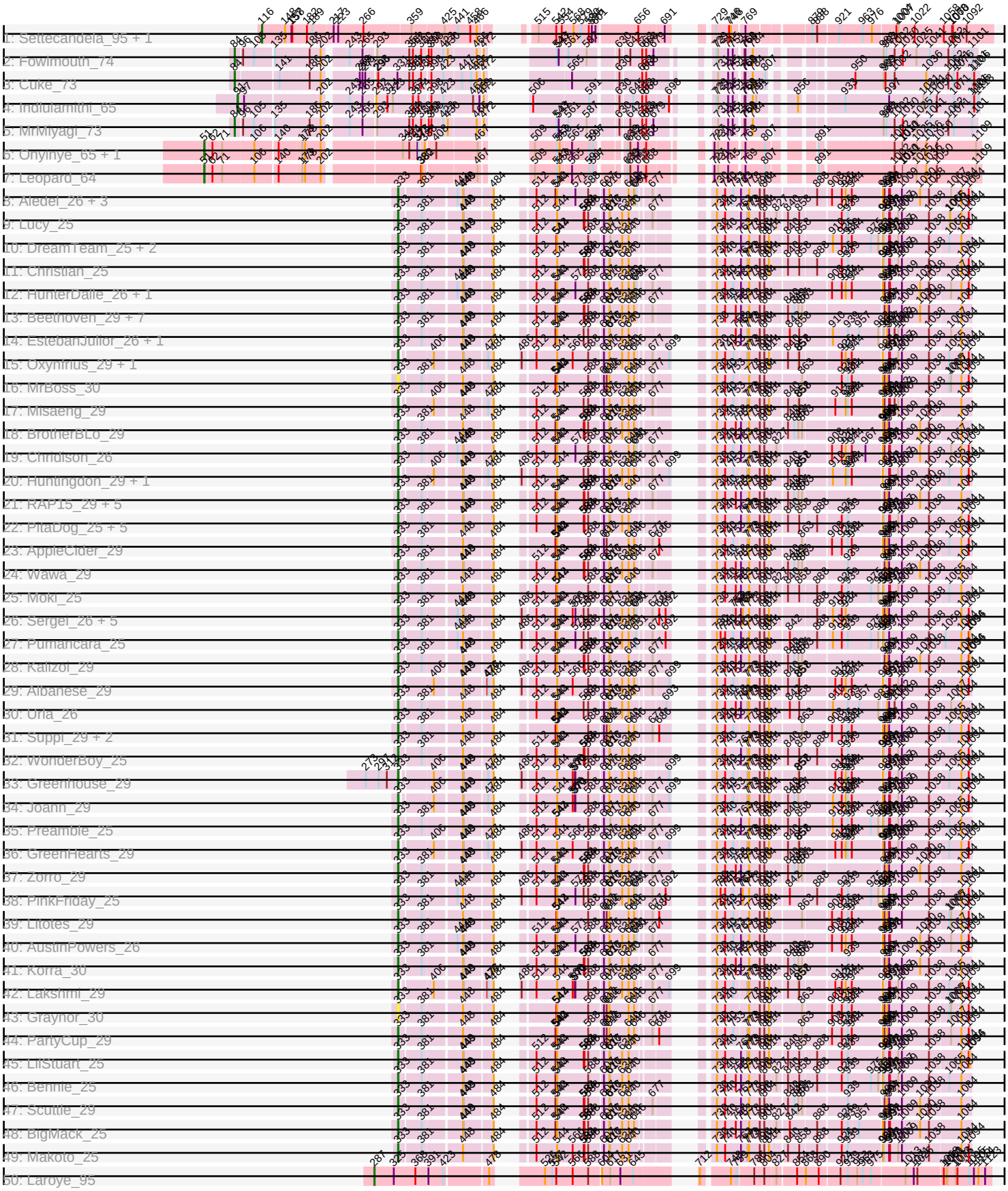
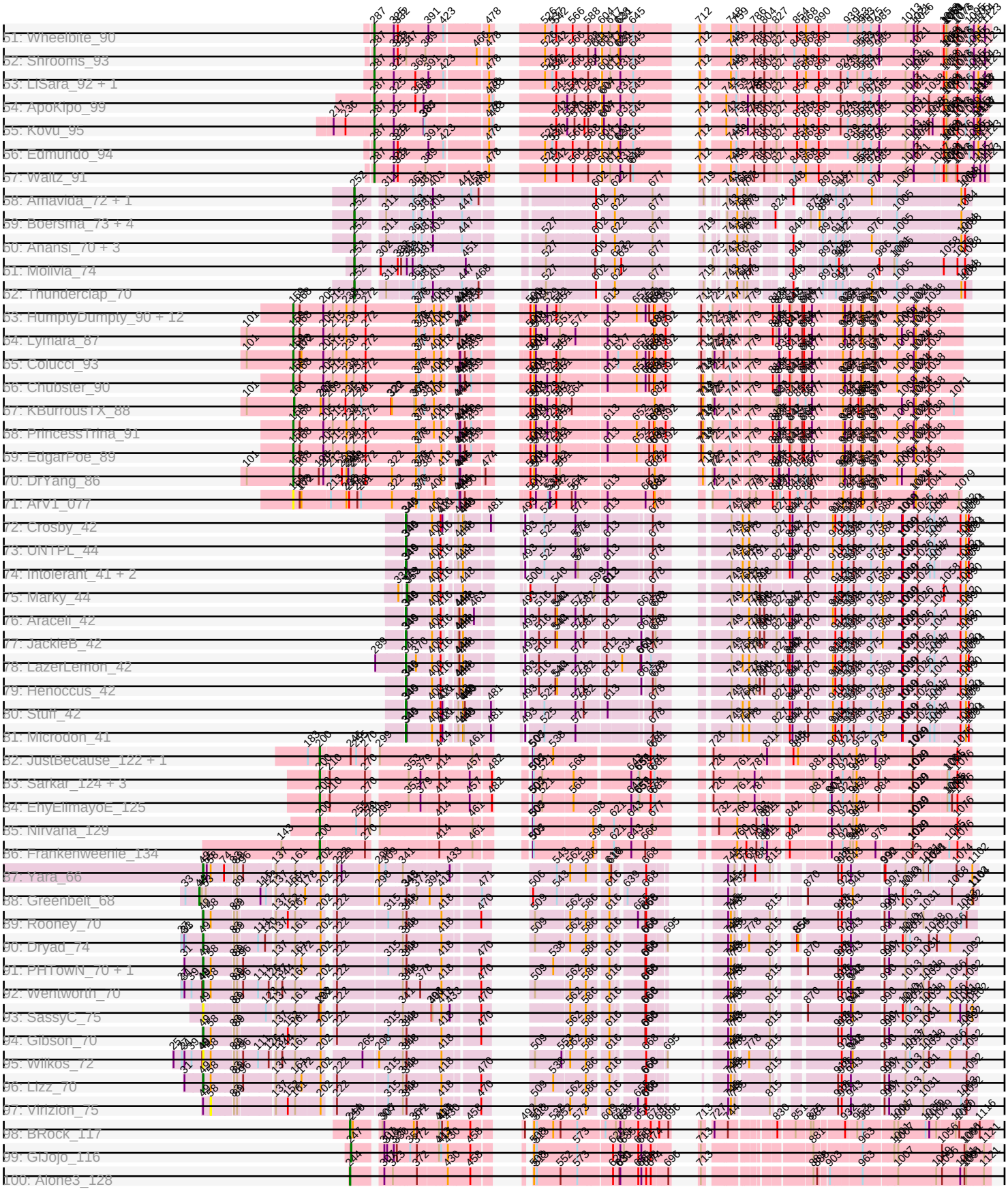
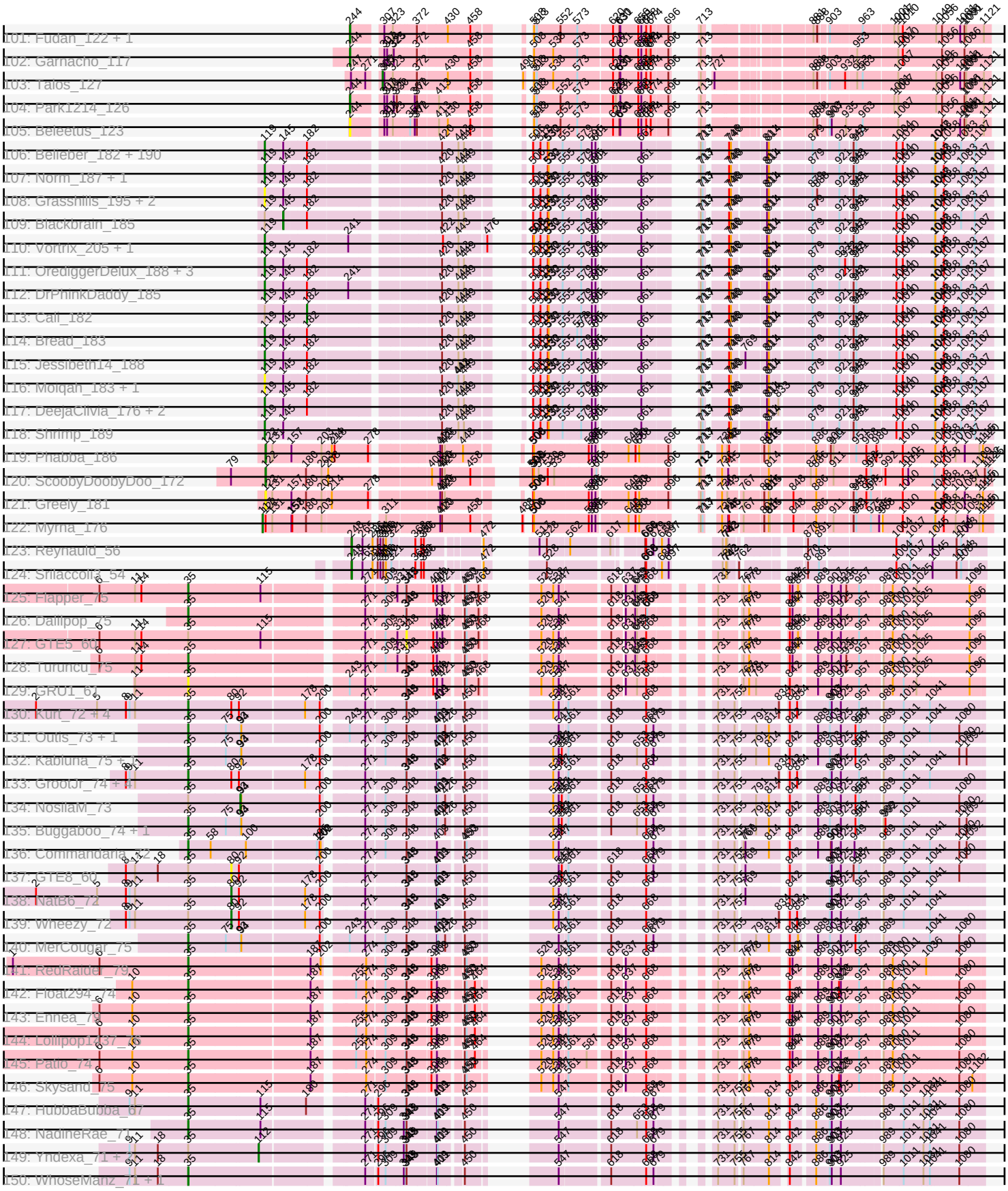
Pham 347019



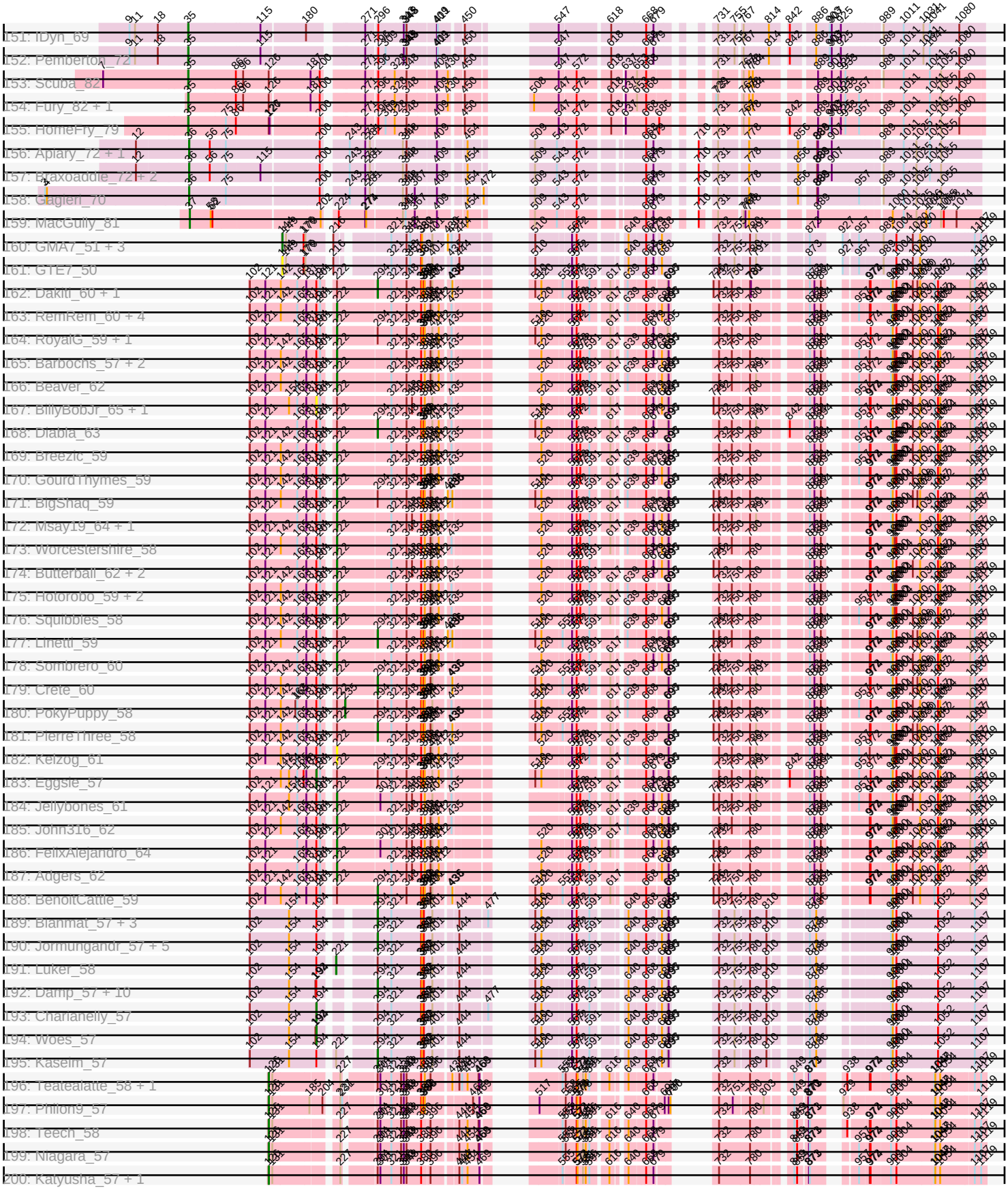
Pham 347019


51: Wheelbite_90
52: Shrooms_93
53: LilSara_92 + 1
54: ApoKipo_99
55: Kovu_95
56: Edmundo_94
57: Waltz_91
58: Amavida_72 + 1
59: Boersma_73 + 4
60: Anansi_70 + 3
61: Mollvia_74
62: Thunderclap_70
63: HumptyDumpty_90 + 12
64: Lymara_87
65: Colucci_93
66: Chubster_90
67: KBurrousTX_88
68: PrincessTrina_91
69: EdgarPoe_89
70: DrYang_86
71: Arv1_077
72: Crosby_42
73: UNTPL_44
74: Intolerant_41 + 2
75: Marky_44
76: Araceli_42
77: JackieB_42
78: LazerLemon_42
79: Henoccus_42
80: Stuff_42
81: Microdon_41
82: JustBecause_122 + 1
83: Sarkar_124 + 3
84: EhyElimayoE_125
85: Nirvana_129
86: Frankenweenie_134
87: Yara_66
88: Greenbelt_68
89: Rooney_70
90: Dryad_74
91: PHTrowN_70 + 1
92: Wentworth_70
93: SassyC_75
94: Gibson_70
95: Wilkos_72
96: Lizz_70
97: Vinzion_75
98: BRock_117
99: GiJojo_116
100: Alone3_128

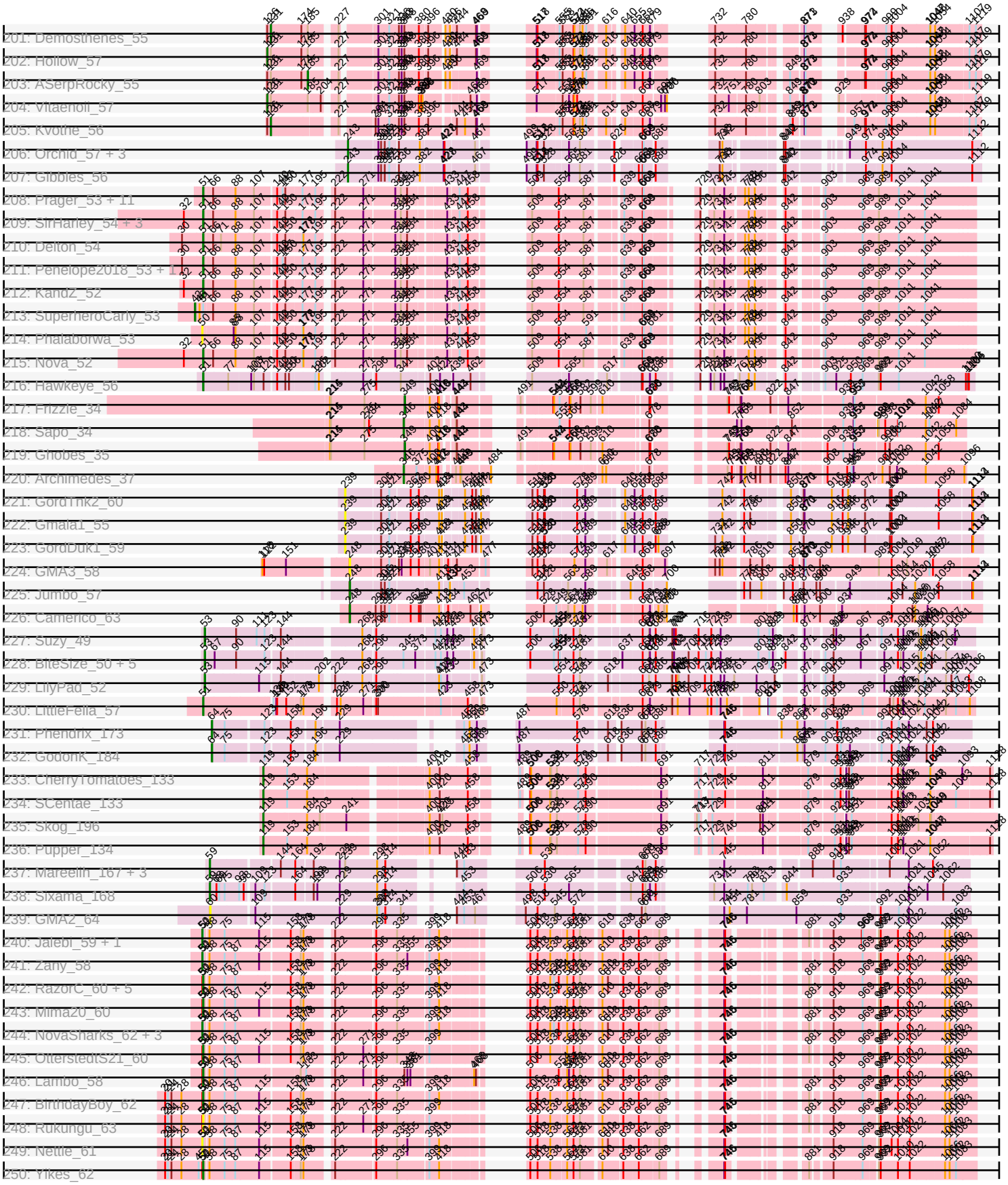
Pham 347019



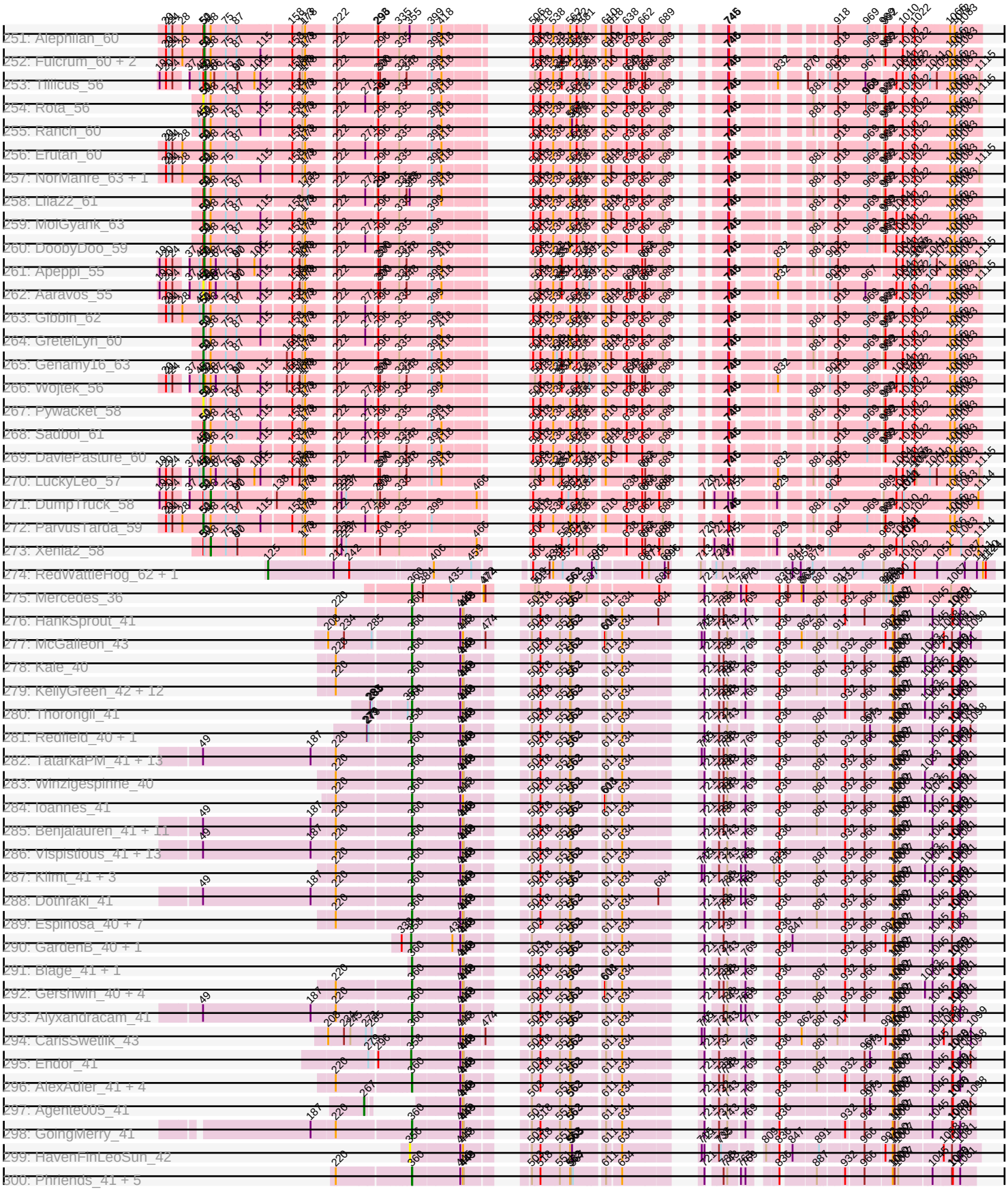
Pham 347019



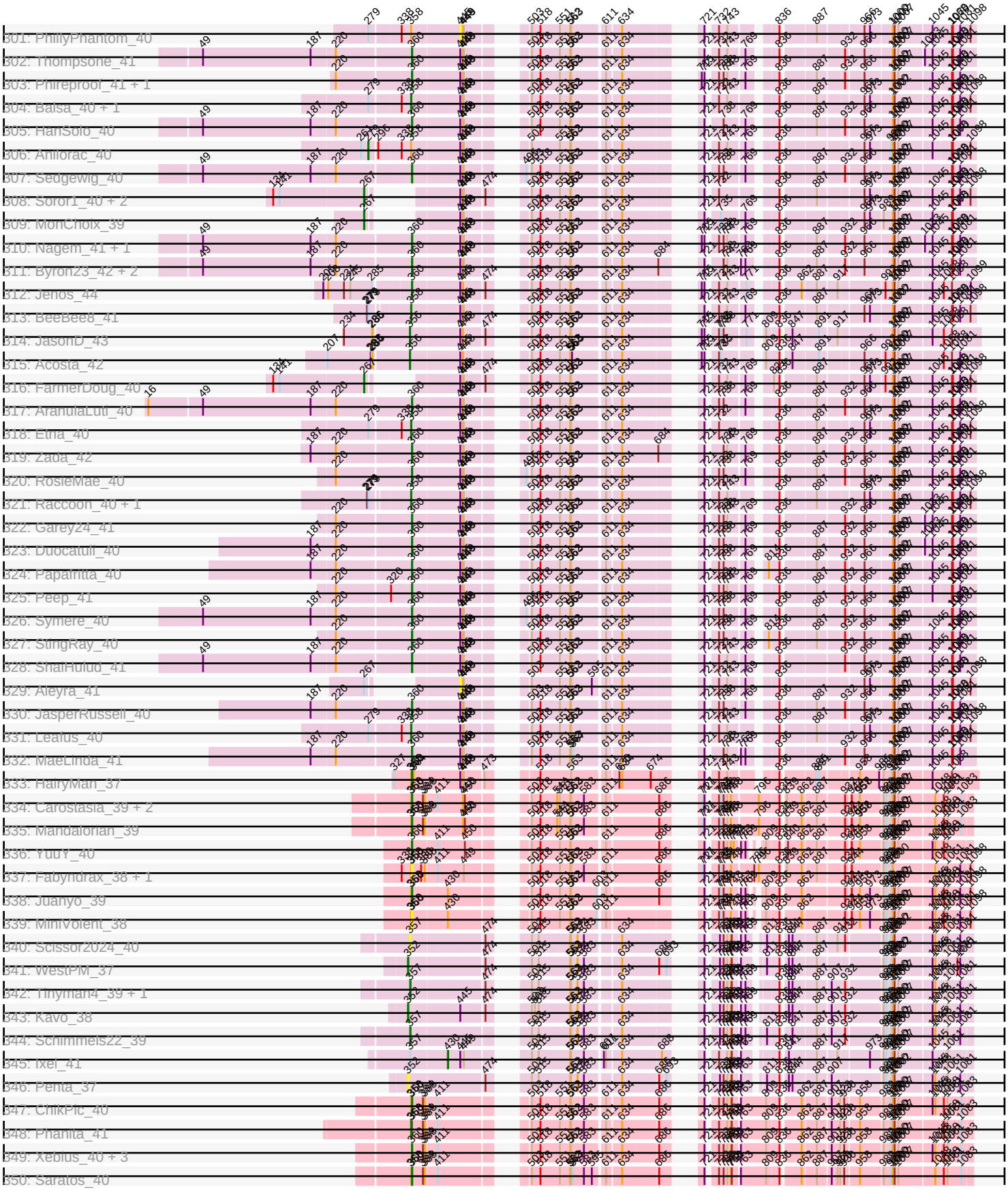
Pham 347019


201: Demosthenes_55
202: Hollow_57
203: ASerpRocky_55
204: Vitaeholi_57
205: Kvothe_56
206: Orchid_57 + 3
207: Gibbles_56
208: Prager_53 + 11
209: SirHarley_54 + 3
210: Delton_54
211: Penelope2018_53 + 1
212: KandZ_52
213: SuperheroCarly_53
214: Phalaborwa_53
215: Nova_52
216: Hawkeye_56
217: Frizzle_34
218: Sapo_34
219: Ghobes_35
220: Archimedes_37
221: GordTnk2_60
222: Gmala1_55
223: GordDuk1_59
224: GMA3_58
225: Jumbo_57
226: Camerico_63
227: Suzy_49
228: BiteSize_50 + 5
229: LilyPad_52
230: LittleFella_57
231: Phendrix_173
232: GoddonK_184
233: CherryTomatoes_133
234: SCentae_133
235: Skog_196
236: Pupper_134
237: Mareelin_167 + 3
238: Sixama_168
239: GMA2_64
240: Jalebi_59 + 1
241: Zany_58
242: RazorC_60 + 5
243: Mima20_60
244: NovaSharks_62 + 3
245: OtterstedtS21_60
246: Lambo_58
247: BirthdayBoy_62
248: Rukungu_63
249: Nettie_61
250: Yikes_62

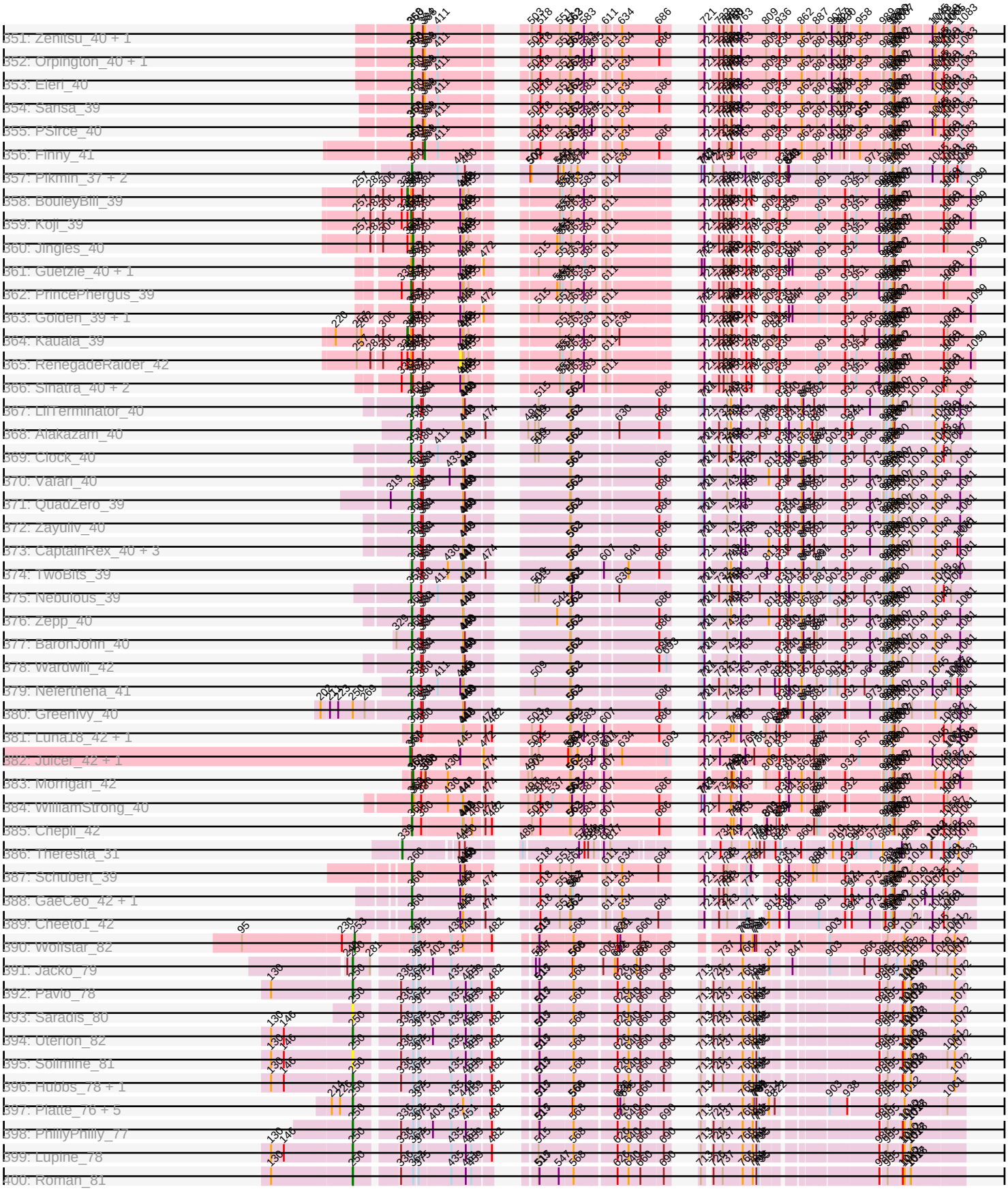
Pham 347019


251: Alephian_60
252: Fulcrum_60 + 2
253: Tillicus_56
254: Rota_56
255: Ranch_60
256: Erutan_60
257: NorManre_63 + 1
258: Lila22_61
259: MolGyank_63
260: DoobyDoo_59
261: Apeppi_55
262: Aaravos_55
263: Globin_62
264: GretelLyn_60
265: Genamy16_63
266: Wojtek_56
267: Pywacket_58
268: Sadbot_61
269: DaviePasture_60
270: LuckyLeo_57
271: DumpTruck_58
272: ParvusTarda_59
273: Xenia2_58
274: RedWattleHog_62 + 1
275: Mercedes_36
276: HankSprout_41
277: McGalleon_43
278: Kale_40
279: KellyGreen_42 + 12
280: Thorongil_41
281: Redfield_40 + 1
282: TatarkaPM_41 + 13
283: Winzigespinne_40
284: Ioannes_41
285: Benjalauren_41 + 11
286: Vispistious_41 + 13
287: Klimt_41 + 3
288: Dothraki_41
289: Espinosa_40 + 7
290: GardenB_40 + 1
291: Blage_41 + 1
292: Gershwin_40 + 4
293: Alyxandracam_41
294: CarisSwetlik_43
295: Endor_41
296: AlexAdler_41 + 4
297: Agente005_41
298: GoingMerry_41
299: HavenFinLeoSun_42
300: Phriends_41 + 5

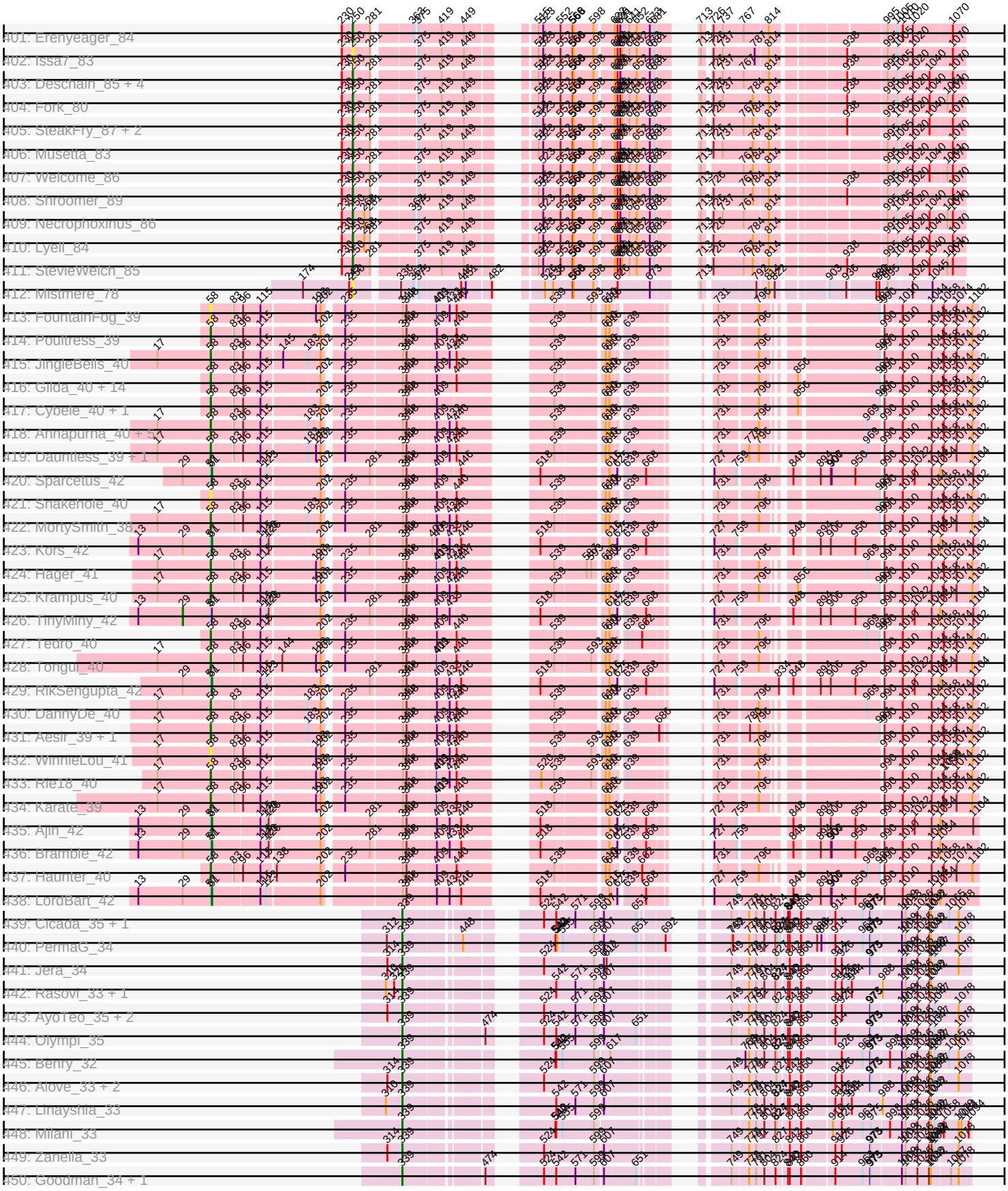
Pham 347019


301: PhillyPhantom_40
302: Thompsone_41
303: Phireproof_41 + 1
304: Balsa_40 + 1
305: HanSolo_40
306: Anilorac_40
307: Sedgewig_40
308: Soror1_40 + 2
309: MonChoix_39
310: Nagem_41 + 1
311: Byron23_42 + 2
312: Jenos_44
313: BeeBee8_41
314: JasonD_43
315: Acosta_42
316: FarmerDoug_40
317: AraniaLuti_40
318: Etna_40
319: Zada_42
320: RosieMae_40
321: Raccoon_40 + 1
322: Garey24_41
323: Duocatuli_40
324: Papalitta_40
325: Peep_41
326: Symere_40
327: StingRay_40
328: ShaiHulud_41
329: Aleyra_41
330: JasperRussell_40
331: Lealus_40
332: MaeLinda_41
333: HairyMan_37
334: Carostasia_39 + 2
335: Mandalorian_39
336: YuuY_40
337: Fabyndrax_38 + 1
338: Juanyo_39
339: MiniViolent_38
340: Scissor2024_40
341: WestPM_37
342: Tinyman4_39 + 1
343: Kavo_38
344: Schimmels22_39
345: Ixel_41
346: Penta_37
347: ChikPic_40
348: Phanita_41
349: Xebius_40 + 3
350: Saratos_40

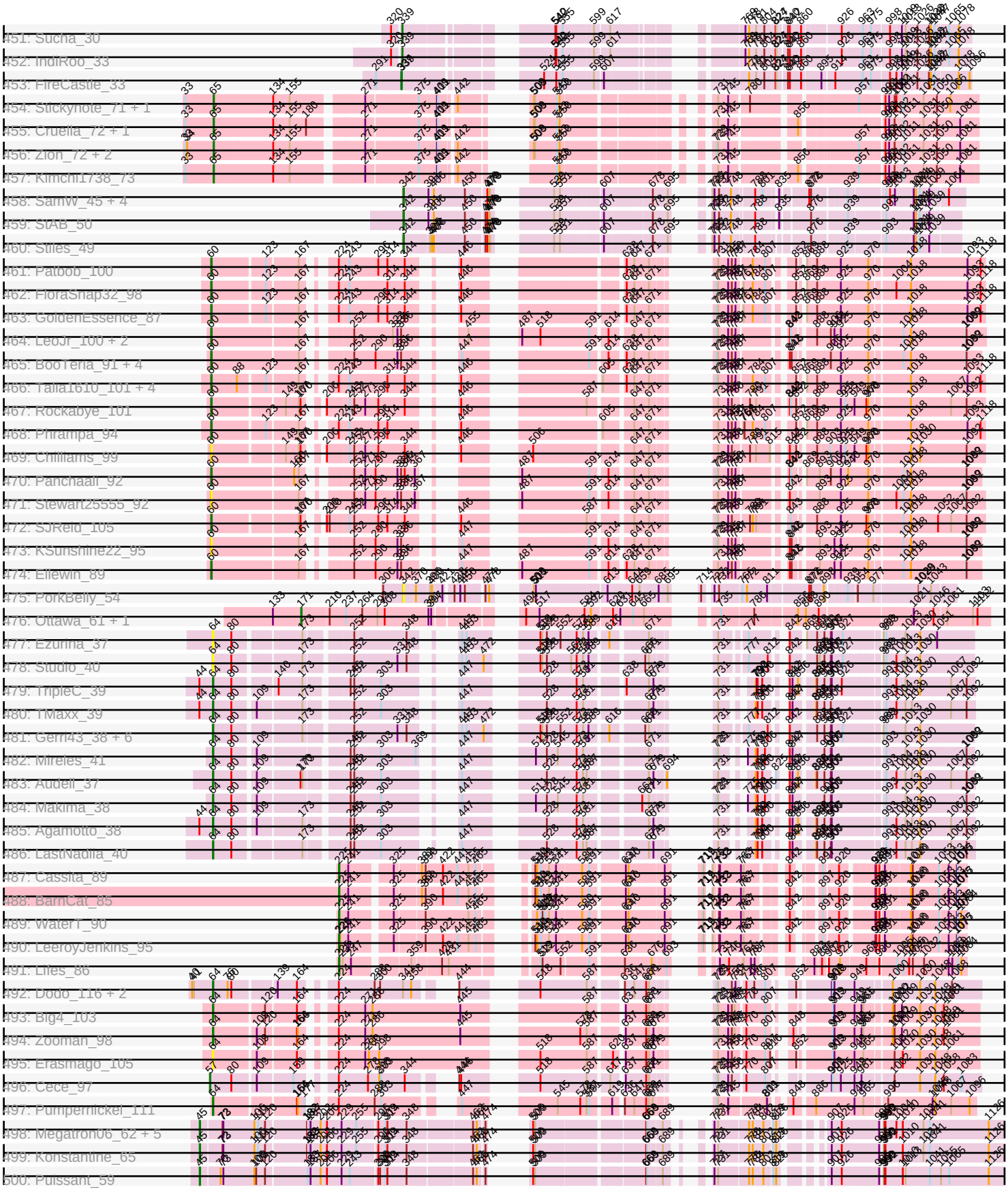
Pham 347019


351: Zenitsu_40 + 1
352: Orpington_40 + 1
353: Eleri_40
354: Sansa_39
355: PSirce_40
356: Finny_41
357: Pikmin_37 + 2
358: BouleyBill_39
359: Koji_39
360: Jingles_40
361: Guetzie_40 + 1
362: PrincePhergus_39
363: Golden_39 + 1
364: Kauala_39
365: RenegadeRaider_42
366: Sinatra_40 + 2
367: LilTerminator_40
368: Alakazam_40
369: Clock_40
370: Vafari_40
371: QuadZero_39
372: Zayulliv_40
373: CaptainRex_40 + 3
374: TwoBits_39
375: Nebulous_39
376: Zepp_40
377: BaronJohn_40
378: Wardwill_42
379: Nefertheha_41
380: Greenlvy_40
381: Luna18_42 + 1
382: Juicer_42 + 1
383: Morrigan_42
384: WilliamStrong_40
385: Chepil_42
386: Theresita_31
387: Schubert_39
388: GaeCeo_42 + 1
389: Cheeto1_42
390: Wolfstar_82
391: Jacko_79
392: Pavlo_78
393: Saradis_80
394: Oterion_82
395: Solimine_81
396: Hubbs_78 + 1
397: Platte_76 + 5
398: PhillyPhilly_77
399: Lupine_78
400: Roman_81

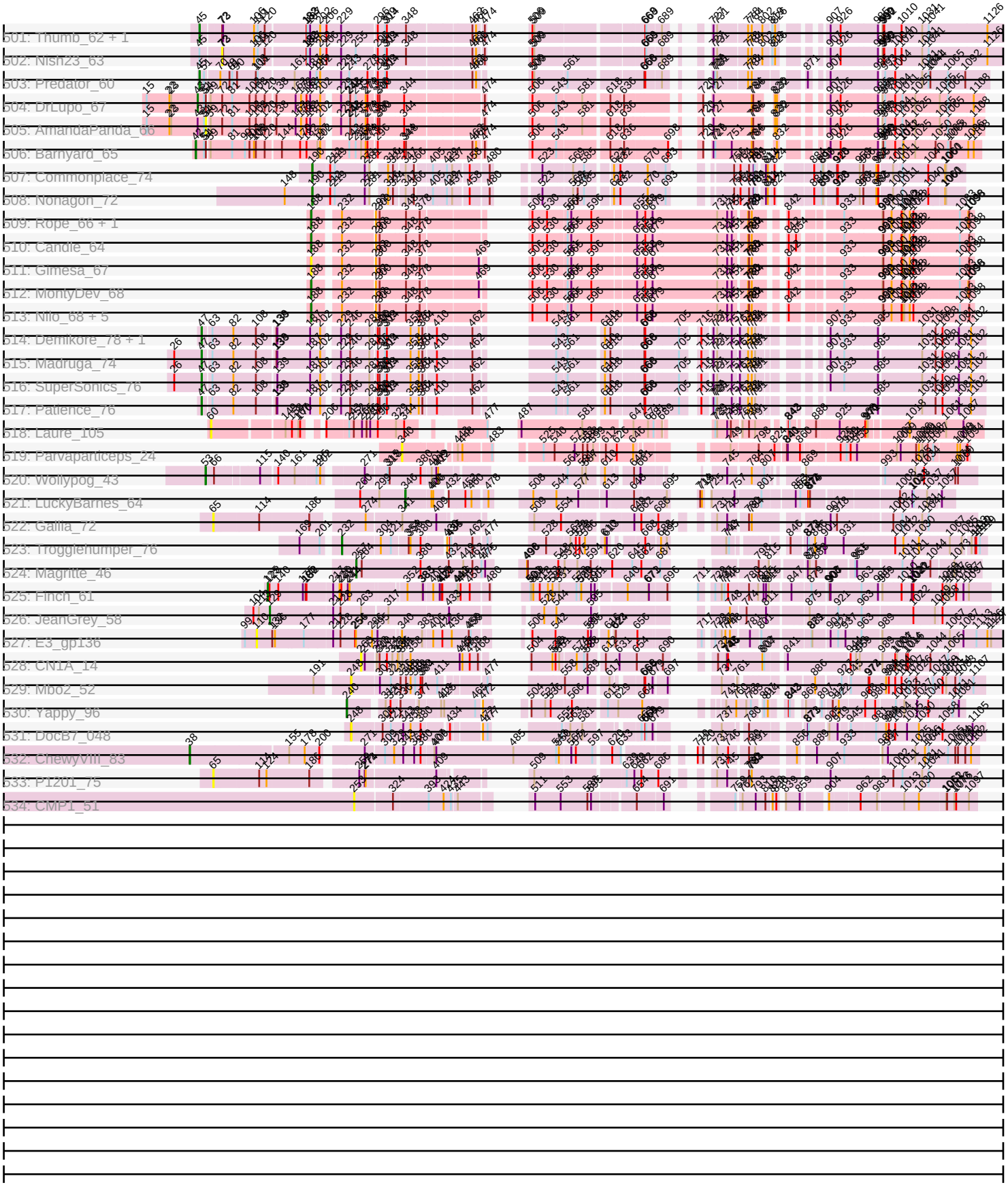
Pham 347019


401: Erenyeager_84
402: Issa7_83
403: Deschain_85 + 4
404: Fork_80
405: SteakFry_87 + 2
406: Musetta_83
407: Welcome_86
408: Shroomer_89
409: Necrophoxinus_86
410: Lyell_84
411: StevieWelch_85
412: Mistmere_78
413: FountainFog_39
414: Poultress_39
415: JingleBells_40
416: Gilda_40 + 14
417: Cybele_40 + 1
418: Annapurna_40 + 5
419: Dauntless_39 + 1
420: Sparcetus_42
421: Snakehole_40
422: MortySmith_38
423: Kors_42
424: Hager_41
425: Krampus_40
426: TinyMinty_42
427: Tedro_40
428: Tongui_40
429: RikSengupta_42
430: DannyDe_40
431: Aesir_39 + 1
432: WinnieLou_41
433: Rie18_40
434: Karate_39
435: Ajin_42
436: Bramble_42
437: Haunter_40
438: LordBart_42
439: Cicada_35 + 1
440: PermaG_34
441: Jera_34
442: Rasovi_33 + 1
443: AyoTeo_35 + 2
444: Olympi_35
445: Benry_32
446: Alove_33 + 2
447: Linayshia_33
448: Milani_33
449: Zanella_33
450: Goodman_34 + 1

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451: Sucha_30
452: IndiRoo_33
453: FireCastle_33
454: Stickynote_71 + 1
455: Cruella_72 + 1
456: Zion_72 + 2
457: Kimchi1738_73
458: SamW_45 + 4
459: StAB_50
460: Stiles_49
461: Patbob_100
462: FloraSnap32_98
463: GoldenEssence_87
464: LeoJr_100 + 2
465: BooTeria_91 + 4
466: Talia1610_101 + 4
467: Rockabye_101
468: Phrampa_94
469: Chilliams_99
470: Panchaali_92
471: Stewart25555_92
472: SJReid_105
473: KSunshine22_95
474: Ellewin_89
475: PorkBelly_54
476: Ottawa_61 + 1
477: Ezurina_37
478: Studio_40
479: TripleC_39
480: TMaxx_39
481: Gerri43_38 + 6
482: Mireles_41
483: Audell_37
484: Makima_38
485: Agamotto_38
486: LastNadia_40
487: Cassita_89
488: BarnCat_85
489: WaterT_90
490: LeeroyJenkins_95
491: Lfles_86
492: Dodo_116 + 2
493: Big4_103
494: Zooman_98
495: Erasmago_105
496: Cece_97
497: Pumpernickel_111
498: Megatron06_62 + 5
499: Konstantine_65
500: Puissant_59

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501: Thumb_62 + 1
502: Nish23_63
503: Predator_60
504: DrLupo_67
505: AmandaPanda_66
506: Barnyard_65
507: Commonplace_74
508: Nonagon_72
509: Rope_66 + 1
510: Candle_64
511: Gimesa_67
512: MontyDev_68
513: Nilo_68 + 5
514: Demikore_78 + 1
515: Madruga_74
516: SuperSonics_76
517: Patience_76
518: Laure_105
519: Parvaparticeps_24
520: Wollypog_43
521: LuckyBarnes_64
522: Galila_72
523: Troggiehumper_76
524: Magritte_46
525: Finch_61
526: JeanGrey_58
527: E3_gp136
528: CN1A_14
529: Mibo2_52
530: Yappy_96
531: DocB7_048
532: ChewyVIII_83
533: P1201_75
534: CMP1_51

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 347019 Report

This analysis was run 11/14/26 on database version 672.

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 347019 has 1077 members, 112 are drafts.

Phages represented in each track:
• Track 1 : Settecandela_95, Phrappuccino_95
• Track 2 : Fowlmouth_74
• Track 3 : Cuke_73
• Track 4 : Indlulamithi_65
• Track 5 : MrMiyagi_73
• Track 6 : Onyinye_65, Aikoy_65
• Track 7 : Leopard_64
• Track 8 : Aledel_26, Riovina_26, Eunoia_26, OMalley_26
• Track 9 : Lucy_25
• Track 10 : DreamTeam_25, Gisselle_25, Kittykat_25
• Track 11 : Christian_25
• Track 12 : HunterDalle_26, Vulture_26
• Track 13 : Beethoven_29, Glenn_29, TattModd_29, Rozby_29, Fluke_29, Vallejo_29, Riverdale_29, Carpal_29
• Track 14 : EstebanJulior_26, MamaPearl_26
• Track 15 : Oxynfrius_29, Nubia_29
• Track 16 : MrBoss_30
• Track 17 : Misaeng_29
• Track 18 : BrotherBLo_29
• Track 19 : Chridison_26
• Track 20 : Huntingdon_29, RcigaStruga_29
• Track 21 : RAP15_29, Cholula_29, MeganNoll_29, Jumboset_29, Savage2526_29, Potatoes_29
• Track 22 : PitaDog_25, Bodacious_25, CristinaYang_25, ChewChew_25, Nancia_25, DrRobert_25
• Track 23 : AppleCider_29
• Track 24 : Wawa_29
• Track 25 : Moki_25
• Track 26 : Sergei_26, Daiboju_26, Maria1952_26, KingBob_26, Temper16_26, Herb_26
• Track 27 : Pumancara_25
• Track 28 : Kalizoi_29
• Track 29 : Albanese_29

• Track 30 : Urla_26
• Track 31 : Suppi_29, Canowicakte_29, Wayne_29
• Track 32 : WonderBoy_25
• Track 33 : Greenhouse_29
• Track 34 : Joann_29
• Track 35 : Preamble_25
• Track 36 : GreenHearts_29
• Track 37 : Zorro_29
• Track 38 : PinkFriday_25
• Track 39 : Litotes_29
• Track 40 : AustinPowers_26
• Track 41 : Korra_30
• Track 42 : Lakshmi_29
• Track 43 : Graynor_30
• Track 44 : PartyCup_29
• Track 45 : LilStuart_25
• Track 46 : Bennie_25
• Track 47 : Scuttle_29
• Track 48 : BigMack_25
• Track 49 : Makoto_25
• Track 50 : Laroye_95
• Track 51 : Wheelbite_90
• Track 52 : Shrooms_93
• Track 53 : LiSara_92, Salgado_95
• Track 54 : ApoKipo_99
• Track 55 : Kovu_95
• Track 56 : Edmundo_94
• Track 57 : Waltz_91
• Track 58 : Amavida_72, Heylee_73
• Track 59 : Boersma_73, Amigo_71, Jaek_70, Yeezus_70, Ichor_70
• Track 60 : Anansi_70, Rings_71, SorJuana_70, Gorgeous_70
• Track 61 : Molivia_74
• Track 62 : Thunderclap_70
• Track 63 : HumptyDumpty_90, RosiePosie_90, Scavito_91, Linus_90, JaNo_89, MoyaNatalis_89, JayCookie_90, Chocolat_90, Tophat_91, Kabreeze_90, Conboy_88, Mordred_90, Chipper1996_910
• Track 64 : Lymara_87
• Track 65 : Colucci_93
• Track 66 : Chubster_90
• Track 67 : KBurrousTX_88
• Track 68 : PrincessTrina_91
• Track 69 : EdgarPoe_89
• Track 70 : DrYang_86
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• Track 79 : Henoccus_42
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• Track 81 : Microdon_41
• Track 82 : JustBecause_122, Kela_123
• Track 83 : Sarkar_124, Satis_124, Quantum_123, Kradal_124
• Track 84 : EhyElimayoE_125
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• Track 88 : Greenbelt_68
• Track 89 : Rooney_70
• Track 90 : Dryad_74
• Track 91 : PHTowN_70, ShakeNBake_70
• Track 92 : Wentworth_70
• Track 93 : SassyC_75
• Track 94 : Gibson_70
• Track 95 : Wilkos_72
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• Track 97 : Virizion_75
• Track 98 : BRock_117
• Track 99 : GiJojo_116
• Track 100 : Alone3_128
• Track 101 : Fudan_122, LuckySocke_124
• Track 102 : Garnacho_117
• Track 103 : Talos_127
• Track 104 : Park1214_126
• Track 105 : Beleetus_123
• Track 106 : Belieber_182, Lethe_188, Ading_188, Lunareta_187, Phlegm_191, ParkTD_186, NuevoMundo_191, BananaFence_185, Adlitam_187, LookingGlass_187, Pupusa_192, BackyardAgain_185, Concombre_192, Cactojaque_184, Primadonna_182, Shifa_180, Caravan_179, Labradorite_188, Fludd_189, Naval22_195, Khaleesi_187, Rizal_182, I3_196, BadAgartude_182, Bxz1_179, Fongie_189, Bangla1971_188, Babyland_190, LifeSavor_187, Melpomini_182, Darko_187, LordLeafolot_189, Domi_182, Bigswole_191, Bowman_188, Roots515_190, Dietrick_178, Tainan_189, CindyLou_189, ValleyTerrace_188, Demodog_193, ET08_176, SVoro_184, GlutenPhree_188, Napoleon13_186, PharkleMinkus_188, Burrough_190, Amataga_188, ErnieJ_181, Quasimodo_191, Mangeria_188, Loanshark_185, Chomp_187, Megamind_185, Jemmno_187, Latch_187, Fixie_178, Tortoise16_186, Dandelion_195, YoungMoneyMata_187, Jedediah_188, Guwapp_183, Zalkecks_187, EmToTheThree_189, JulietS_179, Gabriel_191, Sauce_184, FrayBell_191, Gizmo_193, InterFolia_191, Ava3_187, StubbySaigey_192, Catera_183, Janiyra_192, Patter_188, Yucca_188, Ewok_187, JPickles_184, Pivoine_188, Audrick_191, Blackdragon_182, YemiJoy2021_188, JigglyPuff_194, Bezza_180, PurduePete_188, Sebata_189, ChaylaJr_186, Rocha_185, Montpel_187, GoldenSnow_188, Spud_184, Maby2021_187, Maturis_186, Wally_188, Shelob_189, Astraea_182, MikeLiesIn_189, Basquiat_186, Jaygup_184, LolaVinca_186, Ngannou_184, EmmaElysia_191, Kboogie_192, Turret_182, ChickenPhender_185, Phusco_187, Trinitium_185, Naija_188, Delylah_189, Asterius_189, Drazdys_186, Pleione_192, Mikro_183, Substance289_185, NoodleTree_194, Phox_188, IkeLoa_180, Bonray_190, Daffodil_192, Atlantean_187, Gamgam_188, Ronan_183, Dessert_187, Essence_185, Cleatunium_181, Grungle_173, RoMag_183, Rahel_189, ArcherS7_187, Delilah_186, StephanieG_185, DirtMonster_181, Ghost_188, Derek_185, Erdmann_189, Zeenon_190, Spec_182, Salacia_188, McWolfish_185, Kamryn_187, DTDevon_190, Nappy_188, MoMoMixon_186,

Nidhogg_189, Flabslab_184, Pio_196, Littleton_191, FudgeTart_183, Chargie21_186, Izajani_186, InigoMontoya_190, BobaPhatt_181, Duckfeet_182, SilverDipper_191, LRRHood_181, HyRo_176, Iota_182, McGee_188, Bipolarisk_186, Teardrop_185, Willis_188, Halldule_180, NedWong_187, Issimir_182, CharlieB_181, Puhon_190, SoilZilla_184, Sprinklers_185, Matsumoto_187, Ablatia_188, Tyke_186, LinStu_186, SrishMeg2525_185, Capablanca_192, JayJay_190, QBert_179, Lee7_191, Pier_189, ShiaLabeouf_185, EasyJones_192, Morizzled23_186, SiwenD96_190, Breeniome_187, Momo_188, TinyTim_186, Yassified_184, Maguvora_189, ZygoTaiga_184, Lukilu_178, Jezreel_185, Shnickers_186

- Track 107 : Norm_187, BeanWater_179
- Track 108 : Grasshills_195, BigCity_196, EggyFarm_196
- Track 109 : Blackbrain_185
- Track 110 : Vortrix_205, Tonenili_206
- Track 111 : OrediggerDelux_188, FoxtrotP1_186, SmallFry_188, Specks_192
- Track 112 : DrPhinkDaddy_185
- Track 113 : Cali_182
- Track 114 : Bread_183
- Track 115 : Jessibeth14_188
- Track 116 : Moiqah_183, Moby_184
- Track 117 : DeejaClivia_176, JustHall_183, ScottMcG_182
- Track 118 : Shrimp_189
- Track 119 : Phabba_186
- Track 120 : ScoobyDoobyDoo_172
- Track 121 : Greely_181
- Track 122 : Myrna_176
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• Track 261 : Apeppi_55
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• Track 264 : GretelLyn_60
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• Track 267 : Pywacket_58
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• Track 534 : CMP1_51

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

The start number called the most often in the published annotations is 119, it was called in 185 of the 965 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_188, Ading_188, Adlitam_187, Amataga_188, ArcherS7_187, Asterius_189, Astraea_182, Atlantean_187, Audrick_191, Ava3_187, Babyland_190, BackyardAgain_185, BadAgartude_182, BananaFence_185, Bangla1971_188, Basquiat_186, BeanWater_179, Belieber_182, Bezza_180, BigCity_196, Bigswole_191, Bipolarisk_186, Blackdragon_182, BobaPhatt_181, Bonray_190, Bowman_188, Bread_183, Breeniome_187, Burrough_190, Bxz1_179, Cactojaque_184, Capablanca_192, Caravan_179, Catera_183, Chargie21_186,

CharlieB_181, ChaylaJr_186, CherryTomatoes_133, ChickenPhender_185, Chomp_187, CindyLou_189, Cleatunium_181, Concombre_192, DTDevon_190, Daffodil_192, Dandelion_195, Darko_187, DeejaClivia_176, Delilah_186, Delylah_189, Demodog_193, Derek_185, Dessert_187, Dietrick_178, DirtMonster_181, Domi_182, DrPhinkDaddy_185, Drazdys_186, Duckfeet_182, ET08_176, EasyJones_192, EggyFarm_196, EmToTheThree_189, EmmaElysia_191, Erdmann_189, ErnieJ_181, Essence_185, Ewok_187, Fixie_178, Flabslab_184, Fludd_189, Fongie_189, FoxtrotP1_186, FrayBell_191, FudgeTart_183, Gabriel_191, Gamgam_188, Ghost_188, Gizmo_193, GlutenPhree_188, GoldenSnow_188, Grasshills_195, Grungle_173, Guwapp_183, Halldule_180, HyRo_176, I3_196, IkeLoa_180, InigoMontoya_190, InterFolia_191, Iota_182, Issimir_182, Izajani_186, JPickles_184, Janiyra_192, JayJay_190, Jaygup_184, Jedediah_188, Jemmno_187, Jessibeth14_188, Jezreel_185, JigglyPuff_194, JulietS_179, JustHall_183, Kamryn_187, Kboogie_192, Khaleesi_187, LRRHood_181, Labradorite_188, Latch_187, Lee7_191, Lethe_188, LifeSavor_187, LinStu_186, Littleton_191, Loanshark_185, LolaVinca_186, LookingGlass_187, LordLeafolot_189, Lukilu_178, Lunareta_187, Maby2021_187, Maguvora_189, Mangeria_188, Matsumoto_187, Maturis_186, McGee_188, McWolfish_185, Megamind_185, Melpomini_182, MikeLiesIn_189, Mikro_183, MoMoMixon_186, Moby_184, Moiqah_183, Momo_188, Montpel_187, Morizzled23_186, Naija_188, Napoleon13_186, Nappy_188, Naval22_195, NedWong_187, Ngannou_184, Nidhogg_189, NoodleTree_194, Norm_187, NuevoMundo_191, OrediggerDelux_188, ParkTD_186, Patter_188, PharkleMinkus_188, Phlegm_191, Phox_188, Phusco_187, Pier_189, Pio_196, Pivoine_188, Pleione_192, Primadonna_182, Puhon_190, Pupper_134, Pupusa_192, PurduePete_188, QBert_179, Quasimodo_191, Rahel_189, Rizal_182, RoMag_183, Rocha_185, Ronan_183, Roots515_190, SCentae_133, SVoro_184, Salacia_188, Sauce_184, ScottMcG_182, Sebata_189, Shelob_189, ShiaLabeouf_185, Shifa_180, Shnickers_186, Shrimp_189, SilverDipper_191, SiwenD96_190, Skog_196, SmallFry_188, SoilZilla_184, Spec_182, Specks_192, Sprinklers_185, Spud_184, SrishMeg2525_185, StephanieG_185, StubbySaigey_192, Substance289_185, Tainan_189, Teardrop_185, TinyTim_186, Tonenili_206, Tortoise16_186, Trinitium_185, Turret_182, Tyke_186, ValleyTerrace_188, Vortrix_205, Wally_188, Willis_188, Yassified_184, YemiJoy2021_188, YoungMoneyMata_187, Yucca_188, Zalkecks_187, Zeenon_190, ZygoTaiga_184,

Genes that have the "Most Annotated" start but do not call it:
• Blackbrain_185, Cali_182,

Genes that do not have the "Most Annotated" start:
• A3Wally_114, ASegato_82, ASerpRocky_55, Aaravos_55, Acosta_42, Adelaide_46, Adgers_62, Adjutor_52, Aesir_39, Agamotto_38, Agente005_41, Aikoy_65, Ajin_42, Alakazam_40, Albanese_29, Aledel_26, Alephilan_60, AlexAdler_41, Aleyra_41, Alleb_76, Alone3_128, Alove_33, Alyssamiracle_63, Alyxandracam_41, AmandaPanda_66, Amavida_72, Amigo_71, Amore2_62, Anakin_40, Anamika_57, Anansi_70, Andromedas_40, Anilorac_40, AnnaSerena_40, AnnabelLee_38, Annapurna_40, Antoinette_41, Apeppi_55, Apiary_72, ApoKipo_99, AppleCider_29, ArV1_077, Araceli_42, AranulaLuti_40, Archimedes_37, Arti_71, Artiphact_40, Artu_91, Asta_40, Astralis_60, Atuin_95, Aubergine_40, Audell_37, AustinPowers_26, Austin_61, Avian_59, AxiPup_41, AyoTeo_35, BRock_117, Baines_40, Balsa_40, Bandik_41, Barbochs_57, BarnCat_85, Barnyard_65, BaronJohn_40, BeautPeep30_41, Beaver_62, Beckerton_60, BeeBee8_41, Beethoven_29, Beleetus_123, Benczkowski14_57, Benjalauren_41, Bennie_25,

BenoitCattle_59, Benry_32, Berries_57, Beyoncage_50, BiPauneto_74, Bianmat_57, Big4_103, BigMack_25, BigMama_51, BigRedClifford_41, BigShaq_59, BillyBobJr_65, BirksAndSocks_64, BirthdayBoy_62, BiteSize_50, Blage_41, Bloom_105, BlueNGold_166, BobtimousPrime_63, Bodacious_25, Boersma_73, Bogota_43, Boneham_63, BonesMcCoy_41, Bonino_40, Bonum_76, BooTeria_91, Boopy_169, BouleyBill_39, Bramble_42, Braxoaddie_72, Breezic_59, BrotherBLo_29, Buggaboo_74, Bustleton_39, Butterball_62, Butterscotch_52, Byron23_42, C3PO_72, CMP1_51, CN1A_14, Calix_40, Camerico_63, Candle_64, Canowicakte_29, CaptainRex_40, CardboardBox_39, CarisSwetlik_43, Carostasia_39, Carpal_29, Casablancas_85, Casey_37, Cassita_89, CathyBurgh_59, Cborch11_63, Cece_97, Chako_40, ChamoyPickle_40, Chamuel_40, Charianelly_57, Charminar_59, Cheeto1_42, Chelms_59, Chepli_42, ChewChew_25, ChewyVIII_83, ChickenKing_40, ChikPic_40, Chill_55, Chilliams_99, Chipper1996_910, ChipsNGuac_38, Chivey_40, Chocolat_90, Cholula_29, Chridison_26, Christian_25, Christoph_40, Chubster_90, Cicada_35, Cidela_38, CinnamonToast_65, Clancy_40, Clock_40, CoffeeBean_72, ColaCorta_40, Colucci_93, Commandaria_72, Commonplace_74, Conboy_88, Convict_41, CoolCookie_40, CoraRita_40, Crestdrop_40, Crete_60, CristinaYang_25, Crosby_42, Cruella_72, Cuke_73, Cybele_40, Daiboju_26, Dakiti_60, Dalilpop_75, Damien_61, Damp_57, DannyDe_40, Darwin_73, Dauntless_39, Dave_41, DaviePasture_60, DejaVu_80, Delphidian_41, Delton_54, Demikore_78, Demosthenes_55, Den3_41, Deschain_85, Diabla_63, Dina_47, Djokovic_50, DocB7_048, Dodo_116, DoobyDoo_59, Dothraki_41, DrLupo_67, DrRobert_25, DrYang_86, DreamTeam_25, Dryad_74, DumpTruck_58, DunneganBoMo_90, Duocatuli_40, DustyDino_88, E3_gp136, EdgarPoe_89, Edmundo_94, Eggsie_57, EhyElimayoE_125, Ekhein_59, Eleri_40, Ellewin_89, Emianna_72, Emmetator_93, Endor_41, Ennea_79, Erasmago_105, Erenyeager_84, Erk16_52, Erla_40, Erudite_39, Erutan_60, Espinosa_40, EstebanJulior_26, Etna_40, Etta_40, Eunoia_26, Exiguo_58, Exploradora_40, Ezurina_37, Fabyndrax_38, FarmerDoug_40, FelixAlejandro_64, Figueroism_41, Finch_61, Finny_41, FireCastle_33, Flakey_58, Flapper_75, Float294_74, FloraSnap32_98, Fluke_29, Fork_80, Forza_170, FountainFog_39, Fowlmouth_74, Foxboro_72, Frankenweenie_134, FreddieHg_40, Frizzle_34, FrostedClock_101, Fudan_122, Fulcrum_60, Fulton_40, Fury_82, GMA2_64, GMA3_58, GMA7_51, GOATification_60, GRU1_61, GTE5_60, GTE7_50, GTE8_60, GaeCeo_42, Gagieri_70, GalacticEye_57, Gallia_72, GardenB_40, Garey24_41, Gargoyle_41, Garnacho_117, Gelo_40, Genamy16_63, Gerri43_38, Gershwin_40, Ghobes_35, GiJojo_116, Gibbin_62, Gibbles_56, Gibson_70, Gilda_40, Gimesa_67, Gisselle_25, Giuseppe_53, Glamour_40, Glenn_29, Gmala1_55, GodonK_184, GoingMerry_41, GoldenEssence_87, Golden_39, GoneGirl_41, Goodman_34, GordDuk1_59, GordTnk2_60, Gorgeous_70, Gorko_58, GourdThymes_59, Graynor_30, Greely_181, GreenHearts_29, GreenIvy_40, Greenbelt_68, Greenhouse_29, GretelLyn_60, Greys_41, GrootJr_74, Gubbabump_40, Guetzie_40, Guillaume_57, Gumball_52, Hager_41, Hail2Pitt_56, HairyMan_37, Hamlet_40, HanSolo_40, HankSprout_41, Harambe_57, Hasitha_40, Haunter_40, HavenFinLeoSun_42, Hawkeye_56, HayZem_62, Hello_57, Helpful_56, Henoccus_42, Herb_26, HerculesXL_40, Heylee_73, Hiddenleaf_40, HollowPurple_85, Hollow_57, HomeFry_79, Hortus1_77, Hotorobo_59, Htur_33, HubbaBubba_67, Hubbs_78, HumptyDumpty_90, HungryHenry_40, HunterDalle_26, Huntingdon_29, IDyn_69, Ichor_70, Ilzat_40, IndiRoo_33, Indlulamithi_65, Intolerant_41, Inventa_41, Ioannes_41, Issa7_83, Ixel_41, JDawG_39, JaNo_89, JackieB_42, Jacko_79, Jaek_70, Jalebi_59, Jamemuya19_59, Jams_57, Janus167_40, JasonD_43, JasperRussell_40, JayCookie_90, JeanGrey_58, Jellybones_61, Jemerald_42, Jenos_44, Jera_34, Jerbirus_42, JeriBeth_40, Jifall16_71, JingleBells_40,

Jingles_40, Joann_29, Johann_34, John316_62, Jormungandr_57, Juanyo_39, Juicer_42, Jumbo_57, Jumboset_29, JustBecause_122, KBurrousTX_88, KSunshine22_95, Kabluna_75, Kabreeze_90, Kale_40, Kalizoi_29, Kampe_58, KandZ_52, KannH_40, Karate_39, Kaseim_57, KatChan_42, Kate_41, Katyusha_57, Kauala_39, Kavo_38, Kela_123, KellyGreen_42, Kelzog_61, Kharcho_61, KidneyBean_72, Kimchi1738_73, KingBob_26, KingJulien_40, Kittykat_25, Klimt_41, Knox_41, Koji_39, Konstantine_65, Korra_30, Kors_42, Kouch_41, Kovu_95, Kradal_124, Krampus_40, Kurt1_41, Kurt_72, Kvothe_56, Labella_35, Labelle_76, Lahirium_57, Lakshmi_29, Lambo_58, Laroye_95, LastNadiia_40, Laure_105, LavAbarElk_60, LazerLemon_42, Leafus_40, Lederberg_45, LeeroyJenkins_95, LeoJr_100, Leopard_64, LiSara_92, Librie_40, Lidong_57, Lifes_86, LilStuart_25, LilTerminator_40, Lila22_61, LilyPad_52, Linayshia_33, Linetti_59, Linus_90, Litotes_29, LittleFella_57, Lizz_70, Lizzo_59, Lollipop1437_76, LordBart_42, Lovelyunicorn_41, Lucky3_39, LuckyBarnes_64, LuckyLeo_57, LuckySocke_124, Lucy_25, Ludgate_41, Luker_58, Luna18_42, Lupine_78, Lyell_84, Lymara_87, MCubed_40, MacGully_81, Madi_50, Madruga_74, MaeLinda_41, Magritte_46, Makima_38, Makoto_25, MamaPearl_26, ManRay_40, Mandalorian_39, Mareelih_167, Maria1952_26, Marietta_72, Marky_44, Martin_42, Maselop_72, Mbo2_52, McGalleon_43, MeganNoll_29, Megatron06_62, MerCougar_75, Mercedes_36, Merida02_43, Microdon_41, Milani_33, MillyPhilly_41, Mima20_60, Mimi_101, MiniVolent_38, Minos_58, Mireles_41, Misaeng_29, Mistmere_78, MoiGyank_63, Moki_25, Molivia_74, MonChoix_39, MontyDev_68, Monty_58, Mopey_54, Mordred_90, Morrigan_42, MortySmith_38, MoyaNatalis_89, MrBoss_30, MrMiyagi_73, MrWorldwide_41, MrWormie_57, Msay19_64, Musetta_83, Myrna_176, NadineRae_71, Nagem_41, Nancia_25, NarutoRun_40, NatB6_72, Nattles_40, Nebulous_39, Necrophoxinus_86, Neferthena_41, Neoevie_57, Neptune_40, Nettle_61, Neuvillette_38, Newt_58, Niagara_57, NickSell_41, Nilo_68, Nimi13_57, Nirvana_129, Nish23_63, Nonagon_72, NorManre_63, NosilaM_73, NovaSharks_62, Nova_52, NovumRegina_72, Nubia_29, Nucci_39, OMalley_26, Oaker_60, Oats_40, OhDear_40, OldNelly_42, OlinDD_77, Olympi_35, Onyinye_65, Orchid_57, Orpington_40, Ottawa_61, OtterstedtS21_60, Outis_73, OverHedge_40, Oxtober96_42, Oxynfrius_29, P1201_75, PBI1_50, PHTowN_70, PLot_53, PSirce_40, Pajaza_37, Panchaali_92, Papafritta_40, Papyrus_66, Park1214_126, ParleG_41, PartyCup_29, Parvaparticeps_24, ParvusTarda_59, Patbob_100, Patience_76, Patio_74, Patos_63, PatrickStar_58, PauloDiaboli_114, Pavlo_78, Peep_41, Pemberton_72, Penelope2018_53, Penta_37, Peppino_40, PermaG_34, PeteyPab_71, Phabba_186, Phalaborwa_53, Phanita_41, Pharpay_40, Phendrix_173, Pherbot_39, Pherferi_41, Phiderman_41, PhillyPhantom_40, PhillyPhilly_77, Philon9_57, Phireproof_41, Phomeo_71, Phrampa_94, Phrappuccino_95, PhredFlintston_41, Phreeze_60, Phriends_41, PhunaPhoke_40, PierreThree_58, Pikmin_37, PinkFriday_25, Pioneer3_77, PitaDog_25, Platte_76, Pleakley_82, Pocket_40, PokyPuppy_58, Poland_64, Polyyuki_72, PorkBelly_54, PotatoChip_72, Potatoes_29, Potty_40, Poultress_39, Prager_53, Preamble_25, Predator_60, PrincePhergus_39, PrincessTrina_91, Puissant_59, Pumancara_25, Pumpernickel_111, PuppyEggo_41, Pywacket_58, QuadZero_39, Quantum_123, Quartz_40, RAP15_29, Raccoon_40, Racecar_102, Rachella_40, Ranch_60, Rapheph_41, Raptor_41, Rasovi_33, RazorC_60, RcigaStruga_29, RedRaider_79, RedWattleHog_62, Redfield_40, ReginaGlobina_100, RemRem_60, RenegadeRaider_42, Renzie_41, Reynauld_56, Riduram_59, Rie18_40, RikSengupta_42, Rings_71, Riovina_26, Riparian_68, Riverdale_29, Riyhil_41, Roberts_38, RobinSparkles_61, Robinson_41, Rockabye_101, Rog141_40, Roman_81, Rooney_70, Rootkit7_33, Rope_66, RosieMae_40, RosiePosie_90, Rota_56, RoyalG_59, Rozby_29, Rukungu_63, Rumi_61, RunningBrook_86,

SBlackberry_33, SJReid_105, SJay_41, Sadboi_61, SafetyGuy_40, Salgado_95, Sam12_58, SamW_45, Sampudon_60, Sansa_39, Sapo_34, Saradis_80, Saratos_40, Sarkar_124, SassyC_75, Satis_124, Savage2526_29, Scavito_91, Schimmels22_39, Schnapsidee_40, Schubert_39, Scissor2024_40, ScoobyDoobyDoo_172, Scuba_82, Scuttle_29, Sedgewig_40, Send513_66, Sergei_26, Settecandela_95, ShaiHulud_41, ShakeNBake_70, Shamu_41, Shee_41, Shelley_57, Shroomer_89, Shrooms_93, Shynx_42, Sienna_50, SilentWarrior_40, Sinatra_40, SirHarley_54, SirVictor_40, Sixama_168, Skysand_75, Snakehole_40, SoilGremlin_42, SolidSnake_43, Solimine_81, Sombrero_60, SonOfLevi_41, SorJuana_70, Soror1_40, Sparcetus_42, Squibbles_58, Srilaccoli3_54, StAB_50, Stanktossa_41, StarStruck_73, SteakFry_87, SteveFrench_58, StevieWelch_85, Stewart25555_92, Sticker17_57, Stickynote_71, Stiles_49, StingRay_40, StirfryIV_40, Stormageddon_59, Stormbreaker8_40, Stormer_60, Strathdee_41, Studio_40, Stuff_42, Sucha_30, Sukkupi_71, SuperSonics_76, SuperSulley_74, Superfresh_41, SuperheroCarly_53, Suppi_29, Suzy_49, Symere_40, TMaxx_39, Talia1610_101, Talos_127, Tandem_77, TatarkaPM_41, TattModd_29, Teagan_41, Teal_57, Teatealatte_58, TeddyBear_40, Tedro_40, Teech_58, Temper16_26, Tenda_40, Terapin_51, Theresita_31, Thompsone_41, Thorongil_41, Thoth_53, Thumb_62, Thunderclap_70, Tiggy93_40, Tillicus_56, TinSulphur_42, TinyMiny_42, Tinyman4_39, Tongui_40, Tophat_91, Tracker_72, Tredge_57, TripleC_39, Trogglehumper_76, Troll4_53, Troy_45, TurboVicky_33, Turuncu_75, TwoBits_39, Typher_35, UNTPL_44, Urla_26, Uterion_82, Vafari_40, Vallejo_29, Velene_41, Virizion_75, Visconti_54, Vispistious_41, Vitaenoii_57, Vulture_26, WaddleDee_88, WaldoWhy_55, Waltz_91, Wardwill_42, WaterT_90, Wawa_29, Wayne_29, Weiss13_66, Welcome_86, Wentworth_70, WestPM_37, Wheelbite_90, Wheezy_72, WhoseManz_71, WildNOut_41, Wilkos_72, WilliamStrong_40, WinnieLou_41, Winzigespinne_40, Woes_57, Wojtek_56, Wolfstar_82, Wollypog_43, WonderBoy_25, Worcestershire_58, Xebius_40, Xenia2_58, Yappy_96, Yara_66, Yeezus_70, Yelo_65, Yikes_62, Yndexa_71, Yuma_83, YuuY_40, Zada_42, Zanella_33, Zany_58, Zayuliv_40, Zenitsu_40, Zenon_68, Zepp_40, Zion_72, Zooman_98, Zorro_29,

Summary by start number:

Start 29:
• Found in 7 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 14.3% of time when present
• Phage (with cluster) where this start called: TinyMiny_42 (EF),

Start 35:
• Found in 46 of 1077 (4.3%) of genes in pham
• Manual Annotations of this start: 37 of 965
• Called 82.6% of time when present
• Phage (with cluster) where this start called: Arti_71 (CR2), Bonum_76 (CR2), Buggaboo_74 (CR2), Commandaria_72 (CR2), Dalilpop_75 (CR1), Emianna_72 (CR2), Ennea_79 (CR3), Flapper_75 (CR1), Float294_74 (CR3), Foxboro_72 (CR2), Fury_82 (CR5), GRU1_61 (CR1), GrootJr_74 (CR2), HomeFry_79 (CR5), HubbaBubba_67 (CR4), IDyn_69 (CR4), Jifall16_71 (CR2), Kabluna_75 (CR2), KidneyBean_72 (CR2), Kurt_72 (CR2), Lollipop1437_76 (CR3), Marietta_72 (CR4), MerCougar_75 (CR2), NadineRae_71 (CR4), NovumRegina_72 (CR2), Outis_73 (CR2), Patio_74 (CR3), Pemberton_72 (CR4), Phomeo_71 (CR2), Pleakley_82 (CR5), RedRaider_79 (CR3), Scuba_82 (CR5), Skysand_75 (CR3), StarStruck_73

(CR2), SuperSulley_74 (CR2), Tracker_72 (CR2), Turuncu_75 (CR1), WhoseManz_71 (CR4),

Start 36:
• Found in 6 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 6 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apiary_72 (CR6), Braxoaddie_72 (CR6), CoffeeBean_72 (CR6), Gagieri_70 (CR6), Maselop_72 (CR6), Polyyuki_72 (CR6),

Start 37:
• Found in 7 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 14.3% of time when present
• Phage (with cluster) where this start called: MacGully_81 (CR7),

Start 38:
• Found in 1 of 1077 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChewyVIII_83 (singleton),

Start 42:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnyard_65 (H2), SuperheroCarly_53 (D1),

Start 43:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 50.0% of time when present
• Phage (with cluster) where this start called: DrLupo_67 (H2),

Start 44:
• Found in 4 of 1077 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_68 (BN),

Start 45:
• Found in 21 of 1077 (1.9%) of genes in pham
• Manual Annotations of this start: 11 of 965
• Called 52.4% of time when present
• Phage (with cluster) where this start called: Beckerton_60 (H1), BobtimousPrime_63 (H1), Cborch11_63 (H1), Damien_61 (H1), Konstantine_65 (H1), Megatron06_62 (H1), Oaker_60 (H1), Phreeze_60 (H1), Predator_60 (H1), Puissant_59 (H1), Thumb_62 (H1),

Start 47:
• Found in 6 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 4 of 965

• Called 83.3% of time when present
• Phage (with cluster) where this start called: Demikore_78 (U), Labelle_76 (U), Madruga_74 (U), Patience_76 (U), SuperSonics_76 (U),

Start 49:
• Found in 64 of 1077 (5.9%) of genes in pham
• Manual Annotations of this start: 8 of 965
• Called 15.6% of time when present
• Phage (with cluster) where this start called: Dryad_74 (BN), Gibson_70 (BN), Lizz_70 (BN), PHTowN_70 (BN), Rooney_70 (BN), SassyC_75 (BN), ShakeNBake_70 (BN), Wentworth_70 (BN), Wilkos_72 (BN), Yara_66 (BN),

Start 50:
• Found in 47 of 1077 (4.4%) of genes in pham
• Manual Annotations of this start: 13 of 965
• Called 38.3% of time when present
• Phage (with cluster) where this start called: Aaravos_55 (DV), Alyssamiracle_63 (DV), Avian_59 (DV), Genamy16_63 (DV), Gibbin_62 (DV), GretelLyn_60 (DV), Jalebi_59 (DV), Jamemuya19_59 (DV), LuckyLeo_57 (DV), Nettle_61 (DV), NovaSharks_62 (DV), ParvusTarda_59 (DV), Phalaborwa_53 (D1), Pywacket_58 (DV), Rota_56 (DV), Sampudon_60 (DV), Wojtek_56 (DV), Zany_58 (DV),

Start 51:
• Found in 75 of 1077 (7.0%) of genes in pham
• Manual Annotations of this start: 50 of 965
• Called 69.3% of time when present
• Phage (with cluster) where this start called: Adjutor_52 (D1), Aikoy_65 (AE), Alephilan_60 (DV), Apeppi_55 (DV), Astralis_60 (DV), BigMama_51 (D1), BirthdayBoy_62 (DV), Butterscotch_52 (D1), Charminar_59 (DV), Chill_55 (D1), DaviePasture_60 (DV), Delton_54 (D1), DoobyDoo_59 (DV), Erk16_52 (D1), Erutan_60 (DV), Fulcrum_60 (DV), GOATification_60 (DV), Giuseppe_53 (D1), Gumball_52 (D1), Hawkeye_56 (D2), Helpful_56 (D1), KandZ_52 (D1), Lambo_58 (DV), LavAbarElk_60 (DV), Leopard_64 (AE), Lila22_61 (DV), LittleFella_57 (DG2), Mima20_60 (DV), MoiGyank_63 (DV), Mopey_54 (D1), NorManre_63 (DV), Nova_52 (D1), Onyinye_65 (AE), OtterstedtS21_60 (DV), PBI1_50 (D1), PLot_53 (D1), Patos_63 (DV), Penelope2018_53 (D1), Prager_53 (D1), Ranch_60 (DV), RazorC_60 (DV), Riduram_59 (DV), Rukungu_63 (DV), Rumi_61 (DV), Sadboi_61 (DV), SirHarley_54 (D1), Stormer_60 (DV), Thoth_53 (D1), Troll4_53 (D1), Visconti_54 (D1), WaldoWhy_55 (D1), Yikes_62 (DV),

Start 52:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Tillicus_56 (DV),

Start 53:
• Found in 10 of 1077 (0.9%) of genes in pham
• Manual Annotations of this start: 9 of 965
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Beyoncage_50 (DG1), BiteSize_50 (DG1), Djokovic_50 (DG1), LilyPad_52 (DG1), Madi_50 (DG1), Sienna_50 (DG1), Suzy_49 (DG1), Terapin_51 (DG1), Wollypog_43 (singleton),

Start 54:
• Found in 3 of 1077 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: AmandaPanda_66 (H2),

Start 57:
• Found in 8 of 1077 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Cece_97 (GD3),

Start 58:
• Found in 98 of 1077 (9.1%) of genes in pham
• Manual Annotations of this start: 39 of 965
• Called 44.9% of time when present
• Phage (with cluster) where this start called: Aesir_39 (EF), Anakin_40 (EF), AnnaSerena_40 (EF), Annapurna_40 (EF), Artiphact_40 (EF), Chivey_40 (EF), CoolCookie_40 (EF), Crestdrop_40 (EF), Cybele_40 (EF), DannyDe_40 (EF), Dauntless_39 (EF), DumpTruck_58 (DV), Erudite_39 (EF), FountainFog_39 (EF), FreddieHg_40 (EF), Gilda_40 (EF), Hager_41 (EF), Haunter_40 (EF), Hiddenleaf_40 (EF), JDawG_39 (EF), JingleBells_40 (EF), Karate_39 (EF), Kate_41 (EF), Krampus_40 (EF), MortySmith_38 (EF), NarutoRun_40 (EF), Neptune_40 (EF), OhDear_40 (EF), OverHedge_40 (EF), Pharpay_40 (EF), PhunaPhoke_40 (EF), Potty_40 (EF), Poultress_39 (EF), Rachella_40 (EF), Rie18_40 (EF), SafetyGuy_40 (EF), SilentWarrior_40 (EF), Snakehole_40 (EF), Tedro_40 (EF), Tiggy93_40 (EF), Tongui_40 (EF), Virizion_75 (BN), WinnieLou_41 (EF), Xenia2_58 (DV),

Start 59:
• Found in 8 of 1077 (0.7%) of genes in pham
• Manual Annotations of this start: 5 of 965
• Called 62.5% of time when present
• Phage (with cluster) where this start called: BlueNGold_166 (DS), Boopy_169 (DS), Forza_170 (DS), Mareelih_167 (DS), Sixama_168 (DS),

Start 60:
• Found in 26 of 1077 (2.4%) of genes in pham
• Manual Annotations of this start: 17 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_91 (FC), Atuin_95 (FC), Bloom_105 (FC), BooTeria_91 (FC), Chilliams_99 (FC), DunneganBoMo_90 (FC), Ellewin_89 (FC), Emmetator_93 (FC), FloraSnap32_98 (FC), FrostedClock_101 (FC), GMA2_64 (DS), GoldenEssence_87 (FC), KSunshine22_95 (FC), Laure_105 (UNK), LeoJr_100 (FC), Mimi_101 (FC), Panchaali_92 (FC), Patbob_100 (FC), Phrampa_94 (FC), Racecar_102 (FC), ReginaGlobina_100 (FC), Rockabye_101 (FC), SJReid_105 (FC), Stewart25555_92 (FC), Talia1610_101 (FC), WaddleDee_88 (FC),

Start 61:
• Found in 7 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 6 of 965
• Called 85.7% of time when present

• Phage (with cluster) where this start called: Ajin_42 (EF), Bramble_42 (EF), Kors_42 (EF), LordBart_42 (EF), RikSengupta_42 (EF), Sparcetus_42 (EF),

Start 64:
• Found in 25 of 1077 (2.3%) of genes in pham
• Manual Annotations of this start: 19 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_114 (GD1), Agamotto_38 (FR), AnnabelLee_38 (FR), Audell_37 (FR), Big4_103 (GD2), CardboardBox_39 (FR), ChamoyPickle_40 (FR), ChipsNGuac_38 (FR), Dodo_116 (GD1), Erasmago_105 (GD2), Ezurina_37 (FR), Gerri43_38 (FR), GodonK_184 (DK), LastNadiia_40 (FR), Makima_38 (FR), Mireles_41 (FR), Neuvillette_38 (FR), PauloDiaboli_114 (GD1), Phendrix_173 (DK), Pumpernickel_111 (GD4), Roberts_38 (FR), Studio_40 (FR), TMaxx_39 (FR), TripleC_39 (FR), Zooman_98 (GD2),

Start 65:
• Found in 10 of 1077 (0.9%) of genes in pham
• Manual Annotations of this start: 8 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: C3PO_72 (EN), Cruella_72 (EN), Darwin_73 (EN), Gallia_72 (singleton), Kimchi1738_73 (EN), P1201_75 (singleton), PeteyPab_71 (EN), PotatoChip_72 (EN), Stickynote_71 (EN), Zion_72 (EN),

Start 72:
• Found in 12 of 1077 (1.1%) of genes in pham
• No Manual Annotations of this start.
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Nish23_63 (H1),

Start 80:
• Found in 33 of 1077 (3.1%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 9.1% of time when present
• Phage (with cluster) where this start called: GTE8_60 (CR2), NatB6_72 (CR2), Wheezy_72 (CR2),

Start 84:
• Found in 3 of 1077 (0.3%) of genes in pham
• Manual Annotations of this start: 3 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cuke_73 (AC), Fowlmouth_74 (AC), MrMiyagi_73 (AC),

Start 91:
• Found in 1 of 1077 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Indlulamithi_65 (AC),

Start 93:
• Found in 9 of 1077 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 11.1% of time when present

• Phage (with cluster) where this start called: NosilaM_73 (CR2),

Start 110:
• Found in 1 of 1077 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp136 (singleton),

Start 112:
• Found in 3 of 1077 (0.3%) of genes in pham
• Manual Annotations of this start: 3 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BiPauneto_74 (CR4), Sukkupi_71 (CR4), Yndexa_71 (CR4),

Start 116:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrappuccino_95 (AA), Settecandela_95 (AA),

Start 117:
• Found in 1 of 1077 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Myrna_176 (C2),

Start 119:
• Found in 217 of 1077 (20.1%) of genes in pham
• Manual Annotations of this start: 185 of 965
• Called 99.1% of time when present
• Phage (with cluster) where this start called: Ablatia_188 (C1), Ading_188 (C1), Adlitam_187 (C1), Amataga_188 (C1), ArcherS7_187 (C1), Asterius_189 (C1), Astraea_182 (C1), Atlantean_187 (C1), Audrick_191 (C1), Ava3_187 (C1), Babyland_190 (C1), BackyardAgain_185 (C1), BadAgartude_182 (C1), BananaFence_185 (C1), Bangla1971_188 (C1), Basquiat_186 (C1), BeanWater_179 (C1), Belieber_182 (C1), Bezza_180 (C1), BigCity_196 (C1), Bigswole_191 (C1), Bipolarisk_186 (C1), Blackdragon_182 (C1), BobaPhatt_181 (C1), Bonray_190 (C1), Bowman_188 (C1), Bread_183 (C1), Breeniome_187 (C1), Burrough_190 (C1), Bxz1_179 (C1), Cactojaque_184 (C1), Capablanca_192 (C1), Caravan_179 (C1), Catera_183 (C1), Chargie21_186 (C1), CharlieB_181 (C1), ChaylaJr_186 (C1), CherryTomatoes_133 (DO), ChickenPhender_185 (C1), Chomp_187 (C1), CindyLou_189 (C1), Cleatunium_181 (C1), Concombre_192 (C1), DTDevon_190 (C1), Daffodil_192 (C1), Dandelion_195 (C1), Darko_187 (C1), DeejaClivia_176 (C1), Delilah_186 (C1), Delylah_189 (C1), Demodog_193 (C1), Derek_185 (C1), Dessert_187 (C1), Dietrick_178 (C1), DirtMonster_181 (C1), Domi_182 (C1), DrPhinkDaddy_185 (C1), Drazdys_186 (C1), Duckfeet_182 (C1), ET08_176 (C1), EasyJones_192 (C1), EggyFarm_196 (C1), EmToTheThree_189 (C1), EmmaElysia_191 (C1), Erdmann_189 (C1), ErnieJ_181 (C1), Essence_185 (C1), Ewok_187 (C1), Fixie_178 (C1), Flabslab_184 (C1), Fludd_189 (C1), Fongie_189 (C1), FoxtrotP1_186 (C1), FrayBell_191 (C1), FudgeTart_183 (C1), Gabriel_191 (C1), Gamgam_188 (C1), Ghost_188 (C1), Gizmo_193 (C1), GlutenPhree_188 (C1),

GoldenSnow_188 (C1), Grasshills_195 (C1), Grungle_173 (C1), Guwapp_183 (C1), Halldule_180 (C1), HyRo_176 (C1), I3_196 (C1), IkeLoa_180 (C1), InigoMontoya_190 (C1), InterFolia_191 (C1), Iota_182 (C1), Issimir_182 (C1), Izajani_186 (C1), JPickles_184 (C1), Janiyra_192 (C1), JayJay_190 (C1), Jaygup_184 (C1), Jedediah_188 (C1), Jemmno_187 (C1), Jessibeth14_188 (C1), Jezreel_185 (C1), JigglyPuff_194 (C1), JulietS_179 (C1), JustHall_183 (C1), Kamryn_187 (C1), Kboogie_192 (C1), Khaleesi_187 (C1), LRRHood_181 (C1), Labradorite_188 (C1), Latch_187 (C1), Lee7_191 (C1), Lethe_188 (C1), LifeSavor_187 (C1), LinStu_186 (C1), Littleton_191 (C1), Loanshark_185 (C1), LolaVinca_186 (C1), LookingGlass_187 (C1), LordLeafolot_189 (C1), Lukilu_178 (C1), Lunareta_187 (C1), Maby2021_187 (C1), Maguvora_189 (C1), Mangeria_188 (C1), Matsumoto_187 (C1), Maturis_186 (C1), McGee_188 (C1), McWolfish_185 (C1), Megamind_185 (C1), Melpomini_182 (C1), MikeLiesIn_189 (C1), Mikro_183 (C1), MoMoMixon_186 (C1), Moby_184 (C1), Moiqah_183 (C1), Momo_188 (C1), Montpel_187 (C1), Morizzled23_186 (C1), Naija_188 (C1), Napoleon13_186 (C1), Nappy_188 (C1), Naval22_195 (C1), NedWong_187 (C1), Ngannou_184 (C1), Nidhogg_189 (C1), NoodleTree_194 (C1), Norm_187 (C1), NuevoMundo_191 (C1), OrediggerDelux_188 (C1), ParkTD_186 (C1), Patter_188 (C1), PharkleMinkus_188 (C1), Phlegm_191 (C1), Phox_188 (C1), Phusco_187 (C1), Pier_189 (C1), Pio_196 (C1), Pivoine_188 (C1), Pleione_192 (C1), Primadonna_182 (C1), Puhon_190 (C1), Pupper_134 (DO), Pupusa_192 (C1), PurduePete_188 (C1), QBert_179 (C1), Quasimodo_191 (C1), Rahel_189 (C1), Rizal_182 (C1), RoMag_183 (C1), Rocha_185 (C1), Ronan_183 (C1), Roots515_190 (C1), SCentae_133 (DO), SVoro_184 (C1), Salacia_188 (C1), Sauce_184 (C1), ScottMcG_182 (C1), Sebata_189 (C1), Shelob_189 (C1), ShiaLabeouf_185 (C1), Shifa_180 (C1), Shnickers_186 (C1), Shrimp_189 (C1), SilverDipper_191 (C1), SiwenD96_190 (C1), Skog_196 (DO), SmallFry_188 (C1), SoilZilla_184 (C1), Spec_182 (C1), Specks_192 (C1), Sprinklers_185 (C1), Spud_184 (C1), SrishMeg2525_185 (C1), StephanieG_185 (C1), StubbySaigey_192 (C1), Substance289_185 (C1), Tainan_189 (C1), Teardrop_185 (C1), TinyTim_186 (C1), Tonenili_206 (C1), Tortoise16_186 (C1), Trinitium_185 (C1), Turret_182 (C1), Tyke_186 (C1), ValleyTerrace_188 (C1), Vortrix_205 (C1), Wally_188 (C1), Willis_188 (C1), Yassified_184 (C1), YemiJoy2021_188 (C1), YoungMoneyMata_187 (C1), Yucca_188 (C1), Zalkecks_187 (C1), Zeenon_190 (C1), ZygoTaiga_184 (C1),

Start 122:
• Found in 5 of 1077 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Greely_181 (C2), Phabba_186 (C2), ScoobyDoobyDoo_172 (C2),

Start 125:
• Found in 3 of 1077 (0.3%) of genes in pham
• Manual Annotations of this start: 3 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_61 (singleton), RedWattleHog_62 (DX), Stormageddon_59 (DX),

Start 126:
• Found in 22 of 1077 (2.0%) of genes in pham
• Manual Annotations of this start: 9 of 965
• Called 40.9% of time when present

• Phage (with cluster) where this start called: Benczkowski14_57 (CS4), Hollow_57 (CS4), Katyusha_57 (CS4), Niagara_57 (CS4), Philon9_57 (CS4), Teatealatte_58 (CS4), Teech_58 (CS4), Tredge_57 (CS4), Vitaenoii_57 (CS4),

Start 129:
• Found in 1 of 1077 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JeanGrey_58 (singleton),

Start 131:
• Found in 15 of 1077 (1.4%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 13.3% of time when present
• Phage (with cluster) where this start called: Demosthenes_55 (CS4), Kvothe_56 (CS4),

Start 144:
• Found in 21 of 1077 (1.9%) of genes in pham
• Manual Annotations of this start: 3 of 965
• Called 23.8% of time when present
• Phage (with cluster) where this start called: Amore2_62 (CS1), Austin_61 (CS1), GMA7_51 (CS1), GTE7_50 (CS1), HayZem_62 (CS1),

Start 145:
• Found in 212 of 1077 (19.7%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 0.5% of time when present
• Phage (with cluster) where this start called: Blackbrain_185 (C1),

Start 159:
• Found in 21 of 1077 (1.9%) of genes in pham
• Manual Annotations of this start: 18 of 965
• Called 95.2% of time when present
• Phage (with cluster) where this start called: ArV1_077 (AR), Chipper1996_910 (AR), Chocolat_90 (AR), Chubster_90 (AR), Colucci_93 (AR), Conboy_88 (AR), DrYang_86 (AR), EdgarPoe_89 (AR), HumptyDumpty_90 (AR), JaNo_89 (AR), JayCookie_90 (AR), Kabreeze_90 (AR), Linus_90 (AR), Lymara_87 (AR), Mordred_90 (AR), MoyaNatalis_89 (AR), PrincessTrina_91 (AR), RosiePosie_90 (AR), Scavito_91 (AR), Tophat_91 (AR),

Start 160:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 50.0% of time when present
• Phage (with cluster) where this start called: KBurrousTX_88 (AR),

Start 171:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kharcho_61 (FM), Ottawa_61 (FM),

Start 182:
• Found in 226 of 1077 (21.0%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 0.4% of time when present
• Phage (with cluster) where this start called: Cali_182 (C1),

Start 185:
• Found in 5 of 1077 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 20.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_55 (CS4),

Start 188:
• Found in 11 of 1077 (1.0%) of genes in pham
• Manual Annotations of this start: 10 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Candle_64 (R), Gimesa_67 (R), MontyDev_68 (R), Nilo_68 (R), Papyrus_66 (R), Riparian_68 (R), Rope_66 (R), Send513_66 (R), Weiss13_66 (R), Yelo_65 (R), Zenon_68 (R),

Start 190:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Commonplace_74 (JD), Nonagon_72 (JD),

Start 194:
• Found in 66 of 1077 (6.1%) of genes in pham
• Manual Annotations of this start: 3 of 965
• Called 7.6% of time when present
• Phage (with cluster) where this start called: BillyBobJr_65 (CS2), Charianelly_57 (CS3), CinnamonToast_65 (CS2), Eggsie_57 (CS2), Woes_57 (CS3),

Start 200:
• Found in 42 of 1077 (3.9%) of genes in pham
• Manual Annotations of this start: 9 of 965
• Called 21.4% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_125 (BM), Frankenweenie_134 (BM), JustBecause_122 (BM), Kela_123 (BM), Kradal_124 (BM), Nirvana_129 (BM), Quantum_123 (BM), Sarkar_124 (BM), Satis_124 (BM),

Start 221:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Luker_58 (CS3),

Start 222:
• Found in 122 of 1077 (11.3%) of genes in pham
• Manual Annotations of this start: 29 of 965
• Called 24.6% of time when present

• Phage (with cluster) where this start called: Adgers_62 (CS2), Barbochs_57 (CS2), Beaver_62 (CS2), BigShaq_59 (CS2), BirksAndSocks_64 (CS2), Boneham_63 (CS2), Breezic_59 (CS2), Butterball_62 (CS2), CathyBurgh_59 (CS2), Ekhein_59 (CS2), Exiguo_58 (CS2), FelixAlejandro_64 (CS2), Flakey_58 (CS2), Gorko_58 (CS2), GourdThymes_59 (CS2), Hotorobo_59 (CS2), Jellybones_61 (CS2), John316_62 (CS2), Kelzog_61 (CS2), Lizzo_59 (CS2), Monty_58 (CS2), Msay19_64 (CS2), Poland_64 (CS2), RemRem_60 (CS2), RoyalG_59 (CS2), Sam12_58 (CS2), Sombrero_60 (CS2), Squibbles_58 (CS2), SteveFrench_58 (CS2), Worcestershire_58 (CS2),

Start 225:
• Found in 5 of 1077 (0.5%) of genes in pham
• Manual Annotations of this start: 5 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarnCat_85 (GB), Cassita_89 (GB), LeeroyJenkins_95 (GB), Lifes_86 (GB), WaterT_90 (GB),

Start 232:
• Found in 13 of 1077 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 7.7% of time when present
• Phage (with cluster) where this start called: Trogglehumper_76 (singleton),

Start 235:
• Found in 42 of 1077 (3.9%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 2.4% of time when present
• Phage (with cluster) where this start called: PokyPuppy_58 (CS2),

Start 239:
• Found in 7 of 1077 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Gmala1_55 (DF1), GordDuk1_59 (DF1), GordTnk2_60 (DF1),

Start 240:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Yappy_96 (singleton),

Start 243:
• Found in 36 of 1077 (3.3%) of genes in pham
• Manual Annotations of this start: 5 of 965
• Called 13.9% of time when present
• Phage (with cluster) where this start called: Gibbles_56 (CX), Kampe_58 (CX), Orchid_57 (CX), PatrickStar_58 (CX), RobinSparkles_61 (CX),

Start 244:
• Found in 8 of 1077 (0.7%) of genes in pham
• Manual Annotations of this start: 6 of 965
• Called 87.5% of time when present

• Phage (with cluster) where this start called: Alone3_128 (BS), BRock_117 (BS), Beleetus_123 (BS), Fudan_122 (BS), Garnacho_117 (BS), LuckySocke_124 (BS), Park1214_126 (BS),

Start 247:
• Found in 3 of 1077 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 33.3% of time when present
• Phage (with cluster) where this start called: GiJojo_116 (BS),

Start 248:
• Found in 7 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 4 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Camerico_63 (DF4), DocB7_048 (singleton), GMA3_58 (DF2), Jumbo_57 (DF3), Mbo2_52 (singleton), Reynauld_56 (CH), Srilaccoli3_54 (CH),

Start 250:
• Found in 36 of 1077 (3.3%) of genes in pham
• Manual Annotations of this start: 29 of 965
• Called 94.4% of time when present
• Phage (with cluster) where this start called: ASegato_82 (ED2), Alleb_76 (ED1), Casablancas_85 (ED2), DejaVu_80 (ED1), Deschain_85 (ED2), DustyDino_88 (ED2), Erenyeager_84 (ED2), Fork_80 (ED2), HollowPurple_85 (ED2), Hortus1_77 (ED1), Hubbs_78 (ED1), Issa7_83 (ED2), Jacko_79 (ED1), Lupine_78 (ED1), Lyell_84 (ED2), Mistmere_78 (ED3), Musetta_83 (ED2), Necrophoxinus_86 (ED2), OlinDD_77 (ED1), Pavlo_78 (ED1), PhillyPhilly_77 (ED1), Pioneer3_77 (ED1), Platte_76 (ED1), Roman_81 (ED1), RunningBrook_86 (ED2), Saradis_80 (ED1), Shroomer_89 (ED2), Solimine_81 (ED1), SteakFry_87 (ED2), StevieWelch_85 (ED2), Tandem_77 (ED1), Uterion_82 (ED1), Welcome_86 (ED2), Yuma_83 (ED2),

Start 252:
• Found in 45 of 1077 (4.2%) of genes in pham
• Manual Annotations of this start: 13 of 965
• Called 28.9% of time when present
• Phage (with cluster) where this start called: Amavida_72 (AQ), Amigo_71 (AQ), Anansi_70 (AQ), Boersma_73 (AQ), Gorgeous_70 (AQ), Heylee_73 (AQ), Ichor_70 (AQ), Jaek_70 (AQ), Molivia_74 (AQ), Rings_71 (AQ), SorJuana_70 (AQ), Thunderclap_70 (AQ), Yeezus_70 (AQ),

Start 253:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CMP1_51 (singleton), Wolfstar_82 (ED),

Start 257:
• Found in 6 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Magritte_46 (singleton),

Start 263:
• Found in 3 of 1077 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: CN1A_14 (singleton),

Start 267:
• Found in 7 of 1077 (0.6%) of genes in pham
• Manual Annotations of this start: 6 of 965
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Agente005_41 (EA1), FarmerDoug_40 (EA1), KingJulien_40 (EA1), MonChoix_39 (EA1), Soror1_40 (EA1), Stormbreaker8_40 (EA1),

Start 279:
• Found in 12 of 1077 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Anilorac_40 (EA1),

Start 287:
• Found in 9 of 1077 (0.8%) of genes in pham
• Manual Annotations of this start: 9 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_99 (AL), Edmundo_94 (AL), Kovu_95 (AL), Laroye_95 (AL), LiSara_92 (AL), Salgado_95 (AL), Shrooms_93 (AL), Waltz_91 (AL), Wheelbite_90 (AL),

Start 294:
• Found in 47 of 1077 (4.4%) of genes in pham
• Manual Annotations of this start: 29 of 965
• Called 61.7% of time when present
• Phage (with cluster) where this start called: Anamika_57 (CS3), BenoitCattle_59 (CS2), Berries_57 (CS3), Bianmat_57 (CS3), Chelms_59 (CS2), Crete_60 (CS2), Dakiti_60 (CS2), Damp_57 (CS3), Diabla_63 (CS2), GalacticEye_57 (CS3), Guillaume_57 (CS3), Hail2Pitt_56 (CS3), Harambe_57 (CS3), Hello_57 (CS3), Jams_57 (CS3), Jormungandr_57 (CS3), Kaseim_57 (CS3), Lahirium_57 (CS3), Lidong_57 (CS3), Linetti_59 (CS2), Minos_58 (CS3), MrWormie_57 (CS3), Neoevie_57 (CS3), Newt_58 (CS3), Nimi13_57 (CS3), PierreThree_58 (CS2), Shelley_57 (CS3), Sticker17_57 (CS3), Teal_57 (CS3),

Start 305:
• Found in 2 of 1077 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Talos_127 (BS),

Start 333:
• Found in 75 of 1077 (7.0%) of genes in pham
• Manual Annotations of this start: 73 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Albanese_29 (AK), Aledel_26 (AK), AppleCider_29 (AK), AustinPowers_26 (AK), Beethoven_29 (AK), Bennie_25 (AK),

BigMack_25 (AK), Bodacious_25 (AK), BrotherBLo_29 (AK), Canowicakte_29 (AK), Carpal_29 (AK), ChewChew_25 (AK), Cholula_29 (AK), Chridison_26 (AK), Christian_25 (AK), CristinaYang_25 (AK), Daiboju_26 (AK), DrRobert_25 (AK), DreamTeam_25 (AK), EstebanJulior_26 (AK), Eunoia_26 (AK), Fluke_29 (AK), Gisselle_25 (AK), Glenn_29 (AK), Graynor_30 (AK), GreenHearts_29 (AK), Greenhouse_29 (AK), Herb_26 (AK), HunterDalle_26 (AK), Huntingdon_29 (AK), Joann_29 (AK), Jumboset_29 (AK), Kalizoi_29 (AK), KingBob_26 (AK), Kittykat_25 (AK), Korra_30 (AK), Lakshmi_29 (AK), LilStuart_25 (AK), Litotes_29 (AK), Lucy_25 (AK), Makoto_25 (AK), MamaPearl_26 (AK), Maria1952_26 (AK), MeganNoll_29 (AK), Misaeng_29 (AK), Moki_25 (AK), MrBoss_30 (AK), Nancia_25 (AK), Nubia_29 (AK), OMalley_26 (AK), Oxynfrius_29 (AK), PartyCup_29 (AK), PinkFriday_25 (AK), PitaDog_25 (AK), Potatoes_29 (AK), Preamble_25 (AK), Pumancara_25 (AK), RAP15_29 (AK), RcigaStruga_29 (AK), Riovina_26 (AK), Riverdale_29 (AK), Rozby_29 (AK), Savage2526_29 (AK), Scuttle_29 (AK), Sergei_26 (AK), Suppi_29 (AK), TattModd_29 (AK), Temper16_26 (AK), Urla_26 (AK), Vallejo_29 (AK), Vulture_26 (AK), Wawa_29 (AK), Wayne_29 (AK), WonderBoy_25 (AK), Zorro_29 (AK),

Start 337:
• Found in 1 of 1077 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FireCastle_33 (EJ),

Start 339:
• Found in 23 of 1077 (2.1%) of genes in pham
• Manual Annotations of this start: 21 of 965
• Called 95.7% of time when present
• Phage (with cluster) where this start called: Alove_33 (EJ), AyoTeo_35 (EJ), Benry_32 (EJ), Cicada_35 (EJ), Goodman_34 (EJ), Htur_33 (EJ), IndiRoo_33 (EJ), Jera_34 (EJ), Johann_34 (EJ), Labella_35 (EJ), Linayshia_33 (EJ), Milani_33 (EJ), Olympi_35 (EJ), PermaG_34 (EJ), Rasovi_33 (EJ), Rootkit7_33 (EJ), SBlackberry_33 (EJ), Sucha_30 (EJ), Theresita_31 (EA7), TurboVicky_33 (EJ), Typher_35 (EJ), Zanella_33 (EJ),

Start 340:
• Found in 2 of 1077 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Parvaparticeps_24 (UNK),

Start 342:
• Found in 8 of 1077 (0.7%) of genes in pham
• Manual Annotations of this start: 7 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adelaide_46 (EP), Dina_47 (EP), Lederberg_45 (EP), PorkBelly_54 (FJ), SamW_45 (EP), StAB_50 (EP), Stiles_49 (EP), Troy_45 (EP),

Start 346:
• Found in 14 of 1077 (1.3%) of genes in pham
• Manual Annotations of this start: 14 of 965
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Araceli_42 (BH), Archimedes_37 (DA), Bogota_43 (BH), Crosby_42 (BH), Henoccus_42 (BH), Intolerant_41 (BH), JackieB_42 (BH), LazerLemon_42 (BH), LuckyBarnes_64 (singleton), Microdon_41 (BH), Sapo_34 (DA), Shynx_42 (BH), Stuff_42 (BH), UNTPL_44 (BH),

Start 348:
• Found in 209 of 1077 (19.4%) of genes in pham
• No Manual Annotations of this start.
• Called 0.5% of time when present
• Phage (with cluster) where this start called: GTE5_60 (CR1),

Start 349:
• Found in 14 of 1077 (1.3%) of genes in pham
• Manual Annotations of this start: 3 of 965
• Called 21.4% of time when present
• Phage (with cluster) where this start called: Frizzle_34 (DA), Ghobes_35 (DA), Marky_44 (BH),

Start 350:
• Found in 5 of 1077 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 40.0% of time when present
• Phage (with cluster) where this start called: BouleyBill_39 (EA4), Kauala_39 (EA4),

Start 352:
• Found in 4 of 1077 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Kavo_38 (EA11), Penta_37 (EA11), WestPM_37 (EA11),

Start 356:
• Found in 3 of 1077 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 965
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acosta_42 (EA1), HavenFinLeoSun_42 (EA1), JasonD_43 (EA1),

Start 357:
• Found in 14 of 1077 (1.3%) of genes in pham
• Manual Annotations of this start: 5 of 965
• Called 42.9% of time when present
• Phage (with cluster) where this start called: HerculesXL_40 (EA11), Jemerald_42 (EA6), Juicer_42 (EA6), Schimmels22_39 (EA11), Scissor2024_40 (EA11), Tinyman4_39 (EA11),

Start 358:
• Found in 61 of 1077 (5.7%) of genes in pham
• Manual Annotations of this start: 23 of 965
• Called 39.3% of time when present
• Phage (with cluster) where this start called: Alakazam_40 (EA5), Balsa_40 (EA1), BeeBee8_41 (EA1), Bustleton_39 (EA4), Clock_40 (EA5), Endor_41 (EA1), Etna_40 (EA1), GardenB_40 (EA1), Golden_39 (EA4), GoneGirl_41 (EA1), Hamlet_40 (EA1),

Koji_39 (EA4), Leafus_40 (EA1), Lucky3_39 (EA4), Nebulous_39 (EA5), Neferthena_41 (EA5), Peppino_40 (EA1), Phanita_41 (EA2), Pherbot_39 (EA4), PrincePhergus_39 (EA4), Raccoon_40 (EA1), Redfield_40 (EA1), Schnapsidee_40 (EA1), Sinatra_40 (EA4),

Start 360:
• Found in 179 of 1077 (16.6%) of genes in pham
• Manual Annotations of this start: 155 of 965
• Called 91.6% of time when present
• Phage (with cluster) where this start called: AlexAdler_41 (EA1), Alyxandracam_41 (EA1), Andromedas_40 (EA2), Antoinette_41 (EA1), AranulaLuti_40 (EA1), Asta_40 (EA1), Aubergine_40 (EA1), AxiPup_41 (EA1), Baines_40 (EA1), Bandik_41 (EA1), BaronJohn_40 (EA5), BeautPeep30_41 (EA1), Benjalauren_41 (EA1), BigRedClifford_41 (EA1), Blage_41 (EA1), BonesMcCoy_41 (EA1), Bonino_40 (EA1), Byron23_42 (EA1), Calix_40 (EA1), CaptainRex_40 (EA5), CarisSwetlik_43 (EA1), Carostasia_39 (EA10), Casey_37 (EA3), Chako_40 (EA1), Chamuel_40 (EA1), Cheeto1_42 (EA9), Chepli_42 (EA6), ChickenKing_40 (EA9), ChikPic_40 (EA2), Christoph_40 (EA1), Cidela_38 (EA10), Clancy_40 (EA1), ColaCorta_40 (EA2), Convict_41 (EA1), CoraRita_40 (EA1), Dave_41 (EA1), Delphidian_41 (EA1), Den3_41 (EA1), Dothraki_41 (EA1), Duocatuli_40 (EA1), Eleri_40 (EA2), Erla_40 (EA1), Espinosa_40 (EA1), Etta_40 (EA1), Exploradora_40 (EA1), Fabyndrax_38 (EA10), Figueroism_41 (EA1), Fulton_40 (EA5), GaeCeo_42 (EA9), Garey24_41 (EA1), Gargoyle_41 (EA1), Gelo_40 (EA1), Gershwin_40 (EA1), Glamour_40 (EA2), GoingMerry_41 (EA1), GreenIvy_40 (EA5), Greys_41 (EA1), Gubbabump_40 (EA1), HairyMan_37 (EA10), HanSolo_40 (EA1), HankSprout_41 (EA1), Hasitha_40 (EA5), HungryHenry_40 (EA1), Ilzat_40 (EA1), Inventa_41 (EA1), Ioannes_41 (EA1), Janus167_40 (EA1), JasperRussell_40 (EA1), Jenos_44 (EA1), Jerbirus_42 (EA1), JeriBeth_40 (EA1), Juanyo_39 (EA10), Kale_40 (EA1), KannH_40 (EA1), KatChan_42 (EA6), KellyGreen_42 (EA1), Klimt_41 (EA1), Knox_41 (EA1), Kouch_41 (EA1), Kurt1_41 (EA1), Librie_40 (EA5), LilTerminator_40 (EA5), Lovelyunicorn_41 (EA1), Ludgate_41 (EA1), Luna18_42 (EA6), MCubed_40 (EA2), MaeLinda_41 (EA1), ManRay_40 (EA1), Mandalorian_39 (EA10), Martin_42 (EA1), McGalleon_43 (EA1), Mercedes_36 (EA), Merida02_43 (EA1), MillyPhilly_41 (EA1), MiniVolent_38 (EA10), MrWorldwide_41 (EA1), Nagem_41 (EA1), Nattles_40 (EA1), NickSell_41 (EA1), Nucci_39 (EA10), Oats_40 (EA1), OldNelly_42 (EA1), Orpington_40 (EA2), Oxtober96_42 (EA1), PSirce_40 (EA2), Pajaza_37 (EA3), Papafritta_40 (EA1), ParleG_41 (EA1), Peep_41 (EA1), Pherferi_41 (EA1), Phiderman_41 (EA1), Phireproof_41 (EA1), PhredFlintston_41 (EA1), Phriends_41 (EA1), Pikmin_37 (EA3), Pocket_40 (EA1), PuppyEggo_41 (EA1), QuadZero_39 (EA5), Quartz_40 (EA10), Rapheph_41 (EA1), Raptor_41 (EA1), Renzie_41 (EA1), Riyhil_41 (EA1), Robinson_41 (EA1), Rog141_40 (EA1), RosieMae_40 (EA1), SJay_41 (EA1), Sansa_39 (EA2), Saratos_40 (EA2), Schubert_39 (EA8), Sedgewig_40 (EA1), ShaiHulud_41 (EA1), Shamu_41 (EA2), Shee_41 (EA1), SoilGremlin_42 (EA1), SolidSnake_43 (EA1), SonOfLevi_41 (EA1), Stanktossa_41 (EA1), StingRay_40 (EA1), StirfryIV_40 (EA1), Strathdee_41 (EA1), Superfresh_41 (EA1), Symere_40 (EA1), TatarkaPM_41 (EA1), Teagan_41 (EA1), TeddyBear_40 (EA1), Tenda_40 (EA1), Thompsone_41 (EA1), Thorongil_41 (EA1), TinSulphur_42 (EA1), TwoBits_39 (EA5), Vafari_40 (EA5), Velene_41 (EA1), Vispistious_41 (EA1), Wardwill_42 (EA5), WildNOut_41 (EA1), WilliamStrong_40 (EA6), Winzigespinne_40 (EA1), Xebius_40 (EA2), YuuY_40 (EA10), Zada_42 (EA1), Zayuliv_40 (EA5), Zenitsu_40 (EA2), Zepp_40 (EA5),

Start 362:

• Found in 23 of 1077 (2.1%) of genes in pham
• Manual Annotations of this start: 4 of 965
• Called 17.4% of time when present
• Phage (with cluster) where this start called: Guetzie_40 (EA4), Jingles_40 (EA4), Morrigan_42 (EA6), SirVictor_40 (EA4),

Start 388:
• Found in 69 of 1077 (6.4%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 1.4% of time when present
• Phage (with cluster) where this start called: Finny_41 (EA2),

Start 430:
• Found in 28 of 1077 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 965
• Called 3.6% of time when present
• Phage (with cluster) where this start called: Ixel_41 (EA11),

Start 445:
• Found in 186 of 1077 (17.3%) of genes in pham
• No Manual Annotations of this start.
• Called 1.6% of time when present
• Phage (with cluster) where this start called: Aleyra_41 (EA1), PhillyPhantom_40 (EA1), RenegadeRaider_42 (EA4),

Summary by clusters:

There are 76 clusters represented in this pham: DO, GD2, GD3, GD4, DK, EA9, GD1, FC, BM, BN, BH, singleton, DA, ED2, JD, ED1, DX, BS, DV, FJ, DS, ED3, UNK, AQ, FR, EA4, DF1, DF3, DF2, FM, CS4, C1, CS1, CS3, CS2, AA, AC, CH, AE, EJ, EA10, ED, AK, EF, EA, AL, DG2, EA8, DG1, U, GB, C2, EA1, EA11, EA3, EA2, EA5, EP, EA7, EA6, CR2, CR3, CR1, CR6, CR7, CR4, CR5, H2, CX, H1, R, EN, DF4, D2, AR, D1,

Info for manual annotations of cluster AA:
•Start number 116 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:
•Start number 84 was manually annotated 3 times for cluster AC.
•Start number 91 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:
•Start number 51 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster AK:
•Start number 333 was manually annotated 73 times for cluster AK.

Info for manual annotations of cluster AL:
•Start number 287 was manually annotated 9 times for cluster AL.

Info for manual annotations of cluster AQ:
•Start number 252 was manually annotated 13 times for cluster AQ.

Info for manual annotations of cluster AR:
•Start number 159 was manually annotated 18 times for cluster AR.
•Start number 160 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster BH:
•Start number 346 was manually annotated 11 times for cluster BH.
•Start number 349 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BM:
•Start number 200 was manually annotated 9 times for cluster BM.

Info for manual annotations of cluster BN:
•Start number 44 was manually annotated 1 time for cluster BN.
•Start number 49 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster BS:
•Start number 244 was manually annotated 6 times for cluster BS.
•Start number 247 was manually annotated 1 time for cluster BS.
•Start number 305 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster C1:
•Start number 119 was manually annotated 181 times for cluster C1.
•Start number 145 was manually annotated 1 time for cluster C1.
•Start number 182 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:
•Start number 117 was manually annotated 1 time for cluster C2.
•Start number 122 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster CH:
•Start number 248 was manually annotated 2 times for cluster CH.

Info for manual annotations of cluster CR1:
•Start number 35 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 35 was manually annotated 18 times for cluster CR2.
•Start number 80 was manually annotated 2 times for cluster CR2.
•Start number 93 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 35 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 35 was manually annotated 6 times for cluster CR4.
•Start number 112 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 35 was manually annotated 4 times for cluster CR5.

Info for manual annotations of cluster CR6:
•Start number 36 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:
•Start number 37 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CS1:
•Start number 144 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 194 was manually annotated 1 time for cluster CS2.
•Start number 222 was manually annotated 29 times for cluster CS2.
•Start number 235 was manually annotated 1 time for cluster CS2.
•Start number 294 was manually annotated 7 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 194 was manually annotated 2 times for cluster CS3.
•Start number 221 was manually annotated 1 time for cluster CS3.
•Start number 294 was manually annotated 22 times for cluster CS3.

Info for manual annotations of cluster CS4:
•Start number 126 was manually annotated 9 times for cluster CS4.
•Start number 131 was manually annotated 2 times for cluster CS4.
•Start number 185 was manually annotated 1 time for cluster CS4.

Info for manual annotations of cluster CX:
•Start number 243 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster D1:
•Start number 42 was manually annotated 1 time for cluster D1.
•Start number 51 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 51 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DA:
•Start number 346 was manually annotated 2 times for cluster DA.
•Start number 349 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DF3:
•Start number 248 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:
•Start number 248 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DG1:
•Start number 53 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 51 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DK:
•Start number 64 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DO:
•Start number 119 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DS:
•Start number 59 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster DV:
•Start number 50 was manually annotated 13 times for cluster DV.
•Start number 51 was manually annotated 24 times for cluster DV.
•Start number 52 was manually annotated 1 time for cluster DV.
•Start number 58 was manually annotated 2 times for cluster DV.

Info for manual annotations of cluster DX:
•Start number 125 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster EA:
•Start number 360 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:
•Start number 267 was manually annotated 6 times for cluster EA1.
•Start number 279 was manually annotated 1 time for cluster EA1.
•Start number 356 was manually annotated 2 times for cluster EA1.
•Start number 358 was manually annotated 11 times for cluster EA1.
•Start number 360 was manually annotated 112 times for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 360 was manually annotated 7 times for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 352 was manually annotated 2 times for cluster EA11.
•Start number 357 was manually annotated 3 times for cluster EA11.
•Start number 430 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:
•Start number 358 was manually annotated 1 time for cluster EA2.
•Start number 360 was manually annotated 12 times for cluster EA2.
•Start number 388 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA3:
•Start number 360 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 350 was manually annotated 2 times for cluster EA4.
•Start number 358 was manually annotated 7 times for cluster EA4.
•Start number 362 was manually annotated 3 times for cluster EA4.

Info for manual annotations of cluster EA5:
•Start number 358 was manually annotated 4 times for cluster EA5.
•Start number 360 was manually annotated 12 times for cluster EA5.

Info for manual annotations of cluster EA6:
•Start number 357 was manually annotated 2 times for cluster EA6.
•Start number 360 was manually annotated 4 times for cluster EA6.

•Start number 362 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA7:
•Start number 339 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:
•Start number 360 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 360 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster ED:
•Start number 253 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 250 was manually annotated 14 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 250 was manually annotated 15 times for cluster ED2.

Info for manual annotations of cluster EF:
•Start number 29 was manually annotated 1 time for cluster EF.
•Start number 58 was manually annotated 37 times for cluster EF.
•Start number 61 was manually annotated 6 times for cluster EF.

Info for manual annotations of cluster EJ:
•Start number 337 was manually annotated 1 time for cluster EJ.
•Start number 339 was manually annotated 20 times for cluster EJ.

Info for manual annotations of cluster EN:
•Start number 65 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster EP:
•Start number 342 was manually annotated 7 times for cluster EP.

Info for manual annotations of cluster FC:
•Start number 60 was manually annotated 17 times for cluster FC.

Info for manual annotations of cluster FM:
•Start number 171 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FR:
•Start number 64 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster GB:
•Start number 225 was manually annotated 5 times for cluster GB.

Info for manual annotations of cluster GD1:
•Start number 64 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

•Start number 64 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 57 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 64 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster H1:
•Start number 45 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster H2:
•Start number 42 was manually annotated 1 time for cluster H2.
•Start number 43 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster JD:
•Start number 190 was manually annotated 2 times for cluster JD.

Info for manual annotations of cluster R:
•Start number 188 was manually annotated 10 times for cluster R.

Info for manual annotations of cluster U:
•Start number 47 was manually annotated 4 times for cluster U.

Gene Information:

Gene: A3Wally_114 Start: 79188, Stop: 77338, Start Num: 64
Candidate Starts for A3Wally_114:
(40, 79257), (41, 79251), (Start: 64 @79188 has 19 MA's), (76, 79143), (Start: 80 @79131 has 2 MA's), (139, 79005), (164, 78942), (224, 78867), (288, 78759), (300, 78741), (341, 78672), (Start: 358 @78645 has 23 MA's), (444, 78585), (518, 78420), (587, 78276), (636, 78189), (647, 78162), (668, 78126), (671, 78117), (729, 78060), (731, 78054), (750, 78009), (757, 77997), (770, 77976), (786, 77952), (807, 77916), (852, 77871), (907, 77787), (909, 77784), (913, 77778), (949, 77715), (1000, 77613), (1030, 77526), (1048, 77484), (1068, 77433),

Gene: ASegato_82 Start: 49650, Stop: 48130, Start Num: 250
Candidate Starts for ASegato_82:
(230, 49683), (Start: 250 @49650 has 29 MA's), (281, 49599), (375, 49491), (419, 49425), (449, 49359), (513, 49242), (523, 49221), (552, 49164), (566, 49131), (568, 49128), (598, 49065), (622, 49014), (626, 49005), (631, 48996), (634, 48990), (641, 48966), (652, 48942), (673, 48903), (681, 48888), (713, 48837), (726, 48819), (767, 48726), (784, 48699), (814, 48654), (938, 48468), (995, 48360), (1005, 48330), (1020, 48285), (1040, 48234), (1070, 48171),

Gene: ASerpRocky_55 Start: 52672, Stop: 51098, Start Num: 185
Candidate Starts for ASerpRocky_55:
(Start: 126 @52804 has 9 MA's), (Start: 131 @52792 has 2 MA's), (174, 52693), (Start: 185 @52672 has 1 MA's), (227, 52606), (301, 52507), (321, 52471), (336, 52447), (343, 52438), (348, 52429), (380, 52381), (396, 52357), (Start: 430 @52315 has 1 MA's), (436, 52300), (469, 52225), (517, 52165), (518, 52162), (555, 52096), (558, 52093), (572, 52057), (574, 52054), (586, 52027), (591, 52015), (616, 51967), (640, 51934), (655, 51910), (668, 51886), (679, 51862), (732, 51796), (780, 51697), (849,

51598), (871, 51565), (873, 51562), (972, 51445), (974, 51442), (999, 51385), (1004, 51367), (1047, 51250), (1048, 51247), (1054, 51235), (1107, 51136), (1119, 51115),

Gene: Aaravos_55 Start: 39978, Stop: 41897, Start Num: 50
Candidate Starts for Aaravos_55:
(19, 39861), (20, 39882), (24, 39903), (Start: 37 @39933 has 1 MA's), (Start: 45 @39966 has 11 MA's), (Start: 50 @39978 has 13 MA's), (Start: 51 @39981 has 50 MA's), (56, 39990), (Start: 58 @39993 has 39 MA's), (67, 40008), (75, 40041), (87, 40074), (90, 40077), (115, 40143), (158, 40233), (168, 40251), (173, 40260), (178, 40269), (Start: 222 @40341 has 29 MA's), (296, 40461), (300, 40464), (335, 40524), (348, 40542), (399, 40614), (418, 40641), (509, 40776), (518, 40794), (538, 40836), (551, 40857), (554, 40863), (572, 40905), (581, 40926), (591, 40947), (610, 40983), (638, 41040), (642, 41052), (662, 41082), (666, 41091), (689, 41142), (745, 41238), (746, 41241), (832, 41352), (903, 41442), (918, 41469), (967, 41553), (1004, 41637), (1010, 41655), (1017, 41679), (1022, 41694), (1041, 41742), (1066, 41796), (1072, 41811), (1083, 41832), (1115, 41889),

Gene: Ablatia_188 Start: 101460, Stop: 99598, Start Num: 119
Candidate Starts for Ablatia_188:
(Start: 119 @101460 has 185 MA's), (Start: 145 @101400 has 1 MA's), (Start: 182 @101331 has 1 MA's), (420, 100959), (443, 100917), (449, 100899), (506, 100815), (518, 100791), (530, 100767), (532, 100764), (555, 100719), (579, 100668), (595, 100638), (601, 100626), (661, 100497), (713, 100404), (717, 100398), (746, 100335), (748, 100329), (811, 100233), (814, 100227), (879, 100116), (921, 100044), (948, 100011), (951, 100002), (1004, 99882), (1010, 99864), (1047, 99765), (1048, 99762), (1058, 99741), (1083, 99687), (1107, 99651),

Gene: Acosta_42 Start: 31547, Stop: 30141, Start Num: 356
Candidate Starts for Acosta_42:
(207, 31790), (283, 31649), (285, 31646), (286, 31643), (Start: 356 @31547 has 2 MA's), (445, 31400), (448, 31394), (503, 31277), (518, 31250), (551, 31190), (562, 31163), (563, 31160), (565, 31157), (611, 31064), (634, 31022), (715, 30860), (721, 30851), (732, 30830), (735, 30824), (809, 30731), (836, 30695), (847, 30671), (891, 30596), (966, 30482), (992, 30422), (1000, 30398), (1002, 30392), (1007, 30380), (1058, 30257), (1068, 30230), (1081, 30203),

Gene: Adelaide_46 Start: 37262, Stop: 38638, Start Num: 342
Candidate Starts for Adelaide_46:
(Start: 342 @37262 has 7 MA's), (391, 37331), (406, 37349), (450, 37442), (476, 37502), (478, 37508), (479, 37511), (539, 37631), (551, 37649), (607, 37766), (678, 37904), (695, 37943), (725, 37976), (727, 37982), (732, 37997), (748, 38036), (788, 38096), (801, 38120), (835, 38156), (872, 38225), (876, 38231), (939, 38312), (993, 38408), (998, 38420), (1003, 38432), (1021, 38489), (1024, 38495), (1029, 38507), (1039, 38537), (1064, 38588),

Gene: Adgers_62 Start: 52192, Stop: 50660, Start Num: 222
Candidate Starts for Adgers_62:
(102, 52447), (121, 52396), (165, 52291), (181, 52261), (Start: 194 @52228 has 3 MA's), (201, 52219), (Start: 222 @52192 has 29 MA's), (321, 52024), (348, 51982), (Start: 360 @51964 has 155 MA's), (380, 51934), (Start: 388 @51922 has 1 MA's), (396, 51910), (401, 51904), (412, 51883), (520, 51715), (565, 51628), (572, 51613), (578, 51601), (591, 51571), (668, 51442), (688, 51400), (695, 51382), (697, 51379), (726, 51370), (732, 51352), (780, 51265), (873, 51130), (883, 51115), (894, 51094), (972, 51013), (974, 51010), (999, 50953), (1000, 50947), (1004, 50935), (1020, 50884), (1030, 50860), (1047, 50821), (1052, 50809), (1054, 50806), (1097, 50713), (1107, 50698),

Gene: Ading_188 Start: 101295, Stop: 99433, Start Num: 119
Candidate Starts for Ading_188:

(Start: 119 @101295 has 185 MA's), (Start: 145 @101235 has 1 MA's), (Start: 182 @101166 has 1 MA's), (420, 100794), (443, 100752), (449, 100734), (506, 100650), (518, 100626), (530, 100602), (532, 100599), (555, 100554), (579, 100503), (595, 100473), (601, 100461), (661, 100332), (713, 100239), (717, 100233), (746, 100170), (748, 100164), (811, 100068), (814, 100062), (879, 99951), (921, 99879), (948, 99846), (951, 99837), (1004, 99717), (1010, 99699), (1047, 99600), (1048, 99597), (1058, 99576), (1083, 99522), (1107, 99486),

Gene: Adjutor_52 Start: 39669, Stop: 41612, Start Num: 51
Candidate Starts for Adjutor_52:
(Start: 51 @39669 has 50 MA's), (66, 39696), (88, 39768), (107, 39822), (140, 39882), (147, 39900), (150, 39909), (177, 39960), (195, 40002), (Start: 222 @40038 has 29 MA's), (271, 40125), (331, 40218), (341, 40233), (354, 40254), (433, 40356), (447, 40389), (458, 40413), (509, 40473), (554, 40560), (587, 40635), (639, 40725), (668, 40776), (669, 40779), (720, 40869), (731, 40887), (745, 40920), (778, 40974), (784, 40986), (796, 41004), (842, 41067), (903, 41151), (969, 41268), (989, 41316), (1011, 41379), (1041, 41463),

Gene: Adlitam_187 Start: 100283, Stop: 98421, Start Num: 119
Candidate Starts for Adlitam_187:
(Start: 119 @100283 has 185 MA's), (Start: 145 @100223 has 1 MA's), (Start: 182 @100154 has 1 MA's), (420, 99782), (443, 99740), (449, 99722), (506, 99638), (518, 99614), (530, 99590), (532, 99587), (555, 99542), (579, 99491), (595, 99461), (601, 99449), (661, 99320), (713, 99227), (717, 99221), (746, 99158), (748, 99152), (811, 99056), (814, 99050), (879, 98939), (921, 98867), (948, 98834), (951, 98825), (1004, 98705), (1010, 98687), (1047, 98588), (1048, 98585), (1058, 98564), (1083, 98510), (1107, 98474),

Gene: Aesir_39 Start: 25591, Stop: 27498, Start Num: 58
Candidate Starts for Aesir_39:
(17, 25417), (Start: 58 @25591 has 39 MA's), (83, 25654), (96, 25675), (115, 25729), (183, 25864), (202, 25906), (Start: 235 @25951 has 1 MA's), (341, 26125), (348, 26134), (409, 26224), (433, 26266), (440, 26281), (539, 26467), (610, 26602), (616, 26614), (639, 26647), (686, 26740), (731, 26776), (780, 26866), (796, 26893), (987, 27202), (990, 27205), (1010, 27265), (1044, 27355), (1058, 27385), (1074, 27427), (1102, 27478),

Gene: Agamotto_38 Start: 29155, Stop: 27347, Start Num: 64
Candidate Starts for Agamotto_38:
(Start: 44 @29200 has 1 MA's), (Start: 64 @29155 has 19 MA's), (Start: 80 @29095 has 2 MA's), (109, 29032), (173, 28894), (246, 28777), (Start: 252 @28765 has 13 MA's), (303, 28681), (447, 28543), (528, 28357), (572, 28264), (581, 28243), (671, 28072), (679, 28057), (731, 28009), (790, 27940), (794, 27934), (800, 27919), (842, 27880), (847, 27871), (856, 27853), (886, 27817), (888, 27814), (900, 27796), (906, 27778), (907, 27775), (993, 27622), (1004, 27589), (1013, 27562), (1019, 27541), (1030, 27514), (1067, 27424), (1092, 27373),

Gene: Agente005_41 Start: 31381, Stop: 29990, Start Num: 267
Candidate Starts for Agente005_41:
(Start: 267 @31381 has 6 MA's), (445, 31234), (448, 31228), (449, 31225), (503, 31111), (551, 31024), (562, 30997), (563, 30994), (611, 30898), (634, 30856), (721, 30685), (732, 30664), (743, 30637), (769, 30589), (836, 30529), (966, 30316), (973, 30298), (1000, 30232), (1002, 30226), (1007, 30214), (1045, 30118), (1068, 30064), (1070, 30061), (1098, 30007),

Gene: Aikoy_65 Start: 45786, Stop: 47714, Start Num: 51
Candidate Starts for Aikoy_65:
(Start: 51 @45786 has 50 MA's), (62, 45807), (71, 45837), (106, 45936), (140, 45999), (173, 46071), (178, 46080), (202, 46128), (341, 46344), (354, 46365), (373, 46386), (375, 46389), (Start: 388

@46401 has 1 MA's), (408, 46428), (467, 46551), (509, 46587), (543, 46659), (550, 46668), (565, 46701), (591, 46758), (597, 46770), (639, 46839), (642, 46848), (655, 46866), (668, 46890), (727, 46986), (731, 46998), (745, 47031), (769, 47073), (807, 47136), (891, 47241), (1002, 47457), (1010, 47481), (1011, 47484), (1025, 47526), (1036, 47556), (1050, 47580), (1109, 47697),

Gene: Ajin_42 Start: 26641, Stop: 28575, Start Num: 61
Candidate Starts for Ajin_42:
(13, 26401), (Start: 29 @26545 has 1 MA's), (Start: 57 @26635 has 1 MA's), (Start: 61 @26641 has 6 MA's), (115, 26788), (123, 26806), (Start: 126 @26815 has 9 MA's), (202, 26965), (281, 27091), (341, 27181), (348, 27190), (409, 27280), (433, 27322), (446, 27352), (518, 27484), (616, 27670), (625, 27688), (639, 27703), (668, 27760), (727, 27820), (759, 27892), (848, 28030), (894, 28096), (906, 28126), (950, 28204), (990, 28282), (1010, 28342), (1022, 28381), (1044, 28432), (1054, 28450), (1104, 28558),

Gene: Alakazam_40 Start: 30804, Stop: 29374, Start Num: 358
Candidate Starts for Alakazam_40:
(Start: 358 @30804 has 23 MA's), (380, 30771), (448, 30651), (449, 30648), (474, 30588), (497, 30537), (509, 30516), (515, 30504), (562, 30411), (563, 30408), (630, 30276), (686, 30153), (721, 30096), (732, 30075), (743, 30048), (748, 30036), (763, 30015), (798, 29958), (809, 29937), (836, 29901), (841, 29889), (862, 29847), (878, 29820), (887, 29805), (932, 29742), (944, 29730), (989, 29634), (993, 29625), (999, 29610), (1000, 29604), (1002, 29598), (1048, 29481), (1058, 29463), (1061, 29451), (1081, 29409),

Gene: Albanese_29 Start: 22144, Stop: 23535, Start Num: 333
Candidate Starts for Albanese_29:
(Start: 333 @22144 has 73 MA's), (406, 22231), (448, 22303), (449, 22306), (476, 22369), (477, 22372), (484, 22390), (486, 22396), (512, 22423), (544, 22480), (566, 22531), (588, 22570), (607, 22606), (616, 22624), (634, 22660), (640, 22681), (646, 22699), (677, 22732), (699, 22771), (730, 22813), (740, 22840), (753, 22864), (773, 22900), (778, 22906), (798, 22939), (804, 22954), (814, 22963), (840, 23008), (857, 23041), (858, 23044), (914, 23128), (926, 23149), (934, 23161), (944, 23179), (988, 23269), (997, 23290), (998, 23293), (1007, 23317), (1009, 23326), (1038, 23413), (1084, 23503), (1094, 23527),

Gene: Aledel_26 Start: 21745, Stop: 23139, Start Num: 333
Candidate Starts for Aledel_26:
(Start: 333 @21745 has 73 MA's), (381, 21802), (441, 21889), (448, 21907), (449, 21910), (484, 21994), (512, 22027), (540, 22078), (544, 22084), (571, 22144), (588, 22174), (607, 22210), (616, 22228), (640, 22285), (646, 22303), (651, 22309), (677, 22336), (730, 22417), (740, 22444), (753, 22468), (763, 22483), (778, 22510), (798, 22543), (804, 22558), (888, 22690), (908, 22726), (926, 22753), (934, 22765), (944, 22783), (988, 22873), (990, 22879), (997, 22894), (998, 22897), (1009, 22930), (1030, 22990), (1038, 23017), (1067, 23074), (1084, 23107), (1094, 23131),

Gene: Alephilan_60 Start: 40725, Stop: 42638, Start Num: 51
Candidate Starts for Alephilan_60:
(20, 40599), (21, 40608), (24, 40620), (28, 40653), (Start: 50 @40722 has 13 MA's), (Start: 51 @40725 has 50 MA's), (Start: 58 @40737 has 39 MA's), (75, 40785), (87, 40818), (158, 40977), (173, 41004), (178, 41013), (Start: 222 @41085 has 29 MA's), (293, 41202), (296, 41205), (335, 41268), (355, 41295), (399, 41358), (418, 41385), (506, 41514), (518, 41538), (538, 41580), (562, 41628), (572, 41649), (581, 41670), (610, 41727), (618, 41745), (638, 41781), (662, 41823), (689, 41883), (745, 41979), (746, 41982), (918, 42210), (969, 42300), (989, 42336), (992, 42342), (1010, 42396), (1022, 42435), (1066, 42537), (1072, 42552), (1083, 42573),

Gene: AlexAdler_41 Start: 31109, Stop: 29721, Start Num: 360

Candidate Starts for AlexAdler_41:
(220, 31331), (Start: 360 @31109 has 155 MA's), (445, 30965), (448, 30959), (449, 30956), (503, 30842), (518, 30815), (551, 30755), (562, 30728), (563, 30725), (611, 30629), (634, 30587), (721, 30416), (732, 30395), (738, 30380), (743, 30368), (769, 30320), (836, 30260), (887, 30164), (932, 30101), (966, 30047), (1000, 29963), (1002, 29957), (1007, 29945), (1045, 29849), (1068, 29795), (1070, 29792), (1081, 29768),

Gene: Aleyra_41 Start: 31239, Stop: 29995, Start Num: 445
Candidate Starts for Aleyra_41:
(Start: 267 @31386 has 6 MA's), (445, 31239), (448, 31233), (449, 31230), (503, 31116), (551, 31029), (562, 31002), (563, 30999), (595, 30933), (611, 30903), (634, 30861), (721, 30690), (732, 30669), (743, 30642), (769, 30594), (836, 30534), (966, 30321), (973, 30303), (1000, 30237), (1002, 30231), (1007, 30219), (1045, 30123), (1068, 30069), (1070, 30066), (1098, 30012),

Gene: Alleb_76 Start: 48902, Stop: 47379, Start Num: 250
Candidate Starts for Alleb_76:
(214, 48968), (226, 48941), (Start: 250 @48902 has 29 MA's), (363, 48752), (375, 48743), (435, 48647), (448, 48614), (459, 48587), (482, 48533), (515, 48488), (517, 48485), (566, 48380), (568, 48377), (626, 48254), (631, 48245), (635, 48233), (660, 48179), (713, 48086), (766, 47978), (784, 47948), (787, 47942), (789, 47939), (792, 47936), (814, 47903), (822, 47891), (903, 47765), (938, 47717), (986, 47627), (995, 47609), (1012, 47561), (1061, 47438),

Gene: Alone3_128 Start: 69071, Stop: 70642, Start Num: 244
Candidate Starts for Alone3_128:
(Start: 244 @69071 has 6 MA's), (307, 69152), (323, 69176), (372, 69242), (Start: 430 @69323 has 1 MA's), (458, 69389), (508, 69455), (513, 69464), (552, 69542), (573, 69593), (620, 69695), (630, 69716), (631, 69719), (656, 69770), (661, 69779), (668, 69794), (674, 69806), (696, 69854), (713, 69869), (881, 70139), (888, 70151), (903, 70175), (963, 70262), (1007, 70367), (1049, 70487), (1056, 70499), (1081, 70556), (1086, 70568), (1091, 70574), (1121, 70622),

Gene: Alove_33 Start: 23258, Stop: 24685, Start Num: 339
Candidate Starts for Alove_33:
(314, 23216), (Start: 339 @23258 has 21 MA's), (524, 23576), (599, 23723), (607, 23744), (749, 24011), (778, 24059), (791, 24080), (827, 24137), (842, 24170), (860, 24206), (914, 24284), (926, 24305), (973, 24386), (975, 24389), (1009, 24476), (1013, 24488), (1026, 24527), (1038, 24563), (1042, 24569), (1047, 24581), (1078, 24644),

Gene: Alyssamiracle_63 Start: 39828, Stop: 41744, Start Num: 50
Candidate Starts for Alyssamiracle_63:
(Start: 50 @39828 has 13 MA's), (Start: 51 @39831 has 50 MA's), (Start: 58 @39843 has 39 MA's), (75, 39891), (87, 39924), (158, 40083), (173, 40110), (178, 40119), (Start: 222 @40191 has 29 MA's), (296, 40311), (335, 40374), (399, 40464), (418, 40491), (506, 40620), (518, 40644), (538, 40686), (543, 40698), (554, 40713), (562, 40734), (572, 40755), (581, 40776), (610, 40833), (618, 40851), (638, 40887), (662, 40929), (689, 40989), (745, 41085), (746, 41088), (881, 41265), (918, 41316), (969, 41406), (989, 41442), (992, 41448), (1010, 41502), (1022, 41541), (1066, 41643), (1072, 41658), (1083, 41679),

Gene: Alyxandracam_41 Start: 31119, Stop: 29731, Start Num: 360
Candidate Starts for Alyxandracam_41:
(Start: 49 @31770 has 8 MA's), (187, 31416), (220, 31341), (Start: 360 @31119 has 155 MA's), (445, 30975), (448, 30969), (449, 30966), (503, 30852), (518, 30825), (551, 30765), (562, 30738), (563, 30735), (611, 30639), (634, 30597), (721, 30426), (738, 30390), (743, 30378), (763, 30345), (769, 30330), (836, 30270), (887, 30174), (932, 30111), (966, 30057), (1000, 29973), (1002, 29967), (1007,

29955), (1045, 29859), (1068, 29805), (1070, 29802), (1081, 29778),

Gene: AmandaPanda_66 Start: 46318, Stop: 48255, Start Num: 54
Candidate Starts for AmandaPanda_66:
(15, 46123), (22, 46198), (23, 46204), (Start: 43 @46291 has 1 MA's), (Start: 51 @46312 has 50 MA's), (54, 46318), (Start: 59 @46324 has 5 MA's), (72, 46357), (81, 46390), (102, 46438), (108, 46459), (120, 46486), (138, 46510), (163, 46573), (172, 46591), (Start: 182 @46609 has 1 MA's), (187, 46621), (202, 46654), (229, 46696), (Start: 243 @46717 has 5 MA's), (246, 46720), (255, 46738), (274, 46771), (278, 46777), (296, 46801), (300, 46804), (344, 46876), (474, 47095), (506, 47110), (543, 47188), (581, 47266), (618, 47341), (636, 47374), (720, 47536), (727, 47542), (784, 47668), (786, 47671), (826, 47707), (832, 47713), (907, 47797), (926, 47830), (985, 47941), (989, 47944), (993, 47953), (1004, 47986), (1011, 48007), (1025, 48049), (1055, 48112), (1065, 48139), (1108, 48223),

Gene: Amataga_188 Start: 99711, Stop: 97849, Start Num: 119
Candidate Starts for Amataga_188:
(Start: 119 @99711 has 185 MA's), (Start: 145 @99651 has 1 MA's), (Start: 182 @99582 has 1 MA's), (420, 99210), (443, 99168), (449, 99150), (506, 99066), (518, 99042), (530, 99018), (532, 99015), (555, 98970), (579, 98919), (595, 98889), (601, 98877), (661, 98748), (713, 98655), (717, 98649), (746, 98586), (748, 98580), (811, 98484), (814, 98478), (879, 98367), (921, 98295), (948, 98262), (951, 98253), (1004, 98133), (1010, 98115), (1047, 98016), (1048, 98013), (1058, 97992), (1083, 97938), (1107, 97902),

Gene: Amavida_72 Start: 47198, Stop: 45804, Start Num: 252
Candidate Starts for Amavida_72:
(Start: 252 @47198 has 13 MA's), (311, 47129), (363, 47054), (381, 47036), (403, 47006), (447, 46925), (459, 46895), (468, 46871), (602, 46631), (622, 46592), (677, 46478), (719, 46427), (743, 46406), (760, 46376), (767, 46361), (773, 46349), (848, 46268), (897, 46220), (915, 46193), (927, 46172), (976, 46088), (1005, 46022), (1084, 45833), (1088, 45821),

Gene: Amigo_71 Start: 47416, Stop: 46022, Start Num: 252
Candidate Starts for Amigo_71:
(Start: 252 @47416 has 13 MA's), (311, 47347), (363, 47272), (381, 47254), (403, 47224), (447, 47143), (602, 46849), (622, 46810), (677, 46696), (743, 46624), (760, 46594), (767, 46579), (773, 46567), (824, 46516), (875, 46465), (892, 46447), (897, 46438), (927, 46390), (1005, 46240), (1084, 46051),

Gene: Amore2_62 Start: 52713, Stop: 51082, Start Num: 144
Candidate Starts for Amore2_62:
(Start: 144 @52713 has 3 MA's), (149, 52701), (176, 52650), (179, 52644), (216, 52587), (321, 52446), (348, 52404), (Start: 357 @52392 has 5 MA's), (380, 52356), (382, 52353), (401, 52326), (Start: 430 @52290 has 1 MA's), (435, 52278), (444, 52263), (510, 52155), (565, 52050), (572, 52035), (640, 51912), (668, 51864), (679, 51840), (688, 51822), (732, 51774), (755, 51723), (780, 51687), (791, 51669), (873, 51552), (927, 51501), (957, 51459), (989, 51399), (1004, 51357), (1020, 51306), (1030, 51282), (1107, 51120), (1119, 51099),

Gene: Anakin_40 Start: 25911, Stop: 27818, Start Num: 58
Candidate Starts for Anakin_40:
(Start: 58 @25911 has 39 MA's), (83, 25974), (96, 25995), (115, 26049), (202, 26226), (Start: 235 @26271 has 1 MA's), (341, 26445), (348, 26454), (409, 26544), (440, 26601), (539, 26787), (610, 26922), (616, 26934), (639, 26967), (731, 27096), (796, 27213), (856, 27288), (987, 27522), (990, 27525), (1010, 27585), (1044, 27675), (1058, 27705), (1074, 27747), (1102, 27798),

Gene: Anamika_57 Start: 52887, Stop: 51475, Start Num: 294

Candidate Starts for Anamika_57:
(102, 53235), (154, 53106), (192, 53019), (Start: 194 @53016 has 3 MA's), (Start: 294 @52887 has 29 MA's), (321, 52842), (380, 52752), (382, 52749), (386, 52743), (401, 52722), (444, 52659), (510, 52551), (520, 52533), (565, 52446), (572, 52431), (591, 52389), (640, 52308), (668, 52260), (688, 52218), (695, 52200), (697, 52197), (732, 52170), (755, 52119), (780, 52083), (810, 52032), (873, 51948), (886, 51927), (999, 51771), (1000, 51765), (1004, 51753), (1052, 51627), (1107, 51513),

Gene: Anansi_70 Start: 47020, Stop: 45626, Start Num: 252
Candidate Starts for Anansi_70:
(Start: 252 @47020 has 13 MA's), (311, 46951), (363, 46876), (381, 46858), (403, 46828), (447, 46747), (527, 46597), (602, 46453), (622, 46414), (677, 46300), (719, 46249), (743, 46228), (760, 46198), (767, 46183), (773, 46171), (848, 46090), (897, 46042), (915, 46015), (927, 45994), (976, 45910), (1005, 45844), (1084, 45655), (1088, 45643),

Gene: Andromedas_40 Start: 31099, Stop: 29687, Start Num: 360
Candidate Starts for Andromedas_40:
(Start: 360 @31099 has 155 MA's), (384, 31069), (Start: 388 @31063 has 1 MA's), (411, 31030), (503, 30838), (518, 30811), (551, 30751), (562, 30724), (563, 30721), (583, 30679), (611, 30625), (634, 30583), (686, 30469), (721, 30412), (732, 30391), (738, 30376), (743, 30364), (748, 30352), (750, 30349), (763, 30331), (809, 30250), (836, 30214), (862, 30160), (887, 30118), (907, 30088), (923, 30064), (930, 30058), (958, 30016), (989, 29947), (999, 29923), (1000, 29917), (1002, 29911), (1007, 29899), (1045, 29803), (1048, 29794), (1058, 29776), (1061, 29764), (1083, 29719),

Gene: Anilorac_40 Start: 31339, Stop: 29834, Start Num: 279
Candidate Starts for Anilorac_40:
(261, 31363), (Start: 279 @31339 has 1 MA's), (296, 31318), (338, 31255), (Start: 358 @31225 has 23 MA's), (445, 31078), (448, 31072), (449, 31069), (503, 30955), (551, 30868), (562, 30841), (563, 30838), (611, 30742), (634, 30700), (721, 30529), (732, 30508), (743, 30481), (769, 30433), (836, 30373), (966, 30160), (973, 30142), (999, 30082), (1000, 30076), (1002, 30070), (1007, 30058), (1045, 29962), (1068, 29908), (1070, 29905), (1098, 29851),

Gene: AnnaSerena_40 Start: 25946, Stop: 27853, Start Num: 58
Candidate Starts for AnnaSerena_40:
(Start: 58 @25946 has 39 MA's), (83, 26009), (96, 26030), (115, 26084), (202, 26261), (Start: 235 @26306 has 1 MA's), (341, 26480), (348, 26489), (409, 26579), (440, 26636), (539, 26822), (610, 26957), (616, 26969), (639, 27002), (731, 27131), (796, 27248), (856, 27323), (987, 27557), (990, 27560), (1010, 27620), (1044, 27710), (1058, 27740), (1074, 27782), (1102, 27833),

Gene: AnnabelLee_38 Start: 26373, Stop: 24541, Start Num: 64
Candidate Starts for AnnabelLee_38:
(Start: 64 @26373 has 19 MA's), (Start: 80 @26316 has 2 MA's), (173, 26115), (Start: 252 @25980 has 13 MA's), (331, 25845), (348, 25818), (447, 25761), (453, 25746), (472, 25692), (518, 25596), (521, 25590), (528, 25575), (552, 25530), (572, 25482), (581, 25461), (589, 25443), (616, 25392), (666, 25299), (671, 25287), (731, 25224), (777, 25152), (812, 25092), (842, 25071), (888, 25005), (900, 24987), (906, 24969), (907, 24966), (927, 24930), (989, 24822), (993, 24813), (1013, 24753), (1030, 24705),

Gene: Annapurna_40 Start: 25220, Stop: 27127, Start Num: 58
Candidate Starts for Annapurna_40:
(17, 25046), (Start: 58 @25220 has 39 MA's), (83, 25283), (96, 25304), (115, 25358), (183, 25493), (202, 25535), (Start: 235 @25580 has 1 MA's), (341, 25754), (348, 25763), (409, 25853), (433, 25895), (440, 25910), (539, 26096), (610, 26231), (616, 26243), (639, 26276), (731, 26405), (796, 26522), (969, 26795), (990, 26834), (1010, 26894), (1044, 26984), (1058, 27014), (1074, 27056), (1102,

27107),

Gene: Antoinette_41 Start: 31109, Stop: 29721, Start Num: 360
Candidate Starts for Antoinette_41:
(220, 31331), (Start: 360 @31109 has 155 MA's), (445, 30965), (448, 30959), (449, 30956), (503, 30842), (518, 30815), (551, 30755), (562, 30728), (563, 30725), (611, 30629), (634, 30587), (721, 30416), (732, 30395), (738, 30380), (743, 30368), (769, 30320), (836, 30260), (887, 30164), (932, 30101), (966, 30047), (1000, 29963), (1002, 29957), (1007, 29945), (1033, 29870), (1045, 29849), (1068, 29795), (1070, 29792), (1081, 29768),

Gene: Apeppi_55 Start: 40047, Stop: 41966, Start Num: 51
Candidate Starts for Apeppi_55:
(19, 39927), (20, 39948), (24, 39969), (Start: 37 @39999 has 1 MA's), (Start: 45 @40032 has 11 MA's), (Start: 50 @40044 has 13 MA's), (Start: 51 @40047 has 50 MA's), (Start: 58 @40062 has 39 MA's), (67, 40077), (75, 40110), (87, 40143), (90, 40146), (106, 40194), (115, 40212), (158, 40302), (168, 40320), (173, 40329), (178, 40338), (Start: 222 @40410 has 29 MA's), (296, 40530), (300, 40533), (335, 40593), (348, 40611), (399, 40683), (418, 40710), (509, 40845), (518, 40863), (538, 40905), (551, 40926), (554, 40932), (572, 40974), (581, 40995), (591, 41016), (610, 41052), (662, 41151), (666, 41160), (689, 41211), (745, 41307), (746, 41310), (832, 41421), (881, 41487), (903, 41511), (918, 41538), (1004, 41706), (1010, 41724), (1017, 41748), (1022, 41763), (1025, 41769), (1041, 41811), (1050, 41826), (1066, 41865), (1072, 41880), (1083, 41901), (1115, 41958),

Gene: Apiary_72 Start: 53146, Stop: 51110, Start Num: 36
Candidate Starts for Apiary_72:
(12, 53314), (Start: 36 @53146 has 6 MA's), (56, 53080), (75, 53038), (Start: 200 @52753 has 9 MA's), (Start: 243 @52696 has 5 MA's), (271, 52645), (281, 52630), (341, 52540), (348, 52528), (409, 52435), (454, 52363), (509, 52294), (543, 52222), (572, 52165), (668, 51985), (679, 51961), (710, 51898), (731, 51862), (778, 51775), (856, 51643), (888, 51604), (889, 51601), (907, 51556), (989, 51409), (1011, 51346), (1025, 51304), (1041, 51265), (1055, 51241),

Gene: ApoKipo_99 Start: 56676, Stop: 58337, Start Num: 287
Candidate Starts for ApoKipo_99:
(Start: 287 @56676 has 9 MA's), (325, 56736), (368, 56796), (385, 56823), (478, 56997), (483, 57009), (542, 57129), (559, 57165), (570, 57189), (588, 57234), (604, 57270), (607, 57276), (631, 57324), (645, 57366), (712, 57486), (742, 57549), (759, 57582), (775, 57612), (785, 57630), (786, 57633), (804, 57666), (827, 57699), (854, 57756), (890, 57825), (924, 57882), (963, 57954), (975, 57981), (985, 58008), (1013, 58083), (1021, 58110), (1038, 58158), (1058, 58191), (1060, 58200), (1061, 58203), (1076, 58236), (1105, 58290), (1112, 58302), (1114, 58305), (1117, 58311),

Gene: AppleCider_29 Start: 22130, Stop: 23524, Start Num: 333
Candidate Starts for AppleCider_29:
(Start: 333 @22130 has 73 MA's), (381, 22187), (448, 22292), (484, 22379), (540, 22463), (542, 22466), (544, 22469), (588, 22559), (607, 22595), (612, 22604), (640, 22670), (646, 22688), (677, 22721), (686, 22733), (730, 22802), (740, 22829), (753, 22853), (773, 22889), (778, 22895), (798, 22928), (804, 22943), (814, 22952), (863, 23042), (908, 23111), (926, 23138), (939, 23156), (944, 23168), (988, 23258), (990, 23264), (994, 23273), (997, 23279), (1009, 23315), (1038, 23402), (1065, 23453), (1084, 23492), (1094, 23516),

Gene: ArV1_077 Start: 57342, Stop: 59084, Start Num: 159
Candidate Starts for ArV1_077:
(Start: 159 @57342 has 18 MA's), (168, 57363), (172, 57369), (213, 57459), (238, 57510), (242, 57519), (258, 57546), (261, 57558), (322, 57660), (370, 57732), (375, 57741), (406, 57783), (441, 57837), (444, 57843), (445, 57846), (450, 57861), (500, 57963), (511, 57981), (531, 58020), (535,

58026), (542, 58041), (564, 58092), (571, 58104), (613, 58185), (667, 58290), (680, 58317), (682, 58320), (725, 58380), (747, 58437), (779, 58482), (791, 58500), (818, 58548), (827, 58560), (837, 58572), (842, 58593), (855, 58617), (867, 58641), (876, 58659), (928, 58743), (942, 58767), (960, 58794), (964, 58800), (977, 58830), (978, 58836), (1021, 58947), (1024, 58953), (1041, 58995), (1079, 59076),

Gene: Araceli_42 Start: 30875, Stop: 32269, Start Num: 346
Candidate Starts for Araceli_42:
(Start: 346 @30875 has 14 MA's), (Start: 349 @30878 has 3 MA's), (400, 30953), (416, 30977), (443, 31007), (444, 31010), (448, 31022), (463, 31055), (493, 31112), (516, 31136), (540, 31181), (544, 31187), (571, 31247), (582, 31268), (612, 31322), (661, 31421), (678, 31448), (683, 31457), (749, 31583), (778, 31631), (791, 31652), (798, 31664), (804, 31679), (827, 31709), (842, 31742), (847, 31751), (870, 31793), (910, 31859), (914, 31862), (926, 31883), (939, 31901), (948, 31919), (975, 31973), (988, 32003), (1009, 32060), (1010, 32063), (1026, 32111), (1047, 32165), (1082, 32234), (1090, 32252),

Gene: AranulaLuti_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for AranulaLuti_40:
(16, 31619), (Start: 49 @31454 has 8 MA's), (187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: ArcherS7_187 Start: 100741, Stop: 98879, Start Num: 119
Candidate Starts for ArcherS7_187:
(Start: 119 @100741 has 185 MA's), (Start: 145 @100681 has 1 MA's), (Start: 182 @100612 has 1 MA's), (420, 100240), (443, 100198), (449, 100180), (506, 100096), (518, 100072), (530, 100048), (532, 100045), (555, 100000), (579, 99949), (595, 99919), (601, 99907), (661, 99778), (713, 99685), (717, 99679), (746, 99616), (748, 99610), (811, 99514), (814, 99508), (879, 99397), (921, 99325), (948, 99292), (951, 99283), (1004, 99163), (1010, 99145), (1047, 99046), (1048, 99043), (1058, 99022), (1083, 98968), (1107, 98932),

Gene: Archimedes_37 Start: 33084, Stop: 31684, Start Num: 346
Candidate Starts for Archimedes_37:
(Start: 346 @33084 has 14 MA's), (375, 33042), (400, 33006), (412, 32988), (416, 32982), (443, 32952), (448, 32937), (449, 32934), (484, 32850), (610, 32628), (616, 32616), (678, 32502), (749, 32376), (758, 32364), (768, 32343), (769, 32340), (778, 32328), (798, 32295), (804, 32280), (822, 32256), (842, 32220), (847, 32211), (908, 32112), (944, 32055), (951, 32043), (955, 32037), (994, 31950), (1002, 31929), (1009, 31908), (1042, 31815), (1096, 31689),

Gene: Arti_71 Start: 55496, Stop: 53430, Start Num: 35
Candidate Starts for Arti_71:
(8, 55700), (9, 55688), (11, 55670), (Start: 35 @55496 has 37 MA's), (Start: 80 @55358 has 2 MA's), (92, 55334), (178, 55130), (Start: 200 @55085 has 9 MA's), (271, 54977), (345, 54863), (348, 54860), (409, 54770), (411, 54767), (450, 54707), (538, 54569), (547, 54551), (561, 54527), (618, 54404), (668, 54299), (731, 54173), (755, 54119), (834, 53993), (842, 53984), (854, 53960), (903, 53888), (907, 53882), (925, 53852), (957, 53795), (989, 53735), (1011, 53672), (1041, 53591),

Gene: Artiphact_40 Start: 25935, Stop: 27842, Start Num: 58
Candidate Starts for Artiphact_40:
(Start: 58 @25935 has 39 MA's), (83, 25998), (96, 26019), (115, 26073), (202, 26250), (Start: 235 @26295 has 1 MA's), (341, 26469), (348, 26478), (409, 26568), (440, 26625), (539, 26811), (610,

26946), (616, 26958), (639, 26991), (731, 27120), (796, 27237), (856, 27312), (987, 27546), (990, 27549), (1010, 27609), (1044, 27699), (1058, 27729), (1074, 27771), (1102, 27822),

Gene: Artu_91 Start: 77224, Stop: 79068, Start Num: 60
Candidate Starts for Artu_91:
(Start: 60 @77224 has 17 MA's), (167, 77497), (Start: 252 @77605 has 13 MA's), (290, 77671), (331, 77740), (336, 77749), (447, 77824), (591, 78133), (614, 78178), (638, 78217), (647, 78238), (671, 78283), (729, 78340), (731, 78346), (745, 78379), (750, 78391), (757, 78403), (842, 78520), (846, 78526), (906, 78616), (925, 78649), (970, 78733), (1011, 78826), (1018, 78850), (1089, 79018), (1092, 79021),

Gene: Asta_40 Start: 30816, Stop: 29428, Start Num: 360
Candidate Starts for Asta_40:
(220, 31038), (Start: 360 @30816 has 155 MA's), (445, 30672), (448, 30666), (449, 30663), (503, 30549), (518, 30522), (551, 30462), (562, 30435), (563, 30432), (608, 30339), (611, 30336), (634, 30294), (721, 30123), (732, 30102), (738, 30087), (743, 30075), (769, 30027), (836, 29967), (887, 29871), (932, 29808), (966, 29754), (1000, 29670), (1002, 29664), (1007, 29652), (1033, 29577), (1045, 29556), (1068, 29502), (1070, 29499), (1081, 29475),

Gene: Asterius_189 Start: 100428, Stop: 98566, Start Num: 119
Candidate Starts for Asterius_189:
(Start: 119 @100428 has 185 MA's), (Start: 145 @100368 has 1 MA's), (Start: 182 @100299 has 1 MA's), (420, 99927), (443, 99885), (449, 99867), (506, 99783), (518, 99759), (530, 99735), (532, 99732), (555, 99687), (579, 99636), (595, 99606), (601, 99594), (661, 99465), (713, 99372), (717, 99366), (746, 99303), (748, 99297), (811, 99201), (814, 99195), (879, 99084), (921, 99012), (948, 98979), (951, 98970), (1004, 98850), (1010, 98832), (1047, 98733), (1048, 98730), (1058, 98709), (1083, 98655), (1107, 98619),

Gene: Astraea_182 Start: 99803, Stop: 97941, Start Num: 119
Candidate Starts for Astraea_182:
(Start: 119 @99803 has 185 MA's), (Start: 145 @99743 has 1 MA's), (Start: 182 @99674 has 1 MA's), (420, 99302), (443, 99260), (449, 99242), (506, 99158), (518, 99134), (530, 99110), (532, 99107), (555, 99062), (579, 99011), (595, 98981), (601, 98969), (661, 98840), (713, 98747), (717, 98741), (746, 98678), (748, 98672), (811, 98576), (814, 98570), (879, 98459), (921, 98387), (948, 98354), (951, 98345), (1004, 98225), (1010, 98207), (1047, 98108), (1048, 98105), (1058, 98084), (1083, 98030), (1107, 97994),

Gene: Astralis_60 Start: 39409, Stop: 41322, Start Num: 51
Candidate Starts for Astralis_60:
(Start: 50 @39406 has 13 MA's), (Start: 51 @39409 has 50 MA's), (Start: 58 @39421 has 39 MA's), (75, 39469), (87, 39502), (158, 39661), (173, 39688), (178, 39697), (Start: 222 @39769 has 29 MA's), (296, 39889), (335, 39952), (399, 40042), (418, 40069), (506, 40198), (518, 40222), (538, 40264), (543, 40276), (554, 40291), (562, 40312), (572, 40333), (581, 40354), (610, 40411), (618, 40429), (638, 40465), (662, 40507), (689, 40567), (745, 40663), (746, 40666), (881, 40843), (918, 40894), (969, 40984), (989, 41020), (992, 41026), (1010, 41080), (1022, 41119), (1066, 41221), (1072, 41236), (1083, 41257),

Gene: Atlantean_187 Start: 99711, Stop: 97849, Start Num: 119
Candidate Starts for Atlantean_187:
(Start: 119 @99711 has 185 MA's), (Start: 145 @99651 has 1 MA's), (Start: 182 @99582 has 1 MA's), (420, 99210), (443, 99168), (449, 99150), (506, 99066), (518, 99042), (530, 99018), (532, 99015), (555, 98970), (579, 98919), (595, 98889), (601, 98877), (661, 98748), (713, 98655), (717, 98649), (746, 98586), (748, 98580), (811, 98484), (814, 98478), (879, 98367), (921, 98295), (948, 98262),

(951, 98253), (1004, 98133), (1010, 98115), (1047, 98016), (1048, 98013), (1058, 97992), (1083, 97938), (1107, 97902),

Gene: Atuin_95 Start: 80621, Stop: 82477, Start Num: 60
Candidate Starts for Atuin_95:
(Start: 60 @80621 has 17 MA's), (167, 80894), (Start: 252 @80999 has 13 MA's), (323, 81122), (331, 81134), (336, 81143), (455, 81239), (487, 81314), (518, 81374), (591, 81527), (614, 81572), (647, 81632), (671, 81677), (729, 81734), (731, 81740), (745, 81773), (750, 81785), (757, 81797), (842, 81914), (843, 81917), (888, 81974), (906, 82010), (913, 82022), (925, 82043), (970, 82127), (1011, 82220), (1018, 82244), (1089, 82412), (1092, 82415),

Gene: Aubergine_40 Start: 30816, Stop: 29428, Start Num: 360
Candidate Starts for Aubergine_40:
(220, 31038), (Start: 360 @30816 has 155 MA's), (445, 30672), (448, 30666), (449, 30663), (503, 30549), (518, 30522), (551, 30462), (562, 30435), (563, 30432), (611, 30336), (634, 30294), (721, 30123), (732, 30102), (738, 30087), (769, 30027), (836, 29967), (887, 29871), (932, 29808), (966, 29754), (1000, 29670), (1002, 29664), (1007, 29652), (1045, 29556), (1068, 29502), (1070, 29499), (1081, 29475),

Gene: Audell_37 Start: 28742, Stop: 26934, Start Num: 64
Candidate Starts for Audell_37:
(Start: 64 @28742 has 19 MA's), (Start: 80 @28682 has 2 MA's), (109, 28619), (170, 28487), (173, 28481), (246, 28364), (Start: 252 @28352 has 13 MA's), (303, 28268), (447, 28130), (528, 27944), (572, 27851), (581, 27830), (587, 27818), (671, 27659), (679, 27644), (694, 27614), (731, 27596), (790, 27527), (794, 27521), (800, 27506), (825, 27479), (842, 27467), (847, 27458), (856, 27440), (886, 27404), (888, 27401), (900, 27383), (906, 27365), (907, 27362), (993, 27209), (1004, 27176), (1013, 27149), (1019, 27128), (1030, 27101), (1067, 27011), (1092, 26960),

Gene: Audrick_191 Start: 100393, Stop: 98531, Start Num: 119
Candidate Starts for Audrick_191:
(Start: 119 @100393 has 185 MA's), (Start: 145 @100333 has 1 MA's), (Start: 182 @100264 has 1 MA's), (420, 99892), (443, 99850), (449, 99832), (506, 99748), (518, 99724), (530, 99700), (532, 99697), (555, 99652), (579, 99601), (595, 99571), (601, 99559), (661, 99430), (713, 99337), (717, 99331), (746, 99268), (748, 99262), (811, 99166), (814, 99160), (879, 99049), (921, 98977), (948, 98944), (951, 98935), (1004, 98815), (1010, 98797), (1047, 98698), (1048, 98695), (1058, 98674), (1083, 98620), (1107, 98584),

Gene: Austin_61 Start: 52711, Stop: 51080, Start Num: 144
Candidate Starts for Austin_61:
(Start: 144 @52711 has 3 MA's), (149, 52699), (176, 52648), (179, 52642), (216, 52585), (321, 52444), (348, 52402), (Start: 357 @52390 has 5 MA's), (380, 52354), (382, 52351), (401, 52324), (Start: 430 @52288 has 1 MA's), (435, 52276), (444, 52261), (510, 52153), (565, 52048), (572, 52033), (640, 51910), (668, 51862), (679, 51838), (688, 51820), (732, 51772), (755, 51721), (780, 51685), (791, 51667), (873, 51550), (927, 51499), (957, 51457), (989, 51397), (1004, 51355), (1020, 51304), (1030, 51280), (1107, 51118), (1119, 51097),

Gene: AustinPowers_26 Start: 21746, Stop: 23140, Start Num: 333
Candidate Starts for AustinPowers_26:
(Start: 333 @21746 has 73 MA's), (381, 21803), (441, 21890), (448, 21908), (449, 21911), (484, 21995), (512, 22028), (540, 22079), (544, 22085), (571, 22145), (588, 22175), (607, 22211), (616, 22229), (634, 22265), (640, 22286), (646, 22304), (651, 22310), (677, 22337), (730, 22418), (740, 22445), (753, 22469), (763, 22484), (778, 22511), (798, 22544), (804, 22559), (908, 22727), (926, 22754), (934, 22766), (944, 22784), (988, 22874), (990, 22880), (997, 22895), (998, 22898), (1030,

22991), (1038, 23018), (1067, 23075), (1084, 23108), (1094, 23132),

Gene: Ava3_187 Start: 100454, Stop: 98592, Start Num: 119
Candidate Starts for Ava3_187:
(Start: 119 @100454 has 185 MA's), (Start: 145 @100394 has 1 MA's), (Start: 182 @100325 has 1 MA's), (420, 99953), (443, 99911), (449, 99893), (506, 99809), (518, 99785), (530, 99761), (532, 99758), (555, 99713), (579, 99662), (595, 99632), (601, 99620), (661, 99491), (713, 99398), (717, 99392), (746, 99329), (748, 99323), (811, 99227), (814, 99221), (879, 99110), (921, 99038), (948, 99005), (951, 98996), (1004, 98876), (1010, 98858), (1047, 98759), (1048, 98756), (1058, 98735), (1083, 98681), (1107, 98645),

Gene: Avian_59 Start: 39556, Stop: 41472, Start Num: 50
Candidate Starts for Avian_59:
(Start: 50 @39556 has 13 MA's), (Start: 51 @39559 has 50 MA's), (Start: 58 @39571 has 39 MA's), (75, 39619), (87, 39652), (158, 39811), (173, 39838), (178, 39847), (Start: 222 @39919 has 29 MA's), (296, 40039), (335, 40102), (399, 40192), (418, 40219), (506, 40348), (518, 40372), (538, 40414), (543, 40426), (554, 40441), (562, 40462), (572, 40483), (581, 40504), (610, 40561), (618, 40579), (638, 40615), (662, 40657), (689, 40717), (745, 40813), (746, 40816), (881, 40993), (918, 41044), (969, 41134), (989, 41170), (992, 41176), (1010, 41230), (1022, 41269), (1066, 41371), (1072, 41386), (1083, 41407),

Gene: AxiPup_41 Start: 31088, Stop: 29700, Start Num: 360
Candidate Starts for AxiPup_41:
(Start: 49 @31739 has 8 MA's), (187, 31385), (220, 31310), (Start: 360 @31088 has 155 MA's), (445, 30944), (448, 30938), (449, 30935), (503, 30821), (518, 30794), (551, 30734), (562, 30707), (563, 30704), (611, 30608), (634, 30566), (721, 30395), (732, 30374), (743, 30347), (769, 30299), (836, 30239), (932, 30080), (966, 30026), (1000, 29942), (1002, 29936), (1007, 29924), (1045, 29828), (1068, 29774), (1070, 29771), (1081, 29747),

Gene: AyoTeo_35 Start: 23382, Stop: 24809, Start Num: 339
Candidate Starts for AyoTeo_35:
(314, 23340), (Start: 339 @23382 has 21 MA's), (524, 23700), (571, 23802), (599, 23847), (607, 23868), (749, 24135), (778, 24183), (791, 24204), (827, 24261), (842, 24294), (860, 24330), (914, 24408), (926, 24429), (973, 24510), (975, 24513), (1009, 24600), (1013, 24612), (1026, 24651), (1038, 24687), (1047, 24705), (1078, 24768),

Gene: BRock_117 Start: 63285, Stop: 64868, Start Num: 244
Candidate Starts for BRock_117:
(Start: 244 @63285 has 6 MA's), (Start: 250 @63294 has 29 MA's), (Start: 305 @63360 has 1 MA's), (307, 63366), (364, 63447), (372, 63456), (413, 63519), (417, 63522), (420, 63525), (Start: 430 @63540 has 1 MA's), (458, 63606), (492, 63669), (508, 63672), (513, 63681), (538, 63735), (552, 63759), (573, 63810), (609, 63891), (623, 63921), (631, 63936), (635, 63948), (656, 63987), (674, 64023), (686, 64044), (696, 64071), (713, 64086), (727, 64107), (744, 64149), (830, 64257), (851, 64305), (875, 64347), (881, 64356), (932, 64428), (953, 64461), (963, 64479), (1001, 64572), (1007, 64584), (1035, 64671), (1039, 64683), (1049, 64704), (1073, 64758), (1080, 64770), (1116, 64827),

Gene: Babyland_190 Start: 100488, Stop: 98626, Start Num: 119
Candidate Starts for Babyland_190:
(Start: 119 @100488 has 185 MA's), (Start: 145 @100428 has 1 MA's), (Start: 182 @100359 has 1 MA's), (420, 99987), (443, 99945), (449, 99927), (506, 99843), (518, 99819), (530, 99795), (532, 99792), (555, 99747), (579, 99696), (595, 99666), (601, 99654), (661, 99525), (713, 99432), (717, 99426), (746, 99363), (748, 99357), (811, 99261), (814, 99255), (879, 99144), (921, 99072), (948, 99039), (951, 99030), (1004, 98910), (1010, 98892), (1047, 98793), (1048, 98790), (1058, 98769),

(1083, 98715), (1107, 98679),

Gene: BackyardAgain_185 Start: 99189, Stop: 97327, Start Num: 119
Candidate Starts for BackyardAgain_185:
(Start: 119 @99189 has 185 MA's), (Start: 145 @99129 has 1 MA's), (Start: 182 @99060 has 1 MA's), (420, 98688), (443, 98646), (449, 98628), (506, 98544), (518, 98520), (530, 98496), (532, 98493), (555, 98448), (579, 98397), (595, 98367), (601, 98355), (661, 98226), (713, 98133), (717, 98127), (746, 98064), (748, 98058), (811, 97962), (814, 97956), (879, 97845), (921, 97773), (948, 97740), (951, 97731), (1004, 97611), (1010, 97593), (1047, 97494), (1048, 97491), (1058, 97470), (1083, 97416), (1107, 97380),

Gene: BadAgartude_182 Start: 100194, Stop: 98332, Start Num: 119
Candidate Starts for BadAgartude_182:
(Start: 119 @100194 has 185 MA's), (Start: 145 @100134 has 1 MA's), (Start: 182 @100065 has 1 MA's), (420, 99693), (443, 99651), (449, 99633), (506, 99549), (518, 99525), (530, 99501), (532, 99498), (555, 99453), (579, 99402), (595, 99372), (601, 99360), (661, 99231), (713, 99138), (717, 99132), (746, 99069), (748, 99063), (811, 98967), (814, 98961), (879, 98850), (921, 98778), (948, 98745), (951, 98736), (1004, 98616), (1010, 98598), (1047, 98499), (1048, 98496), (1058, 98475), (1083, 98421), (1107, 98385),

Gene: Baines_40 Start: 30809, Stop: 29421, Start Num: 360
Candidate Starts for Baines_40:
(220, 31031), (Start: 360 @30809 has 155 MA's), (445, 30665), (448, 30659), (449, 30656), (503, 30542), (518, 30515), (551, 30455), (562, 30428), (563, 30425), (611, 30329), (634, 30287), (721, 30116), (732, 30095), (738, 30080), (743, 30068), (769, 30020), (836, 29960), (887, 29864), (932, 29801), (966, 29747), (1000, 29663), (1002, 29657), (1007, 29645), (1033, 29570), (1045, 29549), (1068, 29495), (1070, 29492), (1081, 29468),

Gene: Balsa_40 Start: 31258, Stop: 29867, Start Num: 358
Candidate Starts for Balsa_40:
(Start: 279 @31372 has 1 MA's), (338, 31288), (Start: 358 @31258 has 23 MA's), (445, 31111), (448, 31105), (449, 31102), (503, 30988), (518, 30961), (551, 30901), (562, 30874), (563, 30871), (611, 30775), (634, 30733), (721, 30562), (732, 30541), (743, 30514), (836, 30406), (887, 30310), (966, 30193), (973, 30175), (1000, 30109), (1002, 30103), (1045, 29995), (1068, 29941), (1070, 29938), (1081, 29914), (1098, 29884),

Gene: BananaFence_185 Start: 100432, Stop: 98570, Start Num: 119
Candidate Starts for BananaFence_185:
(Start: 119 @100432 has 185 MA's), (Start: 145 @100372 has 1 MA's), (Start: 182 @100303 has 1 MA's), (420, 99931), (443, 99889), (449, 99871), (506, 99787), (518, 99763), (530, 99739), (532, 99736), (555, 99691), (579, 99640), (595, 99610), (601, 99598), (661, 99469), (713, 99376), (717, 99370), (746, 99307), (748, 99301), (811, 99205), (814, 99199), (879, 99088), (921, 99016), (948, 98983), (951, 98974), (1004, 98854), (1010, 98836), (1047, 98737), (1048, 98734), (1058, 98713), (1083, 98659), (1107, 98623),

Gene: Bandik_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Bandik_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (684, 30481), (721, 30421), (738, 30385), (743, 30373), (763, 30340), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Bangla1971_188 Start: 100101, Stop: 98239, Start Num: 119
Candidate Starts for Bangla1971_188:
(Start: 119 @100101 has 185 MA's), (Start: 145 @100041 has 1 MA's), (Start: 182 @99972 has 1 MA's), (420, 99600), (443, 99558), (449, 99540), (506, 99456), (518, 99432), (530, 99408), (532, 99405), (555, 99360), (579, 99309), (595, 99279), (601, 99267), (661, 99138), (713, 99045), (717, 99039), (746, 98976), (748, 98970), (811, 98874), (814, 98868), (879, 98757), (921, 98685), (948, 98652), (951, 98643), (1004, 98523), (1010, 98505), (1047, 98406), (1048, 98403), (1058, 98382), (1083, 98328), (1107, 98292),

Gene: Barbochs_57 Start: 51736, Stop: 50204, Start Num: 222
Candidate Starts for Barbochs_57:
(102, 51991), (121, 51940), (142, 51889), (165, 51835), (181, 51805), (Start: 194 @51772 has 3 MA's), (201, 51763), (Start: 222 @51736 has 29 MA's), (321, 51568), (348, 51526), (380, 51478), (Start: 388 @51466 has 1 MA's), (396, 51454), (401, 51448), (412, 51427), (435, 51400), (520, 51259), (565, 51172), (572, 51157), (578, 51145), (591, 51115), (617, 51064), (639, 51037), (668, 50986), (679, 50962), (688, 50944), (695, 50926), (697, 50923), (732, 50896), (750, 50854), (780, 50809), (873, 50674), (883, 50659), (894, 50638), (957, 50581), (972, 50557), (999, 50497), (1000, 50491), (1002, 50485), (1004, 50479), (1020, 50428), (1030, 50404), (1047, 50365), (1052, 50353), (1054, 50350), (1097, 50257), (1107, 50242), (1119, 50221),

Gene: BarnCat_85 Start: 49027, Stop: 47570, Start Num: 225
Candidate Starts for BarnCat_85:
(Start: 225 @49027 has 5 MA's), (241, 48997), (325, 48883), (382, 48811), (390, 48799), (422, 48751), (441, 48709), (455, 48673), (465, 48649), (510, 48577), (514, 48571), (519, 48559), (533, 48532), (541, 48511), (580, 48436), (591, 48418), (637, 48322), (640, 48313), (691, 48208), (717, 48178), (719, 48175), (725, 48169), (732, 48157), (733, 48154), (763, 48094), (767, 48085), (842, 47995), (897, 47941), (920, 47905), (979, 47824), (980, 47821), (986, 47818), (991, 47809), (1018, 47731), (1020, 47725), (1053, 47647), (1063, 47626), (1075, 47599), (1077, 47596),

Gene: Barnyard_65 Start: 45144, Stop: 47105, Start Num: 42
Candidate Starts for Barnyard_65:
(Start: 42 @45144 has 2 MA's), (Start: 51 @45171 has 50 MA's), (54, 45177), (Start: 59 @45183 has 5 MA's), (81, 45249), (99, 45282), (102, 45297), (106, 45312), (108, 45318), (120, 45345), (Start: 144 @45387 has 3 MA's), (170, 45447), (Start: 182 @45468 has 1 MA's), (197, 45504), (202, 45513), (Start: 243 @45576 has 5 MA's), (255, 45597), (263, 45615), (274, 45630), (278, 45636), (296, 45660), (344, 45735), (348, 45741), (462, 45924), (466, 45936), (474, 45954), (506, 45969), (543, 46047), (618, 46200), (636, 46233), (698, 46368), (720, 46395), (727, 46401), (729, 46407), (751, 46461), (784, 46527), (786, 46530), (832, 46572), (907, 46656), (926, 46689), (985, 46800), (989, 46803), (990, 46806), (993, 46812), (1004, 46845), (1011, 46866), (1012, 46869), (1025, 46908), (1050, 46962), (1065, 46998), (1068, 47007), (1096, 47064), (1108, 47082),

Gene: BaronJohn_40 Start: 29682, Stop: 28255, Start Num: 360
Candidate Starts for BaronJohn_40:
(329, 29724), (Start: 360 @29682 has 155 MA's), (380, 29652), (384, 29646), (448, 29532), (449, 29529), (450, 29526), (562, 29292), (563, 29289), (686, 29034), (717, 28983), (721, 28977), (743, 28929), (763, 28896), (836, 28782), (840, 28773), (862, 28728), (865, 28722), (882, 28695), (887, 28686), (932, 28623), (973, 28551), (989, 28515), (993, 28506), (999, 28491), (1000, 28485), (1007, 28467), (1019, 28425), (1048, 28362), (1081, 28290),

Gene: Basquiat_186 Start: 100015, Stop: 98153, Start Num: 119
Candidate Starts for Basquiat_186:
(Start: 119 @100015 has 185 MA's), (Start: 145 @99955 has 1 MA's), (Start: 182 @99886 has 1 MA's), (420, 99514), (443, 99472), (449, 99454), (506, 99370), (518, 99346), (530, 99322), (532,

99319), (555, 99274), (579, 99223), (595, 99193), (601, 99181), (661, 99052), (713, 98959), (717, 98953), (746, 98890), (748, 98884), (811, 98788), (814, 98782), (879, 98671), (921, 98599), (948, 98566), (951, 98557), (1004, 98437), (1010, 98419), (1047, 98320), (1048, 98317), (1058, 98296), (1083, 98242), (1107, 98206),

Gene: BeanWater_179 Start: 99755, Stop: 97893, Start Num: 119
Candidate Starts for BeanWater_179:
(Start: 119 @99755 has 185 MA's), (Start: 145 @99695 has 1 MA's), (Start: 182 @99626 has 1 MA's), (420, 99254), (443, 99212), (449, 99194), (506, 99110), (530, 99062), (532, 99059), (555, 99014), (579, 98963), (595, 98933), (601, 98921), (661, 98792), (713, 98699), (717, 98693), (746, 98630), (748, 98624), (811, 98528), (814, 98522), (879, 98411), (921, 98339), (948, 98306), (951, 98297), (1004, 98177), (1010, 98159), (1047, 98060), (1048, 98057), (1058, 98036), (1083, 97982), (1107, 97946),

Gene: BeautPeep30_41 Start: 31120, Stop: 29732, Start Num: 360
Candidate Starts for BeautPeep30_41:
(220, 31342), (Start: 360 @31120 has 155 MA's), (445, 30976), (448, 30970), (449, 30967), (503, 30853), (518, 30826), (551, 30766), (562, 30739), (563, 30736), (611, 30640), (634, 30598), (715, 30436), (721, 30427), (732, 30406), (738, 30391), (743, 30379), (769, 30331), (836, 30271), (887, 30175), (932, 30112), (966, 30058), (1000, 29974), (1002, 29968), (1007, 29956), (1045, 29860), (1068, 29806), (1070, 29803), (1081, 29779),

Gene: Beaver_62 Start: 53506, Stop: 51974, Start Num: 222
Candidate Starts for Beaver_62:
(102, 53761), (121, 53710), (142, 53659), (165, 53605), (181, 53575), (Start: 194 @53542 has 3 MA's), (201, 53533), (Start: 222 @53506 has 29 MA's), (321, 53338), (348, 53296), (380, 53248), (Start: 388 @53236 has 1 MA's), (396, 53224), (401, 53218), (412, 53197), (435, 53170), (520, 53029), (565, 52942), (572, 52927), (578, 52915), (591, 52885), (617, 52834), (639, 52807), (668, 52756), (688, 52714), (695, 52696), (697, 52693), (732, 52666), (750, 52624), (780, 52579), (791, 52561), (873, 52444), (883, 52429), (894, 52408), (957, 52351), (972, 52327), (999, 52267), (1000, 52261), (1002, 52255), (1004, 52249), (1020, 52198), (1030, 52174), (1047, 52135), (1052, 52123), (1097, 52027), (1107, 52012), (1119, 51991),

Gene: Beckerton_60 Start: 46572, Stop: 48629, Start Num: 45
Candidate Starts for Beckerton_60:
(Start: 45 @46572 has 11 MA's), (72, 46632), (73, 46635), (106, 46728), (111, 46740), (120, 46761), (Start: 182 @46884 has 1 MA's), (183, 46887), (187, 46896), (202, 46929), (206, 46950), (229, 46998), (255, 47040), (296, 47103), (309, 47124), (314, 47130), (348, 47184), (462, 47370), (466, 47382), (474, 47400), (506, 47415), (509, 47421), (668, 47739), (669, 47742), (689, 47787), (727, 47838), (731, 47850), (778, 47940), (784, 47952), (802, 47985), (819, 48009), (826, 48018), (907, 48108), (926, 48141), (985, 48252), (989, 48255), (990, 48258), (992, 48261), (1004, 48297), (1010, 48315), (1031, 48381), (1041, 48399), (1126, 48576),

Gene: BeeBee8_41 Start: 31426, Stop: 30035, Start Num: 358
Candidate Starts for BeeBee8_41:
(275, 31528), (277, 31525), (Start: 279 @31522 has 1 MA's), (Start: 358 @31426 has 23 MA's), (445, 31279), (448, 31273), (449, 31270), (503, 31156), (518, 31129), (551, 31069), (562, 31042), (563, 31039), (611, 30943), (634, 30901), (721, 30730), (732, 30709), (743, 30682), (769, 30634), (836, 30574), (887, 30478), (966, 30361), (973, 30343), (1000, 30277), (1002, 30271), (1045, 30163), (1068, 30109), (1070, 30106), (1081, 30082), (1098, 30052),

Gene: Beethoven_29 Start: 22100, Stop: 23500, Start Num: 333
Candidate Starts for Beethoven_29:

(Start: 333 @22100 has 73 MA's), (381, 22163), (448, 22268), (449, 22271), (484, 22355), (512, 22388), (540, 22439), (544, 22445), (582, 22526), (584, 22529), (588, 22535), (607, 22571), (616, 22589), (617, 22592), (634, 22625), (640, 22646), (646, 22664), (677, 22697), (730, 22778), (740, 22805), (758, 22835), (763, 22844), (778, 22871), (798, 22904), (804, 22919), (840, 22973), (849, 22994), (857, 23006), (863, 23018), (990, 23240), (994, 23249), (997, 23255), (1009, 23291), (1030, 23351), (1038, 23378), (1084, 23468),

Gene: Beleetus_123 Start: 66657, Stop: 68228, Start Num: 244
Candidate Starts for Beleetus_123:
(Start: 244 @66657 has 6 MA's), (307, 66738), (313, 66744), (323, 66762), (Start: 357 @66807 has 5 MA's), (367, 66822), (372, 66828), (413, 66891), (Start: 430 @66909 has 1 MA's), (458, 66975), (508, 67041), (513, 67050), (552, 67128), (573, 67179), (620, 67281), (630, 67302), (631, 67305), (656, 67356), (661, 67365), (668, 67380), (674, 67392), (696, 67440), (713, 67455), (881, 67725), (888, 67737), (903, 67761), (907, 67767), (935, 67800), (963, 67848), (1007, 67953), (1056, 68085), (1081, 68142), (1086, 68154), (1091, 68160), (1121, 68208),

Gene: Belieber_182 Start: 99329, Stop: 97467, Start Num: 119
Candidate Starts for Belieber_182:
(Start: 119 @99329 has 185 MA's), (Start: 145 @99269 has 1 MA's), (Start: 182 @99200 has 1 MA's), (420, 98828), (443, 98786), (449, 98768), (506, 98684), (518, 98660), (530, 98636), (532, 98633), (555, 98588), (579, 98537), (595, 98507), (601, 98495), (661, 98366), (713, 98273), (717, 98267), (746, 98204), (748, 98198), (811, 98102), (814, 98096), (879, 97985), (921, 97913), (948, 97880), (951, 97871), (1004, 97751), (1010, 97733), (1047, 97634), (1048, 97631), (1058, 97610), (1083, 97556), (1107, 97520),

Gene: Benczkowski14_57 Start: 53319, Stop: 51616, Start Num: 126
Candidate Starts for Benczkowski14_57:
(Start: 126 @53319 has 9 MA's), (Start: 131 @53307 has 2 MA's), (227, 53124), (Start: 294 @53034 has 29 MA's), (301, 53025), (321, 52989), (336, 52965), (343, 52956), (348, 52947), (380, 52899), (396, 52875), (444, 52803), (447, 52800), (454, 52782), (469, 52743), (555, 52614), (572, 52575), (574, 52572), (581, 52554), (586, 52545), (591, 52533), (616, 52485), (640, 52452), (668, 52404), (679, 52380), (732, 52314), (780, 52215), (849, 52116), (854, 52107), (871, 52083), (873, 52080), (957, 51987), (972, 51963), (974, 51960), (999, 51903), (1004, 51885), (1047, 51768), (1048, 51765), (1054, 51753), (1107, 51654), (1119, 51633),

Gene: Benjalauren_41 Start: 30819, Stop: 29431, Start Num: 360
Candidate Starts for Benjalauren_41:
(Start: 49 @31470 has 8 MA's), (187, 31116), (220, 31041), (Start: 360 @30819 has 155 MA's), (445, 30675), (448, 30669), (449, 30666), (503, 30552), (518, 30525), (551, 30465), (562, 30438), (563, 30435), (611, 30339), (634, 30297), (721, 30126), (732, 30105), (738, 30090), (769, 30030), (836, 29970), (887, 29874), (932, 29811), (966, 29757), (1000, 29673), (1002, 29667), (1007, 29655), (1045, 29559), (1068, 29505), (1070, 29502), (1081, 29478),

Gene: Bennie_25 Start: 20566, Stop: 21960, Start Num: 333
Candidate Starts for Bennie_25:
(Start: 333 @20566 has 73 MA's), (381, 20623), (448, 20728), (449, 20731), (484, 20815), (512, 20848), (540, 20899), (544, 20905), (588, 20995), (607, 21031), (616, 21049), (617, 21052), (634, 21085), (640, 21106), (730, 21238), (740, 21265), (758, 21295), (763, 21304), (778, 21331), (798, 21364), (804, 21379), (827, 21406), (840, 21433), (858, 21469), (888, 21511), (926, 21574), (939, 21592), (975, 21664), (983, 21688), (988, 21694), (989, 21697), (997, 21715), (998, 21718), (1007, 21742), (1009, 21751), (1038, 21838), (1065, 21889), (1084, 21928),

Gene: BenoitCattle_59 Start: 52020, Stop: 50611, Start Num: 294

Candidate Starts for BenoitCattle_59:
(102, 52398), (121, 52347), (142, 52296), (165, 52242), (181, 52212), (Start: 194 @52179 has 3 MA's), (201, 52170), (Start: 222 @52143 has 29 MA's), (Start: 294 @52020 has 29 MA's), (321, 51975), (348, 51933), (380, 51885), (382, 51882), (386, 51876), (Start: 388 @51873 has 1 MA's), (396, 51861), (401, 51855), (435, 51807), (436, 51804), (510, 51684), (520, 51666), (555, 51603), (565, 51579), (572, 51564), (591, 51522), (617, 51471), (668, 51393), (695, 51333), (697, 51330), (726, 51321), (732, 51303), (750, 51261), (780, 51216), (873, 51081), (883, 51066), (894, 51045), (972, 50964), (974, 50961), (999, 50904), (1000, 50898), (1004, 50886), (1020, 50835), (1030, 50811), (1047, 50772), (1052, 50760), (1097, 50664), (1107, 50649),

Gene: Benry_32 Start: 21495, Stop: 22922, Start Num: 339
Candidate Starts for Benry_32:
(Start: 339 @21495 has 21 MA's), (540, 21849), (542, 21852), (555, 21873), (599, 21960), (617, 22002), (769, 22284), (778, 22296), (791, 22317), (804, 22344), (824, 22371), (827, 22374), (840, 22401), (842, 22407), (860, 22443), (926, 22542), (963, 22605), (973, 22623), (975, 22626), (998, 22680), (1009, 22713), (1013, 22725), (1026, 22764), (1038, 22800), (1042, 22806), (1047, 22818), (1065, 22851), (1078, 22881),

Gene: Berries_57 Start: 52859, Stop: 51447, Start Num: 294
Candidate Starts for Berries_57:
(102, 53207), (154, 53078), (Start: 194 @52988 has 3 MA's), (Start: 294 @52859 has 29 MA's), (321, 52814), (380, 52724), (382, 52721), (386, 52715), (401, 52694), (444, 52631), (510, 52523), (520, 52505), (565, 52418), (572, 52403), (591, 52361), (640, 52280), (668, 52232), (688, 52190), (695, 52172), (697, 52169), (732, 52142), (755, 52091), (780, 52055), (810, 52004), (873, 51920), (886, 51899), (999, 51743), (1000, 51737), (1004, 51725), (1052, 51599), (1107, 51485),

Gene: Beyoncage_50 Start: 36615, Stop: 38669, Start Num: 53
Candidate Starts for Beyoncage_50:
(Start: 53 @36615 has 9 MA's), (67, 36639), (90, 36702), (123, 36786), (Start: 144 @36828 has 3 MA's), (268, 37050), (296, 37086), (345, 37161), (373, 37200), (411, 37242), (423, 37260), (433, 37281), (439, 37293), (466, 37353), (473, 37368), (506, 37386), (543, 37464), (554, 37479), (555, 37482), (572, 37521), (581, 37542), (637, 37644), (668, 37701), (677, 37722), (679, 37725), (686, 37737), (702, 37785), (703, 37791), (708, 37839), (716, 37872), (723, 37896), (728, 37914), (739, 37944), (801, 38067), (819, 38100), (829, 38112), (842, 38127), (871, 38166), (903, 38211), (918, 38238), (967, 38322), (997, 38385), (1010, 38427), (1013, 38436), (1015, 38445), (1031, 38493), (1036, 38502), (1041, 38514), (1050, 38529), (1067, 38571),

Gene: Bezza_180 Start: 100270, Stop: 98408, Start Num: 119
Candidate Starts for Bezza_180:
(Start: 119 @100270 has 185 MA's), (Start: 145 @100210 has 1 MA's), (Start: 182 @100141 has 1 MA's), (420, 99769), (443, 99727), (449, 99709), (506, 99625), (518, 99601), (530, 99577), (532, 99574), (555, 99529), (579, 99478), (595, 99448), (601, 99436), (661, 99307), (713, 99214), (717, 99208), (746, 99145), (748, 99139), (811, 99043), (814, 99037), (879, 98926), (921, 98854), (948, 98821), (951, 98812), (1004, 98692), (1010, 98674), (1047, 98575), (1048, 98572), (1058, 98551), (1083, 98497), (1107, 98461),

Gene: BiPauneto_74 Start: 54628, Stop: 52772, Start Num: 112
Candidate Starts for BiPauneto_74:
(9, 55045), (11, 55027), (18, 54952), (Start: 35 @54853 has 37 MA's), (Start: 112 @54628 has 3 MA's), (271, 54334), (296, 54301), (309, 54280), (343, 54226), (345, 54220), (348, 54217), (409, 54127), (411, 54124), (450, 54064), (547, 53908), (618, 53761), (668, 53653), (679, 53629), (731, 53527), (755, 53473), (767, 53458), (814, 53377), (842, 53338), (886, 53275), (903, 53236), (907, 53230), (925, 53200), (989, 53083), (1011, 53020), (1031, 52957), (1041, 52939), (1080, 52855),

Gene: Bianmat_57 Start: 52899, Stop: 51487, Start Num: 294
Candidate Starts for Bianmat_57:
(102, 53247), (154, 53118), (Start: 194 @53028 has 3 MA's), (Start: 294 @52899 has 29 MA's), (321, 52854), (380, 52764), (382, 52761), (386, 52755), (401, 52734), (444, 52671), (477, 52593), (510, 52563), (520, 52545), (565, 52458), (572, 52443), (591, 52401), (640, 52320), (668, 52272), (688, 52230), (695, 52212), (697, 52209), (732, 52182), (755, 52131), (780, 52095), (810, 52044), (873, 51960), (886, 51939), (999, 51783), (1000, 51777), (1004, 51765), (1052, 51639), (1107, 51525),

Gene: Big4_103 Start: 78367, Stop: 76427, Start Num: 64
Candidate Starts for Big4_103:
(Start: 64 @78367 has 19 MA's), (120, 78214), (164, 78121), (224, 78046), (271, 77965), (286, 77941), (445, 77665), (587, 77359), (637, 77269), (668, 77209), (671, 77200), (729, 77143), (731, 77137), (745, 77104), (750, 77092), (755, 77083), (770, 77059), (807, 76999), (909, 76867), (913, 76861), (949, 76798), (961, 76777), (965, 76771), (1000, 76696), (1002, 76690), (1009, 76669), (1030, 76609), (1048, 76567), (1058, 76543), (1061, 76531),

Gene: BigCity_196 Start: 103320, Stop: 101458, Start Num: 119
Candidate Starts for BigCity_196:
(Start: 119 @103320 has 185 MA's), (Start: 145 @103260 has 1 MA's), (Start: 182 @103191 has 1 MA's), (420, 102819), (443, 102777), (449, 102759), (506, 102675), (518, 102651), (530, 102627), (532, 102624), (555, 102579), (579, 102528), (595, 102498), (601, 102486), (661, 102357), (713, 102264), (717, 102258), (746, 102195), (748, 102189), (811, 102093), (814, 102087), (879, 101976), (888, 101961), (921, 101904), (948, 101871), (951, 101862), (1004, 101742), (1010, 101724), (1047, 101625), (1048, 101622), (1058, 101601), (1083, 101547), (1107, 101511),

Gene: BigMack_25 Start: 20560, Stop: 21960, Start Num: 333
Candidate Starts for BigMack_25:
(Start: 333 @20560 has 73 MA's), (381, 20623), (448, 20728), (449, 20731), (484, 20815), (512, 20848), (540, 20899), (544, 20905), (582, 20986), (584, 20989), (588, 20995), (607, 21031), (616, 21049), (617, 21052), (634, 21085), (640, 21106), (646, 21124), (730, 21238), (740, 21265), (758, 21295), (763, 21304), (778, 21331), (798, 21364), (804, 21379), (827, 21406), (842, 21439), (888, 21511), (926, 21574), (939, 21592), (957, 21625), (988, 21694), (990, 21700), (997, 21715), (998, 21718), (1009, 21751), (1030, 21811), (1038, 21838), (1084, 21928),

Gene: BigMama_51 Start: 39745, Stop: 41688, Start Num: 51
Candidate Starts for BigMama_51:
(Start: 51 @39745 has 50 MA's), (66, 39772), (88, 39844), (107, 39898), (140, 39958), (147, 39976), (150, 39985), (177, 40036), (195, 40078), (Start: 222 @40114 has 29 MA's), (271, 40201), (331, 40294), (341, 40309), (354, 40330), (433, 40432), (447, 40465), (458, 40489), (509, 40549), (554, 40636), (587, 40711), (639, 40801), (668, 40852), (669, 40855), (720, 40945), (731, 40963), (745, 40996), (778, 41050), (784, 41062), (796, 41080), (842, 41143), (903, 41227), (969, 41344), (989, 41392), (1011, 41455), (1041, 41539),

Gene: BigRedClifford_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for BigRedClifford_41:
(Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (449, 30965), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (611, 30638), (634, 30596), (721, 30425), (732, 30404), (743, 30377), (769, 30329), (836, 30269), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: BigShaq_59 Start: 52148, Stop: 50616, Start Num: 222
Candidate Starts for BigShaq_59:

(102, 52403), (121, 52352), (142, 52301), (165, 52247), (181, 52217), (Start: 194 @52184 has 3 MA's), (201, 52175), (Start: 222 @52148 has 29 MA's), (Start: 294 @52025 has 29 MA's), (321, 51980), (348, 51938), (380, 51890), (382, 51887), (386, 51881), (Start: 388 @51878 has 1 MA's), (396, 51866), (401, 51860), (Start: 430 @51824 has 1 MA's), (435, 51812), (436, 51809), (510, 51689), (520, 51671), (565, 51584), (572, 51569), (591, 51527), (617, 51476), (639, 51449), (668, 51398), (695, 51338), (697, 51335), (726, 51326), (732, 51308), (750, 51266), (780, 51221), (873, 51086), (883, 51071), (894, 51050), (972, 50969), (974, 50966), (999, 50909), (1000, 50903), (1004, 50891), (1020, 50840), (1026, 50825), (1030, 50816), (1047, 50777), (1052, 50765), (1097, 50669), (1107, 50654),

Gene: Bigswole_191 Start: 102752, Stop: 100890, Start Num: 119
Candidate Starts for Bigswole_191:
(Start: 119 @102752 has 185 MA's), (Start: 145 @102692 has 1 MA's), (Start: 182 @102623 has 1 MA's), (420, 102251), (443, 102209), (449, 102191), (506, 102107), (518, 102083), (530, 102059), (532, 102056), (555, 102011), (579, 101960), (595, 101930), (601, 101918), (661, 101789), (713, 101696), (717, 101690), (746, 101627), (748, 101621), (811, 101525), (814, 101519), (879, 101408), (921, 101336), (948, 101303), (951, 101294), (1004, 101174), (1010, 101156), (1047, 101057), (1048, 101054), (1058, 101033), (1083, 100979), (1107, 100943),

Gene: BillyBobJr_65 Start: 53852, Stop: 52284, Start Num: 194
Candidate Starts for BillyBobJr_65:
(102, 54071), (121, 54020), (154, 53942), (165, 53915), (181, 53885), (Start: 194 @53852 has 3 MA's), (201, 53843), (Start: 222 @53816 has 29 MA's), (321, 53648), (348, 53606), (Start: 360 @53588 has 155 MA's), (380, 53558), (Start: 388 @53546 has 1 MA's), (401, 53528), (435, 53480), (520, 53339), (565, 53252), (572, 53237), (578, 53225), (591, 53195), (617, 53144), (668, 53066), (679, 53042), (688, 53024), (695, 53006), (697, 53003), (726, 52994), (732, 52976), (780, 52889), (873, 52754), (883, 52739), (894, 52718), (957, 52661), (972, 52637), (974, 52634), (999, 52577), (1000, 52571), (1004, 52559), (1020, 52508), (1030, 52484), (1047, 52445), (1052, 52433), (1054, 52430), (1097, 52337), (1107, 52322), (1119, 52301),

Gene: Bipolarisk_186 Start: 100722, Stop: 98860, Start Num: 119
Candidate Starts for Bipolarisk_186:
(Start: 119 @100722 has 185 MA's), (Start: 145 @100662 has 1 MA's), (Start: 182 @100593 has 1 MA's), (420, 100221), (443, 100179), (449, 100161), (506, 100077), (518, 100053), (530, 100029), (532, 100026), (555, 99981), (579, 99930), (595, 99900), (601, 99888), (661, 99759), (713, 99666), (717, 99660), (746, 99597), (748, 99591), (811, 99495), (814, 99489), (879, 99378), (921, 99306), (948, 99273), (951, 99264), (1004, 99144), (1010, 99126), (1047, 99027), (1048, 99024), (1058, 99003), (1083, 98949), (1107, 98913),

Gene: BirksAndSocks_64 Start: 53856, Stop: 52324, Start Num: 222
Candidate Starts for BirksAndSocks_64:
(102, 54111), (121, 54060), (165, 53955), (181, 53925), (Start: 194 @53892 has 3 MA's), (201, 53883), (Start: 222 @53856 has 29 MA's), (321, 53688), (348, 53646), (Start: 360 @53628 has 155 MA's), (380, 53598), (Start: 388 @53586 has 1 MA's), (396, 53574), (401, 53568), (412, 53547), (520, 53379), (565, 53292), (572, 53277), (578, 53265), (591, 53235), (668, 53106), (679, 53082), (688, 53064), (695, 53046), (697, 53043), (726, 53034), (732, 53016), (780, 52929), (873, 52794), (883, 52779), (894, 52758), (972, 52677), (974, 52674), (999, 52617), (1000, 52611), (1004, 52599), (1020, 52548), (1030, 52524), (1047, 52485), (1052, 52473), (1054, 52470), (1097, 52377), (1107, 52362),

Gene: BirthdayBoy_62 Start: 41143, Stop: 43056, Start Num: 51
Candidate Starts for BirthdayBoy_62:
(20, 41017), (21, 41026), (24, 41038), (28, 41071), (Start: 50 @41140 has 13 MA's), (Start: 51 @41143 has 50 MA's), (Start: 58 @41155 has 39 MA's), (75, 41203), (87, 41236), (115, 41305), (158, 41395), (173, 41422), (178, 41431), (Start: 222 @41503 has 29 MA's), (296, 41623), (335, 41686), (399,

41776), (418, 41803), (506, 41932), (518, 41956), (538, 41998), (562, 42046), (572, 42067), (581, 42088), (610, 42145), (638, 42199), (662, 42241), (689, 42301), (745, 42397), (746, 42400), (881, 42577), (918, 42628), (969, 42718), (989, 42754), (992, 42760), (1010, 42814), (1022, 42853), (1066, 42955), (1072, 42970), (1083, 42991),

Gene: BiteSize_50 Start: 36701, Stop: 38755, Start Num: 53
Candidate Starts for BiteSize_50:
(Start: 53 @36701 has 9 MA's), (67, 36725), (90, 36788), (123, 36872), (Start: 144 @36914 has 3 MA's), (268, 37136), (296, 37172), (345, 37247), (373, 37286), (411, 37328), (423, 37346), (433, 37367), (439, 37379), (466, 37439), (473, 37454), (506, 37472), (543, 37550), (554, 37565), (555, 37568), (572, 37607), (581, 37628), (637, 37730), (668, 37787), (677, 37808), (679, 37811), (686, 37823), (702, 37871), (703, 37877), (708, 37925), (716, 37958), (723, 37982), (728, 38000), (739, 38030), (801, 38153), (819, 38186), (829, 38198), (842, 38213), (871, 38252), (903, 38297), (918, 38324), (967, 38408), (997, 38471), (1010, 38513), (1013, 38522), (1015, 38531), (1031, 38579), (1036, 38588), (1041, 38600), (1050, 38615), (1067, 38657),

Gene: Blackbrain_185 Start: 100557, Stop: 98755, Start Num: 145
Candidate Starts for Blackbrain_185:
(Start: 119 @100617 has 185 MA's), (Start: 145 @100557 has 1 MA's), (Start: 182 @100488 has 1 MA's), (420, 100116), (443, 100074), (449, 100056), (506, 99972), (518, 99948), (530, 99924), (532, 99921), (555, 99876), (579, 99825), (595, 99795), (601, 99783), (661, 99654), (713, 99561), (717, 99555), (746, 99492), (748, 99486), (811, 99390), (814, 99384), (879, 99273), (921, 99201), (948, 99168), (951, 99159), (1004, 99039), (1010, 99021), (1047, 98922), (1048, 98919), (1058, 98898), (1083, 98844), (1107, 98808),

Gene: Blackdragon_182 Start: 100053, Stop: 98191, Start Num: 119
Candidate Starts for Blackdragon_182:
(Start: 119 @100053 has 185 MA's), (Start: 145 @99993 has 1 MA's), (Start: 182 @99924 has 1 MA's), (420, 99552), (443, 99510), (449, 99492), (506, 99408), (518, 99384), (530, 99360), (532, 99357), (555, 99312), (579, 99261), (595, 99231), (601, 99219), (661, 99090), (713, 98997), (717, 98991), (746, 98928), (748, 98922), (811, 98826), (814, 98820), (879, 98709), (921, 98637), (948, 98604), (951, 98595), (1004, 98475), (1010, 98457), (1047, 98358), (1048, 98355), (1058, 98334), (1083, 98280), (1107, 98244),

Gene: Blage_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for Blage_41:
(Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (449, 30965), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (611, 30638), (634, 30596), (721, 30425), (732, 30404), (743, 30377), (769, 30329), (836, 30269), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: Bloom_105 Start: 80738, Stop: 82576, Start Num: 60
Candidate Starts for Bloom_105:
(Start: 60 @80738 has 17 MA's), (88, 80819), (123, 80897), (167, 80993), (224, 81053), (Start: 243 @81083 has 5 MA's), (314, 81203), (344, 81254), (446, 81314), (605, 81653), (638, 81710), (647, 81731), (671, 81776), (729, 81833), (731, 81839), (745, 81872), (750, 81884), (757, 81896), (784, 81941), (807, 81980), (852, 82037), (869, 82043), (888, 82076), (925, 82145), (970, 82229), (1018, 82346), (1093, 82520), (1118, 82562),

Gene: BlueNGold_166 Start: 96830, Stop: 94920, Start Num: 59
Candidate Starts for BlueNGold_166:
(Start: 59 @96830 has 5 MA's), (Start: 144 @96626 has 3 MA's), (164, 96578), (192, 96533), (229, 96452), (239, 96440), (298, 96335), (314, 96308), (444, 96203), (453, 96179), (530, 96014), (668,

95747), (671, 95738), (686, 95711), (745, 95642), (888, 95393), (918, 95327), (933, 95303), (1002, 95168), (1021, 95108), (1052, 95036),

Gene: BobaPhatt_181 Start: 99214, Stop: 97352, Start Num: 119
Candidate Starts for BobaPhatt_181:
(Start: 119 @99214 has 185 MA's), (Start: 145 @99154 has 1 MA's), (Start: 182 @99085 has 1 MA's), (420, 98713), (443, 98671), (449, 98653), (506, 98569), (518, 98545), (530, 98521), (532, 98518), (555, 98473), (579, 98422), (595, 98392), (601, 98380), (661, 98251), (713, 98158), (717, 98152), (746, 98089), (748, 98083), (811, 97987), (814, 97981), (879, 97870), (921, 97798), (948, 97765), (951, 97756), (1004, 97636), (1010, 97618), (1047, 97519), (1048, 97516), (1058, 97495), (1083, 97441), (1107, 97405),

Gene: BobtimousPrime_63 Start: 46536, Stop: 48593, Start Num: 45
Candidate Starts for BobtimousPrime_63:
(Start: 45 @46536 has 11 MA's), (72, 46596), (73, 46599), (106, 46692), (111, 46704), (120, 46725), (Start: 182 @46848 has 1 MA's), (183, 46851), (187, 46860), (202, 46893), (206, 46914), (229, 46962), (255, 47004), (296, 47067), (309, 47088), (314, 47094), (348, 47148), (462, 47334), (466, 47346), (474, 47364), (506, 47379), (509, 47385), (668, 47703), (669, 47706), (689, 47751), (727, 47802), (731, 47814), (778, 47904), (784, 47916), (802, 47949), (819, 47973), (826, 47982), (907, 48072), (926, 48105), (985, 48216), (989, 48219), (990, 48222), (992, 48225), (1004, 48261), (1010, 48279), (1031, 48345), (1041, 48363), (1126, 48540),

Gene: Bodacious_25 Start: 20580, Stop: 21974, Start Num: 333
Candidate Starts for Bodacious_25:
(Start: 333 @20580 has 73 MA's), (381, 20637), (448, 20742), (449, 20745), (484, 20829), (512, 20862), (540, 20913), (544, 20919), (582, 21000), (584, 21003), (588, 21009), (607, 21045), (616, 21063), (617, 21066), (634, 21099), (640, 21120), (730, 21252), (740, 21279), (763, 21318), (773, 21339), (778, 21345), (798, 21378), (804, 21393), (814, 21402), (840, 21447), (858, 21483), (888, 21525), (926, 21588), (939, 21606), (988, 21708), (989, 21711), (997, 21729), (998, 21732), (1007, 21756), (1009, 21765), (1038, 21852), (1084, 21942), (1094, 21966),

Gene: Boersma_73 Start: 47416, Stop: 46022, Start Num: 252
Candidate Starts for Boersma_73:
(Start: 252 @47416 has 13 MA's), (311, 47347), (363, 47272), (381, 47254), (403, 47224), (447, 47143), (602, 46849), (622, 46810), (677, 46696), (743, 46624), (760, 46594), (767, 46579), (773, 46567), (824, 46516), (875, 46465), (892, 46447), (897, 46438), (927, 46390), (1005, 46240), (1084, 46051),

Gene: Bogota_43 Start: 31399, Stop: 32793, Start Num: 346
Candidate Starts for Bogota_43:
(Start: 346 @31399 has 14 MA's), (Start: 349 @31402 has 3 MA's), (400, 31477), (416, 31501), (443, 31531), (448, 31546), (493, 31636), (525, 31672), (571, 31771), (575, 31780), (613, 31849), (678, 31972), (749, 32107), (766, 32134), (778, 32155), (791, 32176), (827, 32233), (842, 32266), (847, 32275), (870, 32317), (910, 32383), (926, 32407), (939, 32425), (948, 32443), (975, 32497), (988, 32527), (1009, 32584), (1010, 32587), (1026, 32635), (1041, 32674), (1047, 32689), (1082, 32758), (1090, 32776), (1094, 32785),

Gene: Boneham_63 Start: 53757, Stop: 52225, Start Num: 222
Candidate Starts for Boneham_63:
(102, 54012), (121, 53961), (165, 53856), (181, 53826), (Start: 194 @53793 has 3 MA's), (201, 53784), (Start: 222 @53757 has 29 MA's), (321, 53589), (348, 53547), (Start: 360 @53529 has 155 MA's), (380, 53499), (Start: 388 @53487 has 1 MA's), (396, 53475), (401, 53469), (412, 53448), (520, 53280), (565, 53193), (572, 53178), (578, 53166), (591, 53136), (668, 53007), (679, 52983), (688, 52965),

(695, 52947), (697, 52944), (726, 52935), (732, 52917), (780, 52830), (873, 52695), (883, 52680), (894, 52659), (972, 52578), (974, 52575), (999, 52518), (1000, 52512), (1004, 52500), (1020, 52449), (1030, 52425), (1047, 52386), (1052, 52374), (1054, 52371), (1097, 52278), (1107, 52263),

Gene: BonesMcCoy_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for BonesMcCoy_41:
(Start: 49 @31769 has 8 MA's), (187, 31415), (220, 31340), (Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (449, 30965), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (611, 30638), (634, 30596), (721, 30425), (732, 30404), (743, 30377), (769, 30329), (836, 30269), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: Bonino_40 Start: 30795, Stop: 29407, Start Num: 360
Candidate Starts for Bonino_40:
(220, 31017), (Start: 360 @30795 has 155 MA's), (445, 30651), (448, 30645), (449, 30642), (503, 30528), (518, 30501), (551, 30441), (562, 30414), (563, 30411), (611, 30315), (634, 30273), (721, 30102), (732, 30081), (738, 30066), (743, 30054), (769, 30006), (836, 29946), (887, 29850), (932, 29787), (966, 29733), (1000, 29649), (1002, 29643), (1007, 29631), (1033, 29556), (1045, 29535), (1068, 29481), (1070, 29478), (1081, 29454),

Gene: Bonray_190 Start: 102125, Stop: 100263, Start Num: 119
Candidate Starts for Bonray_190:
(Start: 119 @102125 has 185 MA's), (Start: 145 @102065 has 1 MA's), (Start: 182 @101996 has 1 MA's), (420, 101624), (443, 101582), (449, 101564), (506, 101480), (518, 101456), (530, 101432), (532, 101429), (555, 101384), (579, 101333), (595, 101303), (601, 101291), (661, 101162), (713, 101069), (717, 101063), (746, 101000), (748, 100994), (811, 100898), (814, 100892), (879, 100781), (921, 100709), (948, 100676), (951, 100667), (1004, 100547), (1010, 100529), (1047, 100430), (1048, 100427), (1058, 100406), (1083, 100352), (1107, 100316),

Gene: Bonum_76 Start: 56632, Stop: 54545, Start Num: 35
Candidate Starts for Bonum_76:
(Start: 35 @56632 has 37 MA's), (75, 56512), (Start: 93 @56467 has 1 MA's), (94, 56464), (Start: 200 @56209 has 9 MA's), (271, 56101), (309, 56047), (348, 55984), (409, 55894), (411, 55891), (426, 55867), (450, 55831), (538, 55693), (547, 55675), (554, 55666), (561, 55651), (618, 55528), (653, 55444), (668, 55417), (679, 55393), (731, 55294), (755, 55240), (791, 55186), (814, 55144), (842, 55105), (889, 55036), (903, 55003), (925, 54967), (950, 54922), (957, 54910), (989, 54850), (1011, 54787), (1080, 54622), (1092, 54598),

Gene: BooTeria_91 Start: 77289, Stop: 79133, Start Num: 60
Candidate Starts for BooTeria_91:
(Start: 60 @77289 has 17 MA's), (167, 77562), (Start: 252 @77670 has 13 MA's), (290, 77736), (331, 77805), (336, 77814), (447, 77889), (591, 78198), (614, 78243), (638, 78282), (647, 78303), (671, 78348), (729, 78405), (731, 78411), (745, 78444), (750, 78456), (757, 78468), (842, 78585), (846, 78591), (906, 78681), (925, 78714), (970, 78798), (1011, 78891), (1018, 78915), (1089, 79083), (1092, 79086),

Gene: Boopy_169 Start: 96841, Stop: 94931, Start Num: 59
Candidate Starts for Boopy_169:
(Start: 59 @96841 has 5 MA's), (Start: 144 @96637 has 3 MA's), (164, 96589), (192, 96544), (229, 96463), (239, 96451), (298, 96346), (314, 96319), (444, 96214), (453, 96190), (530, 96025), (668, 95758), (671, 95749), (686, 95722), (745, 95653), (888, 95404), (918, 95338), (933, 95314), (1002, 95179), (1021, 95119), (1052, 95047),

Gene: BouleyBill_39 Start: 30564, Stop: 29158, Start Num: 350
Candidate Starts for BouleyBill_39:
(Start: 257 @30711 has 1 MA's), (282, 30666), (306, 30636), (338, 30582), (Start: 350 @30564 has 2 MA's), (Start: 358 @30552 has 23 MA's), (Start: 362 @30546 has 4 MA's), (384, 30516), (445, 30408), (448, 30402), (449, 30399), (455, 30384), (551, 30198), (555, 30189), (563, 30168), (583, 30126), (611, 30072), (721, 29859), (732, 29838), (738, 29823), (743, 29811), (750, 29796), (770, 29760), (782, 29751), (809, 29736), (836, 29700), (891, 29601), (932, 29538), (951, 29511), (985, 29436), (989, 29430), (993, 29421), (999, 29406), (1000, 29400), (1002, 29394), (1007, 29382), (1058, 29259), (1061, 29247), (1099, 29172),

Gene: Bowman_188 Start: 101409, Stop: 99547, Start Num: 119
Candidate Starts for Bowman_188:
(Start: 119 @101409 has 185 MA's), (Start: 145 @101349 has 1 MA's), (Start: 182 @101280 has 1 MA's), (420, 100908), (443, 100866), (449, 100848), (506, 100764), (518, 100740), (530, 100716), (532, 100713), (555, 100668), (579, 100617), (595, 100587), (601, 100575), (661, 100446), (713, 100353), (717, 100347), (746, 100284), (748, 100278), (811, 100182), (814, 100176), (879, 100065), (921, 99993), (948, 99960), (951, 99951), (1004, 99831), (1010, 99813), (1047, 99714), (1048, 99711), (1058, 99690), (1083, 99636), (1107, 99600),

Gene: Bramble_42 Start: 26601, Stop: 28535, Start Num: 61
Candidate Starts for Bramble_42:
(13, 26361), (Start: 29 @26505 has 1 MA's), (Start: 57 @26595 has 1 MA's), (Start: 61 @26601 has 6 MA's), (115, 26748), (123, 26766), (Start: 126 @26775 has 9 MA's), (202, 26925), (281, 27051), (341, 27141), (348, 27150), (409, 27240), (433, 27282), (446, 27312), (518, 27444), (616, 27630), (625, 27648), (639, 27663), (668, 27720), (727, 27780), (759, 27852), (848, 27990), (894, 28056), (906, 28086), (907, 28089), (950, 28164), (990, 28242), (1010, 28302), (1044, 28392), (1054, 28410),

Gene: Braxoaddie_72 Start: 53132, Stop: 51096, Start Num: 36
Candidate Starts for Braxoaddie_72:
(12, 53300), (Start: 36 @53132 has 6 MA's), (56, 53066), (75, 53024), (115, 52919), (Start: 200 @52739 has 9 MA's), (Start: 243 @52682 has 5 MA's), (271, 52631), (281, 52616), (341, 52526), (348, 52514), (409, 52421), (454, 52349), (509, 52280), (543, 52208), (572, 52151), (668, 51971), (679, 51947), (710, 51884), (731, 51848), (778, 51761), (856, 51629), (888, 51590), (889, 51587), (907, 51542), (989, 51395), (1011, 51332), (1025, 51290), (1041, 51251), (1055, 51227),

Gene: Bread_183 Start: 100123, Stop: 98261, Start Num: 119
Candidate Starts for Bread_183:
(Start: 119 @100123 has 185 MA's), (Start: 145 @100063 has 1 MA's), (Start: 182 @99994 has 1 MA's), (420, 99622), (443, 99580), (449, 99562), (506, 99478), (518, 99454), (530, 99430), (532, 99427), (555, 99382), (573, 99343), (579, 99331), (595, 99301), (601, 99289), (661, 99160), (713, 99067), (717, 99061), (746, 98998), (748, 98992), (811, 98896), (814, 98890), (879, 98779), (921, 98707), (948, 98674), (951, 98665), (1004, 98545), (1010, 98527), (1047, 98428), (1048, 98425), (1058, 98404), (1083, 98350), (1107, 98314),

Gene: Breeniome_187 Start: 99754, Stop: 97892, Start Num: 119
Candidate Starts for Breeniome_187:
(Start: 119 @99754 has 185 MA's), (Start: 145 @99694 has 1 MA's), (Start: 182 @99625 has 1 MA's), (420, 99253), (443, 99211), (449, 99193), (506, 99109), (518, 99085), (530, 99061), (532, 99058), (555, 99013), (579, 98962), (595, 98932), (601, 98920), (661, 98791), (713, 98698), (717, 98692), (746, 98629), (748, 98623), (811, 98527), (814, 98521), (879, 98410), (921, 98338), (948, 98305), (951, 98296), (1004, 98176), (1010, 98158), (1047, 98059), (1048, 98056), (1058, 98035), (1083, 97981), (1107, 97945),

Gene: Breezic_59 Start: 51749, Stop: 50217, Start Num: 222
Candidate Starts for Breezic_59:
(102, 52004), (121, 51953), (142, 51902), (165, 51848), (181, 51818), (Start: 194 @51785 has 3 MA's), (201, 51776), (Start: 222 @51749 has 29 MA's), (321, 51581), (348, 51539), (380, 51491), (Start: 388 @51479 has 1 MA's), (396, 51467), (401, 51461), (412, 51440), (435, 51413), (520, 51272), (565, 51185), (572, 51170), (578, 51158), (591, 51128), (617, 51077), (639, 51050), (668, 50999), (695, 50939), (697, 50936), (732, 50909), (750, 50867), (780, 50822), (873, 50687), (883, 50672), (894, 50651), (957, 50594), (972, 50570), (974, 50567), (999, 50510), (1000, 50504), (1002, 50498), (1004, 50492), (1020, 50441), (1030, 50417), (1047, 50378), (1052, 50366), (1054, 50363), (1097, 50270), (1107, 50255), (1119, 50234),

Gene: BrotherBLo_29 Start: 22106, Stop: 23506, Start Num: 333
Candidate Starts for BrotherBLo_29:
(Start: 333 @22106 has 73 MA's), (381, 22169), (448, 22274), (484, 22361), (512, 22394), (540, 22445), (544, 22451), (582, 22532), (584, 22535), (588, 22541), (607, 22577), (616, 22595), (617, 22598), (634, 22631), (640, 22652), (646, 22670), (730, 22784), (740, 22811), (758, 22841), (763, 22850), (778, 22877), (798, 22910), (804, 22925), (840, 22979), (849, 23000), (857, 23012), (863, 23024), (988, 23240), (989, 23243), (990, 23246), (994, 23255), (997, 23261), (1009, 23297), (1030, 23357), (1038, 23384), (1084, 23474),

Gene: Buggaboo_74 Start: 57198, Stop: 55111, Start Num: 35
Candidate Starts for Buggaboo_74:
(Start: 35 @57198 has 37 MA's), (75, 57078), (Start: 93 @57033 has 1 MA's), (94, 57030), (Start: 200 @56775 has 9 MA's), (271, 56667), (309, 56613), (348, 56550), (409, 56460), (411, 56457), (426, 56433), (450, 56397), (538, 56259), (547, 56241), (554, 56232), (561, 56217), (618, 56094), (653, 56010), (668, 55983), (679, 55959), (731, 55860), (755, 55806), (791, 55752), (814, 55710), (842, 55671), (889, 55602), (903, 55569), (925, 55533), (950, 55488), (957, 55476), (989, 55416), (992, 55410), (1011, 55353), (1080, 55188), (1092, 55164),

Gene: Burrough_190 Start: 101968, Stop: 100106, Start Num: 119
Candidate Starts for Burrough_190:
(Start: 119 @101968 has 185 MA's), (Start: 145 @101908 has 1 MA's), (Start: 182 @101839 has 1 MA's), (420, 101467), (443, 101425), (449, 101407), (506, 101323), (518, 101299), (530, 101275), (532, 101272), (555, 101227), (579, 101176), (595, 101146), (601, 101134), (661, 101005), (713, 100912), (717, 100906), (746, 100843), (748, 100837), (811, 100741), (814, 100735), (879, 100624), (921, 100552), (948, 100519), (951, 100510), (1004, 100390), (1010, 100372), (1047, 100273), (1048, 100270), (1058, 100249), (1083, 100195), (1107, 100159),

Gene: Bustleton_39 Start: 30567, Stop: 29185, Start Num: 358
Candidate Starts for Bustleton_39:
(338, 30594), (Start: 358 @30567 has 23 MA's), (Start: 362 @30564 has 4 MA's), (384, 30534), (445, 30426), (448, 30420), (449, 30417), (455, 30402), (551, 30216), (555, 30207), (563, 30186), (583, 30144), (611, 30090), (721, 29877), (732, 29856), (738, 29841), (743, 29829), (750, 29814), (770, 29778), (782, 29769), (809, 29754), (836, 29718), (891, 29619), (932, 29556), (951, 29529), (985, 29454), (989, 29448), (993, 29439), (999, 29424), (1000, 29418), (1002, 29412), (1007, 29400), (1058, 29277), (1061, 29265),

Gene: Butterball_62 Start: 53762, Stop: 52230, Start Num: 222
Candidate Starts for Butterball_62:
(102, 54017), (121, 53966), (165, 53861), (181, 53831), (Start: 194 @53798 has 3 MA's), (201, 53789), (Start: 222 @53762 has 29 MA's), (321, 53594), (348, 53552), (Start: 360 @53534 has 155 MA's), (380, 53504), (Start: 388 @53492 has 1 MA's), (396, 53480), (401, 53474), (412, 53453), (520, 53285), (565, 53198), (572, 53183), (578, 53171), (591, 53141), (668, 53012), (679, 52988), (688, 52970),

(695, 52952), (697, 52949), (726, 52940), (732, 52922), (780, 52835), (873, 52700), (883, 52685), (894, 52664), (972, 52583), (974, 52580), (999, 52523), (1000, 52517), (1004, 52505), (1020, 52454), (1030, 52430), (1047, 52391), (1052, 52379), (1054, 52376), (1097, 52283), (1107, 52268),

Gene: Butterscotch_52 Start: 39729, Stop: 41672, Start Num: 51
Candidate Starts for Butterscotch_52:
(Start: 51 @39729 has 50 MA's), (66, 39756), (88, 39828), (107, 39882), (140, 39942), (147, 39960), (150, 39969), (177, 40020), (195, 40062), (Start: 222 @40098 has 29 MA's), (271, 40185), (331, 40278), (341, 40293), (354, 40314), (433, 40416), (447, 40449), (458, 40473), (509, 40533), (554, 40620), (587, 40695), (639, 40785), (668, 40836), (669, 40839), (720, 40929), (731, 40947), (745, 40980), (778, 41034), (784, 41046), (796, 41064), (842, 41127), (903, 41211), (969, 41328), (989, 41376), (1011, 41439), (1041, 41523),

Gene: Bxz1_179 Start: 103167, Stop: 101305, Start Num: 119
Candidate Starts for Bxz1_179:
(Start: 119 @103167 has 185 MA's), (Start: 145 @103107 has 1 MA's), (Start: 182 @103038 has 1 MA's), (420, 102666), (443, 102624), (449, 102606), (506, 102522), (518, 102498), (530, 102474), (532, 102471), (555, 102426), (579, 102375), (595, 102345), (601, 102333), (661, 102204), (713, 102111), (717, 102105), (746, 102042), (748, 102036), (811, 101940), (814, 101934), (879, 101823), (921, 101751), (948, 101718), (951, 101709), (1004, 101589), (1010, 101571), (1047, 101472), (1048, 101469), (1058, 101448), (1083, 101394), (1107, 101358),

Gene: Byron23_42 Start: 31117, Stop: 29729, Start Num: 360
Candidate Starts for Byron23_42:
(Start: 49 @31768 has 8 MA's), (187, 31414), (220, 31339), (Start: 360 @31117 has 155 MA's), (445, 30973), (448, 30967), (449, 30964), (503, 30850), (518, 30823), (551, 30763), (562, 30736), (563, 30733), (611, 30637), (634, 30595), (684, 30484), (721, 30424), (738, 30388), (743, 30376), (763, 30343), (769, 30328), (836, 30268), (887, 30172), (932, 30109), (966, 30055), (1000, 29971), (1002, 29965), (1007, 29953), (1045, 29857), (1068, 29803), (1070, 29800), (1081, 29776),

Gene: C3PO_72 Start: 52724, Stop: 50799, Start Num: 65
Candidate Starts for C3PO_72:
(33, 52817), (Start: 65 @52724 has 8 MA's), (134, 52553), (155, 52499), (180, 52445), (271, 52295), (375, 52139), (409, 52088), (411, 52085), (508, 51956), (509, 51953), (543, 51881), (550, 51872), (731, 51515), (745, 51482), (856, 51296), (992, 51077), (997, 51065), (1002, 51047), (1011, 51020), (1031, 50957), (1050, 50924), (1081, 50852),

Gene: CMP1_51 Start: 48836, Stop: 47235, Start Num: 253
Candidate Starts for CMP1_51:
(Start: 253 @48836 has 1 MA's), (324, 48719), (393, 48617), (424, 48572), (435, 48548), (443, 48533), (511, 48410), (553, 48326), (588, 48242), (595, 48230), (654, 48110), (691, 48029), (759, 47909), (767, 47897), (793, 47855), (810, 47828), (820, 47813), (830, 47801), (839, 47792), (859, 47747), (904, 47681), (962, 47591), (983, 47537), (1013, 47456), (1030, 47408), (1061, 47336), (1062, 47333), (1073, 47309), (1076, 47303), (1097, 47261),

Gene: CN1A_14 Start: 6751, Stop: 8316, Start Num: 263
Candidate Starts for CN1A_14:
(263, 6751), (271, 6763), (293, 6793), (300, 6802), (314, 6826), (323, 6844), (334, 6862), (335, 6865), (341, 6877), (Start: 358 @6904 has 23 MA's), (445, 7060), (448, 7069), (458, 7093), (468, 7120), (504, 7147), (538, 7216), (542, 7222), (551, 7234), (574, 7279), (585, 7303), (588, 7309), (612, 7354), (631, 7399), (654, 7456), (690, 7540), (732, 7600), (743, 7627), (745, 7630), (746, 7633), (802, 7735), (807, 7741), (841, 7792), (944, 7984), (953, 8002), (959, 8014), (989, 8080), (1004, 8122), (1007, 8128), (1014, 8155), (1016, 8161), (1044, 8233), (1065, 8284),

Gene: Cactojaque_184 Start: 100035, Stop: 98173, Start Num: 119
Candidate Starts for Cactojaque_184:
(Start: 119 @100035 has 185 MA's), (Start: 145 @99975 has 1 MA's), (Start: 182 @99906 has 1 MA's), (420, 99534), (443, 99492), (449, 99474), (506, 99390), (518, 99366), (530, 99342), (532, 99339), (555, 99294), (579, 99243), (595, 99213), (601, 99201), (661, 99072), (713, 98979), (717, 98973), (746, 98910), (748, 98904), (811, 98808), (814, 98802), (879, 98691), (921, 98619), (948, 98586), (951, 98577), (1004, 98457), (1010, 98439), (1047, 98340), (1048, 98337), (1058, 98316), (1083, 98262), (1107, 98226),

Gene: Cali_182 Start: 101379, Stop: 99646, Start Num: 182
Candidate Starts for Cali_182:
(Start: 119 @101508 has 185 MA's), (Start: 145 @101448 has 1 MA's), (Start: 182 @101379 has 1 MA's), (420, 101007), (443, 100965), (449, 100947), (506, 100863), (518, 100839), (530, 100815), (532, 100812), (555, 100767), (579, 100716), (595, 100686), (601, 100674), (661, 100545), (713, 100452), (717, 100446), (746, 100383), (748, 100377), (811, 100281), (814, 100275), (879, 100164), (921, 100092), (948, 100059), (951, 100050), (1004, 99930), (1010, 99912), (1047, 99813), (1048, 99810), (1058, 99789), (1083, 99735), (1107, 99699),

Gene: Calix_40 Start: 30802, Stop: 29414, Start Num: 360
Candidate Starts for Calix_40:
(220, 31024), (Start: 360 @30802 has 155 MA's), (445, 30658), (448, 30652), (449, 30649), (503, 30535), (518, 30508), (551, 30448), (562, 30421), (563, 30418), (611, 30322), (634, 30280), (721, 30109), (732, 30088), (738, 30073), (743, 30061), (769, 30013), (836, 29953), (887, 29857), (932, 29794), (966, 29740), (1000, 29656), (1002, 29650), (1007, 29638), (1033, 29563), (1045, 29542), (1068, 29488), (1070, 29485), (1081, 29461),

Gene: Camerico_63 Start: 54751, Stop: 53234, Start Num: 248
Candidate Starts for Camerico_63:
(Start: 248 @54751 has 4 MA's), (Start: 294 @54673 has 29 MA's), (306, 54655), (312, 54643), (321, 54628), (Start: 362 @54574 has 4 MA's), (380, 54556), (384, 54550), (418, 54496), (434, 54478), (462, 54418), (472, 54394), (528, 54313), (549, 54274), (563, 54247), (574, 54226), (586, 54199), (589, 54190), (668, 54058), (679, 54034), (688, 54016), (695, 53998), (700, 53989), (856, 53773), (860, 53767), (871, 53752), (900, 53701), (937, 53647), (1004, 53506), (1026, 53440), (1030, 53431), (1045, 53398),

Gene: Candle_64 Start: 47961, Stop: 49721, Start Num: 188
Candidate Starts for Candle_64:
(Start: 188 @47961 has 10 MA's), (Start: 232 @48030 has 1 MA's), (292, 48126), (300, 48135), (348, 48216), (378, 48261), (506, 48462), (530, 48510), (561, 48570), (565, 48582), (596, 48648), (655, 48771), (668, 48795), (679, 48819), (731, 49023), (745, 49056), (751, 49071), (778, 49110), (780, 49113), (784, 49122), (842, 49191), (854, 49215), (933, 49323), (989, 49446), (990, 49449), (1000, 49476), (1010, 49506), (1012, 49512), (1013, 49515), (1018, 49533), (1022, 49545), (1083, 49680), (1098, 49710),

Gene: Canowicakte_29 Start: 22165, Stop: 23559, Start Num: 333
Candidate Starts for Canowicakte_29:
(Start: 333 @22165 has 73 MA's), (381, 22222), (448, 22327), (484, 22414), (540, 22498), (542, 22501), (544, 22504), (588, 22594), (607, 22630), (612, 22639), (616, 22648), (640, 22705), (646, 22723), (677, 22756), (686, 22768), (730, 22837), (740, 22864), (753, 22888), (778, 22930), (798, 22963), (804, 22978), (814, 22987), (863, 23077), (908, 23146), (926, 23173), (939, 23191), (944, 23203), (988, 23293), (990, 23299), (994, 23308), (997, 23314), (1009, 23350), (1038, 23437), (1065, 23488), (1084, 23527), (1094, 23551),

Gene: Capablanca_192 Start: 102720, Stop: 100858, Start Num: 119
Candidate Starts for Capablanca_192:
(Start: 119 @102720 has 185 MA's), (Start: 145 @102660 has 1 MA's), (Start: 182 @102591 has 1 MA's), (420, 102219), (443, 102177), (449, 102159), (506, 102075), (518, 102051), (530, 102027), (532, 102024), (555, 101979), (579, 101928), (595, 101898), (601, 101886), (661, 101757), (713, 101664), (717, 101658), (746, 101595), (748, 101589), (811, 101493), (814, 101487), (879, 101376), (921, 101304), (948, 101271), (951, 101262), (1004, 101142), (1010, 101124), (1047, 101025), (1048, 101022), (1058, 101001), (1083, 100947), (1107, 100911),

Gene: CaptainRex_40 Start: 29071, Stop: 27644, Start Num: 360
Candidate Starts for CaptainRex_40:
(Start: 360 @29071 has 155 MA's), (380, 29041), (384, 29035), (448, 28921), (449, 28918), (562, 28681), (563, 28678), (686, 28423), (717, 28372), (721, 28366), (743, 28318), (763, 28285), (769, 28270), (814, 28198), (836, 28171), (840, 28162), (862, 28117), (865, 28111), (882, 28084), (932, 28012), (973, 27940), (989, 27904), (993, 27895), (999, 27880), (1000, 27874), (1007, 27856), (1019, 27814), (1048, 27751), (1076, 27688), (1081, 27679),

Gene: Caravan_179 Start: 100429, Stop: 98567, Start Num: 119
Candidate Starts for Caravan_179:
(Start: 119 @100429 has 185 MA's), (Start: 145 @100369 has 1 MA's), (Start: 182 @100300 has 1 MA's), (420, 99928), (443, 99886), (449, 99868), (506, 99784), (518, 99760), (530, 99736), (532, 99733), (555, 99688), (579, 99637), (595, 99607), (601, 99595), (661, 99466), (713, 99373), (717, 99367), (746, 99304), (748, 99298), (811, 99202), (814, 99196), (879, 99085), (921, 99013), (948, 98980), (951, 98971), (1004, 98851), (1010, 98833), (1047, 98734), (1048, 98731), (1058, 98710), (1083, 98656), (1107, 98620),

Gene: CardboardBox_39 Start: 26376, Stop: 24544, Start Num: 64
Candidate Starts for CardboardBox_39:
(Start: 64 @26376 has 19 MA's), (Start: 80 @26319 has 2 MA's), (173, 26118), (Start: 252 @25983 has 13 MA's), (331, 25848), (348, 25821), (447, 25764), (453, 25749), (472, 25695), (518, 25599), (521, 25593), (528, 25578), (552, 25533), (572, 25485), (581, 25464), (589, 25446), (616, 25395), (666, 25302), (671, 25290), (731, 25227), (777, 25155), (812, 25095), (842, 25074), (888, 25008), (900, 24990), (906, 24972), (907, 24969), (927, 24933), (989, 24825), (993, 24816), (1013, 24756), (1030, 24708),

Gene: CarisSwetlik_43 Start: 32061, Stop: 30658, Start Num: 360
Candidate Starts for CarisSwetlik_43:
(208, 32295), (234, 32244), (245, 32223), (273, 32172), (285, 32154), (Start: 360 @32061 has 155 MA's), (445, 31917), (448, 31911), (474, 31848), (503, 31794), (518, 31767), (551, 31707), (562, 31680), (563, 31677), (611, 31581), (634, 31539), (715, 31377), (721, 31368), (732, 31347), (743, 31320), (771, 31269), (836, 31212), (862, 31158), (887, 31116), (917, 31071), (992, 30939), (1000, 30915), (1002, 30909), (1007, 30897), (1045, 30801), (1058, 30774), (1068, 30747), (1099, 30690),

Gene: Carostasia_39 Start: 30625, Stop: 29213, Start Num: 360
Candidate Starts for Carostasia_39:
(Start: 358 @30628 has 23 MA's), (Start: 360 @30625 has 155 MA's), (384, 30595), (Start: 388 @30589 has 1 MA's), (411, 30556), (448, 30481), (450, 30475), (503, 30364), (518, 30337), (544, 30286), (551, 30277), (562, 30250), (563, 30247), (583, 30205), (611, 30151), (686, 29995), (717, 29944), (721, 29938), (732, 29917), (735, 29911), (738, 29902), (743, 29890), (748, 29878), (796, 29800), (836, 29740), (839, 29734), (862, 29686), (887, 29644), (932, 29581), (944, 29569), (957, 29545), (958, 29542), (989, 29473), (993, 29464), (999, 29449), (1000, 29443), (1002, 29437), (1007, 29425), (1048, 29320), (1058, 29302), (1061, 29290), (1083, 29245),

Gene: Carpal_29 Start: 22107, Stop: 23507, Start Num: 333
Candidate Starts for Carpal_29:
(Start: 333 @22107 has 73 MA's), (381, 22170), (448, 22275), (449, 22278), (484, 22362), (512, 22395), (540, 22446), (544, 22452), (582, 22533), (584, 22536), (588, 22542), (607, 22578), (616, 22596), (617, 22599), (634, 22632), (640, 22653), (646, 22671), (677, 22704), (730, 22785), (740, 22812), (758, 22842), (763, 22851), (778, 22878), (798, 22911), (804, 22926), (840, 22980), (849, 23001), (857, 23013), (863, 23025), (990, 23247), (994, 23256), (997, 23262), (1009, 23298), (1030, 23358), (1038, 23385), (1084, 23475),

Gene: Casablancas_85 Start: 49567, Stop: 48047, Start Num: 250
Candidate Starts for Casablancas_85:
(230, 49600), (Start: 250 @49567 has 29 MA's), (281, 49516), (375, 49408), (419, 49342), (449, 49276), (515, 49153), (523, 49138), (552, 49081), (566, 49048), (568, 49045), (598, 48982), (622, 48931), (626, 48922), (631, 48913), (652, 48859), (673, 48820), (681, 48805), (726, 48736), (737, 48706), (767, 48643), (814, 48571), (938, 48385), (995, 48277), (1005, 48247), (1020, 48202), (1040, 48151), (1070, 48088),

Gene: Casey_37 Start: 29766, Stop: 28396, Start Num: 360
Candidate Starts for Casey_37:
(Start: 360 @29766 has 155 MA's), (441, 29637), (450, 29616), (500, 29505), (502, 29502), (546, 29418), (551, 29412), (556, 29400), (563, 29382), (574, 29361), (611, 29286), (630, 29253), (715, 29082), (717, 29079), (721, 29073), (725, 29070), (738, 29037), (769, 28977), (836, 28917), (839, 28911), (840, 28908), (841, 28905), (887, 28821), (971, 28689), (989, 28650), (999, 28626), (1000, 28620), (1007, 28602), (1045, 28506), (1058, 28479), (1061, 28467), (1076, 28434), (1083, 28422),

Gene: Cassita_89 Start: 50170, Stop: 48713, Start Num: 225
Candidate Starts for Cassita_89:
(Start: 225 @50170 has 5 MA's), (241, 50140), (325, 50026), (382, 49954), (390, 49942), (422, 49894), (441, 49852), (455, 49816), (465, 49792), (510, 49720), (514, 49714), (519, 49702), (533, 49675), (541, 49654), (580, 49579), (591, 49561), (637, 49465), (640, 49456), (691, 49351), (717, 49321), (719, 49318), (725, 49312), (732, 49300), (733, 49297), (763, 49237), (767, 49228), (842, 49138), (897, 49084), (920, 49048), (979, 48967), (980, 48964), (986, 48961), (991, 48952), (1018, 48874), (1020, 48868), (1053, 48790), (1063, 48769), (1075, 48742), (1077, 48739),

Gene: Catera_183 Start: 99715, Stop: 97853, Start Num: 119
Candidate Starts for Catera_183:
(Start: 119 @99715 has 185 MA's), (Start: 145 @99655 has 1 MA's), (Start: 182 @99586 has 1 MA's), (420, 99214), (443, 99172), (449, 99154), (506, 99070), (518, 99046), (530, 99022), (532, 99019), (555, 98974), (579, 98923), (595, 98893), (601, 98881), (661, 98752), (713, 98659), (717, 98653), (746, 98590), (748, 98584), (811, 98488), (814, 98482), (879, 98371), (921, 98299), (948, 98266), (951, 98257), (1004, 98137), (1010, 98119), (1047, 98020), (1048, 98017), (1058, 97996), (1083, 97942), (1107, 97906),

Gene: CathyBurgh_59 Start: 52326, Stop: 50794, Start Num: 222
Candidate Starts for CathyBurgh_59:
(102, 52581), (121, 52530), (142, 52479), (165, 52425), (181, 52395), (Start: 194 @52362 has 3 MA's), (201, 52353), (Start: 222 @52326 has 29 MA's), (321, 52158), (348, 52116), (380, 52068), (Start: 388 @52056 has 1 MA's), (396, 52044), (401, 52038), (412, 52017), (435, 51990), (520, 51849), (565, 51762), (572, 51747), (578, 51735), (591, 51705), (617, 51654), (639, 51627), (668, 51576), (679, 51552), (688, 51534), (695, 51516), (697, 51513), (732, 51486), (750, 51444), (780, 51399), (873, 51264), (883, 51249), (894, 51228), (957, 51171), (972, 51147), (999, 51087), (1000, 51081), (1002, 51075), (1004, 51069), (1020, 51018), (1030, 50994), (1047, 50955), (1052, 50943), (1054, 50940),

(1097, 50847), (1107, 50832), (1119, 50811),

Gene: Cborch11_63 Start: 46091, Stop: 48148, Start Num: 45
Candidate Starts for Cborch11_63:
(Start: 45 @46091 has 11 MA's), (72, 46151), (73, 46154), (106, 46247), (111, 46259), (120, 46280), (Start: 182 @46403 has 1 MA's), (183, 46406), (187, 46415), (202, 46448), (206, 46469), (229, 46517), (255, 46559), (296, 46622), (309, 46643), (314, 46649), (348, 46703), (462, 46889), (466, 46901), (474, 46919), (506, 46934), (509, 46940), (668, 47258), (669, 47261), (689, 47306), (727, 47357), (731, 47369), (778, 47459), (784, 47471), (802, 47504), (819, 47528), (826, 47537), (907, 47627), (926, 47660), (985, 47771), (989, 47774), (990, 47777), (992, 47780), (1004, 47816), (1010, 47834), (1031, 47900), (1041, 47918), (1126, 48095),

Gene: Cece_97 Start: 81318, Stop: 79462, Start Num: 57
Candidate Starts for Cece_97:
(Start: 57 @81318 has 1 MA's), (Start: 80 @81255 has 2 MA's), (109, 81186), (Start: 159 @81078 has 18 MA's), (224, 80991), (278, 80901), (298, 80868), (303, 80862), (344, 80790), (444, 80709), (446, 80703), (518, 80544), (587, 80400), (617, 80340), (637, 80310), (668, 80250), (671, 80241), (729, 80184), (731, 80178), (745, 80145), (750, 80133), (770, 80100), (807, 80040), (907, 79911), (909, 79908), (925, 79881), (949, 79839), (961, 79818), (1002, 79731), (1030, 79650), (1048, 79608), (1058, 79584), (1083, 79527),

Gene: Chako_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Chako_40:
(Start: 49 @31454 has 8 MA's), (187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: ChamoyPickle_40 Start: 26916, Stop: 25084, Start Num: 64
Candidate Starts for ChamoyPickle_40:
(Start: 64 @26916 has 19 MA's), (Start: 80 @26859 has 2 MA's), (173, 26658), (Start: 252 @26523 has 13 MA's), (331, 26388), (348, 26361), (447, 26304), (453, 26289), (472, 26235), (518, 26139), (521, 26133), (528, 26118), (552, 26073), (572, 26025), (581, 26004), (589, 25986), (616, 25935), (666, 25842), (671, 25830), (731, 25767), (777, 25695), (812, 25635), (842, 25614), (888, 25548), (900, 25530), (906, 25512), (907, 25509), (927, 25473), (989, 25365), (993, 25356), (1013, 25296), (1030, 25248),

Gene: Chamuel_40 Start: 30828, Stop: 29407, Start Num: 360
Candidate Starts for Chamuel_40:
(220, 31050), (Start: 360 @30828 has 155 MA's), (445, 30684), (448, 30678), (449, 30675), (503, 30561), (518, 30534), (551, 30474), (562, 30447), (563, 30444), (611, 30348), (634, 30306), (715, 30144), (721, 30135), (732, 30114), (743, 30087), (763, 30054), (769, 30039), (821, 29964), (836, 29946), (887, 29850), (932, 29787), (966, 29733), (1000, 29649), (1002, 29643), (1007, 29631), (1033, 29556), (1045, 29535), (1068, 29481), (1070, 29478), (1081, 29454),

Gene: Chargie21_186 Start: 100015, Stop: 98153, Start Num: 119
Candidate Starts for Chargie21_186:
(Start: 119 @100015 has 185 MA's), (Start: 145 @99955 has 1 MA's), (Start: 182 @99886 has 1 MA's), (420, 99514), (443, 99472), (449, 99454), (506, 99370), (518, 99346), (530, 99322), (532, 99319), (555, 99274), (579, 99223), (595, 99193), (601, 99181), (661, 99052), (713, 98959), (717, 98953), (746, 98890), (748, 98884), (811, 98788), (814, 98782), (879, 98671), (921, 98599), (948, 98566), (951, 98557), (1004, 98437), (1010, 98419), (1047, 98320), (1048, 98317), (1058, 98296),

(1083, 98242), (1107, 98206),

Gene: Charianelly_57 Start: 52738, Stop: 51197, Start Num: 194
Candidate Starts for Charianelly_57:
(102, 52957), (154, 52828), (Start: 194 @52738 has 3 MA's), (Start: 294 @52609 has 29 MA's), (321, 52564), (380, 52474), (382, 52471), (386, 52465), (401, 52444), (444, 52381), (477, 52303), (510, 52273), (520, 52255), (565, 52168), (572, 52153), (591, 52111), (640, 52030), (668, 51982), (688, 51940), (695, 51922), (697, 51919), (732, 51892), (755, 51841), (780, 51805), (810, 51754), (873, 51670), (886, 51649), (999, 51493), (1000, 51487), (1004, 51475), (1052, 51349), (1107, 51235),

Gene: CharlieB_181 Start: 99957, Stop: 98095, Start Num: 119
Candidate Starts for CharlieB_181:
(Start: 119 @99957 has 185 MA's), (Start: 145 @99897 has 1 MA's), (Start: 182 @99828 has 1 MA's), (420, 99456), (443, 99414), (449, 99396), (506, 99312), (518, 99288), (530, 99264), (532, 99261), (555, 99216), (579, 99165), (595, 99135), (601, 99123), (661, 98994), (713, 98901), (717, 98895), (746, 98832), (748, 98826), (811, 98730), (814, 98724), (879, 98613), (921, 98541), (948, 98508), (951, 98499), (1004, 98379), (1010, 98361), (1047, 98262), (1048, 98259), (1058, 98238), (1083, 98184), (1107, 98148),

Gene: Charminar_59 Start: 39177, Stop: 41090, Start Num: 51
Candidate Starts for Charminar_59:
(Start: 50 @39174 has 13 MA's), (Start: 51 @39177 has 50 MA's), (Start: 58 @39189 has 39 MA's), (75, 39237), (87, 39270), (158, 39429), (173, 39456), (178, 39465), (Start: 222 @39537 has 29 MA's), (296, 39657), (335, 39720), (399, 39810), (418, 39837), (506, 39966), (518, 39990), (538, 40032), (543, 40044), (554, 40059), (562, 40080), (572, 40101), (581, 40122), (610, 40179), (618, 40197), (638, 40233), (662, 40275), (689, 40335), (745, 40431), (746, 40434), (881, 40611), (918, 40662), (969, 40752), (989, 40788), (992, 40794), (1010, 40848), (1022, 40887), (1066, 40989), (1072, 41004), (1083, 41025),

Gene: ChaylaJr_186 Start: 100443, Stop: 98581, Start Num: 119
Candidate Starts for ChaylaJr_186:
(Start: 119 @100443 has 185 MA's), (Start: 145 @100383 has 1 MA's), (Start: 182 @100314 has 1 MA's), (420, 99942), (443, 99900), (449, 99882), (506, 99798), (518, 99774), (530, 99750), (532, 99747), (555, 99702), (579, 99651), (595, 99621), (601, 99609), (661, 99480), (713, 99387), (717, 99381), (746, 99318), (748, 99312), (811, 99216), (814, 99210), (879, 99099), (921, 99027), (948, 98994), (951, 98985), (1004, 98865), (1010, 98847), (1047, 98748), (1048, 98745), (1058, 98724), (1083, 98670), (1107, 98634),

Gene: Cheeto1_42 Start: 31179, Stop: 29788, Start Num: 360
Candidate Starts for Cheeto1_42:
(Start: 360 @31179 has 155 MA's), (445, 31035), (448, 31029), (474, 30966), (518, 30885), (551, 30825), (562, 30798), (563, 30795), (611, 30699), (634, 30657), (684, 30546), (721, 30486), (732, 30465), (743, 30438), (771, 30387), (814, 30357), (836, 30330), (841, 30318), (891, 30231), (932, 30168), (944, 30156), (973, 30096), (989, 30060), (992, 30054), (999, 30036), (1000, 30030), (1002, 30024), (1019, 29970), (1045, 29916), (1058, 29889), (1061, 29877),

Gene: Chelms_59 Start: 52169, Stop: 50760, Start Num: 294
Candidate Starts for Chelms_59:
(102, 52547), (121, 52496), (142, 52445), (165, 52391), (181, 52361), (Start: 194 @52328 has 3 MA's), (201, 52319), (Start: 222 @52292 has 29 MA's), (Start: 294 @52169 has 29 MA's), (321, 52124), (348, 52082), (380, 52034), (382, 52031), (386, 52025), (Start: 388 @52022 has 1 MA's), (396, 52010), (401, 52004), (435, 51956), (436, 51953), (510, 51833), (520, 51815), (555, 51752), (565, 51728), (572, 51713), (591, 51671), (617, 51620), (639, 51593), (668, 51542), (695, 51482), (697, 51479), (726,

51470), (732, 51452), (750, 51410), (780, 51365), (781, 51362), (873, 51230), (883, 51215), (894, 51194), (972, 51113), (974, 51110), (999, 51053), (1000, 51047), (1004, 51035), (1020, 50984), (1026, 50969), (1030, 50960), (1047, 50921), (1052, 50909), (1097, 50813), (1107, 50798),

Gene: Chepli_42 Start: 30524, Stop: 29118, Start Num: 360
Candidate Starts for Chepli_42:
(Start: 360 @30524 has 155 MA's), (380, 30494), (447, 30377), (448, 30374), (449, 30371), (460, 30344), (474, 30311), (482, 30290), (503, 30248), (518, 30221), (562, 30134), (563, 30131), (583, 30089), (607, 30038), (686, 29876), (721, 29819), (748, 29759), (754, 29750), (763, 29738), (809, 29699), (811, 29696), (828, 29672), (831, 29669), (836, 29663), (882, 29576), (887, 29567), (891, 29564), (989, 29396), (993, 29387), (999, 29372), (1000, 29366), (1002, 29360), (1007, 29348), (1058, 29225), (1067, 29201), (1081, 29171),

Gene: CherryTomatoes_133 Start: 94182, Stop: 92308, Start Num: 119
Candidate Starts for CherryTomatoes_133:
(Start: 119 @94182 has 185 MA's), (153, 94110), (184, 94053), (400, 93717), (420, 93690), (458, 93615), (489, 93549), (506, 93537), (508, 93534), (538, 93471), (539, 93468), (551, 93450), (579, 93390), (590, 93369), (691, 93153), (717, 93120), (729, 93099), (746, 93057), (811, 92955), (879, 92838), (921, 92766), (932, 92751), (943, 92742), (948, 92733), (951, 92724), (1004, 92604), (1010, 92586), (1013, 92577), (1015, 92568), (1047, 92487), (1048, 92484), (1093, 92388), (1128, 92316),

Gene: ChewChew_25 Start: 20575, Stop: 21969, Start Num: 333
Candidate Starts for ChewChew_25:
(Start: 333 @20575 has 73 MA's), (381, 20632), (448, 20737), (449, 20740), (484, 20824), (512, 20857), (540, 20908), (544, 20914), (582, 20995), (584, 20998), (588, 21004), (607, 21040), (616, 21058), (617, 21061), (634, 21094), (640, 21115), (730, 21247), (740, 21274), (763, 21313), (773, 21334), (778, 21340), (798, 21373), (804, 21388), (814, 21397), (840, 21442), (858, 21478), (888, 21520), (926, 21583), (939, 21601), (988, 21703), (989, 21706), (997, 21724), (998, 21727), (1007, 21751), (1009, 21760), (1038, 21847), (1084, 21937), (1094, 21961),

Gene: ChewyVIII_83 Start: 61890, Stop: 59662, Start Num: 38
Candidate Starts for ChewyVIII_83:
(Start: 38 @61890 has 1 MA's), (155, 61581), (178, 61530), (Start: 200 @61485 has 9 MA's), (271, 61377), (309, 61323), (328, 61293), (343, 61269), (367, 61233), (380, 61212), (407, 61173), (409, 61167), (485, 60918), (543, 60777), (550, 60768), (565, 60735), (572, 60720), (597, 60666), (620, 60621), (633, 60597), (710, 60450), (720, 60432), (731, 60414), (746, 60378), (780, 60324), (791, 60306), (856, 60195), (889, 60153), (933, 60063), (989, 59958), (997, 59940), (1025, 59853), (1036, 59823), (1041, 59814), (1065, 59763), (1074, 59739), (1080, 59730), (1092, 59706), (1102, 59688),

Gene: ChickenKing_40 Start: 31093, Stop: 29702, Start Num: 360
Candidate Starts for ChickenKing_40:
(Start: 360 @31093 has 155 MA's), (445, 30949), (448, 30943), (474, 30880), (518, 30799), (551, 30739), (562, 30712), (563, 30709), (567, 30703), (611, 30613), (634, 30571), (721, 30400), (732, 30379), (738, 30364), (743, 30352), (771, 30301), (836, 30244), (841, 30232), (932, 30082), (944, 30070), (973, 30010), (989, 29974), (992, 29968), (999, 29950), (1000, 29944), (1002, 29938), (1019, 29884), (1033, 29851), (1045, 29830), (1061, 29791),

Gene: ChickenPhender_185 Start: 100162, Stop: 98300, Start Num: 119
Candidate Starts for ChickenPhender_185:
(Start: 119 @100162 has 185 MA's), (Start: 145 @100102 has 1 MA's), (Start: 182 @100033 has 1 MA's), (420, 99661), (443, 99619), (449, 99601), (506, 99517), (518, 99493), (530, 99469), (532, 99466), (555, 99421), (579, 99370), (595, 99340), (601, 99328), (661, 99199), (713, 99106), (717, 99100), (746, 99037), (748, 99031), (811, 98935), (814, 98929), (879, 98818), (921, 98746), (948,

98713), (951, 98704), (1004, 98584), (1010, 98566), (1047, 98467), (1048, 98464), (1058, 98443), (1083, 98389), (1107, 98353),

Gene: ChikPic_40 Start: 30953, Stop: 29541, Start Num: 360
Candidate Starts for ChikPic_40:
(Start: 358 @30956 has 23 MA's), (Start: 360 @30953 has 155 MA's), (384, 30923), (Start: 388 @30917 has 1 MA's), (411, 30884), (503, 30692), (518, 30665), (551, 30605), (562, 30578), (563, 30575), (583, 30533), (611, 30479), (634, 30437), (686, 30323), (721, 30266), (732, 30245), (738, 30230), (743, 30218), (748, 30206), (750, 30203), (763, 30185), (809, 30104), (836, 30068), (862, 30014), (887, 29972), (907, 29942), (923, 29918), (930, 29912), (958, 29870), (989, 29801), (999, 29777), (1000, 29771), (1002, 29765), (1007, 29753), (1045, 29657), (1048, 29648), (1058, 29630), (1061, 29618), (1083, 29573),

Gene: Chill_55 Start: 39836, Stop: 41779, Start Num: 51
Candidate Starts for Chill_55:
(Start: 51 @39836 has 50 MA's), (66, 39863), (88, 39935), (107, 39989), (140, 40049), (147, 40067), (150, 40076), (177, 40127), (195, 40169), (Start: 222 @40205 has 29 MA's), (271, 40292), (331, 40385), (341, 40400), (354, 40421), (433, 40523), (447, 40556), (458, 40580), (509, 40640), (554, 40727), (587, 40802), (639, 40892), (668, 40943), (669, 40946), (720, 41036), (731, 41054), (745, 41087), (778, 41141), (784, 41153), (796, 41171), (842, 41234), (903, 41318), (969, 41435), (989, 41483), (1011, 41546), (1041, 41630),

Gene: Chilliams_99 Start: 73536, Stop: 75392, Start Num: 60
Candidate Starts for Chilliams_99:
(Start: 60 @73536 has 17 MA's), (149, 73752), (167, 73794), (170, 73800), (206, 73833), (Start: 243 @73902 has 5 MA's), (Start: 252 @73917 has 13 MA's), (271, 73953), (296, 73992), (344, 74073), (446, 74133), (506, 74268), (647, 74550), (671, 74595), (731, 74658), (745, 74691), (750, 74703), (780, 74751), (791, 74769), (815, 74814), (842, 74835), (852, 74856), (888, 74895), (903, 74928), (925, 74964), (933, 74979), (949, 75006), (968, 75042), (970, 75048), (1018, 75165), (1030, 75195), (1092, 75336),

Gene: Chipper1996_910 Start: 59054, Stop: 60799, Start Num: 159
Candidate Starts for Chipper1996_910:
(Start: 159 @59054 has 18 MA's), (168, 59075), (205, 59153), (215, 59177), (238, 59222), (251, 59246), (272, 59285), (370, 59444), (375, 59453), (406, 59495), (418, 59516), (441, 59549), (444, 59555), (445, 59558), (450, 59573), (459, 59588), (500, 59675), (508, 59687), (511, 59693), (529, 59729), (542, 59753), (551, 59765), (613, 59897), (652, 59981), (667, 60002), (672, 60014), (680, 60029), (682, 60032), (692, 60056), (714, 60080), (725, 60092), (747, 60149), (779, 60194), (818, 60260), (827, 60272), (835, 60281), (842, 60305), (845, 60308), (864, 60344), (866, 60350), (877, 60374), (928, 60455), (931, 60461), (942, 60479), (960, 60506), (964, 60512), (977, 60542), (978, 60548), (1006, 60608), (1021, 60659), (1024, 60665), (1038, 60704),

Gene: ChipsNGuac_38 Start: 26376, Stop: 24544, Start Num: 64
Candidate Starts for ChipsNGuac_38:
(Start: 64 @26376 has 19 MA's), (Start: 80 @26319 has 2 MA's), (173, 26118), (Start: 252 @25983 has 13 MA's), (331, 25848), (348, 25821), (447, 25764), (453, 25749), (472, 25695), (518, 25599), (521, 25593), (528, 25578), (552, 25533), (572, 25485), (581, 25464), (589, 25446), (616, 25395), (666, 25302), (671, 25290), (731, 25227), (777, 25155), (812, 25095), (842, 25074), (888, 25008), (900, 24990), (906, 24972), (907, 24969), (927, 24933), (989, 24825), (993, 24816), (1013, 24756), (1030, 24708),

Gene: Chivey_40 Start: 25169, Stop: 27076, Start Num: 58
Candidate Starts for Chivey_40:

(17, 24995), (Start: 58 @25169 has 39 MA's), (83, 25232), (96, 25253), (115, 25307), (183, 25442), (202, 25484), (Start: 235 @25529 has 1 MA's), (341, 25703), (348, 25712), (409, 25802), (433, 25844), (440, 25859), (539, 26045), (610, 26180), (616, 26192), (639, 26225), (731, 26354), (796, 26471), (969, 26744), (990, 26783), (1010, 26843), (1044, 26933), (1058, 26963), (1074, 27005), (1102, 27056),

Gene: Chocolat_90 Start: 58761, Stop: 60506, Start Num: 159
Candidate Starts for Chocolat_90:
(Start: 159 @58761 has 18 MA's), (168, 58782), (205, 58860), (215, 58884), (238, 58929), (251, 58953), (272, 58992), (370, 59151), (375, 59160), (406, 59202), (418, 59223), (441, 59256), (444, 59262), (445, 59265), (450, 59280), (459, 59295), (500, 59382), (508, 59394), (511, 59400), (529, 59436), (542, 59460), (551, 59472), (613, 59604), (652, 59688), (667, 59709), (672, 59721), (680, 59736), (682, 59739), (692, 59763), (714, 59787), (725, 59799), (747, 59856), (779, 59901), (818, 59967), (827, 59979), (835, 59988), (842, 60012), (845, 60015), (864, 60051), (866, 60057), (877, 60081), (928, 60162), (931, 60168), (942, 60186), (960, 60213), (964, 60219), (977, 60249), (978, 60255), (1006, 60315), (1021, 60366), (1024, 60372), (1038, 60411),

Gene: Cholula_29 Start: 22153, Stop: 23553, Start Num: 333
Candidate Starts for Cholula_29:
(Start: 333 @22153 has 73 MA's), (381, 22216), (448, 22321), (449, 22324), (484, 22408), (512, 22441), (540, 22492), (544, 22498), (582, 22579), (584, 22582), (588, 22588), (607, 22624), (616, 22642), (617, 22645), (640, 22699), (677, 22750), (730, 22831), (740, 22858), (758, 22888), (763, 22897), (778, 22924), (798, 22957), (804, 22972), (840, 23026), (849, 23047), (857, 23059), (863, 23071), (990, 23293), (994, 23302), (997, 23308), (1009, 23344), (1030, 23404), (1038, 23431), (1084, 23521),

Gene: Chomp_187 Start: 101000, Stop: 99138, Start Num: 119
Candidate Starts for Chomp_187:
(Start: 119 @101000 has 185 MA's), (Start: 145 @100940 has 1 MA's), (Start: 182 @100871 has 1 MA's), (420, 100499), (443, 100457), (449, 100439), (506, 100355), (518, 100331), (530, 100307), (532, 100304), (555, 100259), (579, 100208), (595, 100178), (601, 100166), (661, 100037), (713, 99944), (717, 99938), (746, 99875), (748, 99869), (811, 99773), (814, 99767), (879, 99656), (921, 99584), (948, 99551), (951, 99542), (1004, 99422), (1010, 99404), (1047, 99305), (1048, 99302), (1058, 99281), (1083, 99227), (1107, 99191),

Gene: Chridison_26 Start: 21746, Stop: 23140, Start Num: 333
Candidate Starts for Chridison_26:
(Start: 333 @21746 has 73 MA's), (381, 21803), (441, 21890), (448, 21908), (449, 21911), (484, 21995), (512, 22028), (540, 22079), (544, 22085), (571, 22145), (588, 22175), (607, 22211), (616, 22229), (640, 22286), (646, 22304), (651, 22310), (677, 22337), (730, 22418), (740, 22445), (753, 22469), (763, 22484), (778, 22511), (798, 22544), (804, 22559), (827, 22586), (908, 22727), (926, 22754), (934, 22766), (944, 22784), (967, 22826), (988, 22874), (990, 22880), (997, 22895), (998, 22898), (1009, 22931), (1030, 22991), (1038, 23018), (1067, 23075), (1084, 23108), (1094, 23132),

Gene: Christian_25 Start: 20576, Stop: 21970, Start Num: 333
Candidate Starts for Christian_25:
(Start: 333 @20576 has 73 MA's), (381, 20633), (448, 20738), (449, 20741), (484, 20825), (512, 20858), (544, 20915), (582, 20996), (584, 20999), (588, 21005), (607, 21041), (616, 21059), (617, 21062), (634, 21095), (640, 21116), (730, 21248), (740, 21275), (763, 21314), (773, 21335), (778, 21341), (798, 21374), (804, 21389), (814, 21398), (840, 21443), (858, 21479), (888, 21521), (926, 21584), (939, 21602), (988, 21704), (989, 21707), (997, 21725), (998, 21728), (1007, 21752), (1009, 21761), (1038, 21848), (1084, 21938), (1094, 21962),

Gene: Christoph_40 Start: 30815, Stop: 29427, Start Num: 360
Candidate Starts for Christoph_40:
(220, 31037), (Start: 360 @30815 has 155 MA's), (445, 30671), (448, 30665), (449, 30662), (503, 30548), (518, 30521), (551, 30461), (562, 30434), (563, 30431), (611, 30335), (634, 30293), (721, 30122), (732, 30101), (738, 30086), (769, 30026), (836, 29966), (887, 29870), (932, 29807), (966, 29753), (1000, 29669), (1002, 29663), (1007, 29651), (1045, 29555), (1068, 29501), (1070, 29498), (1081, 29474),

Gene: Chubster_90 Start: 58968, Stop: 60713, Start Num: 159
Candidate Starts for Chubster_90:
(Start: 159 @58968 has 18 MA's), (168, 58989), (205, 59067), (215, 59091), (238, 59136), (251, 59160), (272, 59199), (370, 59358), (375, 59367), (406, 59409), (418, 59430), (441, 59463), (444, 59469), (445, 59472), (450, 59487), (459, 59502), (500, 59589), (508, 59601), (511, 59607), (529, 59643), (542, 59667), (551, 59679), (613, 59811), (652, 59895), (667, 59916), (672, 59928), (680, 59943), (682, 59946), (692, 59970), (714, 59994), (718, 60000), (725, 60006), (747, 60063), (779, 60108), (818, 60174), (827, 60186), (835, 60195), (842, 60219), (845, 60222), (864, 60258), (866, 60264), (877, 60288), (928, 60369), (931, 60375), (942, 60393), (960, 60420), (964, 60426), (977, 60456), (978, 60462), (1006, 60522), (1021, 60573), (1024, 60579), (1038, 60618),

Gene: Cicada_35 Start: 23458, Stop: 24885, Start Num: 339
Candidate Starts for Cicada_35:
(Start: 339 @23458 has 21 MA's), (524, 23776), (542, 23815), (571, 23878), (599, 23923), (607, 23944), (651, 24043), (749, 24211), (778, 24259), (791, 24280), (804, 24307), (824, 24334), (840, 24364), (841, 24367), (842, 24370), (860, 24406), (914, 24484), (963, 24568), (973, 24586), (975, 24589), (1009, 24676), (1013, 24688), (1026, 24727), (1038, 24763), (1042, 24769), (1065, 24814), (1078, 24844),

Gene: Cidela_38 Start: 31675, Stop: 30263, Start Num: 360
Candidate Starts for Cidela_38:
(338, 31705), (Start: 358 @31678 has 23 MA's), (Start: 360 @31675 has 155 MA's), (380, 31651), (Start: 388 @31639 has 1 MA's), (411, 31606), (449, 31528), (503, 31414), (518, 31387), (551, 31327), (562, 31300), (563, 31297), (583, 31255), (611, 31201), (686, 31045), (717, 30994), (721, 30988), (732, 30967), (735, 30961), (738, 30952), (748, 30928), (786, 30865), (796, 30850), (836, 30790), (839, 30784), (862, 30736), (887, 30694), (932, 30631), (944, 30619), (989, 30523), (993, 30514), (999, 30499), (1000, 30493), (1048, 30370), (1061, 30340), (1081, 30298), (1098, 30271),

Gene: CindyLou_189 Start: 101743, Stop: 99881, Start Num: 119
Candidate Starts for CindyLou_189:
(Start: 119 @101743 has 185 MA's), (Start: 145 @101683 has 1 MA's), (Start: 182 @101614 has 1 MA's), (420, 101242), (443, 101200), (449, 101182), (506, 101098), (518, 101074), (530, 101050), (532, 101047), (555, 101002), (579, 100951), (595, 100921), (601, 100909), (661, 100780), (713, 100687), (717, 100681), (746, 100618), (748, 100612), (811, 100516), (814, 100510), (879, 100399), (921, 100327), (948, 100294), (951, 100285), (1004, 100165), (1010, 100147), (1047, 100048), (1048, 100045), (1058, 100024), (1083, 99970), (1107, 99934),

Gene: CinnamonToast_65 Start: 53852, Stop: 52284, Start Num: 194
Candidate Starts for CinnamonToast_65:
(102, 54071), (121, 54020), (154, 53942), (165, 53915), (181, 53885), (Start: 194 @53852 has 3 MA's), (201, 53843), (Start: 222 @53816 has 29 MA's), (321, 53648), (348, 53606), (Start: 360 @53588 has 155 MA's), (380, 53558), (Start: 388 @53546 has 1 MA's), (401, 53528), (435, 53480), (520, 53339), (565, 53252), (572, 53237), (578, 53225), (591, 53195), (617, 53144), (668, 53066), (679, 53042), (688, 53024), (695, 53006), (697, 53003), (726, 52994), (732, 52976), (780, 52889), (873, 52754), (883, 52739), (894, 52718), (957, 52661), (972, 52637), (974, 52634), (999, 52577), (1000, 52571),

(1004, 52559), (1020, 52508), (1030, 52484), (1047, 52445), (1052, 52433), (1054, 52430), (1097, 52337), (1107, 52322), (1119, 52301),

Gene: Clancy_40 Start: 30848, Stop: 29460, Start Num: 360
Candidate Starts for Clancy_40:
(Start: 49 @31499 has 8 MA's), (187, 31145), (220, 31070), (Start: 360 @30848 has 155 MA's), (445, 30704), (448, 30698), (449, 30695), (503, 30581), (518, 30554), (551, 30494), (562, 30467), (563, 30464), (611, 30368), (634, 30326), (721, 30155), (732, 30134), (738, 30119), (769, 30059), (836, 29999), (887, 29903), (932, 29840), (966, 29786), (1000, 29702), (1002, 29696), (1007, 29684), (1045, 29588), (1068, 29534), (1070, 29531), (1081, 29507),

Gene: Cleatunium_181 Start: 99952, Stop: 98090, Start Num: 119
Candidate Starts for Cleatunium_181:
(Start: 119 @99952 has 185 MA's), (Start: 145 @99892 has 1 MA's), (Start: 182 @99823 has 1 MA's), (420, 99451), (443, 99409), (449, 99391), (506, 99307), (518, 99283), (530, 99259), (532, 99256), (555, 99211), (579, 99160), (595, 99130), (601, 99118), (661, 98989), (713, 98896), (717, 98890), (746, 98827), (748, 98821), (811, 98725), (814, 98719), (879, 98608), (921, 98536), (948, 98503), (951, 98494), (1004, 98374), (1010, 98356), (1047, 98257), (1048, 98254), (1058, 98233), (1083, 98179), (1107, 98143),

Gene: Clock_40 Start: 31950, Stop: 30520, Start Num: 358
Candidate Starts for Clock_40:
(Start: 358 @31950 has 23 MA's), (380, 31917), (411, 31872), (448, 31797), (449, 31794), (509, 31662), (515, 31650), (562, 31557), (563, 31554), (717, 31248), (721, 31242), (732, 31221), (743, 31194), (748, 31182), (750, 31179), (763, 31161), (798, 31104), (836, 31047), (841, 31035), (862, 30993), (882, 30960), (887, 30951), (903, 30927), (932, 30888), (966, 30834), (989, 30780), (993, 30771), (999, 30756), (1000, 30750), (1048, 30627), (1058, 30609), (1067, 30585),

Gene: CoffeeBean_72 Start: 53090, Stop: 51054, Start Num: 36
Candidate Starts for CoffeeBean_72:
(12, 53258), (Start: 36 @53090 has 6 MA's), (56, 53024), (75, 52982), (115, 52877), (Start: 200 @52697 has 9 MA's), (Start: 243 @52640 has 5 MA's), (271, 52589), (281, 52574), (341, 52484), (348, 52472), (409, 52379), (454, 52307), (509, 52238), (543, 52166), (572, 52109), (668, 51929), (679, 51905), (710, 51842), (731, 51806), (778, 51719), (856, 51587), (888, 51548), (889, 51545), (907, 51500), (989, 51353), (1011, 51290), (1025, 51248), (1041, 51209), (1055, 51185),

Gene: ColaCorta_40 Start: 31099, Stop: 29687, Start Num: 360
Candidate Starts for ColaCorta_40:
(Start: 360 @31099 has 155 MA's), (384, 31069), (Start: 388 @31063 has 1 MA's), (411, 31030), (503, 30838), (518, 30811), (551, 30751), (562, 30724), (563, 30721), (583, 30679), (611, 30625), (634, 30583), (686, 30469), (721, 30412), (732, 30391), (738, 30376), (743, 30364), (748, 30352), (750, 30349), (763, 30331), (809, 30250), (836, 30214), (862, 30160), (887, 30118), (907, 30088), (923, 30064), (930, 30058), (958, 30016), (989, 29947), (999, 29923), (1000, 29917), (1002, 29911), (1007, 29899), (1045, 29803), (1048, 29794), (1058, 29776), (1061, 29764), (1083, 29719),

Gene: Colucci_93 Start: 59340, Stop: 61085, Start Num: 159
Candidate Starts for Colucci_93:
(101, 59187), (Start: 159 @59340 has 18 MA's), (168, 59361), (172, 59367), (205, 59439), (215, 59463), (238, 59508), (272, 59571), (370, 59730), (375, 59739), (406, 59781), (418, 59802), (444, 59841), (445, 59844), (450, 59859), (459, 59874), (500, 59961), (508, 59973), (511, 59979), (542, 60039), (551, 60051), (613, 60183), (627, 60207), (652, 60267), (667, 60288), (672, 60300), (680, 60315), (682, 60318), (692, 60342), (714, 60366), (725, 60378), (727, 60384), (738, 60414), (747, 60435), (779, 60480), (835, 60567), (842, 60591), (864, 60630), (866, 60636), (877, 60660), (928,

60741), (942, 60765), (964, 60798), (977, 60828), (978, 60834), (1006, 60894), (1021, 60945), (1024, 60951), (1038, 60990),

Gene: Commandaria_72 Start: 56463, Stop: 54385, Start Num: 35
Candidate Starts for Commandaria_72:
(Start: 35 @56463 has 37 MA's), (Start: 58 @56391 has 39 MA's), (100, 56277), (195, 56058), (Start: 200 @56049 has 9 MA's), (202, 56046), (271, 55941), (309, 55887), (348, 55824), (409, 55734), (450, 55671), (453, 55665), (538, 55533), (547, 55515), (668, 55260), (679, 55236), (731, 55134), (755, 55080), (767, 55065), (769, 55059), (814, 54984), (842, 54945), (889, 54876), (906, 54840), (907, 54837), (925, 54807), (949, 54765), (989, 54690), (1011, 54627), (1041, 54546), (1080, 54462), (1092, 54438),

Gene: Commonplace_74 Start: 46896, Stop: 45316, Start Num: 190
Candidate Starts for Commonplace_74:
(Start: 190 @46896 has 2 MA's), (212, 46845), (219, 46830), (271, 46737), (281, 46722), (316, 46692), (324, 46677), (347, 46653), (366, 46626), (405, 46581), (429, 46542), (437, 46527), (458, 46485), (480, 46431), (523, 46368), (569, 46278), (585, 46242), (622, 46185), (632, 46164), (670, 46080), (693, 46029), (756, 45936), (764, 45921), (780, 45897), (787, 45882), (789, 45879), (811, 45855), (814, 45849), (824, 45834), (884, 45750), (897, 45729), (899, 45726), (918, 45696), (920, 45693), (959, 45624), (966, 45612), (982, 45570), (986, 45564), (1001, 45525), (1011, 45501), (1040, 45420), (1060, 45378), (1061, 45375),

Gene: Conboy_88 Start: 58510, Stop: 60255, Start Num: 159
Candidate Starts for Conboy_88:
(Start: 159 @58510 has 18 MA's), (168, 58531), (205, 58609), (215, 58633), (238, 58678), (251, 58702), (272, 58741), (370, 58900), (375, 58909), (406, 58951), (418, 58972), (441, 59005), (444, 59011), (445, 59014), (450, 59029), (459, 59044), (500, 59131), (508, 59143), (511, 59149), (529, 59185), (542, 59209), (551, 59221), (613, 59353), (652, 59437), (667, 59458), (672, 59470), (680, 59485), (682, 59488), (692, 59512), (714, 59536), (725, 59548), (747, 59605), (779, 59650), (818, 59716), (827, 59728), (835, 59737), (842, 59761), (845, 59764), (864, 59800), (866, 59806), (877, 59830), (928, 59911), (931, 59917), (942, 59935), (960, 59962), (964, 59968), (977, 59998), (978, 60004), (1006, 60064), (1021, 60115), (1024, 60121), (1038, 60160),

Gene: Concombre_192 Start: 102852, Stop: 100990, Start Num: 119
Candidate Starts for Concombre_192:
(Start: 119 @102852 has 185 MA's), (Start: 145 @102792 has 1 MA's), (Start: 182 @102723 has 1 MA's), (420, 102351), (443, 102309), (449, 102291), (506, 102207), (518, 102183), (530, 102159), (532, 102156), (555, 102111), (579, 102060), (595, 102030), (601, 102018), (661, 101889), (713, 101796), (717, 101790), (746, 101727), (748, 101721), (811, 101625), (814, 101619), (879, 101508), (921, 101436), (948, 101403), (951, 101394), (1004, 101274), (1010, 101256), (1047, 101157), (1048, 101154), (1058, 101133), (1083, 101079), (1107, 101043),

Gene: Convict_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for Convict_41:
(Start: 49 @31769 has 8 MA's), (187, 31415), (220, 31340), (Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (449, 30965), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (611, 30638), (634, 30596), (721, 30425), (732, 30404), (743, 30377), (769, 30329), (836, 30269), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: CoolCookie_40 Start: 25941, Stop: 27848, Start Num: 58
Candidate Starts for CoolCookie_40:

(Start: 58 @25941 has 39 MA's), (83, 26004), (96, 26025), (115, 26079), (202, 26256), (Start: 235 @26301 has 1 MA's), (341, 26475), (348, 26484), (409, 26574), (440, 26631), (539, 26817), (610, 26952), (616, 26964), (639, 26997), (731, 27126), (796, 27243), (856, 27318), (987, 27552), (990, 27555), (1010, 27615), (1044, 27705), (1058, 27735), (1074, 27777), (1102, 27828),

Gene: CoraRita_40 Start: 30818, Stop: 29430, Start Num: 360
Candidate Starts for CoraRita_40:
(Start: 49 @31469 has 8 MA's), (187, 31115), (220, 31040), (Start: 360 @30818 has 155 MA's), (445, 30674), (448, 30668), (449, 30665), (503, 30551), (518, 30524), (551, 30464), (562, 30437), (563, 30434), (611, 30338), (634, 30296), (721, 30125), (732, 30104), (738, 30089), (769, 30029), (836, 29969), (887, 29873), (932, 29810), (966, 29756), (1000, 29672), (1002, 29666), (1007, 29654), (1045, 29558), (1068, 29504), (1070, 29501), (1081, 29477),

Gene: Crestdrop_40 Start: 25203, Stop: 27110, Start Num: 58
Candidate Starts for Crestdrop_40:
(17, 25029), (Start: 58 @25203 has 39 MA's), (83, 25266), (96, 25287), (115, 25341), (183, 25476), (202, 25518), (Start: 235 @25563 has 1 MA's), (341, 25737), (348, 25746), (409, 25836), (433, 25878), (440, 25893), (539, 26079), (610, 26214), (616, 26226), (639, 26259), (731, 26388), (796, 26505), (969, 26778), (990, 26817), (1010, 26877), (1044, 26967), (1058, 26997), (1074, 27039), (1102, 27090),

Gene: Crete_60 Start: 52291, Stop: 50882, Start Num: 294
Candidate Starts for Crete_60:
(102, 52669), (121, 52618), (142, 52567), (165, 52513), (181, 52483), (Start: 194 @52450 has 3 MA's), (201, 52441), (Start: 222 @52414 has 29 MA's), (Start: 294 @52291 has 29 MA's), (321, 52246), (348, 52204), (380, 52156), (382, 52153), (386, 52147), (Start: 388 @52144 has 1 MA's), (396, 52132), (401, 52126), (435, 52078), (436, 52075), (510, 51955), (520, 51937), (555, 51874), (565, 51850), (572, 51835), (591, 51793), (617, 51742), (639, 51715), (668, 51664), (695, 51604), (697, 51601), (726, 51592), (732, 51574), (750, 51532), (780, 51487), (791, 51469), (873, 51352), (883, 51337), (894, 51316), (972, 51235), (974, 51232), (999, 51175), (1000, 51169), (1004, 51157), (1020, 51106), (1026, 51091), (1030, 51082), (1047, 51043), (1052, 51031), (1097, 50935), (1107, 50920),

Gene: CristinaYang_25 Start: 20580, Stop: 21974, Start Num: 333
Candidate Starts for CristinaYang_25:
(Start: 333 @20580 has 73 MA's), (381, 20637), (448, 20742), (449, 20745), (484, 20829), (512, 20862), (540, 20913), (544, 20919), (582, 21000), (584, 21003), (588, 21009), (607, 21045), (616, 21063), (617, 21066), (634, 21099), (640, 21120), (730, 21252), (740, 21279), (763, 21318), (773, 21339), (778, 21345), (798, 21378), (804, 21393), (814, 21402), (840, 21447), (858, 21483), (888, 21525), (926, 21588), (939, 21606), (988, 21708), (989, 21711), (997, 21729), (998, 21732), (1007, 21756), (1009, 21765), (1038, 21852), (1084, 21942), (1094, 21966),

Gene: Crosby_42 Start: 31144, Stop: 32538, Start Num: 346
Candidate Starts for Crosby_42:
(Start: 346 @31144 has 14 MA's), (Start: 349 @31147 has 3 MA's), (400, 31222), (416, 31246), (421, 31252), (443, 31276), (448, 31291), (449, 31294), (481, 31366), (493, 31381), (525, 31417), (571, 31516), (613, 31594), (678, 31717), (749, 31852), (766, 31879), (778, 31900), (827, 31978), (842, 32011), (847, 32020), (870, 32062), (910, 32128), (914, 32131), (926, 32152), (939, 32170), (948, 32188), (975, 32242), (988, 32272), (1009, 32329), (1010, 32332), (1026, 32380), (1041, 32419), (1047, 32434), (1082, 32503), (1090, 32521), (1094, 32530),

Gene: Cruella_72 Start: 52724, Stop: 50799, Start Num: 65
Candidate Starts for Cruella_72:

(33, 52817), (Start: 65 @52724 has 8 MA's), (134, 52553), (155, 52499), (180, 52445), (271, 52295), (375, 52139), (409, 52088), (411, 52085), (508, 51956), (509, 51953), (543, 51881), (550, 51872), (731, 51515), (745, 51482), (856, 51296), (992, 51077), (997, 51065), (1002, 51047), (1011, 51020), (1031, 50957), (1050, 50924), (1081, 50852),

Gene: Cuke_73 Start: 42303, Stop: 44156, Start Num: 84
Candidate Starts for Cuke_73:
(Start: 84 @42303 has 3 MA's), (141, 42423), (186, 42516), (202, 42549), (259, 42642), (265, 42651), (271, 42660), (293, 42690), (296, 42693), (331, 42750), (354, 42786), (Start: 362 @42798 has 4 MA's), (380, 42825), (398, 42849), (423, 42888), (447, 42942), (459, 42972), (466, 42990), (472, 43002), (565, 43143), (630, 43269), (662, 43326), (668, 43338), (731, 43440), (745, 43473), (751, 43488), (768, 43512), (769, 43515), (784, 43539), (807, 43578), (950, 43773), (989, 43863), (992, 43869), (1002, 43899), (1036, 43998), (1062, 44058), (1071, 44076), (1076, 44088), (1101, 44133), (1106, 44139),

Gene: Cybele_40 Start: 25911, Stop: 27818, Start Num: 58
Candidate Starts for Cybele_40:
(Start: 58 @25911 has 39 MA's), (83, 25974), (96, 25995), (115, 26049), (202, 26226), (Start: 235 @26271 has 1 MA's), (341, 26445), (348, 26454), (409, 26544), (539, 26787), (610, 26922), (616, 26934), (639, 26967), (731, 27096), (796, 27213), (856, 27288), (987, 27522), (990, 27525), (1010, 27585), (1044, 27675), (1058, 27705), (1074, 27747), (1102, 27798),

Gene: DTDevon_190 Start: 102235, Stop: 100373, Start Num: 119
Candidate Starts for DTDevon_190:
(Start: 119 @102235 has 185 MA's), (Start: 145 @102175 has 1 MA's), (Start: 182 @102106 has 1 MA's), (420, 101734), (443, 101692), (449, 101674), (506, 101590), (518, 101566), (530, 101542), (532, 101539), (555, 101494), (579, 101443), (595, 101413), (601, 101401), (661, 101272), (713, 101179), (717, 101173), (746, 101110), (748, 101104), (811, 101008), (814, 101002), (879, 100891), (921, 100819), (948, 100786), (951, 100777), (1004, 100657), (1010, 100639), (1047, 100540), (1048, 100537), (1058, 100516), (1083, 100462), (1107, 100426),

Gene: Daffodil_192 Start: 101022, Stop: 99160, Start Num: 119
Candidate Starts for Daffodil_192:
(Start: 119 @101022 has 185 MA's), (Start: 145 @100962 has 1 MA's), (Start: 182 @100893 has 1 MA's), (420, 100521), (443, 100479), (449, 100461), (506, 100377), (518, 100353), (530, 100329), (532, 100326), (555, 100281), (579, 100230), (595, 100200), (601, 100188), (661, 100059), (713, 99966), (717, 99960), (746, 99897), (748, 99891), (811, 99795), (814, 99789), (879, 99678), (921, 99606), (948, 99573), (951, 99564), (1004, 99444), (1010, 99426), (1047, 99327), (1048, 99324), (1058, 99303), (1083, 99249), (1107, 99213),

Gene: Daiboju_26 Start: 21732, Stop: 23129, Start Num: 333
Candidate Starts for Daiboju_26:
(Start: 333 @21732 has 73 MA's), (381, 21792), (441, 21879), (448, 21897), (449, 21900), (484, 21984), (486, 21990), (512, 22017), (540, 22068), (544, 22074), (566, 22125), (571, 22134), (582, 22155), (588, 22164), (607, 22200), (617, 22221), (634, 22254), (640, 22275), (646, 22293), (651, 22299), (677, 22326), (686, 22338), (692, 22353), (730, 22407), (753, 22458), (758, 22464), (763, 22473), (766, 22479), (778, 22500), (798, 22533), (804, 22548), (814, 22557), (888, 22680), (910, 22719), (926, 22743), (934, 22755), (988, 22863), (990, 22869), (994, 22878), (997, 22884), (1009, 22920), (1038, 23007), (1084, 23097), (1094, 23121),

Gene: Dakiti_60 Start: 53037, Stop: 51628, Start Num: 294
Candidate Starts for Dakiti_60:

(102, 53415), (121, 53364), (142, 53313), (165, 53259), (181, 53229), (Start: 194 @53196 has 3 MA's), (201, 53187), (Start: 222 @53160 has 29 MA's), (Start: 294 @53037 has 29 MA's), (321, 52992), (348, 52950), (380, 52902), (382, 52899), (386, 52893), (Start: 388 @52890 has 1 MA's), (396, 52878), (401, 52872), (435, 52824), (436, 52821), (510, 52701), (520, 52683), (555, 52620), (565, 52596), (572, 52581), (591, 52539), (617, 52488), (639, 52461), (668, 52410), (695, 52350), (697, 52347), (726, 52338), (732, 52320), (750, 52278), (780, 52233), (781, 52230), (873, 52098), (883, 52083), (894, 52062), (972, 51981), (974, 51978), (999, 51921), (1000, 51915), (1004, 51903), (1020, 51852), (1026, 51837), (1030, 51828), (1047, 51789), (1052, 51777), (1097, 51681), (1107, 51666),

Gene: Dalilpop_75 Start: 57466, Stop: 55409, Start Num: 35
Candidate Starts for Dalilpop_75:
(Start: 35 @57466 has 37 MA's), (271, 56953), (309, 56899), (345, 56839), (348, 56836), (409, 56746), (421, 56728), (450, 56683), (453, 56677), (468, 56638), (520, 56584), (547, 56527), (618, 56380), (637, 56347), (649, 56317), (653, 56311), (668, 56284), (669, 56281), (731, 56161), (767, 56092), (778, 56074), (842, 55969), (847, 55960), (889, 55900), (907, 55861), (925, 55831), (957, 55774), (989, 55714), (1000, 55684), (1011, 55651), (1025, 55609), (1096, 55453),

Gene: Damien_61 Start: 46053, Stop: 48110, Start Num: 45
Candidate Starts for Damien_61:
(Start: 45 @46053 has 11 MA's), (72, 46113), (73, 46116), (106, 46209), (111, 46221), (120, 46242), (Start: 182 @46365 has 1 MA's), (183, 46368), (187, 46377), (202, 46410), (206, 46431), (229, 46479), (255, 46521), (296, 46584), (309, 46605), (314, 46611), (348, 46665), (462, 46851), (466, 46863), (474, 46881), (506, 46896), (509, 46902), (668, 47220), (669, 47223), (689, 47268), (727, 47319), (731, 47331), (778, 47421), (784, 47433), (802, 47466), (819, 47490), (826, 47499), (907, 47589), (926, 47622), (985, 47733), (989, 47736), (990, 47739), (992, 47742), (1004, 47778), (1010, 47796), (1031, 47862), (1041, 47880), (1126, 48057),

Gene: Damp_57 Start: 51773, Stop: 50361, Start Num: 294
Candidate Starts for Damp_57:
(102, 52121), (154, 51992), (192, 51905), (Start: 194 @51902 has 3 MA's), (Start: 294 @51773 has 29 MA's), (321, 51728), (380, 51638), (382, 51635), (386, 51629), (401, 51608), (444, 51545), (510, 51437), (520, 51419), (565, 51332), (572, 51317), (591, 51275), (640, 51194), (668, 51146), (688, 51104), (695, 51086), (697, 51083), (732, 51056), (755, 51005), (780, 50969), (810, 50918), (873, 50834), (886, 50813), (999, 50657), (1000, 50651), (1004, 50639), (1052, 50513), (1107, 50399),

Gene: Dandelion_195 Start: 104557, Stop: 102695, Start Num: 119
Candidate Starts for Dandelion_195:
(Start: 119 @104557 has 185 MA's), (Start: 145 @104497 has 1 MA's), (Start: 182 @104428 has 1 MA's), (420, 104056), (443, 104014), (449, 103996), (506, 103912), (518, 103888), (530, 103864), (532, 103861), (555, 103816), (579, 103765), (595, 103735), (601, 103723), (661, 103594), (713, 103501), (717, 103495), (746, 103432), (748, 103426), (811, 103330), (814, 103324), (879, 103213), (921, 103141), (948, 103108), (951, 103099), (1004, 102979), (1010, 102961), (1047, 102862), (1048, 102859), (1058, 102838), (1083, 102784), (1107, 102748),

Gene: DannyDe_40 Start: 25175, Stop: 27082, Start Num: 58
Candidate Starts for DannyDe_40:
(17, 25001), (Start: 58 @25175 has 39 MA's), (83, 25238), (115, 25313), (183, 25448), (202, 25490), (Start: 235 @25535 has 1 MA's), (341, 25709), (348, 25718), (409, 25808), (433, 25850), (440, 25865), (539, 26051), (610, 26186), (616, 26198), (639, 26231), (731, 26360), (796, 26477), (969, 26750), (990, 26789), (1010, 26849), (1044, 26939), (1058, 26969), (1074, 27011), (1102, 27062),

Gene: Darko_187 Start: 100436, Stop: 98574, Start Num: 119
Candidate Starts for Darko_187:

(Start: 119 @100436 has 185 MA's), (Start: 145 @100376 has 1 MA's), (Start: 182 @100307 has 1 MA's), (420, 99935), (443, 99893), (449, 99875), (506, 99791), (518, 99767), (530, 99743), (532, 99740), (555, 99695), (579, 99644), (595, 99614), (601, 99602), (661, 99473), (713, 99380), (717, 99374), (746, 99311), (748, 99305), (811, 99209), (814, 99203), (879, 99092), (921, 99020), (948, 98987), (951, 98978), (1004, 98858), (1010, 98840), (1047, 98741), (1048, 98738), (1058, 98717), (1083, 98663), (1107, 98627),

Gene: Darwin_73 Start: 51965, Stop: 50040, Start Num: 65
Candidate Starts for Darwin_73:
(33, 52058), (Start: 65 @51965 has 8 MA's), (134, 51794), (155, 51740), (271, 51536), (375, 51380), (409, 51329), (411, 51326), (442, 51284), (508, 51197), (509, 51194), (543, 51122), (550, 51113), (731, 50756), (745, 50723), (780, 50666), (957, 50384), (992, 50318), (997, 50306), (1002, 50288), (1004, 50282), (1011, 50261), (1031, 50198), (1050, 50165), (1066, 50126),

Gene: Dauntless_39 Start: 25497, Stop: 27404, Start Num: 58
Candidate Starts for Dauntless_39:
(17, 25323), (Start: 58 @25497 has 39 MA's), (83, 25560), (96, 25581), (115, 25635), (183, 25770), (193, 25797), (202, 25812), (Start: 235 @25857 has 1 MA's), (341, 26031), (348, 26040), (409, 26130), (433, 26172), (440, 26187), (539, 26373), (610, 26508), (616, 26520), (639, 26553), (731, 26682), (778, 26769), (796, 26799), (969, 27072), (990, 27111), (1010, 27171), (1044, 27261), (1058, 27291), (1074, 27333), (1102, 27384),

Gene: Dave_41 Start: 31109, Stop: 29721, Start Num: 360
Candidate Starts for Dave_41:
(220, 31331), (Start: 360 @31109 has 155 MA's), (445, 30965), (448, 30959), (449, 30956), (503, 30842), (518, 30815), (551, 30755), (562, 30728), (563, 30725), (611, 30629), (634, 30587), (721, 30416), (732, 30395), (738, 30380), (743, 30368), (769, 30320), (836, 30260), (887, 30164), (932, 30101), (966, 30047), (1000, 29963), (1002, 29957), (1007, 29945), (1033, 29870), (1045, 29849), (1068, 29795), (1070, 29792), (1081, 29768),

Gene: DaviePasture_60 Start: 40751, Stop: 42664, Start Num: 51
Candidate Starts for DaviePasture_60:
(Start: 45 @40736 has 11 MA's), (Start: 50 @40748 has 13 MA's), (Start: 51 @40751 has 50 MA's), (Start: 58 @40763 has 39 MA's), (75, 40811), (115, 40913), (158, 41003), (173, 41030), (178, 41039), (Start: 222 @41111 has 29 MA's), (271, 41198), (296, 41231), (335, 41294), (348, 41312), (399, 41384), (418, 41411), (506, 41540), (518, 41564), (538, 41606), (562, 41654), (572, 41675), (581, 41696), (610, 41753), (618, 41771), (638, 41807), (662, 41849), (689, 41909), (745, 42005), (746, 42008), (918, 42236), (969, 42326), (989, 42362), (992, 42368), (1010, 42422), (1022, 42461), (1066, 42563), (1072, 42578), (1083, 42599),

Gene: DeejaClivia_176 Start: 99384, Stop: 97522, Start Num: 119
Candidate Starts for DeejaClivia_176:
(Start: 119 @99384 has 185 MA's), (Start: 145 @99324 has 1 MA's), (Start: 182 @99255 has 1 MA's), (420, 98883), (443, 98841), (449, 98823), (506, 98739), (518, 98715), (530, 98691), (532, 98688), (555, 98643), (579, 98592), (595, 98562), (601, 98550), (661, 98421), (713, 98328), (717, 98322), (746, 98259), (748, 98253), (811, 98157), (814, 98151), (833, 98127), (879, 98040), (921, 97968), (948, 97935), (951, 97926), (1004, 97806), (1010, 97788), (1047, 97689), (1048, 97686), (1058, 97665), (1083, 97611), (1107, 97575),

Gene: DejaVu_80 Start: 49301, Stop: 47778, Start Num: 250
Candidate Starts for DejaVu_80:
(130, 49562), (146, 49520), (Start: 250 @49301 has 29 MA's), (336, 49190), (363, 49151), (375, 49142), (435, 49046), (451, 49004), (459, 48986), (482, 48932), (515, 48887), (517, 48884), (568,

48782), (626, 48659), (640, 48623), (660, 48584), (690, 48518), (713, 48491), (726, 48473), (737, 48443), (766, 48383), (784, 48353), (792, 48341), (795, 48335), (986, 48026), (995, 48008), (1010, 47966), (1012, 47960), (1017, 47942), (1018, 47939), (1072, 47813),

Gene: Delilah_186 Start: 101140, Stop: 99278, Start Num: 119
Candidate Starts for Delilah_186:
(Start: 119 @101140 has 185 MA's), (Start: 145 @101080 has 1 MA's), (Start: 182 @101011 has 1 MA's), (420, 100639), (443, 100597), (449, 100579), (506, 100495), (518, 100471), (530, 100447), (532, 100444), (555, 100399), (579, 100348), (595, 100318), (601, 100306), (661, 100177), (713, 100084), (717, 100078), (746, 100015), (748, 100009), (811, 99913), (814, 99907), (879, 99796), (921, 99724), (948, 99691), (951, 99682), (1004, 99562), (1010, 99544), (1047, 99445), (1048, 99442), (1058, 99421), (1083, 99367), (1107, 99331),

Gene: Delphidian_41 Start: 31117, Stop: 29729, Start Num: 360
Candidate Starts for Delphidian_41:
(220, 31339), (Start: 360 @31117 has 155 MA's), (445, 30973), (448, 30967), (449, 30964), (503, 30850), (518, 30823), (551, 30763), (562, 30736), (563, 30733), (567, 30727), (611, 30637), (634, 30595), (721, 30424), (738, 30388), (743, 30376), (763, 30343), (769, 30328), (836, 30268), (887, 30172), (932, 30109), (966, 30055), (1000, 29971), (1002, 29965), (1007, 29953), (1045, 29857), (1068, 29803), (1070, 29800), (1081, 29776),

Gene: Delton_54 Start: 40127, Stop: 42070, Start Num: 51
Candidate Starts for Delton_54:
(30, 40058), (Start: 51 @40127 has 50 MA's), (66, 40154), (71, 40178), (88, 40226), (107, 40280), (140, 40340), (150, 40367), (177, 40418), (178, 40421), (195, 40460), (Start: 222 @40496 has 29 MA's), (271, 40583), (331, 40676), (341, 40691), (354, 40712), (433, 40814), (447, 40847), (458, 40871), (509, 40931), (554, 41018), (587, 41093), (639, 41183), (668, 41234), (669, 41237), (720, 41327), (731, 41345), (745, 41378), (778, 41432), (784, 41444), (796, 41462), (842, 41525), (903, 41609), (969, 41726), (989, 41774), (1011, 41837), (1041, 41921),

Gene: Delylah_189 Start: 101120, Stop: 99258, Start Num: 119
Candidate Starts for Delylah_189:
(Start: 119 @101120 has 185 MA's), (Start: 145 @101060 has 1 MA's), (Start: 182 @100991 has 1 MA's), (420, 100619), (443, 100577), (449, 100559), (506, 100475), (518, 100451), (530, 100427), (532, 100424), (555, 100379), (579, 100328), (595, 100298), (601, 100286), (661, 100157), (713, 100064), (717, 100058), (746, 99995), (748, 99989), (811, 99893), (814, 99887), (879, 99776), (921, 99704), (948, 99671), (951, 99662), (1004, 99542), (1010, 99524), (1047, 99425), (1048, 99422), (1058, 99401), (1083, 99347), (1107, 99311),

Gene: Demikore_78 Start: 49350, Stop: 51383, Start Num: 47
Candidate Starts for Demikore_78:
(Start: 47 @49350 has 4 MA's), (63, 49374), (82, 49437), (108, 49503), (138, 49554), (139, 49557), (187, 49665), (202, 49698), (229, 49737), (246, 49761), (281, 49824), (296, 49842), (300, 49845), (309, 49863), (314, 49869), (Start: 358 @49938 has 23 MA's), (376, 49965), (384, 49977), (410, 50010), (462, 50112), (543, 50235), (561, 50265), (610, 50370), (618, 50388), (666, 50478), (668, 50481), (705, 50583), (716, 50622), (727, 50649), (731, 50661), (751, 50709), (763, 50727), (778, 50754), (784, 50766), (791, 50775), (907, 50913), (933, 50958), (985, 51063), (1031, 51192), (1050, 51225), (1058, 51243), (1081, 51297), (1102, 51336),

Gene: Demodog_193 Start: 102861, Stop: 100999, Start Num: 119
Candidate Starts for Demodog_193:
(Start: 119 @102861 has 185 MA's), (Start: 145 @102801 has 1 MA's), (Start: 182 @102732 has 1 MA's), (420, 102360), (443, 102318), (449, 102300), (506, 102216), (518, 102192), (530, 102168),

(532, 102165), (555, 102120), (579, 102069), (595, 102039), (601, 102027), (661, 101898), (713, 101805), (717, 101799), (746, 101736), (748, 101730), (811, 101634), (814, 101628), (879, 101517), (921, 101445), (948, 101412), (951, 101403), (1004, 101283), (1010, 101265), (1047, 101166), (1048, 101163), (1058, 101142), (1083, 101088), (1107, 101052),

Gene: Demosthenes_55 Start: 52768, Stop: 51074, Start Num: 131
Candidate Starts for Demosthenes_55:
(Start: 126 @52780 has 9 MA's), (Start: 131 @52768 has 2 MA's), (174, 52669), (Start: 185 @52648 has 1 MA's), (227, 52582), (301, 52483), (321, 52447), (336, 52423), (343, 52414), (348, 52405), (380, 52357), (396, 52333), (Start: 430 @52291 has 1 MA's), (436, 52276), (444, 52261), (468, 52204), (469, 52201), (517, 52141), (518, 52138), (555, 52072), (558, 52069), (572, 52033), (574, 52030), (581, 52012), (586, 52003), (591, 51991), (616, 51943), (640, 51910), (655, 51886), (668, 51862), (679, 51838), (732, 51772), (780, 51673), (871, 51541), (873, 51538), (938, 51472), (972, 51421), (974, 51418), (999, 51361), (1004, 51343), (1047, 51226), (1048, 51223), (1054, 51211), (1107, 51112), (1119, 51091),

Gene: Den3_41 Start: 31123, Stop: 29735, Start Num: 360
Candidate Starts for Den3_41:
(Start: 49 @31774 has 8 MA's), (187, 31420), (220, 31345), (Start: 360 @31123 has 155 MA's), (445, 30979), (448, 30973), (449, 30970), (503, 30856), (518, 30829), (551, 30769), (562, 30742), (563, 30739), (611, 30643), (634, 30601), (721, 30430), (732, 30409), (743, 30382), (769, 30334), (836, 30274), (932, 30115), (966, 30061), (1000, 29977), (1002, 29971), (1007, 29959), (1045, 29863), (1068, 29809), (1070, 29806), (1081, 29782),

Gene: Derek_185 Start: 100763, Stop: 98901, Start Num: 119
Candidate Starts for Derek_185:
(Start: 119 @100763 has 185 MA's), (Start: 145 @100703 has 1 MA's), (Start: 182 @100634 has 1 MA's), (420, 100262), (443, 100220), (449, 100202), (506, 100118), (518, 100094), (530, 100070), (532, 100067), (555, 100022), (579, 99971), (595, 99941), (601, 99929), (661, 99800), (713, 99707), (717, 99701), (746, 99638), (748, 99632), (811, 99536), (814, 99530), (879, 99419), (921, 99347), (948, 99314), (951, 99305), (1004, 99185), (1010, 99167), (1047, 99068), (1048, 99065), (1058, 99044), (1083, 98990), (1107, 98954),

Gene: Deschain_85 Start: 50231, Stop: 48711, Start Num: 250
Candidate Starts for Deschain_85:
(230, 50264), (Start: 250 @50231 has 29 MA's), (281, 50180), (375, 50072), (419, 50006), (449, 49940), (515, 49817), (523, 49802), (552, 49745), (566, 49712), (568, 49709), (598, 49646), (622, 49595), (626, 49586), (631, 49577), (652, 49523), (673, 49484), (681, 49469), (726, 49400), (737, 49370), (767, 49307), (814, 49235), (938, 49049), (995, 48941), (1005, 48911), (1020, 48866), (1040, 48815), (1070, 48752),

Gene: Dessert_187 Start: 99277, Stop: 97415, Start Num: 119
Candidate Starts for Dessert_187:
(Start: 119 @99277 has 185 MA's), (Start: 145 @99217 has 1 MA's), (Start: 182 @99148 has 1 MA's), (420, 98776), (443, 98734), (449, 98716), (506, 98632), (518, 98608), (530, 98584), (532, 98581), (555, 98536), (579, 98485), (595, 98455), (601, 98443), (661, 98314), (713, 98221), (717, 98215), (746, 98152), (748, 98146), (811, 98050), (814, 98044), (879, 97933), (921, 97861), (948, 97828), (951, 97819), (1004, 97699), (1010, 97681), (1047, 97582), (1048, 97579), (1058, 97558), (1083, 97504), (1107, 97468),

Gene: Diabla_63 Start: 53692, Stop: 52283, Start Num: 294
Candidate Starts for Diabla_63:

(102, 54070), (121, 54019), (165, 53914), (181, 53884), (Start: 194 @53851 has 3 MA's), (201, 53842), (Start: 222 @53815 has 29 MA's), (Start: 294 @53692 has 29 MA's), (321, 53647), (348, 53605), (380, 53557), (382, 53554), (386, 53548), (Start: 388 @53545 has 1 MA's), (401, 53527), (412, 53506), (435, 53479), (510, 53356), (520, 53338), (565, 53251), (572, 53236), (617, 53143), (668, 53065), (679, 53041), (695, 53005), (697, 53002), (732, 52975), (750, 52933), (780, 52888), (791, 52870), (842, 52804), (873, 52753), (883, 52738), (894, 52717), (957, 52660), (974, 52633), (999, 52576), (1000, 52570), (1004, 52558), (1020, 52507), (1030, 52483), (1047, 52444), (1052, 52432), (1054, 52429), (1097, 52336), (1107, 52321), (1119, 52300),

Gene: Dietrick_178 Start: 99745, Stop: 97883, Start Num: 119
Candidate Starts for Dietrick_178:
(Start: 119 @99745 has 185 MA's), (Start: 145 @99685 has 1 MA's), (Start: 182 @99616 has 1 MA's), (420, 99244), (443, 99202), (449, 99184), (506, 99100), (518, 99076), (530, 99052), (532, 99049), (555, 99004), (579, 98953), (595, 98923), (601, 98911), (661, 98782), (713, 98689), (717, 98683), (746, 98620), (748, 98614), (811, 98518), (814, 98512), (879, 98401), (921, 98329), (948, 98296), (951, 98287), (1004, 98167), (1010, 98149), (1047, 98050), (1048, 98047), (1058, 98026), (1083, 97972), (1107, 97936),

Gene: Dina_47 Start: 36338, Stop: 37714, Start Num: 342
Candidate Starts for Dina_47:
(Start: 342 @36338 has 7 MA's), (391, 36407), (406, 36425), (450, 36518), (476, 36578), (478, 36584), (479, 36587), (539, 36707), (551, 36725), (607, 36842), (678, 36980), (695, 37019), (725, 37052), (727, 37058), (732, 37073), (748, 37112), (788, 37172), (801, 37196), (835, 37232), (872, 37301), (876, 37307), (939, 37388), (993, 37484), (998, 37496), (1003, 37508), (1021, 37565), (1024, 37571), (1029, 37583), (1039, 37613), (1064, 37664),

Gene: DirtMonster_181 Start: 100505, Stop: 98643, Start Num: 119
Candidate Starts for DirtMonster_181:
(Start: 119 @100505 has 185 MA's), (Start: 145 @100445 has 1 MA's), (Start: 182 @100376 has 1 MA's), (420, 100004), (443, 99962), (449, 99944), (506, 99860), (518, 99836), (530, 99812), (532, 99809), (555, 99764), (579, 99713), (595, 99683), (601, 99671), (661, 99542), (713, 99449), (717, 99443), (746, 99380), (748, 99374), (811, 99278), (814, 99272), (879, 99161), (921, 99089), (948, 99056), (951, 99047), (1004, 98927), (1010, 98909), (1047, 98810), (1048, 98807), (1058, 98786), (1083, 98732), (1107, 98696),

Gene: Djokovic_50 Start: 36614, Stop: 38668, Start Num: 53
Candidate Starts for Djokovic_50:
(Start: 53 @36614 has 9 MA's), (67, 36638), (90, 36701), (123, 36785), (Start: 144 @36827 has 3 MA's), (268, 37049), (296, 37085), (345, 37160), (373, 37199), (411, 37241), (423, 37259), (433, 37280), (439, 37292), (466, 37352), (473, 37367), (506, 37385), (543, 37463), (554, 37478), (555, 37481), (572, 37520), (581, 37541), (637, 37643), (668, 37700), (677, 37721), (679, 37724), (686, 37736), (702, 37784), (703, 37790), (708, 37838), (716, 37871), (723, 37895), (728, 37913), (739, 37943), (801, 38066), (819, 38099), (829, 38111), (842, 38126), (871, 38165), (903, 38210), (918, 38237), (967, 38321), (997, 38384), (1010, 38426), (1013, 38435), (1015, 38444), (1031, 38492), (1036, 38501), (1041, 38513), (1050, 38528), (1067, 38570),

Gene: DocB7_048 Start: 43676, Stop: 42174, Start Num: 248
Candidate Starts for DocB7_048:
(Start: 248 @43676 has 4 MA's), (306, 43580), (321, 43553), (343, 43520), (Start: 358 @43496 has 23 MA's), (380, 43466), (434, 43391), (472, 43310), (477, 43295), (555, 43184), (563, 43163), (581, 43124), (663, 42986), (668, 42974), (669, 42971), (679, 42950), (737, 42872), (780, 42812), (871, 42677), (873, 42674), (905, 42623), (919, 42602), (945, 42575), (981, 42509), (994, 42482), (998, 42473), (1004, 42452), (1015, 42416), (1030, 42377), (1058, 42311), (1105, 42215),

Gene: Dodo_116 Start: 79498, Stop: 77648, Start Num: 64
Candidate Starts for Dodo_116:
(40, 79567), (41, 79561), (Start: 64 @79498 has 19 MA's), (76, 79453), (Start: 80 @79441 has 2 MA's), (139, 79315), (164, 79252), (224, 79177), (288, 79069), (300, 79051), (341, 78982), (Start: 358 @78955 has 23 MA's), (444, 78895), (518, 78730), (587, 78586), (636, 78499), (647, 78472), (668, 78436), (671, 78427), (729, 78370), (731, 78364), (750, 78319), (757, 78307), (770, 78286), (786, 78262), (807, 78226), (852, 78181), (907, 78097), (909, 78094), (913, 78088), (949, 78025), (1000, 77923), (1030, 77836), (1048, 77794), (1068, 77743),

Gene: Domi_182 Start: 100787, Stop: 98925, Start Num: 119
Candidate Starts for Domi_182:
(Start: 119 @100787 has 185 MA's), (Start: 145 @100727 has 1 MA's), (Start: 182 @100658 has 1 MA's), (420, 100286), (443, 100244), (449, 100226), (506, 100142), (518, 100118), (530, 100094), (532, 100091), (555, 100046), (579, 99995), (595, 99965), (601, 99953), (661, 99824), (713, 99731), (717, 99725), (746, 99662), (748, 99656), (811, 99560), (814, 99554), (879, 99443), (921, 99371), (948, 99338), (951, 99329), (1004, 99209), (1010, 99191), (1047, 99092), (1048, 99089), (1058, 99068), (1083, 99014), (1107, 98978),

Gene: DoobyDoo_59 Start: 39773, Stop: 41686, Start Num: 51
Candidate Starts for DoobyDoo_59:
(Start: 50 @39770 has 13 MA's), (Start: 51 @39773 has 50 MA's), (Start: 58 @39785 has 39 MA's), (75, 39833), (87, 39866), (115, 39935), (158, 40025), (173, 40052), (178, 40061), (Start: 222 @40133 has 29 MA's), (271, 40220), (296, 40253), (335, 40316), (399, 40406), (506, 40562), (518, 40586), (538, 40628), (562, 40676), (572, 40697), (581, 40718), (610, 40775), (638, 40829), (662, 40871), (689, 40931), (745, 41027), (746, 41030), (881, 41207), (918, 41258), (969, 41348), (989, 41384), (992, 41390), (1004, 41426), (1010, 41444), (1022, 41483), (1066, 41585), (1072, 41600), (1083, 41621),

Gene: Dothraki_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Dothraki_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (684, 30481), (721, 30421), (738, 30385), (743, 30373), (763, 30340), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: DrLupo_67 Start: 46291, Stop: 48255, Start Num: 43
Candidate Starts for DrLupo_67:
(15, 46123), (22, 46198), (23, 46204), (Start: 43 @46291 has 1 MA's), (Start: 51 @46312 has 50 MA's), (54, 46318), (Start: 59 @46324 has 5 MA's), (72, 46357), (81, 46390), (102, 46438), (108, 46459), (120, 46486), (138, 46510), (163, 46573), (172, 46591), (Start: 182 @46609 has 1 MA's), (187, 46621), (202, 46654), (229, 46696), (Start: 243 @46717 has 5 MA's), (246, 46720), (255, 46738), (274, 46771), (278, 46777), (296, 46801), (300, 46804), (344, 46876), (474, 47095), (506, 47110), (543, 47188), (581, 47266), (618, 47341), (636, 47374), (720, 47536), (727, 47542), (784, 47668), (786, 47671), (826, 47707), (832, 47713), (907, 47797), (926, 47830), (985, 47941), (989, 47944), (993, 47953), (1004, 47986), (1011, 48007), (1025, 48049), (1055, 48112), (1065, 48139), (1108, 48223),

Gene: DrPhinkDaddy_185 Start: 101801, Stop: 99939, Start Num: 119
Candidate Starts for DrPhinkDaddy_185:
(Start: 119 @101801 has 185 MA's), (Start: 145 @101741 has 1 MA's), (Start: 182 @101672 has 1 MA's), (241, 101543), (420, 101300), (443, 101258), (449, 101240), (506, 101156), (518, 101132), (530, 101108), (532, 101105), (555, 101060), (579, 101009), (595, 100979), (601, 100967), (661,

100838), (713, 100745), (717, 100739), (746, 100676), (748, 100670), (811, 100574), (814, 100568), (879, 100457), (921, 100385), (948, 100352), (951, 100343), (1004, 100223), (1010, 100205), (1047, 100106), (1048, 100103), (1058, 100082), (1083, 100028), (1107, 99992),

Gene: DrRobert_25 Start: 20576, Stop: 21970, Start Num: 333
Candidate Starts for DrRobert_25:
(Start: 333 @20576 has 73 MA's), (381, 20633), (448, 20738), (449, 20741), (484, 20825), (512, 20858), (540, 20909), (544, 20915), (582, 20996), (584, 20999), (588, 21005), (607, 21041), (616, 21059), (617, 21062), (634, 21095), (640, 21116), (730, 21248), (740, 21275), (763, 21314), (773, 21335), (778, 21341), (798, 21374), (804, 21389), (814, 21398), (840, 21443), (858, 21479), (888, 21521), (926, 21584), (939, 21602), (988, 21704), (989, 21707), (997, 21725), (998, 21728), (1007, 21752), (1009, 21761), (1038, 21848), (1084, 21938), (1094, 21962),

Gene: DrYang_86 Start: 58563, Stop: 60308, Start Num: 159
Candidate Starts for DrYang_86:
(101, 58410), (Start: 159 @58563 has 18 MA's), (168, 58584), (198, 58647), (205, 58662), (213, 58680), (230, 58716), (238, 58731), (241, 58737), (249, 58749), (251, 58755), (272, 58794), (322, 58881), (370, 58953), (375, 58962), (387, 58980), (418, 59025), (441, 59058), (444, 59064), (445, 59067), (474, 59133), (500, 59184), (508, 59196), (511, 59202), (542, 59262), (551, 59274), (672, 59523), (682, 59541), (718, 59595), (725, 59601), (727, 59607), (747, 59658), (779, 59703), (818, 59769), (827, 59781), (835, 59790), (841, 59811), (855, 59838), (867, 59862), (876, 59880), (923, 59955), (928, 59964), (931, 59970), (942, 59988), (960, 60015), (964, 60021), (977, 60051), (978, 60057), (1006, 60117), (1009, 60129), (1024, 60174), (1038, 60213),

Gene: Drazdys_186 Start: 100778, Stop: 98916, Start Num: 119
Candidate Starts for Drazdys_186:
(Start: 119 @100778 has 185 MA's), (Start: 145 @100718 has 1 MA's), (Start: 182 @100649 has 1 MA's), (420, 100277), (443, 100235), (449, 100217), (506, 100133), (518, 100109), (530, 100085), (532, 100082), (555, 100037), (579, 99986), (595, 99956), (601, 99944), (661, 99815), (713, 99722), (717, 99716), (746, 99653), (748, 99647), (811, 99551), (814, 99545), (879, 99434), (921, 99362), (948, 99329), (951, 99320), (1004, 99200), (1010, 99182), (1047, 99083), (1048, 99080), (1058, 99059), (1083, 99005), (1107, 98969),

Gene: DreamTeam_25 Start: 20615, Stop: 22009, Start Num: 333
Candidate Starts for DreamTeam_25:
(Start: 333 @20615 has 73 MA's), (381, 20672), (448, 20777), (449, 20780), (484, 20864), (512, 20897), (542, 20951), (544, 20954), (588, 21044), (607, 21080), (617, 21101), (634, 21134), (640, 21155), (730, 21287), (740, 21314), (763, 21353), (778, 21380), (798, 21413), (804, 21428), (814, 21437), (840, 21482), (858, 21518), (910, 21599), (926, 21623), (939, 21641), (944, 21653), (975, 21713), (983, 21737), (988, 21743), (989, 21746), (997, 21764), (998, 21767), (1007, 21791), (1009, 21800), (1038, 21887), (1065, 21938), (1084, 21977),

Gene: Dryad_74 Start: 51068, Stop: 49182, Start Num: 49
Candidate Starts for Dryad_74:
(27, 51137), (31, 51128), (33, 51125), (Start: 49 @51068 has 8 MA's), (83, 50990), (89, 50981), (111, 50921), (120, 50900), (137, 50876), (161, 50813), (202, 50738), (Start: 222 @50714 has 29 MA's), (341, 50516), (348, 50507), (418, 50399), (509, 50243), (562, 50138), (586, 50087), (616, 50027), (666, 49940), (668, 49937), (695, 49883), (745, 49832), (748, 49823), (755, 49811), (778, 49778), (815, 49712), (854, 49685), (856, 49682), (926, 49583), (943, 49556), (990, 49466), (1010, 49406), (1013, 49397), (1017, 49382), (1038, 49322), (1050, 49307), (1066, 49268),

Gene: Duckfeet_182 Start: 100406, Stop: 98544, Start Num: 119
Candidate Starts for Duckfeet_182:

(Start: 119 @100406 has 185 MA's), (Start: 145 @100346 has 1 MA's), (Start: 182 @100277 has 1 MA's), (420, 99905), (443, 99863), (449, 99845), (506, 99761), (518, 99737), (530, 99713), (532, 99710), (555, 99665), (579, 99614), (595, 99584), (601, 99572), (661, 99443), (713, 99350), (717, 99344), (746, 99281), (748, 99275), (811, 99179), (814, 99173), (879, 99062), (921, 98990), (948, 98957), (951, 98948), (1004, 98828), (1010, 98810), (1047, 98711), (1048, 98708), (1058, 98687), (1083, 98633), (1107, 98597),

Gene: DumpTruck_58 Start: 39261, Stop: 41165, Start Num: 58
Candidate Starts for DumpTruck_58:
(19, 39126), (20, 39147), (24, 39168), (Start: 37 @39198 has 1 MA's), (Start: 50 @39243 has 13 MA's), (Start: 51 @39246 has 50 MA's), (Start: 58 @39261 has 39 MA's), (75, 39309), (87, 39342), (90, 39345), (138, 39450), (173, 39528), (178, 39537), (Start: 222 @39609 has 29 MA's), (229, 39624), (237, 39633), (293, 39726), (300, 39732), (335, 39792), (466, 40005), (506, 40038), (554, 40131), (561, 40146), (572, 40173), (581, 40194), (638, 40308), (662, 40350), (666, 40359), (686, 40398), (689, 40410), (720, 40455), (727, 40461), (745, 40506), (751, 40521), (829, 40614), (903, 40707), (989, 40860), (1004, 40902), (1010, 40920), (1011, 40923), (1066, 41061), (1083, 41097), (1114, 41151),

Gene: DunneganBoMo_90 Start: 76558, Stop: 78402, Start Num: 60
Candidate Starts for DunneganBoMo_90:
(Start: 60 @76558 has 17 MA's), (167, 76831), (Start: 252 @76939 has 13 MA's), (290, 77005), (331, 77074), (336, 77083), (447, 77158), (591, 77467), (614, 77512), (638, 77551), (647, 77572), (671, 77617), (729, 77674), (731, 77680), (745, 77713), (750, 77725), (757, 77737), (842, 77854), (846, 77860), (906, 77950), (925, 77983), (970, 78067), (1011, 78160), (1018, 78184), (1089, 78352), (1092, 78355),

Gene: Duocatuli_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Duocatuli_40:
(187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1033, 29564), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: DustyDino_88 Start: 50790, Stop: 49270, Start Num: 250
Candidate Starts for DustyDino_88:
(230, 50823), (Start: 250 @50790 has 29 MA's), (281, 50739), (375, 50631), (419, 50565), (449, 50499), (515, 50376), (523, 50361), (552, 50304), (566, 50271), (568, 50268), (598, 50205), (622, 50154), (626, 50145), (631, 50136), (652, 50082), (673, 50043), (681, 50028), (726, 49959), (737, 49929), (767, 49866), (814, 49794), (938, 49608), (995, 49500), (1005, 49470), (1020, 49425), (1040, 49374), (1070, 49311),

Gene: E3_gp136 Start: 91237, Stop: 89288, Start Num: 110
Candidate Starts for E3_gp136:
(99, 91276), (110, 91237), (132, 91186), (136, 91177), (177, 91090), (217, 91003), (228, 90979), (254, 90931), (256, 90928), (286, 90877), (295, 90859), (340, 90796), (383, 90739), (406, 90709), (422, 90682), (436, 90658), (456, 90610), (459, 90604), (506, 90544), (542, 90469), (590, 90370), (595, 90361), (616, 90316), (623, 90307), (624, 90304), (656, 90241), (717, 90142), (729, 90121), (737, 90100), (742, 90088), (748, 90073), (781, 90019), (801, 89989), (879, 89854), (881, 89851), (907, 89803), (921, 89782), (937, 89758), (963, 89713), (989, 89653), (1067, 89452), (1087, 89410), (1113, 89368), (1126, 89332), (1127, 89320),

Gene: ET08_176 Start: 99991, Stop: 98129, Start Num: 119

Candidate Starts for ET08_176:
(Start: 119 @99991 has 185 MA's), (Start: 145 @99931 has 1 MA's), (Start: 182 @99862 has 1 MA's), (420, 99490), (443, 99448), (449, 99430), (506, 99346), (518, 99322), (530, 99298), (532, 99295), (555, 99250), (579, 99199), (595, 99169), (601, 99157), (661, 99028), (713, 98935), (717, 98929), (746, 98866), (748, 98860), (811, 98764), (814, 98758), (879, 98647), (921, 98575), (948, 98542), (951, 98533), (1004, 98413), (1010, 98395), (1047, 98296), (1048, 98293), (1058, 98272), (1083, 98218), (1107, 98182),

Gene: EasyJones_192 Start: 101257, Stop: 99395, Start Num: 119
Candidate Starts for EasyJones_192:
(Start: 119 @101257 has 185 MA's), (Start: 145 @101197 has 1 MA's), (Start: 182 @101128 has 1 MA's), (420, 100756), (443, 100714), (449, 100696), (506, 100612), (518, 100588), (530, 100564), (532, 100561), (555, 100516), (579, 100465), (595, 100435), (601, 100423), (661, 100294), (713, 100201), (717, 100195), (746, 100132), (748, 100126), (811, 100030), (814, 100024), (879, 99913), (921, 99841), (948, 99808), (951, 99799), (1004, 99679), (1010, 99661), (1047, 99562), (1048, 99559), (1058, 99538), (1083, 99484), (1107, 99448),

Gene: EdgarPoe_89 Start: 58918, Stop: 60663, Start Num: 159
Candidate Starts for EdgarPoe_89:
(Start: 159 @58918 has 18 MA's), (168, 58939), (205, 59017), (215, 59041), (238, 59086), (251, 59110), (272, 59149), (370, 59308), (375, 59317), (418, 59380), (441, 59413), (444, 59419), (445, 59422), (450, 59437), (459, 59452), (500, 59539), (508, 59551), (511, 59557), (529, 59593), (542, 59617), (551, 59629), (613, 59761), (652, 59845), (672, 59878), (680, 59893), (682, 59896), (692, 59920), (714, 59944), (718, 59950), (725, 59956), (747, 60013), (779, 60058), (818, 60124), (827, 60136), (835, 60145), (842, 60169), (845, 60172), (864, 60208), (866, 60214), (877, 60238), (928, 60319), (931, 60325), (942, 60343), (960, 60370), (964, 60376), (977, 60406), (978, 60412), (1006, 60472), (1021, 60523), (1024, 60529), (1038, 60568),

Gene: Edmundo_94 Start: 55295, Stop: 56959, Start Num: 287
Candidate Starts for Edmundo_94:
(Start: 287 @55295 has 9 MA's), (325, 55358), (332, 55367), (391, 55454), (423, 55499), (478, 55619), (526, 55712), (537, 55736), (542, 55748), (566, 55802), (588, 55853), (604, 55889), (617, 55916), (628, 55937), (631, 55943), (645, 55985), (712, 56102), (748, 56180), (759, 56198), (786, 56249), (804, 56282), (827, 56315), (854, 56372), (868, 56399), (890, 56441), (939, 56522), (953, 56552), (963, 56570), (975, 56597), (985, 56624), (1013, 56699), (1021, 56726), (1026, 56738), (1058, 56807), (1060, 56816), (1061, 56819), (1076, 56852), (1095, 56888), (1105, 56903), (1114, 56918), (1123, 56939),

Gene: Eggsie_57 Start: 51628, Stop: 50060, Start Num: 194
Candidate Starts for Eggsie_57:
(102, 51847), (142, 51745), (154, 51718), (165, 51691), (176, 51670), (181, 51661), (Start: 194 @51628 has 3 MA's), (201, 51619), (Start: 222 @51592 has 29 MA's), (Start: 294 @51469 has 29 MA's), (321, 51424), (348, 51382), (380, 51334), (382, 51331), (386, 51325), (Start: 388 @51322 has 1 MA's), (401, 51304), (412, 51283), (435, 51256), (510, 51133), (520, 51115), (565, 51028), (572, 51013), (617, 50920), (668, 50842), (679, 50818), (695, 50782), (697, 50779), (732, 50752), (750, 50710), (780, 50665), (791, 50647), (842, 50581), (873, 50530), (883, 50515), (894, 50494), (957, 50437), (974, 50410), (999, 50353), (1000, 50347), (1004, 50335), (1020, 50284), (1030, 50260), (1047, 50221), (1052, 50209), (1054, 50206), (1097, 50113), (1107, 50098), (1119, 50077),

Gene: EggyFarm_196 Start: 103320, Stop: 101458, Start Num: 119
Candidate Starts for EggyFarm_196:
(Start: 119 @103320 has 185 MA's), (Start: 145 @103260 has 1 MA's), (Start: 182 @103191 has 1 MA's), (420, 102819), (443, 102777), (449, 102759), (506, 102675), (518, 102651), (530, 102627),

(532, 102624), (555, 102579), (579, 102528), (595, 102498), (601, 102486), (661, 102357), (713, 102264), (717, 102258), (746, 102195), (748, 102189), (811, 102093), (814, 102087), (879, 101976), (888, 101961), (921, 101904), (948, 101871), (951, 101862), (1004, 101742), (1010, 101724), (1047, 101625), (1048, 101622), (1058, 101601), (1083, 101547), (1107, 101511),

Gene: EhyElimayoE_125 Start: 82183, Stop: 80540, Start Num: 200
Candidate Starts for EhyElimayoE_125:
(Start: 200 @82183 has 9 MA's), (210, 82159), (270, 82051), (353, 81946), (379, 81907), (414, 81856), (457, 81763), (482, 81703), (505, 81679), (507, 81676), (521, 81649), (568, 81556), (643, 81403), (657, 81379), (659, 81376), (674, 81343), (681, 81331), (726, 81259), (761, 81181), (787, 81136), (881, 80989), (903, 80950), (907, 80944), (927, 80914), (947, 80884), (952, 80872), (984, 80806), (1019, 80716), (1020, 80713), (1061, 80617), (1065, 80611), (1068, 80602), (1076, 80584),

Gene: Ekhein_59 Start: 51454, Stop: 49922, Start Num: 222
Candidate Starts for Ekhein_59:
(102, 51709), (121, 51658), (142, 51607), (165, 51553), (181, 51523), (Start: 194 @51490 has 3 MA's), (201, 51481), (Start: 222 @51454 has 29 MA's), (321, 51286), (348, 51244), (380, 51196), (Start: 388 @51184 has 1 MA's), (396, 51172), (401, 51166), (412, 51145), (435, 51118), (520, 50977), (565, 50890), (572, 50875), (578, 50863), (591, 50833), (617, 50782), (639, 50755), (668, 50704), (688, 50662), (695, 50644), (697, 50641), (732, 50614), (750, 50572), (780, 50527), (873, 50392), (883, 50377), (894, 50356), (957, 50299), (972, 50275), (974, 50272), (999, 50215), (1000, 50209), (1002, 50203), (1004, 50197), (1020, 50146), (1030, 50122), (1047, 50083), (1052, 50071), (1054, 50068), (1097, 49975), (1107, 49960), (1119, 49939),

Gene: Eleri_40 Start: 30943, Stop: 29531, Start Num: 360
Candidate Starts for Eleri_40:
(Start: 360 @30943 has 155 MA's), (384, 30913), (Start: 388 @30907 has 1 MA's), (411, 30874), (503, 30682), (518, 30655), (551, 30595), (562, 30568), (563, 30565), (583, 30523), (611, 30469), (634, 30427), (721, 30256), (732, 30235), (738, 30220), (743, 30208), (748, 30196), (750, 30193), (763, 30175), (809, 30094), (836, 30058), (862, 30004), (887, 29962), (907, 29932), (923, 29908), (930, 29902), (958, 29860), (989, 29791), (999, 29767), (1000, 29761), (1002, 29755), (1007, 29743), (1045, 29647), (1048, 29638), (1058, 29620), (1061, 29608), (1083, 29563),

Gene: Ellewin_89 Start: 75969, Stop: 77813, Start Num: 60
Candidate Starts for Ellewin_89:
(Start: 60 @75969 has 17 MA's), (167, 76242), (Start: 252 @76350 has 13 MA's), (290, 76416), (331, 76485), (336, 76494), (447, 76569), (487, 76665), (591, 76878), (614, 76923), (638, 76962), (647, 76983), (671, 77028), (731, 77091), (745, 77124), (750, 77136), (757, 77148), (842, 77265), (846, 77271), (893, 77334), (913, 77373), (925, 77394), (970, 77478), (1011, 77571), (1018, 77595), (1089, 77763), (1092, 77766),

Gene: EmToTheThree_189 Start: 101657, Stop: 99795, Start Num: 119
Candidate Starts for EmToTheThree_189:
(Start: 119 @101657 has 185 MA's), (Start: 145 @101597 has 1 MA's), (Start: 182 @101528 has 1 MA's), (420, 101156), (443, 101114), (449, 101096), (506, 101012), (518, 100988), (530, 100964), (532, 100961), (555, 100916), (579, 100865), (595, 100835), (601, 100823), (661, 100694), (713, 100601), (717, 100595), (746, 100532), (748, 100526), (811, 100430), (814, 100424), (879, 100313), (921, 100241), (948, 100208), (951, 100199), (1004, 100079), (1010, 100061), (1047, 99962), (1048, 99959), (1058, 99938), (1083, 99884), (1107, 99848),

Gene: Emianna_72 Start: 56707, Stop: 54641, Start Num: 35
Candidate Starts for Emianna_72:

(2, 57205), (5, 57004), (8, 56911), (9, 56899), (11, 56881), (Start: 35 @56707 has 37 MA's), (Start: 80 @56569 has 2 MA's), (92, 56545), (178, 56341), (Start: 200 @56296 has 9 MA's), (271, 56188), (345, 56074), (348, 56071), (409, 55981), (411, 55978), (450, 55918), (538, 55780), (547, 55762), (561, 55738), (618, 55615), (668, 55510), (731, 55384), (755, 55330), (834, 55204), (842, 55195), (854, 55171), (903, 55099), (907, 55093), (925, 55063), (957, 55006), (989, 54946), (1011, 54883), (1041, 54802),

Gene: EmmaElysia_191 Start: 101268, Stop: 99406, Start Num: 119
Candidate Starts for EmmaElysia_191:
(Start: 119 @101268 has 185 MA's), (Start: 145 @101208 has 1 MA's), (Start: 182 @101139 has 1 MA's), (420, 100767), (443, 100725), (449, 100707), (506, 100623), (518, 100599), (530, 100575), (532, 100572), (555, 100527), (579, 100476), (595, 100446), (601, 100434), (661, 100305), (713, 100212), (717, 100206), (746, 100143), (748, 100137), (811, 100041), (814, 100035), (879, 99924), (921, 99852), (948, 99819), (951, 99810), (1004, 99690), (1010, 99672), (1047, 99573), (1048, 99570), (1058, 99549), (1083, 99495), (1107, 99459),

Gene: Emmetator_93 Start: 76561, Stop: 78405, Start Num: 60
Candidate Starts for Emmetator_93:
(Start: 60 @76561 has 17 MA's), (167, 76834), (Start: 252 @76942 has 13 MA's), (290, 77008), (331, 77077), (336, 77086), (447, 77161), (591, 77470), (614, 77515), (638, 77554), (647, 77575), (671, 77620), (729, 77677), (731, 77683), (745, 77716), (750, 77728), (757, 77740), (842, 77857), (846, 77863), (906, 77953), (925, 77986), (970, 78070), (1011, 78163), (1018, 78187), (1089, 78355), (1092, 78358),

Gene: Endor_41 Start: 31504, Stop: 30116, Start Num: 358
Candidate Starts for Endor_41:
(Start: 279 @31618 has 1 MA's), (296, 31597), (Start: 358 @31504 has 23 MA's), (445, 31360), (448, 31354), (449, 31351), (503, 31237), (518, 31210), (551, 31150), (562, 31123), (563, 31120), (611, 31024), (634, 30982), (721, 30811), (732, 30790), (769, 30715), (836, 30655), (887, 30559), (966, 30442), (973, 30424), (1000, 30358), (1002, 30352), (1007, 30340), (1045, 30244), (1068, 30190), (1070, 30187), (1081, 30163), (1098, 30133),

Gene: Ennea_79 Start: 57918, Stop: 55861, Start Num: 35
Candidate Starts for Ennea_79:
(6, 58206), (10, 58098), (Start: 35 @57918 has 37 MA's), (187, 57543), (274, 57402), (309, 57351), (345, 57291), (348, 57288), (398, 57216), (409, 57198), (450, 57135), (453, 57129), (464, 57102), (520, 57036), (538, 56997), (547, 56979), (561, 56955), (618, 56832), (637, 56799), (668, 56736), (731, 56613), (767, 56544), (778, 56526), (842, 56421), (847, 56412), (889, 56352), (903, 56319), (907, 56313), (925, 56283), (957, 56226), (989, 56166), (1000, 56136), (1011, 56103), (1080, 55938),

Gene: Erasmago_105 Start: 76053, Stop: 74113, Start Num: 64
Candidate Starts for Erasmago_105:
(Start: 64 @76053 has 19 MA's), (109, 75927), (164, 75807), (224, 75732), (271, 75651), (280, 75639), (298, 75609), (518, 75189), (587, 75045), (620, 74976), (637, 74955), (668, 74895), (671, 74886), (679, 74871), (731, 74823), (745, 74790), (750, 74778), (770, 74745), (807, 74685), (816, 74670), (852, 74640), (909, 74553), (913, 74547), (949, 74484), (965, 74457), (1002, 74376), (1010, 74352), (1030, 74295), (1048, 74253), (1061, 74217),

Gene: Erdmann_189 Start: 101132, Stop: 99270, Start Num: 119
Candidate Starts for Erdmann_189:
(Start: 119 @101132 has 185 MA's), (Start: 145 @101072 has 1 MA's), (Start: 182 @101003 has 1 MA's), (420, 100631), (443, 100589), (449, 100571), (506, 100487), (518, 100463), (530, 100439), (532, 100436), (555, 100391), (579, 100340), (595, 100310), (601, 100298), (661, 100169), (713,

100076), (717, 100070), (746, 100007), (748, 100001), (811, 99905), (814, 99899), (879, 99788), (921, 99716), (948, 99683), (951, 99674), (1004, 99554), (1010, 99536), (1047, 99437), (1048, 99434), (1058, 99413), (1083, 99359), (1107, 99323),

Gene: Erenyeager_84 Start: 49578, Stop: 48058, Start Num: 250
Candidate Starts for Erenyeager_84:
(230, 49611), (Start: 250 @49578 has 29 MA's), (281, 49527), (363, 49428), (375, 49419), (419, 49353), (449, 49287), (515, 49164), (523, 49149), (552, 49092), (566, 49059), (568, 49056), (598, 48993), (622, 48942), (626, 48933), (631, 48924), (641, 48894), (652, 48870), (673, 48831), (681, 48816), (713, 48765), (726, 48747), (737, 48717), (767, 48654), (814, 48582), (995, 48288), (1005, 48258), (1010, 48246), (1020, 48213), (1070, 48099),

Gene: Erk16_52 Start: 39875, Stop: 41818, Start Num: 51
Candidate Starts for Erk16_52:
(32, 39812), (Start: 51 @39875 has 50 MA's), (66, 39902), (88, 39974), (107, 40028), (140, 40088), (150, 40115), (177, 40166), (195, 40208), (Start: 222 @40244 has 29 MA's), (271, 40331), (331, 40424), (341, 40439), (354, 40460), (433, 40562), (447, 40595), (458, 40619), (509, 40679), (554, 40766), (587, 40841), (639, 40931), (668, 40982), (669, 40985), (720, 41075), (731, 41093), (745, 41126), (784, 41192), (796, 41210), (842, 41273), (903, 41357), (969, 41474), (989, 41522), (1011, 41585), (1041, 41669),

Gene: Erla_40 Start: 30799, Stop: 29411, Start Num: 360
Candidate Starts for Erla_40:
(220, 31021), (Start: 360 @30799 has 155 MA's), (445, 30655), (448, 30649), (449, 30646), (503, 30532), (518, 30505), (551, 30445), (562, 30418), (563, 30415), (611, 30319), (634, 30277), (721, 30106), (732, 30085), (738, 30070), (743, 30058), (769, 30010), (836, 29950), (887, 29854), (932, 29791), (966, 29737), (1000, 29653), (1002, 29647), (1007, 29635), (1033, 29560), (1045, 29539), (1068, 29485), (1070, 29482), (1081, 29458),

Gene: ErnieJ_181 Start: 99437, Stop: 97575, Start Num: 119
Candidate Starts for ErnieJ_181:
(Start: 119 @99437 has 185 MA's), (Start: 145 @99377 has 1 MA's), (Start: 182 @99308 has 1 MA's), (420, 98936), (443, 98894), (449, 98876), (506, 98792), (518, 98768), (530, 98744), (532, 98741), (555, 98696), (579, 98645), (595, 98615), (601, 98603), (661, 98474), (713, 98381), (717, 98375), (746, 98312), (748, 98306), (811, 98210), (814, 98204), (879, 98093), (921, 98021), (948, 97988), (951, 97979), (1004, 97859), (1010, 97841), (1047, 97742), (1048, 97739), (1058, 97718), (1083, 97664), (1107, 97628),

Gene: Erudite_39 Start: 25497, Stop: 27404, Start Num: 58
Candidate Starts for Erudite_39:
(17, 25323), (Start: 58 @25497 has 39 MA's), (83, 25560), (96, 25581), (115, 25635), (183, 25770), (193, 25797), (202, 25812), (Start: 235 @25857 has 1 MA's), (341, 26031), (348, 26040), (409, 26130), (433, 26172), (440, 26187), (539, 26373), (610, 26508), (616, 26520), (639, 26553), (731, 26682), (778, 26769), (796, 26799), (969, 27072), (990, 27111), (1010, 27171), (1044, 27261), (1058, 27291), (1074, 27333), (1102, 27384),

Gene: Erutan_60 Start: 40423, Stop: 42336, Start Num: 51
Candidate Starts for Erutan_60:
(20, 40297), (21, 40306), (24, 40318), (28, 40351), (Start: 50 @40420 has 13 MA's), (Start: 51 @40423 has 50 MA's), (Start: 58 @40435 has 39 MA's), (75, 40483), (87, 40516), (158, 40675), (173, 40702), (178, 40711), (Start: 222 @40783 has 29 MA's), (271, 40870), (296, 40903), (335, 40966), (399, 41056), (418, 41083), (506, 41212), (518, 41236), (538, 41278), (562, 41326), (572, 41347), (581, 41368), (610, 41425), (638, 41479), (662, 41521), (689, 41581), (745, 41677), (746, 41680), (918,

41908), (969, 41998), (989, 42034), (992, 42040), (1010, 42094), (1022, 42133), (1066, 42235), (1072, 42250), (1083, 42271),

Gene: Espinosa_40 Start: 30814, Stop: 29426, Start Num: 360
Candidate Starts for Espinosa_40:
(220, 31036), (Start: 360 @30814 has 155 MA's), (445, 30670), (448, 30664), (449, 30661), (503, 30547), (518, 30520), (551, 30460), (562, 30433), (563, 30430), (611, 30334), (634, 30292), (721, 30121), (732, 30100), (738, 30085), (769, 30025), (836, 29965), (887, 29869), (932, 29806), (966, 29752), (1000, 29668), (1002, 29662), (1007, 29650), (1045, 29554), (1068, 29500), (1070, 29497), (1081, 29473),

Gene: Essence_185 Start: 99990, Stop: 98128, Start Num: 119
Candidate Starts for Essence_185:
(Start: 119 @99990 has 185 MA's), (Start: 145 @99930 has 1 MA's), (Start: 182 @99861 has 1 MA's), (420, 99489), (443, 99447), (449, 99429), (506, 99345), (518, 99321), (530, 99297), (532, 99294), (555, 99249), (579, 99198), (595, 99168), (601, 99156), (661, 99027), (713, 98934), (717, 98928), (746, 98865), (748, 98859), (811, 98763), (814, 98757), (879, 98646), (921, 98574), (948, 98541), (951, 98532), (1004, 98412), (1010, 98394), (1047, 98295), (1048, 98292), (1058, 98271), (1083, 98217), (1107, 98181),

Gene: EstebanJulior_26 Start: 21743, Stop: 23140, Start Num: 333
Candidate Starts for EstebanJulior_26:
(Start: 333 @21743 has 73 MA's), (381, 21803), (448, 21908), (449, 21911), (484, 21995), (512, 22028), (540, 22079), (544, 22085), (582, 22166), (588, 22175), (607, 22211), (616, 22229), (617, 22232), (634, 22265), (640, 22286), (730, 22418), (758, 22475), (763, 22484), (773, 22505), (778, 22511), (798, 22544), (804, 22559), (842, 22619), (858, 22649), (910, 22730), (939, 22772), (957, 22805), (983, 22868), (989, 22877), (994, 22889), (997, 22895), (1002, 22910), (1007, 22922), (1009, 22931), (1038, 23018), (1067, 23075), (1084, 23108),

Gene: Etna_40 Start: 31284, Stop: 29893, Start Num: 358
Candidate Starts for Etna_40:
(Start: 279 @31398 has 1 MA's), (338, 31314), (Start: 358 @31284 has 23 MA's), (445, 31137), (448, 31131), (449, 31128), (503, 31014), (518, 30987), (551, 30927), (562, 30900), (563, 30897), (611, 30801), (634, 30759), (721, 30588), (732, 30567), (836, 30432), (887, 30336), (966, 30219), (973, 30201), (1000, 30135), (1002, 30129), (1007, 30117), (1045, 30021), (1068, 29967), (1070, 29964), (1081, 29940), (1098, 29910),

Gene: Etta_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Etta_40:
(220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (743, 30062), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1033, 29564), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: Eunoia_26 Start: 21745, Stop: 23139, Start Num: 333
Candidate Starts for Eunoia_26:
(Start: 333 @21745 has 73 MA's), (381, 21802), (441, 21889), (448, 21907), (449, 21910), (484, 21994), (512, 22027), (540, 22078), (544, 22084), (571, 22144), (588, 22174), (607, 22210), (616, 22228), (640, 22285), (646, 22303), (651, 22309), (677, 22336), (730, 22417), (740, 22444), (753, 22468), (763, 22483), (778, 22510), (798, 22543), (804, 22558), (888, 22690), (908, 22726), (926, 22753), (934, 22765), (944, 22783), (988, 22873), (990, 22879), (997, 22894), (998, 22897), (1009, 22930), (1030, 22990), (1038, 23017), (1067, 23074), (1084, 23107), (1094, 23131),

Gene: Ewok_187 Start: 101051, Stop: 99189, Start Num: 119
Candidate Starts for Ewok_187:
(Start: 119 @101051 has 185 MA's), (Start: 145 @100991 has 1 MA's), (Start: 182 @100922 has 1 MA's), (420, 100550), (443, 100508), (449, 100490), (506, 100406), (518, 100382), (530, 100358), (532, 100355), (555, 100310), (579, 100259), (595, 100229), (601, 100217), (661, 100088), (713, 99995), (717, 99989), (746, 99926), (748, 99920), (811, 99824), (814, 99818), (879, 99707), (921, 99635), (948, 99602), (951, 99593), (1004, 99473), (1010, 99455), (1047, 99356), (1048, 99353), (1058, 99332), (1083, 99278), (1107, 99242),

Gene: Exiguo_58 Start: 51466, Stop: 49934, Start Num: 222
Candidate Starts for Exiguo_58:
(102, 51721), (121, 51670), (142, 51619), (165, 51565), (181, 51535), (Start: 194 @51502 has 3 MA's), (201, 51493), (Start: 222 @51466 has 29 MA's), (321, 51298), (348, 51256), (380, 51208), (Start: 388 @51196 has 1 MA's), (396, 51184), (401, 51178), (412, 51157), (435, 51130), (520, 50989), (565, 50902), (572, 50887), (578, 50875), (591, 50845), (617, 50794), (639, 50767), (668, 50716), (688, 50674), (695, 50656), (697, 50653), (732, 50626), (750, 50584), (780, 50539), (873, 50404), (883, 50389), (894, 50368), (957, 50311), (972, 50287), (974, 50284), (999, 50227), (1000, 50221), (1002, 50215), (1004, 50209), (1020, 50158), (1030, 50134), (1047, 50095), (1052, 50083), (1054, 50080), (1097, 49987), (1107, 49972), (1119, 49951),

Gene: Exploradora_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Exploradora_40:
(220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: Ezurina_37 Start: 27463, Stop: 25631, Start Num: 64
Candidate Starts for Ezurina_37:
(Start: 64 @27463 has 19 MA's), (Start: 80 @27406 has 2 MA's), (173, 27205), (Start: 252 @27070 has 13 MA's), (348, 26908), (447, 26851), (453, 26836), (518, 26686), (521, 26680), (528, 26665), (552, 26620), (572, 26572), (581, 26551), (589, 26533), (616, 26482), (671, 26377), (731, 26314), (777, 26242), (842, 26161), (869, 26128), (888, 26095), (900, 26077), (906, 26059), (907, 26056), (927, 26020), (989, 25912), (993, 25903), (1013, 25843), (1030, 25795), (1051, 25747),

Gene: Fabyndrax_38 Start: 31687, Stop: 30275, Start Num: 360
Candidate Starts for Fabyndrax_38:
(338, 31717), (Start: 358 @31690 has 23 MA's), (Start: 360 @31687 has 155 MA's), (380, 31663), (Start: 388 @31651 has 1 MA's), (411, 31618), (449, 31540), (503, 31426), (518, 31399), (551, 31339), (562, 31312), (563, 31309), (583, 31267), (611, 31213), (686, 31057), (717, 31006), (721, 31000), (732, 30979), (735, 30973), (738, 30964), (748, 30940), (786, 30877), (796, 30862), (836, 30802), (839, 30796), (862, 30748), (887, 30706), (932, 30643), (944, 30631), (989, 30535), (993, 30526), (999, 30511), (1000, 30505), (1048, 30382), (1061, 30352), (1081, 30310), (1098, 30283),

Gene: FarmerDoug_40 Start: 31139, Stop: 29748, Start Num: 267
Candidate Starts for FarmerDoug_40:
(134, 31427), (141, 31406), (Start: 267 @31139 has 6 MA's), (445, 30992), (448, 30986), (449, 30983), (474, 30923), (503, 30869), (518, 30842), (551, 30782), (562, 30755), (563, 30752), (611, 30656), (634, 30614), (721, 30443), (732, 30422), (743, 30395), (769, 30347), (821, 30305), (836, 30287), (887, 30191), (966, 30074), (973, 30056), (992, 30014), (1000, 29990), (1002, 29984), (1007, 29972), (1045, 29876), (1068, 29822), (1070, 29819), (1081, 29795), (1098, 29765),

Gene: FelixAlejandro_64 Start: 54160, Stop: 52628, Start Num: 222
Candidate Starts for FelixAlejandro_64:
(102, 54415), (121, 54364), (165, 54259), (181, 54229), (Start: 194 @54196 has 3 MA's), (201, 54187), (Start: 222 @54160 has 29 MA's), (301, 54028), (321, 53992), (348, 53950), (Start: 360 @53932 has 155 MA's), (380, 53902), (Start: 388 @53890 has 1 MA's), (396, 53878), (401, 53872), (412, 53851), (520, 53683), (565, 53596), (572, 53581), (578, 53569), (591, 53539), (617, 53488), (668, 53410), (679, 53386), (688, 53368), (695, 53350), (697, 53347), (726, 53338), (732, 53320), (780, 53233), (873, 53098), (883, 53083), (894, 53062), (972, 52981), (974, 52978), (999, 52921), (1000, 52915), (1004, 52903), (1020, 52852), (1030, 52828), (1047, 52789), (1052, 52777), (1054, 52774), (1097, 52681), (1107, 52666), (1119, 52645),

Gene: Figueroism_41 Start: 31108, Stop: 29720, Start Num: 360
Candidate Starts for Figueroism_41:
(220, 31330), (Start: 360 @31108 has 155 MA's), (445, 30964), (448, 30958), (449, 30955), (503, 30841), (518, 30814), (551, 30754), (562, 30727), (563, 30724), (611, 30628), (634, 30586), (721, 30415), (732, 30394), (738, 30379), (743, 30367), (769, 30319), (836, 30259), (887, 30163), (932, 30100), (966, 30046), (1000, 29962), (1002, 29956), (1007, 29944), (1045, 29848), (1068, 29794), (1070, 29791), (1081, 29767),

Gene: Finch_61 Start: 54692, Stop: 52803, Start Num: 125
Candidate Starts for Finch_61:
(Start: 125 @54692 has 3 MA's), (128, 54686), (140, 54659), (175, 54584), (180, 54575), (Start: 182 @54572 has 1 MA's), (217, 54497), (226, 54476), (230, 54470), (241, 54449), (Start: 244 @54443 has 6 MA's), (Start: 352 @54290 has 2 MA's), (383, 54245), (385, 54242), (406, 54215), (415, 54197), (420, 54191), (422, 54188), (441, 54152), (443, 54149), (446, 54140), (458, 54113), (480, 54065), (501, 54038), (503, 54035), (508, 54029), (518, 54008), (532, 53981), (538, 53966), (551, 53945), (573, 53894), (579, 53882), (580, 53879), (595, 53849), (601, 53837), (640, 53756), (671, 53708), (673, 53705), (696, 53651), (711, 53642), (729, 53609), (737, 53588), (741, 53579), (746, 53567), (780, 53504), (797, 53474), (805, 53456), (811, 53450), (815, 53441), (847, 53387), (879, 53336), (903, 53291), (906, 53288), (907, 53285), (963, 53192), (985, 53138), (989, 53132), (1010, 53075), (1020, 53042), (1021, 53039), (1022, 53036), (1058, 52955), (1061, 52943), (1067, 52934), (1076, 52913), (1087, 52889), (1097, 52871),

Gene: Finny_41 Start: 30901, Stop: 29525, Start Num: 388
Candidate Starts for Finny_41:
(Start: 358 @30940 has 23 MA's), (Start: 360 @30937 has 155 MA's), (384, 30907), (Start: 388 @30901 has 1 MA's), (411, 30868), (503, 30676), (518, 30649), (551, 30589), (562, 30562), (563, 30559), (583, 30517), (611, 30463), (634, 30421), (686, 30307), (721, 30250), (732, 30229), (743, 30202), (748, 30190), (750, 30187), (763, 30169), (809, 30088), (836, 30052), (862, 29998), (887, 29956), (907, 29926), (923, 29902), (930, 29896), (958, 29854), (989, 29785), (999, 29761), (1000, 29755), (1002, 29749), (1007, 29737), (1058, 29614), (1061, 29602), (1083, 29557),

Gene: FireCastle_33 Start: 23203, Stop: 24633, Start Num: 337
Candidate Starts for FireCastle_33:
(291, 23134), (Start: 337 @23203 has 1 MA's), (Start: 339 @23206 has 21 MA's), (524, 23524), (542, 23563), (555, 23584), (599, 23671), (607, 23692), (778, 24007), (791, 24028), (804, 24055), (824, 24082), (827, 24085), (840, 24112), (842, 24118), (860, 24154), (895, 24202), (914, 24232), (963, 24316), (975, 24337), (998, 24391), (1004, 24409), (1009, 24424), (1013, 24436), (1026, 24475), (1038, 24511), (1042, 24517), (1047, 24529), (1078, 24592), (1096, 24628),

Gene: Fixie_178 Start: 100386, Stop: 98524, Start Num: 119
Candidate Starts for Fixie_178:

(Start: 119 @100386 has 185 MA's), (Start: 145 @100326 has 1 MA's), (Start: 182 @100257 has 1 MA's), (420, 99885), (443, 99843), (449, 99825), (506, 99741), (518, 99717), (530, 99693), (532, 99690), (555, 99645), (579, 99594), (595, 99564), (601, 99552), (661, 99423), (713, 99330), (717, 99324), (746, 99261), (748, 99255), (811, 99159), (814, 99153), (879, 99042), (921, 98970), (948, 98937), (951, 98928), (1004, 98808), (1010, 98790), (1047, 98691), (1048, 98688), (1058, 98667), (1083, 98613), (1107, 98577),

Gene: Flabslab_184 Start: 99579, Stop: 97717, Start Num: 119
Candidate Starts for Flabslab_184:
(Start: 119 @99579 has 185 MA's), (Start: 145 @99519 has 1 MA's), (Start: 182 @99450 has 1 MA's), (420, 99078), (443, 99036), (449, 99018), (506, 98934), (518, 98910), (530, 98886), (532, 98883), (555, 98838), (579, 98787), (595, 98757), (601, 98745), (661, 98616), (713, 98523), (717, 98517), (746, 98454), (748, 98448), (811, 98352), (814, 98346), (879, 98235), (921, 98163), (948, 98130), (951, 98121), (1004, 98001), (1010, 97983), (1047, 97884), (1048, 97881), (1058, 97860), (1083, 97806), (1107, 97770),

Gene: Flakey_58 Start: 52330, Stop: 50798, Start Num: 222
Candidate Starts for Flakey_58:
(102, 52585), (121, 52534), (142, 52483), (165, 52429), (181, 52399), (Start: 194 @52366 has 3 MA's), (201, 52357), (Start: 222 @52330 has 29 MA's), (321, 52162), (348, 52120), (380, 52072), (Start: 388 @52060 has 1 MA's), (396, 52048), (401, 52042), (412, 52021), (435, 51994), (520, 51853), (565, 51766), (572, 51751), (578, 51739), (591, 51709), (617, 51658), (639, 51631), (668, 51580), (688, 51538), (695, 51520), (697, 51517), (732, 51490), (750, 51448), (780, 51403), (873, 51268), (883, 51253), (894, 51232), (957, 51175), (972, 51151), (974, 51148), (999, 51091), (1000, 51085), (1002, 51079), (1004, 51073), (1020, 51022), (1030, 50998), (1047, 50959), (1052, 50947), (1054, 50944), (1097, 50851), (1107, 50836), (1119, 50815),

Gene: Flapper_75 Start: 57019, Stop: 54962, Start Num: 35
Candidate Starts for Flapper_75:
(6, 57304), (11, 57187), (14, 57169), (Start: 35 @57019 has 37 MA's), (115, 56794), (271, 56506), (309, 56452), (331, 56416), (345, 56392), (348, 56389), (404, 56311), (409, 56299), (421, 56281), (450, 56236), (453, 56230), (468, 56191), (520, 56137), (538, 56098), (547, 56080), (618, 55933), (637, 55900), (649, 55870), (653, 55864), (668, 55837), (731, 55714), (767, 55645), (778, 55627), (842, 55522), (847, 55513), (856, 55495), (889, 55453), (907, 55414), (925, 55384), (936, 55366), (957, 55327), (989, 55267), (1000, 55237), (1011, 55204), (1025, 55162), (1096, 55006),

Gene: Float294_74 Start: 57824, Stop: 55767, Start Num: 35
Candidate Starts for Float294_74:
(10, 58004), (Start: 35 @57824 has 37 MA's), (187, 57449), (255, 57341), (274, 57308), (309, 57257), (345, 57197), (348, 57194), (398, 57122), (409, 57104), (450, 57041), (453, 57035), (464, 57008), (520, 56942), (538, 56903), (547, 56885), (561, 56861), (618, 56738), (637, 56705), (668, 56642), (731, 56519), (767, 56450), (778, 56432), (842, 56327), (889, 56258), (907, 56219), (920, 56195), (925, 56189), (957, 56132), (989, 56072), (1000, 56042), (1011, 56009), (1080, 55844),

Gene: FloraSnap32_98 Start: 79635, Stop: 81473, Start Num: 60
Candidate Starts for FloraSnap32_98:
(Start: 60 @79635 has 17 MA's), (123, 79794), (167, 79890), (224, 79950), (Start: 243 @79980 has 5 MA's), (314, 80100), (344, 80151), (446, 80211), (638, 80607), (647, 80628), (671, 80673), (729, 80730), (731, 80736), (745, 80769), (750, 80781), (757, 80793), (767, 80808), (784, 80838), (807, 80877), (852, 80934), (869, 80940), (888, 80973), (925, 81042), (970, 81126), (1004, 81198), (1018, 81243), (1093, 81417), (1118, 81459),

Gene: Fludd_189 Start: 100970, Stop: 99108, Start Num: 119

Candidate Starts for Fludd_189:
(Start: 119 @100970 has 185 MA's), (Start: 145 @100910 has 1 MA's), (Start: 182 @100841 has 1 MA's), (420, 100469), (443, 100427), (449, 100409), (506, 100325), (518, 100301), (530, 100277), (532, 100274), (555, 100229), (579, 100178), (595, 100148), (601, 100136), (661, 100007), (713, 99914), (717, 99908), (746, 99845), (748, 99839), (811, 99743), (814, 99737), (879, 99626), (921, 99554), (948, 99521), (951, 99512), (1004, 99392), (1010, 99374), (1047, 99275), (1048, 99272), (1058, 99251), (1083, 99197), (1107, 99161),

Gene: Fluke_29 Start: 22148, Stop: 23548, Start Num: 333
Candidate Starts for Fluke_29:
(Start: 333 @22148 has 73 MA's), (381, 22211), (448, 22316), (449, 22319), (484, 22403), (512, 22436), (540, 22487), (544, 22493), (582, 22574), (584, 22577), (588, 22583), (607, 22619), (616, 22637), (617, 22640), (634, 22673), (640, 22694), (646, 22712), (677, 22745), (730, 22826), (740, 22853), (758, 22883), (763, 22892), (778, 22919), (798, 22952), (804, 22967), (840, 23021), (849, 23042), (857, 23054), (863, 23066), (990, 23288), (994, 23297), (997, 23303), (1009, 23339), (1030, 23399), (1038, 23426), (1084, 23516),

Gene: Fongie_189 Start: 101149, Stop: 99287, Start Num: 119
Candidate Starts for Fongie_189:
(Start: 119 @101149 has 185 MA's), (Start: 145 @101089 has 1 MA's), (Start: 182 @101020 has 1 MA's), (420, 100648), (443, 100606), (449, 100588), (506, 100504), (518, 100480), (530, 100456), (532, 100453), (555, 100408), (579, 100357), (595, 100327), (601, 100315), (661, 100186), (713, 100093), (717, 100087), (746, 100024), (748, 100018), (811, 99922), (814, 99916), (879, 99805), (921, 99733), (948, 99700), (951, 99691), (1004, 99571), (1010, 99553), (1047, 99454), (1048, 99451), (1058, 99430), (1083, 99376), (1107, 99340),

Gene: Fork_80 Start: 49528, Stop: 48008, Start Num: 250
Candidate Starts for Fork_80:
(230, 49561), (Start: 250 @49528 has 29 MA's), (281, 49477), (375, 49369), (419, 49303), (449, 49237), (515, 49114), (523, 49099), (552, 49042), (566, 49009), (568, 49006), (598, 48943), (622, 48892), (626, 48883), (631, 48874), (634, 48868), (641, 48844), (652, 48820), (673, 48781), (681, 48766), (713, 48715), (726, 48697), (737, 48667), (784, 48577), (814, 48532), (938, 48346), (995, 48238), (1005, 48208), (1020, 48163), (1040, 48112), (1061, 48067), (1070, 48049),

Gene: Forza_170 Start: 96758, Stop: 94848, Start Num: 59
Candidate Starts for Forza_170:
(Start: 59 @96758 has 5 MA's), (Start: 144 @96554 has 3 MA's), (164, 96506), (192, 96461), (229, 96380), (239, 96368), (298, 96263), (314, 96236), (444, 96131), (453, 96107), (530, 95942), (668, 95675), (671, 95666), (686, 95639), (745, 95570), (888, 95321), (918, 95255), (933, 95231), (1002, 95096), (1021, 95036), (1052, 94964),

Gene: FountainFog_39 Start: 25221, Stop: 27128, Start Num: 58
Candidate Starts for FountainFog_39:
(Start: 58 @25221 has 39 MA's), (83, 25284), (96, 25305), (115, 25359), (193, 25521), (202, 25536), (Start: 235 @25581 has 1 MA's), (341, 25755), (348, 25764), (409, 25854), (411, 25857), (433, 25896), (440, 25911), (539, 26097), (593, 26205), (610, 26232), (616, 26244), (731, 26406), (796, 26523), (987, 26832), (990, 26835), (1010, 26895), (1044, 26985), (1058, 27015), (1074, 27057), (1102, 27108),

Gene: Fowlmouth_74 Start: 44820, Stop: 46667, Start Num: 84
Candidate Starts for Fowlmouth_74:
(Start: 84 @44820 has 3 MA's), (96, 44838), (105, 44874), (135, 44925), (186, 45033), (202, 45066), (Start: 243 @45126 has 5 MA's), (265, 45168), (293, 45207), (354, 45303), (Start: 362 @45315 has 4

MA's), (380, 45342), (392, 45357), (398, 45366), (423, 45405), (Start: 430 @45420 has 1 MA's), (466, 45507), (472, 45519), (543, 45618), (547, 45624), (561, 45648), (587, 45708), (630, 45786), (642, 45813), (662, 45843), (668, 45855), (679, 45879), (729, 45951), (731, 45957), (745, 45990), (751, 46005), (768, 46029), (769, 46032), (784, 46056), (989, 46380), (993, 46389), (1002, 46416), (1010, 46440), (1025, 46485), (1041, 46527), (1062, 46575), (1071, 46593), (1101, 46650),

Gene: Foxboro_72 Start: 56919, Stop: 54853, Start Num: 35
Candidate Starts for Foxboro_72:
(8, 57123), (9, 57111), (11, 57093), (Start: 35 @56919 has 37 MA's), (Start: 80 @56781 has 2 MA's), (92, 56757), (178, 56553), (Start: 200 @56508 has 9 MA's), (271, 56400), (345, 56286), (348, 56283), (409, 56193), (411, 56190), (450, 56130), (538, 55992), (547, 55974), (561, 55950), (618, 55827), (668, 55722), (731, 55596), (755, 55542), (834, 55416), (842, 55407), (854, 55383), (903, 55311), (907, 55305), (925, 55275), (957, 55218), (989, 55158), (1011, 55095), (1041, 55014),

Gene: FoxtrotP1_186 Start: 101632, Stop: 99770, Start Num: 119
Candidate Starts for FoxtrotP1_186:
(Start: 119 @101632 has 185 MA's), (Start: 145 @101572 has 1 MA's), (Start: 182 @101503 has 1 MA's), (420, 101131), (443, 101089), (449, 101071), (506, 100987), (518, 100963), (530, 100939), (532, 100936), (555, 100891), (579, 100840), (595, 100810), (601, 100798), (661, 100669), (713, 100576), (717, 100570), (746, 100507), (748, 100501), (811, 100405), (814, 100399), (879, 100288), (921, 100216), (932, 100201), (948, 100183), (951, 100174), (1004, 100054), (1010, 100036), (1047, 99937), (1048, 99934), (1058, 99913), (1083, 99859), (1107, 99823),

Gene: Frankenweenie_134 Start: 87252, Stop: 85606, Start Num: 200
Candidate Starts for Frankenweenie_134:
(143, 87378), (Start: 200 @87252 has 9 MA's), (270, 87120), (414, 86925), (461, 86823), (505, 86748), (507, 86745), (598, 86571), (621, 86529), (643, 86472), (666, 86427), (760, 86253), (770, 86229), (792, 86199), (801, 86187), (811, 86172), (842, 86124), (907, 86010), (927, 85980), (941, 85959), (947, 85950), (952, 85938), (979, 85878), (1019, 85782), (1020, 85779), (1065, 85677), (1076, 85650),

Gene: FrayBell_191 Start: 100755, Stop: 98893, Start Num: 119
Candidate Starts for FrayBell_191:
(Start: 119 @100755 has 185 MA's), (Start: 145 @100695 has 1 MA's), (Start: 182 @100626 has 1 MA's), (420, 100254), (443, 100212), (449, 100194), (506, 100110), (518, 100086), (530, 100062), (532, 100059), (555, 100014), (579, 99963), (595, 99933), (601, 99921), (661, 99792), (713, 99699), (717, 99693), (746, 99630), (748, 99624), (811, 99528), (814, 99522), (879, 99411), (921, 99339), (948, 99306), (951, 99297), (1004, 99177), (1010, 99159), (1047, 99060), (1048, 99057), (1058, 99036), (1083, 98982), (1107, 98946),

Gene: FreddieHg_40 Start: 25185, Stop: 27092, Start Num: 58
Candidate Starts for FreddieHg_40:
(17, 25011), (Start: 58 @25185 has 39 MA's), (83, 25248), (96, 25269), (115, 25323), (183, 25458), (202, 25500), (Start: 235 @25545 has 1 MA's), (341, 25719), (348, 25728), (409, 25818), (433, 25860), (440, 25875), (539, 26061), (610, 26196), (616, 26208), (639, 26241), (731, 26370), (796, 26487), (969, 26760), (990, 26799), (1010, 26859), (1044, 26949), (1058, 26979), (1074, 27021), (1102, 27072),

Gene: Frizzle_34 Start: 32091, Stop: 30688, Start Num: 349
Candidate Starts for Frizzle_34:
(214, 32331), (215, 32328), (275, 32217), (Start: 349 @32091 has 3 MA's), (400, 32016), (416, 31992), (418, 31989), (443, 31959), (444, 31956), (491, 31845), (542, 31770), (544, 31767), (555, 31749), (566, 31716), (568, 31713), (582, 31686), (599, 31662), (610, 31635), (678, 31509), (680, 31506), (749, 31383), (752, 31380), (768, 31350), (769, 31347), (822, 31263), (847, 31218), (939, 31071),

(955, 31041), (957, 31038), (1042, 30819), (1058, 30777),

Gene: FrostedClock_101 Start: 80935, Stop: 82773, Start Num: 60
Candidate Starts for FrostedClock_101:
(Start: 60 @80935 has 17 MA's), (88, 81016), (123, 81094), (167, 81190), (224, 81250), (Start: 243 @81280 has 5 MA's), (314, 81400), (344, 81451), (446, 81511), (605, 81850), (638, 81907), (647, 81928), (671, 81973), (729, 82030), (731, 82036), (745, 82069), (750, 82081), (757, 82093), (784, 82138), (807, 82177), (852, 82234), (869, 82240), (888, 82273), (925, 82342), (970, 82426), (1018, 82543), (1093, 82717), (1118, 82759),

Gene: Fudan_122 Start: 67281, Stop: 68852, Start Num: 244
Candidate Starts for Fudan_122:
(Start: 244 @67281 has 6 MA's), (307, 67362), (323, 67386), (372, 67452), (Start: 430 @67533 has 1 MA's), (458, 67599), (508, 67665), (513, 67674), (552, 67752), (573, 67803), (620, 67905), (630, 67926), (631, 67929), (656, 67980), (661, 67989), (668, 68004), (674, 68016), (696, 68064), (713, 68079), (881, 68349), (888, 68361), (903, 68385), (963, 68472), (1001, 68565), (1007, 68577), (1010, 68589), (1049, 68697), (1056, 68709), (1081, 68766), (1086, 68778), (1091, 68784), (1121, 68832),

Gene: FudgeTart_183 Start: 100198, Stop: 98336, Start Num: 119
Candidate Starts for FudgeTart_183:
(Start: 119 @100198 has 185 MA's), (Start: 145 @100138 has 1 MA's), (Start: 182 @100069 has 1 MA's), (420, 99697), (443, 99655), (449, 99637), (506, 99553), (518, 99529), (530, 99505), (532, 99502), (555, 99457), (579, 99406), (595, 99376), (601, 99364), (661, 99235), (713, 99142), (717, 99136), (746, 99073), (748, 99067), (811, 98971), (814, 98965), (879, 98854), (921, 98782), (948, 98749), (951, 98740), (1004, 98620), (1010, 98602), (1047, 98503), (1048, 98500), (1058, 98479), (1083, 98425), (1107, 98389),

Gene: Fulcrum_60 Start: 40439, Stop: 42352, Start Num: 51
Candidate Starts for Fulcrum_60:
(20, 40313), (21, 40322), (24, 40334), (28, 40367), (Start: 50 @40436 has 13 MA's), (Start: 51 @40439 has 50 MA's), (Start: 58 @40451 has 39 MA's), (75, 40499), (87, 40532), (115, 40601), (158, 40691), (173, 40718), (178, 40727), (Start: 222 @40799 has 29 MA's), (296, 40919), (335, 40982), (399, 41072), (418, 41099), (506, 41228), (518, 41252), (538, 41294), (554, 41321), (562, 41342), (572, 41363), (581, 41384), (610, 41441), (618, 41459), (638, 41495), (662, 41537), (689, 41597), (745, 41693), (746, 41696), (918, 41924), (969, 42014), (989, 42050), (992, 42056), (1010, 42110), (1022, 42149), (1066, 42251), (1072, 42266), (1083, 42287),

Gene: Fulton_40 Start: 29072, Stop: 27645, Start Num: 360
Candidate Starts for Fulton_40:
(Start: 360 @29072 has 155 MA's), (380, 29042), (384, 29036), (448, 28922), (449, 28919), (562, 28682), (563, 28679), (686, 28424), (717, 28373), (721, 28367), (743, 28319), (763, 28286), (769, 28271), (814, 28199), (836, 28172), (840, 28163), (862, 28118), (865, 28112), (882, 28085), (932, 28013), (973, 27941), (989, 27905), (993, 27896), (999, 27881), (1000, 27875), (1007, 27857), (1019, 27815), (1048, 27752), (1076, 27689), (1081, 27680),

Gene: Fury_82 Start: 56141, Stop: 54093, Start Num: 35
Candidate Starts for Fury_82:
(Start: 35 @56141 has 37 MA's), (86, 55988), (96, 55973), (Start: 126 @55892 has 9 MA's), (187, 55769), (Start: 200 @55739 has 9 MA's), (271, 55631), (296, 55598), (328, 55547), (348, 55514), (409, 55424), (Start: 430 @55391 has 1 MA's), (450, 55361), (508, 55286), (547, 55205), (572, 55154), (618, 55058), (637, 55025), (653, 54989), (668, 54962), (729, 54845), (731, 54839), (767, 54770), (778, 54752), (784, 54740), (889, 54578), (907, 54545), (925, 54515), (933, 54500), (957, 54458), (1011, 54335), (1041, 54254), (1055, 54230), (1080, 54170),

Gene: GMA2_64 Start: 67776, Stop: 65812, Start Num: 60
Candidate Starts for GMA2_64:
(Start: 60 @67776 has 17 MA's), (109, 67644), (229, 67386), (298, 67269), (303, 67263), (314, 67242), (341, 67197), (444, 67137), (453, 67113), (467, 67077), (498, 67011), (518, 66972), (545, 66918), (572, 66864), (666, 66684), (671, 66672), (745, 66576), (754, 66558), (781, 66504), (859, 66342), (933, 66198), (992, 66093), (1011, 66036), (1021, 66003), (1083, 65859),

Gene: GMA3_58 Start: 50868, Stop: 49351, Start Num: 248
Candidate Starts for GMA3_58:
(118, 51117), (Start: 122 @51111 has 2 MA's), (151, 51039), (Start: 248 @50868 has 4 MA's), (306, 50772), (321, 50745), (336, 50727), (343, 50718), (Start: 362 @50691 has 4 MA's), (380, 50673), (401, 50643), (418, 50613), (434, 50592), (444, 50571), (477, 50493), (510, 50463), (518, 50448), (528, 50427), (574, 50334), (589, 50298), (617, 50244), (668, 50166), (697, 50103), (732, 50076), (738, 50061), (742, 50052), (786, 49989), (810, 49950), (854, 49890), (870, 49869), (871, 49866), (873, 49863), (900, 49815), (989, 49653), (1004, 49611), (1019, 49563), (1047, 49497), (1052, 49485),

Gene: GMA7_51 Start: 46927, Stop: 45296, Start Num: 144
Candidate Starts for GMA7_51:
(Start: 144 @46927 has 3 MA's), (149, 46915), (176, 46864), (179, 46858), (216, 46801), (321, 46660), (348, 46618), (Start: 357 @46606 has 5 MA's), (380, 46570), (382, 46567), (401, 46540), (Start: 430 @46504 has 1 MA's), (435, 46492), (444, 46477), (510, 46369), (565, 46264), (572, 46249), (640, 46126), (668, 46078), (679, 46054), (688, 46036), (732, 45988), (755, 45937), (780, 45901), (791, 45883), (873, 45766), (927, 45715), (957, 45673), (989, 45613), (1004, 45571), (1020, 45520), (1030, 45496), (1107, 45334), (1119, 45313),

Gene: GOATification_60 Start: 40439, Stop: 42352, Start Num: 51
Candidate Starts for GOATification_60:
(20, 40313), (21, 40322), (24, 40334), (28, 40367), (Start: 50 @40436 has 13 MA's), (Start: 51 @40439 has 50 MA's), (Start: 58 @40451 has 39 MA's), (75, 40499), (87, 40532), (115, 40601), (158, 40691), (173, 40718), (178, 40727), (Start: 222 @40799 has 29 MA's), (296, 40919), (335, 40982), (399, 41072), (418, 41099), (506, 41228), (518, 41252), (538, 41294), (554, 41321), (562, 41342), (572, 41363), (581, 41384), (610, 41441), (618, 41459), (638, 41495), (662, 41537), (689, 41597), (745, 41693), (746, 41696), (918, 41924), (969, 42014), (989, 42050), (992, 42056), (1010, 42110), (1022, 42149), (1066, 42251), (1072, 42266), (1083, 42287),

Gene: GRU1_61 Start: 48864, Stop: 46807, Start Num: 35
Candidate Starts for GRU1_61:
(11, 49032), (Start: 35 @48864 has 37 MA's), (Start: 243 @48402 has 5 MA's), (271, 48351), (345, 48237), (348, 48234), (404, 48156), (409, 48144), (421, 48126), (450, 48081), (453, 48075), (468, 48036), (520, 47982), (538, 47943), (547, 47925), (618, 47778), (637, 47745), (653, 47709), (668, 47682), (731, 47559), (767, 47490), (778, 47472), (791, 47451), (842, 47367), (889, 47298), (907, 47259), (925, 47229), (957, 47172), (989, 47112), (1000, 47082), (1011, 47049), (1025, 47007), (1096, 46851),

Gene: GTE5_60 Start: 49067, Stop: 47640, Start Num: 348
Candidate Starts for GTE5_60:
(6, 49982), (11, 49865), (14, 49847), (Start: 35 @49697 has 37 MA's), (115, 49472), (271, 49184), (309, 49130), (331, 49094), (348, 49067), (404, 48989), (409, 48977), (421, 48959), (450, 48914), (453, 48908), (468, 48869), (520, 48815), (538, 48776), (547, 48758), (618, 48611), (637, 48578), (649, 48548), (653, 48542), (668, 48515), (731, 48392), (767, 48323), (778, 48305), (842, 48200), (847, 48191), (856, 48173), (889, 48131), (907, 48092), (925, 48062), (957, 48005), (989, 47945), (1000, 47915), (1011, 47882), (1025, 47840), (1096, 47684),

Gene: GTE7_50 Start: 46958, Stop: 45327, Start Num: 144
Candidate Starts for GTE7_50:
(Start: 144 @46958 has 3 MA's), (149, 46946), (176, 46895), (179, 46889), (216, 46832), (321, 46691), (348, 46649), (Start: 357 @46637 has 5 MA's), (380, 46601), (382, 46598), (401, 46571), (435, 46523), (444, 46508), (510, 46400), (565, 46295), (572, 46280), (640, 46157), (668, 46109), (679, 46085), (688, 46067), (732, 46019), (755, 45968), (780, 45932), (791, 45914), (873, 45797), (927, 45746), (957, 45704), (989, 45644), (1004, 45602), (1020, 45551), (1030, 45527), (1107, 45365), (1119, 45344),

Gene: GTE8_60 Start: 49561, Stop: 47633, Start Num: 80
Candidate Starts for GTE8_60:
(8, 49903), (11, 49873), (18, 49798), (Start: 35 @49699 has 37 MA's), (Start: 80 @49561 has 2 MA's), (92, 49537), (Start: 200 @49288 has 9 MA's), (271, 49180), (345, 49066), (348, 49063), (409, 48973), (411, 48970), (450, 48910), (547, 48754), (554, 48745), (561, 48730), (618, 48607), (668, 48502), (679, 48478), (731, 48376), (755, 48322), (769, 48301), (842, 48187), (903, 48091), (907, 48085), (925, 48055), (948, 48016), (957, 47998), (989, 47938), (1011, 47875), (1041, 47794), (1080, 47710),

Gene: Gabriel_191 Start: 99728, Stop: 97866, Start Num: 119
Candidate Starts for Gabriel_191:
(Start: 119 @99728 has 185 MA's), (Start: 145 @99668 has 1 MA's), (Start: 182 @99599 has 1 MA's), (420, 99227), (443, 99185), (449, 99167), (506, 99083), (518, 99059), (530, 99035), (532, 99032), (555, 98987), (579, 98936), (595, 98906), (601, 98894), (661, 98765), (713, 98672), (717, 98666), (746, 98603), (748, 98597), (811, 98501), (814, 98495), (879, 98384), (921, 98312), (948, 98279), (951, 98270), (1004, 98150), (1010, 98132), (1047, 98033), (1048, 98030), (1058, 98009), (1083, 97955), (1107, 97919),

Gene: GaeCeo_42 Start: 31326, Stop: 29935, Start Num: 360
Candidate Starts for GaeCeo_42:
(Start: 360 @31326 has 155 MA's), (445, 31182), (448, 31176), (474, 31113), (518, 31032), (551, 30972), (562, 30945), (563, 30942), (567, 30936), (611, 30846), (634, 30804), (721, 30633), (732, 30612), (738, 30597), (743, 30585), (771, 30534), (836, 30477), (841, 30465), (932, 30315), (944, 30303), (973, 30243), (989, 30207), (992, 30201), (999, 30183), (1000, 30177), (1002, 30171), (1019, 30117), (1033, 30084), (1045, 30063), (1061, 30024),

Gene: Gagieri_70 Start: 52937, Stop: 50901, Start Num: 36
Candidate Starts for Gagieri_70:
(3, 53405), (4, 53399), (Start: 36 @52937 has 6 MA's), (75, 52829), (Start: 200 @52544 has 9 MA's), (Start: 243 @52487 has 5 MA's), (271, 52436), (281, 52421), (341, 52331), (348, 52319), (367, 52292), (409, 52226), (454, 52154), (472, 52112), (509, 52085), (543, 52013), (572, 51956), (668, 51776), (679, 51752), (710, 51689), (731, 51653), (778, 51566), (856, 51434), (888, 51395), (889, 51392), (957, 51260), (989, 51200), (1011, 51137), (1025, 51095), (1055, 51032),

Gene: GalacticEye_57 Start: 52570, Stop: 51158, Start Num: 294
Candidate Starts for GalacticEye_57:
(102, 52918), (154, 52789), (192, 52702), (Start: 194 @52699 has 3 MA's), (Start: 294 @52570 has 29 MA's), (321, 52525), (380, 52435), (382, 52432), (386, 52426), (401, 52405), (444, 52342), (510, 52234), (520, 52216), (565, 52129), (572, 52114), (591, 52072), (640, 51991), (668, 51943), (688, 51901), (695, 51883), (697, 51880), (732, 51853), (755, 51802), (780, 51766), (810, 51715), (873, 51631), (886, 51610), (999, 51454), (1000, 51448), (1004, 51436), (1052, 51310), (1107, 51196),

Gene: Gallia_72 Start: 56704, Stop: 54734, Start Num: 65
Candidate Starts for Gallia_72:

(Start: 65 @56704 has 8 MA's), (114, 56566), (186, 56410), (274, 56266), (341, 56164), (409, 56059), (509, 55918), (554, 55831), (649, 55624), (662, 55603), (686, 55555), (731, 55459), (745, 55426), (780, 55369), (784, 55360), (907, 55171), (918, 55150), (1002, 54988), (1011, 54961), (1031, 54898), (1041, 54880),

Gene: Gamgam_188 Start: 99701, Stop: 97839, Start Num: 119
Candidate Starts for Gamgam_188:
(Start: 119 @99701 has 185 MA's), (Start: 145 @99641 has 1 MA's), (Start: 182 @99572 has 1 MA's), (420, 99200), (443, 99158), (449, 99140), (506, 99056), (518, 99032), (530, 99008), (532, 99005), (555, 98960), (579, 98909), (595, 98879), (601, 98867), (661, 98738), (713, 98645), (717, 98639), (746, 98576), (748, 98570), (811, 98474), (814, 98468), (879, 98357), (921, 98285), (948, 98252), (951, 98243), (1004, 98123), (1010, 98105), (1047, 98006), (1048, 98003), (1058, 97982), (1083, 97928), (1107, 97892),

Gene: GardenB_40 Start: 31225, Stop: 29840, Start Num: 358
Candidate Starts for GardenB_40:
(338, 31255), (Start: 358 @31225 has 23 MA's), (436, 31102), (445, 31081), (448, 31075), (449, 31072), (503, 30958), (551, 30871), (562, 30844), (563, 30841), (611, 30745), (634, 30703), (721, 30532), (738, 30496), (836, 30376), (847, 30352), (932, 30217), (966, 30163), (992, 30103), (1000, 30079), (1002, 30073), (1007, 30061), (1045, 29965), (1068, 29911),

Gene: Garey24_41 Start: 30782, Stop: 29394, Start Num: 360
Candidate Starts for Garey24_41:
(220, 31004), (Start: 360 @30782 has 155 MA's), (445, 30638), (448, 30632), (449, 30629), (503, 30515), (518, 30488), (551, 30428), (562, 30401), (563, 30398), (611, 30302), (634, 30260), (721, 30089), (732, 30068), (738, 30053), (743, 30041), (769, 29993), (836, 29933), (932, 29774), (966, 29720), (1000, 29636), (1002, 29630), (1007, 29618), (1033, 29543), (1045, 29522), (1068, 29468), (1070, 29465), (1081, 29441),

Gene: Gargoyle_41 Start: 31123, Stop: 29735, Start Num: 360
Candidate Starts for Gargoyle_41:
(Start: 49 @31774 has 8 MA's), (187, 31420), (220, 31345), (Start: 360 @31123 has 155 MA's), (445, 30979), (448, 30973), (449, 30970), (503, 30856), (518, 30829), (551, 30769), (562, 30742), (563, 30739), (611, 30643), (634, 30601), (721, 30430), (732, 30409), (738, 30394), (769, 30334), (836, 30274), (887, 30178), (932, 30115), (966, 30061), (1000, 29977), (1002, 29971), (1007, 29959), (1045, 29863), (1068, 29809), (1070, 29806), (1081, 29782),

Gene: Garnacho_117 Start: 66839, Stop: 68410, Start Num: 244
Candidate Starts for Garnacho_117:
(Start: 244 @66839 has 6 MA's), (307, 66920), (313, 66926), (323, 66944), (325, 66947), (372, 67010), (458, 67157), (508, 67223), (538, 67286), (573, 67361), (620, 67463), (631, 67487), (656, 67538), (661, 67547), (668, 67562), (671, 67568), (674, 67574), (696, 67622), (713, 67637), (953, 68012), (1007, 68135), (1010, 68147), (1056, 68267), (1086, 68336),

Gene: Gelo_40 Start: 30809, Stop: 29421, Start Num: 360
Candidate Starts for Gelo_40:
(220, 31031), (Start: 360 @30809 has 155 MA's), (445, 30665), (448, 30659), (449, 30656), (503, 30542), (518, 30515), (551, 30455), (562, 30428), (563, 30425), (611, 30329), (634, 30287), (721, 30116), (732, 30095), (738, 30080), (743, 30068), (769, 30020), (836, 29960), (887, 29864), (932, 29801), (966, 29747), (1000, 29663), (1002, 29657), (1007, 29645), (1033, 29570), (1045, 29549), (1068, 29495), (1070, 29492), (1081, 29468),

Gene: Genamy16_63 Start: 39814, Stop: 41730, Start Num: 50

Candidate Starts for Genamy16_63:
(Start: 50 @39814 has 13 MA's), (Start: 51 @39817 has 50 MA's), (Start: 58 @39829 has 39 MA's), (75, 39877), (87, 39910), (150, 40051), (158, 40069), (173, 40096), (178, 40105), (Start: 222 @40177 has 29 MA's), (296, 40297), (335, 40360), (399, 40450), (418, 40477), (506, 40606), (518, 40630), (538, 40672), (543, 40684), (554, 40699), (562, 40720), (572, 40741), (581, 40762), (610, 40819), (618, 40837), (638, 40873), (662, 40915), (689, 40975), (745, 41071), (746, 41074), (881, 41251), (918, 41302), (969, 41392), (989, 41428), (992, 41434), (1010, 41488), (1022, 41527), (1066, 41629), (1072, 41644), (1083, 41665),

Gene: Gerri43_38 Start: 26376, Stop: 24544, Start Num: 64
Candidate Starts for Gerri43_38:
(Start: 64 @26376 has 19 MA's), (Start: 80 @26319 has 2 MA's), (173, 26118), (Start: 252 @25983 has 13 MA's), (331, 25848), (348, 25821), (447, 25764), (453, 25749), (472, 25695), (518, 25599), (521, 25593), (528, 25578), (552, 25533), (572, 25485), (581, 25464), (589, 25446), (616, 25395), (666, 25302), (671, 25290), (731, 25227), (777, 25155), (812, 25095), (842, 25074), (888, 25008), (900, 24990), (906, 24972), (907, 24969), (927, 24933), (989, 24825), (993, 24816), (1013, 24756), (1030, 24708),

Gene: Gershwin_40 Start: 30816, Stop: 29428, Start Num: 360
Candidate Starts for Gershwin_40:
(220, 31038), (Start: 360 @30816 has 155 MA's), (445, 30672), (448, 30666), (449, 30663), (503, 30549), (518, 30522), (551, 30462), (562, 30435), (563, 30432), (608, 30339), (611, 30336), (634, 30294), (721, 30123), (732, 30102), (738, 30087), (743, 30075), (769, 30027), (836, 29967), (887, 29871), (932, 29808), (966, 29754), (1000, 29670), (1002, 29664), (1007, 29652), (1033, 29577), (1045, 29556), (1068, 29502), (1070, 29499), (1081, 29475),

Gene: Ghobes_35 Start: 32092, Stop: 30689, Start Num: 349
Candidate Starts for Ghobes_35:
(214, 32332), (215, 32329), (275, 32218), (Start: 349 @32092 has 3 MA's), (400, 32017), (416, 31993), (418, 31990), (443, 31960), (444, 31957), (491, 31846), (542, 31771), (544, 31768), (566, 31717), (568, 31714), (582, 31687), (599, 31663), (610, 31636), (678, 31510), (680, 31507), (749, 31384), (752, 31381), (768, 31351), (769, 31348), (822, 31264), (847, 31219), (908, 31117), (939, 31072), (955, 31042), (957, 31039), (998, 30946), (1002, 30934), (1042, 30820), (1058, 30778),

Gene: Ghost_188 Start: 100414, Stop: 98552, Start Num: 119
Candidate Starts for Ghost_188:
(Start: 119 @100414 has 185 MA's), (Start: 145 @100354 has 1 MA's), (Start: 182 @100285 has 1 MA's), (420, 99913), (443, 99871), (449, 99853), (506, 99769), (518, 99745), (530, 99721), (532, 99718), (555, 99673), (579, 99622), (595, 99592), (601, 99580), (661, 99451), (713, 99358), (717, 99352), (746, 99289), (748, 99283), (811, 99187), (814, 99181), (879, 99070), (921, 98998), (948, 98965), (951, 98956), (1004, 98836), (1010, 98818), (1047, 98719), (1048, 98716), (1058, 98695), (1083, 98641), (1107, 98605),

Gene: GiJojo_116 Start: 68346, Stop: 69914, Start Num: 247
Candidate Starts for GiJojo_116:
(Start: 247 @68346 has 1 MA's), (307, 68424), (313, 68430), (325, 68451), (330, 68457), (Start: 357 @68493 has 5 MA's), (372, 68514), (413, 68577), (417, 68580), (Start: 430 @68595 has 1 MA's), (458, 68661), (508, 68727), (513, 68736), (573, 68865), (620, 68967), (631, 68991), (635, 69003), (656, 69042), (661, 69051), (674, 69078), (713, 69141), (881, 69411), (963, 69534), (1001, 69627), (1007, 69639), (1056, 69771), (1086, 69840), (1091, 69846), (1121, 69894),

Gene: Gibbin_62 Start: 41245, Stop: 43161, Start Num: 50
Candidate Starts for Gibbin_62:

(20, 41122), (21, 41131), (24, 41143), (28, 41176), (Start: 45 @41233 has 11 MA's), (Start: 50 @41245 has 13 MA's), (Start: 51 @41248 has 50 MA's), (Start: 58 @41260 has 39 MA's), (75, 41308), (87, 41341), (115, 41410), (158, 41500), (173, 41527), (178, 41536), (Start: 222 @41608 has 29 MA's), (271, 41695), (296, 41728), (335, 41791), (399, 41881), (506, 42037), (518, 42061), (538, 42103), (562, 42151), (572, 42172), (581, 42193), (610, 42250), (618, 42268), (638, 42304), (662, 42346), (689, 42406), (745, 42502), (746, 42505), (918, 42733), (969, 42823), (989, 42859), (992, 42865), (1010, 42919), (1022, 42958), (1066, 43060), (1072, 43075), (1083, 43096),

Gene: Gibbles_56 Start: 50443, Stop: 48953, Start Num: 243
Candidate Starts for Gibbles_56:
(Start: 243 @50443 has 5 MA's), (301, 50350), (306, 50341), (312, 50329), (321, 50314), (336, 50296), (382, 50239), (427, 50167), (428, 50164), (467, 50071), (499, 50038), (517, 50005), (518, 50002), (528, 49981), (565, 49912), (581, 49876), (626, 49789), (662, 49738), (668, 49726), (669, 49723), (686, 49693), (738, 49621), (742, 49612), (840, 49489), (842, 49483), (974, 49309), (994, 49264), (1004, 49234), (1112, 48982),

Gene: Gibson_70 Start: 50318, Stop: 48432, Start Num: 49
Candidate Starts for Gibson_70:
(Start: 49 @50318 has 8 MA's), (Start: 58 @50303 has 39 MA's), (83, 50240), (89, 50231), (137, 50126), (152, 50087), (161, 50063), (202, 49988), (Start: 222 @49964 has 29 MA's), (315, 49805), (341, 49766), (348, 49757), (418, 49649), (470, 49541), (562, 49388), (586, 49337), (616, 49277), (666, 49190), (668, 49187), (745, 49082), (748, 49073), (755, 49061), (815, 48962), (918, 48845), (926, 48833), (943, 48806), (990, 48716), (997, 48701), (1013, 48647), (1031, 48590), (1083, 48482), (1092, 48464),

Gene: Gilda_40 Start: 25935, Stop: 27842, Start Num: 58
Candidate Starts for Gilda_40:
(Start: 58 @25935 has 39 MA's), (83, 25998), (96, 26019), (115, 26073), (202, 26250), (Start: 235 @26295 has 1 MA's), (341, 26469), (348, 26478), (409, 26568), (440, 26625), (539, 26811), (610, 26946), (616, 26958), (639, 26991), (731, 27120), (796, 27237), (856, 27312), (987, 27546), (990, 27549), (1010, 27609), (1044, 27699), (1058, 27729), (1074, 27771), (1102, 27822),

Gene: Gimesa_67 Start: 47832, Stop: 49592, Start Num: 188
Candidate Starts for Gimesa_67:
(Start: 188 @47832 has 10 MA's), (Start: 232 @47901 has 1 MA's), (292, 47997), (300, 48006), (348, 48087), (378, 48132), (469, 48309), (506, 48333), (530, 48381), (561, 48441), (565, 48453), (596, 48519), (655, 48642), (668, 48666), (679, 48690), (731, 48894), (745, 48927), (751, 48942), (778, 48981), (780, 48984), (784, 48993), (842, 49062), (933, 49194), (989, 49317), (990, 49320), (1000, 49347), (1010, 49377), (1012, 49383), (1013, 49386), (1018, 49404), (1022, 49416), (1083, 49551), (1098, 49581),

Gene: Gisselle_25 Start: 20615, Stop: 22009, Start Num: 333
Candidate Starts for Gisselle_25:
(Start: 333 @20615 has 73 MA's), (381, 20672), (448, 20777), (449, 20780), (484, 20864), (512, 20897), (542, 20951), (544, 20954), (588, 21044), (607, 21080), (617, 21101), (634, 21134), (640, 21155), (730, 21287), (740, 21314), (763, 21353), (778, 21380), (798, 21413), (804, 21428), (814, 21437), (840, 21482), (858, 21518), (910, 21599), (926, 21623), (939, 21641), (944, 21653), (975, 21713), (983, 21737), (988, 21743), (989, 21746), (997, 21764), (998, 21767), (1007, 21791), (1009, 21800), (1038, 21887), (1065, 21938), (1084, 21977),

Gene: Giuseppe_53 Start: 39718, Stop: 41661, Start Num: 51
Candidate Starts for Giuseppe_53:

(Start: 51 @39718 has 50 MA's), (66, 39745), (88, 39817), (107, 39871), (140, 39931), (147, 39949), (150, 39958), (177, 40009), (195, 40051), (Start: 222 @40087 has 29 MA's), (271, 40174), (331, 40267), (341, 40282), (354, 40303), (433, 40405), (447, 40438), (458, 40462), (509, 40522), (554, 40609), (587, 40684), (639, 40774), (668, 40825), (669, 40828), (720, 40918), (731, 40936), (745, 40969), (778, 41023), (784, 41035), (796, 41053), (842, 41116), (903, 41200), (969, 41317), (989, 41365), (1011, 41428), (1041, 41512),

Gene: Gizmo_193 Start: 103049, Stop: 101187, Start Num: 119
Candidate Starts for Gizmo_193:
(Start: 119 @103049 has 185 MA's), (Start: 145 @102989 has 1 MA's), (Start: 182 @102920 has 1 MA's), (420, 102548), (443, 102506), (449, 102488), (506, 102404), (518, 102380), (530, 102356), (532, 102353), (555, 102308), (579, 102257), (595, 102227), (601, 102215), (661, 102086), (713, 101993), (717, 101987), (746, 101924), (748, 101918), (811, 101822), (814, 101816), (879, 101705), (921, 101633), (948, 101600), (951, 101591), (1004, 101471), (1010, 101453), (1047, 101354), (1048, 101351), (1058, 101330), (1083, 101276), (1107, 101240),

Gene: Glamour_40 Start: 31091, Stop: 29679, Start Num: 360
Candidate Starts for Glamour_40:
(Start: 360 @31091 has 155 MA's), (384, 31061), (Start: 388 @31055 has 1 MA's), (411, 31022), (503, 30830), (518, 30803), (551, 30743), (562, 30716), (563, 30713), (583, 30671), (611, 30617), (634, 30575), (686, 30461), (721, 30404), (732, 30383), (738, 30368), (743, 30356), (748, 30344), (750, 30341), (763, 30323), (809, 30242), (836, 30206), (862, 30152), (887, 30110), (907, 30080), (923, 30056), (930, 30050), (958, 30008), (989, 29939), (999, 29915), (1000, 29909), (1002, 29903), (1007, 29891), (1045, 29795), (1048, 29786), (1058, 29768), (1061, 29756), (1083, 29711),

Gene: Glenn_29 Start: 22157, Stop: 23557, Start Num: 333
Candidate Starts for Glenn_29:
(Start: 333 @22157 has 73 MA's), (381, 22220), (448, 22325), (449, 22328), (484, 22412), (512, 22445), (540, 22496), (544, 22502), (582, 22583), (584, 22586), (588, 22592), (607, 22628), (616, 22646), (617, 22649), (634, 22682), (640, 22703), (646, 22721), (677, 22754), (730, 22835), (740, 22862), (758, 22892), (763, 22901), (778, 22928), (798, 22961), (804, 22976), (840, 23030), (849, 23051), (857, 23063), (863, 23075), (990, 23297), (994, 23306), (997, 23312), (1009, 23348), (1030, 23408), (1038, 23435), (1084, 23525),

Gene: GlutenPhree_188 Start: 99712, Stop: 97850, Start Num: 119
Candidate Starts for GlutenPhree_188:
(Start: 119 @99712 has 185 MA's), (Start: 145 @99652 has 1 MA's), (Start: 182 @99583 has 1 MA's), (420, 99211), (443, 99169), (449, 99151), (506, 99067), (518, 99043), (530, 99019), (532, 99016), (555, 98971), (579, 98920), (595, 98890), (601, 98878), (661, 98749), (713, 98656), (717, 98650), (746, 98587), (748, 98581), (811, 98485), (814, 98479), (879, 98368), (921, 98296), (948, 98263), (951, 98254), (1004, 98134), (1010, 98116), (1047, 98017), (1048, 98014), (1058, 97993), (1083, 97939), (1107, 97903),

Gene: Gmala1_55 Start: 48612, Stop: 47071, Start Num: 239
Candidate Starts for Gmala1_55:
(239, 48612), (306, 48507), (321, 48480), (Start: 362 @48426 has 4 MA's), (380, 48408), (418, 48348), (424, 48339), (454, 48288), (464, 48264), (468, 48252), (472, 48246), (510, 48201), (518, 48186), (528, 48165), (530, 48162), (578, 48063), (589, 48036), (640, 47952), (655, 47928), (668, 47904), (686, 47871), (742, 47790), (776, 47742), (786, 47727), (850, 47634), (870, 47607), (871, 47604), (916, 47520), (938, 47484), (946, 47469), (972, 47424), (1002, 47352), (1004, 47346), (1058, 47205), (1112, 47106), (1114, 47103),

Gene: GodonK_184 Start: 93693, Stop: 91774, Start Num: 64

Candidate Starts for GodonK_184:
(Start: 64 @93693 has 19 MA's), (75, 93651), (123, 93537), (158, 93462), (196, 93393), (229, 93324), (453, 93051), (460, 93033), (469, 93009), (487, 92970), (578, 92790), (618, 92706), (636, 92682), (666, 92622), (671, 92610), (686, 92583), (745, 92514), (746, 92511), (862, 92295), (869, 92277), (871, 92271), (903, 92205), (926, 92166), (933, 92154), (949, 92127), (993, 92046), (1004, 92013), (1011, 91992), (1021, 91959), (1044, 91908), (1052, 91890),

Gene: GoingMerry_41 Start: 31128, Stop: 29740, Start Num: 360
Candidate Starts for GoingMerry_41:
(187, 31425), (220, 31350), (Start: 360 @31128 has 155 MA's), (445, 30984), (448, 30978), (449, 30975), (503, 30861), (518, 30834), (551, 30774), (562, 30747), (563, 30744), (611, 30648), (634, 30606), (721, 30435), (732, 30414), (743, 30387), (769, 30339), (836, 30279), (932, 30120), (966, 30066), (1000, 29982), (1002, 29976), (1007, 29964), (1045, 29868), (1068, 29814), (1070, 29811), (1081, 29787),

Gene: Golden_39 Start: 30647, Stop: 29256, Start Num: 358
Candidate Starts for Golden_39:
(Start: 358 @30647 has 23 MA's), (Start: 362 @30644 has 4 MA's), (384, 30614), (445, 30506), (449, 30497), (472, 30443), (515, 30362), (551, 30296), (563, 30266), (585, 30221), (611, 30170), (715, 29966), (721, 29957), (738, 29918), (743, 29906), (748, 29894), (750, 29891), (770, 29855), (782, 29846), (809, 29831), (836, 29795), (841, 29783), (847, 29771), (891, 29696), (932, 29636), (989, 29528), (993, 29519), (999, 29504), (1000, 29498), (1002, 29492), (1099, 29270),

Gene: GoldenEssence_87 Start: 74530, Stop: 76368, Start Num: 60
Candidate Starts for GoldenEssence_87:
(Start: 60 @74530 has 17 MA's), (123, 74689), (167, 74785), (224, 74845), (Start: 243 @74875 has 5 MA's), (296, 74965), (314, 74995), (344, 75046), (446, 75106), (638, 75502), (647, 75523), (671, 75568), (729, 75625), (731, 75631), (745, 75664), (750, 75676), (757, 75688), (767, 75703), (784, 75733), (807, 75772), (852, 75829), (869, 75835), (888, 75868), (925, 75937), (970, 76021), (1018, 76138), (1093, 76312), (1118, 76354),

Gene: GoldenSnow_188 Start: 100879, Stop: 99017, Start Num: 119
Candidate Starts for GoldenSnow_188:
(Start: 119 @100879 has 185 MA's), (Start: 145 @100819 has 1 MA's), (Start: 182 @100750 has 1 MA's), (420, 100378), (443, 100336), (449, 100318), (506, 100234), (518, 100210), (530, 100186), (532, 100183), (555, 100138), (579, 100087), (595, 100057), (601, 100045), (661, 99916), (713, 99823), (717, 99817), (746, 99754), (748, 99748), (811, 99652), (814, 99646), (879, 99535), (921, 99463), (948, 99430), (951, 99421), (1004, 99301), (1010, 99283), (1047, 99184), (1048, 99181), (1058, 99160), (1083, 99106), (1107, 99070),

Gene: GoneGirl_41 Start: 31218, Stop: 29833, Start Num: 358
Candidate Starts for GoneGirl_41:
(338, 31248), (Start: 358 @31218 has 23 MA's), (436, 31095), (445, 31074), (448, 31068), (449, 31065), (503, 30951), (551, 30864), (562, 30837), (563, 30834), (611, 30738), (634, 30696), (721, 30525), (738, 30489), (836, 30369), (847, 30345), (932, 30210), (966, 30156), (992, 30096), (1000, 30072), (1002, 30066), (1007, 30054), (1045, 29958), (1068, 29904),

Gene: Goodman_34 Start: 23371, Stop: 24798, Start Num: 339
Candidate Starts for Goodman_34:
(Start: 339 @23371 has 21 MA's), (474, 23587), (524, 23689), (542, 23728), (571, 23791), (599, 23836), (607, 23857), (651, 23956), (749, 24124), (778, 24172), (791, 24193), (804, 24220), (824, 24247), (840, 24277), (842, 24283), (860, 24319), (914, 24397), (963, 24481), (973, 24499), (975, 24502), (1009, 24589), (1013, 24601), (1026, 24640), (1038, 24676), (1042, 24682), (1067, 24733),

(1078, 24757),

Gene: GordDuk1_59 Start: 49176, Stop: 47635, Start Num: 239
Candidate Starts for GordDuk1_59:
(239, 49176), (306, 49071), (321, 49044), (Start: 362 @48990 has 4 MA's), (380, 48972), (418, 48912), (424, 48903), (454, 48852), (464, 48828), (468, 48816), (472, 48810), (510, 48765), (518, 48750), (528, 48729), (530, 48726), (578, 48627), (589, 48600), (640, 48516), (655, 48492), (668, 48468), (686, 48435), (688, 48426), (732, 48378), (742, 48354), (776, 48306), (850, 48198), (870, 48171), (916, 48084), (938, 48048), (946, 48033), (972, 47988), (1002, 47916), (1004, 47910), (1112, 47670), (1114, 47667),

Gene: GordTnk2_60 Start: 49330, Stop: 47789, Start Num: 239
Candidate Starts for GordTnk2_60:
(239, 49330), (306, 49225), (321, 49198), (Start: 362 @49144 has 4 MA's), (380, 49126), (418, 49066), (424, 49057), (454, 49006), (464, 48982), (468, 48970), (472, 48964), (510, 48919), (518, 48904), (528, 48883), (530, 48880), (578, 48781), (589, 48754), (640, 48670), (655, 48646), (668, 48622), (686, 48589), (742, 48508), (776, 48460), (850, 48352), (870, 48325), (871, 48322), (916, 48238), (938, 48202), (946, 48187), (972, 48142), (1002, 48070), (1004, 48064), (1058, 47923), (1112, 47824), (1114, 47821),

Gene: Gorgeous_70 Start: 47020, Stop: 45626, Start Num: 252
Candidate Starts for Gorgeous_70:
(Start: 252 @47020 has 13 MA's), (311, 46951), (363, 46876), (381, 46858), (403, 46828), (447, 46747), (527, 46597), (602, 46453), (622, 46414), (677, 46300), (719, 46249), (743, 46228), (760, 46198), (767, 46183), (773, 46171), (848, 46090), (897, 46042), (915, 46015), (927, 45994), (976, 45910), (1005, 45844), (1084, 45655), (1088, 45643),

Gene: Gorko_58 Start: 51458, Stop: 49926, Start Num: 222
Candidate Starts for Gorko_58:
(102, 51713), (121, 51662), (142, 51611), (165, 51557), (181, 51527), (Start: 194 @51494 has 3 MA's), (201, 51485), (Start: 222 @51458 has 29 MA's), (321, 51290), (348, 51248), (380, 51200), (Start: 388 @51188 has 1 MA's), (396, 51176), (401, 51170), (412, 51149), (435, 51122), (520, 50981), (565, 50894), (572, 50879), (578, 50867), (591, 50837), (617, 50786), (639, 50759), (668, 50708), (695, 50648), (697, 50645), (732, 50618), (750, 50576), (780, 50531), (873, 50396), (883, 50381), (894, 50360), (972, 50279), (974, 50276), (999, 50219), (1000, 50213), (1002, 50207), (1004, 50201), (1030, 50126), (1047, 50087), (1052, 50075), (1054, 50072), (1097, 49979), (1107, 49964), (1119, 49943),

Gene: GourdThymes_59 Start: 52332, Stop: 50800, Start Num: 222
Candidate Starts for GourdThymes_59:
(102, 52587), (121, 52536), (142, 52485), (165, 52431), (181, 52401), (Start: 194 @52368 has 3 MA's), (201, 52359), (Start: 222 @52332 has 29 MA's), (321, 52164), (348, 52122), (380, 52074), (Start: 388 @52062 has 1 MA's), (396, 52050), (401, 52044), (412, 52023), (435, 51996), (520, 51855), (565, 51768), (572, 51753), (578, 51741), (591, 51711), (617, 51660), (639, 51633), (668, 51582), (679, 51558), (688, 51540), (695, 51522), (697, 51519), (732, 51492), (750, 51450), (780, 51405), (873, 51270), (883, 51255), (894, 51234), (957, 51177), (972, 51153), (974, 51150), (999, 51093), (1000, 51087), (1002, 51081), (1004, 51075), (1020, 51024), (1030, 51000), (1047, 50961), (1052, 50949), (1054, 50946), (1097, 50853), (1107, 50838), (1119, 50817),

Gene: Grasshills_195 Start: 103320, Stop: 101458, Start Num: 119
Candidate Starts for Grasshills_195:
(Start: 119 @103320 has 185 MA's), (Start: 145 @103260 has 1 MA's), (Start: 182 @103191 has 1 MA's), (420, 102819), (443, 102777), (449, 102759), (506, 102675), (518, 102651), (530, 102627), (532, 102624), (555, 102579), (579, 102528), (595, 102498), (601, 102486), (661, 102357), (713,

102264), (717, 102258), (746, 102195), (748, 102189), (811, 102093), (814, 102087), (879, 101976), (888, 101961), (921, 101904), (948, 101871), (951, 101862), (1004, 101742), (1010, 101724), (1047, 101625), (1048, 101622), (1058, 101601), (1083, 101547), (1107, 101511),

Gene: Graynor_30 Start: 22151, Stop: 23545, Start Num: 333
Candidate Starts for Graynor_30:
(Start: 333 @22151 has 73 MA's), (381, 22208), (448, 22313), (484, 22400), (542, 22487), (544, 22490), (588, 22580), (607, 22616), (612, 22625), (616, 22634), (640, 22691), (646, 22709), (677, 22742), (730, 22823), (740, 22850), (778, 22916), (798, 22949), (804, 22964), (814, 22973), (863, 23063), (908, 23132), (926, 23159), (939, 23177), (944, 23189), (988, 23279), (990, 23285), (994, 23294), (997, 23300), (1009, 23336), (1038, 23423), (1065, 23474), (1067, 23480), (1084, 23513), (1094, 23537),

Gene: Greely_181 Start: 99229, Stop: 97382, Start Num: 122
Candidate Starts for Greely_181:
(Start: 122 @99229 has 2 MA's), (Start: 131 @99208 has 2 MA's), (157, 99151), (180, 99106), (203, 99055), (214, 99028), (278, 98911), (415, 98728), (420, 98722), (425, 98713), (506, 98578), (508, 98575), (590, 98410), (595, 98401), (601, 98389), (640, 98299), (650, 98278), (658, 98266), (696, 98182), (713, 98167), (717, 98161), (736, 98143), (743, 98128), (767, 98086), (804, 98026), (814, 98011), (815, 98008), (848, 97951), (886, 97891), (948, 97798), (951, 97789), (968, 97756), (975, 97741), (1010, 97651), (1048, 97549), (1058, 97531), (1073, 97495), (1087, 97465), (1115, 97426), (1120, 97414),

Gene: GreenHearts_29 Start: 22236, Stop: 23627, Start Num: 333
Candidate Starts for GreenHearts_29:
(Start: 333 @22236 has 73 MA's), (406, 22323), (448, 22395), (449, 22398), (477, 22464), (484, 22482), (486, 22488), (512, 22515), (544, 22572), (566, 22623), (588, 22662), (607, 22698), (616, 22716), (634, 22752), (640, 22773), (646, 22791), (677, 22824), (699, 22863), (730, 22905), (740, 22932), (753, 22956), (773, 22992), (778, 22998), (798, 23031), (804, 23046), (814, 23055), (840, 23100), (857, 23133), (858, 23136), (914, 23220), (926, 23241), (934, 23253), (939, 23259), (944, 23271), (988, 23361), (989, 23364), (990, 23367), (997, 23382), (998, 23385), (1007, 23409), (1009, 23418), (1038, 23505), (1065, 23556), (1084, 23595), (1094, 23619),

Gene: GreenIvy_40 Start: 29681, Stop: 28254, Start Num: 360
Candidate Starts for GreenIvy_40:
(202, 29951), (211, 29927), (223, 29900), (Start: 250 @29852 has 29 MA's), (269, 29813), (Start: 360 @29681 has 155 MA's), (380, 29651), (384, 29645), (448, 29531), (449, 29528), (450, 29525), (562, 29291), (563, 29288), (686, 29033), (717, 28982), (721, 28976), (743, 28928), (763, 28895), (836, 28781), (840, 28772), (862, 28727), (865, 28721), (882, 28694), (932, 28622), (973, 28550), (989, 28514), (993, 28505), (999, 28490), (1000, 28484), (1007, 28466), (1019, 28424), (1048, 28361), (1081, 28289),

Gene: Greenbelt_68 Start: 46451, Stop: 44553, Start Num: 44
Candidate Starts for Greenbelt_68:
(33, 46496), (Start: 44 @46451 has 1 MA's), (Start: 47 @46445 has 4 MA's), (Start: 53 @46433 has 9 MA's), (89, 46355), (115, 46289), (123, 46271), (137, 46250), (155, 46205), (161, 46187), (178, 46157), (202, 46112), (Start: 222 @46088 has 29 MA's), (298, 45962), (345, 45887), (348, 45884), (371, 45851), (394, 45818), (418, 45779), (471, 45668), (506, 45629), (543, 45554), (616, 45407), (639, 45374), (668, 45317), (745, 45212), (755, 45191), (870, 45050), (926, 44960), (946, 44927), (997, 44828), (1010, 44783), (1013, 44774), (1068, 44639), (1102, 44573), (1104, 44570),

Gene: Greenhouse_29 Start: 22160, Stop: 23551, Start Num: 333
Candidate Starts for Greenhouse_29:

(273, 22058), (297, 22100), (312, 22127), (Start: 333 @22160 has 73 MA's), (406, 22247), (448, 22319), (449, 22322), (477, 22388), (484, 22406), (486, 22412), (512, 22439), (544, 22496), (566, 22547), (570, 22553), (571, 22556), (588, 22586), (607, 22622), (616, 22640), (634, 22676), (640, 22697), (646, 22715), (699, 22787), (730, 22829), (740, 22856), (753, 22880), (773, 22916), (778, 22922), (798, 22955), (804, 22970), (814, 22979), (857, 23057), (858, 23060), (914, 23144), (926, 23165), (934, 23177), (939, 23183), (944, 23195), (988, 23285), (997, 23306), (998, 23309), (1007, 23333), (1009, 23342), (1038, 23429), (1065, 23480), (1084, 23519), (1094, 23543),

Gene: GretelLyn_60 Start: 41292, Stop: 43208, Start Num: 50
Candidate Starts for GretelLyn_60:
(Start: 50 @41292 has 13 MA's), (Start: 51 @41295 has 50 MA's), (Start: 58 @41307 has 39 MA's), (75, 41355), (87, 41388), (115, 41457), (158, 41547), (173, 41574), (178, 41583), (Start: 222 @41655 has 29 MA's), (271, 41742), (296, 41775), (335, 41838), (399, 41928), (418, 41955), (506, 42084), (518, 42108), (538, 42150), (562, 42198), (572, 42219), (581, 42240), (610, 42297), (638, 42351), (662, 42393), (689, 42453), (745, 42549), (746, 42552), (881, 42729), (918, 42780), (969, 42870), (989, 42906), (992, 42912), (1010, 42966), (1022, 43005), (1066, 43107), (1072, 43122), (1083, 43143),

Gene: Greys_41 Start: 31116, Stop: 29728, Start Num: 360
Candidate Starts for Greys_41:
(Start: 49 @31767 has 8 MA's), (187, 31413), (220, 31338), (Start: 360 @31116 has 155 MA's), (445, 30972), (448, 30966), (449, 30963), (503, 30849), (518, 30822), (551, 30762), (562, 30735), (563, 30732), (611, 30636), (634, 30594), (721, 30423), (732, 30402), (743, 30375), (769, 30327), (836, 30267), (932, 30108), (966, 30054), (1000, 29970), (1002, 29964), (1007, 29952), (1045, 29856), (1068, 29802), (1070, 29799), (1081, 29775),

Gene: GrootJr_74 Start: 56101, Stop: 54035, Start Num: 35
Candidate Starts for GrootJr_74:
(8, 56305), (9, 56293), (11, 56275), (Start: 35 @56101 has 37 MA's), (Start: 80 @55963 has 2 MA's), (92, 55939), (178, 55735), (Start: 200 @55690 has 9 MA's), (271, 55582), (345, 55468), (348, 55465), (409, 55375), (411, 55372), (450, 55312), (538, 55174), (547, 55156), (561, 55132), (618, 55009), (668, 54904), (731, 54778), (755, 54724), (834, 54598), (842, 54589), (854, 54565), (903, 54493), (907, 54487), (925, 54457), (957, 54400), (989, 54340), (1011, 54277), (1041, 54196),

Gene: Grungle_173 Start: 98451, Stop: 96589, Start Num: 119
Candidate Starts for Grungle_173:
(Start: 119 @98451 has 185 MA's), (Start: 145 @98391 has 1 MA's), (Start: 182 @98322 has 1 MA's), (420, 97950), (443, 97908), (449, 97890), (506, 97806), (518, 97782), (530, 97758), (532, 97755), (555, 97710), (579, 97659), (595, 97629), (601, 97617), (661, 97488), (713, 97395), (717, 97389), (746, 97326), (748, 97320), (811, 97224), (814, 97218), (879, 97107), (921, 97035), (948, 97002), (951, 96993), (1004, 96873), (1010, 96855), (1047, 96756), (1048, 96753), (1058, 96732), (1083, 96678), (1107, 96642),

Gene: Gubbabump_40 Start: 30796, Stop: 29408, Start Num: 360
Candidate Starts for Gubbabump_40:
(Start: 49 @31447 has 8 MA's), (187, 31093), (220, 31018), (Start: 360 @30796 has 155 MA's), (445, 30652), (448, 30646), (449, 30643), (503, 30529), (518, 30502), (551, 30442), (562, 30415), (563, 30412), (611, 30316), (634, 30274), (721, 30103), (732, 30082), (738, 30067), (769, 30007), (836, 29947), (887, 29851), (932, 29788), (966, 29734), (1000, 29650), (1002, 29644), (1007, 29632), (1045, 29536), (1068, 29482), (1070, 29479), (1081, 29455),

Gene: Guetzie_40 Start: 30629, Stop: 29241, Start Num: 362
Candidate Starts for Guetzie_40:

(Start: 358 @30632 has 23 MA's), (Start: 362 @30629 has 4 MA's), (384, 30599), (445, 30491), (449, 30482), (472, 30428), (515, 30347), (551, 30281), (563, 30251), (585, 30206), (611, 30155), (715, 29951), (721, 29942), (738, 29903), (743, 29891), (748, 29879), (750, 29876), (770, 29840), (782, 29831), (809, 29816), (836, 29780), (841, 29768), (847, 29756), (891, 29681), (932, 29621), (989, 29513), (993, 29504), (999, 29489), (1000, 29483), (1002, 29477), (1099, 29255),

Gene: Guillaume_57 Start: 52620, Stop: 51208, Start Num: 294
Candidate Starts for Guillaume_57:
(102, 52968), (154, 52839), (Start: 194 @52749 has 3 MA's), (Start: 294 @52620 has 29 MA's), (321, 52575), (380, 52485), (382, 52482), (386, 52476), (401, 52455), (444, 52392), (510, 52284), (520, 52266), (565, 52179), (572, 52164), (591, 52122), (640, 52041), (668, 51993), (688, 51951), (695, 51933), (697, 51930), (732, 51903), (755, 51852), (780, 51816), (810, 51765), (873, 51681), (886, 51660), (999, 51504), (1000, 51498), (1004, 51486), (1052, 51360), (1107, 51246),

Gene: Gumball_52 Start: 39923, Stop: 41866, Start Num: 51
Candidate Starts for Gumball_52:
(32, 39860), (Start: 51 @39923 has 50 MA's), (66, 39950), (88, 40022), (107, 40076), (140, 40136), (150, 40163), (177, 40214), (195, 40256), (Start: 222 @40292 has 29 MA's), (271, 40379), (331, 40472), (341, 40487), (354, 40508), (433, 40610), (447, 40643), (458, 40667), (509, 40727), (554, 40814), (587, 40889), (639, 40979), (668, 41030), (669, 41033), (720, 41123), (731, 41141), (745, 41174), (784, 41240), (796, 41258), (842, 41321), (903, 41405), (969, 41522), (989, 41570), (1011, 41633), (1041, 41717),

Gene: Guwapp_183 Start: 98942, Stop: 97080, Start Num: 119
Candidate Starts for Guwapp_183:
(Start: 119 @98942 has 185 MA's), (Start: 145 @98882 has 1 MA's), (Start: 182 @98813 has 1 MA's), (420, 98441), (443, 98399), (449, 98381), (506, 98297), (518, 98273), (530, 98249), (532, 98246), (555, 98201), (579, 98150), (595, 98120), (601, 98108), (661, 97979), (713, 97886), (717, 97880), (746, 97817), (748, 97811), (811, 97715), (814, 97709), (879, 97598), (921, 97526), (948, 97493), (951, 97484), (1004, 97364), (1010, 97346), (1047, 97247), (1048, 97244), (1058, 97223), (1083, 97169), (1107, 97133),

Gene: Hager_41 Start: 25422, Stop: 27329, Start Num: 58
Candidate Starts for Hager_41:
(17, 25248), (Start: 58 @25422 has 39 MA's), (83, 25485), (96, 25506), (115, 25560), (193, 25722), (202, 25737), (Start: 235 @25782 has 1 MA's), (341, 25956), (348, 25965), (409, 26055), (411, 26058), (433, 26097), (440, 26112), (447, 26130), (539, 26298), (587, 26391), (593, 26406), (610, 26433), (616, 26445), (639, 26478), (731, 26607), (796, 26724), (969, 26997), (990, 27036), (1010, 27096), (1044, 27186), (1058, 27216), (1074, 27258), (1102, 27309),

Gene: Hail2Pitt_56 Start: 53096, Stop: 51684, Start Num: 294
Candidate Starts for Hail2Pitt_56:
(102, 53444), (154, 53315), (192, 53228), (Start: 194 @53225 has 3 MA's), (Start: 294 @53096 has 29 MA's), (321, 53051), (380, 52961), (382, 52958), (386, 52952), (401, 52931), (444, 52868), (510, 52760), (520, 52742), (565, 52655), (572, 52640), (591, 52598), (640, 52517), (668, 52469), (688, 52427), (695, 52409), (697, 52406), (732, 52379), (755, 52328), (780, 52292), (810, 52241), (873, 52157), (886, 52136), (999, 51980), (1000, 51974), (1004, 51962), (1052, 51836), (1107, 51722),

Gene: HairyMan_37 Start: 30138, Stop: 28738, Start Num: 360
Candidate Starts for HairyMan_37:
(327, 30183), (Start: 358 @30141 has 23 MA's), (Start: 360 @30138 has 155 MA's), (364, 30132), (445, 29994), (448, 29988), (449, 29985), (473, 29928), (518, 29844), (563, 29754), (611, 29658), (630, 29625), (634, 29616), (674, 29523), (721, 29445), (732, 29424), (743, 29397), (836, 29286),

(885, 29193), (891, 29187), (958, 29088), (985, 29025), (989, 29019), (999, 28995), (1000, 28989), (1002, 28983), (1007, 28971), (1045, 28875), (1068, 28821),

Gene: Halldule_180 Start: 98847, Stop: 96985, Start Num: 119
Candidate Starts for Halldule_180:
(Start: 119 @98847 has 185 MA's), (Start: 145 @98787 has 1 MA's), (Start: 182 @98718 has 1 MA's), (420, 98346), (443, 98304), (449, 98286), (506, 98202), (518, 98178), (530, 98154), (532, 98151), (555, 98106), (579, 98055), (595, 98025), (601, 98013), (661, 97884), (713, 97791), (717, 97785), (746, 97722), (748, 97716), (811, 97620), (814, 97614), (879, 97503), (921, 97431), (948, 97398), (951, 97389), (1004, 97269), (1010, 97251), (1047, 97152), (1048, 97149), (1058, 97128), (1083, 97074), (1107, 97038),

Gene: Hamlet_40 Start: 31266, Stop: 29875, Start Num: 358
Candidate Starts for Hamlet_40:
(275, 31368), (277, 31365), (Start: 279 @31362 has 1 MA's), (Start: 358 @31266 has 23 MA's), (445, 31119), (448, 31113), (449, 31110), (503, 30996), (518, 30969), (551, 30909), (562, 30882), (563, 30879), (611, 30783), (634, 30741), (721, 30570), (732, 30549), (743, 30522), (836, 30414), (887, 30318), (966, 30201), (973, 30183), (1000, 30117), (1002, 30111), (1007, 30099), (1045, 30003), (1068, 29949), (1070, 29946), (1081, 29922), (1098, 29892),

Gene: HanSolo_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for HanSolo_40:
(Start: 49 @31454 has 8 MA's), (187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: HankSprout_41 Start: 30683, Stop: 29295, Start Num: 360
Candidate Starts for HankSprout_41:
(220, 30905), (Start: 360 @30683 has 155 MA's), (445, 30539), (448, 30533), (449, 30530), (503, 30416), (518, 30389), (551, 30329), (562, 30302), (563, 30299), (611, 30203), (634, 30161), (684, 30050), (721, 29990), (732, 29969), (738, 29954), (769, 29894), (836, 29834), (887, 29738), (932, 29675), (966, 29621), (1000, 29537), (1002, 29531), (1007, 29519), (1045, 29423), (1068, 29369), (1070, 29366), (1081, 29342),

Gene: Harambe_57 Start: 52887, Stop: 51475, Start Num: 294
Candidate Starts for Harambe_57:
(102, 53235), (154, 53106), (192, 53019), (Start: 194 @53016 has 3 MA's), (Start: 294 @52887 has 29 MA's), (321, 52842), (380, 52752), (382, 52749), (386, 52743), (401, 52722), (444, 52659), (510, 52551), (520, 52533), (565, 52446), (572, 52431), (591, 52389), (640, 52308), (668, 52260), (688, 52218), (695, 52200), (697, 52197), (732, 52170), (755, 52119), (780, 52083), (810, 52032), (873, 51948), (886, 51927), (999, 51771), (1000, 51765), (1004, 51753), (1052, 51627), (1107, 51513),

Gene: Hasitha_40 Start: 29084, Stop: 27657, Start Num: 360
Candidate Starts for Hasitha_40:
(Start: 360 @29084 has 155 MA's), (380, 29054), (384, 29048), (448, 28934), (449, 28931), (562, 28694), (563, 28691), (686, 28436), (717, 28385), (721, 28379), (743, 28331), (763, 28298), (769, 28283), (814, 28211), (836, 28184), (840, 28175), (862, 28130), (865, 28124), (882, 28097), (932, 28025), (973, 27953), (989, 27917), (993, 27908), (999, 27893), (1000, 27887), (1007, 27869), (1019, 27827), (1048, 27764), (1076, 27701), (1081, 27692),

Gene: Haunter_40 Start: 25327, Stop: 27234, Start Num: 58

Candidate Starts for Haunter_40:
(Start: 58 @25327 has 39 MA's), (83, 25390), (96, 25411), (115, 25465), (138, 25507), (202, 25642), (Start: 235 @25687 has 1 MA's), (341, 25861), (348, 25870), (409, 25960), (440, 26017), (539, 26203), (610, 26338), (616, 26350), (639, 26383), (662, 26428), (731, 26512), (796, 26629), (969, 26902), (987, 26938), (990, 26941), (1010, 27001), (1044, 27091), (1058, 27121), (1074, 27163), (1102, 27214),

Gene: HavenFinLeoSun_42 Start: 31494, Stop: 30088, Start Num: 356
Candidate Starts for HavenFinLeoSun_42:
(Start: 356 @31494 has 2 MA's), (445, 31347), (448, 31341), (503, 31224), (518, 31197), (551, 31137), (562, 31110), (563, 31107), (565, 31104), (611, 31011), (634, 30969), (715, 30807), (721, 30798), (732, 30777), (735, 30771), (809, 30678), (836, 30642), (847, 30618), (891, 30543), (966, 30429), (992, 30369), (1000, 30345), (1002, 30339), (1007, 30327), (1058, 30204), (1068, 30177), (1081, 30150),

Gene: Hawkeye_56 Start: 39560, Stop: 41506, Start Num: 51
Candidate Starts for Hawkeye_56:
(Start: 51 @39560 has 50 MA's), (77, 39638), (103, 39707), (107, 39716), (120, 39746), (140, 39776), (150, 39803), (156, 39815), (195, 39893), (202, 39905), (271, 40016), (296, 40049), (341, 40124), (402, 40202), (421, 40232), (439, 40268), (462, 40322), (509, 40373), (565, 40487), (617, 40595), (666, 40673), (668, 40676), (679, 40700), (686, 40712), (720, 40769), (727, 40775), (731, 40787), (739, 40808), (745, 40820), (767, 40856), (784, 40886), (796, 40904), (842, 40967), (903, 41051), (925, 41087), (950, 41132), (969, 41168), (989, 41216), (992, 41222), (1011, 41279), (1100, 41483), (1104, 41489), (1106, 41492),

Gene: HayZem_62 Start: 52710, Stop: 51079, Start Num: 144
Candidate Starts for HayZem_62:
(Start: 144 @52710 has 3 MA's), (149, 52698), (176, 52647), (179, 52641), (216, 52584), (321, 52443), (348, 52401), (Start: 357 @52389 has 5 MA's), (380, 52353), (382, 52350), (401, 52323), (Start: 430 @52287 has 1 MA's), (435, 52275), (444, 52260), (510, 52152), (565, 52047), (572, 52032), (640, 51909), (668, 51861), (679, 51837), (688, 51819), (732, 51771), (755, 51720), (780, 51684), (791, 51666), (873, 51549), (927, 51498), (957, 51456), (989, 51396), (1004, 51354), (1020, 51303), (1030, 51279), (1107, 51117), (1119, 51096),

Gene: Hello_57 Start: 52849, Stop: 51437, Start Num: 294
Candidate Starts for Hello_57:
(102, 53197), (154, 53068), (192, 52981), (Start: 194 @52978 has 3 MA's), (Start: 294 @52849 has 29 MA's), (321, 52804), (380, 52714), (382, 52711), (386, 52705), (401, 52684), (444, 52621), (510, 52513), (520, 52495), (565, 52408), (572, 52393), (591, 52351), (640, 52270), (668, 52222), (688, 52180), (695, 52162), (697, 52159), (732, 52132), (755, 52081), (780, 52045), (810, 51994), (873, 51910), (886, 51889), (999, 51733), (1000, 51727), (1004, 51715), (1052, 51589), (1107, 51475),

Gene: Helpful_56 Start: 40102, Stop: 42045, Start Num: 51
Candidate Starts for Helpful_56:
(30, 40033), (Start: 51 @40102 has 50 MA's), (66, 40129), (88, 40201), (107, 40255), (140, 40315), (147, 40333), (150, 40342), (177, 40393), (195, 40435), (Start: 222 @40471 has 29 MA's), (271, 40558), (331, 40651), (341, 40666), (354, 40687), (433, 40789), (447, 40822), (458, 40846), (509, 40906), (554, 40993), (587, 41068), (639, 41158), (668, 41209), (669, 41212), (720, 41302), (731, 41320), (745, 41353), (778, 41407), (784, 41419), (796, 41437), (842, 41500), (903, 41584), (969, 41701), (989, 41749), (1011, 41812), (1041, 41896),

Gene: Henoccus_42 Start: 30892, Stop: 32286, Start Num: 346
Candidate Starts for Henoccus_42:

(Start: 346 @30892 has 14 MA's), (Start: 349 @30895 has 3 MA's), (400, 30970), (416, 30994), (443, 31024), (444, 31027), (448, 31039), (493, 31129), (516, 31153), (540, 31198), (544, 31204), (571, 31264), (582, 31285), (612, 31339), (661, 31438), (678, 31465), (683, 31474), (749, 31600), (778, 31648), (791, 31669), (798, 31681), (804, 31696), (827, 31726), (842, 31759), (847, 31768), (870, 31810), (910, 31876), (914, 31879), (926, 31900), (939, 31918), (948, 31936), (975, 31990), (988, 32020), (1009, 32077), (1010, 32080), (1026, 32128), (1047, 32182), (1082, 32251), (1090, 32269),

Gene: Herb_26 Start: 21732, Stop: 23129, Start Num: 333
Candidate Starts for Herb_26:
(Start: 333 @21732 has 73 MA's), (381, 21792), (441, 21879), (448, 21897), (449, 21900), (484, 21984), (486, 21990), (512, 22017), (540, 22068), (544, 22074), (566, 22125), (571, 22134), (582, 22155), (588, 22164), (607, 22200), (617, 22221), (634, 22254), (640, 22275), (646, 22293), (651, 22299), (677, 22326), (686, 22338), (692, 22353), (730, 22407), (753, 22458), (758, 22464), (763, 22473), (766, 22479), (778, 22500), (798, 22533), (804, 22548), (814, 22557), (888, 22680), (910, 22719), (926, 22743), (934, 22755), (988, 22863), (990, 22869), (994, 22878), (997, 22884), (1009, 22920), (1038, 23007), (1084, 23097), (1094, 23121),

Gene: HerculesXL_40 Start: 29477, Stop: 28092, Start Num: 357
Candidate Starts for HerculesXL_40:
(Start: 357 @29477 has 5 MA's), (474, 29264), (503, 29201), (515, 29180), (562, 29087), (563, 29084), (574, 29063), (583, 29042), (634, 28946), (721, 28775), (733, 28751), (738, 28739), (743, 28727), (748, 28715), (750, 28712), (763, 28694), (769, 28679), (836, 28619), (841, 28607), (847, 28595), (887, 28523), (907, 28493), (932, 28460), (989, 28352), (993, 28343), (999, 28328), (1000, 28322), (1002, 28316), (1007, 28304), (1045, 28208), (1048, 28199), (1061, 28169), (1081, 28127),

Gene: Heylee_73 Start: 47198, Stop: 45804, Start Num: 252
Candidate Starts for Heylee_73:
(Start: 252 @47198 has 13 MA's), (311, 47129), (363, 47054), (381, 47036), (403, 47006), (447, 46925), (459, 46895), (468, 46871), (602, 46631), (622, 46592), (677, 46478), (719, 46427), (743, 46406), (760, 46376), (767, 46361), (773, 46349), (848, 46268), (897, 46220), (915, 46193), (927, 46172), (976, 46088), (1005, 46022), (1084, 45833), (1088, 45821),

Gene: Hiddenleaf_40 Start: 25169, Stop: 27076, Start Num: 58
Candidate Starts for Hiddenleaf_40:
(17, 24995), (Start: 58 @25169 has 39 MA's), (83, 25232), (96, 25253), (115, 25307), (183, 25442), (202, 25484), (Start: 235 @25529 has 1 MA's), (341, 25703), (348, 25712), (409, 25802), (433, 25844), (440, 25859), (539, 26045), (610, 26180), (616, 26192), (639, 26225), (731, 26354), (796, 26471), (969, 26744), (990, 26783), (1010, 26843), (1044, 26933), (1058, 26963), (1074, 27005), (1102, 27056),

Gene: Hollow_57 Start: 53503, Stop: 51797, Start Num: 126
Candidate Starts for Hollow_57:
(Start: 126 @53503 has 9 MA's), (Start: 131 @53491 has 2 MA's), (174, 53392), (Start: 185 @53371 has 1 MA's), (227, 53305), (301, 53206), (321, 53170), (336, 53146), (343, 53137), (348, 53128), (380, 53080), (396, 53056), (Start: 430 @53014 has 1 MA's), (436, 52999), (444, 52984), (468, 52927), (469, 52924), (517, 52864), (518, 52861), (555, 52795), (558, 52792), (572, 52756), (574, 52753), (581, 52735), (586, 52726), (591, 52714), (616, 52666), (640, 52633), (655, 52609), (668, 52585), (679, 52561), (732, 52495), (780, 52396), (871, 52264), (873, 52261), (972, 52144), (974, 52141), (999, 52084), (1004, 52066), (1047, 51949), (1048, 51946), (1054, 51934), (1107, 51835), (1119, 51814),

Gene: HollowPurple_85 Start: 50087, Stop: 48567, Start Num: 250
Candidate Starts for HollowPurple_85:

(230, 50120), (Start: 250 @50087 has 29 MA's), (281, 50036), (375, 49928), (419, 49862), (449, 49796), (513, 49679), (523, 49658), (552, 49601), (566, 49568), (568, 49565), (598, 49502), (622, 49451), (626, 49442), (631, 49433), (634, 49427), (641, 49403), (652, 49379), (673, 49340), (681, 49325), (713, 49274), (726, 49256), (767, 49163), (784, 49136), (814, 49091), (938, 48905), (995, 48797), (1005, 48767), (1020, 48722), (1040, 48671), (1070, 48608),

Gene: HomeFry_79 Start: 55194, Stop: 53140, Start Num: 35
Candidate Starts for HomeFry_79:
(Start: 35 @55194 has 37 MA's), (75, 55074), (86, 55041), (Start: 126 @54945 has 9 MA's), (127, 54942), (Start: 200 @54792 has 9 MA's), (271, 54684), (296, 54651), (309, 54630), (328, 54600), (348, 54567), (409, 54477), (450, 54414), (547, 54258), (572, 54207), (618, 54111), (637, 54078), (668, 54015), (686, 53979), (731, 53892), (767, 53823), (778, 53805), (842, 53700), (889, 53631), (903, 53598), (907, 53592), (925, 53562), (933, 53547), (957, 53505), (989, 53445), (1011, 53382), (1041, 53301), (1055, 53277), (1080, 53217),

Gene: Hortus1_77 Start: 49476, Stop: 47953, Start Num: 250
Candidate Starts for Hortus1_77:
(214, 49542), (226, 49515), (Start: 250 @49476 has 29 MA's), (363, 49326), (375, 49317), (435, 49221), (448, 49188), (459, 49161), (482, 49107), (515, 49062), (517, 49059), (566, 48954), (568, 48951), (626, 48828), (631, 48819), (635, 48807), (660, 48753), (713, 48660), (766, 48552), (784, 48522), (787, 48516), (789, 48513), (792, 48510), (814, 48477), (822, 48465), (903, 48339), (938, 48291), (986, 48201), (995, 48183), (1012, 48135), (1061, 48012),

Gene: Hotorobo_59 Start: 52337, Stop: 50805, Start Num: 222
Candidate Starts for Hotorobo_59:
(102, 52592), (121, 52541), (142, 52490), (165, 52436), (181, 52406), (Start: 194 @52373 has 3 MA's), (201, 52364), (Start: 222 @52337 has 29 MA's), (321, 52169), (348, 52127), (380, 52079), (Start: 388 @52067 has 1 MA's), (396, 52055), (401, 52049), (412, 52028), (435, 52001), (520, 51860), (565, 51773), (572, 51758), (578, 51746), (591, 51716), (617, 51665), (639, 51638), (668, 51587), (695, 51527), (697, 51524), (732, 51497), (750, 51455), (780, 51410), (873, 51275), (883, 51260), (894, 51239), (972, 51158), (974, 51155), (999, 51098), (1000, 51092), (1002, 51086), (1004, 51080), (1030, 51005), (1047, 50966), (1052, 50954), (1054, 50951), (1097, 50858), (1107, 50843), (1119, 50822),

Gene: Htur_33 Start: 23465, Stop: 24892, Start Num: 339
Candidate Starts for Htur_33:
(310, 23426), (326, 23447), (Start: 339 @23465 has 21 MA's), (542, 23822), (571, 23885), (599, 23930), (607, 23951), (749, 24218), (778, 24266), (791, 24287), (804, 24314), (824, 24341), (827, 24344), (840, 24371), (842, 24377), (860, 24413), (914, 24491), (926, 24512), (939, 24530), (944, 24542), (988, 24626), (1009, 24683), (1013, 24695), (1026, 24734), (1038, 24770), (1042, 24776),

Gene: HubbaBubba_67 Start: 51701, Stop: 49620, Start Num: 35
Candidate Starts for HubbaBubba_67:
(9, 51893), (11, 51875), (Start: 35 @51701 has 37 MA's), (115, 51470), (180, 51332), (271, 51182), (296, 51149), (345, 51068), (348, 51065), (409, 50975), (411, 50972), (450, 50912), (547, 50756), (618, 50609), (668, 50501), (679, 50477), (731, 50375), (755, 50321), (767, 50306), (814, 50225), (842, 50186), (886, 50123), (903, 50084), (907, 50078), (925, 50048), (989, 49931), (1011, 49868), (1031, 49805), (1041, 49787), (1080, 49703),

Gene: Hubbs_78 Start: 49505, Stop: 47982, Start Num: 250
Candidate Starts for Hubbs_78:
(130, 49766), (146, 49724), (Start: 250 @49505 has 29 MA's), (336, 49394), (363, 49355), (375, 49346), (435, 49250), (451, 49208), (459, 49190), (482, 49136), (515, 49091), (517, 49088), (568, 48986), (626, 48863), (640, 48827), (660, 48788), (690, 48722), (713, 48695), (726, 48677), (737,

48647), (766, 48587), (784, 48557), (792, 48545), (795, 48539), (986, 48230), (995, 48212), (1010, 48170), (1012, 48164), (1017, 48146), (1018, 48143), (1072, 48017),

Gene: HumptyDumpty_90 Start: 58721, Stop: 60466, Start Num: 159
Candidate Starts for HumptyDumpty_90:
(Start: 159 @58721 has 18 MA's), (168, 58742), (205, 58820), (215, 58844), (238, 58889), (251, 58913), (272, 58952), (370, 59111), (375, 59120), (406, 59162), (418, 59183), (441, 59216), (444, 59222), (445, 59225), (450, 59240), (459, 59255), (500, 59342), (508, 59354), (511, 59360), (529, 59396), (542, 59420), (551, 59432), (613, 59564), (652, 59648), (667, 59669), (672, 59681), (680, 59696), (682, 59699), (692, 59723), (714, 59747), (725, 59759), (747, 59816), (779, 59861), (818, 59927), (827, 59939), (835, 59948), (842, 59972), (845, 59975), (864, 60011), (866, 60017), (877, 60041), (928, 60122), (931, 60128), (942, 60146), (960, 60173), (964, 60179), (977, 60209), (978, 60215), (1006, 60275), (1021, 60326), (1024, 60332), (1038, 60371),

Gene: HungryHenry_40 Start: 30808, Stop: 29420, Start Num: 360
Candidate Starts for HungryHenry_40:
(Start: 49 @31459 has 8 MA's), (187, 31105), (220, 31030), (Start: 360 @30808 has 155 MA's), (445, 30664), (448, 30658), (449, 30655), (503, 30541), (518, 30514), (551, 30454), (562, 30427), (563, 30424), (611, 30328), (634, 30286), (721, 30115), (732, 30094), (738, 30079), (769, 30019), (836, 29959), (887, 29863), (932, 29800), (966, 29746), (1000, 29662), (1002, 29656), (1007, 29644), (1045, 29548), (1068, 29494), (1070, 29491), (1081, 29467),

Gene: HunterDalle_26 Start: 21745, Stop: 23139, Start Num: 333
Candidate Starts for HunterDalle_26:
(Start: 333 @21745 has 73 MA's), (381, 21802), (441, 21889), (448, 21907), (449, 21910), (484, 21994), (512, 22027), (540, 22078), (544, 22084), (571, 22144), (588, 22174), (607, 22210), (616, 22228), (634, 22264), (640, 22285), (646, 22303), (651, 22309), (677, 22336), (730, 22417), (740, 22444), (753, 22468), (763, 22483), (778, 22510), (798, 22543), (804, 22558), (908, 22726), (926, 22753), (934, 22765), (944, 22783), (988, 22873), (990, 22879), (997, 22894), (998, 22897), (1009, 22930), (1030, 22990), (1038, 23017), (1067, 23074), (1084, 23107), (1094, 23131),

Gene: Huntingdon_29 Start: 22127, Stop: 23518, Start Num: 333
Candidate Starts for Huntingdon_29:
(Start: 333 @22127 has 73 MA's), (406, 22214), (448, 22286), (449, 22289), (477, 22355), (484, 22373), (486, 22379), (512, 22406), (544, 22463), (582, 22544), (588, 22553), (607, 22589), (616, 22607), (634, 22643), (640, 22664), (646, 22682), (677, 22715), (699, 22754), (730, 22796), (740, 22823), (753, 22847), (773, 22883), (778, 22889), (798, 22922), (804, 22937), (814, 22946), (840, 22991), (857, 23024), (858, 23027), (910, 23108), (934, 23144), (939, 23150), (944, 23162), (988, 23252), (997, 23273), (998, 23276), (1007, 23300), (1009, 23309), (1038, 23396), (1065, 23447), (1084, 23486), (1094, 23510),

Gene: HyRo_176 Start: 100448, Stop: 98586, Start Num: 119
Candidate Starts for HyRo_176:
(Start: 119 @100448 has 185 MA's), (Start: 145 @100388 has 1 MA's), (Start: 182 @100319 has 1 MA's), (420, 99947), (443, 99905), (449, 99887), (506, 99803), (518, 99779), (530, 99755), (532, 99752), (555, 99707), (579, 99656), (595, 99626), (601, 99614), (661, 99485), (713, 99392), (717, 99386), (746, 99323), (748, 99317), (811, 99221), (814, 99215), (879, 99104), (921, 99032), (948, 98999), (951, 98990), (1004, 98870), (1010, 98852), (1047, 98753), (1048, 98750), (1058, 98729), (1083, 98675), (1107, 98639),

Gene: I3_196 Start: 102395, Stop: 100533, Start Num: 119
Candidate Starts for I3_196:

(Start: 119 @102395 has 185 MA's), (Start: 145 @102335 has 1 MA's), (Start: 182 @102266 has 1 MA's), (420, 101894), (443, 101852), (449, 101834), (506, 101750), (518, 101726), (530, 101702), (532, 101699), (555, 101654), (579, 101603), (595, 101573), (601, 101561), (661, 101432), (713, 101339), (717, 101333), (746, 101270), (748, 101264), (811, 101168), (814, 101162), (879, 101051), (921, 100979), (948, 100946), (951, 100937), (1004, 100817), (1010, 100799), (1047, 100700), (1048, 100697), (1058, 100676), (1083, 100622), (1107, 100586),

Gene: IDyn_69 Start: 52448, Stop: 50367, Start Num: 35
Candidate Starts for IDyn_69:
(9, 52640), (11, 52622), (18, 52547), (Start: 35 @52448 has 37 MA's), (115, 52217), (180, 52079), (271, 51929), (296, 51896), (343, 51821), (345, 51815), (348, 51812), (409, 51722), (411, 51719), (450, 51659), (547, 51503), (618, 51356), (668, 51248), (679, 51224), (731, 51122), (755, 51068), (767, 51053), (814, 50972), (842, 50933), (886, 50870), (903, 50831), (907, 50825), (925, 50795), (989, 50678), (1011, 50615), (1031, 50552), (1041, 50534), (1080, 50450),

Gene: Ichor_70 Start: 47416, Stop: 46022, Start Num: 252
Candidate Starts for Ichor_70:
(Start: 252 @47416 has 13 MA's), (311, 47347), (363, 47272), (381, 47254), (403, 47224), (447, 47143), (602, 46849), (622, 46810), (677, 46696), (743, 46624), (760, 46594), (767, 46579), (773, 46567), (824, 46516), (875, 46465), (892, 46447), (897, 46438), (927, 46390), (1005, 46240), (1084, 46051),

Gene: IkeLoa_180 Start: 99747, Stop: 97885, Start Num: 119
Candidate Starts for IkeLoa_180:
(Start: 119 @99747 has 185 MA's), (Start: 145 @99687 has 1 MA's), (Start: 182 @99618 has 1 MA's), (420, 99246), (443, 99204), (449, 99186), (506, 99102), (518, 99078), (530, 99054), (532, 99051), (555, 99006), (579, 98955), (595, 98925), (601, 98913), (661, 98784), (713, 98691), (717, 98685), (746, 98622), (748, 98616), (811, 98520), (814, 98514), (879, 98403), (921, 98331), (948, 98298), (951, 98289), (1004, 98169), (1010, 98151), (1047, 98052), (1048, 98049), (1058, 98028), (1083, 97974), (1107, 97938),

Gene: Ilzat_40 Start: 30819, Stop: 29431, Start Num: 360
Candidate Starts for Ilzat_40:
(Start: 49 @31470 has 8 MA's), (187, 31116), (220, 31041), (Start: 360 @30819 has 155 MA's), (445, 30675), (448, 30669), (449, 30666), (503, 30552), (518, 30525), (551, 30465), (562, 30438), (563, 30435), (611, 30339), (634, 30297), (721, 30126), (732, 30105), (738, 30090), (769, 30030), (836, 29970), (887, 29874), (932, 29811), (966, 29757), (1000, 29673), (1002, 29667), (1007, 29655), (1045, 29559), (1068, 29505), (1070, 29502), (1081, 29478),

Gene: IndiRoo_33 Start: 21703, Stop: 23130, Start Num: 339
Candidate Starts for IndiRoo_33:
(320, 21682), (Start: 339 @21703 has 21 MA's), (540, 22057), (542, 22060), (555, 22081), (599, 22168), (617, 22210), (769, 22492), (778, 22504), (791, 22525), (804, 22552), (824, 22579), (827, 22582), (840, 22609), (842, 22615), (860, 22651), (926, 22750), (963, 22813), (975, 22834), (998, 22888), (1009, 22921), (1013, 22933), (1026, 22972), (1038, 23008), (1042, 23014), (1047, 23026), (1065, 23059), (1078, 23089),

Gene: Indlulamithi_65 Start: 45619, Stop: 47481, Start Num: 91
Candidate Starts for Indlulamithi_65:
(Start: 91 @45619 has 1 MA's), (97, 45634), (202, 45862), (Start: 243 @45922 has 5 MA's), (265, 45964), (292, 46000), (314, 46033), (323, 46051), (Start: 362 @46111 has 4 MA's), (374, 46129), (398, 46162), (423, 46201), (462, 46291), (469, 46312), (472, 46315), (506, 46336), (591, 46513), (630, 46582), (645, 46618), (662, 46639), (668, 46651), (698, 46717), (729, 46759), (731, 46765), (745,

46798), (751, 46813), (768, 46837), (769, 46840), (784, 46864), (791, 46873), (856, 46960), (933, 47065), (997, 47206), (1031, 47314), (1041, 47335), (1050, 47350), (1071, 47401), (1101, 47458), (1106, 47464), (1113, 47476),

Gene: InigoMontoya_190 Start: 100375, Stop: 98513, Start Num: 119
Candidate Starts for InigoMontoya_190:
(Start: 119 @100375 has 185 MA's), (Start: 145 @100315 has 1 MA's), (Start: 182 @100246 has 1 MA's), (420, 99874), (443, 99832), (449, 99814), (506, 99730), (518, 99706), (530, 99682), (532, 99679), (555, 99634), (579, 99583), (595, 99553), (601, 99541), (661, 99412), (713, 99319), (717, 99313), (746, 99250), (748, 99244), (811, 99148), (814, 99142), (879, 99031), (921, 98959), (948, 98926), (951, 98917), (1004, 98797), (1010, 98779), (1047, 98680), (1048, 98677), (1058, 98656), (1083, 98602), (1107, 98566),

Gene: InterFolia_191 Start: 102459, Stop: 100597, Start Num: 119
Candidate Starts for InterFolia_191:
(Start: 119 @102459 has 185 MA's), (Start: 145 @102399 has 1 MA's), (Start: 182 @102330 has 1 MA's), (420, 101958), (443, 101916), (449, 101898), (506, 101814), (518, 101790), (530, 101766), (532, 101763), (555, 101718), (579, 101667), (595, 101637), (601, 101625), (661, 101496), (713, 101403), (717, 101397), (746, 101334), (748, 101328), (811, 101232), (814, 101226), (879, 101115), (921, 101043), (948, 101010), (951, 101001), (1004, 100881), (1010, 100863), (1047, 100764), (1048, 100761), (1058, 100740), (1083, 100686), (1107, 100650),

Gene: Intolerant_41 Start: 31037, Stop: 32431, Start Num: 346
Candidate Starts for Intolerant_41:
(Start: 346 @31037 has 14 MA's), (Start: 349 @31040 has 3 MA's), (400, 31115), (416, 31139), (443, 31169), (448, 31184), (493, 31274), (525, 31310), (571, 31409), (575, 31418), (613, 31487), (678, 31610), (749, 31745), (766, 31772), (778, 31793), (791, 31814), (827, 31871), (842, 31904), (847, 31913), (870, 31955), (910, 32021), (926, 32045), (939, 32063), (948, 32081), (975, 32135), (988, 32165), (1009, 32222), (1010, 32225), (1026, 32273), (1041, 32312), (1047, 32327), (1082, 32396), (1090, 32414), (1094, 32423),

Gene: Inventa_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Inventa_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (715, 30430), (721, 30421), (732, 30400), (738, 30385), (743, 30373), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Ioannes_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for Ioannes_41:
(220, 31340), (Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (608, 30641), (611, 30638), (634, 30596), (721, 30425), (732, 30404), (738, 30389), (743, 30377), (769, 30329), (836, 30269), (887, 30173), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1033, 29879), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: Iota_182 Start: 100048, Stop: 98186, Start Num: 119
Candidate Starts for Iota_182:
(Start: 119 @100048 has 185 MA's), (Start: 145 @99988 has 1 MA's), (Start: 182 @99919 has 1 MA's), (420, 99547), (443, 99505), (449, 99487), (506, 99403), (518, 99379), (530, 99355), (532, 99352), (555, 99307), (579, 99256), (595, 99226), (601, 99214), (661, 99085), (713, 98992), (717, 98986), (746, 98923), (748, 98917), (811, 98821), (814, 98815), (879, 98704), (921, 98632), (948,

98599), (951, 98590), (1004, 98470), (1010, 98452), (1047, 98353), (1048, 98350), (1058, 98329), (1083, 98275), (1107, 98239),

Gene: Issa7_83 Start: 49544, Stop: 48024, Start Num: 250
Candidate Starts for Issa7_83:
(230, 49577), (Start: 250 @49544 has 29 MA's), (281, 49493), (375, 49385), (419, 49319), (449, 49253), (515, 49130), (523, 49115), (552, 49058), (566, 49025), (568, 49022), (598, 48959), (622, 48908), (626, 48899), (631, 48890), (634, 48884), (641, 48860), (652, 48836), (673, 48797), (681, 48782), (713, 48731), (726, 48713), (737, 48683), (787, 48587), (814, 48548), (938, 48362), (995, 48254), (1005, 48224), (1020, 48179), (1070, 48065),

Gene: Issimir_182 Start: 100322, Stop: 98460, Start Num: 119
Candidate Starts for Issimir_182:
(Start: 119 @100322 has 185 MA's), (Start: 145 @100262 has 1 MA's), (Start: 182 @100193 has 1 MA's), (420, 99821), (443, 99779), (449, 99761), (506, 99677), (518, 99653), (530, 99629), (532, 99626), (555, 99581), (579, 99530), (595, 99500), (601, 99488), (661, 99359), (713, 99266), (717, 99260), (746, 99197), (748, 99191), (811, 99095), (814, 99089), (879, 98978), (921, 98906), (948, 98873), (951, 98864), (1004, 98744), (1010, 98726), (1047, 98627), (1048, 98624), (1058, 98603), (1083, 98549), (1107, 98513),

Gene: Ixel_41 Start: 29711, Stop: 28434, Start Num: 430
Candidate Starts for Ixel_41:
(Start: 357 @29819 has 5 MA's), (Start: 430 @29711 has 1 MA's), (445, 29675), (449, 29666), (503, 29543), (515, 29522), (562, 29429), (563, 29426), (583, 29384), (607, 29336), (611, 29330), (634, 29288), (688, 29165), (721, 29117), (732, 29096), (743, 29069), (748, 29057), (750, 29054), (763, 29036), (836, 28961), (841, 28949), (887, 28865), (917, 28820), (973, 28730), (989, 28694), (993, 28685), (999, 28670), (1000, 28664), (1002, 28658), (1007, 28646), (1045, 28550), (1061, 28511),

Gene: Izajani_186 Start: 101191, Stop: 99329, Start Num: 119
Candidate Starts for Izajani_186:
(Start: 119 @101191 has 185 MA's), (Start: 145 @101131 has 1 MA's), (Start: 182 @101062 has 1 MA's), (420, 100690), (443, 100648), (449, 100630), (506, 100546), (518, 100522), (530, 100498), (532, 100495), (555, 100450), (579, 100399), (595, 100369), (601, 100357), (661, 100228), (713, 100135), (717, 100129), (746, 100066), (748, 100060), (811, 99964), (814, 99958), (879, 99847), (921, 99775), (948, 99742), (951, 99733), (1004, 99613), (1010, 99595), (1047, 99496), (1048, 99493), (1058, 99472), (1083, 99418), (1107, 99382),

Gene: JDawG_39 Start: 25586, Stop: 27493, Start Num: 58
Candidate Starts for JDawG_39:
(17, 25412), (Start: 58 @25586 has 39 MA's), (83, 25649), (96, 25670), (115, 25724), (183, 25859), (202, 25901), (Start: 235 @25946 has 1 MA's), (341, 26120), (348, 26129), (409, 26219), (433, 26261), (440, 26276), (539, 26462), (610, 26597), (616, 26609), (639, 26642), (686, 26735), (731, 26771), (780, 26861), (796, 26888), (987, 27197), (990, 27200), (1010, 27260), (1044, 27350), (1058, 27380), (1074, 27422), (1102, 27473),

Gene: JPickles_184 Start: 98843, Stop: 96981, Start Num: 119
Candidate Starts for JPickles_184:
(Start: 119 @98843 has 185 MA's), (Start: 145 @98783 has 1 MA's), (Start: 182 @98714 has 1 MA's), (420, 98342), (443, 98300), (449, 98282), (506, 98198), (518, 98174), (530, 98150), (532, 98147), (555, 98102), (579, 98051), (595, 98021), (601, 98009), (661, 97880), (713, 97787), (717, 97781), (746, 97718), (748, 97712), (811, 97616), (814, 97610), (879, 97499), (921, 97427), (948, 97394), (951, 97385), (1004, 97265), (1010, 97247), (1047, 97148), (1048, 97145), (1058, 97124), (1083, 97070), (1107, 97034),

Gene: JaNo_89 Start: 58692, Stop: 60437, Start Num: 159
Candidate Starts for JaNo_89:
(Start: 159 @58692 has 18 MA's), (168, 58713), (205, 58791), (215, 58815), (238, 58860), (251, 58884), (272, 58923), (370, 59082), (375, 59091), (406, 59133), (418, 59154), (441, 59187), (444, 59193), (445, 59196), (450, 59211), (459, 59226), (500, 59313), (508, 59325), (511, 59331), (529, 59367), (542, 59391), (551, 59403), (613, 59535), (652, 59619), (667, 59640), (672, 59652), (680, 59667), (682, 59670), (692, 59694), (714, 59718), (725, 59730), (747, 59787), (779, 59832), (818, 59898), (827, 59910), (835, 59919), (842, 59943), (845, 59946), (864, 59982), (866, 59988), (877, 60012), (928, 60093), (931, 60099), (942, 60117), (960, 60144), (964, 60150), (977, 60180), (978, 60186), (1006, 60246), (1021, 60297), (1024, 60303), (1038, 60342),

Gene: JackieB_42 Start: 30731, Stop: 32125, Start Num: 346
Candidate Starts for JackieB_42:
(Start: 346 @30731 has 14 MA's), (Start: 349 @30734 has 3 MA's), (400, 30809), (416, 30833), (443, 30863), (444, 30866), (448, 30878), (493, 30968), (516, 30992), (540, 31037), (544, 31043), (571, 31103), (582, 31124), (612, 31178), (661, 31277), (678, 31304), (683, 31313), (749, 31439), (778, 31487), (791, 31508), (798, 31520), (804, 31535), (827, 31565), (842, 31598), (847, 31607), (870, 31649), (914, 31718), (926, 31739), (939, 31757), (948, 31775), (975, 31829), (988, 31859), (1009, 31916), (1010, 31919), (1026, 31967), (1047, 32021), (1082, 32090), (1090, 32108),

Gene: Jacko_79 Start: 48477, Stop: 46960, Start Num: 250
Candidate Starts for Jacko_79:
(Start: 240 @48495 has 1 MA's), (Start: 250 @48477 has 29 MA's), (281, 48426), (363, 48327), (375, 48318), (403, 48279), (435, 48222), (511, 48072), (517, 48060), (566, 47958), (568, 47955), (606, 47874), (622, 47841), (626, 47832), (652, 47769), (660, 47757), (690, 47691), (737, 47616), (766, 47556), (814, 47481), (847, 47430), (903, 47343), (966, 47250), (986, 47205), (995, 47187), (1005, 47157), (1012, 47139), (1018, 47118), (1049, 47043), (1061, 47016), (1072, 46992),

Gene: Jaek_70 Start: 47416, Stop: 46022, Start Num: 252
Candidate Starts for Jaek_70:
(Start: 252 @47416 has 13 MA's), (311, 47347), (363, 47272), (381, 47254), (403, 47224), (447, 47143), (602, 46849), (622, 46810), (677, 46696), (743, 46624), (760, 46594), (767, 46579), (773, 46567), (824, 46516), (875, 46465), (892, 46447), (897, 46438), (927, 46390), (1005, 46240), (1084, 46051),

Gene: Jalebi_59 Start: 41637, Stop: 43553, Start Num: 50
Candidate Starts for Jalebi_59:
(Start: 50 @41637 has 13 MA's), (Start: 51 @41640 has 50 MA's), (Start: 58 @41652 has 39 MA's), (75, 41700), (115, 41802), (158, 41892), (173, 41919), (178, 41928), (Start: 222 @42000 has 29 MA's), (296, 42120), (335, 42183), (399, 42273), (418, 42300), (506, 42429), (518, 42453), (538, 42495), (562, 42543), (572, 42564), (581, 42585), (610, 42642), (638, 42696), (662, 42738), (689, 42798), (745, 42894), (746, 42897), (881, 43074), (918, 43125), (968, 43212), (969, 43215), (989, 43251), (992, 43257), (1010, 43311), (1022, 43350), (1066, 43452), (1072, 43467), (1083, 43488),

Gene: Jamemuya19_59 Start: 39419, Stop: 41335, Start Num: 50
Candidate Starts for Jamemuya19_59:
(Start: 50 @39419 has 13 MA's), (Start: 51 @39422 has 50 MA's), (Start: 58 @39434 has 39 MA's), (75, 39482), (87, 39515), (158, 39674), (173, 39701), (178, 39710), (Start: 222 @39782 has 29 MA's), (296, 39902), (335, 39965), (399, 40055), (418, 40082), (506, 40211), (518, 40235), (538, 40277), (543, 40289), (554, 40304), (562, 40325), (572, 40346), (581, 40367), (610, 40424), (618, 40442), (638, 40478), (662, 40520), (689, 40580), (745, 40676), (746, 40679), (881, 40856), (918, 40907), (969, 40997), (989, 41033), (992, 41039), (1010, 41093), (1022, 41132), (1066, 41234), (1072, 41249),

(1083, 41270),

Gene: Jams_57 Start: 52059, Stop: 50647, Start Num: 294
Candidate Starts for Jams_57:
(102, 52407), (154, 52278), (Start: 194 @52188 has 3 MA's), (Start: 294 @52059 has 29 MA's), (321, 52014), (380, 51924), (382, 51921), (386, 51915), (401, 51894), (444, 51831), (477, 51753), (510, 51723), (520, 51705), (565, 51618), (572, 51603), (591, 51561), (640, 51480), (668, 51432), (688, 51390), (695, 51372), (697, 51369), (732, 51342), (755, 51291), (780, 51255), (810, 51204), (873, 51120), (886, 51099), (999, 50943), (1000, 50937), (1004, 50925), (1052, 50799), (1107, 50685),

Gene: Janiyra_192 Start: 101392, Stop: 99530, Start Num: 119
Candidate Starts for Janiyra_192:
(Start: 119 @101392 has 185 MA's), (Start: 145 @101332 has 1 MA's), (Start: 182 @101263 has 1 MA's), (420, 100891), (443, 100849), (449, 100831), (506, 100747), (518, 100723), (530, 100699), (532, 100696), (555, 100651), (579, 100600), (595, 100570), (601, 100558), (661, 100429), (713, 100336), (717, 100330), (746, 100267), (748, 100261), (811, 100165), (814, 100159), (879, 100048), (921, 99976), (948, 99943), (951, 99934), (1004, 99814), (1010, 99796), (1047, 99697), (1048, 99694), (1058, 99673), (1083, 99619), (1107, 99583),

Gene: Janus167_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Janus167_40:
(220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (743, 30062), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: JasonD_43 Start: 31699, Stop: 30293, Start Num: 356
Candidate Starts for JasonD_43:
(234, 31888), (285, 31798), (286, 31795), (Start: 356 @31699 has 2 MA's), (445, 31552), (448, 31546), (474, 31483), (503, 31429), (518, 31402), (551, 31342), (562, 31315), (563, 31312), (611, 31216), (634, 31174), (715, 31012), (721, 31003), (732, 30982), (735, 30976), (738, 30967), (771, 30904), (809, 30883), (836, 30847), (847, 30823), (891, 30748), (917, 30706), (1000, 30550), (1002, 30544), (1007, 30532), (1045, 30436), (1058, 30409), (1068, 30382),

Gene: JasperRussell_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for JasperRussell_40:
(187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: JayCookie_90 Start: 59254, Stop: 60999, Start Num: 159
Candidate Starts for JayCookie_90:
(Start: 159 @59254 has 18 MA's), (168, 59275), (205, 59353), (215, 59377), (238, 59422), (251, 59446), (272, 59485), (370, 59644), (375, 59653), (406, 59695), (418, 59716), (441, 59749), (444, 59755), (445, 59758), (450, 59773), (459, 59788), (500, 59875), (508, 59887), (511, 59893), (529, 59929), (542, 59953), (551, 59965), (613, 60097), (652, 60181), (667, 60202), (672, 60214), (680, 60229), (682, 60232), (692, 60256), (714, 60280), (725, 60292), (747, 60349), (779, 60394), (818, 60460), (827, 60472), (835, 60481), (842, 60505), (845, 60508), (864, 60544), (866, 60550), (877, 60574), (928, 60655), (931, 60661), (942, 60679), (960, 60706), (964, 60712), (977, 60742), (978, 60748), (1006, 60808), (1021, 60859), (1024, 60865), (1038, 60904),

Gene: JayJay_190 Start: 101600, Stop: 99738, Start Num: 119
Candidate Starts for JayJay_190:
(Start: 119 @101600 has 185 MA's), (Start: 145 @101540 has 1 MA's), (Start: 182 @101471 has 1 MA's), (420, 101099), (443, 101057), (449, 101039), (506, 100955), (518, 100931), (530, 100907), (532, 100904), (555, 100859), (579, 100808), (595, 100778), (601, 100766), (661, 100637), (713, 100544), (717, 100538), (746, 100475), (748, 100469), (811, 100373), (814, 100367), (879, 100256), (921, 100184), (948, 100151), (951, 100142), (1004, 100022), (1010, 100004), (1047, 99905), (1048, 99902), (1058, 99881), (1083, 99827), (1107, 99791),

Gene: Jaygup_184 Start: 99805, Stop: 97943, Start Num: 119
Candidate Starts for Jaygup_184:
(Start: 119 @99805 has 185 MA's), (Start: 145 @99745 has 1 MA's), (Start: 182 @99676 has 1 MA's), (420, 99304), (443, 99262), (449, 99244), (506, 99160), (518, 99136), (530, 99112), (532, 99109), (555, 99064), (579, 99013), (595, 98983), (601, 98971), (661, 98842), (713, 98749), (717, 98743), (746, 98680), (748, 98674), (811, 98578), (814, 98572), (879, 98461), (921, 98389), (948, 98356), (951, 98347), (1004, 98227), (1010, 98209), (1047, 98110), (1048, 98107), (1058, 98086), (1083, 98032), (1107, 97996),

Gene: JeanGrey_58 Start: 48575, Stop: 46650, Start Num: 129
Candidate Starts for JeanGrey_58:
(104, 48629), (113, 48611), (Start: 129 @48575 has 1 MA's), (217, 48383), (228, 48359), (263, 48293), (317, 48215), (433, 48044), (526, 47879), (544, 47840), (595, 47732), (748, 47423), (774, 47381), (811, 47327), (875, 47216), (921, 47138), (963, 47066), (1022, 46910), (1049, 46844), (1058, 46829),

Gene: Jedediah_188 Start: 100960, Stop: 99098, Start Num: 119
Candidate Starts for Jedediah_188:
(Start: 119 @100960 has 185 MA's), (Start: 145 @100900 has 1 MA's), (Start: 182 @100831 has 1 MA's), (420, 100459), (443, 100417), (449, 100399), (506, 100315), (518, 100291), (530, 100267), (532, 100264), (555, 100219), (579, 100168), (595, 100138), (601, 100126), (661, 99997), (713, 99904), (717, 99898), (746, 99835), (748, 99829), (811, 99733), (814, 99727), (879, 99616), (921, 99544), (948, 99511), (951, 99502), (1004, 99382), (1010, 99364), (1047, 99265), (1048, 99262), (1058, 99241), (1083, 99187), (1107, 99151),

Gene: Jellybones_61 Start: 53432, Stop: 51900, Start Num: 222
Candidate Starts for Jellybones_61:
(102, 53687), (121, 53636), (154, 53558), (165, 53531), (181, 53501), (Start: 194 @53468 has 3 MA's), (201, 53459), (Start: 222 @53432 has 29 MA's), (301, 53300), (321, 53264), (348, 53222), (Start: 360 @53204 has 155 MA's), (380, 53174), (Start: 388 @53162 has 1 MA's), (401, 53144), (435, 53096), (565, 52868), (572, 52853), (578, 52841), (591, 52811), (617, 52760), (668, 52682), (679, 52658), (688, 52640), (695, 52622), (697, 52619), (726, 52610), (732, 52592), (750, 52550), (780, 52505), (791, 52487), (873, 52370), (883, 52355), (894, 52334), (957, 52277), (972, 52253), (974, 52250), (999, 52193), (1000, 52187), (1004, 52175), (1020, 52124), (1030, 52100), (1047, 52061), (1052, 52049), (1054, 52046), (1097, 51953), (1107, 51938), (1119, 51917),

Gene: Jemerald_42 Start: 31717, Stop: 30299, Start Num: 357
Candidate Starts for Jemerald_42:
(Start: 357 @31717 has 5 MA's), (Start: 360 @31711 has 155 MA's), (445, 31573), (472, 31510), (503, 31450), (515, 31429), (560, 31342), (562, 31336), (563, 31333), (574, 31312), (595, 31267), (607, 31243), (611, 31237), (634, 31195), (693, 31057), (721, 31024), (733, 31000), (769, 30928), (786, 30901), (814, 30853), (836, 30826), (882, 30739), (887, 30730), (957, 30631), (989, 30559), (993, 30550), (999, 30535), (1000, 30529), (1045, 30415), (1061, 30376), (1065, 30370), (1081, 30334), (1083, 30331),

Gene: Jemmno_187 Start: 99786, Stop: 97924, Start Num: 119
Candidate Starts for Jemmno_187:
(Start: 119 @99786 has 185 MA's), (Start: 145 @99726 has 1 MA's), (Start: 182 @99657 has 1 MA's), (420, 99285), (443, 99243), (449, 99225), (506, 99141), (518, 99117), (530, 99093), (532, 99090), (555, 99045), (579, 98994), (595, 98964), (601, 98952), (661, 98823), (713, 98730), (717, 98724), (746, 98661), (748, 98655), (811, 98559), (814, 98553), (879, 98442), (921, 98370), (948, 98337), (951, 98328), (1004, 98208), (1010, 98190), (1047, 98091), (1048, 98088), (1058, 98067), (1083, 98013), (1107, 97977),

Gene: Jenos_44 Start: 32344, Stop: 30941, Start Num: 360
Candidate Starts for Jenos_44:
(205, 32587), (208, 32578), (234, 32527), (245, 32506), (285, 32437), (Start: 360 @32344 has 155 MA's), (445, 32200), (448, 32194), (474, 32131), (503, 32077), (518, 32050), (551, 31990), (562, 31963), (563, 31960), (611, 31864), (634, 31822), (715, 31660), (721, 31651), (732, 31630), (743, 31603), (771, 31552), (836, 31495), (862, 31441), (887, 31399), (917, 31354), (992, 31222), (1000, 31198), (1002, 31192), (1007, 31180), (1045, 31084), (1058, 31057), (1068, 31030), (1099, 30973),

Gene: Jera_34 Start: 22504, Stop: 23931, Start Num: 339
Candidate Starts for Jera_34:
(314, 22462), (Start: 339 @22504 has 21 MA's), (524, 22822), (599, 22969), (607, 22990), (612, 22999), (749, 23257), (778, 23305), (791, 23326), (827, 23383), (842, 23416), (860, 23452), (914, 23530), (926, 23551), (973, 23632), (975, 23635), (1009, 23722), (1013, 23734), (1026, 23773), (1038, 23809), (1042, 23815), (1047, 23827), (1078, 23890),

Gene: Jerbirus_42 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Jerbirus_42:
(Start: 49 @31454 has 8 MA's), (187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: JeriBeth_40 Start: 30666, Stop: 29278, Start Num: 360
Candidate Starts for JeriBeth_40:
(220, 30888), (Start: 360 @30666 has 155 MA's), (445, 30522), (448, 30516), (449, 30513), (503, 30399), (518, 30372), (551, 30312), (562, 30285), (563, 30282), (611, 30186), (634, 30144), (721, 29973), (732, 29952), (738, 29937), (769, 29877), (836, 29817), (887, 29721), (932, 29658), (966, 29604), (1000, 29520), (1002, 29514), (1007, 29502), (1045, 29406), (1068, 29352), (1070, 29349), (1081, 29325),

Gene: Jessibeth14_188 Start: 101800, Stop: 99938, Start Num: 119
Candidate Starts for Jessibeth14_188:
(Start: 119 @101800 has 185 MA's), (Start: 145 @101740 has 1 MA's), (Start: 182 @101671 has 1 MA's), (420, 101299), (443, 101257), (449, 101239), (506, 101155), (518, 101131), (530, 101107), (532, 101104), (555, 101059), (579, 101008), (595, 100978), (601, 100966), (661, 100837), (713, 100744), (717, 100738), (746, 100675), (748, 100669), (769, 100633), (811, 100573), (814, 100567), (879, 100456), (921, 100384), (948, 100351), (951, 100342), (1004, 100222), (1010, 100204), (1047, 100105), (1048, 100102), (1058, 100081), (1083, 100027), (1107, 99991),

Gene: Jezreel_185 Start: 100869, Stop: 99007, Start Num: 119
Candidate Starts for Jezreel_185:

(Start: 119 @100869 has 185 MA's), (Start: 145 @100809 has 1 MA's), (Start: 182 @100740 has 1 MA's), (420, 100368), (443, 100326), (449, 100308), (506, 100224), (518, 100200), (530, 100176), (532, 100173), (555, 100128), (579, 100077), (595, 100047), (601, 100035), (661, 99906), (713, 99813), (717, 99807), (746, 99744), (748, 99738), (811, 99642), (814, 99636), (879, 99525), (921, 99453), (948, 99420), (951, 99411), (1004, 99291), (1010, 99273), (1047, 99174), (1048, 99171), (1058, 99150), (1083, 99096), (1107, 99060),

Gene: Jifall16_71 Start: 56412, Stop: 54346, Start Num: 35
Candidate Starts for Jifall16_71:
(2, 56910), (5, 56709), (8, 56616), (9, 56604), (11, 56586), (Start: 35 @56412 has 37 MA's), (Start: 80 @56274 has 2 MA's), (92, 56250), (178, 56046), (Start: 200 @56001 has 9 MA's), (271, 55893), (345, 55779), (348, 55776), (409, 55686), (411, 55683), (450, 55623), (538, 55485), (547, 55467), (561, 55443), (618, 55320), (668, 55215), (731, 55089), (755, 55035), (834, 54909), (842, 54900), (854, 54876), (903, 54804), (907, 54798), (925, 54768), (957, 54711), (989, 54651), (1011, 54588), (1041, 54507),

Gene: JigglyPuff_194 Start: 102729, Stop: 100867, Start Num: 119
Candidate Starts for JigglyPuff_194:
(Start: 119 @102729 has 185 MA's), (Start: 145 @102669 has 1 MA's), (Start: 182 @102600 has 1 MA's), (420, 102228), (443, 102186), (449, 102168), (506, 102084), (518, 102060), (530, 102036), (532, 102033), (555, 101988), (579, 101937), (595, 101907), (601, 101895), (661, 101766), (713, 101673), (717, 101667), (746, 101604), (748, 101598), (811, 101502), (814, 101496), (879, 101385), (921, 101313), (948, 101280), (951, 101271), (1004, 101151), (1010, 101133), (1047, 101034), (1048, 101031), (1058, 101010), (1083, 100956), (1107, 100920),

Gene: JingleBells_40 Start: 25290, Stop: 27197, Start Num: 58
Candidate Starts for JingleBells_40:
(17, 25116), (Start: 58 @25290 has 39 MA's), (83, 25353), (96, 25374), (115, 25428), (Start: 145 @25491 has 1 MA's), (183, 25563), (202, 25605), (Start: 235 @25650 has 1 MA's), (341, 25824), (348, 25833), (409, 25923), (433, 25965), (440, 25980), (539, 26166), (610, 26301), (616, 26313), (639, 26346), (731, 26475), (796, 26592), (987, 26901), (990, 26904), (1010, 26964), (1044, 27054), (1058, 27084), (1074, 27126), (1102, 27177),

Gene: Jingles_40 Start: 30552, Stop: 29173, Start Num: 362
Candidate Starts for Jingles_40:
(Start: 257 @30717 has 1 MA's), (282, 30672), (306, 30642), (Start: 350 @30570 has 2 MA's), (Start: 358 @30558 has 23 MA's), (Start: 362 @30552 has 4 MA's), (384, 30522), (445, 30414), (448, 30408), (449, 30405), (455, 30390), (544, 30213), (551, 30204), (555, 30195), (563, 30174), (583, 30132), (611, 30078), (721, 29865), (732, 29844), (738, 29829), (743, 29817), (750, 29802), (770, 29766), (782, 29757), (809, 29742), (836, 29706), (891, 29607), (932, 29544), (951, 29517), (985, 29442), (989, 29436), (993, 29427), (999, 29412), (1000, 29406), (1002, 29400), (1007, 29388), (1058, 29265), (1061, 29253),

Gene: Joann_29 Start: 22094, Stop: 23485, Start Num: 333
Candidate Starts for Joann_29:
(Start: 333 @22094 has 73 MA's), (406, 22181), (448, 22253), (449, 22256), (477, 22322), (484, 22340), (512, 22373), (544, 22430), (566, 22481), (570, 22487), (571, 22490), (588, 22520), (607, 22556), (616, 22574), (634, 22610), (640, 22631), (646, 22649), (677, 22682), (699, 22721), (730, 22763), (740, 22790), (753, 22814), (773, 22850), (778, 22856), (798, 22889), (804, 22904), (814, 22913), (840, 22958), (849, 22979), (857, 22991), (910, 23075), (926, 23099), (934, 23111), (939, 23117), (944, 23129), (988, 23219), (990, 23225), (997, 23240), (998, 23243), (1007, 23267), (1009, 23276), (1038, 23363), (1084, 23453), (1094, 23477),

Gene: Johann_34 Start: 23371, Stop: 24798, Start Num: 339
Candidate Starts for Johann_34:
(Start: 339 @23371 has 21 MA's), (474, 23587), (524, 23689), (542, 23728), (571, 23791), (599, 23836), (607, 23857), (651, 23956), (749, 24124), (778, 24172), (791, 24193), (804, 24220), (824, 24247), (840, 24277), (842, 24283), (860, 24319), (914, 24397), (963, 24481), (973, 24499), (975, 24502), (1009, 24589), (1013, 24601), (1026, 24640), (1038, 24676), (1042, 24682), (1067, 24733), (1078, 24757),

Gene: John316_62 Start: 53495, Stop: 51963, Start Num: 222
Candidate Starts for John316_62:
(102, 53750), (121, 53699), (142, 53648), (165, 53594), (181, 53564), (Start: 194 @53531 has 3 MA's), (201, 53522), (Start: 222 @53495 has 29 MA's), (321, 53327), (348, 53285), (380, 53237), (Start: 388 @53225 has 1 MA's), (396, 53213), (401, 53207), (412, 53186), (435, 53159), (565, 52931), (572, 52916), (578, 52904), (591, 52874), (617, 52823), (639, 52796), (668, 52745), (688, 52703), (695, 52685), (697, 52682), (732, 52655), (750, 52613), (780, 52568), (873, 52433), (883, 52418), (894, 52397), (972, 52316), (974, 52313), (999, 52256), (1000, 52250), (1002, 52244), (1004, 52238), (1030, 52163), (1047, 52124), (1052, 52112), (1054, 52109), (1097, 52016), (1107, 52001), (1119, 51980),

Gene: Jormungandr_57 Start: 52602, Stop: 51190, Start Num: 294
Candidate Starts for Jormungandr_57:
(102, 52950), (154, 52821), (Start: 194 @52731 has 3 MA's), (Start: 294 @52602 has 29 MA's), (321, 52557), (380, 52467), (382, 52464), (386, 52458), (401, 52437), (444, 52374), (510, 52266), (520, 52248), (565, 52161), (572, 52146), (591, 52104), (640, 52023), (668, 51975), (688, 51933), (695, 51915), (697, 51912), (732, 51885), (755, 51834), (780, 51798), (810, 51747), (873, 51663), (886, 51642), (999, 51486), (1000, 51480), (1004, 51468), (1052, 51342), (1107, 51228),

Gene: Juanyo_39 Start: 30553, Stop: 29183, Start Num: 360
Candidate Starts for Juanyo_39:
(Start: 358 @30556 has 23 MA's), (Start: 360 @30553 has 155 MA's), (Start: 430 @30451 has 1 MA's), (503, 30292), (518, 30265), (551, 30205), (562, 30178), (563, 30175), (603, 30094), (611, 30079), (686, 29923), (721, 29866), (732, 29845), (735, 29839), (738, 29830), (748, 29806), (763, 29785), (769, 29770), (809, 29746), (836, 29710), (862, 29656), (932, 29551), (944, 29539), (958, 29512), (973, 29479), (989, 29443), (993, 29434), (999, 29419), (1000, 29413), (1002, 29407), (1007, 29395), (1045, 29299), (1048, 29290), (1058, 29272), (1061, 29260), (1081, 29218), (1098, 29191),

Gene: Juicer_42 Start: 31717, Stop: 30299, Start Num: 357
Candidate Starts for Juicer_42:
(Start: 357 @31717 has 5 MA's), (Start: 360 @31711 has 155 MA's), (445, 31573), (472, 31510), (503, 31450), (515, 31429), (560, 31342), (562, 31336), (563, 31333), (574, 31312), (595, 31267), (607, 31243), (611, 31237), (634, 31195), (693, 31057), (721, 31024), (733, 31000), (769, 30928), (786, 30901), (814, 30853), (836, 30826), (882, 30739), (887, 30730), (957, 30631), (989, 30559), (993, 30550), (999, 30535), (1000, 30529), (1045, 30415), (1061, 30376), (1065, 30370), (1081, 30334), (1083, 30331),

Gene: JulietS_179 Start: 98075, Stop: 96213, Start Num: 119
Candidate Starts for JulietS_179:
(Start: 119 @98075 has 185 MA's), (Start: 145 @98015 has 1 MA's), (Start: 182 @97946 has 1 MA's), (420, 97574), (443, 97532), (449, 97514), (506, 97430), (518, 97406), (530, 97382), (532, 97379), (555, 97334), (579, 97283), (595, 97253), (601, 97241), (661, 97112), (713, 97019), (717, 97013), (746, 96950), (748, 96944), (811, 96848), (814, 96842), (879, 96731), (921, 96659), (948, 96626), (951, 96617), (1004, 96497), (1010, 96479), (1047, 96380), (1048, 96377), (1058, 96356), (1083, 96302), (1107, 96266),

Gene: Jumbo_57 Start: 53259, Stop: 51742, Start Num: 248
Candidate Starts for Jumbo_57:
(Start: 248 @53259 has 4 MA's), (306, 53163), (312, 53151), (321, 53136), (418, 53004), (435, 52980), (436, 52977), (453, 52944), (518, 52839), (528, 52818), (563, 52746), (589, 52689), (646, 52587), (668, 52557), (700, 52488), (776, 52395), (786, 52380), (808, 52344), (840, 52311), (854, 52281), (870, 52260), (894, 52218), (900, 52206), (949, 52131), (1004, 52014), (1014, 51981), (1030, 51939), (1058, 51873), (1112, 51774), (1114, 51771),

Gene: Jumboset_29 Start: 22100, Stop: 23500, Start Num: 333
Candidate Starts for Jumboset_29:
(Start: 333 @22100 has 73 MA's), (381, 22163), (448, 22268), (449, 22271), (484, 22355), (512, 22388), (540, 22439), (544, 22445), (582, 22526), (584, 22529), (588, 22535), (607, 22571), (616, 22589), (617, 22592), (640, 22646), (677, 22697), (730, 22778), (740, 22805), (758, 22835), (763, 22844), (778, 22871), (798, 22904), (804, 22919), (840, 22973), (849, 22994), (857, 23006), (863, 23018), (990, 23240), (994, 23249), (997, 23255), (1009, 23291), (1030, 23351), (1038, 23378), (1084, 23468),

Gene: JustBecause_122 Start: 81387, Stop: 79741, Start Num: 200
Candidate Starts for JustBecause_122:
(183, 81426), (Start: 200 @81387 has 9 MA's), (246, 81297), (255, 81279), (270, 81255), (299, 81237), (414, 81060), (461, 80958), (505, 80883), (507, 80880), (538, 80817), (674, 80547), (681, 80535), (726, 80463), (811, 80307), (848, 80247), (856, 80232), (907, 80145), (927, 80115), (952, 80073), (979, 80013), (1019, 79917), (1020, 79914), (1076, 79785),

Gene: JustHall_183 Start: 100299, Stop: 98437, Start Num: 119
Candidate Starts for JustHall_183:
(Start: 119 @100299 has 185 MA's), (Start: 145 @100239 has 1 MA's), (Start: 182 @100170 has 1 MA's), (420, 99798), (443, 99756), (449, 99738), (506, 99654), (518, 99630), (530, 99606), (532, 99603), (555, 99558), (579, 99507), (595, 99477), (601, 99465), (661, 99336), (713, 99243), (717, 99237), (746, 99174), (748, 99168), (811, 99072), (814, 99066), (833, 99042), (879, 98955), (921, 98883), (948, 98850), (951, 98841), (1004, 98721), (1010, 98703), (1047, 98604), (1048, 98601), (1058, 98580), (1083, 98526), (1107, 98490),

Gene: KBurrousTX_88 Start: 60191, Stop: 61936, Start Num: 160
Candidate Starts for KBurrousTX_88:
(101, 60035), (Start: 160 @60191 has 1 MA's), (202, 60278), (205, 60287), (209, 60299), (236, 60353), (251, 60380), (261, 60404), (320, 60503), (322, 60506), (365, 60572), (370, 60578), (387, 60605), (406, 60629), (441, 60683), (444, 60689), (500, 60809), (508, 60821), (511, 60827), (529, 60863), (542, 60887), (551, 60899), (564, 60938), (682, 61166), (714, 61214), (718, 61220), (725, 61226), (727, 61232), (747, 61283), (779, 61328), (827, 61406), (833, 61412), (842, 61439), (855, 61463), (867, 61487), (877, 61508), (928, 61592), (942, 61616), (956, 61634), (960, 61643), (964, 61649), (977, 61679), (978, 61685), (1009, 61757), (1021, 61796), (1024, 61802), (1038, 61841), (1071, 61910),

Gene: KSunshine22_95 Start: 77618, Stop: 79462, Start Num: 60
Candidate Starts for KSunshine22_95:
(Start: 60 @77618 has 17 MA's), (167, 77891), (Start: 252 @77999 has 13 MA's), (290, 78065), (331, 78134), (336, 78143), (447, 78218), (591, 78527), (614, 78572), (647, 78632), (671, 78677), (729, 78734), (731, 78740), (745, 78773), (750, 78785), (757, 78797), (842, 78914), (846, 78920), (893, 78983), (913, 79022), (925, 79043), (970, 79127), (1011, 79220), (1018, 79244), (1089, 79412), (1092, 79415),

Gene: Kabluna_75 Start: 55961, Stop: 53874, Start Num: 35

Candidate Starts for Kabluna_75:
(Start: 35 @55961 has 37 MA's), (75, 55841), (Start: 93 @55796 has 1 MA's), (94, 55793), (Start: 200 @55538 has 9 MA's), (271, 55430), (309, 55376), (348, 55313), (409, 55223), (411, 55220), (426, 55196), (450, 55160), (538, 55022), (547, 55004), (554, 54995), (561, 54980), (618, 54857), (653, 54773), (668, 54746), (679, 54722), (731, 54623), (755, 54569), (791, 54515), (814, 54473), (842, 54434), (889, 54365), (903, 54332), (925, 54296), (950, 54251), (957, 54239), (989, 54179), (1011, 54116), (1080, 53951), (1092, 53927),

Gene: Kabreeze_90 Start: 58778, Stop: 60523, Start Num: 159
Candidate Starts for Kabreeze_90:
(Start: 159 @58778 has 18 MA's), (168, 58799), (205, 58877), (215, 58901), (238, 58946), (251, 58970), (272, 59009), (370, 59168), (375, 59177), (406, 59219), (418, 59240), (441, 59273), (444, 59279), (445, 59282), (450, 59297), (459, 59312), (500, 59399), (508, 59411), (511, 59417), (529, 59453), (542, 59477), (551, 59489), (613, 59621), (652, 59705), (667, 59726), (672, 59738), (680, 59753), (682, 59756), (692, 59780), (714, 59804), (725, 59816), (747, 59873), (779, 59918), (818, 59984), (827, 59996), (835, 60005), (842, 60029), (845, 60032), (864, 60068), (866, 60074), (877, 60098), (928, 60179), (931, 60185), (942, 60203), (960, 60230), (964, 60236), (977, 60266), (978, 60272), (1006, 60332), (1021, 60383), (1024, 60389), (1038, 60428),

Gene: Kale_40 Start: 30818, Stop: 29430, Start Num: 360
Candidate Starts for Kale_40:
(220, 31040), (Start: 360 @30818 has 155 MA's), (445, 30674), (448, 30668), (449, 30665), (503, 30551), (518, 30524), (551, 30464), (562, 30437), (563, 30434), (611, 30338), (634, 30296), (721, 30125), (732, 30104), (738, 30089), (769, 30029), (836, 29969), (887, 29873), (932, 29810), (966, 29756), (1000, 29672), (1002, 29666), (1007, 29654), (1033, 29579), (1045, 29558), (1068, 29504), (1070, 29501), (1081, 29477),

Gene: Kalizoi_29 Start: 22099, Stop: 23499, Start Num: 333
Candidate Starts for Kalizoi_29:
(Start: 333 @22099 has 73 MA's), (381, 22162), (448, 22267), (449, 22270), (484, 22354), (512, 22387), (540, 22438), (544, 22444), (582, 22525), (584, 22528), (588, 22534), (607, 22570), (616, 22588), (617, 22591), (640, 22645), (677, 22696), (730, 22777), (740, 22804), (758, 22834), (763, 22843), (778, 22870), (798, 22903), (804, 22918), (840, 22972), (849, 22993), (857, 23005), (863, 23017), (990, 23239), (994, 23248), (997, 23254), (1009, 23290), (1030, 23350), (1038, 23377), (1084, 23467), (1094, 23491), (1096, 23494),

Gene: Kampe_58 Start: 50421, Stop: 48931, Start Num: 243
Candidate Starts for Kampe_58:
(Start: 243 @50421 has 5 MA's), (301, 50328), (306, 50319), (312, 50307), (321, 50292), (336, 50274), (382, 50217), (427, 50145), (428, 50142), (467, 50049), (499, 50016), (517, 49983), (518, 49980), (528, 49959), (565, 49890), (581, 49854), (626, 49767), (668, 49704), (669, 49701), (686, 49671), (738, 49599), (742, 49590), (840, 49467), (842, 49461), (949, 49329), (974, 49287), (994, 49242), (1004, 49212), (1112, 48960),

Gene: Kamryn_187 Start: 101521, Stop: 99659, Start Num: 119
Candidate Starts for Kamryn_187:
(Start: 119 @101521 has 185 MA's), (Start: 145 @101461 has 1 MA's), (Start: 182 @101392 has 1 MA's), (420, 101020), (443, 100978), (449, 100960), (506, 100876), (518, 100852), (530, 100828), (532, 100825), (555, 100780), (579, 100729), (595, 100699), (601, 100687), (661, 100558), (713, 100465), (717, 100459), (746, 100396), (748, 100390), (811, 100294), (814, 100288), (879, 100177), (921, 100105), (948, 100072), (951, 100063), (1004, 99943), (1010, 99925), (1047, 99826), (1048, 99823), (1058, 99802), (1083, 99748), (1107, 99712),

Gene: KandZ_52 Start: 39857, Stop: 41800, Start Num: 51
Candidate Starts for KandZ_52:
(32, 39794), (Start: 51 @39857 has 50 MA's), (66, 39884), (88, 39956), (107, 40010), (140, 40070), (150, 40097), (177, 40148), (195, 40190), (Start: 222 @40226 has 29 MA's), (271, 40313), (331, 40406), (341, 40421), (354, 40442), (433, 40544), (447, 40577), (458, 40601), (509, 40661), (554, 40748), (587, 40823), (639, 40913), (668, 40964), (669, 40967), (720, 41057), (731, 41075), (745, 41108), (784, 41174), (796, 41192), (842, 41255), (903, 41339), (969, 41456), (989, 41504), (1011, 41567), (1041, 41651),

Gene: KannH_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for KannH_40:
(Start: 49 @31454 has 8 MA's), (187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: Karate_39 Start: 25940, Stop: 27847, Start Num: 58
Candidate Starts for Karate_39:
(17, 25766), (Start: 58 @25940 has 39 MA's), (83, 26003), (96, 26024), (115, 26078), (193, 26240), (202, 26255), (Start: 235 @26300 has 1 MA's), (341, 26474), (348, 26483), (409, 26573), (411, 26576), (440, 26630), (539, 26816), (610, 26951), (616, 26963), (731, 27125), (796, 27242), (990, 27554), (1010, 27614), (1044, 27704), (1058, 27734), (1074, 27776), (1102, 27827),

Gene: Kaseim_57 Start: 52044, Stop: 50632, Start Num: 294
Candidate Starts for Kaseim_57:
(102, 52392), (154, 52263), (Start: 194 @52173 has 3 MA's), (Start: 221 @52137 has 1 MA's), (Start: 294 @52044 has 29 MA's), (321, 51999), (380, 51909), (382, 51906), (386, 51900), (401, 51879), (444, 51816), (510, 51708), (520, 51690), (565, 51603), (572, 51588), (591, 51546), (640, 51465), (668, 51417), (688, 51375), (695, 51357), (697, 51354), (732, 51327), (755, 51276), (780, 51240), (810, 51189), (873, 51105), (886, 51084), (999, 50928), (1000, 50922), (1004, 50910), (1052, 50784), (1107, 50670),

Gene: KatChan_42 Start: 30536, Stop: 29130, Start Num: 360
Candidate Starts for KatChan_42:
(Start: 360 @30536 has 155 MA's), (380, 30506), (447, 30389), (448, 30386), (449, 30383), (474, 30323), (482, 30302), (503, 30260), (518, 30233), (562, 30146), (563, 30143), (583, 30101), (607, 30050), (686, 29888), (721, 29831), (748, 29771), (754, 29762), (763, 29750), (809, 29711), (828, 29684), (831, 29681), (836, 29675), (882, 29588), (891, 29576), (989, 29408), (993, 29399), (999, 29384), (1000, 29378), (1002, 29372), (1007, 29360), (1058, 29237), (1067, 29213), (1081, 29183),

Gene: Kate_41 Start: 25943, Stop: 27850, Start Num: 58
Candidate Starts for Kate_41:
(Start: 58 @25943 has 39 MA's), (83, 26006), (96, 26027), (115, 26081), (202, 26258), (Start: 235 @26303 has 1 MA's), (341, 26477), (348, 26486), (409, 26576), (440, 26633), (539, 26819), (610, 26954), (616, 26966), (639, 26999), (731, 27128), (796, 27245), (856, 27320), (987, 27554), (990, 27557), (1010, 27617), (1044, 27707), (1058, 27737), (1074, 27779), (1102, 27830),

Gene: Katyusha_57 Start: 53319, Stop: 51616, Start Num: 126
Candidate Starts for Katyusha_57:
(Start: 126 @53319 has 9 MA's), (Start: 131 @53307 has 2 MA's), (227, 53124), (Start: 294 @53034 has 29 MA's), (301, 53025), (321, 52989), (336, 52965), (343, 52956), (348, 52947), (380, 52899), (396, 52875), (444, 52803), (447, 52800), (454, 52782), (469, 52743), (555, 52614), (572, 52575),

(574, 52572), (581, 52554), (586, 52545), (591, 52533), (616, 52485), (640, 52452), (668, 52404), (679, 52380), (732, 52314), (780, 52215), (849, 52116), (854, 52107), (871, 52083), (873, 52080), (957, 51987), (972, 51963), (974, 51960), (999, 51903), (1004, 51885), (1047, 51768), (1048, 51765), (1054, 51753), (1107, 51654), (1119, 51633),

Gene: Kauala_39 Start: 30568, Stop: 29171, Start Num: 350
Candidate Starts for Kauala_39:
(220, 30784), (Start: 257 @30715 has 1 MA's), (262, 30700), (306, 30640), (Start: 350 @30568 has 2 MA's), (Start: 358 @30556 has 23 MA's), (Start: 362 @30550 has 4 MA's), (384, 30520), (445, 30412), (448, 30406), (449, 30403), (455, 30388), (551, 30202), (563, 30172), (583, 30130), (611, 30076), (630, 30043), (721, 29863), (732, 29842), (738, 29827), (743, 29815), (748, 29803), (750, 29800), (770, 29764), (809, 29740), (821, 29722), (836, 29704), (932, 29542), (966, 29488), (985, 29440), (989, 29434), (993, 29425), (999, 29410), (1000, 29404), (1002, 29398), (1007, 29386), (1058, 29263), (1061, 29251),

Gene: Kavo_38 Start: 29315, Stop: 27930, Start Num: 352
Candidate Starts for Kavo_38:
(Start: 352 @29315 has 2 MA's), (445, 29171), (474, 29102), (503, 29039), (509, 29030), (515, 29018), (562, 28925), (563, 28922), (574, 28901), (583, 28880), (634, 28784), (721, 28613), (733, 28589), (738, 28577), (743, 28565), (748, 28553), (750, 28550), (763, 28532), (769, 28517), (836, 28457), (841, 28445), (847, 28433), (887, 28361), (907, 28331), (932, 28298), (989, 28190), (993, 28181), (999, 28166), (1000, 28160), (1002, 28154), (1007, 28142), (1045, 28046), (1048, 28037), (1061, 28007), (1081, 27965),

Gene: Kboogie_192 Start: 100957, Stop: 99095, Start Num: 119
Candidate Starts for Kboogie_192:
(Start: 119 @100957 has 185 MA's), (Start: 145 @100897 has 1 MA's), (Start: 182 @100828 has 1 MA's), (420, 100456), (443, 100414), (449, 100396), (506, 100312), (518, 100288), (530, 100264), (532, 100261), (555, 100216), (579, 100165), (595, 100135), (601, 100123), (661, 99994), (713, 99901), (717, 99895), (746, 99832), (748, 99826), (811, 99730), (814, 99724), (879, 99613), (921, 99541), (948, 99508), (951, 99499), (1004, 99379), (1010, 99361), (1047, 99262), (1048, 99259), (1058, 99238), (1083, 99184), (1107, 99148),

Gene: Kela_123 Start: 81267, Stop: 79621, Start Num: 200
Candidate Starts for Kela_123:
(183, 81306), (Start: 200 @81267 has 9 MA's), (246, 81177), (255, 81159), (270, 81135), (299, 81117), (414, 80940), (461, 80838), (505, 80763), (507, 80760), (538, 80697), (674, 80427), (681, 80415), (726, 80343), (811, 80187), (848, 80127), (856, 80112), (907, 80025), (927, 79995), (952, 79953), (979, 79893), (1019, 79797), (1020, 79794), (1076, 79665),

Gene: KellyGreen_42 Start: 30800, Stop: 29412, Start Num: 360
Candidate Starts for KellyGreen_42:
(220, 31022), (Start: 360 @30800 has 155 MA's), (445, 30656), (448, 30650), (449, 30647), (503, 30533), (518, 30506), (551, 30446), (562, 30419), (563, 30416), (611, 30320), (634, 30278), (721, 30107), (732, 30086), (738, 30071), (743, 30059), (769, 30011), (836, 29951), (887, 29855), (932, 29792), (966, 29738), (1000, 29654), (1002, 29648), (1007, 29636), (1033, 29561), (1045, 29540), (1068, 29486), (1070, 29483), (1081, 29459),

Gene: Kelzog_61 Start: 52344, Stop: 50812, Start Num: 222
Candidate Starts for Kelzog_61:
(102, 52599), (121, 52548), (142, 52497), (165, 52443), (181, 52413), (Start: 194 @52380 has 3 MA's), (201, 52371), (Start: 222 @52344 has 29 MA's), (321, 52176), (348, 52134), (380, 52086), (Start: 388 @52074 has 1 MA's), (396, 52062), (401, 52056), (412, 52035), (435, 52008), (520, 51867), (565,

51780), (572, 51765), (578, 51753), (591, 51723), (617, 51672), (639, 51645), (668, 51594), (695, 51534), (697, 51531), (732, 51504), (750, 51462), (780, 51417), (791, 51399), (873, 51282), (883, 51267), (894, 51246), (957, 51189), (972, 51165), (999, 51105), (1000, 51099), (1002, 51093), (1004, 51087), (1020, 51036), (1030, 51012), (1047, 50973), (1052, 50961), (1054, 50958), (1097, 50865), (1107, 50850), (1119, 50829),

Gene: Khaleesi_187 Start: 101267, Stop: 99405, Start Num: 119
Candidate Starts for Khaleesi_187:
(Start: 119 @101267 has 185 MA's), (Start: 145 @101207 has 1 MA's), (Start: 182 @101138 has 1 MA's), (420, 100766), (443, 100724), (449, 100706), (506, 100622), (518, 100598), (530, 100574), (532, 100571), (555, 100526), (579, 100475), (595, 100445), (601, 100433), (661, 100304), (713, 100211), (717, 100205), (746, 100142), (748, 100136), (811, 100040), (814, 100034), (879, 99923), (921, 99851), (948, 99818), (951, 99809), (1004, 99689), (1010, 99671), (1047, 99572), (1048, 99569), (1058, 99548), (1083, 99494), (1107, 99458),

Gene: Kharcho_61 Start: 33998, Stop: 35899, Start Num: 171
Candidate Starts for Kharcho_61:
(133, 33905), (Start: 171 @33998 has 2 MA's), (210, 34085), (237, 34139), (264, 34190), (293, 34238), (308, 34262), (391, 34388), (397, 34397), (494, 34583), (517, 34625), (584, 34772), (592, 34793), (620, 34850), (631, 34874), (645, 34916), (665, 34952), (735, 35090), (786, 35192), (856, 35318), (868, 35342), (890, 35384), (1021, 35669), (1046, 35732), (1061, 35762), (1103, 35843), (1112, 35858),

Gene: KidneyBean_72 Start: 56536, Stop: 54470, Start Num: 35
Candidate Starts for KidneyBean_72:
(2, 57034), (5, 56833), (8, 56740), (9, 56728), (11, 56710), (Start: 35 @56536 has 37 MA's), (Start: 80 @56398 has 2 MA's), (92, 56374), (178, 56170), (Start: 200 @56125 has 9 MA's), (271, 56017), (345, 55903), (348, 55900), (409, 55810), (411, 55807), (450, 55747), (538, 55609), (547, 55591), (561, 55567), (618, 55444), (668, 55339), (731, 55213), (755, 55159), (834, 55033), (842, 55024), (854, 55000), (903, 54928), (907, 54922), (925, 54892), (957, 54835), (989, 54775), (1011, 54712), (1041, 54631),

Gene: Kimchi1738_73 Start: 52700, Stop: 50775, Start Num: 65
Candidate Starts for Kimchi1738_73:
(33, 52793), (Start: 65 @52700 has 8 MA's), (134, 52529), (155, 52475), (271, 52271), (375, 52115), (409, 52064), (411, 52061), (442, 52019), (543, 51857), (550, 51848), (731, 51491), (745, 51458), (856, 51272), (957, 51119), (992, 51053), (997, 51041), (1002, 51023), (1011, 50996), (1031, 50933), (1050, 50900), (1081, 50828),

Gene: KingBob_26 Start: 21732, Stop: 23129, Start Num: 333
Candidate Starts for KingBob_26:
(Start: 333 @21732 has 73 MA's), (381, 21792), (441, 21879), (448, 21897), (449, 21900), (484, 21984), (486, 21990), (512, 22017), (540, 22068), (544, 22074), (566, 22125), (571, 22134), (582, 22155), (588, 22164), (607, 22200), (617, 22221), (634, 22254), (640, 22275), (646, 22293), (651, 22299), (677, 22326), (686, 22338), (692, 22353), (730, 22407), (753, 22458), (758, 22464), (763, 22473), (766, 22479), (778, 22500), (798, 22533), (804, 22548), (814, 22557), (888, 22680), (910, 22719), (926, 22743), (934, 22755), (988, 22863), (990, 22869), (994, 22878), (997, 22884), (1009, 22920), (1038, 23007), (1084, 23097), (1094, 23121),

Gene: KingJulien_40 Start: 31269, Stop: 29878, Start Num: 267
Candidate Starts for KingJulien_40:
(134, 31557), (141, 31536), (Start: 267 @31269 has 6 MA's), (445, 31122), (448, 31116), (449, 31113), (474, 31053), (503, 30999), (518, 30972), (551, 30912), (562, 30885), (563, 30882), (611, 30786),

(634, 30744), (721, 30573), (732, 30552), (836, 30417), (887, 30321), (966, 30204), (973, 30186), (1000, 30120), (1002, 30114), (1007, 30102), (1045, 30006), (1068, 29952), (1070, 29949), (1081, 29925), (1098, 29895),

Gene: Kittykat_25 Start: 20600, Stop: 21994, Start Num: 333
Candidate Starts for Kittykat_25:
(Start: 333 @20600 has 73 MA's), (381, 20657), (448, 20762), (449, 20765), (484, 20849), (512, 20882), (542, 20936), (544, 20939), (588, 21029), (607, 21065), (617, 21086), (634, 21119), (640, 21140), (730, 21272), (740, 21299), (763, 21338), (778, 21365), (798, 21398), (804, 21413), (814, 21422), (840, 21467), (858, 21503), (910, 21584), (926, 21608), (939, 21626), (944, 21638), (975, 21698), (983, 21722), (988, 21728), (989, 21731), (997, 21749), (998, 21752), (1007, 21776), (1009, 21785), (1038, 21872), (1065, 21923), (1084, 21962),

Gene: Klimt_41 Start: 30834, Stop: 29413, Start Num: 360
Candidate Starts for Klimt_41:
(220, 31056), (Start: 360 @30834 has 155 MA's), (445, 30690), (448, 30684), (449, 30681), (503, 30567), (518, 30540), (551, 30480), (562, 30453), (563, 30450), (611, 30354), (634, 30312), (715, 30150), (721, 30141), (732, 30120), (743, 30093), (763, 30060), (769, 30045), (821, 29970), (836, 29952), (887, 29856), (932, 29793), (966, 29739), (1000, 29655), (1002, 29649), (1007, 29637), (1033, 29562), (1045, 29541), (1068, 29487), (1070, 29484), (1081, 29460),

Gene: Knox_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for Knox_41:
(Start: 49 @31769 has 8 MA's), (187, 31415), (220, 31340), (Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (449, 30965), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (611, 30638), (634, 30596), (721, 30425), (732, 30404), (743, 30377), (769, 30329), (836, 30269), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: Koji_39 Start: 30726, Stop: 29332, Start Num: 358
Candidate Starts for Koji_39:
(Start: 257 @30885 has 1 MA's), (282, 30840), (306, 30810), (338, 30756), (Start: 350 @30738 has 2 MA's), (Start: 358 @30726 has 23 MA's), (Start: 362 @30720 has 4 MA's), (384, 30690), (445, 30582), (448, 30576), (449, 30573), (455, 30558), (551, 30372), (555, 30363), (563, 30342), (583, 30300), (611, 30246), (721, 30033), (732, 30012), (738, 29997), (743, 29985), (750, 29970), (770, 29934), (809, 29910), (836, 29874), (839, 29868), (891, 29775), (932, 29712), (951, 29685), (985, 29610), (989, 29604), (993, 29595), (999, 29580), (1000, 29574), (1002, 29568), (1007, 29556), (1058, 29433), (1061, 29421), (1099, 29346),

Gene: Konstantine_65 Start: 46884, Stop: 48941, Start Num: 45
Candidate Starts for Konstantine_65:
(Start: 45 @46884 has 11 MA's), (72, 46944), (73, 46947), (106, 47040), (111, 47052), (120, 47073), (Start: 182 @47196 has 1 MA's), (183, 47199), (187, 47208), (202, 47241), (206, 47262), (229, 47310), (255, 47352), (296, 47415), (309, 47436), (314, 47442), (348, 47496), (462, 47682), (466, 47694), (474, 47712), (506, 47727), (509, 47733), (668, 48051), (669, 48054), (689, 48099), (727, 48150), (731, 48162), (778, 48252), (784, 48264), (802, 48297), (819, 48321), (826, 48330), (907, 48420), (926, 48453), (985, 48564), (989, 48567), (990, 48570), (992, 48573), (1010, 48627), (1031, 48693), (1041, 48711), (1126, 48888),

Gene: Korra_30 Start: 22105, Stop: 23505, Start Num: 333
Candidate Starts for Korra_30:
(Start: 333 @22105 has 73 MA's), (381, 22168), (448, 22273), (449, 22276), (484, 22360), (512, 22393), (540, 22444), (544, 22450), (582, 22531), (584, 22534), (588, 22540), (607, 22576), (616,

22594), (617, 22597), (634, 22630), (640, 22651), (677, 22702), (730, 22783), (740, 22810), (758, 22840), (763, 22849), (778, 22876), (798, 22909), (804, 22924), (840, 22978), (849, 22999), (857, 23011), (863, 23023), (939, 23137), (990, 23245), (994, 23254), (997, 23260), (1009, 23296), (1030, 23356), (1038, 23383), (1084, 23473),

Gene: Kors_42 Start: 26688, Stop: 28622, Start Num: 61
Candidate Starts for Kors_42:
(13, 26448), (Start: 29 @26592 has 1 MA's), (Start: 57 @26682 has 1 MA's), (Start: 61 @26688 has 6 MA's), (115, 26835), (123, 26853), (Start: 126 @26862 has 9 MA's), (202, 27012), (281, 27138), (341, 27228), (348, 27237), (401, 27312), (409, 27327), (433, 27369), (446, 27399), (518, 27531), (616, 27717), (625, 27735), (639, 27750), (668, 27807), (727, 27867), (759, 27939), (848, 28077), (894, 28143), (906, 28173), (950, 28251), (990, 28329), (1010, 28389), (1044, 28479), (1054, 28497), (1104, 28605),

Gene: Kouch_41 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Kouch_41:
(220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: Kovu_95 Start: 56142, Stop: 57803, Start Num: 287
Candidate Starts for Kovu_95:
(217, 56019), (236, 56058), (Start: 287 @56142 has 9 MA's), (325, 56202), (385, 56289), (387, 56292), (478, 56463), (483, 56475), (542, 56595), (559, 56631), (570, 56655), (584, 56688), (588, 56700), (604, 56736), (607, 56742), (631, 56790), (645, 56832), (712, 56952), (742, 57015), (759, 57048), (775, 57078), (786, 57099), (804, 57132), (827, 57165), (854, 57222), (868, 57249), (890, 57291), (924, 57348), (939, 57372), (953, 57402), (963, 57420), (975, 57447), (985, 57474), (1013, 57549), (1021, 57576), (1038, 57624), (1045, 57636), (1058, 57657), (1060, 57666), (1061, 57669), (1073, 57696), (1076, 57702), (1089, 57729), (1105, 57756), (1112, 57768), (1114, 57771), (1117, 57777),

Gene: Kradal_124 Start: 82180, Stop: 80537, Start Num: 200
Candidate Starts for Kradal_124:
(Start: 200 @82180 has 9 MA's), (210, 82156), (270, 82048), (353, 81943), (379, 81904), (414, 81853), (457, 81760), (482, 81700), (505, 81676), (507, 81673), (521, 81646), (568, 81553), (643, 81400), (657, 81376), (659, 81373), (674, 81340), (681, 81328), (726, 81256), (761, 81178), (787, 81133), (881, 80986), (907, 80941), (927, 80911), (947, 80881), (952, 80869), (984, 80803), (1019, 80713), (1020, 80710), (1061, 80614), (1065, 80608), (1076, 80581),

Gene: Krampus_40 Start: 25943, Stop: 27850, Start Num: 58
Candidate Starts for Krampus_40:
(17, 25769), (Start: 58 @25943 has 39 MA's), (83, 26006), (96, 26027), (115, 26081), (193, 26243), (202, 26258), (Start: 235 @26303 has 1 MA's), (341, 26477), (348, 26486), (409, 26576), (433, 26618), (440, 26633), (539, 26819), (610, 26954), (616, 26966), (639, 26999), (731, 27128), (796, 27245), (856, 27320), (987, 27554), (990, 27557), (1010, 27617), (1044, 27707), (1058, 27737), (1074, 27779), (1102, 27830),

Gene: Kurt_72 Start: 56722, Stop: 54656, Start Num: 35
Candidate Starts for Kurt_72:
(2, 57220), (5, 57019), (8, 56926), (9, 56914), (11, 56896), (Start: 35 @56722 has 37 MA's), (Start: 80 @56584 has 2 MA's), (92, 56560), (178, 56356), (Start: 200 @56311 has 9 MA's), (271, 56203), (345, 56089), (348, 56086), (409, 55996), (411, 55993), (450, 55933), (538, 55795), (547, 55777), (561,

55753), (618, 55630), (668, 55525), (731, 55399), (755, 55345), (834, 55219), (842, 55210), (854, 55186), (903, 55114), (907, 55108), (925, 55078), (957, 55021), (989, 54961), (1011, 54898), (1041, 54817),

Gene: Kurt1_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Kurt1_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (715, 30430), (721, 30421), (732, 30400), (738, 30385), (743, 30373), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Kvothe_56 Start: 53206, Stop: 51515, Start Num: 131
Candidate Starts for Kvothe_56:
(Start: 126 @53218 has 9 MA's), (Start: 131 @53206 has 2 MA's), (227, 53023), (Start: 294 @52933 has 29 MA's), (301, 52924), (321, 52888), (336, 52864), (343, 52855), (348, 52846), (380, 52798), (396, 52774), (444, 52702), (454, 52681), (468, 52645), (469, 52642), (555, 52513), (558, 52510), (572, 52474), (574, 52471), (581, 52453), (586, 52444), (591, 52432), (616, 52384), (640, 52351), (668, 52303), (679, 52279), (732, 52213), (780, 52114), (849, 52015), (854, 52006), (871, 51982), (873, 51979), (957, 51886), (972, 51862), (974, 51859), (999, 51802), (1004, 51784), (1047, 51667), (1048, 51664), (1054, 51652), (1107, 51553), (1119, 51532),

Gene: LRRHood_181 Start: 100169, Stop: 98307, Start Num: 119
Candidate Starts for LRRHood_181:
(Start: 119 @100169 has 185 MA's), (Start: 145 @100109 has 1 MA's), (Start: 182 @100040 has 1 MA's), (420, 99668), (443, 99626), (449, 99608), (506, 99524), (518, 99500), (530, 99476), (532, 99473), (555, 99428), (579, 99377), (595, 99347), (601, 99335), (661, 99206), (713, 99113), (717, 99107), (746, 99044), (748, 99038), (811, 98942), (814, 98936), (879, 98825), (921, 98753), (948, 98720), (951, 98711), (1004, 98591), (1010, 98573), (1047, 98474), (1048, 98471), (1058, 98450), (1083, 98396), (1107, 98360),

Gene: Labella_35 Start: 23381, Stop: 24808, Start Num: 339
Candidate Starts for Labella_35:
(314, 23339), (Start: 339 @23381 has 21 MA's), (524, 23699), (571, 23801), (599, 23846), (607, 23867), (749, 24134), (778, 24182), (791, 24203), (827, 24260), (842, 24293), (860, 24329), (914, 24407), (926, 24428), (973, 24509), (975, 24512), (1009, 24599), (1013, 24611), (1026, 24650), (1038, 24686), (1047, 24704), (1078, 24767),

Gene: Labelle_76 Start: 49171, Stop: 51204, Start Num: 47
Candidate Starts for Labelle_76:
(Start: 47 @49171 has 4 MA's), (63, 49195), (82, 49258), (108, 49324), (138, 49375), (139, 49378), (187, 49486), (202, 49519), (229, 49558), (246, 49582), (281, 49645), (296, 49663), (300, 49666), (309, 49684), (314, 49690), (Start: 358 @49759 has 23 MA's), (376, 49786), (384, 49798), (410, 49831), (462, 49933), (543, 50056), (561, 50086), (610, 50191), (618, 50209), (666, 50299), (668, 50302), (705, 50404), (716, 50443), (727, 50470), (731, 50482), (751, 50530), (763, 50548), (778, 50575), (784, 50587), (791, 50596), (907, 50734), (933, 50779), (985, 50884), (1031, 51013), (1050, 51046), (1058, 51064), (1081, 51118), (1102, 51157),

Gene: Labradorite_188 Start: 99399, Stop: 97537, Start Num: 119
Candidate Starts for Labradorite_188:
(Start: 119 @99399 has 185 MA's), (Start: 145 @99339 has 1 MA's), (Start: 182 @99270 has 1 MA's), (420, 98898), (443, 98856), (449, 98838), (506, 98754), (518, 98730), (530, 98706), (532, 98703), (555, 98658), (579, 98607), (595, 98577), (601, 98565), (661, 98436), (713, 98343), (717, 98337),

(746, 98274), (748, 98268), (811, 98172), (814, 98166), (879, 98055), (921, 97983), (948, 97950), (951, 97941), (1004, 97821), (1010, 97803), (1047, 97704), (1048, 97701), (1058, 97680), (1083, 97626), (1107, 97590),

Gene: Lahirium_57 Start: 53124, Stop: 51712, Start Num: 294
Candidate Starts for Lahirium_57:
(102, 53472), (154, 53343), (Start: 194 @53253 has 3 MA's), (Start: 294 @53124 has 29 MA's), (321, 53079), (380, 52989), (382, 52986), (386, 52980), (401, 52959), (444, 52896), (510, 52788), (520, 52770), (565, 52683), (572, 52668), (591, 52626), (640, 52545), (668, 52497), (688, 52455), (695, 52437), (697, 52434), (732, 52407), (755, 52356), (780, 52320), (810, 52269), (873, 52185), (886, 52164), (999, 52008), (1000, 52002), (1004, 51990), (1052, 51864), (1107, 51750),

Gene: Lakshmi_29 Start: 22120, Stop: 23511, Start Num: 333
Candidate Starts for Lakshmi_29:
(Start: 333 @22120 has 73 MA's), (406, 22207), (448, 22279), (449, 22282), (476, 22345), (477, 22348), (484, 22366), (486, 22372), (512, 22399), (544, 22456), (566, 22507), (570, 22513), (571, 22516), (588, 22546), (607, 22582), (616, 22600), (634, 22636), (640, 22657), (646, 22675), (677, 22708), (699, 22747), (730, 22789), (740, 22816), (753, 22840), (773, 22876), (778, 22882), (798, 22915), (804, 22930), (814, 22939), (840, 22984), (857, 23017), (858, 23020), (914, 23104), (926, 23125), (934, 23137), (944, 23155), (988, 23245), (997, 23266), (998, 23269), (1007, 23293), (1009, 23302), (1038, 23389), (1065, 23440), (1084, 23479), (1094, 23503),

Gene: Lambo_58 Start: 40249, Stop: 42159, Start Num: 51
Candidate Starts for Lambo_58:
(Start: 50 @40246 has 13 MA's), (Start: 51 @40249 has 50 MA's), (Start: 58 @40261 has 39 MA's), (75, 40309), (87, 40342), (173, 40528), (183, 40543), (Start: 222 @40609 has 29 MA's), (271, 40696), (296, 40729), (348, 40810), (355, 40819), (361, 40828), (466, 41002), (468, 41008), (506, 41035), (554, 41128), (562, 41149), (565, 41155), (572, 41170), (581, 41191), (610, 41248), (618, 41266), (638, 41302), (662, 41344), (689, 41404), (745, 41500), (746, 41503), (918, 41731), (969, 41821), (989, 41857), (992, 41863), (1010, 41917), (1022, 41956), (1066, 42058), (1072, 42073), (1083, 42094),

Gene: Laroye_95 Start: 55108, Stop: 56772, Start Num: 287
Candidate Starts for Laroye_95:
(Start: 287 @55108 has 9 MA's), (325, 55171), (368, 55231), (391, 55267), (423, 55312), (478, 55432), (526, 55525), (537, 55549), (542, 55561), (566, 55615), (588, 55666), (604, 55702), (617, 55729), (631, 55756), (645, 55798), (712, 55915), (748, 55993), (759, 56011), (786, 56062), (804, 56095), (827, 56128), (854, 56185), (868, 56212), (890, 56254), (924, 56311), (939, 56335), (953, 56365), (963, 56383), (975, 56410), (1013, 56512), (1021, 56539), (1026, 56551), (1058, 56620), (1060, 56629), (1061, 56632), (1073, 56659), (1076, 56665), (1095, 56701), (1105, 56716), (1114, 56731), (1123, 56752),

Gene: LastNadiia_40 Start: 28701, Stop: 26893, Start Num: 64
Candidate Starts for LastNadiia_40:
(Start: 64 @28701 has 19 MA's), (Start: 80 @28641 has 2 MA's), (173, 28440), (246, 28323), (Start: 252 @28311 has 13 MA's), (303, 28227), (447, 28089), (528, 27903), (572, 27810), (581, 27789), (587, 27777), (671, 27618), (679, 27603), (731, 27555), (790, 27486), (794, 27480), (800, 27465), (842, 27426), (847, 27417), (886, 27363), (888, 27360), (900, 27342), (906, 27324), (907, 27321), (993, 27168), (1004, 27135), (1013, 27108), (1019, 27087), (1030, 27060), (1067, 26970), (1092, 26919),

Gene: Latch_187 Start: 99711, Stop: 97849, Start Num: 119
Candidate Starts for Latch_187:

(Start: 119 @99711 has 185 MA's), (Start: 145 @99651 has 1 MA's), (Start: 182 @99582 has 1 MA's), (420, 99210), (443, 99168), (449, 99150), (506, 99066), (518, 99042), (530, 99018), (532, 99015), (555, 98970), (579, 98919), (595, 98889), (601, 98877), (661, 98748), (713, 98655), (717, 98649), (746, 98586), (748, 98580), (811, 98484), (814, 98478), (879, 98367), (921, 98295), (948, 98262), (951, 98253), (1004, 98133), (1010, 98115), (1047, 98016), (1048, 98013), (1058, 97992), (1083, 97938), (1107, 97902),

Gene: Laure_105 Start: 73569, Stop: 75428, Start Num: 60
Candidate Starts for Laure_105:
(Start: 60 @73569 has 17 MA's), (149, 73788), (158, 73809), (167, 73830), (170, 73836), (206, 73869), (Start: 243 @73938 has 5 MA's), (Start: 252 @73953 has 13 MA's), (265, 73980), (276, 73995), (283, 74007), (296, 74028), (329, 74085), (344, 74109), (477, 74256), (487, 74268), (581, 74460), (647, 74586), (671, 74631), (681, 74649), (689, 74670), (729, 74688), (731, 74694), (745, 74727), (750, 74739), (767, 74766), (780, 74787), (791, 74805), (842, 74871), (843, 74874), (888, 74931), (925, 75000), (968, 75078), (970, 75084), (971, 75087), (1018, 75201), (1061, 75309), (1087, 75366),

Gene: LavAbarElk_60 Start: 40030, Stop: 41943, Start Num: 51
Candidate Starts for LavAbarElk_60:
(20, 39904), (21, 39913), (24, 39925), (28, 39958), (Start: 50 @40027 has 13 MA's), (Start: 51 @40030 has 50 MA's), (Start: 58 @40042 has 39 MA's), (75, 40090), (87, 40123), (115, 40192), (158, 40282), (173, 40309), (178, 40318), (Start: 222 @40390 has 29 MA's), (296, 40510), (335, 40573), (399, 40663), (418, 40690), (506, 40819), (518, 40843), (538, 40885), (554, 40912), (562, 40933), (572, 40954), (581, 40975), (610, 41032), (618, 41050), (638, 41086), (662, 41128), (689, 41188), (745, 41284), (746, 41287), (918, 41515), (969, 41605), (989, 41641), (992, 41647), (1010, 41701), (1022, 41740), (1066, 41842), (1072, 41857), (1083, 41878),

Gene: LazerLemon_42 Start: 31529, Stop: 32923, Start Num: 346
Candidate Starts for LazerLemon_42:
(289, 31445), (Start: 346 @31529 has 14 MA's), (370, 31562), (400, 31607), (416, 31631), (443, 31661), (444, 31664), (448, 31676), (493, 31766), (516, 31790), (571, 31901), (612, 31976), (634, 32021), (660, 32072), (661, 32075), (675, 32096), (749, 32237), (766, 32264), (778, 32285), (791, 32306), (827, 32363), (840, 32390), (842, 32396), (847, 32405), (870, 32447), (910, 32513), (914, 32516), (926, 32537), (939, 32555), (948, 32573), (975, 32627), (1009, 32714), (1010, 32717), (1026, 32765), (1041, 32804), (1047, 32819), (1082, 32888), (1090, 32906), (1094, 32915),

Gene: Leafus_40 Start: 31402, Stop: 30011, Start Num: 358
Candidate Starts for Leafus_40:
(Start: 279 @31516 has 1 MA's), (338, 31432), (Start: 358 @31402 has 23 MA's), (445, 31255), (448, 31249), (449, 31246), (503, 31132), (518, 31105), (551, 31045), (562, 31018), (563, 31015), (611, 30919), (634, 30877), (721, 30706), (732, 30685), (743, 30658), (836, 30550), (887, 30454), (966, 30337), (973, 30319), (1000, 30253), (1002, 30247), (1007, 30235), (1045, 30139), (1068, 30085), (1070, 30082), (1081, 30058), (1098, 30028),

Gene: Lederberg_45 Start: 37131, Stop: 38507, Start Num: 342
Candidate Starts for Lederberg_45:
(Start: 342 @37131 has 7 MA's), (391, 37200), (406, 37218), (450, 37311), (476, 37371), (478, 37377), (479, 37380), (539, 37500), (551, 37518), (607, 37635), (678, 37773), (695, 37812), (725, 37845), (727, 37851), (732, 37866), (748, 37905), (788, 37965), (801, 37989), (835, 38025), (872, 38094), (876, 38100), (939, 38181), (993, 38277), (998, 38289), (1003, 38301), (1021, 38358), (1024, 38364), (1029, 38376), (1039, 38406), (1064, 38457),

Gene: Lee7_191 Start: 102647, Stop: 100785, Start Num: 119
Candidate Starts for Lee7_191:

(Start: 119 @102647 has 185 MA's), (Start: 145 @102587 has 1 MA's), (Start: 182 @102518 has 1 MA's), (420, 102146), (443, 102104), (449, 102086), (506, 102002), (518, 101978), (530, 101954), (532, 101951), (555, 101906), (579, 101855), (595, 101825), (601, 101813), (661, 101684), (713, 101591), (717, 101585), (746, 101522), (748, 101516), (811, 101420), (814, 101414), (879, 101303), (921, 101231), (948, 101198), (951, 101189), (1004, 101069), (1010, 101051), (1047, 100952), (1048, 100949), (1058, 100928), (1083, 100874), (1107, 100838),

Gene: LeeroyJenkins_95 Start: 51345, Stop: 49888, Start Num: 225
Candidate Starts for LeeroyJenkins_95:
(Start: 225 @51345 has 5 MA's), (226, 51342), (241, 51315), (325, 51201), (390, 51117), (422, 51069), (441, 51027), (455, 50991), (465, 50967), (510, 50895), (514, 50889), (519, 50877), (533, 50850), (541, 50829), (580, 50754), (591, 50736), (637, 50640), (640, 50631), (691, 50526), (717, 50496), (719, 50493), (725, 50487), (732, 50475), (733, 50472), (763, 50412), (767, 50403), (842, 50313), (897, 50259), (920, 50223), (979, 50142), (980, 50139), (986, 50136), (991, 50127), (1018, 50049), (1020, 50043), (1053, 49965), (1063, 49944), (1075, 49917), (1077, 49914),

Gene: LeoJr_100 Start: 80857, Stop: 82713, Start Num: 60
Candidate Starts for LeoJr_100:
(Start: 60 @80857 has 17 MA's), (167, 81130), (Start: 252 @81235 has 13 MA's), (323, 81358), (331, 81370), (336, 81379), (455, 81475), (487, 81550), (518, 81610), (591, 81763), (614, 81808), (647, 81868), (671, 81913), (729, 81970), (731, 81976), (745, 82009), (750, 82021), (757, 82033), (842, 82150), (843, 82153), (888, 82210), (906, 82246), (913, 82258), (925, 82279), (970, 82363), (1011, 82456), (1018, 82480), (1089, 82648), (1092, 82651),

Gene: Leopard_64 Start: 46071, Stop: 48014, Start Num: 51
Candidate Starts for Leopard_64:
(Start: 51 @46071 has 50 MA's), (62, 46092), (71, 46122), (106, 46221), (140, 46284), (173, 46356), (178, 46365), (202, 46413), (380, 46686), (382, 46689), (467, 46851), (509, 46887), (543, 46959), (550, 46968), (565, 47001), (591, 47058), (597, 47070), (639, 47139), (642, 47148), (655, 47166), (668, 47190), (727, 47286), (731, 47298), (745, 47331), (769, 47373), (807, 47436), (891, 47541), (1002, 47757), (1010, 47781), (1011, 47784), (1025, 47826), (1036, 47856), (1050, 47880), (1109, 47997),

Gene: Lethe_188 Start: 101910, Stop: 100048, Start Num: 119
Candidate Starts for Lethe_188:
(Start: 119 @101910 has 185 MA's), (Start: 145 @101850 has 1 MA's), (Start: 182 @101781 has 1 MA's), (420, 101409), (443, 101367), (449, 101349), (506, 101265), (518, 101241), (530, 101217), (532, 101214), (555, 101169), (579, 101118), (595, 101088), (601, 101076), (661, 100947), (713, 100854), (717, 100848), (746, 100785), (748, 100779), (811, 100683), (814, 100677), (879, 100566), (921, 100494), (948, 100461), (951, 100452), (1004, 100332), (1010, 100314), (1047, 100215), (1048, 100212), (1058, 100191), (1083, 100137), (1107, 100101),

Gene: LiSara_92 Start: 55240, Stop: 56904, Start Num: 287
Candidate Starts for LiSara_92:
(Start: 287 @55240 has 9 MA's), (325, 55303), (368, 55363), (391, 55399), (423, 55444), (478, 55564), (526, 55657), (537, 55681), (542, 55693), (566, 55747), (588, 55798), (604, 55834), (617, 55861), (631, 55888), (645, 55930), (712, 56047), (748, 56125), (759, 56143), (786, 56194), (804, 56227), (827, 56260), (854, 56317), (868, 56344), (890, 56386), (924, 56443), (939, 56467), (953, 56497), (963, 56515), (975, 56542), (1013, 56644), (1021, 56671), (1026, 56683), (1058, 56752), (1060, 56761), (1073, 56791), (1076, 56797), (1095, 56833), (1105, 56848), (1114, 56863), (1123, 56884),

Gene: Librie_40 Start: 29071, Stop: 27644, Start Num: 360
Candidate Starts for Librie_40:

(Start: 360 @29071 has 155 MA's), (380, 29041), (384, 29035), (448, 28921), (449, 28918), (562, 28681), (563, 28678), (686, 28423), (717, 28372), (721, 28366), (743, 28318), (763, 28285), (769, 28270), (814, 28198), (836, 28171), (840, 28162), (862, 28117), (865, 28111), (882, 28084), (932, 28012), (973, 27940), (989, 27904), (993, 27895), (999, 27880), (1000, 27874), (1007, 27856), (1019, 27814), (1048, 27751), (1076, 27688), (1081, 27679),

Gene: Lidong_57 Start: 52859, Stop: 51447, Start Num: 294
Candidate Starts for Lidong_57:
(102, 53207), (154, 53078), (Start: 194 @52988 has 3 MA's), (Start: 294 @52859 has 29 MA's), (321, 52814), (380, 52724), (382, 52721), (386, 52715), (401, 52694), (444, 52631), (477, 52553), (510, 52523), (520, 52505), (565, 52418), (572, 52403), (591, 52361), (640, 52280), (668, 52232), (688, 52190), (695, 52172), (697, 52169), (732, 52142), (755, 52091), (780, 52055), (810, 52004), (873, 51920), (886, 51899), (999, 51743), (1000, 51737), (1004, 51725), (1052, 51599), (1107, 51485),

Gene: LifeSavor_187 Start: 100620, Stop: 98758, Start Num: 119
Candidate Starts for LifeSavor_187:
(Start: 119 @100620 has 185 MA's), (Start: 145 @100560 has 1 MA's), (Start: 182 @100491 has 1 MA's), (420, 100119), (443, 100077), (449, 100059), (506, 99975), (518, 99951), (530, 99927), (532, 99924), (555, 99879), (579, 99828), (595, 99798), (601, 99786), (661, 99657), (713, 99564), (717, 99558), (746, 99495), (748, 99489), (811, 99393), (814, 99387), (879, 99276), (921, 99204), (948, 99171), (951, 99162), (1004, 99042), (1010, 99024), (1047, 98925), (1048, 98922), (1058, 98901), (1083, 98847), (1107, 98811),

Gene: Lifes_86 Start: 48144, Stop: 46666, Start Num: 225
Candidate Starts for Lifes_86:
(Start: 225 @48144 has 5 MA's), (233, 48135), (Start: 247 @48114 has 1 MA's), (359, 47964), (420, 47880), (431, 47859), (519, 47685), (522, 47679), (552, 47625), (591, 47547), (636, 47454), (676, 47379), (693, 47337), (733, 47289), (746, 47259), (767, 47220), (781, 47199), (787, 47187), (883, 47082), (896, 47067), (902, 47055), (922, 47025), (968, 46953), (986, 46917), (1005, 46869), (1011, 46854), (1016, 46836), (1020, 46824), (1032, 46791), (1063, 46725), (1069, 46713), (1077, 46695), (1084, 46683),

Gene: LilStuart_25 Start: 20568, Stop: 21962, Start Num: 333
Candidate Starts for LilStuart_25:
(Start: 333 @20568 has 73 MA's), (381, 20625), (448, 20730), (449, 20733), (484, 20817), (512, 20850), (540, 20901), (544, 20907), (582, 20988), (584, 20991), (588, 20997), (607, 21033), (616, 21051), (617, 21054), (634, 21087), (640, 21108), (730, 21240), (740, 21267), (763, 21306), (773, 21327), (778, 21333), (798, 21366), (804, 21381), (814, 21390), (840, 21435), (858, 21471), (888, 21513), (926, 21576), (939, 21594), (988, 21696), (989, 21699), (997, 21717), (998, 21720), (1007, 21744), (1009, 21753), (1038, 21840), (1084, 21930), (1094, 21954), (1096, 21957),

Gene: LilTerminator_40 Start: 29093, Stop: 27666, Start Num: 360
Candidate Starts for LilTerminator_40:
(Start: 360 @29093 has 155 MA's), (380, 29063), (384, 29057), (448, 28943), (449, 28940), (450, 28937), (515, 28796), (562, 28703), (563, 28700), (686, 28445), (717, 28394), (721, 28388), (743, 28340), (748, 28328), (763, 28307), (836, 28193), (840, 28184), (862, 28139), (865, 28133), (882, 28106), (932, 28034), (973, 27962), (989, 27926), (993, 27917), (999, 27902), (1000, 27896), (1007, 27878), (1019, 27836), (1048, 27773), (1081, 27701),

Gene: Lila22_61 Start: 41200, Stop: 43113, Start Num: 51
Candidate Starts for Lila22_61:
(Start: 50 @41197 has 13 MA's), (Start: 51 @41200 has 50 MA's), (Start: 58 @41212 has 39 MA's), (75, 41260), (87, 41293), (173, 41479), (183, 41494), (Start: 222 @41560 has 29 MA's), (271, 41647),

(293, 41677), (296, 41680), (335, 41743), (348, 41761), (355, 41770), (399, 41833), (418, 41860), (506, 41989), (518, 42013), (538, 42055), (562, 42103), (572, 42124), (581, 42145), (610, 42202), (638, 42256), (662, 42298), (689, 42358), (745, 42454), (746, 42457), (881, 42634), (918, 42685), (969, 42775), (989, 42811), (992, 42817), (1010, 42871), (1022, 42910), (1066, 43012), (1072, 43027), (1083, 43048),

Gene: LilyPad_52 Start: 37853, Stop: 39895, Start Num: 53
Candidate Starts for LilyPad_52:
(Start: 53 @37853 has 9 MA's), (115, 38006), (Start: 144 @38066 has 3 MA's), (202, 38180), (Start: 222 @38204 has 29 MA's), (268, 38288), (296, 38324), (418, 38492), (423, 38498), (433, 38519), (473, 38606), (554, 38717), (572, 38759), (581, 38780), (618, 38855), (668, 38939), (677, 38960), (686, 38975), (701, 39020), (702, 39023), (704, 39035), (706, 39041), (707, 39044), (708, 39077), (722, 39131), (728, 39152), (739, 39182), (745, 39194), (761, 39227), (799, 39296), (834, 39353), (871, 39401), (903, 39446), (918, 39473), (997, 39620), (1015, 39680), (1031, 39728), (1041, 39749), (1067, 39806), (1074, 39824), (1083, 39839), (1106, 39881),

Gene: LinStu_186 Start: 100765, Stop: 98903, Start Num: 119
Candidate Starts for LinStu_186:
(Start: 119 @100765 has 185 MA's), (Start: 145 @100705 has 1 MA's), (Start: 182 @100636 has 1 MA's), (420, 100264), (443, 100222), (449, 100204), (506, 100120), (518, 100096), (530, 100072), (532, 100069), (555, 100024), (579, 99973), (595, 99943), (601, 99931), (661, 99802), (713, 99709), (717, 99703), (746, 99640), (748, 99634), (811, 99538), (814, 99532), (879, 99421), (921, 99349), (948, 99316), (951, 99307), (1004, 99187), (1010, 99169), (1047, 99070), (1048, 99067), (1058, 99046), (1083, 98992), (1107, 98956),

Gene: Linayshia_33 Start: 23433, Stop: 24860, Start Num: 339
Candidate Starts for Linayshia_33:
(310, 23391), (Start: 339 @23433 has 21 MA's), (542, 23790), (571, 23853), (599, 23898), (607, 23919), (749, 24186), (778, 24234), (791, 24255), (804, 24282), (824, 24309), (827, 24312), (840, 24339), (842, 24345), (860, 24381), (914, 24459), (926, 24480), (939, 24498), (944, 24510), (988, 24594), (1009, 24651), (1013, 24663), (1026, 24702), (1038, 24738), (1042, 24744),

Gene: Linetti_59 Start: 53022, Stop: 51613, Start Num: 294
Candidate Starts for Linetti_59:
(102, 53400), (121, 53349), (142, 53298), (165, 53244), (181, 53214), (Start: 194 @53181 has 3 MA's), (201, 53172), (Start: 222 @53145 has 29 MA's), (Start: 294 @53022 has 29 MA's), (321, 52977), (348, 52935), (380, 52887), (382, 52884), (386, 52878), (Start: 388 @52875 has 1 MA's), (396, 52863), (401, 52857), (Start: 430 @52821 has 1 MA's), (435, 52809), (436, 52806), (510, 52686), (520, 52668), (555, 52605), (565, 52581), (572, 52566), (591, 52524), (639, 52446), (668, 52395), (695, 52335), (697, 52332), (726, 52323), (732, 52305), (750, 52263), (780, 52218), (873, 52083), (883, 52068), (894, 52047), (972, 51966), (974, 51963), (999, 51906), (1000, 51900), (1004, 51888), (1020, 51837), (1026, 51822), (1030, 51813), (1047, 51774), (1052, 51762), (1097, 51666), (1107, 51651),

Gene: Linus_90 Start: 59226, Stop: 60971, Start Num: 159
Candidate Starts for Linus_90:
(Start: 159 @59226 has 18 MA's), (168, 59247), (205, 59325), (215, 59349), (238, 59394), (251, 59418), (272, 59457), (370, 59616), (375, 59625), (406, 59667), (418, 59688), (441, 59721), (444, 59727), (445, 59730), (450, 59745), (459, 59760), (500, 59847), (508, 59859), (511, 59865), (529, 59901), (542, 59925), (551, 59937), (613, 60069), (652, 60153), (667, 60174), (672, 60186), (680, 60201), (682, 60204), (692, 60228), (714, 60252), (725, 60264), (747, 60321), (779, 60366), (818, 60432), (827, 60444), (835, 60453), (842, 60477), (845, 60480), (864, 60516), (866, 60522), (877, 60546), (928, 60627), (931, 60633), (942, 60651), (960, 60678), (964, 60684), (977, 60714), (978, 60720), (1006, 60780), (1021, 60831), (1024, 60837), (1038, 60876),

Gene: Litotes_29 Start: 22115, Stop: 23509, Start Num: 333
Candidate Starts for Litotes_29:
(Start: 333 @22115 has 73 MA's), (381, 22172), (448, 22277), (484, 22364), (542, 22451), (544, 22454), (588, 22544), (607, 22580), (612, 22589), (616, 22598), (640, 22655), (646, 22673), (677, 22706), (686, 22718), (730, 22787), (740, 22814), (753, 22838), (778, 22880), (798, 22913), (804, 22928), (814, 22937), (863, 23027), (908, 23096), (926, 23123), (939, 23141), (944, 23153), (988, 23243), (990, 23249), (994, 23258), (997, 23264), (1009, 23300), (1038, 23387), (1065, 23438), (1067, 23444), (1084, 23477), (1094, 23501),

Gene: LittleFella_57 Start: 39855, Stop: 41873, Start Num: 51
Candidate Starts for LittleFella_57:
(Start: 51 @39855 has 50 MA's), (135, 40053), (139, 40062), (140, 40065), (152, 40095), (173, 40137), (178, 40146), (224, 40224), (Start: 232 @40236 has 1 MA's), (271, 40305), (296, 40338), (300, 40341), (423, 40521), (458, 40602), (473, 40629), (550, 40734), (572, 40776), (581, 40797), (668, 40956), (679, 40980), (701, 41037), (702, 41040), (706, 41058), (709, 41097), (724, 41157), (728, 41169), (735, 41187), (739, 41199), (748, 41220), (802, 41307), (817, 41310), (819, 41313), (871, 41379), (903, 41424), (918, 41451), (969, 41544), (1002, 41619), (1007, 41631), (1010, 41643), (1013, 41652), (1015, 41661), (1031, 41709), (1041, 41727), (1067, 41784), (1083, 41817), (1108, 41856),

Gene: Littleton_191 Start: 101431, Stop: 99569, Start Num: 119
Candidate Starts for Littleton_191:
(Start: 119 @101431 has 185 MA's), (Start: 145 @101371 has 1 MA's), (Start: 182 @101302 has 1 MA's), (420, 100930), (443, 100888), (449, 100870), (506, 100786), (518, 100762), (530, 100738), (532, 100735), (555, 100690), (579, 100639), (595, 100609), (601, 100597), (661, 100468), (713, 100375), (717, 100369), (746, 100306), (748, 100300), (811, 100204), (814, 100198), (879, 100087), (921, 100015), (948, 99982), (951, 99973), (1004, 99853), (1010, 99835), (1047, 99736), (1048, 99733), (1058, 99712), (1083, 99658), (1107, 99622),

Gene: Lizz_70 Start: 50158, Stop: 48272, Start Num: 49
Candidate Starts for Lizz_70:
(31, 50218), (Start: 49 @50158 has 8 MA's), (Start: 58 @50143 has 39 MA's), (83, 50080), (89, 50071), (96, 50059), (137, 49966), (161, 49903), (172, 49885), (202, 49828), (Start: 222 @49804 has 29 MA's), (315, 49645), (341, 49606), (348, 49597), (418, 49489), (470, 49381), (538, 49276), (586, 49177), (616, 49117), (666, 49030), (668, 49027), (745, 48922), (748, 48913), (755, 48901), (815, 48802), (918, 48685), (926, 48673), (943, 48646), (990, 48556), (997, 48541), (1013, 48487), (1031, 48430), (1092, 48304),

Gene: Lizzo_59 Start: 52326, Stop: 50794, Start Num: 222
Candidate Starts for Lizzo_59:
(102, 52581), (121, 52530), (142, 52479), (165, 52425), (181, 52395), (Start: 194 @52362 has 3 MA's), (201, 52353), (Start: 222 @52326 has 29 MA's), (321, 52158), (348, 52116), (380, 52068), (Start: 388 @52056 has 1 MA's), (396, 52044), (401, 52038), (412, 52017), (435, 51990), (520, 51849), (565, 51762), (572, 51747), (578, 51735), (591, 51705), (617, 51654), (639, 51627), (668, 51576), (679, 51552), (688, 51534), (695, 51516), (697, 51513), (732, 51486), (750, 51444), (780, 51399), (873, 51264), (883, 51249), (894, 51228), (957, 51171), (972, 51147), (999, 51087), (1000, 51081), (1002, 51075), (1004, 51069), (1020, 51018), (1030, 50994), (1047, 50955), (1052, 50943), (1054, 50940), (1097, 50847), (1107, 50832), (1119, 50811),

Gene: Loanshark_185 Start: 100581, Stop: 98719, Start Num: 119
Candidate Starts for Loanshark_185:
(Start: 119 @100581 has 185 MA's), (Start: 145 @100521 has 1 MA's), (Start: 182 @100452 has 1 MA's), (420, 100080), (443, 100038), (449, 100020), (506, 99936), (518, 99912), (530, 99888), (532,

99885), (555, 99840), (579, 99789), (595, 99759), (601, 99747), (661, 99618), (713, 99525), (717, 99519), (746, 99456), (748, 99450), (811, 99354), (814, 99348), (879, 99237), (921, 99165), (948, 99132), (951, 99123), (1004, 99003), (1010, 98985), (1047, 98886), (1048, 98883), (1058, 98862), (1083, 98808), (1107, 98772),

Gene: LolaVinca_186 Start: 101991, Stop: 100129, Start Num: 119
Candidate Starts for LolaVinca_186:
(Start: 119 @101991 has 185 MA's), (Start: 145 @101931 has 1 MA's), (Start: 182 @101862 has 1 MA's), (420, 101490), (443, 101448), (449, 101430), (506, 101346), (518, 101322), (530, 101298), (532, 101295), (555, 101250), (579, 101199), (595, 101169), (601, 101157), (661, 101028), (713, 100935), (717, 100929), (746, 100866), (748, 100860), (811, 100764), (814, 100758), (879, 100647), (921, 100575), (948, 100542), (951, 100533), (1004, 100413), (1010, 100395), (1047, 100296), (1048, 100293), (1058, 100272), (1083, 100218), (1107, 100182),

Gene: Lollipop1437_76 Start: 57598, Stop: 55541, Start Num: 35
Candidate Starts for Lollipop1437_76:
(6, 57886), (10, 57778), (Start: 35 @57598 has 37 MA's), (187, 57223), (255, 57115), (274, 57082), (309, 57031), (345, 56971), (348, 56968), (398, 56896), (409, 56878), (450, 56815), (453, 56809), (464, 56782), (520, 56716), (538, 56677), (547, 56659), (561, 56635), (618, 56512), (637, 56479), (668, 56416), (731, 56293), (767, 56224), (778, 56206), (842, 56101), (847, 56092), (889, 56032), (907, 55993), (925, 55963), (957, 55906), (989, 55846), (1000, 55816), (1011, 55783), (1080, 55618),

Gene: LookingGlass_187 Start: 100849, Stop: 98987, Start Num: 119
Candidate Starts for LookingGlass_187:
(Start: 119 @100849 has 185 MA's), (Start: 145 @100789 has 1 MA's), (Start: 182 @100720 has 1 MA's), (420, 100348), (443, 100306), (449, 100288), (506, 100204), (518, 100180), (530, 100156), (532, 100153), (555, 100108), (579, 100057), (595, 100027), (601, 100015), (661, 99886), (713, 99793), (717, 99787), (746, 99724), (748, 99718), (811, 99622), (814, 99616), (879, 99505), (921, 99433), (948, 99400), (951, 99391), (1004, 99271), (1010, 99253), (1047, 99154), (1048, 99151), (1058, 99130), (1083, 99076), (1107, 99040),

Gene: LordBart_42 Start: 26597, Stop: 28531, Start Num: 61
Candidate Starts for LordBart_42:
(13, 26357), (Start: 29 @26501 has 1 MA's), (Start: 57 @26591 has 1 MA's), (Start: 61 @26597 has 6 MA's), (115, 26744), (123, 26762), (202, 26921), (341, 27137), (348, 27146), (409, 27236), (433, 27278), (446, 27308), (518, 27440), (616, 27626), (625, 27644), (639, 27659), (668, 27716), (727, 27776), (759, 27848), (848, 27986), (894, 28052), (906, 28082), (907, 28085), (950, 28160), (990, 28238), (1010, 28298), (1044, 28388), (1054, 28406),

Gene: LordLeafolot_189 Start: 101603, Stop: 99741, Start Num: 119
Candidate Starts for LordLeafolot_189:
(Start: 119 @101603 has 185 MA's), (Start: 145 @101543 has 1 MA's), (Start: 182 @101474 has 1 MA's), (420, 101102), (443, 101060), (449, 101042), (506, 100958), (518, 100934), (530, 100910), (532, 100907), (555, 100862), (579, 100811), (595, 100781), (601, 100769), (661, 100640), (713, 100547), (717, 100541), (746, 100478), (748, 100472), (811, 100376), (814, 100370), (879, 100259), (921, 100187), (948, 100154), (951, 100145), (1004, 100025), (1010, 100007), (1047, 99908), (1048, 99905), (1058, 99884), (1083, 99830), (1107, 99794),

Gene: Lovelyunicorn_41 Start: 31119, Stop: 29731, Start Num: 360
Candidate Starts for Lovelyunicorn_41:
(Start: 49 @31770 has 8 MA's), (187, 31416), (220, 31341), (Start: 360 @31119 has 155 MA's), (445, 30975), (448, 30969), (449, 30966), (503, 30852), (518, 30825), (551, 30765), (562, 30738), (563, 30735), (611, 30639), (634, 30597), (721, 30426), (732, 30405), (743, 30378), (769, 30330), (836,

30270), (932, 30111), (966, 30057), (1000, 29973), (1002, 29967), (1007, 29955), (1045, 29859), (1068, 29805), (1070, 29802), (1081, 29778),

Gene: Lucky3_39 Start: 30647, Stop: 29256, Start Num: 358
Candidate Starts for Lucky3_39:
(Start: 358 @30647 has 23 MA's), (Start: 362 @30644 has 4 MA's), (384, 30614), (445, 30506), (449, 30497), (472, 30443), (515, 30362), (551, 30296), (563, 30266), (585, 30221), (611, 30170), (715, 29966), (721, 29957), (738, 29918), (743, 29906), (748, 29894), (750, 29891), (770, 29855), (782, 29846), (809, 29831), (836, 29795), (841, 29783), (847, 29771), (891, 29696), (932, 29636), (989, 29528), (993, 29519), (999, 29504), (1000, 29498), (1002, 29492), (1099, 29270),

Gene: LuckyBarnes_64 Start: 49560, Stop: 48223, Start Num: 346
Candidate Starts for LuckyBarnes_64:
(260, 49698), (299, 49635), (Start: 346 @49560 has 14 MA's), (400, 49485), (406, 49479), (432, 49449), (452, 49401), (460, 49383), (478, 49344), (508, 49290), (544, 49221), (577, 49149), (613, 49083), (648, 49002), (695, 48915), (714, 48897), (718, 48891), (725, 48882), (757, 48807), (801, 48735), (853, 48648), (861, 48633), (872, 48609), (874, 48606), (876, 48603), (1008, 48384), (1021, 48345), (1023, 48342), (1037, 48300), (1057, 48264),

Gene: LuckyLeo_57 Start: 40044, Stop: 41966, Start Num: 50
Candidate Starts for LuckyLeo_57:
(19, 39927), (20, 39948), (24, 39969), (Start: 37 @39999 has 1 MA's), (Start: 45 @40032 has 11 MA's), (Start: 50 @40044 has 13 MA's), (Start: 51 @40047 has 50 MA's), (Start: 58 @40062 has 39 MA's), (67, 40077), (75, 40110), (87, 40143), (90, 40146), (106, 40194), (115, 40212), (158, 40302), (168, 40320), (173, 40329), (178, 40338), (Start: 222 @40410 has 29 MA's), (296, 40530), (300, 40533), (335, 40593), (348, 40611), (399, 40683), (418, 40710), (509, 40845), (518, 40863), (538, 40905), (551, 40926), (554, 40932), (572, 40974), (581, 40995), (591, 41016), (610, 41052), (662, 41151), (666, 41160), (689, 41211), (745, 41307), (746, 41310), (832, 41421), (881, 41487), (903, 41511), (918, 41538), (1004, 41706), (1010, 41724), (1017, 41748), (1022, 41763), (1025, 41769), (1041, 41811), (1050, 41826), (1066, 41865), (1072, 41880), (1083, 41901), (1115, 41958),

Gene: LuckySocke_124 Start: 67230, Stop: 68801, Start Num: 244
Candidate Starts for LuckySocke_124:
(Start: 244 @67230 has 6 MA's), (307, 67311), (323, 67335), (372, 67401), (Start: 430 @67482 has 1 MA's), (458, 67548), (508, 67614), (513, 67623), (552, 67701), (573, 67752), (620, 67854), (630, 67875), (631, 67878), (656, 67929), (661, 67938), (668, 67953), (674, 67965), (696, 68013), (713, 68028), (881, 68298), (888, 68310), (903, 68334), (963, 68421), (1001, 68514), (1007, 68526), (1010, 68538), (1049, 68646), (1056, 68658), (1081, 68715), (1086, 68727), (1091, 68733), (1121, 68781),

Gene: Lucy_25 Start: 20556, Stop: 21950, Start Num: 333
Candidate Starts for Lucy_25:
(Start: 333 @20556 has 73 MA's), (381, 20613), (448, 20718), (449, 20721), (484, 20805), (512, 20838), (544, 20895), (582, 20976), (584, 20979), (588, 20985), (607, 21021), (616, 21039), (617, 21042), (634, 21075), (640, 21096), (677, 21147), (730, 21228), (740, 21255), (763, 21294), (773, 21315), (778, 21321), (798, 21354), (804, 21369), (827, 21396), (840, 21423), (858, 21459), (926, 21564), (939, 21582), (988, 21684), (989, 21687), (997, 21705), (998, 21708), (1007, 21732), (1009, 21741), (1038, 21828), (1065, 21879), (1066, 21882), (1084, 21918), (1094, 21942),

Gene: Ludgate_41 Start: 31117, Stop: 29729, Start Num: 360
Candidate Starts for Ludgate_41:
(220, 31339), (Start: 360 @31117 has 155 MA's), (445, 30973), (448, 30967), (449, 30964), (503, 30850), (518, 30823), (551, 30763), (562, 30736), (563, 30733), (611, 30637), (634, 30595), (721, 30424), (732, 30403), (738, 30388), (743, 30376), (769, 30328), (836, 30268), (887, 30172), (932,

30109), (966, 30055), (1000, 29971), (1002, 29965), (1007, 29953), (1033, 29878), (1045, 29857), (1068, 29803), (1070, 29800), (1081, 29776),

Gene: Luker_58 Start: 53170, Stop: 51665, Start Num: 221
Candidate Starts for Luker_58:
(102, 53425), (154, 53296), (Start: 194 @53206 has 3 MA's), (Start: 221 @53170 has 1 MA's), (Start: 294 @53077 has 29 MA's), (321, 53032), (380, 52942), (382, 52939), (386, 52933), (401, 52912), (444, 52849), (510, 52741), (520, 52723), (565, 52636), (572, 52621), (591, 52579), (640, 52498), (668, 52450), (688, 52408), (695, 52390), (697, 52387), (732, 52360), (755, 52309), (780, 52273), (810, 52222), (873, 52138), (886, 52117), (999, 51961), (1000, 51955), (1004, 51943), (1052, 51817), (1107, 51703),

Gene: Lukilu_178 Start: 101179, Stop: 99317, Start Num: 119
Candidate Starts for Lukilu_178:
(Start: 119 @101179 has 185 MA's), (Start: 145 @101119 has 1 MA's), (Start: 182 @101050 has 1 MA's), (420, 100678), (443, 100636), (449, 100618), (506, 100534), (518, 100510), (530, 100486), (532, 100483), (555, 100438), (579, 100387), (595, 100357), (601, 100345), (661, 100216), (713, 100123), (717, 100117), (746, 100054), (748, 100048), (811, 99952), (814, 99946), (879, 99835), (921, 99763), (948, 99730), (951, 99721), (1004, 99601), (1010, 99583), (1047, 99484), (1048, 99481), (1058, 99460), (1083, 99406), (1107, 99370),

Gene: Luna18_42 Start: 30536, Stop: 29130, Start Num: 360
Candidate Starts for Luna18_42:
(Start: 360 @30536 has 155 MA's), (380, 30506), (447, 30389), (448, 30386), (449, 30383), (474, 30323), (482, 30302), (503, 30260), (518, 30233), (562, 30146), (563, 30143), (583, 30101), (607, 30050), (686, 29888), (721, 29831), (748, 29771), (754, 29762), (763, 29750), (809, 29711), (828, 29684), (831, 29681), (836, 29675), (882, 29588), (891, 29576), (989, 29408), (993, 29399), (999, 29384), (1000, 29378), (1002, 29372), (1007, 29360), (1058, 29237), (1067, 29213), (1081, 29183),

Gene: Lunareta_187 Start: 102353, Stop: 100491, Start Num: 119
Candidate Starts for Lunareta_187:
(Start: 119 @102353 has 185 MA's), (Start: 145 @102293 has 1 MA's), (Start: 182 @102224 has 1 MA's), (420, 101852), (443, 101810), (449, 101792), (506, 101708), (518, 101684), (530, 101660), (532, 101657), (555, 101612), (579, 101561), (595, 101531), (601, 101519), (661, 101390), (713, 101297), (717, 101291), (746, 101228), (748, 101222), (811, 101126), (814, 101120), (879, 101009), (921, 100937), (948, 100904), (951, 100895), (1004, 100775), (1010, 100757), (1047, 100658), (1048, 100655), (1058, 100634), (1083, 100580), (1107, 100544),

Gene: Lupine_78 Start: 49414, Stop: 47891, Start Num: 250
Candidate Starts for Lupine_78:
(130, 49675), (146, 49633), (Start: 250 @49414 has 29 MA's), (336, 49303), (363, 49264), (375, 49255), (435, 49159), (451, 49117), (459, 49099), (482, 49045), (515, 49000), (568, 48895), (626, 48772), (640, 48736), (660, 48697), (690, 48631), (713, 48604), (726, 48586), (737, 48556), (766, 48496), (784, 48466), (792, 48454), (795, 48448), (986, 48139), (995, 48121), (1010, 48079), (1012, 48073), (1017, 48055), (1018, 48052),

Gene: Lyell_84 Start: 49739, Stop: 48219, Start Num: 250
Candidate Starts for Lyell_84:
(230, 49772), (Start: 250 @49739 has 29 MA's), (268, 49706), (281, 49688), (375, 49580), (419, 49514), (449, 49448), (515, 49325), (523, 49310), (552, 49253), (566, 49220), (568, 49217), (598, 49154), (622, 49103), (626, 49094), (631, 49085), (641, 49055), (652, 49031), (673, 48992), (681, 48977), (713, 48926), (726, 48908), (784, 48788), (814, 48743), (995, 48449), (1005, 48419), (1020, 48374), (1040, 48323), (1070, 48260),

Gene: Lymara_87 Start: 57699, Stop: 59444, Start Num: 159
Candidate Starts for Lymara_87:
(101, 57546), (Start: 159 @57699 has 18 MA's), (168, 57720), (205, 57798), (215, 57822), (238, 57867), (272, 57930), (370, 58089), (375, 58098), (387, 58116), (406, 58140), (418, 58161), (441, 58194), (444, 58200), (500, 58320), (508, 58332), (511, 58338), (529, 58374), (551, 58410), (571, 58461), (613, 58542), (680, 58674), (682, 58677), (692, 58701), (714, 58725), (725, 58737), (738, 58773), (747, 58794), (779, 58839), (818, 58905), (827, 58917), (835, 58926), (841, 58947), (842, 58950), (864, 58989), (866, 58995), (877, 59019), (928, 59100), (931, 59106), (942, 59124), (960, 59151), (964, 59157), (977, 59187), (978, 59193), (1006, 59253), (1009, 59265), (1021, 59304), (1024, 59310), (1038, 59349),

Gene: MCubed_40 Start: 30968, Stop: 29556, Start Num: 360
Candidate Starts for MCubed_40:
(Start: 358 @30971 has 23 MA's), (Start: 360 @30968 has 155 MA's), (384, 30938), (Start: 388 @30932 has 1 MA's), (411, 30899), (503, 30707), (518, 30680), (551, 30620), (562, 30593), (563, 30590), (583, 30548), (611, 30494), (634, 30452), (686, 30338), (721, 30281), (732, 30260), (738, 30245), (743, 30233), (748, 30221), (750, 30218), (763, 30200), (809, 30119), (836, 30083), (862, 30029), (887, 29987), (907, 29957), (917, 29942), (923, 29933), (930, 29927), (958, 29885), (989, 29816), (999, 29792), (1000, 29786), (1002, 29780), (1007, 29768), (1045, 29672), (1048, 29663), (1058, 29645), (1061, 29633), (1065, 29627), (1083, 29588),

Gene: Maby2021_187 Start: 101711, Stop: 99849, Start Num: 119
Candidate Starts for Maby2021_187:
(Start: 119 @101711 has 185 MA's), (Start: 145 @101651 has 1 MA's), (Start: 182 @101582 has 1 MA's), (420, 101210), (443, 101168), (449, 101150), (506, 101066), (518, 101042), (530, 101018), (532, 101015), (555, 100970), (579, 100919), (595, 100889), (601, 100877), (661, 100748), (713, 100655), (717, 100649), (746, 100586), (748, 100580), (811, 100484), (814, 100478), (879, 100367), (921, 100295), (948, 100262), (951, 100253), (1004, 100133), (1010, 100115), (1047, 100016), (1048, 100013), (1058, 99992), (1083, 99938), (1107, 99902),

Gene: MacGully_81 Start: 56374, Stop: 54335, Start Num: 37
Candidate Starts for MacGully_81:
(Start: 37 @56374 has 1 MA's), (Start: 58 @56305 has 39 MA's), (62, 56299), (202, 55975), (224, 55951), (271, 55870), (274, 55867), (341, 55765), (345, 55756), (367, 55726), (409, 55660), (454, 55588), (509, 55519), (543, 55447), (572, 55390), (668, 55210), (679, 55186), (710, 55123), (731, 55087), (767, 55018), (769, 55012), (778, 55000), (889, 54826), (1000, 54604), (1011, 54571), (1025, 54529), (1036, 54499), (1041, 54490), (1055, 54466), (1058, 54457), (1074, 54415),

Gene: Madi_50 Start: 36692, Stop: 38746, Start Num: 53
Candidate Starts for Madi_50:
(Start: 53 @36692 has 9 MA's), (67, 36716), (90, 36779), (123, 36863), (Start: 144 @36905 has 3 MA's), (268, 37127), (296, 37163), (345, 37238), (373, 37277), (411, 37319), (423, 37337), (433, 37358), (439, 37370), (466, 37430), (473, 37445), (506, 37463), (543, 37541), (554, 37556), (555, 37559), (572, 37598), (581, 37619), (637, 37721), (668, 37778), (677, 37799), (679, 37802), (686, 37814), (702, 37862), (703, 37868), (708, 37916), (716, 37949), (723, 37973), (728, 37991), (739, 38021), (801, 38144), (819, 38177), (829, 38189), (842, 38204), (871, 38243), (903, 38288), (918, 38315), (967, 38399), (997, 38462), (1010, 38504), (1013, 38513), (1015, 38522), (1031, 38570), (1036, 38579), (1041, 38591), (1050, 38606), (1067, 38648),

Gene: Madruga_74 Start: 48812, Stop: 50845, Start Num: 47
Candidate Starts for Madruga_74:

(26, 48722), (Start: 47 @48812 has 4 MA's), (63, 48836), (82, 48899), (108, 48965), (138, 49016), (139, 49019), (187, 49127), (202, 49160), (229, 49199), (246, 49223), (281, 49286), (296, 49304), (309, 49325), (314, 49331), (Start: 358 @49400 has 23 MA's), (376, 49427), (384, 49439), (410, 49472), (462, 49574), (543, 49697), (561, 49727), (610, 49832), (618, 49850), (666, 49940), (668, 49943), (705, 50045), (716, 50084), (727, 50111), (731, 50123), (751, 50171), (763, 50189), (778, 50216), (784, 50228), (791, 50237), (907, 50375), (933, 50420), (985, 50525), (1031, 50654), (1050, 50687), (1058, 50705), (1081, 50759), (1102, 50798),

Gene: MaeLinda_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for MaeLinda_41:
(187, 31415), (220, 31340), (Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (449, 30965), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (567, 30728), (611, 30638), (634, 30596), (721, 30425), (738, 30389), (743, 30377), (763, 30344), (769, 30329), (836, 30269), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: Magritte_46 Start: 45422, Stop: 47152, Start Num: 257
Candidate Starts for Magritte_46:
(Start: 257 @45422 has 1 MA's), (264, 45440), (380, 45632), (432, 45725), (449, 45767), (462, 45797), (471, 45827), (475, 45839), (496, 45893), (498, 45896), (548, 45992), (557, 46013), (575, 46055), (594, 46097), (620, 46160), (645, 46226), (662, 46256), (687, 46313), (798, 46502), (815, 46535), (871, 46631), (875, 46637), (888, 46658), (951, 46763), (955, 46769), (1011, 46904), (1021, 46937), (1044, 46994), (1073, 47063),

Gene: Maguvora_189 Start: 101521, Stop: 99659, Start Num: 119
Candidate Starts for Maguvora_189:
(Start: 119 @101521 has 185 MA's), (Start: 145 @101461 has 1 MA's), (Start: 182 @101392 has 1 MA's), (420, 101020), (443, 100978), (449, 100960), (506, 100876), (518, 100852), (530, 100828), (532, 100825), (555, 100780), (579, 100729), (595, 100699), (601, 100687), (661, 100558), (713, 100465), (717, 100459), (746, 100396), (748, 100390), (811, 100294), (814, 100288), (879, 100177), (921, 100105), (948, 100072), (951, 100063), (1004, 99943), (1010, 99925), (1047, 99826), (1048, 99823), (1058, 99802), (1083, 99748), (1107, 99712),

Gene: Makima_38 Start: 27813, Stop: 26014, Start Num: 64
Candidate Starts for Makima_38:
(Start: 64 @27813 has 19 MA's), (Start: 80 @27756 has 2 MA's), (109, 27693), (246, 27438), (Start: 252 @27426 has 13 MA's), (303, 27342), (447, 27204), (511, 27054), (528, 27018), (545, 26982), (572, 26928), (581, 26907), (662, 26757), (671, 26736), (729, 26679), (731, 26673), (775, 26628), (790, 26604), (794, 26598), (806, 26574), (842, 26544), (847, 26535), (900, 26460), (906, 26442), (907, 26439), (993, 26286), (1013, 26226), (1030, 26178), (1089, 26040), (1092, 26037),

Gene: Makoto_25 Start: 20576, Stop: 21970, Start Num: 333
Candidate Starts for Makoto_25:
(Start: 333 @20576 has 73 MA's), (381, 20633), (448, 20738), (484, 20825), (512, 20858), (544, 20915), (566, 20966), (582, 20996), (584, 20999), (588, 21005), (607, 21041), (616, 21059), (617, 21062), (634, 21095), (640, 21116), (730, 21248), (740, 21275), (763, 21314), (773, 21335), (778, 21341), (798, 21374), (804, 21389), (814, 21398), (840, 21443), (858, 21479), (888, 21521), (926, 21584), (939, 21602), (988, 21704), (989, 21707), (997, 21725), (998, 21728), (1007, 21752), (1009, 21761), (1038, 21848), (1084, 21938), (1094, 21962),

Gene: MamaPearl_26 Start: 21743, Stop: 23140, Start Num: 333
Candidate Starts for MamaPearl_26:

(Start: 333 @21743 has 73 MA's), (381, 21803), (448, 21908), (449, 21911), (484, 21995), (512, 22028), (540, 22079), (544, 22085), (582, 22166), (588, 22175), (607, 22211), (616, 22229), (617, 22232), (634, 22265), (640, 22286), (730, 22418), (758, 22475), (763, 22484), (773, 22505), (778, 22511), (798, 22544), (804, 22559), (842, 22619), (858, 22649), (910, 22730), (939, 22772), (957, 22805), (983, 22868), (989, 22877), (994, 22889), (997, 22895), (1002, 22910), (1007, 22922), (1009, 22931), (1038, 23018), (1067, 23075), (1084, 23108),

Gene: ManRay_40 Start: 30816, Stop: 29428, Start Num: 360
Candidate Starts for ManRay_40:
(220, 31038), (Start: 360 @30816 has 155 MA's), (445, 30672), (448, 30666), (449, 30663), (503, 30549), (518, 30522), (551, 30462), (562, 30435), (563, 30432), (611, 30336), (634, 30294), (721, 30123), (732, 30102), (738, 30087), (769, 30027), (836, 29967), (887, 29871), (932, 29808), (966, 29754), (1000, 29670), (1002, 29664), (1007, 29652), (1045, 29556), (1068, 29502), (1070, 29499), (1081, 29475),

Gene: Mandalorian_39 Start: 30635, Stop: 29223, Start Num: 360
Candidate Starts for Mandalorian_39:
(Start: 358 @30638 has 23 MA's), (Start: 360 @30635 has 155 MA's), (384, 30605), (Start: 388 @30599 has 1 MA's), (448, 30491), (450, 30485), (503, 30374), (518, 30347), (544, 30296), (551, 30287), (562, 30260), (563, 30257), (583, 30215), (611, 30161), (686, 30005), (717, 29954), (721, 29948), (732, 29927), (735, 29921), (738, 29912), (743, 29900), (748, 29888), (796, 29810), (836, 29750), (839, 29744), (862, 29696), (887, 29654), (932, 29591), (944, 29579), (957, 29555), (958, 29552), (989, 29483), (993, 29474), (999, 29459), (1000, 29453), (1002, 29447), (1007, 29435), (1048, 29330), (1058, 29312), (1061, 29300), (1083, 29255),

Gene: Mangeria_188 Start: 101504, Stop: 99642, Start Num: 119
Candidate Starts for Mangeria_188:
(Start: 119 @101504 has 185 MA's), (Start: 145 @101444 has 1 MA's), (Start: 182 @101375 has 1 MA's), (420, 101003), (443, 100961), (449, 100943), (506, 100859), (518, 100835), (530, 100811), (532, 100808), (555, 100763), (579, 100712), (595, 100682), (601, 100670), (661, 100541), (713, 100448), (717, 100442), (746, 100379), (748, 100373), (811, 100277), (814, 100271), (879, 100160), (921, 100088), (948, 100055), (951, 100046), (1004, 99926), (1010, 99908), (1047, 99809), (1048, 99806), (1058, 99785), (1083, 99731), (1107, 99695),

Gene: Mareelih_167 Start: 96276, Stop: 94366, Start Num: 59
Candidate Starts for Mareelih_167:
(Start: 59 @96276 has 5 MA's), (Start: 144 @96072 has 3 MA's), (164, 96024), (192, 95979), (229, 95898), (239, 95886), (298, 95781), (314, 95754), (444, 95649), (453, 95625), (530, 95460), (668, 95193), (671, 95184), (686, 95157), (745, 95088), (888, 94839), (918, 94773), (933, 94749), (1002, 94614), (1021, 94554), (1052, 94482),

Gene: Maria1952_26 Start: 21732, Stop: 23129, Start Num: 333
Candidate Starts for Maria1952_26:
(Start: 333 @21732 has 73 MA's), (381, 21792), (441, 21879), (448, 21897), (449, 21900), (484, 21984), (486, 21990), (512, 22017), (540, 22068), (544, 22074), (566, 22125), (571, 22134), (582, 22155), (588, 22164), (607, 22200), (617, 22221), (634, 22254), (640, 22275), (646, 22293), (651, 22299), (677, 22326), (686, 22338), (692, 22353), (730, 22407), (753, 22458), (758, 22464), (763, 22473), (766, 22479), (778, 22500), (798, 22533), (804, 22548), (814, 22557), (888, 22680), (910, 22719), (926, 22743), (934, 22755), (988, 22863), (990, 22869), (994, 22878), (997, 22884), (1009, 22920), (1038, 23007), (1084, 23097), (1094, 23121),

Gene: Marietta_72 Start: 52748, Stop: 50667, Start Num: 35
Candidate Starts for Marietta_72:

(9, 52940), (11, 52922), (18, 52847), (Start: 35 @52748 has 37 MA's), (271, 52229), (296, 52196), (309, 52175), (343, 52121), (345, 52115), (348, 52112), (409, 52022), (411, 52019), (450, 51959), (547, 51803), (618, 51656), (668, 51548), (679, 51524), (731, 51422), (755, 51368), (767, 51353), (814, 51272), (842, 51233), (886, 51170), (903, 51131), (907, 51125), (925, 51095), (989, 50978), (1011, 50915), (1031, 50852), (1041, 50834), (1080, 50750),

Gene: Marky_44 Start: 31624, Stop: 33015, Start Num: 349
Candidate Starts for Marky_44:
(334, 31615), (Start: 349 @31624 has 3 MA's), (353, 31630), (400, 31699), (416, 31723), (448, 31768), (500, 31861), (540, 31927), (599, 32038), (612, 32068), (613, 32071), (678, 32194), (749, 32329), (766, 32356), (778, 32377), (791, 32398), (798, 32410), (870, 32539), (914, 32608), (926, 32629), (939, 32647), (948, 32665), (975, 32719), (988, 32749), (1009, 32806), (1010, 32809), (1026, 32857), (1058, 32926), (1082, 32980), (1090, 32998),

Gene: Martin_42 Start: 31123, Stop: 29735, Start Num: 360
Candidate Starts for Martin_42:
(Start: 49 @31774 has 8 MA's), (187, 31420), (220, 31345), (Start: 360 @31123 has 155 MA's), (445, 30979), (448, 30973), (449, 30970), (503, 30856), (518, 30829), (551, 30769), (562, 30742), (563, 30739), (611, 30643), (634, 30601), (715, 30439), (721, 30430), (732, 30409), (738, 30394), (743, 30382), (769, 30334), (836, 30274), (887, 30178), (932, 30115), (966, 30061), (1000, 29977), (1002, 29971), (1007, 29959), (1045, 29863), (1068, 29809), (1070, 29806), (1081, 29782),

Gene: Maselop_72 Start: 53166, Stop: 51130, Start Num: 36
Candidate Starts for Maselop_72:
(12, 53334), (Start: 36 @53166 has 6 MA's), (56, 53100), (75, 53058), (115, 52953), (Start: 200 @52773 has 9 MA's), (Start: 243 @52716 has 5 MA's), (271, 52665), (281, 52650), (341, 52560), (348, 52548), (409, 52455), (454, 52383), (509, 52314), (543, 52242), (572, 52185), (668, 52005), (679, 51981), (710, 51918), (731, 51882), (778, 51795), (856, 51663), (888, 51624), (889, 51621), (907, 51576), (989, 51429), (1011, 51366), (1025, 51324), (1041, 51285), (1055, 51261),

Gene: Matsumoto_187 Start: 100945, Stop: 99083, Start Num: 119
Candidate Starts for Matsumoto_187:
(Start: 119 @100945 has 185 MA's), (Start: 145 @100885 has 1 MA's), (Start: 182 @100816 has 1 MA's), (420, 100444), (443, 100402), (449, 100384), (506, 100300), (518, 100276), (530, 100252), (532, 100249), (555, 100204), (579, 100153), (595, 100123), (601, 100111), (661, 99982), (713, 99889), (717, 99883), (746, 99820), (748, 99814), (811, 99718), (814, 99712), (879, 99601), (921, 99529), (948, 99496), (951, 99487), (1004, 99367), (1010, 99349), (1047, 99250), (1048, 99247), (1058, 99226), (1083, 99172), (1107, 99136),

Gene: Maturis_186 Start: 101211, Stop: 99349, Start Num: 119
Candidate Starts for Maturis_186:
(Start: 119 @101211 has 185 MA's), (Start: 145 @101151 has 1 MA's), (Start: 182 @101082 has 1 MA's), (420, 100710), (443, 100668), (449, 100650), (506, 100566), (518, 100542), (530, 100518), (532, 100515), (555, 100470), (579, 100419), (595, 100389), (601, 100377), (661, 100248), (713, 100155), (717, 100149), (746, 100086), (748, 100080), (811, 99984), (814, 99978), (879, 99867), (921, 99795), (948, 99762), (951, 99753), (1004, 99633), (1010, 99615), (1047, 99516), (1048, 99513), (1058, 99492), (1083, 99438), (1107, 99402),

Gene: Mbo2_52 Start: 42925, Stop: 41438, Start Num: 248
Candidate Starts for Mbo2_52:
(191, 43012), (Start: 248 @42925 has 4 MA's), (301, 42838), (321, 42802), (336, 42784), (348, 42769), (Start: 358 @42754 has 23 MA's), (369, 42742), (380, 42730), (384, 42724), (411, 42682), (477, 42559), (558, 42445), (589, 42370), (617, 42316), (666, 42241), (668, 42238), (679, 42214), (697,

42175), (737, 42136), (761, 42094), (886, 41911), (927, 41851), (945, 41833), (972, 41788), (974, 41785), (994, 41737), (998, 41728), (1004, 41707), (1010, 41689), (1017, 41665), (1026, 41641), (1047, 41599), (1058, 41572), (1061, 41560), (1074, 41530), (1083, 41515), (1107, 41473),

Gene: McGalleon_43 Start: 32555, Stop: 31152, Start Num: 360
Candidate Starts for McGalleon_43:
(208, 32789), (234, 32738), (285, 32648), (Start: 360 @32555 has 155 MA's), (445, 32411), (448, 32405), (474, 32342), (503, 32288), (518, 32261), (551, 32201), (562, 32174), (563, 32171), (608, 32078), (611, 32075), (634, 32033), (715, 31871), (721, 31862), (732, 31841), (743, 31814), (771, 31763), (836, 31706), (862, 31652), (887, 31610), (917, 31565), (992, 31433), (1000, 31409), (1002, 31403), (1007, 31391), (1045, 31295), (1058, 31268), (1068, 31241), (1081, 31214), (1099, 31184),

Gene: McGee_188 Start: 100139, Stop: 98277, Start Num: 119
Candidate Starts for McGee_188:
(Start: 119 @100139 has 185 MA's), (Start: 145 @100079 has 1 MA's), (Start: 182 @100010 has 1 MA's), (420, 99638), (443, 99596), (449, 99578), (506, 99494), (518, 99470), (530, 99446), (532, 99443), (555, 99398), (579, 99347), (595, 99317), (601, 99305), (661, 99176), (713, 99083), (717, 99077), (746, 99014), (748, 99008), (811, 98912), (814, 98906), (879, 98795), (921, 98723), (948, 98690), (951, 98681), (1004, 98561), (1010, 98543), (1047, 98444), (1048, 98441), (1058, 98420), (1083, 98366), (1107, 98330),

Gene: McWolfish_185 Start: 100478, Stop: 98616, Start Num: 119
Candidate Starts for McWolfish_185:
(Start: 119 @100478 has 185 MA's), (Start: 145 @100418 has 1 MA's), (Start: 182 @100349 has 1 MA's), (420, 99977), (443, 99935), (449, 99917), (506, 99833), (518, 99809), (530, 99785), (532, 99782), (555, 99737), (579, 99686), (595, 99656), (601, 99644), (661, 99515), (713, 99422), (717, 99416), (746, 99353), (748, 99347), (811, 99251), (814, 99245), (879, 99134), (921, 99062), (948, 99029), (951, 99020), (1004, 98900), (1010, 98882), (1047, 98783), (1048, 98780), (1058, 98759), (1083, 98705), (1107, 98669),

Gene: Megamind_185 Start: 100769, Stop: 98907, Start Num: 119
Candidate Starts for Megamind_185:
(Start: 119 @100769 has 185 MA's), (Start: 145 @100709 has 1 MA's), (Start: 182 @100640 has 1 MA's), (420, 100268), (443, 100226), (449, 100208), (506, 100124), (518, 100100), (530, 100076), (532, 100073), (555, 100028), (579, 99977), (595, 99947), (601, 99935), (661, 99806), (713, 99713), (717, 99707), (746, 99644), (748, 99638), (811, 99542), (814, 99536), (879, 99425), (921, 99353), (948, 99320), (951, 99311), (1004, 99191), (1010, 99173), (1047, 99074), (1048, 99071), (1058, 99050), (1083, 98996), (1107, 98960),

Gene: MeganNoll_29 Start: 22157, Stop: 23557, Start Num: 333
Candidate Starts for MeganNoll_29:
(Start: 333 @22157 has 73 MA's), (381, 22220), (448, 22325), (449, 22328), (484, 22412), (512, 22445), (540, 22496), (544, 22502), (582, 22583), (584, 22586), (588, 22592), (607, 22628), (616, 22646), (617, 22649), (640, 22703), (677, 22754), (730, 22835), (740, 22862), (758, 22892), (763, 22901), (778, 22928), (798, 22961), (804, 22976), (840, 23030), (849, 23051), (857, 23063), (863, 23075), (990, 23297), (994, 23306), (997, 23312), (1009, 23348), (1030, 23408), (1038, 23435), (1084, 23525),

Gene: Megatron06_62 Start: 46630, Stop: 48687, Start Num: 45
Candidate Starts for Megatron06_62:
(Start: 45 @46630 has 11 MA's), (72, 46690), (73, 46693), (106, 46786), (111, 46798), (120, 46819), (Start: 182 @46942 has 1 MA's), (183, 46945), (187, 46954), (202, 46987), (206, 47008), (229, 47056), (255, 47098), (296, 47161), (309, 47182), (314, 47188), (348, 47242), (462, 47428), (466, 47440),

(474, 47458), (506, 47473), (509, 47479), (668, 47797), (669, 47800), (689, 47845), (727, 47896), (731, 47908), (778, 47998), (784, 48010), (802, 48043), (819, 48067), (826, 48076), (907, 48166), (926, 48199), (985, 48310), (989, 48313), (990, 48316), (992, 48319), (1004, 48355), (1010, 48373), (1031, 48439), (1041, 48457), (1126, 48634),

Gene: Melpomini_182 Start: 99245, Stop: 97383, Start Num: 119
Candidate Starts for Melpomini_182:
(Start: 119 @99245 has 185 MA's), (Start: 145 @99185 has 1 MA's), (Start: 182 @99116 has 1 MA's), (420, 98744), (443, 98702), (449, 98684), (506, 98600), (518, 98576), (530, 98552), (532, 98549), (555, 98504), (579, 98453), (595, 98423), (601, 98411), (661, 98282), (713, 98189), (717, 98183), (746, 98120), (748, 98114), (811, 98018), (814, 98012), (879, 97901), (921, 97829), (948, 97796), (951, 97787), (1004, 97667), (1010, 97649), (1047, 97550), (1048, 97547), (1058, 97526), (1083, 97472), (1107, 97436),

Gene: MerCougar_75 Start: 57668, Stop: 55593, Start Num: 35
Candidate Starts for MerCougar_75:
(Start: 35 @57668 has 37 MA's), (75, 57548), (Start: 93 @57503 has 1 MA's), (94, 57500), (Start: 200 @57257 has 9 MA's), (Start: 243 @57200 has 5 MA's), (271, 57149), (309, 57095), (348, 57032), (409, 56942), (411, 56939), (426, 56915), (450, 56879), (547, 56723), (561, 56699), (618, 56576), (668, 56465), (679, 56441), (731, 56342), (755, 56288), (791, 56234), (814, 56192), (842, 56153), (856, 56126), (889, 56084), (903, 56051), (925, 56015), (950, 55970), (957, 55958), (989, 55898), (1041, 55754), (1080, 55670),

Gene: Mercedes_36 Start: 28234, Stop: 26813, Start Num: 360
Candidate Starts for Mercedes_36:
(Start: 360 @28234 has 155 MA's), (384, 28198), (435, 28114), (472, 28027), (474, 28021), (509, 27949), (515, 27937), (562, 27844), (563, 27841), (587, 27790), (686, 27586), (721, 27529), (743, 27481), (763, 27448), (770, 27430), (836, 27334), (840, 27325), (862, 27280), (865, 27274), (887, 27238), (917, 27193), (932, 27175), (989, 27067), (993, 27058), (999, 27043), (1000, 27037), (1067, 26872),

Gene: Merida02_43 Start: 31117, Stop: 29729, Start Num: 360
Candidate Starts for Merida02_43:
(220, 31339), (Start: 360 @31117 has 155 MA's), (445, 30973), (448, 30967), (449, 30964), (503, 30850), (518, 30823), (551, 30763), (562, 30736), (563, 30733), (567, 30727), (611, 30637), (634, 30595), (721, 30424), (738, 30388), (743, 30376), (763, 30343), (769, 30328), (836, 30268), (887, 30172), (932, 30109), (966, 30055), (1000, 29971), (1002, 29965), (1007, 29953), (1045, 29857), (1068, 29803), (1070, 29800), (1081, 29776),

Gene: Microdon_41 Start: 30843, Stop: 32237, Start Num: 346
Candidate Starts for Microdon_41:
(Start: 346 @30843 has 14 MA's), (Start: 349 @30846 has 3 MA's), (400, 30921), (416, 30945), (421, 30951), (443, 30975), (448, 30990), (449, 30993), (481, 31065), (493, 31080), (525, 31116), (571, 31215), (678, 31416), (749, 31551), (766, 31578), (778, 31599), (827, 31677), (842, 31710), (847, 31719), (870, 31761), (910, 31827), (914, 31830), (926, 31851), (939, 31869), (948, 31887), (975, 31941), (988, 31971), (1009, 32028), (1010, 32031), (1026, 32079), (1041, 32118), (1047, 32133), (1082, 32202), (1090, 32220), (1094, 32229),

Gene: MikeLiesIn_189 Start: 101905, Stop: 100043, Start Num: 119
Candidate Starts for MikeLiesIn_189:
(Start: 119 @101905 has 185 MA's), (Start: 145 @101845 has 1 MA's), (Start: 182 @101776 has 1 MA's), (420, 101404), (443, 101362), (449, 101344), (506, 101260), (518, 101236), (530, 101212), (532, 101209), (555, 101164), (579, 101113), (595, 101083), (601, 101071), (661, 100942), (713,

100849), (717, 100843), (746, 100780), (748, 100774), (811, 100678), (814, 100672), (879, 100561), (921, 100489), (948, 100456), (951, 100447), (1004, 100327), (1010, 100309), (1047, 100210), (1048, 100207), (1058, 100186), (1083, 100132), (1107, 100096),

Gene: Mikro_183 Start: 102145, Stop: 100283, Start Num: 119
Candidate Starts for Mikro_183:
(Start: 119 @102145 has 185 MA's), (Start: 145 @102085 has 1 MA's), (Start: 182 @102016 has 1 MA's), (420, 101644), (443, 101602), (449, 101584), (506, 101500), (518, 101476), (530, 101452), (532, 101449), (555, 101404), (579, 101353), (595, 101323), (601, 101311), (661, 101182), (713, 101089), (717, 101083), (746, 101020), (748, 101014), (811, 100918), (814, 100912), (879, 100801), (921, 100729), (948, 100696), (951, 100687), (1004, 100567), (1010, 100549), (1047, 100450), (1048, 100447), (1058, 100426), (1083, 100372), (1107, 100336),

Gene: Milani_33 Start: 22173, Stop: 23600, Start Num: 339
Candidate Starts for Milani_33:
(Start: 339 @22173 has 21 MA's), (540, 22527), (542, 22530), (555, 22551), (599, 22638), (778, 22974), (791, 22995), (804, 23022), (824, 23049), (827, 23052), (842, 23085), (860, 23121), (910, 23196), (926, 23220), (963, 23283), (975, 23304), (998, 23358), (1009, 23391), (1013, 23403), (1026, 23442), (1038, 23478), (1042, 23484), (1047, 23496), (1058, 23511), (1078, 23559), (1084, 23568), (1094, 23592),

Gene: MillyPhilly_41 Start: 31111, Stop: 29723, Start Num: 360
Candidate Starts for MillyPhilly_41:
(Start: 49 @31762 has 8 MA's), (187, 31408), (220, 31333), (Start: 360 @31111 has 155 MA's), (445, 30967), (448, 30961), (449, 30958), (503, 30844), (518, 30817), (551, 30757), (562, 30730), (563, 30727), (611, 30631), (634, 30589), (715, 30427), (721, 30418), (732, 30397), (738, 30382), (743, 30370), (769, 30322), (836, 30262), (887, 30166), (932, 30103), (966, 30049), (1000, 29965), (1002, 29959), (1007, 29947), (1045, 29851), (1068, 29797), (1070, 29794), (1081, 29770),

Gene: Mima20_60 Start: 40803, Stop: 42716, Start Num: 51
Candidate Starts for Mima20_60:
(Start: 50 @40800 has 13 MA's), (Start: 51 @40803 has 50 MA's), (Start: 58 @40815 has 39 MA's), (75, 40863), (87, 40896), (115, 40965), (158, 41055), (173, 41082), (178, 41091), (Start: 222 @41163 has 29 MA's), (296, 41283), (335, 41346), (399, 41436), (418, 41463), (506, 41592), (518, 41616), (538, 41658), (562, 41706), (572, 41727), (581, 41748), (610, 41805), (638, 41859), (662, 41901), (689, 41961), (745, 42057), (746, 42060), (881, 42237), (918, 42288), (969, 42378), (989, 42414), (992, 42420), (1010, 42474), (1022, 42513), (1066, 42615), (1072, 42630), (1083, 42651),

Gene: Mimi_101 Start: 80085, Stop: 81923, Start Num: 60
Candidate Starts for Mimi_101:
(Start: 60 @80085 has 17 MA's), (88, 80166), (123, 80244), (167, 80340), (224, 80400), (Start: 243 @80430 has 5 MA's), (314, 80550), (344, 80601), (446, 80661), (605, 81000), (638, 81057), (647, 81078), (671, 81123), (729, 81180), (731, 81186), (745, 81219), (750, 81231), (757, 81243), (784, 81288), (807, 81327), (852, 81384), (869, 81390), (888, 81423), (925, 81492), (970, 81576), (1018, 81693), (1093, 81867), (1118, 81909),

Gene: MiniVolent_38 Start: 30515, Stop: 29145, Start Num: 360
Candidate Starts for MiniVolent_38:
(Start: 358 @30518 has 23 MA's), (Start: 360 @30515 has 155 MA's), (Start: 430 @30413 has 1 MA's), (503, 30254), (518, 30227), (551, 30167), (562, 30140), (563, 30137), (603, 30056), (611, 30041), (721, 29828), (732, 29807), (735, 29801), (738, 29792), (748, 29768), (763, 29747), (769, 29732), (809, 29708), (836, 29672), (862, 29618), (932, 29513), (944, 29501), (958, 29474), (973, 29441), (989, 29405), (993, 29396), (999, 29381), (1000, 29375), (1002, 29369), (1007, 29357), (1045,

29261), (1048, 29252), (1058, 29234), (1061, 29222), (1081, 29180), (1098, 29153),

Gene: Minos_58 Start: 52601, Stop: 51189, Start Num: 294
Candidate Starts for Minos_58:
(102, 52949), (154, 52820), (192, 52733), (Start: 194 @52730 has 3 MA's), (Start: 294 @52601 has 29 MA's), (321, 52556), (380, 52466), (382, 52463), (386, 52457), (401, 52436), (444, 52373), (510, 52265), (520, 52247), (565, 52160), (572, 52145), (591, 52103), (640, 52022), (668, 51974), (688, 51932), (695, 51914), (697, 51911), (732, 51884), (755, 51833), (780, 51797), (810, 51746), (873, 51662), (886, 51641), (999, 51485), (1000, 51479), (1004, 51467), (1052, 51341), (1107, 51227),

Gene: Mireles_41 Start: 27371, Stop: 25572, Start Num: 64
Candidate Starts for Mireles_41:
(Start: 64 @27371 has 19 MA's), (Start: 80 @27314 has 2 MA's), (109, 27251), (246, 26996), (Start: 252 @26984 has 13 MA's), (303, 26900), (369, 26789), (447, 26762), (511, 26612), (528, 26576), (545, 26540), (572, 26486), (581, 26465), (671, 26294), (729, 26237), (731, 26231), (775, 26186), (790, 26162), (794, 26156), (806, 26132), (842, 26102), (847, 26093), (900, 26018), (906, 26000), (907, 25997), (993, 25844), (1013, 25784), (1030, 25736), (1089, 25598), (1092, 25595),

Gene: Misaeng_29 Start: 22230, Stop: 23621, Start Num: 333
Candidate Starts for Misaeng_29:
(Start: 333 @22230 has 73 MA's), (406, 22317), (448, 22389), (449, 22392), (477, 22458), (484, 22476), (512, 22509), (544, 22566), (582, 22647), (588, 22656), (607, 22692), (616, 22710), (634, 22746), (640, 22767), (646, 22785), (677, 22818), (730, 22899), (740, 22926), (753, 22950), (773, 22986), (778, 22992), (798, 23025), (804, 23040), (814, 23049), (840, 23094), (857, 23127), (858, 23130), (914, 23214), (934, 23247), (939, 23253), (944, 23265), (988, 23355), (990, 23361), (997, 23376), (998, 23379), (1002, 23391), (1007, 23403), (1009, 23412), (1038, 23499), (1084, 23589),

Gene: Mistmere_78 Start: 48079, Stop: 46562, Start Num: 250
Candidate Starts for Mistmere_78:
(174, 48235), (242, 48091), (Start: 250 @48079 has 29 MA's), (336, 47968), (363, 47929), (375, 47920), (446, 47797), (451, 47782), (482, 47710), (526, 47644), (538, 47617), (566, 47560), (568, 47557), (598, 47494), (626, 47434), (673, 47332), (713, 47266), (792, 47116), (814, 47083), (822, 47071), (903, 46945), (936, 46900), (980, 46813), (986, 46807), (995, 46789), (1020, 46714), (1045, 46657),

Gene: MoMoMixon_186 Start: 100533, Stop: 98671, Start Num: 119
Candidate Starts for MoMoMixon_186:
(Start: 119 @100533 has 185 MA's), (Start: 145 @100473 has 1 MA's), (Start: 182 @100404 has 1 MA's), (420, 100032), (443, 99990), (449, 99972), (506, 99888), (518, 99864), (530, 99840), (532, 99837), (555, 99792), (579, 99741), (595, 99711), (601, 99699), (661, 99570), (713, 99477), (717, 99471), (746, 99408), (748, 99402), (811, 99306), (814, 99300), (879, 99189), (921, 99117), (948, 99084), (951, 99075), (1004, 98955), (1010, 98937), (1047, 98838), (1048, 98835), (1058, 98814), (1083, 98760), (1107, 98724),

Gene: Moby_184 Start: 99911, Stop: 98049, Start Num: 119
Candidate Starts for Moby_184:
(Start: 119 @99911 has 185 MA's), (Start: 145 @99851 has 1 MA's), (Start: 182 @99782 has 1 MA's), (420, 99410), (441, 99371), (443, 99368), (449, 99350), (506, 99266), (518, 99242), (530, 99218), (532, 99215), (555, 99170), (579, 99119), (595, 99089), (601, 99077), (661, 98948), (713, 98855), (717, 98849), (746, 98786), (748, 98780), (811, 98684), (814, 98678), (879, 98567), (921, 98495), (948, 98462), (951, 98453), (1004, 98333), (1010, 98315), (1047, 98216), (1048, 98213), (1058, 98192), (1083, 98138), (1107, 98102),

Gene: MoiGyank_63 Start: 41576, Stop: 43489, Start Num: 51
Candidate Starts for MoiGyank_63:
(Start: 50 @41573 has 13 MA's), (Start: 51 @41576 has 50 MA's), (Start: 58 @41588 has 39 MA's), (75, 41636), (87, 41669), (115, 41738), (158, 41828), (173, 41855), (178, 41864), (Start: 222 @41936 has 29 MA's), (296, 42056), (335, 42119), (399, 42209), (506, 42365), (518, 42389), (538, 42431), (562, 42479), (572, 42500), (581, 42521), (610, 42578), (618, 42596), (638, 42632), (662, 42674), (689, 42734), (745, 42830), (746, 42833), (881, 43010), (918, 43061), (969, 43151), (989, 43187), (992, 43193), (1004, 43229), (1010, 43247), (1022, 43286), (1066, 43388), (1072, 43403), (1083, 43424),

Gene: Moiqah_183 Start: 99888, Stop: 98026, Start Num: 119
Candidate Starts for Moiqah_183:
(Start: 119 @99888 has 185 MA's), (Start: 145 @99828 has 1 MA's), (Start: 182 @99759 has 1 MA's), (420, 99387), (441, 99348), (443, 99345), (449, 99327), (506, 99243), (518, 99219), (530, 99195), (532, 99192), (555, 99147), (579, 99096), (595, 99066), (601, 99054), (661, 98925), (713, 98832), (717, 98826), (746, 98763), (748, 98757), (811, 98661), (814, 98655), (879, 98544), (921, 98472), (948, 98439), (951, 98430), (1004, 98310), (1010, 98292), (1047, 98193), (1048, 98190), (1058, 98169), (1083, 98115), (1107, 98079),

Gene: Moki_25 Start: 20566, Stop: 21960, Start Num: 333
Candidate Starts for Moki_25:
(Start: 333 @20566 has 73 MA's), (381, 20623), (448, 20728), (484, 20815), (512, 20848), (542, 20902), (544, 20905), (588, 20995), (607, 21031), (616, 21049), (617, 21052), (640, 21106), (730, 21238), (740, 21265), (758, 21295), (763, 21304), (778, 21331), (798, 21364), (804, 21379), (827, 21406), (840, 21433), (858, 21469), (888, 21511), (926, 21574), (939, 21592), (975, 21664), (983, 21688), (988, 21694), (989, 21697), (997, 21715), (998, 21718), (1007, 21742), (1009, 21751), (1038, 21838), (1065, 21889), (1084, 21928),

Gene: Molivia_74 Start: 46115, Stop: 44718, Start Num: 252
Candidate Starts for Molivia_74:
(Start: 252 @46115 has 13 MA's), (302, 46064), (332, 46013), (336, 46010), (Start: 349 @45992 has 3 MA's), (361, 45974), (381, 45953), (451, 45830), (527, 45692), (600, 45551), (622, 45509), (632, 45488), (677, 45395), (725, 45338), (743, 45323), (760, 45293), (780, 45260), (848, 45185), (897, 45137), (915, 45110), (920, 45101), (927, 45089), (986, 44987), (1001, 44948), (1005, 44939), (1058, 44807), (1076, 44762), (1088, 44738),

Gene: Momo_188 Start: 99711, Stop: 97849, Start Num: 119
Candidate Starts for Momo_188:
(Start: 119 @99711 has 185 MA's), (Start: 145 @99651 has 1 MA's), (Start: 182 @99582 has 1 MA's), (420, 99210), (443, 99168), (449, 99150), (506, 99066), (518, 99042), (530, 99018), (532, 99015), (555, 98970), (579, 98919), (595, 98889), (601, 98877), (661, 98748), (713, 98655), (717, 98649), (746, 98586), (748, 98580), (811, 98484), (814, 98478), (879, 98367), (921, 98295), (948, 98262), (951, 98253), (1004, 98133), (1010, 98115), (1047, 98016), (1048, 98013), (1058, 97992), (1083, 97938), (1107, 97902),

Gene: MonChoix_39 Start: 31157, Stop: 29766, Start Num: 267
Candidate Starts for MonChoix_39:
(Start: 267 @31157 has 6 MA's), (445, 31010), (448, 31004), (449, 31001), (503, 30887), (518, 30860), (551, 30800), (562, 30773), (563, 30770), (611, 30674), (634, 30632), (721, 30461), (735, 30434), (769, 30365), (836, 30305), (966, 30092), (973, 30074), (989, 30038), (1000, 30008), (1002, 30002), (1007, 29990), (1045, 29894), (1068, 29840), (1070, 29837),

Gene: Montpel_187 Start: 102351, Stop: 100489, Start Num: 119

Candidate Starts for Montpel_187:
(Start: 119 @102351 has 185 MA's), (Start: 145 @102291 has 1 MA's), (Start: 182 @102222 has 1 MA's), (420, 101850), (443, 101808), (449, 101790), (506, 101706), (518, 101682), (530, 101658), (532, 101655), (555, 101610), (579, 101559), (595, 101529), (601, 101517), (661, 101388), (713, 101295), (717, 101289), (746, 101226), (748, 101220), (811, 101124), (814, 101118), (879, 101007), (921, 100935), (948, 100902), (951, 100893), (1004, 100773), (1010, 100755), (1047, 100656), (1048, 100653), (1058, 100632), (1083, 100578), (1107, 100542),

Gene: Monty_58 Start: 51476, Stop: 49944, Start Num: 222
Candidate Starts for Monty_58:
(102, 51731), (121, 51680), (142, 51629), (165, 51575), (181, 51545), (Start: 194 @51512 has 3 MA's), (201, 51503), (Start: 222 @51476 has 29 MA's), (321, 51308), (348, 51266), (380, 51218), (Start: 388 @51206 has 1 MA's), (396, 51194), (401, 51188), (412, 51167), (435, 51140), (520, 50999), (565, 50912), (572, 50897), (578, 50885), (591, 50855), (617, 50804), (639, 50777), (668, 50726), (695, 50666), (697, 50663), (732, 50636), (750, 50594), (780, 50549), (873, 50414), (883, 50399), (894, 50378), (972, 50297), (974, 50294), (999, 50237), (1000, 50231), (1002, 50225), (1004, 50219), (1030, 50144), (1047, 50105), (1052, 50093), (1054, 50090), (1097, 49997), (1107, 49982), (1119, 49961),

Gene: MontyDev_68 Start: 47606, Stop: 49366, Start Num: 188
Candidate Starts for MontyDev_68:
(Start: 188 @47606 has 10 MA's), (Start: 232 @47675 has 1 MA's), (292, 47771), (300, 47780), (348, 47861), (378, 47906), (469, 48083), (506, 48107), (530, 48155), (561, 48215), (565, 48227), (596, 48293), (655, 48416), (668, 48440), (679, 48464), (731, 48668), (745, 48701), (751, 48716), (778, 48755), (780, 48758), (784, 48767), (842, 48836), (933, 48968), (989, 49091), (990, 49094), (1000, 49121), (1010, 49151), (1012, 49157), (1013, 49160), (1018, 49178), (1022, 49190), (1083, 49325), (1096, 49352), (1098, 49355),

Gene: Mopey_54 Start: 39729, Stop: 41672, Start Num: 51
Candidate Starts for Mopey_54:
(Start: 51 @39729 has 50 MA's), (66, 39756), (88, 39828), (107, 39882), (140, 39942), (147, 39960), (150, 39969), (177, 40020), (195, 40062), (Start: 222 @40098 has 29 MA's), (271, 40185), (331, 40278), (341, 40293), (354, 40314), (433, 40416), (447, 40449), (458, 40473), (509, 40533), (554, 40620), (587, 40695), (639, 40785), (668, 40836), (669, 40839), (720, 40929), (731, 40947), (745, 40980), (778, 41034), (784, 41046), (796, 41064), (842, 41127), (903, 41211), (969, 41328), (989, 41376), (1011, 41439), (1041, 41523),

Gene: Mordred_90 Start: 58817, Stop: 60562, Start Num: 159
Candidate Starts for Mordred_90:
(Start: 159 @58817 has 18 MA's), (168, 58838), (205, 58916), (215, 58940), (238, 58985), (251, 59009), (272, 59048), (370, 59207), (375, 59216), (406, 59258), (418, 59279), (441, 59312), (444, 59318), (445, 59321), (450, 59336), (459, 59351), (500, 59438), (508, 59450), (511, 59456), (529, 59492), (542, 59516), (551, 59528), (613, 59660), (652, 59744), (667, 59765), (672, 59777), (680, 59792), (682, 59795), (692, 59819), (714, 59843), (725, 59855), (747, 59912), (779, 59957), (818, 60023), (827, 60035), (835, 60044), (842, 60068), (845, 60071), (864, 60107), (866, 60113), (877, 60137), (928, 60218), (931, 60224), (942, 60242), (960, 60269), (964, 60275), (977, 60305), (978, 60311), (1006, 60371), (1021, 60422), (1024, 60428), (1038, 60467),

Gene: Morizzled23_186 Start: 99869, Stop: 98007, Start Num: 119
Candidate Starts for Morizzled23_186:
(Start: 119 @99869 has 185 MA's), (Start: 145 @99809 has 1 MA's), (Start: 182 @99740 has 1 MA's), (420, 99368), (443, 99326), (449, 99308), (506, 99224), (518, 99200), (530, 99176), (532, 99173), (555, 99128), (579, 99077), (595, 99047), (601, 99035), (661, 98906), (713, 98813), (717, 98807), (746, 98744), (748, 98738), (811, 98642), (814, 98636), (879, 98525), (921, 98453), (948, 98420),

(951, 98411), (1004, 98291), (1010, 98273), (1047, 98174), (1048, 98171), (1058, 98150), (1083, 98096), (1107, 98060),

Gene: Morrigan_42 Start: 30540, Stop: 29155, Start Num: 362
Candidate Starts for Morrigan_42:
(Start: 360 @30543 has 155 MA's), (Start: 362 @30540 has 4 MA's), (380, 30513), (Start: 388 @30501 has 1 MA's), (390, 30498), (Start: 430 @30435 has 1 MA's), (474, 30330), (497, 30279), (503, 30267), (562, 30153), (563, 30150), (583, 30108), (607, 30057), (721, 29838), (743, 29790), (748, 29778), (750, 29775), (754, 29769), (763, 29757), (809, 29718), (836, 29682), (841, 29670), (862, 29628), (882, 29595), (887, 29586), (891, 29583), (932, 29523), (989, 29415), (993, 29406), (999, 29391), (1000, 29385), (1002, 29379), (1007, 29367), (1048, 29262), (1058, 29244), (1067, 29220), (1081, 29190),

Gene: MortySmith_38 Start: 24974, Stop: 26881, Start Num: 58
Candidate Starts for MortySmith_38:
(17, 24800), (Start: 58 @24974 has 39 MA's), (83, 25037), (96, 25058), (115, 25112), (183, 25247), (202, 25289), (Start: 235 @25334 has 1 MA's), (341, 25508), (348, 25517), (409, 25607), (433, 25649), (440, 25664), (539, 25850), (610, 25985), (616, 25997), (639, 26030), (731, 26159), (796, 26276), (987, 26585), (990, 26588), (1010, 26648), (1044, 26738), (1058, 26768), (1074, 26810), (1102, 26861),

Gene: MoyaNatalis_89 Start: 58700, Stop: 60445, Start Num: 159
Candidate Starts for MoyaNatalis_89:
(Start: 159 @58700 has 18 MA's), (168, 58721), (205, 58799), (215, 58823), (238, 58868), (251, 58892), (272, 58931), (370, 59090), (375, 59099), (406, 59141), (418, 59162), (441, 59195), (444, 59201), (445, 59204), (450, 59219), (459, 59234), (500, 59321), (508, 59333), (511, 59339), (529, 59375), (542, 59399), (551, 59411), (613, 59543), (652, 59627), (667, 59648), (672, 59660), (680, 59675), (682, 59678), (692, 59702), (714, 59726), (725, 59738), (747, 59795), (779, 59840), (818, 59906), (827, 59918), (835, 59927), (842, 59951), (845, 59954), (864, 59990), (866, 59996), (877, 60020), (928, 60101), (931, 60107), (942, 60125), (960, 60152), (964, 60158), (977, 60188), (978, 60194), (1006, 60254), (1021, 60305), (1024, 60311), (1038, 60350),

Gene: MrBoss_30 Start: 22115, Stop: 23509, Start Num: 333
Candidate Starts for MrBoss_30:
(Start: 333 @22115 has 73 MA's), (381, 22172), (448, 22277), (484, 22364), (540, 22448), (542, 22451), (544, 22454), (588, 22544), (607, 22580), (612, 22589), (616, 22598), (640, 22655), (646, 22673), (677, 22706), (730, 22787), (740, 22814), (753, 22838), (778, 22880), (798, 22913), (804, 22928), (863, 23027), (926, 23123), (939, 23141), (944, 23153), (988, 23243), (990, 23249), (994, 23258), (997, 23264), (1009, 23300), (1038, 23387), (1065, 23438), (1067, 23444), (1084, 23477), (1094, 23501),

Gene: MrMiyagi_73 Start: 45205, Stop: 47052, Start Num: 84
Candidate Starts for MrMiyagi_73:
(Start: 84 @45205 has 3 MA's), (96, 45223), (105, 45259), (135, 45310), (186, 45418), (202, 45451), (Start: 243 @45511 has 5 MA's), (265, 45553), (293, 45592), (354, 45688), (Start: 362 @45700 has 4 MA's), (380, 45727), (392, 45742), (398, 45751), (423, 45790), (Start: 430 @45805 has 1 MA's), (466, 45892), (472, 45904), (543, 46003), (547, 46009), (561, 46033), (587, 46093), (630, 46171), (642, 46198), (662, 46228), (668, 46240), (679, 46264), (731, 46342), (745, 46375), (751, 46390), (768, 46414), (769, 46417), (784, 46441), (989, 46765), (993, 46774), (1002, 46801), (1010, 46825), (1025, 46870), (1041, 46912), (1062, 46960), (1071, 46978), (1101, 47035),

Gene: MrWorldwide_41 Start: 31121, Stop: 29733, Start Num: 360
Candidate Starts for MrWorldwide_41:

(Start: 49 @31772 has 8 MA's), (187, 31418), (220, 31343), (Start: 360 @31121 has 155 MA's), (445, 30977), (448, 30971), (449, 30968), (503, 30854), (518, 30827), (551, 30767), (562, 30740), (563, 30737), (611, 30641), (634, 30599), (715, 30437), (721, 30428), (732, 30407), (738, 30392), (743, 30380), (769, 30332), (836, 30272), (887, 30176), (932, 30113), (966, 30059), (1000, 29975), (1002, 29969), (1007, 29957), (1045, 29861), (1068, 29807), (1070, 29804), (1081, 29780),

Gene: MrWormie_57 Start: 51762, Stop: 50350, Start Num: 294
Candidate Starts for MrWormie_57:
(102, 52110), (154, 51981), (Start: 194 @51891 has 3 MA's), (Start: 294 @51762 has 29 MA's), (321, 51717), (380, 51627), (382, 51624), (386, 51618), (401, 51597), (444, 51534), (510, 51426), (520, 51408), (565, 51321), (572, 51306), (591, 51264), (640, 51183), (668, 51135), (688, 51093), (695, 51075), (697, 51072), (732, 51045), (755, 50994), (780, 50958), (810, 50907), (873, 50823), (886, 50802), (999, 50646), (1000, 50640), (1004, 50628), (1052, 50502), (1107, 50388),

Gene: Msay19_64 Start: 54046, Stop: 52514, Start Num: 222
Candidate Starts for Msay19_64:
(102, 54301), (121, 54250), (165, 54145), (181, 54115), (Start: 194 @54082 has 3 MA's), (201, 54073), (Start: 222 @54046 has 29 MA's), (321, 53878), (348, 53836), (Start: 360 @53818 has 155 MA's), (380, 53788), (Start: 388 @53776 has 1 MA's), (396, 53764), (401, 53758), (412, 53737), (520, 53569), (565, 53482), (572, 53467), (578, 53455), (591, 53425), (617, 53374), (668, 53296), (679, 53272), (688, 53254), (695, 53236), (697, 53233), (726, 53224), (732, 53206), (750, 53164), (780, 53119), (791, 53101), (873, 52984), (883, 52969), (894, 52948), (972, 52867), (974, 52864), (999, 52807), (1000, 52801), (1004, 52789), (1030, 52714), (1047, 52675), (1052, 52663), (1054, 52660), (1097, 52567), (1107, 52552),

Gene: Musetta_83 Start: 50079, Stop: 48559, Start Num: 250
Candidate Starts for Musetta_83:
(230, 50112), (Start: 250 @50079 has 29 MA's), (281, 50028), (375, 49920), (419, 49854), (449, 49788), (515, 49665), (523, 49650), (552, 49593), (566, 49560), (568, 49557), (598, 49494), (622, 49443), (626, 49434), (631, 49425), (652, 49371), (673, 49332), (681, 49317), (713, 49266), (726, 49248), (737, 49218), (784, 49128), (814, 49083), (995, 48789), (1005, 48759), (1020, 48714), (1070, 48600),

Gene: Myrna_176 Start: 98838, Stop: 96982, Start Num: 117
Candidate Starts for Myrna_176:
(Start: 117 @98838 has 1 MA's), (Start: 122 @98829 has 2 MA's), (Start: 131 @98808 has 2 MA's), (157, 98751), (158, 98748), (180, 98706), (203, 98655), (311, 98481), (415, 98328), (420, 98322), (458, 98241), (488, 98184), (506, 98178), (508, 98175), (590, 98010), (595, 98001), (601, 97989), (640, 97899), (650, 97878), (658, 97866), (713, 97767), (717, 97761), (736, 97743), (745, 97725), (746, 97722), (767, 97686), (804, 97626), (814, 97611), (815, 97608), (848, 97551), (886, 97491), (911, 97446), (948, 97398), (951, 97389), (975, 97341), (985, 97314), (988, 97311), (1010, 97251), (1047, 97152), (1048, 97149), (1058, 97131), (1073, 97095), (1093, 97056), (1115, 97026), (1120, 97014),

Gene: NadineRae_71 Start: 52357, Stop: 50276, Start Num: 35
Candidate Starts for NadineRae_71:
(Start: 35 @52357 has 37 MA's), (115, 52126), (271, 51838), (296, 51805), (309, 51784), (343, 51730), (345, 51724), (348, 51721), (409, 51631), (411, 51628), (450, 51568), (547, 51412), (618, 51265), (653, 51184), (668, 51157), (679, 51133), (731, 51031), (755, 50977), (767, 50962), (814, 50881), (842, 50842), (886, 50779), (903, 50740), (907, 50734), (925, 50704), (989, 50587), (1011, 50524), (1031, 50461), (1041, 50443), (1080, 50359),

Gene: Nagem_41 Start: 31114, Stop: 29726, Start Num: 360

Candidate Starts for Nagem_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (715, 30430), (721, 30421), (732, 30400), (738, 30385), (743, 30373), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1033, 29875), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Naija_188 Start: 100414, Stop: 98552, Start Num: 119
Candidate Starts for Naija_188:
(Start: 119 @100414 has 185 MA's), (Start: 145 @100354 has 1 MA's), (Start: 182 @100285 has 1 MA's), (420, 99913), (443, 99871), (449, 99853), (506, 99769), (518, 99745), (530, 99721), (532, 99718), (555, 99673), (579, 99622), (595, 99592), (601, 99580), (661, 99451), (713, 99358), (717, 99352), (746, 99289), (748, 99283), (811, 99187), (814, 99181), (879, 99070), (921, 98998), (948, 98965), (951, 98956), (1004, 98836), (1010, 98818), (1047, 98719), (1048, 98716), (1058, 98695), (1083, 98641), (1107, 98605),

Gene: Nancia_25 Start: 20580, Stop: 21974, Start Num: 333
Candidate Starts for Nancia_25:
(Start: 333 @20580 has 73 MA's), (381, 20637), (448, 20742), (449, 20745), (484, 20829), (512, 20862), (540, 20913), (544, 20919), (582, 21000), (584, 21003), (588, 21009), (607, 21045), (616, 21063), (617, 21066), (634, 21099), (640, 21120), (730, 21252), (740, 21279), (763, 21318), (773, 21339), (778, 21345), (798, 21378), (804, 21393), (814, 21402), (840, 21447), (858, 21483), (888, 21525), (926, 21588), (939, 21606), (988, 21708), (989, 21711), (997, 21729), (998, 21732), (1007, 21756), (1009, 21765), (1038, 21852), (1084, 21942), (1094, 21966),

Gene: Napoleon13_186 Start: 100234, Stop: 98372, Start Num: 119
Candidate Starts for Napoleon13_186:
(Start: 119 @100234 has 185 MA's), (Start: 145 @100174 has 1 MA's), (Start: 182 @100105 has 1 MA's), (420, 99733), (443, 99691), (449, 99673), (506, 99589), (518, 99565), (530, 99541), (532, 99538), (555, 99493), (579, 99442), (595, 99412), (601, 99400), (661, 99271), (713, 99178), (717, 99172), (746, 99109), (748, 99103), (811, 99007), (814, 99001), (879, 98890), (921, 98818), (948, 98785), (951, 98776), (1004, 98656), (1010, 98638), (1047, 98539), (1048, 98536), (1058, 98515), (1083, 98461), (1107, 98425),

Gene: Nappy_188 Start: 102116, Stop: 100254, Start Num: 119
Candidate Starts for Nappy_188:
(Start: 119 @102116 has 185 MA's), (Start: 145 @102056 has 1 MA's), (Start: 182 @101987 has 1 MA's), (420, 101615), (443, 101573), (449, 101555), (506, 101471), (518, 101447), (530, 101423), (532, 101420), (555, 101375), (579, 101324), (595, 101294), (601, 101282), (661, 101153), (713, 101060), (717, 101054), (746, 100991), (748, 100985), (811, 100889), (814, 100883), (879, 100772), (921, 100700), (948, 100667), (951, 100658), (1004, 100538), (1010, 100520), (1047, 100421), (1048, 100418), (1058, 100397), (1083, 100343), (1107, 100307),

Gene: NarutoRun_40 Start: 25911, Stop: 27818, Start Num: 58
Candidate Starts for NarutoRun_40:
(Start: 58 @25911 has 39 MA's), (83, 25974), (96, 25995), (115, 26049), (202, 26226), (Start: 235 @26271 has 1 MA's), (341, 26445), (348, 26454), (409, 26544), (440, 26601), (539, 26787), (610, 26922), (616, 26934), (639, 26967), (731, 27096), (796, 27213), (856, 27288), (987, 27522), (990, 27525), (1010, 27585), (1044, 27675), (1058, 27705), (1074, 27747), (1102, 27798),

Gene: NatB6_72 Start: 55674, Stop: 53746, Start Num: 80
Candidate Starts for NatB6_72:

(2, 56310), (5, 56109), (8, 56016), (9, 56004), (11, 55986), (Start: 35 @55812 has 37 MA's), (Start: 80 @55674 has 2 MA's), (92, 55650), (178, 55446), (Start: 200 @55401 has 9 MA's), (271, 55293), (345, 55179), (348, 55176), (409, 55086), (411, 55083), (450, 55023), (538, 54885), (547, 54867), (561, 54843), (618, 54720), (668, 54615), (731, 54489), (755, 54435), (769, 54414), (842, 54300), (903, 54204), (907, 54198), (925, 54168), (957, 54111), (989, 54051), (1011, 53988), (1041, 53907),

Gene: Nattles_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Nattles_40:
(220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (608, 30326), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (743, 30062), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1033, 29564), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: Naval22_195 Start: 102500, Stop: 100638, Start Num: 119
Candidate Starts for Naval22_195:
(Start: 119 @102500 has 185 MA's), (Start: 145 @102440 has 1 MA's), (Start: 182 @102371 has 1 MA's), (420, 101999), (443, 101957), (449, 101939), (506, 101855), (518, 101831), (530, 101807), (532, 101804), (555, 101759), (579, 101708), (595, 101678), (601, 101666), (661, 101537), (713, 101444), (717, 101438), (746, 101375), (748, 101369), (811, 101273), (814, 101267), (879, 101156), (921, 101084), (948, 101051), (951, 101042), (1004, 100922), (1010, 100904), (1047, 100805), (1048, 100802), (1058, 100781), (1083, 100727), (1107, 100691),

Gene: Nebulous_39 Start: 32131, Stop: 30701, Start Num: 358
Candidate Starts for Nebulous_39:
(Start: 358 @32131 has 23 MA's), (380, 32098), (411, 32053), (448, 31978), (449, 31975), (509, 31843), (515, 31831), (562, 31738), (563, 31735), (565, 31732), (630, 31603), (717, 31429), (721, 31423), (732, 31402), (743, 31375), (748, 31363), (750, 31360), (763, 31342), (798, 31285), (836, 31228), (841, 31216), (862, 31174), (887, 31132), (903, 31108), (932, 31069), (966, 31015), (989, 30961), (993, 30952), (999, 30937), (1000, 30931), (1048, 30808), (1058, 30790), (1067, 30766),

Gene: Necrophoxinus_86 Start: 50425, Stop: 48905, Start Num: 250
Candidate Starts for Necrophoxinus_86:
(230, 50458), (Start: 250 @50425 has 29 MA's), (268, 50392), (281, 50374), (363, 50275), (375, 50266), (419, 50200), (449, 50134), (523, 49996), (552, 49939), (566, 49906), (568, 49903), (598, 49840), (622, 49789), (626, 49780), (631, 49771), (641, 49741), (652, 49717), (673, 49678), (681, 49663), (713, 49612), (726, 49594), (737, 49564), (767, 49501), (814, 49429), (995, 49135), (1005, 49105), (1020, 49060), (1040, 49009), (1061, 48964), (1070, 48946),

Gene: NedWong_187 Start: 101156, Stop: 99294, Start Num: 119
Candidate Starts for NedWong_187:
(Start: 119 @101156 has 185 MA's), (Start: 145 @101096 has 1 MA's), (Start: 182 @101027 has 1 MA's), (420, 100655), (443, 100613), (449, 100595), (506, 100511), (518, 100487), (530, 100463), (532, 100460), (555, 100415), (579, 100364), (595, 100334), (601, 100322), (661, 100193), (713, 100100), (717, 100094), (746, 100031), (748, 100025), (811, 99929), (814, 99923), (879, 99812), (921, 99740), (948, 99707), (951, 99698), (1004, 99578), (1010, 99560), (1047, 99461), (1048, 99458), (1058, 99437), (1083, 99383), (1107, 99347),

Gene: Neferthena_41 Start: 31335, Stop: 29905, Start Num: 358
Candidate Starts for Neferthena_41:
(Start: 358 @31335 has 23 MA's), (380, 31302), (411, 31257), (445, 31188), (448, 31182), (449, 31179), (509, 31047), (562, 30942), (563, 30939), (717, 30633), (721, 30627), (732, 30606), (743, 30579), (763, 30546), (798, 30489), (823, 30447), (836, 30432), (841, 30420), (862, 30378), (887,

30336), (903, 30312), (917, 30291), (932, 30273), (966, 30219), (989, 30165), (993, 30156), (999, 30141), (1000, 30135), (1045, 30021), (1065, 29976), (1067, 29970), (1076, 29949), (1081, 29940),

Gene: Neoevie_57 Start: 52863, Stop: 51451, Start Num: 294
Candidate Starts for Neoevie_57:
(102, 53211), (154, 53082), (192, 52995), (Start: 194 @52992 has 3 MA's), (Start: 294 @52863 has 29 MA's), (321, 52818), (380, 52728), (382, 52725), (386, 52719), (401, 52698), (444, 52635), (510, 52527), (520, 52509), (565, 52422), (572, 52407), (591, 52365), (640, 52284), (668, 52236), (688, 52194), (695, 52176), (697, 52173), (732, 52146), (755, 52095), (780, 52059), (810, 52008), (873, 51924), (886, 51903), (999, 51747), (1000, 51741), (1004, 51729), (1052, 51603), (1107, 51489),

Gene: Neptune_40 Start: 25911, Stop: 27818, Start Num: 58
Candidate Starts for Neptune_40:
(Start: 58 @25911 has 39 MA's), (83, 25974), (96, 25995), (115, 26049), (202, 26226), (Start: 235 @26271 has 1 MA's), (341, 26445), (348, 26454), (409, 26544), (539, 26787), (610, 26922), (616, 26934), (639, 26967), (731, 27096), (796, 27213), (856, 27288), (987, 27522), (990, 27525), (1010, 27585), (1044, 27675), (1058, 27705), (1074, 27747), (1102, 27798),

Gene: Nettle_61 Start: 41227, Stop: 43143, Start Num: 50
Candidate Starts for Nettle_61:
(20, 41104), (21, 41113), (24, 41125), (28, 41158), (Start: 50 @41227 has 13 MA's), (Start: 51 @41230 has 50 MA's), (Start: 58 @41242 has 39 MA's), (75, 41290), (87, 41323), (115, 41392), (158, 41482), (173, 41509), (178, 41518), (Start: 222 @41590 has 29 MA's), (296, 41710), (335, 41773), (355, 41800), (399, 41863), (418, 41890), (506, 42019), (518, 42043), (538, 42085), (562, 42133), (572, 42154), (581, 42175), (610, 42232), (618, 42250), (638, 42286), (662, 42328), (689, 42388), (745, 42484), (746, 42487), (918, 42715), (969, 42805), (989, 42841), (992, 42847), (1004, 42883), (1010, 42901), (1022, 42940), (1066, 43042), (1072, 43057), (1083, 43078),

Gene: Neuvillette_38 Start: 26376, Stop: 24544, Start Num: 64
Candidate Starts for Neuvillette_38:
(Start: 64 @26376 has 19 MA's), (Start: 80 @26319 has 2 MA's), (173, 26118), (Start: 252 @25983 has 13 MA's), (331, 25848), (348, 25821), (447, 25764), (453, 25749), (472, 25695), (518, 25599), (521, 25593), (528, 25578), (552, 25533), (572, 25485), (581, 25464), (589, 25446), (616, 25395), (666, 25302), (671, 25290), (731, 25227), (777, 25155), (812, 25095), (842, 25074), (888, 25008), (900, 24990), (906, 24972), (907, 24969), (927, 24933), (989, 24825), (993, 24816), (1013, 24756), (1030, 24708),

Gene: Newt_58 Start: 53091, Stop: 51679, Start Num: 294
Candidate Starts for Newt_58:
(102, 53439), (154, 53310), (192, 53223), (Start: 194 @53220 has 3 MA's), (Start: 294 @53091 has 29 MA's), (321, 53046), (380, 52956), (382, 52953), (386, 52947), (401, 52926), (444, 52863), (510, 52755), (520, 52737), (565, 52650), (572, 52635), (591, 52593), (640, 52512), (668, 52464), (688, 52422), (695, 52404), (697, 52401), (732, 52374), (755, 52323), (780, 52287), (810, 52236), (873, 52152), (886, 52131), (999, 51975), (1000, 51969), (1004, 51957), (1052, 51831), (1107, 51717),

Gene: Ngannou_184 Start: 98693, Stop: 96831, Start Num: 119
Candidate Starts for Ngannou_184:
(Start: 119 @98693 has 185 MA's), (Start: 145 @98633 has 1 MA's), (Start: 182 @98564 has 1 MA's), (420, 98192), (443, 98150), (449, 98132), (506, 98048), (518, 98024), (530, 98000), (532, 97997), (555, 97952), (579, 97901), (595, 97871), (601, 97859), (661, 97730), (713, 97637), (717, 97631), (746, 97568), (748, 97562), (811, 97466), (814, 97460), (879, 97349), (921, 97277), (948, 97244), (951, 97235), (1004, 97115), (1010, 97097), (1047, 96998), (1048, 96995), (1058, 96974), (1083, 96920), (1107, 96884),

Gene: Niagara_57 Start: 53309, Stop: 51606, Start Num: 126
Candidate Starts for Niagara_57:
(Start: 126 @53309 has 9 MA's), (Start: 131 @53297 has 2 MA's), (227, 53114), (Start: 294 @53024 has 29 MA's), (301, 53015), (321, 52979), (336, 52955), (343, 52946), (348, 52937), (380, 52889), (396, 52865), (444, 52793), (454, 52772), (468, 52736), (469, 52733), (555, 52604), (558, 52601), (572, 52565), (574, 52562), (581, 52544), (586, 52535), (591, 52523), (616, 52475), (640, 52442), (668, 52394), (679, 52370), (732, 52304), (780, 52205), (849, 52106), (854, 52097), (871, 52073), (873, 52070), (957, 51977), (972, 51953), (974, 51950), (999, 51893), (1004, 51875), (1047, 51758), (1048, 51755), (1054, 51743), (1107, 51644), (1119, 51623),

Gene: NickSell_41 Start: 31124, Stop: 29736, Start Num: 360
Candidate Starts for NickSell_41:
(Start: 49 @31775 has 8 MA's), (187, 31421), (220, 31346), (Start: 360 @31124 has 155 MA's), (445, 30980), (448, 30974), (449, 30971), (503, 30857), (518, 30830), (551, 30770), (562, 30743), (563, 30740), (611, 30644), (634, 30602), (715, 30440), (721, 30431), (732, 30410), (738, 30395), (743, 30383), (769, 30335), (836, 30275), (887, 30179), (932, 30116), (966, 30062), (1000, 29978), (1002, 29972), (1007, 29960), (1045, 29864), (1068, 29810), (1070, 29807), (1081, 29783),

Gene: Nidhogg_189 Start: 101549, Stop: 99687, Start Num: 119
Candidate Starts for Nidhogg_189:
(Start: 119 @101549 has 185 MA's), (Start: 145 @101489 has 1 MA's), (Start: 182 @101420 has 1 MA's), (420, 101048), (443, 101006), (449, 100988), (506, 100904), (518, 100880), (530, 100856), (532, 100853), (555, 100808), (579, 100757), (595, 100727), (601, 100715), (661, 100586), (713, 100493), (717, 100487), (746, 100424), (748, 100418), (811, 100322), (814, 100316), (879, 100205), (921, 100133), (948, 100100), (951, 100091), (1004, 99971), (1010, 99953), (1047, 99854), (1048, 99851), (1058, 99830), (1083, 99776), (1107, 99740),

Gene: Nilo_68 Start: 47960, Stop: 49720, Start Num: 188
Candidate Starts for Nilo_68:
(Start: 188 @47960 has 10 MA's), (Start: 232 @48029 has 1 MA's), (292, 48125), (300, 48134), (348, 48215), (378, 48260), (506, 48461), (530, 48509), (561, 48569), (565, 48581), (596, 48647), (655, 48770), (668, 48794), (679, 48818), (731, 49022), (745, 49055), (751, 49070), (778, 49109), (780, 49112), (784, 49121), (842, 49190), (933, 49322), (989, 49445), (990, 49448), (1000, 49475), (1010, 49505), (1012, 49511), (1013, 49514), (1018, 49532), (1022, 49544), (1083, 49679), (1098, 49709),

Gene: Nimi13_57 Start: 52610, Stop: 51198, Start Num: 294
Candidate Starts for Nimi13_57:
(102, 52958), (154, 52829), (Start: 194 @52739 has 3 MA's), (Start: 294 @52610 has 29 MA's), (321, 52565), (380, 52475), (382, 52472), (386, 52466), (401, 52445), (444, 52382), (510, 52274), (520, 52256), (565, 52169), (572, 52154), (591, 52112), (640, 52031), (668, 51983), (688, 51941), (695, 51923), (697, 51920), (732, 51893), (755, 51842), (780, 51806), (810, 51755), (873, 51671), (886, 51650), (999, 51494), (1000, 51488), (1004, 51476), (1052, 51350), (1107, 51236),

Gene: Nirvana_129 Start: 85649, Stop: 84003, Start Num: 200
Candidate Starts for Nirvana_129:
(Start: 200 @85649 has 9 MA's), (255, 85541), (270, 85517), (281, 85502), (299, 85499), (414, 85322), (461, 85220), (505, 85145), (507, 85142), (598, 84968), (621, 84926), (643, 84869), (677, 84803), (732, 84707), (760, 84650), (792, 84596), (801, 84584), (811, 84569), (842, 84521), (907, 84407), (927, 84377), (947, 84347), (952, 84335), (1019, 84179), (1020, 84176), (1076, 84047),

Gene: Nish23_63 Start: 46151, Stop: 48148, Start Num: 72
Candidate Starts for Nish23_63:

(Start: 45 @46091 has 11 MA's), (72, 46151), (73, 46154), (106, 46247), (111, 46259), (120, 46280), (Start: 182 @46403 has 1 MA's), (183, 46406), (187, 46415), (202, 46448), (206, 46469), (229, 46517), (255, 46559), (296, 46622), (309, 46643), (314, 46649), (348, 46703), (462, 46889), (466, 46901), (474, 46919), (506, 46934), (509, 46940), (668, 47258), (669, 47261), (689, 47306), (727, 47357), (731, 47369), (778, 47459), (784, 47471), (802, 47504), (819, 47528), (826, 47537), (907, 47627), (926, 47660), (985, 47771), (989, 47774), (990, 47777), (992, 47780), (1004, 47816), (1010, 47834), (1031, 47900), (1041, 47918), (1126, 48095),

Gene: Nonagon_72 Start: 46348, Stop: 44768, Start Num: 190
Candidate Starts for Nonagon_72:
(148, 46438), (Start: 190 @46348 has 2 MA's), (212, 46297), (219, 46282), (271, 46189), (281, 46174), (316, 46144), (324, 46129), (347, 46105), (366, 46078), (405, 46033), (429, 45994), (437, 45979), (458, 45937), (480, 45883), (523, 45820), (569, 45730), (576, 45715), (585, 45694), (622, 45637), (632, 45616), (670, 45532), (693, 45481), (756, 45388), (764, 45373), (780, 45349), (787, 45334), (789, 45331), (811, 45307), (814, 45301), (824, 45286), (884, 45202), (897, 45181), (899, 45178), (918, 45148), (920, 45145), (959, 45076), (966, 45064), (982, 45022), (986, 45016), (1001, 44977), (1011, 44953), (1040, 44872), (1060, 44830), (1061, 44827),

Gene: NoodleTree_194 Start: 101456, Stop: 99594, Start Num: 119
Candidate Starts for NoodleTree_194:
(Start: 119 @101456 has 185 MA's), (Start: 145 @101396 has 1 MA's), (Start: 182 @101327 has 1 MA's), (420, 100955), (443, 100913), (449, 100895), (506, 100811), (518, 100787), (530, 100763), (532, 100760), (555, 100715), (579, 100664), (595, 100634), (601, 100622), (661, 100493), (713, 100400), (717, 100394), (746, 100331), (748, 100325), (811, 100229), (814, 100223), (879, 100112), (921, 100040), (948, 100007), (951, 99998), (1004, 99878), (1010, 99860), (1047, 99761), (1048, 99758), (1058, 99737), (1083, 99683), (1107, 99647),

Gene: NorManre_63 Start: 40960, Stop: 42873, Start Num: 51
Candidate Starts for NorManre_63:
(20, 40834), (21, 40843), (24, 40855), (28, 40888), (Start: 50 @40957 has 13 MA's), (Start: 51 @40960 has 50 MA's), (Start: 58 @40972 has 39 MA's), (75, 41020), (115, 41122), (158, 41212), (173, 41239), (178, 41248), (Start: 222 @41320 has 29 MA's), (296, 41440), (335, 41503), (399, 41593), (418, 41620), (506, 41749), (518, 41773), (538, 41815), (562, 41863), (572, 41884), (581, 41905), (610, 41962), (618, 41980), (638, 42016), (662, 42058), (689, 42118), (745, 42214), (746, 42217), (881, 42394), (918, 42445), (969, 42535), (989, 42571), (992, 42577), (1010, 42631), (1022, 42670), (1066, 42772), (1072, 42787), (1083, 42808), (1115, 42865),

Gene: Norm_187 Start: 101155, Stop: 99293, Start Num: 119
Candidate Starts for Norm_187:
(Start: 119 @101155 has 185 MA's), (Start: 145 @101095 has 1 MA's), (Start: 182 @101026 has 1 MA's), (420, 100654), (443, 100612), (449, 100594), (506, 100510), (530, 100462), (532, 100459), (555, 100414), (579, 100363), (595, 100333), (601, 100321), (661, 100192), (713, 100099), (717, 100093), (746, 100030), (748, 100024), (811, 99928), (814, 99922), (879, 99811), (921, 99739), (948, 99706), (951, 99697), (1004, 99577), (1010, 99559), (1047, 99460), (1048, 99457), (1058, 99436), (1083, 99382), (1107, 99346),

Gene: NosilaM_73 Start: 56110, Stop: 54188, Start Num: 93
Candidate Starts for NosilaM_73:
(Start: 35 @56275 has 37 MA's), (Start: 93 @56110 has 1 MA's), (94, 56107), (Start: 200 @55852 has 9 MA's), (271, 55744), (309, 55690), (348, 55627), (409, 55537), (411, 55534), (426, 55510), (450, 55474), (538, 55336), (547, 55318), (554, 55309), (561, 55294), (618, 55171), (653, 55087), (668, 55060), (679, 55036), (731, 54937), (755, 54883), (791, 54829), (814, 54787), (842, 54748), (889, 54679), (903, 54646), (925, 54610), (950, 54565), (957, 54553), (989, 54493), (1011, 54430), (1080,

54265),

Gene: Nova_52 Start: 40183, Stop: 42126, Start Num: 51
Candidate Starts for Nova_52:
(32, 40120), (Start: 51 @40183 has 50 MA's), (66, 40210), (88, 40282), (107, 40336), (140, 40396), (150, 40423), (177, 40474), (178, 40477), (195, 40516), (Start: 222 @40552 has 29 MA's), (271, 40639), (331, 40732), (341, 40747), (354, 40768), (433, 40870), (447, 40903), (458, 40927), (509, 40987), (554, 41074), (587, 41149), (639, 41239), (668, 41290), (669, 41293), (720, 41383), (731, 41401), (745, 41434), (784, 41500), (796, 41518), (842, 41581), (903, 41665), (969, 41782), (989, 41830), (1011, 41893), (1041, 41977),

Gene: NovaSharks_62 Start: 39405, Stop: 41321, Start Num: 50
Candidate Starts for NovaSharks_62:
(Start: 50 @39405 has 13 MA's), (Start: 51 @39408 has 50 MA's), (Start: 58 @39420 has 39 MA's), (75, 39468), (87, 39501), (158, 39660), (173, 39687), (178, 39696), (Start: 222 @39768 has 29 MA's), (296, 39888), (335, 39951), (399, 40041), (418, 40068), (506, 40197), (518, 40221), (538, 40263), (543, 40275), (554, 40290), (562, 40311), (572, 40332), (581, 40353), (610, 40410), (618, 40428), (638, 40464), (662, 40506), (689, 40566), (745, 40662), (746, 40665), (881, 40842), (918, 40893), (969, 40983), (989, 41019), (992, 41025), (1010, 41079), (1022, 41118), (1066, 41220), (1072, 41235), (1083, 41256),

Gene: NovumRegina_72 Start: 56100, Stop: 54034, Start Num: 35
Candidate Starts for NovumRegina_72:
(8, 56304), (9, 56292), (11, 56274), (Start: 35 @56100 has 37 MA's), (Start: 80 @55962 has 2 MA's), (92, 55938), (178, 55734), (Start: 200 @55689 has 9 MA's), (271, 55581), (345, 55467), (348, 55464), (409, 55374), (411, 55371), (450, 55311), (538, 55173), (547, 55155), (561, 55131), (618, 55008), (668, 54903), (731, 54777), (755, 54723), (834, 54597), (842, 54588), (854, 54564), (903, 54492), (907, 54486), (925, 54456), (957, 54399), (989, 54339), (1011, 54276), (1041, 54195),

Gene: Nubia_29 Start: 22080, Stop: 23471, Start Num: 333
Candidate Starts for Nubia_29:
(Start: 333 @22080 has 73 MA's), (406, 22167), (448, 22239), (449, 22242), (477, 22308), (484, 22326), (486, 22332), (512, 22359), (544, 22416), (566, 22467), (588, 22506), (607, 22542), (616, 22560), (634, 22596), (640, 22617), (646, 22635), (677, 22668), (699, 22707), (730, 22749), (740, 22776), (753, 22800), (773, 22836), (778, 22842), (798, 22875), (804, 22890), (814, 22899), (840, 22944), (857, 22977), (858, 22980), (926, 23085), (934, 23097), (944, 23115), (988, 23205), (997, 23226), (998, 23229), (1007, 23253), (1009, 23262), (1038, 23349), (1065, 23400), (1084, 23439), (1094, 23463),

Gene: Nucci_39 Start: 30618, Stop: 29206, Start Num: 360
Candidate Starts for Nucci_39:
(Start: 358 @30621 has 23 MA's), (Start: 360 @30618 has 155 MA's), (384, 30588), (Start: 388 @30582 has 1 MA's), (411, 30549), (448, 30474), (450, 30468), (503, 30357), (518, 30330), (544, 30279), (551, 30270), (562, 30243), (563, 30240), (583, 30198), (611, 30144), (686, 29988), (717, 29937), (721, 29931), (732, 29910), (735, 29904), (738, 29895), (743, 29883), (748, 29871), (796, 29793), (836, 29733), (839, 29727), (862, 29679), (887, 29637), (932, 29574), (944, 29562), (957, 29538), (958, 29535), (989, 29466), (993, 29457), (999, 29442), (1000, 29436), (1002, 29430), (1007, 29418), (1048, 29313), (1058, 29295), (1061, 29283), (1083, 29238),

Gene: NuevoMundo_191 Start: 103085, Stop: 101223, Start Num: 119
Candidate Starts for NuevoMundo_191:
(Start: 119 @103085 has 185 MA's), (Start: 145 @103025 has 1 MA's), (Start: 182 @102956 has 1 MA's), (420, 102584), (443, 102542), (449, 102524), (506, 102440), (518, 102416), (530, 102392),

(532, 102389), (555, 102344), (579, 102293), (595, 102263), (601, 102251), (661, 102122), (713, 102029), (717, 102023), (746, 101960), (748, 101954), (811, 101858), (814, 101852), (879, 101741), (921, 101669), (948, 101636), (951, 101627), (1004, 101507), (1010, 101489), (1047, 101390), (1048, 101387), (1058, 101366), (1083, 101312), (1107, 101276),

Gene: OMalley_26 Start: 21745, Stop: 23139, Start Num: 333
Candidate Starts for OMalley_26:
(Start: 333 @21745 has 73 MA's), (381, 21802), (441, 21889), (448, 21907), (449, 21910), (484, 21994), (512, 22027), (540, 22078), (544, 22084), (571, 22144), (588, 22174), (607, 22210), (616, 22228), (640, 22285), (646, 22303), (651, 22309), (677, 22336), (730, 22417), (740, 22444), (753, 22468), (763, 22483), (778, 22510), (798, 22543), (804, 22558), (888, 22690), (908, 22726), (926, 22753), (934, 22765), (944, 22783), (988, 22873), (990, 22879), (997, 22894), (998, 22897), (1009, 22930), (1030, 22990), (1038, 23017), (1067, 23074), (1084, 23107), (1094, 23131),

Gene: Oaker_60 Start: 46344, Stop: 48401, Start Num: 45
Candidate Starts for Oaker_60:
(Start: 45 @46344 has 11 MA's), (72, 46404), (73, 46407), (106, 46500), (111, 46512), (120, 46533), (Start: 182 @46656 has 1 MA's), (183, 46659), (187, 46668), (202, 46701), (206, 46722), (229, 46770), (255, 46812), (296, 46875), (309, 46896), (314, 46902), (348, 46956), (462, 47142), (466, 47154), (474, 47172), (506, 47187), (509, 47193), (668, 47511), (669, 47514), (689, 47559), (727, 47610), (731, 47622), (778, 47712), (784, 47724), (802, 47757), (819, 47781), (826, 47790), (907, 47880), (926, 47913), (985, 48024), (989, 48027), (990, 48030), (992, 48033), (1004, 48069), (1010, 48087), (1031, 48153), (1041, 48171), (1126, 48348),

Gene: Oats_40 Start: 30816, Stop: 29428, Start Num: 360
Candidate Starts for Oats_40:
(220, 31038), (Start: 360 @30816 has 155 MA's), (445, 30672), (448, 30666), (449, 30663), (503, 30549), (518, 30522), (551, 30462), (562, 30435), (563, 30432), (608, 30339), (611, 30336), (634, 30294), (721, 30123), (732, 30102), (738, 30087), (743, 30075), (769, 30027), (836, 29967), (887, 29871), (932, 29808), (966, 29754), (1000, 29670), (1002, 29664), (1007, 29652), (1033, 29577), (1045, 29556), (1068, 29502), (1070, 29499), (1081, 29475),

Gene: OhDear_40 Start: 25909, Stop: 27816, Start Num: 58
Candidate Starts for OhDear_40:
(Start: 58 @25909 has 39 MA's), (83, 25972), (96, 25993), (115, 26047), (202, 26224), (Start: 235 @26269 has 1 MA's), (341, 26443), (348, 26452), (409, 26542), (440, 26599), (539, 26785), (610, 26920), (616, 26932), (639, 26965), (731, 27094), (796, 27211), (856, 27286), (987, 27520), (990, 27523), (1010, 27583), (1044, 27673), (1058, 27703), (1074, 27745), (1102, 27796),

Gene: OldNelly_42 Start: 31120, Stop: 29732, Start Num: 360
Candidate Starts for OldNelly_42:
(220, 31342), (Start: 360 @31120 has 155 MA's), (445, 30976), (448, 30970), (449, 30967), (503, 30853), (518, 30826), (551, 30766), (562, 30739), (563, 30736), (567, 30730), (611, 30640), (634, 30598), (721, 30427), (738, 30391), (743, 30379), (763, 30346), (769, 30331), (836, 30271), (887, 30175), (932, 30112), (966, 30058), (1000, 29974), (1002, 29968), (1007, 29956), (1045, 29860), (1068, 29806), (1070, 29803), (1081, 29779),

Gene: OlinDD_77 Start: 49475, Stop: 47952, Start Num: 250
Candidate Starts for OlinDD_77:
(214, 49541), (226, 49514), (Start: 250 @49475 has 29 MA's), (363, 49325), (375, 49316), (435, 49220), (448, 49187), (459, 49160), (482, 49106), (515, 49061), (517, 49058), (566, 48953), (568, 48950), (626, 48827), (631, 48818), (635, 48806), (660, 48752), (713, 48659), (766, 48551), (784, 48521), (787, 48515), (789, 48512), (792, 48509), (814, 48476), (822, 48464), (903, 48338), (938,

48290), (986, 48200), (995, 48182), (1012, 48134), (1061, 48011),

Gene: Olympi_35 Start: 23358, Stop: 24785, Start Num: 339
Candidate Starts for Olympi_35:
(Start: 339 @23358 has 21 MA's), (474, 23574), (524, 23676), (542, 23715), (571, 23778), (599, 23823), (607, 23844), (651, 23943), (749, 24111), (778, 24159), (791, 24180), (804, 24207), (824, 24234), (840, 24264), (842, 24270), (860, 24306), (914, 24384), (973, 24486), (975, 24489), (1009, 24576), (1013, 24588), (1026, 24627), (1038, 24663), (1047, 24681), (1078, 24744),

Gene: Onyinye_65 Start: 45953, Stop: 47881, Start Num: 51
Candidate Starts for Onyinye_65:
(Start: 51 @45953 has 50 MA's), (62, 45974), (71, 46004), (106, 46103), (140, 46166), (173, 46238), (178, 46247), (202, 46295), (341, 46511), (354, 46532), (373, 46553), (375, 46556), (Start: 388 @46568 has 1 MA's), (408, 46595), (467, 46718), (509, 46754), (543, 46826), (550, 46835), (565, 46868), (591, 46925), (597, 46937), (639, 47006), (642, 47015), (655, 47033), (668, 47057), (727, 47153), (731, 47165), (745, 47198), (769, 47240), (807, 47303), (891, 47408), (1002, 47624), (1010, 47648), (1011, 47651), (1025, 47693), (1036, 47723), (1050, 47747), (1109, 47864),

Gene: Orchid_57 Start: 50422, Stop: 48932, Start Num: 243
Candidate Starts for Orchid_57:
(Start: 243 @50422 has 5 MA's), (301, 50329), (306, 50320), (312, 50308), (321, 50293), (336, 50275), (382, 50218), (427, 50146), (428, 50143), (467, 50050), (499, 50017), (517, 49984), (518, 49981), (528, 49960), (565, 49891), (581, 49855), (626, 49768), (668, 49705), (669, 49702), (686, 49672), (738, 49600), (742, 49591), (840, 49468), (842, 49462), (949, 49330), (974, 49288), (994, 49243), (1004, 49213), (1112, 48961),

Gene: OrediggerDelux_188 Start: 101687, Stop: 99825, Start Num: 119
Candidate Starts for OrediggerDelux_188:
(Start: 119 @101687 has 185 MA's), (Start: 145 @101627 has 1 MA's), (Start: 182 @101558 has 1 MA's), (420, 101186), (443, 101144), (449, 101126), (506, 101042), (518, 101018), (530, 100994), (532, 100991), (555, 100946), (579, 100895), (595, 100865), (601, 100853), (661, 100724), (713, 100631), (717, 100625), (746, 100562), (748, 100556), (811, 100460), (814, 100454), (879, 100343), (921, 100271), (932, 100256), (948, 100238), (951, 100229), (1004, 100109), (1010, 100091), (1047, 99992), (1048, 99989), (1058, 99968), (1083, 99914), (1107, 99878),

Gene: Orpington_40 Start: 31107, Stop: 29695, Start Num: 360
Candidate Starts for Orpington_40:
(Start: 358 @31110 has 23 MA's), (Start: 360 @31107 has 155 MA's), (384, 31077), (Start: 388 @31071 has 1 MA's), (411, 31038), (503, 30846), (518, 30819), (551, 30759), (562, 30732), (563, 30729), (583, 30687), (595, 30663), (611, 30633), (634, 30591), (686, 30477), (721, 30420), (732, 30399), (738, 30384), (743, 30372), (748, 30360), (750, 30357), (763, 30339), (809, 30258), (836, 30222), (862, 30168), (887, 30126), (907, 30096), (923, 30072), (930, 30066), (958, 30024), (989, 29955), (999, 29931), (1000, 29925), (1002, 29919), (1007, 29907), (1045, 29811), (1048, 29802), (1058, 29784), (1061, 29772), (1083, 29727),

Gene: Ottawa_61 Start: 33948, Stop: 35849, Start Num: 171
Candidate Starts for Ottawa_61:
(133, 33855), (Start: 171 @33948 has 2 MA's), (210, 34035), (237, 34089), (264, 34140), (293, 34188), (308, 34212), (391, 34338), (397, 34347), (494, 34533), (517, 34575), (584, 34722), (592, 34743), (620, 34800), (631, 34824), (645, 34866), (665, 34902), (735, 35040), (786, 35142), (856, 35268), (868, 35292), (890, 35334), (1021, 35619), (1046, 35682), (1061, 35712), (1103, 35793), (1112, 35808),

Gene: OtterstedtS21_60 Start: 40582, Stop: 42495, Start Num: 51
Candidate Starts for OtterstedtS21_60:
(Start: 50 @40579 has 13 MA's), (Start: 51 @40582 has 50 MA's), (Start: 58 @40594 has 39 MA's), (75, 40642), (87, 40675), (115, 40744), (158, 40834), (173, 40861), (178, 40870), (Start: 222 @40942 has 29 MA's), (271, 41029), (296, 41062), (335, 41125), (399, 41215), (506, 41371), (518, 41395), (538, 41437), (562, 41485), (572, 41506), (581, 41527), (610, 41584), (638, 41638), (662, 41680), (689, 41740), (745, 41836), (746, 41839), (881, 42016), (918, 42067), (969, 42157), (989, 42193), (992, 42199), (1010, 42253), (1022, 42292), (1066, 42394), (1072, 42409), (1083, 42430),

Gene: Outis_73 Start: 56760, Stop: 54685, Start Num: 35
Candidate Starts for Outis_73:
(Start: 35 @56760 has 37 MA's), (75, 56640), (Start: 93 @56595 has 1 MA's), (94, 56592), (Start: 200 @56349 has 9 MA's), (Start: 243 @56292 has 5 MA's), (271, 56241), (309, 56187), (348, 56124), (409, 56034), (411, 56031), (426, 56007), (450, 55971), (547, 55815), (561, 55791), (618, 55668), (668, 55557), (679, 55533), (731, 55434), (755, 55380), (791, 55326), (814, 55284), (842, 55245), (889, 55176), (903, 55143), (925, 55107), (950, 55062), (957, 55050), (989, 54990), (1011, 54927), (1041, 54846), (1080, 54762),

Gene: OverHedge_40 Start: 25901, Stop: 27808, Start Num: 58
Candidate Starts for OverHedge_40:
(Start: 58 @25901 has 39 MA's), (83, 25964), (96, 25985), (115, 26039), (202, 26216), (Start: 235 @26261 has 1 MA's), (341, 26435), (348, 26444), (409, 26534), (440, 26591), (539, 26777), (610, 26912), (616, 26924), (639, 26957), (731, 27086), (796, 27203), (856, 27278), (987, 27512), (990, 27515), (1010, 27575), (1044, 27665), (1058, 27695), (1074, 27737), (1102, 27788),

Gene: Oxtober96_42 Start: 31119, Stop: 29731, Start Num: 360
Candidate Starts for Oxtober96_42:
(Start: 49 @31770 has 8 MA's), (187, 31416), (220, 31341), (Start: 360 @31119 has 155 MA's), (445, 30975), (448, 30969), (449, 30966), (503, 30852), (518, 30825), (551, 30765), (562, 30738), (563, 30735), (611, 30639), (634, 30597), (721, 30426), (732, 30405), (743, 30378), (769, 30330), (836, 30270), (932, 30111), (966, 30057), (1000, 29973), (1002, 29967), (1007, 29955), (1045, 29859), (1068, 29805), (1070, 29802), (1081, 29778),

Gene: Oxynfrius_29 Start: 22093, Stop: 23484, Start Num: 333
Candidate Starts for Oxynfrius_29:
(Start: 333 @22093 has 73 MA's), (406, 22180), (448, 22252), (449, 22255), (477, 22321), (484, 22339), (486, 22345), (512, 22372), (544, 22429), (566, 22480), (588, 22519), (607, 22555), (616, 22573), (634, 22609), (640, 22630), (646, 22648), (677, 22681), (699, 22720), (730, 22762), (740, 22789), (753, 22813), (773, 22849), (778, 22855), (798, 22888), (804, 22903), (814, 22912), (840, 22957), (857, 22990), (858, 22993), (926, 23098), (934, 23110), (944, 23128), (988, 23218), (997, 23239), (998, 23242), (1007, 23266), (1009, 23275), (1038, 23362), (1065, 23413), (1084, 23452), (1094, 23476),

Gene: P1201_75 Start: 57035, Stop: 55065, Start Num: 65
Candidate Starts for P1201_75:
(Start: 65 @57035 has 8 MA's), (114, 56897), (124, 56873), (186, 56741), (259, 56618), (271, 56600), (274, 56597), (409, 56390), (509, 56249), (639, 55979), (649, 55955), (662, 55934), (686, 55886), (731, 55790), (745, 55757), (780, 55700), (783, 55694), (784, 55691), (907, 55502), (1002, 55319), (1011, 55292), (1031, 55229), (1041, 55211),

Gene: PBI1_50 Start: 39660, Stop: 41603, Start Num: 51
Candidate Starts for PBI1_50:

(Start: 51 @39660 has 50 MA's), (66, 39687), (88, 39759), (107, 39813), (140, 39873), (147, 39891), (150, 39900), (177, 39951), (195, 39993), (Start: 222 @40029 has 29 MA's), (271, 40116), (331, 40209), (341, 40224), (354, 40245), (433, 40347), (447, 40380), (458, 40404), (509, 40464), (554, 40551), (587, 40626), (639, 40716), (668, 40767), (669, 40770), (720, 40860), (731, 40878), (745, 40911), (778, 40965), (784, 40977), (796, 40995), (842, 41058), (903, 41142), (969, 41259), (989, 41307), (1011, 41370), (1041, 41454),

Gene: PHTowN_70 Start: 50156, Stop: 48270, Start Num: 49
Candidate Starts for PHTowN_70:
(31, 50216), (Start: 49 @50156 has 8 MA's), (Start: 58 @50141 has 39 MA's), (83, 50078), (89, 50069), (96, 50057), (137, 49964), (161, 49901), (172, 49883), (202, 49826), (Start: 222 @49802 has 29 MA's), (315, 49643), (341, 49604), (348, 49595), (418, 49487), (470, 49379), (538, 49274), (586, 49175), (616, 49115), (666, 49028), (668, 49025), (745, 48920), (748, 48911), (755, 48899), (815, 48800), (870, 48761), (918, 48683), (926, 48671), (943, 48644), (990, 48554), (997, 48539), (1013, 48485), (1031, 48428), (1092, 48302),

Gene: PLot_53 Start: 39756, Stop: 41699, Start Num: 51
Candidate Starts for PLot_53:
(32, 39693), (Start: 51 @39756 has 50 MA's), (66, 39783), (88, 39855), (107, 39909), (140, 39969), (150, 39996), (177, 40047), (195, 40089), (Start: 222 @40125 has 29 MA's), (271, 40212), (331, 40305), (341, 40320), (354, 40341), (433, 40443), (447, 40476), (458, 40500), (509, 40560), (554, 40647), (587, 40722), (639, 40812), (668, 40863), (669, 40866), (720, 40956), (731, 40974), (745, 41007), (784, 41073), (796, 41091), (842, 41154), (903, 41238), (969, 41355), (989, 41403), (1011, 41466), (1041, 41550),

Gene: PSirce_40 Start: 31102, Stop: 29690, Start Num: 360
Candidate Starts for PSirce_40:
(Start: 358 @31105 has 23 MA's), (Start: 360 @31102 has 155 MA's), (384, 31072), (Start: 388 @31066 has 1 MA's), (411, 31033), (503, 30841), (518, 30814), (551, 30754), (562, 30727), (563, 30724), (583, 30682), (595, 30658), (611, 30628), (634, 30586), (721, 30415), (732, 30394), (738, 30379), (743, 30367), (748, 30355), (750, 30352), (763, 30334), (809, 30253), (836, 30217), (862, 30163), (887, 30121), (907, 30091), (923, 30067), (930, 30061), (957, 30022), (958, 30019), (989, 29950), (999, 29926), (1000, 29920), (1002, 29914), (1007, 29902), (1045, 29806), (1048, 29797), (1058, 29779), (1061, 29767), (1083, 29722),

Gene: Pajaza_37 Start: 29766, Stop: 28396, Start Num: 360
Candidate Starts for Pajaza_37:
(Start: 360 @29766 has 155 MA's), (441, 29637), (450, 29616), (500, 29505), (502, 29502), (546, 29418), (551, 29412), (556, 29400), (563, 29382), (574, 29361), (611, 29286), (630, 29253), (715, 29082), (717, 29079), (721, 29073), (725, 29070), (738, 29037), (769, 28977), (836, 28917), (839, 28911), (840, 28908), (841, 28905), (887, 28821), (971, 28689), (989, 28650), (999, 28626), (1000, 28620), (1007, 28602), (1045, 28506), (1058, 28479), (1061, 28467), (1076, 28434), (1083, 28422),

Gene: Panchaali_92 Start: 77571, Stop: 79412, Start Num: 60
Candidate Starts for Panchaali_92:
(Start: 60 @77571 has 17 MA's), (Start: 160 @77829 has 1 MA's), (167, 77844), (Start: 252 @77949 has 13 MA's), (271, 77985), (290, 78015), (331, 78084), (336, 78093), (344, 78105), (367, 78138), (487, 78264), (591, 78477), (614, 78522), (647, 78582), (671, 78627), (729, 78684), (731, 78690), (745, 78723), (750, 78735), (757, 78747), (842, 78864), (843, 78867), (869, 78891), (893, 78933), (906, 78960), (925, 78993), (940, 79017), (970, 79077), (1011, 79170), (1018, 79194), (1089, 79362), (1092, 79365),

Gene: Papafritta_40 Start: 30824, Stop: 29436, Start Num: 360

Candidate Starts for Papafritta_40:
(187, 31121), (220, 31046), (Start: 360 @30824 has 155 MA's), (445, 30680), (448, 30674), (449, 30671), (503, 30557), (518, 30530), (551, 30470), (562, 30443), (563, 30440), (611, 30344), (634, 30302), (721, 30131), (732, 30110), (738, 30095), (769, 30035), (814, 30002), (836, 29975), (887, 29879), (932, 29816), (966, 29762), (1000, 29678), (1002, 29672), (1007, 29660), (1045, 29564), (1068, 29510), (1070, 29507), (1081, 29483),

Gene: Papyrus_66 Start: 47571, Stop: 49331, Start Num: 188
Candidate Starts for Papyrus_66:
(Start: 188 @47571 has 10 MA's), (Start: 232 @47640 has 1 MA's), (292, 47736), (300, 47745), (348, 47826), (378, 47871), (506, 48072), (530, 48120), (561, 48180), (565, 48192), (596, 48258), (655, 48381), (668, 48405), (679, 48429), (731, 48633), (745, 48666), (751, 48681), (778, 48720), (780, 48723), (784, 48732), (842, 48801), (933, 48933), (989, 49056), (990, 49059), (1000, 49086), (1010, 49116), (1012, 49122), (1013, 49125), (1018, 49143), (1022, 49155), (1083, 49290), (1096, 49317), (1098, 49320),

Gene: Park1214_126 Start: 68133, Stop: 69704, Start Num: 244
Candidate Starts for Park1214_126:
(Start: 244 @68133 has 6 MA's), (307, 68214), (313, 68220), (325, 68241), (330, 68247), (367, 68298), (372, 68304), (413, 68367), (458, 68451), (508, 68517), (513, 68526), (552, 68604), (573, 68655), (620, 68757), (623, 68766), (631, 68781), (656, 68832), (661, 68841), (674, 68868), (696, 68916), (713, 68931), (1001, 69417), (1007, 69429), (1049, 69549), (1056, 69561), (1086, 69630), (1091, 69636), (1121, 69684),

Gene: ParkTD_186 Start: 101019, Stop: 99157, Start Num: 119
Candidate Starts for ParkTD_186:
(Start: 119 @101019 has 185 MA's), (Start: 145 @100959 has 1 MA's), (Start: 182 @100890 has 1 MA's), (420, 100518), (443, 100476), (449, 100458), (506, 100374), (518, 100350), (530, 100326), (532, 100323), (555, 100278), (579, 100227), (595, 100197), (601, 100185), (661, 100056), (713, 99963), (717, 99957), (746, 99894), (748, 99888), (811, 99792), (814, 99786), (879, 99675), (921, 99603), (948, 99570), (951, 99561), (1004, 99441), (1010, 99423), (1047, 99324), (1048, 99321), (1058, 99300), (1083, 99246), (1107, 99210),

Gene: ParleG_41 Start: 31121, Stop: 29733, Start Num: 360
Candidate Starts for ParleG_41:
(Start: 49 @31772 has 8 MA's), (187, 31418), (220, 31343), (Start: 360 @31121 has 155 MA's), (445, 30977), (448, 30971), (449, 30968), (503, 30854), (518, 30827), (551, 30767), (562, 30740), (563, 30737), (611, 30641), (634, 30599), (715, 30437), (721, 30428), (732, 30407), (738, 30392), (743, 30380), (769, 30332), (836, 30272), (887, 30176), (932, 30113), (966, 30059), (1000, 29975), (1002, 29969), (1007, 29957), (1045, 29861), (1068, 29807), (1070, 29804), (1081, 29780),

Gene: PartyCup_29 Start: 22162, Stop: 23556, Start Num: 333
Candidate Starts for PartyCup_29:
(Start: 333 @22162 has 73 MA's), (381, 22219), (448, 22324), (484, 22411), (540, 22495), (542, 22498), (544, 22501), (588, 22591), (607, 22627), (612, 22636), (616, 22645), (640, 22702), (646, 22720), (677, 22753), (686, 22765), (730, 22834), (740, 22861), (753, 22885), (773, 22921), (778, 22927), (798, 22960), (804, 22975), (814, 22984), (863, 23074), (908, 23143), (926, 23170), (939, 23188), (944, 23200), (988, 23290), (990, 23296), (994, 23305), (997, 23311), (1009, 23347), (1038, 23434), (1067, 23491), (1084, 23524), (1094, 23548),

Gene: Parvaparticeps_24 Start: 17958, Stop: 16552, Start Num: 340
Candidate Starts for Parvaparticeps_24:

(340, 17958), (443, 17817), (448, 17802), (483, 17718), (525, 17655), (540, 17622), (571, 17556), (582, 17535), (588, 17526), (599, 17511), (612, 17481), (626, 17451), (646, 17397), (749, 17235), (798, 17154), (824, 17109), (840, 17079), (841, 17076), (860, 17037), (926, 16938), (939, 16920), (944, 16908), (955, 16890), (1007, 16770), (1009, 16761), (1026, 16710), (1030, 16701), (1031, 16692), (1038, 16674), (1047, 16656), (1078, 16593), (1084, 16584), (1094, 16560),

Gene: ParvusTarda_59 Start: 39954, Stop: 41870, Start Num: 50
Candidate Starts for ParvusTarda_59:
(20, 39831), (21, 39840), (24, 39852), (28, 39885), (Start: 50 @39954 has 13 MA's), (Start: 51 @39957 has 50 MA's), (Start: 58 @39969 has 39 MA's), (75, 40017), (87, 40050), (115, 40119), (158, 40209), (173, 40236), (178, 40245), (Start: 222 @40317 has 29 MA's), (271, 40404), (296, 40437), (335, 40500), (399, 40590), (506, 40746), (518, 40770), (538, 40812), (562, 40860), (572, 40881), (581, 40902), (610, 40959), (638, 41013), (662, 41055), (689, 41115), (745, 41211), (746, 41214), (881, 41391), (918, 41442), (969, 41532), (989, 41568), (992, 41574), (1010, 41628), (1022, 41667), (1066, 41769), (1072, 41784), (1083, 41805),

Gene: Patbob_100 Start: 80820, Stop: 82658, Start Num: 60
Candidate Starts for Patbob_100:
(Start: 60 @80820 has 17 MA's), (123, 80979), (167, 81075), (224, 81135), (Start: 243 @81165 has 5 MA's), (296, 81255), (314, 81285), (344, 81336), (446, 81396), (638, 81792), (647, 81813), (671, 81858), (731, 81921), (745, 81954), (750, 81966), (757, 81978), (784, 82023), (807, 82062), (852, 82119), (869, 82125), (888, 82158), (925, 82227), (970, 82311), (1018, 82428), (1093, 82602), (1118, 82644),

Gene: Patience_76 Start: 49716, Stop: 51749, Start Num: 47
Candidate Starts for Patience_76:
(Start: 47 @49716 has 4 MA's), (63, 49740), (82, 49803), (108, 49869), (138, 49920), (139, 49923), (187, 50031), (202, 50064), (229, 50103), (246, 50127), (281, 50190), (296, 50208), (300, 50211), (309, 50229), (314, 50235), (Start: 358 @50304 has 23 MA's), (376, 50331), (384, 50343), (410, 50376), (462, 50478), (543, 50601), (561, 50631), (610, 50736), (618, 50754), (666, 50844), (668, 50847), (705, 50949), (716, 50988), (727, 51015), (729, 51021), (731, 51027), (751, 51075), (763, 51093), (778, 51120), (784, 51132), (791, 51141), (985, 51429), (1031, 51558), (1050, 51591), (1058, 51609), (1081, 51663), (1102, 51702),

Gene: Patio_74 Start: 56655, Stop: 54598, Start Num: 35
Candidate Starts for Patio_74:
(6, 56943), (10, 56835), (Start: 35 @56655 has 37 MA's), (187, 56280), (255, 56172), (274, 56139), (309, 56088), (345, 56028), (348, 56025), (398, 55953), (409, 55935), (450, 55872), (453, 55866), (464, 55839), (520, 55773), (538, 55734), (547, 55716), (561, 55692), (587, 55632), (618, 55569), (637, 55536), (668, 55473), (731, 55350), (767, 55281), (778, 55263), (842, 55158), (847, 55149), (889, 55089), (903, 55056), (907, 55050), (925, 55020), (957, 54963), (989, 54903), (1000, 54873), (1011, 54840), (1080, 54675),

Gene: Patos_63 Start: 40959, Stop: 42872, Start Num: 51
Candidate Starts for Patos_63:
(20, 40833), (21, 40842), (24, 40854), (28, 40887), (Start: 50 @40956 has 13 MA's), (Start: 51 @40959 has 50 MA's), (Start: 58 @40971 has 39 MA's), (75, 41019), (115, 41121), (158, 41211), (173, 41238), (178, 41247), (Start: 222 @41319 has 29 MA's), (296, 41439), (335, 41502), (399, 41592), (418, 41619), (506, 41748), (518, 41772), (538, 41814), (562, 41862), (572, 41883), (581, 41904), (610, 41961), (618, 41979), (638, 42015), (662, 42057), (689, 42117), (745, 42213), (746, 42216), (881, 42393), (918, 42444), (969, 42534), (989, 42570), (992, 42576), (1010, 42630), (1022, 42669), (1066, 42771), (1072, 42786), (1083, 42807), (1115, 42864),

Gene: PatrickStar_58 Start: 50421, Stop: 48931, Start Num: 243
Candidate Starts for PatrickStar_58:
(Start: 243 @50421 has 5 MA's), (301, 50328), (306, 50319), (312, 50307), (321, 50292), (336, 50274), (382, 50217), (427, 50145), (428, 50142), (467, 50049), (499, 50016), (517, 49983), (518, 49980), (528, 49959), (565, 49890), (581, 49854), (626, 49767), (668, 49704), (669, 49701), (686, 49671), (738, 49599), (742, 49590), (840, 49467), (842, 49461), (949, 49329), (974, 49287), (994, 49242), (1004, 49212), (1112, 48960),

Gene: Patter_188 Start: 99728, Stop: 97866, Start Num: 119
Candidate Starts for Patter_188:
(Start: 119 @99728 has 185 MA's), (Start: 145 @99668 has 1 MA's), (Start: 182 @99599 has 1 MA's), (420, 99227), (443, 99185), (449, 99167), (506, 99083), (518, 99059), (530, 99035), (532, 99032), (555, 98987), (579, 98936), (595, 98906), (601, 98894), (661, 98765), (713, 98672), (717, 98666), (746, 98603), (748, 98597), (811, 98501), (814, 98495), (879, 98384), (921, 98312), (948, 98279), (951, 98270), (1004, 98150), (1010, 98132), (1047, 98033), (1048, 98030), (1058, 98009), (1083, 97955), (1107, 97919),

Gene: PauloDiaboli_114 Start: 78533, Stop: 76683, Start Num: 64
Candidate Starts for PauloDiaboli_114:
(40, 78602), (41, 78596), (Start: 64 @78533 has 19 MA's), (76, 78488), (Start: 80 @78476 has 2 MA's), (139, 78350), (164, 78287), (224, 78212), (288, 78104), (300, 78086), (341, 78017), (Start: 358 @77990 has 23 MA's), (444, 77930), (518, 77765), (587, 77621), (636, 77534), (647, 77507), (668, 77471), (671, 77462), (729, 77405), (731, 77399), (750, 77354), (757, 77342), (770, 77321), (786, 77297), (807, 77261), (852, 77216), (907, 77132), (909, 77129), (913, 77123), (949, 77060), (1000, 76958), (1030, 76871), (1048, 76829), (1068, 76778),

Gene: Pavlo_78 Start: 49360, Stop: 47837, Start Num: 250
Candidate Starts for Pavlo_78:
(130, 49621), (Start: 250 @49360 has 29 MA's), (336, 49249), (363, 49210), (375, 49201), (435, 49105), (451, 49063), (459, 49045), (482, 48991), (515, 48946), (517, 48943), (568, 48841), (626, 48718), (640, 48682), (660, 48643), (690, 48577), (713, 48550), (726, 48532), (737, 48502), (766, 48442), (784, 48412), (792, 48400), (795, 48394), (986, 48085), (995, 48067), (1010, 48025), (1012, 48019), (1017, 48001), (1018, 47998), (1072, 47872),

Gene: Peep_41 Start: 31106, Stop: 29718, Start Num: 360
Candidate Starts for Peep_41:
(220, 31328), (320, 31166), (Start: 360 @31106 has 155 MA's), (445, 30962), (448, 30956), (449, 30953), (503, 30839), (518, 30812), (551, 30752), (562, 30725), (563, 30722), (611, 30626), (634, 30584), (721, 30413), (732, 30392), (738, 30377), (743, 30365), (769, 30317), (836, 30257), (887, 30161), (932, 30098), (966, 30044), (1000, 29960), (1002, 29954), (1007, 29942), (1045, 29846), (1068, 29792), (1070, 29789), (1081, 29765),

Gene: Pemberton_72 Start: 52928, Stop: 50847, Start Num: 35
Candidate Starts for Pemberton_72:
(9, 53120), (11, 53102), (18, 53027), (Start: 35 @52928 has 37 MA's), (115, 52697), (271, 52409), (296, 52376), (309, 52355), (343, 52301), (345, 52295), (348, 52292), (409, 52202), (411, 52199), (450, 52139), (547, 51983), (618, 51836), (668, 51728), (679, 51704), (731, 51602), (755, 51548), (767, 51533), (814, 51452), (842, 51413), (886, 51350), (903, 51311), (907, 51305), (925, 51275), (989, 51158), (1011, 51095), (1031, 51032), (1041, 51014), (1080, 50930),

Gene: Penelope2018_53 Start: 39774, Stop: 41717, Start Num: 51
Candidate Starts for Penelope2018_53:

(30, 39705), (Start: 51 @39774 has 50 MA's), (66, 39801), (88, 39873), (107, 39927), (140, 39987), (147, 40005), (150, 40014), (177, 40065), (195, 40107), (Start: 222 @40143 has 29 MA's), (271, 40230), (331, 40323), (341, 40338), (354, 40359), (433, 40461), (447, 40494), (458, 40518), (509, 40578), (554, 40665), (587, 40740), (639, 40830), (668, 40881), (669, 40884), (720, 40974), (731, 40992), (745, 41025), (778, 41079), (784, 41091), (796, 41109), (842, 41172), (903, 41256), (969, 41373), (989, 41421), (1011, 41484), (1041, 41568),

Gene: Penta_37 Start: 29174, Stop: 27789, Start Num: 352
Candidate Starts for Penta_37:
(Start: 352 @29174 has 2 MA's), (474, 28961), (503, 28898), (515, 28877), (562, 28784), (563, 28781), (574, 28760), (583, 28739), (634, 28643), (686, 28529), (693, 28505), (721, 28472), (733, 28448), (738, 28436), (743, 28424), (748, 28412), (750, 28409), (763, 28391), (811, 28349), (836, 28316), (841, 28304), (847, 28292), (887, 28220), (907, 28190), (989, 28049), (993, 28040), (999, 28025), (1000, 28019), (1002, 28013), (1045, 27905), (1048, 27896), (1061, 27866), (1081, 27824),

Gene: Peppino_40 Start: 31250, Stop: 29859, Start Num: 358
Candidate Starts for Peppino_40:
(Start: 279 @31364 has 1 MA's), (338, 31280), (Start: 358 @31250 has 23 MA's), (445, 31103), (448, 31097), (449, 31094), (503, 30980), (518, 30953), (551, 30893), (562, 30866), (563, 30863), (611, 30767), (634, 30725), (721, 30554), (732, 30533), (743, 30506), (836, 30398), (887, 30302), (966, 30185), (973, 30167), (1000, 30101), (1002, 30095), (1045, 29987), (1068, 29933), (1070, 29930), (1081, 29906), (1098, 29876),

Gene: PermaG_34 Start: 23404, Stop: 24831, Start Num: 339
Candidate Starts for PermaG_34:
(312, 23362), (Start: 339 @23404 has 21 MA's), (448, 23560), (540, 23758), (542, 23761), (544, 23764), (555, 23782), (599, 23869), (607, 23890), (651, 23989), (692, 24055), (749, 24157), (752, 24160), (778, 24205), (791, 24226), (804, 24253), (824, 24280), (827, 24283), (837, 24295), (840, 24310), (842, 24316), (860, 24352), (888, 24388), (895, 24400), (914, 24430), (963, 24514), (973, 24532), (975, 24535), (1009, 24622), (1013, 24634), (1026, 24673), (1038, 24709), (1042, 24715), (1078, 24790),

Gene: PeteyPab_71 Start: 52509, Stop: 50584, Start Num: 65
Candidate Starts for PeteyPab_71:
(33, 52602), (34, 52596), (Start: 65 @52509 has 8 MA's), (134, 52338), (155, 52284), (271, 52080), (375, 51924), (409, 51873), (411, 51870), (442, 51828), (508, 51741), (509, 51738), (543, 51666), (550, 51657), (729, 51306), (731, 51300), (745, 51267), (957, 50928), (992, 50862), (997, 50850), (1002, 50832), (1011, 50805), (1031, 50742), (1050, 50709), (1081, 50637),

Gene: Phabba_186 Start: 98843, Stop: 96996, Start Num: 122
Candidate Starts for Phabba_186:
(Start: 122 @98843 has 2 MA's), (Start: 131 @98822 has 2 MA's), (157, 98765), (203, 98669), (214, 98642), (218, 98633), (278, 98525), (415, 98342), (420, 98336), (425, 98327), (448, 98276), (506, 98192), (508, 98189), (590, 98024), (595, 98015), (601, 98003), (640, 97913), (650, 97892), (658, 97880), (696, 97796), (713, 97781), (717, 97775), (736, 97757), (743, 97742), (746, 97736), (804, 97640), (814, 97625), (815, 97622), (886, 97505), (906, 97469), (911, 97460), (951, 97403), (968, 97370), (980, 97337), (1010, 97265), (1048, 97163), (1058, 97145), (1073, 97109), (1087, 97079), (1115, 97040), (1120, 97028),

Gene: Phalaborwa_53 Start: 39879, Stop: 41825, Start Num: 50
Candidate Starts for Phalaborwa_53:
(Start: 50 @39879 has 13 MA's), (85, 39975), (88, 39981), (107, 40035), (140, 40095), (150, 40122), (177, 40173), (178, 40176), (195, 40215), (Start: 222 @40251 has 29 MA's), (271, 40338), (331,

40431), (341, 40446), (354, 40467), (433, 40569), (447, 40602), (458, 40626), (509, 40686), (554, 40773), (591, 40857), (668, 40989), (669, 40992), (681, 41016), (720, 41082), (731, 41100), (745, 41133), (778, 41187), (784, 41199), (796, 41217), (842, 41280), (903, 41364), (969, 41481), (989, 41529), (1011, 41592), (1041, 41676),

Gene: Phanita_41 Start: 30883, Stop: 29468, Start Num: 358
Candidate Starts for Phanita_41:
(Start: 358 @30883 has 23 MA's), (Start: 360 @30880 has 155 MA's), (384, 30850), (Start: 388 @30844 has 1 MA's), (411, 30811), (503, 30619), (518, 30592), (551, 30532), (562, 30505), (563, 30502), (583, 30460), (611, 30406), (634, 30364), (686, 30250), (721, 30193), (732, 30172), (743, 30145), (748, 30133), (750, 30130), (763, 30112), (809, 30031), (836, 29995), (862, 29941), (887, 29899), (907, 29869), (923, 29845), (930, 29839), (958, 29797), (989, 29728), (999, 29704), (1000, 29698), (1002, 29692), (1007, 29680), (1058, 29557), (1061, 29545), (1083, 29500),

Gene: PharkleMinkus_188 Start: 100754, Stop: 98892, Start Num: 119
Candidate Starts for PharkleMinkus_188:
(Start: 119 @100754 has 185 MA's), (Start: 145 @100694 has 1 MA's), (Start: 182 @100625 has 1 MA's), (420, 100253), (443, 100211), (449, 100193), (506, 100109), (518, 100085), (530, 100061), (532, 100058), (555, 100013), (579, 99962), (595, 99932), (601, 99920), (661, 99791), (713, 99698), (717, 99692), (746, 99629), (748, 99623), (811, 99527), (814, 99521), (879, 99410), (921, 99338), (948, 99305), (951, 99296), (1004, 99176), (1010, 99158), (1047, 99059), (1048, 99056), (1058, 99035), (1083, 98981), (1107, 98945),

Gene: Pharpay_40 Start: 25956, Stop: 27863, Start Num: 58
Candidate Starts for Pharpay_40:
(Start: 58 @25956 has 39 MA's), (83, 26019), (96, 26040), (115, 26094), (202, 26271), (Start: 235 @26316 has 1 MA's), (341, 26490), (348, 26499), (409, 26589), (440, 26646), (539, 26832), (610, 26967), (616, 26979), (639, 27012), (731, 27141), (796, 27258), (856, 27333), (987, 27567), (990, 27570), (1010, 27630), (1044, 27720), (1058, 27750), (1074, 27792), (1102, 27843),

Gene: Phendrix_173 Start: 92821, Stop: 90896, Start Num: 64
Candidate Starts for Phendrix_173:
(Start: 64 @92821 has 19 MA's), (75, 92779), (123, 92665), (158, 92590), (196, 92521), (229, 92452), (453, 92179), (460, 92161), (469, 92137), (487, 92098), (578, 91918), (618, 91834), (636, 91810), (666, 91750), (671, 91738), (686, 91711), (745, 91642), (746, 91639), (838, 91474), (862, 91423), (871, 91399), (903, 91333), (926, 91294), (933, 91282), (993, 91174), (1004, 91141), (1011, 91120), (1021, 91087), (1044, 91036), (1052, 91018),

Gene: Pherbot_39 Start: 30554, Stop: 29172, Start Num: 358
Candidate Starts for Pherbot_39:
(338, 30581), (Start: 358 @30554 has 23 MA's), (Start: 362 @30551 has 4 MA's), (384, 30521), (445, 30413), (448, 30407), (449, 30404), (455, 30389), (551, 30203), (555, 30194), (563, 30173), (583, 30131), (611, 30077), (721, 29864), (732, 29843), (738, 29828), (743, 29816), (750, 29801), (770, 29765), (782, 29756), (809, 29741), (836, 29705), (891, 29606), (932, 29543), (951, 29516), (985, 29441), (989, 29435), (993, 29426), (999, 29411), (1000, 29405), (1002, 29399), (1007, 29387), (1058, 29264), (1061, 29252),

Gene: Pherferi_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Pherferi_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (715, 30430), (721, 30421), (732, 30400), (738, 30385), (743, 30373), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002,

29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Phiderman_41 Start: 31111, Stop: 29723, Start Num: 360
Candidate Starts for Phiderman_41:
(Start: 49 @31762 has 8 MA's), (187, 31408), (220, 31333), (Start: 360 @31111 has 155 MA's), (445, 30967), (448, 30961), (449, 30958), (503, 30844), (518, 30817), (551, 30757), (562, 30730), (563, 30727), (611, 30631), (634, 30589), (715, 30427), (721, 30418), (732, 30397), (738, 30382), (743, 30370), (769, 30322), (836, 30262), (887, 30166), (932, 30103), (966, 30049), (1000, 29965), (1002, 29959), (1007, 29947), (1045, 29851), (1068, 29797), (1070, 29794), (1081, 29770),

Gene: PhillyPhantom_40 Start: 31093, Stop: 29849, Start Num: 445
Candidate Starts for PhillyPhantom_40:
(Start: 279 @31354 has 1 MA's), (338, 31270), (Start: 358 @31240 has 23 MA's), (445, 31093), (448, 31087), (449, 31084), (503, 30970), (518, 30943), (551, 30883), (562, 30856), (563, 30853), (611, 30757), (634, 30715), (721, 30544), (732, 30523), (743, 30496), (836, 30388), (887, 30292), (966, 30175), (973, 30157), (1000, 30091), (1002, 30085), (1007, 30073), (1045, 29977), (1068, 29923), (1070, 29920), (1081, 29896), (1098, 29866),

Gene: PhillyPhilly_77 Start: 48897, Stop: 47374, Start Num: 250
Candidate Starts for PhillyPhilly_77:
(Start: 250 @48897 has 29 MA's), (336, 48786), (363, 48747), (375, 48738), (403, 48699), (435, 48642), (451, 48600), (482, 48528), (515, 48483), (517, 48480), (568, 48378), (626, 48255), (640, 48219), (660, 48180), (690, 48114), (713, 48087), (726, 48069), (737, 48039), (766, 47979), (784, 47949), (792, 47937), (795, 47931), (986, 47622), (995, 47604), (1010, 47562), (1012, 47556), (1017, 47538), (1018, 47535),

Gene: Philon9_57 Start: 53944, Stop: 52235, Start Num: 126
Candidate Starts for Philon9_57:
(Start: 126 @53944 has 9 MA's), (Start: 131 @53932 has 2 MA's), (Start: 185 @53812 has 1 MA's), (204, 53779), (227, 53749), (231, 53743), (301, 53635), (321, 53599), (336, 53575), (343, 53566), (348, 53557), (380, 53509), (382, 53506), (386, 53500), (Start: 388 @53497 has 1 MA's), (462, 53374), (469, 53353), (517, 53293), (558, 53221), (565, 53200), (572, 53185), (574, 53182), (578, 53173), (668, 53014), (691, 52963), (697, 52951), (700, 52945), (732, 52924), (751, 52879), (780, 52834), (803, 52792), (849, 52735), (870, 52705), (871, 52702), (873, 52699), (929, 52645), (999, 52522), (1004, 52504), (1047, 52387), (1048, 52384), (1054, 52372), (1119, 52252),

Gene: Phireproof_41 Start: 31120, Stop: 29732, Start Num: 360
Candidate Starts for Phireproof_41:
(220, 31342), (Start: 360 @31120 has 155 MA's), (445, 30976), (448, 30970), (449, 30967), (503, 30853), (518, 30826), (551, 30766), (562, 30739), (563, 30736), (611, 30640), (634, 30598), (715, 30436), (721, 30427), (732, 30406), (738, 30391), (743, 30379), (769, 30331), (836, 30271), (887, 30175), (932, 30112), (966, 30058), (1000, 29974), (1002, 29968), (1007, 29956), (1045, 29860), (1068, 29806), (1070, 29803), (1081, 29779),

Gene: Phlegm_191 Start: 100414, Stop: 98552, Start Num: 119
Candidate Starts for Phlegm_191:
(Start: 119 @100414 has 185 MA's), (Start: 145 @100354 has 1 MA's), (Start: 182 @100285 has 1 MA's), (420, 99913), (443, 99871), (449, 99853), (506, 99769), (518, 99745), (530, 99721), (532, 99718), (555, 99673), (579, 99622), (595, 99592), (601, 99580), (661, 99451), (713, 99358), (717, 99352), (746, 99289), (748, 99283), (811, 99187), (814, 99181), (879, 99070), (921, 98998), (948, 98965), (951, 98956), (1004, 98836), (1010, 98818), (1047, 98719), (1048, 98716), (1058, 98695), (1083, 98641), (1107, 98605),

Gene: Phomeo_71 Start: 56408, Stop: 54342, Start Num: 35
Candidate Starts for Phomeo_71:
(2, 56906), (5, 56705), (8, 56612), (9, 56600), (11, 56582), (Start: 35 @56408 has 37 MA's), (Start: 80 @56270 has 2 MA's), (92, 56246), (178, 56042), (Start: 200 @55997 has 9 MA's), (271, 55889), (345, 55775), (348, 55772), (409, 55682), (411, 55679), (450, 55619), (538, 55481), (547, 55463), (561, 55439), (618, 55316), (668, 55211), (731, 55085), (755, 55031), (834, 54905), (842, 54896), (854, 54872), (903, 54800), (907, 54794), (925, 54764), (957, 54707), (989, 54647), (1011, 54584), (1041, 54503),

Gene: Phox_188 Start: 101375, Stop: 99513, Start Num: 119
Candidate Starts for Phox_188:
(Start: 119 @101375 has 185 MA's), (Start: 145 @101315 has 1 MA's), (Start: 182 @101246 has 1 MA's), (420, 100874), (443, 100832), (449, 100814), (506, 100730), (518, 100706), (530, 100682), (532, 100679), (555, 100634), (579, 100583), (595, 100553), (601, 100541), (661, 100412), (713, 100319), (717, 100313), (746, 100250), (748, 100244), (811, 100148), (814, 100142), (879, 100031), (921, 99959), (948, 99926), (951, 99917), (1004, 99797), (1010, 99779), (1047, 99680), (1048, 99677), (1058, 99656), (1083, 99602), (1107, 99566),

Gene: Phrampa_94 Start: 82318, Stop: 84156, Start Num: 60
Candidate Starts for Phrampa_94:
(Start: 60 @82318 has 17 MA's), (123, 82477), (167, 82573), (224, 82633), (Start: 243 @82663 has 5 MA's), (296, 82753), (314, 82783), (446, 82894), (605, 83233), (647, 83311), (671, 83356), (731, 83419), (745, 83452), (750, 83464), (757, 83476), (767, 83491), (768, 83494), (784, 83521), (807, 83560), (852, 83617), (869, 83623), (888, 83656), (925, 83725), (970, 83809), (1018, 83926), (1093, 84100), (1118, 84142),

Gene: Phrappuccino_95 Start: 73805, Stop: 71901, Start Num: 116
Candidate Starts for Phrappuccino_95:
(Start: 116 @73805 has 2 MA's), (148, 73739), (157, 73724), (158, 73721), (Start: 182 @73676 has 1 MA's), (189, 73661), (217, 73601), (223, 73586), (266, 73505), (359, 73367), (425, 73271), (441, 73241), (458, 73202), (466, 73181), (515, 73118), (542, 73061), (554, 73043), (568, 73013), (579, 72989), (590, 72968), (595, 72959), (601, 72947), (656, 72821), (691, 72746), (729, 72692), (746, 72650), (748, 72644), (769, 72608), (879, 72431), (888, 72416), (921, 72359), (963, 72287), (976, 72257), (1004, 72188), (1007, 72182), (1022, 72131), (1058, 72050), (1068, 72026), (1070, 72023), (1092, 71978),

Gene: PhredFlintston_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for PhredFlintston_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (715, 30430), (721, 30421), (732, 30400), (738, 30385), (743, 30373), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Phreeze_60 Start: 45650, Stop: 47707, Start Num: 45
Candidate Starts for Phreeze_60:
(Start: 45 @45650 has 11 MA's), (72, 45710), (73, 45713), (106, 45806), (111, 45818), (120, 45839), (Start: 182 @45962 has 1 MA's), (183, 45965), (187, 45974), (202, 46007), (206, 46028), (229, 46076), (296, 46181), (309, 46202), (314, 46208), (348, 46262), (462, 46448), (466, 46460), (474, 46478), (506, 46493), (509, 46499), (668, 46817), (669, 46820), (689, 46865), (727, 46916), (731, 46928), (778, 47018), (784, 47030), (802, 47063), (819, 47087), (826, 47096), (907, 47186), (926, 47219), (985, 47330), (989, 47333), (990, 47336), (992, 47339), (1010, 47393), (1031, 47459), (1041, 47477), (1126, 47654),

Gene: Phriends_41 Start: 31120, Stop: 29732, Start Num: 360
Candidate Starts for Phriends_41:
(220, 31342), (Start: 360 @31120 has 155 MA's), (445, 30976), (448, 30970), (449, 30967), (503, 30853), (518, 30826), (551, 30766), (562, 30739), (563, 30736), (567, 30730), (611, 30640), (634, 30598), (721, 30427), (738, 30391), (743, 30379), (763, 30346), (769, 30331), (836, 30271), (887, 30175), (932, 30112), (966, 30058), (1000, 29974), (1002, 29968), (1007, 29956), (1045, 29860), (1068, 29806), (1070, 29803), (1081, 29779),

Gene: PhunaPhoke_40 Start: 25929, Stop: 27836, Start Num: 58
Candidate Starts for PhunaPhoke_40:
(Start: 58 @25929 has 39 MA's), (83, 25992), (96, 26013), (115, 26067), (202, 26244), (Start: 235 @26289 has 1 MA's), (341, 26463), (348, 26472), (409, 26562), (440, 26619), (539, 26805), (610, 26940), (616, 26952), (639, 26985), (731, 27114), (796, 27231), (856, 27306), (987, 27540), (990, 27543), (1010, 27603), (1044, 27693), (1058, 27723), (1074, 27765), (1102, 27816),

Gene: Phusco_187 Start: 100038, Stop: 98176, Start Num: 119
Candidate Starts for Phusco_187:
(Start: 119 @100038 has 185 MA's), (Start: 145 @99978 has 1 MA's), (Start: 182 @99909 has 1 MA's), (420, 99537), (443, 99495), (449, 99477), (506, 99393), (518, 99369), (530, 99345), (532, 99342), (555, 99297), (579, 99246), (595, 99216), (601, 99204), (661, 99075), (713, 98982), (717, 98976), (746, 98913), (748, 98907), (811, 98811), (814, 98805), (879, 98694), (921, 98622), (948, 98589), (951, 98580), (1004, 98460), (1010, 98442), (1047, 98343), (1048, 98340), (1058, 98319), (1083, 98265), (1107, 98229),

Gene: Pier_189 Start: 102627, Stop: 100765, Start Num: 119
Candidate Starts for Pier_189:
(Start: 119 @102627 has 185 MA's), (Start: 145 @102567 has 1 MA's), (Start: 182 @102498 has 1 MA's), (420, 102126), (443, 102084), (449, 102066), (506, 101982), (518, 101958), (530, 101934), (532, 101931), (555, 101886), (579, 101835), (595, 101805), (601, 101793), (661, 101664), (713, 101571), (717, 101565), (746, 101502), (748, 101496), (811, 101400), (814, 101394), (879, 101283), (921, 101211), (948, 101178), (951, 101169), (1004, 101049), (1010, 101031), (1047, 100932), (1048, 100929), (1058, 100908), (1083, 100854), (1107, 100818),

Gene: PierreThree_58 Start: 52668, Stop: 51259, Start Num: 294
Candidate Starts for PierreThree_58:
(102, 53046), (121, 52995), (142, 52944), (165, 52890), (181, 52860), (Start: 194 @52827 has 3 MA's), (201, 52818), (Start: 222 @52791 has 29 MA's), (Start: 294 @52668 has 29 MA's), (321, 52623), (348, 52581), (380, 52533), (382, 52530), (386, 52524), (Start: 388 @52521 has 1 MA's), (396, 52509), (401, 52503), (435, 52455), (436, 52452), (510, 52332), (520, 52314), (555, 52251), (565, 52227), (572, 52212), (617, 52119), (668, 52041), (695, 51981), (697, 51978), (726, 51969), (732, 51951), (750, 51909), (780, 51864), (791, 51846), (873, 51729), (883, 51714), (894, 51693), (972, 51612), (974, 51609), (999, 51552), (1000, 51546), (1004, 51534), (1020, 51483), (1026, 51468), (1030, 51459), (1047, 51420), (1052, 51408), (1097, 51312), (1107, 51297),

Gene: Pikmin_37 Start: 29766, Stop: 28396, Start Num: 360
Candidate Starts for Pikmin_37:
(Start: 360 @29766 has 155 MA's), (441, 29637), (450, 29616), (500, 29505), (502, 29502), (546, 29418), (551, 29412), (556, 29400), (563, 29382), (574, 29361), (611, 29286), (630, 29253), (715, 29082), (717, 29079), (721, 29073), (725, 29070), (738, 29037), (769, 28977), (836, 28917), (839, 28911), (840, 28908), (841, 28905), (887, 28821), (971, 28689), (989, 28650), (999, 28626), (1000, 28620), (1007, 28602), (1045, 28506), (1058, 28479), (1061, 28467), (1076, 28434), (1083, 28422),

Gene: PinkFriday_25 Start: 20614, Stop: 22011, Start Num: 333
Candidate Starts for PinkFriday_25:
(Start: 333 @20614 has 73 MA's), (381, 20674), (441, 20761), (448, 20779), (484, 20866), (486, 20872), (512, 20899), (540, 20950), (544, 20956), (571, 21016), (582, 21037), (588, 21046), (607, 21082), (616, 21100), (617, 21103), (634, 21136), (640, 21157), (646, 21175), (651, 21181), (677, 21208), (692, 21235), (730, 21289), (734, 21301), (740, 21316), (753, 21340), (763, 21355), (766, 21361), (778, 21382), (798, 21415), (804, 21430), (814, 21439), (842, 21490), (888, 21562), (926, 21625), (939, 21643), (975, 21715), (983, 21739), (988, 21745), (989, 21748), (997, 21766), (1009, 21802), (1038, 21889), (1084, 21979), (1094, 22003),

Gene: Pio_196 Start: 103822, Stop: 101960, Start Num: 119
Candidate Starts for Pio_196:
(Start: 119 @103822 has 185 MA's), (Start: 145 @103762 has 1 MA's), (Start: 182 @103693 has 1 MA's), (420, 103321), (443, 103279), (449, 103261), (506, 103177), (518, 103153), (530, 103129), (532, 103126), (555, 103081), (579, 103030), (595, 103000), (601, 102988), (661, 102859), (713, 102766), (717, 102760), (746, 102697), (748, 102691), (811, 102595), (814, 102589), (879, 102478), (921, 102406), (948, 102373), (951, 102364), (1004, 102244), (1010, 102226), (1047, 102127), (1048, 102124), (1058, 102103), (1083, 102049), (1107, 102013),

Gene: Pioneer3_77 Start: 49273, Stop: 47750, Start Num: 250
Candidate Starts for Pioneer3_77:
(214, 49339), (226, 49312), (Start: 250 @49273 has 29 MA's), (363, 49123), (375, 49114), (435, 49018), (448, 48985), (459, 48958), (482, 48904), (515, 48859), (517, 48856), (566, 48751), (568, 48748), (626, 48625), (631, 48616), (635, 48604), (660, 48550), (713, 48457), (766, 48349), (784, 48319), (787, 48313), (789, 48310), (792, 48307), (814, 48274), (822, 48262), (903, 48136), (938, 48088), (986, 47998), (995, 47980), (1012, 47932), (1061, 47809),

Gene: PitaDog_25 Start: 20567, Stop: 21961, Start Num: 333
Candidate Starts for PitaDog_25:
(Start: 333 @20567 has 73 MA's), (381, 20624), (448, 20729), (449, 20732), (484, 20816), (512, 20849), (540, 20900), (544, 20906), (582, 20987), (584, 20990), (588, 20996), (607, 21032), (616, 21050), (617, 21053), (634, 21086), (640, 21107), (730, 21239), (740, 21266), (763, 21305), (773, 21326), (778, 21332), (798, 21365), (804, 21380), (814, 21389), (840, 21434), (858, 21470), (888, 21512), (926, 21575), (939, 21593), (988, 21695), (989, 21698), (997, 21716), (998, 21719), (1007, 21743), (1009, 21752), (1038, 21839), (1084, 21929), (1094, 21953),

Gene: Pivoine_188 Start: 100414, Stop: 98552, Start Num: 119
Candidate Starts for Pivoine_188:
(Start: 119 @100414 has 185 MA's), (Start: 145 @100354 has 1 MA's), (Start: 182 @100285 has 1 MA's), (420, 99913), (443, 99871), (449, 99853), (506, 99769), (518, 99745), (530, 99721), (532, 99718), (555, 99673), (579, 99622), (595, 99592), (601, 99580), (661, 99451), (713, 99358), (717, 99352), (746, 99289), (748, 99283), (811, 99187), (814, 99181), (879, 99070), (921, 98998), (948, 98965), (951, 98956), (1004, 98836), (1010, 98818), (1047, 98719), (1048, 98716), (1058, 98695), (1083, 98641), (1107, 98605),

Gene: Platte_76 Start: 49041, Stop: 47518, Start Num: 250
Candidate Starts for Platte_76:
(214, 49107), (226, 49080), (Start: 250 @49041 has 29 MA's), (363, 48891), (375, 48882), (435, 48786), (448, 48753), (459, 48726), (482, 48672), (515, 48627), (517, 48624), (566, 48519), (568, 48516), (626, 48393), (631, 48384), (635, 48372), (660, 48318), (713, 48225), (766, 48117), (784, 48087), (787, 48081), (789, 48078), (792, 48075), (814, 48042), (822, 48030), (903, 47904), (938, 47856), (986, 47766), (995, 47748), (1012, 47700), (1061, 47577),

Gene: Pleakley_82 Start: 56142, Stop: 54094, Start Num: 35
Candidate Starts for Pleakley_82:
(Start: 35 @56142 has 37 MA's), (86, 55989), (96, 55974), (Start: 126 @55893 has 9 MA's), (187, 55770), (Start: 200 @55740 has 9 MA's), (271, 55632), (296, 55599), (328, 55548), (348, 55515), (409, 55425), (Start: 430 @55392 has 1 MA's), (450, 55362), (508, 55287), (547, 55206), (572, 55155), (618, 55059), (637, 55026), (653, 54990), (668, 54963), (729, 54846), (731, 54840), (767, 54771), (778, 54753), (784, 54741), (889, 54579), (907, 54546), (925, 54516), (933, 54501), (957, 54459), (1011, 54336), (1041, 54255), (1055, 54231), (1080, 54171),

Gene: Pleione_192 Start: 101498, Stop: 99636, Start Num: 119
Candidate Starts for Pleione_192:
(Start: 119 @101498 has 185 MA's), (Start: 145 @101438 has 1 MA's), (Start: 182 @101369 has 1 MA's), (420, 100997), (443, 100955), (449, 100937), (506, 100853), (518, 100829), (530, 100805), (532, 100802), (555, 100757), (579, 100706), (595, 100676), (601, 100664), (661, 100535), (713, 100442), (717, 100436), (746, 100373), (748, 100367), (811, 100271), (814, 100265), (879, 100154), (921, 100082), (948, 100049), (951, 100040), (1004, 99920), (1010, 99902), (1047, 99803), (1048, 99800), (1058, 99779), (1083, 99725), (1107, 99689),

Gene: Pocket_40 Start: 30843, Stop: 29422, Start Num: 360
Candidate Starts for Pocket_40:
(220, 31065), (Start: 360 @30843 has 155 MA's), (445, 30699), (448, 30693), (449, 30690), (503, 30576), (518, 30549), (551, 30489), (562, 30462), (563, 30459), (611, 30363), (634, 30321), (715, 30159), (721, 30150), (732, 30129), (743, 30102), (763, 30069), (769, 30054), (821, 29979), (836, 29961), (887, 29865), (932, 29802), (966, 29748), (1000, 29664), (1002, 29658), (1007, 29646), (1033, 29571), (1045, 29550), (1068, 29496), (1070, 29493), (1081, 29469),

Gene: PokyPuppy_58 Start: 52764, Stop: 51256, Start Num: 235
Candidate Starts for PokyPuppy_58:
(102, 53043), (121, 52992), (142, 52941), (162, 52893), (165, 52887), (181, 52857), (Start: 194 @52824 has 3 MA's), (201, 52815), (Start: 222 @52788 has 29 MA's), (Start: 235 @52764 has 1 MA's), (Start: 294 @52665 has 29 MA's), (321, 52620), (348, 52578), (380, 52530), (382, 52527), (386, 52521), (Start: 388 @52518 has 1 MA's), (401, 52500), (435, 52452), (510, 52329), (520, 52311), (565, 52224), (572, 52209), (617, 52116), (639, 52089), (668, 52038), (695, 51978), (697, 51975), (726, 51966), (732, 51948), (750, 51906), (780, 51861), (873, 51726), (883, 51711), (894, 51690), (957, 51633), (974, 51606), (999, 51549), (1000, 51543), (1004, 51531), (1020, 51480), (1030, 51456), (1047, 51417), (1052, 51405), (1054, 51402), (1097, 51309), (1107, 51294),

Gene: Poland_64 Start: 54025, Stop: 52493, Start Num: 222
Candidate Starts for Poland_64:
(102, 54280), (121, 54229), (165, 54124), (181, 54094), (Start: 194 @54061 has 3 MA's), (201, 54052), (Start: 222 @54025 has 29 MA's), (321, 53857), (348, 53815), (Start: 360 @53797 has 155 MA's), (380, 53767), (Start: 388 @53755 has 1 MA's), (396, 53743), (401, 53737), (412, 53716), (520, 53548), (565, 53461), (572, 53446), (578, 53434), (591, 53404), (617, 53353), (668, 53275), (679, 53251), (688, 53233), (695, 53215), (697, 53212), (726, 53203), (732, 53185), (750, 53143), (780, 53098), (791, 53080), (873, 52963), (883, 52948), (894, 52927), (972, 52846), (974, 52843), (999, 52786), (1000, 52780), (1004, 52768), (1030, 52693), (1047, 52654), (1052, 52642), (1054, 52639), (1097, 52546), (1107, 52531),

Gene: Polyyuki_72 Start: 53158, Stop: 51122, Start Num: 36
Candidate Starts for Polyyuki_72:
(12, 53326), (Start: 36 @53158 has 6 MA's), (56, 53092), (75, 53050), (Start: 200 @52765 has 9 MA's), (Start: 243 @52708 has 5 MA's), (271, 52657), (281, 52642), (341, 52552), (348, 52540), (409, 52447), (454, 52375), (509, 52306), (543, 52234), (572, 52177), (668, 51997), (679, 51973), (710, 51910),

(731, 51874), (778, 51787), (856, 51655), (888, 51616), (889, 51613), (907, 51568), (989, 51421), (1011, 51358), (1025, 51316), (1041, 51277), (1055, 51253),

Gene: PorkBelly_54 Start: 43266, Stop: 41917, Start Num: 342
Candidate Starts for PorkBelly_54:
(306, 43317), (Start: 342 @43266 has 7 MA's), (370, 43227), (395, 43188), (400, 43182), (421, 43152), (438, 43134), (445, 43116), (450, 43101), (474, 43053), (478, 43041), (508, 42984), (509, 42981), (511, 42978), (613, 42774), (644, 42702), (659, 42678), (685, 42627), (695, 42603), (714, 42585), (727, 42564), (732, 42549), (765, 42480), (772, 42465), (811, 42402), (872, 42300), (876, 42294), (898, 42264), (939, 42210), (954, 42186), (977, 42144), (1028, 42018), (1029, 42015), (1043, 41979),

Gene: PotatoChip_72 Start: 52511, Stop: 50586, Start Num: 65
Candidate Starts for PotatoChip_72:
(33, 52604), (34, 52598), (Start: 65 @52511 has 8 MA's), (134, 52340), (155, 52286), (271, 52082), (375, 51926), (409, 51875), (411, 51872), (442, 51830), (508, 51743), (509, 51740), (543, 51668), (550, 51659), (729, 51308), (731, 51302), (745, 51269), (957, 50930), (992, 50864), (997, 50852), (1002, 50834), (1011, 50807), (1031, 50744), (1050, 50711), (1081, 50639),

Gene: Potatoes_29 Start: 22153, Stop: 23553, Start Num: 333
Candidate Starts for Potatoes_29:
(Start: 333 @22153 has 73 MA's), (381, 22216), (448, 22321), (449, 22324), (484, 22408), (512, 22441), (540, 22492), (544, 22498), (582, 22579), (584, 22582), (588, 22588), (607, 22624), (616, 22642), (617, 22645), (640, 22699), (677, 22750), (730, 22831), (740, 22858), (758, 22888), (763, 22897), (778, 22924), (798, 22957), (804, 22972), (840, 23026), (849, 23047), (857, 23059), (863, 23071), (990, 23293), (994, 23302), (997, 23308), (1009, 23344), (1030, 23404), (1038, 23431), (1084, 23521),

Gene: Potty_40 Start: 25934, Stop: 27841, Start Num: 58
Candidate Starts for Potty_40:
(Start: 58 @25934 has 39 MA's), (83, 25997), (96, 26018), (115, 26072), (202, 26249), (Start: 235 @26294 has 1 MA's), (341, 26468), (348, 26477), (409, 26567), (440, 26624), (539, 26810), (610, 26945), (616, 26957), (639, 26990), (731, 27119), (796, 27236), (856, 27311), (987, 27545), (990, 27548), (1010, 27608), (1044, 27698), (1058, 27728), (1074, 27770), (1102, 27821),

Gene: Poultress_39 Start: 26280, Stop: 28187, Start Num: 58
Candidate Starts for Poultress_39:
(Start: 58 @26280 has 39 MA's), (83, 26343), (96, 26364), (115, 26418), (202, 26595), (Start: 235 @26640 has 1 MA's), (341, 26814), (348, 26823), (409, 26913), (440, 26970), (539, 27156), (610, 27291), (616, 27303), (639, 27336), (731, 27465), (796, 27582), (990, 27894), (1010, 27954), (1044, 28044), (1058, 28074), (1074, 28116), (1102, 28167),

Gene: Prager_53 Start: 39749, Stop: 41692, Start Num: 51
Candidate Starts for Prager_53:
(Start: 51 @39749 has 50 MA's), (66, 39776), (88, 39848), (107, 39902), (140, 39962), (147, 39980), (150, 39989), (177, 40040), (195, 40082), (Start: 222 @40118 has 29 MA's), (271, 40205), (331, 40298), (341, 40313), (354, 40334), (433, 40436), (447, 40469), (458, 40493), (509, 40553), (554, 40640), (587, 40715), (639, 40805), (668, 40856), (669, 40859), (720, 40949), (731, 40967), (745, 41000), (778, 41054), (784, 41066), (796, 41084), (842, 41147), (903, 41231), (969, 41348), (989, 41396), (1011, 41459), (1041, 41543),

Gene: Preamble_25 Start: 20577, Stop: 21971, Start Num: 333
Candidate Starts for Preamble_25:

(Start: 333 @20577 has 73 MA's), (381, 20634), (448, 20739), (449, 20742), (484, 20826), (512, 20859), (542, 20913), (544, 20916), (588, 21006), (607, 21042), (617, 21063), (634, 21096), (640, 21117), (677, 21168), (730, 21249), (740, 21276), (763, 21315), (778, 21342), (798, 21375), (804, 21390), (814, 21399), (840, 21444), (858, 21480), (910, 21561), (926, 21585), (939, 21603), (944, 21615), (975, 21675), (983, 21699), (988, 21705), (989, 21708), (997, 21726), (998, 21729), (1007, 21753), (1009, 21762), (1038, 21849), (1065, 21900), (1084, 21939),

Gene: Predator_60 Start: 44295, Stop: 46307, Start Num: 45
Candidate Starts for Predator_60:
(Start: 45 @44295 has 11 MA's), (Start: 51 @44310 has 50 MA's), (70, 44349), (78, 44379), (81, 44388), (90, 44403), (108, 44457), (111, 44463), (161, 44568), (187, 44619), (195, 44640), (202, 44652), (229, 44721), (Start: 243 @44742 has 5 MA's), (278, 44802), (296, 44826), (309, 44847), (314, 44853), (462, 45093), (466, 45105), (506, 45138), (509, 45144), (561, 45246), (666, 45459), (668, 45462), (689, 45510), (727, 45561), (729, 45567), (731, 45573), (778, 45663), (784, 45675), (871, 45798), (907, 45831), (985, 45975), (993, 45987), (1004, 46020), (1031, 46104), (1041, 46122), (1044, 46125), (1065, 46173), (1092, 46230),

Gene: Primadonna_182 Start: 100063, Stop: 98201, Start Num: 119
Candidate Starts for Primadonna_182:
(Start: 119 @100063 has 185 MA's), (Start: 145 @100003 has 1 MA's), (Start: 182 @99934 has 1 MA's), (420, 99562), (443, 99520), (449, 99502), (506, 99418), (518, 99394), (530, 99370), (532, 99367), (555, 99322), (579, 99271), (595, 99241), (601, 99229), (661, 99100), (713, 99007), (717, 99001), (746, 98938), (748, 98932), (811, 98836), (814, 98830), (879, 98719), (921, 98647), (948, 98614), (951, 98605), (1004, 98485), (1010, 98467), (1047, 98368), (1048, 98365), (1058, 98344), (1083, 98290), (1107, 98254),

Gene: PrincePhergus_39 Start: 30573, Stop: 29191, Start Num: 358
Candidate Starts for PrincePhergus_39:
(338, 30600), (Start: 358 @30573 has 23 MA's), (Start: 362 @30570 has 4 MA's), (384, 30540), (445, 30432), (448, 30426), (449, 30423), (455, 30408), (544, 30231), (551, 30222), (555, 30213), (563, 30192), (583, 30150), (611, 30096), (721, 29883), (732, 29862), (738, 29847), (743, 29835), (750, 29820), (770, 29784), (782, 29775), (809, 29760), (836, 29724), (891, 29625), (932, 29562), (951, 29535), (985, 29460), (989, 29454), (993, 29445), (999, 29430), (1000, 29424), (1002, 29418), (1007, 29406), (1058, 29283), (1061, 29271),

Gene: PrincessTrina_91 Start: 59008, Stop: 60753, Start Num: 159
Candidate Starts for PrincessTrina_91:
(Start: 159 @59008 has 18 MA's), (168, 59029), (205, 59107), (215, 59131), (238, 59176), (251, 59200), (272, 59239), (370, 59398), (375, 59407), (406, 59449), (418, 59470), (441, 59503), (444, 59509), (445, 59512), (450, 59527), (459, 59542), (500, 59629), (508, 59641), (511, 59647), (529, 59683), (542, 59707), (551, 59719), (613, 59851), (652, 59935), (672, 59968), (680, 59983), (682, 59986), (692, 60010), (714, 60034), (718, 60040), (725, 60046), (747, 60103), (779, 60148), (818, 60214), (827, 60226), (835, 60235), (842, 60259), (845, 60262), (864, 60298), (866, 60304), (877, 60328), (928, 60409), (931, 60415), (942, 60433), (960, 60460), (964, 60466), (977, 60496), (978, 60502), (1006, 60562), (1021, 60613), (1024, 60619), (1038, 60658),

Gene: Puhon_190 Start: 101462, Stop: 99600, Start Num: 119
Candidate Starts for Puhon_190:
(Start: 119 @101462 has 185 MA's), (Start: 145 @101402 has 1 MA's), (Start: 182 @101333 has 1 MA's), (420, 100961), (443, 100919), (449, 100901), (506, 100817), (518, 100793), (530, 100769), (532, 100766), (555, 100721), (579, 100670), (595, 100640), (601, 100628), (661, 100499), (713, 100406), (717, 100400), (746, 100337), (748, 100331), (811, 100235), (814, 100229), (879, 100118), (921, 100046), (948, 100013), (951, 100004), (1004, 99884), (1010, 99866), (1047, 99767), (1048,

99764), (1058, 99743), (1083, 99689), (1107, 99653),

Gene: Puissant_59 Start: 45753, Stop: 47810, Start Num: 45
Candidate Starts for Puissant_59:
(Start: 45 @45753 has 11 MA's), (70, 45807), (73, 45816), (106, 45909), (108, 45915), (120, 45942), (183, 46068), (187, 46077), (202, 46110), (206, 46131), (229, 46179), (Start: 243 @46200 has 5 MA's), (296, 46284), (300, 46287), (309, 46305), (314, 46311), (348, 46365), (462, 46551), (466, 46563), (474, 46581), (506, 46596), (509, 46602), (668, 46920), (669, 46923), (689, 46968), (727, 47019), (731, 47031), (778, 47121), (784, 47133), (802, 47166), (819, 47190), (826, 47199), (907, 47289), (926, 47322), (985, 47433), (989, 47436), (990, 47439), (992, 47442), (1010, 47496), (1013, 47505), (1041, 47580), (1055, 47604), (1065, 47631), (1126, 47757),

Gene: Pumancara_25 Start: 20596, Stop: 21993, Start Num: 333
Candidate Starts for Pumancara_25:
(Start: 333 @20596 has 73 MA's), (381, 20656), (441, 20743), (448, 20761), (484, 20848), (486, 20854), (512, 20881), (540, 20932), (544, 20938), (571, 20998), (582, 21019), (588, 21028), (607, 21064), (616, 21082), (617, 21085), (634, 21118), (640, 21139), (651, 21163), (677, 21190), (692, 21217), (730, 21271), (734, 21283), (740, 21298), (753, 21322), (763, 21337), (778, 21364), (798, 21397), (804, 21412), (814, 21421), (842, 21472), (888, 21544), (910, 21583), (926, 21607), (939, 21625), (975, 21697), (983, 21721), (988, 21727), (989, 21730), (997, 21748), (1009, 21784), (1038, 21871), (1059, 21910), (1084, 21961), (1094, 21985), (1096, 21988),

Gene: Pumpernickel_111 Start: 80095, Stop: 78248, Start Num: 64
Candidate Starts for Pumpernickel_111:
(Start: 64 @80095 has 19 MA's), (164, 79855), (166, 79852), (177, 79831), (224, 79780), (288, 79672), (303, 79651), (447, 79489), (545, 79276), (578, 79210), (587, 79189), (591, 79180), (619, 79123), (636, 79102), (647, 79075), (668, 79039), (671, 79030), (677, 79018), (729, 78973), (731, 78967), (745, 78934), (809, 78823), (811, 78820), (848, 78778), (886, 78727), (949, 78607), (965, 78580), (996, 78520), (1045, 78382), (1048, 78376), (1067, 78328), (1096, 78268),

Gene: Pupper_134 Start: 95000, Stop: 93126, Start Num: 119
Candidate Starts for Pupper_134:
(Start: 119 @95000 has 185 MA's), (153, 94928), (184, 94871), (400, 94535), (420, 94508), (458, 94433), (489, 94367), (506, 94355), (508, 94352), (538, 94289), (539, 94286), (551, 94268), (579, 94208), (590, 94187), (691, 93971), (717, 93938), (729, 93917), (746, 93875), (811, 93773), (879, 93656), (921, 93584), (932, 93569), (943, 93560), (948, 93551), (951, 93542), (1004, 93422), (1010, 93404), (1013, 93395), (1015, 93386), (1047, 93305), (1048, 93302), (1128, 93134),

Gene: PuppyEggo_41 Start: 31121, Stop: 29733, Start Num: 360
Candidate Starts for PuppyEggo_41:
(Start: 49 @31772 has 8 MA's), (187, 31418), (220, 31343), (Start: 360 @31121 has 155 MA's), (445, 30977), (448, 30971), (449, 30968), (503, 30854), (518, 30827), (551, 30767), (562, 30740), (563, 30737), (611, 30641), (634, 30599), (721, 30428), (732, 30407), (743, 30380), (769, 30332), (836, 30272), (932, 30113), (966, 30059), (1000, 29975), (1002, 29969), (1007, 29957), (1045, 29861), (1068, 29807), (1070, 29804), (1081, 29780),

Gene: Pupusa_192 Start: 102229, Stop: 100367, Start Num: 119
Candidate Starts for Pupusa_192:
(Start: 119 @102229 has 185 MA's), (Start: 145 @102169 has 1 MA's), (Start: 182 @102100 has 1 MA's), (420, 101728), (443, 101686), (449, 101668), (506, 101584), (518, 101560), (530, 101536), (532, 101533), (555, 101488), (579, 101437), (595, 101407), (601, 101395), (661, 101266), (713, 101173), (717, 101167), (746, 101104), (748, 101098), (811, 101002), (814, 100996), (879, 100885), (921, 100813), (948, 100780), (951, 100771), (1004, 100651), (1010, 100633), (1047, 100534), (1048,

100531), (1058, 100510), (1083, 100456), (1107, 100420),

Gene: PurduePete_188 Start: 101725, Stop: 99863, Start Num: 119
Candidate Starts for PurduePete_188:
(Start: 119 @101725 has 185 MA's), (Start: 145 @101665 has 1 MA's), (Start: 182 @101596 has 1 MA's), (420, 101224), (443, 101182), (449, 101164), (506, 101080), (518, 101056), (530, 101032), (532, 101029), (555, 100984), (579, 100933), (595, 100903), (601, 100891), (661, 100762), (713, 100669), (717, 100663), (746, 100600), (748, 100594), (811, 100498), (814, 100492), (879, 100381), (921, 100309), (948, 100276), (951, 100267), (1004, 100147), (1010, 100129), (1047, 100030), (1048, 100027), (1058, 100006), (1083, 99952), (1107, 99916),

Gene: Pywacket_58 Start: 41409, Stop: 43325, Start Num: 50
Candidate Starts for Pywacket_58:
(Start: 50 @41409 has 13 MA's), (Start: 51 @41412 has 50 MA's), (Start: 58 @41424 has 39 MA's), (75, 41472), (87, 41505), (115, 41574), (158, 41664), (173, 41691), (178, 41700), (Start: 222 @41772 has 29 MA's), (271, 41859), (296, 41892), (335, 41955), (399, 42045), (506, 42201), (518, 42225), (538, 42267), (562, 42315), (572, 42336), (581, 42357), (610, 42414), (638, 42468), (662, 42510), (689, 42570), (745, 42666), (746, 42669), (881, 42846), (918, 42897), (969, 42987), (989, 43023), (992, 43029), (1010, 43083), (1022, 43122), (1066, 43224), (1072, 43239), (1083, 43260),

Gene: QBert_179 Start: 99677, Stop: 97815, Start Num: 119
Candidate Starts for QBert_179:
(Start: 119 @99677 has 185 MA's), (Start: 145 @99617 has 1 MA's), (Start: 182 @99548 has 1 MA's), (420, 99176), (443, 99134), (449, 99116), (506, 99032), (518, 99008), (530, 98984), (532, 98981), (555, 98936), (579, 98885), (595, 98855), (601, 98843), (661, 98714), (713, 98621), (717, 98615), (746, 98552), (748, 98546), (811, 98450), (814, 98444), (879, 98333), (921, 98261), (948, 98228), (951, 98219), (1004, 98099), (1010, 98081), (1047, 97982), (1048, 97979), (1058, 97958), (1083, 97904), (1107, 97868),

Gene: QuadZero_39 Start: 29101, Stop: 27674, Start Num: 360
Candidate Starts for QuadZero_39:
(319, 29158), (Start: 360 @29101 has 155 MA's), (380, 29071), (384, 29065), (448, 28951), (449, 28948), (450, 28945), (562, 28711), (563, 28708), (686, 28453), (717, 28402), (721, 28396), (743, 28348), (763, 28315), (769, 28300), (836, 28201), (862, 28147), (865, 28141), (882, 28114), (932, 28042), (973, 27970), (989, 27934), (993, 27925), (999, 27910), (1000, 27904), (1007, 27886), (1019, 27844), (1048, 27781), (1081, 27709),

Gene: Quantum_123 Start: 82180, Stop: 80537, Start Num: 200
Candidate Starts for Quantum_123:
(Start: 200 @82180 has 9 MA's), (210, 82156), (270, 82048), (353, 81943), (379, 81904), (414, 81853), (457, 81760), (482, 81700), (505, 81676), (507, 81673), (521, 81646), (568, 81553), (643, 81400), (657, 81376), (659, 81373), (674, 81340), (681, 81328), (726, 81256), (761, 81178), (787, 81133), (881, 80986), (907, 80941), (927, 80911), (947, 80881), (952, 80869), (984, 80803), (1019, 80713), (1020, 80710), (1061, 80614), (1065, 80608), (1076, 80581),

Gene: Quartz_40 Start: 30748, Stop: 29336, Start Num: 360
Candidate Starts for Quartz_40:
(Start: 358 @30751 has 23 MA's), (Start: 360 @30748 has 155 MA's), (384, 30718), (Start: 388 @30712 has 1 MA's), (411, 30679), (448, 30604), (450, 30598), (503, 30487), (518, 30460), (544, 30409), (551, 30400), (562, 30373), (563, 30370), (583, 30328), (611, 30274), (686, 30118), (717, 30067), (721, 30061), (732, 30040), (735, 30034), (738, 30025), (743, 30013), (748, 30001), (796, 29923), (836, 29863), (839, 29857), (862, 29809), (887, 29767), (932, 29704), (944, 29692), (957, 29668), (958, 29665), (989, 29596), (993, 29587), (999, 29572), (1000, 29566), (1002, 29560), (1007,

29548), (1048, 29443), (1058, 29425), (1061, 29413), (1083, 29368),

Gene: Quasimodo_191 Start: 101832, Stop: 99970, Start Num: 119
Candidate Starts for Quasimodo_191:
(Start: 119 @101832 has 185 MA's), (Start: 145 @101772 has 1 MA's), (Start: 182 @101703 has 1 MA's), (420, 101331), (443, 101289), (449, 101271), (506, 101187), (518, 101163), (530, 101139), (532, 101136), (555, 101091), (579, 101040), (595, 101010), (601, 100998), (661, 100869), (713, 100776), (717, 100770), (746, 100707), (748, 100701), (811, 100605), (814, 100599), (879, 100488), (921, 100416), (948, 100383), (951, 100374), (1004, 100254), (1010, 100236), (1047, 100137), (1048, 100134), (1058, 100113), (1083, 100059), (1107, 100023),

Gene: RAP15_29 Start: 22157, Stop: 23557, Start Num: 333
Candidate Starts for RAP15_29:
(Start: 333 @22157 has 73 MA's), (381, 22220), (448, 22325), (449, 22328), (484, 22412), (512, 22445), (540, 22496), (544, 22502), (582, 22583), (584, 22586), (588, 22592), (607, 22628), (616, 22646), (617, 22649), (640, 22703), (677, 22754), (730, 22835), (740, 22862), (758, 22892), (763, 22901), (778, 22928), (798, 22961), (804, 22976), (840, 23030), (849, 23051), (857, 23063), (863, 23075), (990, 23297), (994, 23306), (997, 23312), (1009, 23348), (1030, 23408), (1038, 23435), (1084, 23525),

Gene: Raccoon_40 Start: 31223, Stop: 29832, Start Num: 358
Candidate Starts for Raccoon_40:
(275, 31325), (277, 31322), (Start: 279 @31319 has 1 MA's), (Start: 358 @31223 has 23 MA's), (445, 31076), (448, 31070), (449, 31067), (503, 30953), (518, 30926), (551, 30866), (562, 30839), (563, 30836), (611, 30740), (634, 30698), (721, 30527), (732, 30506), (743, 30479), (836, 30371), (887, 30275), (966, 30158), (973, 30140), (1000, 30074), (1002, 30068), (1007, 30056), (1045, 29960), (1068, 29906), (1070, 29903), (1081, 29879), (1098, 29849),

Gene: Racecar_102 Start: 80738, Stop: 82576, Start Num: 60
Candidate Starts for Racecar_102:
(Start: 60 @80738 has 17 MA's), (88, 80819), (123, 80897), (167, 80993), (224, 81053), (Start: 243 @81083 has 5 MA's), (314, 81203), (344, 81254), (446, 81314), (605, 81653), (638, 81710), (647, 81731), (671, 81776), (729, 81833), (731, 81839), (745, 81872), (750, 81884), (757, 81896), (784, 81941), (807, 81980), (852, 82037), (869, 82043), (888, 82076), (925, 82145), (970, 82229), (1018, 82346), (1093, 82520), (1118, 82562),

Gene: Rachella_40 Start: 25937, Stop: 27844, Start Num: 58
Candidate Starts for Rachella_40:
(Start: 58 @25937 has 39 MA's), (83, 26000), (96, 26021), (115, 26075), (202, 26252), (Start: 235 @26297 has 1 MA's), (341, 26471), (348, 26480), (409, 26570), (440, 26627), (539, 26813), (610, 26948), (616, 26960), (639, 26993), (731, 27122), (796, 27239), (856, 27314), (987, 27548), (990, 27551), (1010, 27611), (1044, 27701), (1058, 27731), (1074, 27773), (1102, 27824),

Gene: Rahel_189 Start: 100632, Stop: 98770, Start Num: 119
Candidate Starts for Rahel_189:
(Start: 119 @100632 has 185 MA's), (Start: 145 @100572 has 1 MA's), (Start: 182 @100503 has 1 MA's), (420, 100131), (443, 100089), (449, 100071), (506, 99987), (518, 99963), (530, 99939), (532, 99936), (555, 99891), (579, 99840), (595, 99810), (601, 99798), (661, 99669), (713, 99576), (717, 99570), (746, 99507), (748, 99501), (811, 99405), (814, 99399), (879, 99288), (921, 99216), (948, 99183), (951, 99174), (1004, 99054), (1010, 99036), (1047, 98937), (1048, 98934), (1058, 98913), (1083, 98859), (1107, 98823),

Gene: Ranch_60 Start: 39414, Stop: 41327, Start Num: 51

Candidate Starts for Ranch_60:
(Start: 45 @39399 has 11 MA's), (Start: 50 @39411 has 13 MA's), (Start: 51 @39414 has 50 MA's), (Start: 58 @39426 has 39 MA's), (75, 39474), (87, 39507), (115, 39576), (158, 39666), (173, 39693), (178, 39702), (Start: 222 @39774 has 29 MA's), (296, 39894), (335, 39957), (399, 40047), (418, 40074), (506, 40203), (518, 40227), (538, 40269), (562, 40317), (565, 40323), (572, 40338), (581, 40359), (610, 40416), (638, 40470), (662, 40512), (689, 40572), (745, 40668), (746, 40671), (881, 40848), (918, 40899), (969, 40989), (989, 41025), (992, 41031), (1010, 41085), (1022, 41124), (1066, 41226), (1072, 41241), (1083, 41262),

Gene: Rapheph_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Rapheph_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (715, 30430), (721, 30421), (732, 30400), (738, 30385), (743, 30373), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Raptor_41 Start: 31121, Stop: 29733, Start Num: 360
Candidate Starts for Raptor_41:
(220, 31343), (Start: 360 @31121 has 155 MA's), (445, 30977), (448, 30971), (449, 30968), (503, 30854), (518, 30827), (551, 30767), (562, 30740), (563, 30737), (611, 30641), (634, 30599), (721, 30428), (732, 30407), (738, 30392), (743, 30380), (769, 30332), (836, 30272), (887, 30176), (932, 30113), (966, 30059), (1000, 29975), (1002, 29969), (1007, 29957), (1033, 29882), (1045, 29861), (1068, 29807), (1070, 29804), (1081, 29780),

Gene: Rasovi_33 Start: 23465, Stop: 24892, Start Num: 339
Candidate Starts for Rasovi_33:
(310, 23426), (326, 23447), (Start: 339 @23465 has 21 MA's), (542, 23822), (571, 23885), (599, 23930), (607, 23951), (749, 24218), (778, 24266), (791, 24287), (804, 24314), (824, 24341), (827, 24344), (840, 24371), (842, 24377), (860, 24413), (914, 24491), (926, 24512), (939, 24530), (944, 24542), (988, 24626), (1009, 24683), (1013, 24695), (1026, 24734), (1038, 24770), (1042, 24776),

Gene: RazorC_60 Start: 39561, Stop: 41474, Start Num: 51
Candidate Starts for RazorC_60:
(Start: 50 @39558 has 13 MA's), (Start: 51 @39561 has 50 MA's), (Start: 58 @39573 has 39 MA's), (75, 39621), (87, 39654), (158, 39813), (173, 39840), (178, 39849), (Start: 222 @39921 has 29 MA's), (296, 40041), (335, 40104), (399, 40194), (418, 40221), (506, 40350), (518, 40374), (538, 40416), (543, 40428), (554, 40443), (562, 40464), (572, 40485), (581, 40506), (610, 40563), (618, 40581), (638, 40617), (662, 40659), (689, 40719), (745, 40815), (746, 40818), (881, 40995), (918, 41046), (969, 41136), (989, 41172), (992, 41178), (1010, 41232), (1022, 41271), (1066, 41373), (1072, 41388), (1083, 41409),

Gene: RcigaStruga_29 Start: 22127, Stop: 23518, Start Num: 333
Candidate Starts for RcigaStruga_29:
(Start: 333 @22127 has 73 MA's), (406, 22214), (448, 22286), (449, 22289), (477, 22355), (484, 22373), (486, 22379), (512, 22406), (544, 22463), (582, 22544), (588, 22553), (607, 22589), (616, 22607), (634, 22643), (640, 22664), (646, 22682), (677, 22715), (699, 22754), (730, 22796), (740, 22823), (753, 22847), (773, 22883), (778, 22889), (798, 22922), (804, 22937), (814, 22946), (840, 22991), (857, 23024), (858, 23027), (910, 23108), (934, 23144), (939, 23150), (944, 23162), (988, 23252), (997, 23273), (998, 23276), (1007, 23300), (1009, 23309), (1038, 23396), (1065, 23447), (1084, 23486), (1094, 23510),

Gene: RedRaider_79 Start: 58956, Stop: 56899, Start Num: 35

Candidate Starts for RedRaider_79:
(1, 59529), (6, 59244), (Start: 35 @58956 has 37 MA's), (187, 58581), (202, 58548), (274, 58440), (309, 58389), (345, 58329), (348, 58326), (398, 58254), (409, 58236), (450, 58173), (453, 58167), (520, 58074), (547, 58017), (561, 57993), (618, 57870), (637, 57837), (668, 57774), (731, 57651), (767, 57582), (778, 57564), (842, 57459), (847, 57450), (889, 57390), (907, 57351), (925, 57321), (957, 57264), (989, 57204), (1000, 57174), (1011, 57141), (1036, 57069), (1080, 56976),

Gene: RedWattleHog_62 Start: 61087, Stop: 59231, Start Num: 125
Candidate Starts for RedWattleHog_62:
(Start: 125 @61087 has 3 MA's), (217, 60898), (242, 60847), (406, 60619), (459, 60514), (506, 60451), (534, 60397), (538, 60385), (555, 60355), (595, 60268), (603, 60253), (662, 60136), (671, 60124), (691, 60079), (696, 60067), (713, 60052), (729, 60025), (737, 60004), (847, 59827), (859, 59800), (879, 59773), (963, 59629), (989, 59569), (1010, 59512), (1022, 59473), (1051, 59404), (1087, 59326), (1111, 59287), (1120, 59269), (1124, 59260),

Gene: Redfield_40 Start: 31255, Stop: 29864, Start Num: 358
Candidate Starts for Redfield_40:
(275, 31357), (277, 31354), (Start: 279 @31351 has 1 MA's), (Start: 358 @31255 has 23 MA's), (445, 31108), (448, 31102), (449, 31099), (503, 30985), (518, 30958), (551, 30898), (562, 30871), (563, 30868), (611, 30772), (634, 30730), (721, 30559), (732, 30538), (743, 30511), (836, 30403), (887, 30307), (966, 30190), (973, 30172), (1000, 30106), (1002, 30100), (1007, 30088), (1045, 29992), (1068, 29938), (1070, 29935), (1081, 29911), (1098, 29881),

Gene: ReginaGlobina_100 Start: 80422, Stop: 82278, Start Num: 60
Candidate Starts for ReginaGlobina_100:
(Start: 60 @80422 has 17 MA's), (167, 80695), (Start: 252 @80800 has 13 MA's), (323, 80923), (331, 80935), (336, 80944), (455, 81040), (487, 81115), (518, 81175), (591, 81328), (614, 81373), (647, 81433), (671, 81478), (729, 81535), (731, 81541), (745, 81574), (750, 81586), (757, 81598), (842, 81715), (843, 81718), (888, 81775), (906, 81811), (913, 81823), (925, 81844), (970, 81928), (1011, 82021), (1018, 82045), (1089, 82213), (1092, 82216),

Gene: RemRem_60 Start: 51466, Stop: 49934, Start Num: 222
Candidate Starts for RemRem_60:
(102, 51721), (121, 51670), (142, 51619), (165, 51565), (181, 51535), (Start: 194 @51502 has 3 MA's), (201, 51493), (Start: 222 @51466 has 29 MA's), (321, 51298), (348, 51256), (380, 51208), (Start: 388 @51196 has 1 MA's), (396, 51184), (401, 51178), (412, 51157), (435, 51130), (520, 50989), (565, 50902), (572, 50887), (578, 50875), (591, 50845), (617, 50794), (639, 50767), (668, 50716), (688, 50674), (695, 50656), (697, 50653), (732, 50626), (750, 50584), (780, 50539), (873, 50404), (883, 50389), (894, 50368), (957, 50311), (972, 50287), (974, 50284), (999, 50227), (1000, 50221), (1002, 50215), (1004, 50209), (1020, 50158), (1030, 50134), (1047, 50095), (1052, 50083), (1054, 50080), (1097, 49987), (1107, 49972), (1119, 49951),

Gene: RenegadeRaider_42 Start: 30486, Stop: 29236, Start Num: 445
Candidate Starts for RenegadeRaider_42:
(Start: 257 @30789 has 1 MA's), (282, 30744), (306, 30714), (338, 30660), (Start: 350 @30642 has 2 MA's), (Start: 358 @30630 has 23 MA's), (Start: 362 @30624 has 4 MA's), (384, 30594), (445, 30486), (448, 30480), (449, 30477), (455, 30462), (551, 30276), (555, 30267), (563, 30246), (583, 30204), (611, 30150), (721, 29937), (732, 29916), (738, 29901), (743, 29889), (750, 29874), (770, 29838), (782, 29829), (809, 29814), (836, 29778), (891, 29679), (932, 29616), (951, 29589), (985, 29514), (989, 29508), (993, 29499), (999, 29484), (1000, 29478), (1002, 29472), (1058, 29337), (1061, 29325), (1099, 29250),

Gene: Renzie_41 Start: 31109, Stop: 29721, Start Num: 360

Candidate Starts for Renzie_41:
(220, 31331), (Start: 360 @31109 has 155 MA's), (445, 30965), (448, 30959), (449, 30956), (503, 30842), (518, 30815), (551, 30755), (562, 30728), (563, 30725), (611, 30629), (634, 30587), (721, 30416), (732, 30395), (738, 30380), (743, 30368), (769, 30320), (836, 30260), (887, 30164), (932, 30101), (966, 30047), (1000, 29963), (1002, 29957), (1007, 29945), (1033, 29870), (1045, 29849), (1068, 29795), (1070, 29792), (1081, 29768),

Gene: Reynauld_56 Start: 50676, Stop: 49183, Start Num: 248
Candidate Starts for Reynauld_56:
(Start: 248 @50676 has 4 MA's), (265, 50640), (286, 50607), (Start: 294 @50598 has 29 MA's), (301, 50589), (306, 50580), (310, 50571), (321, 50553), (368, 50493), (380, 50481), (386, 50472), (472, 50325), (517, 50268), (528, 50244), (562, 50181), (617, 50067), (666, 49992), (668, 49989), (679, 49965), (688, 49947), (697, 49926), (737, 49887), (742, 49875), (743, 49872), (870, 49695), (891, 49659), (1004, 49446), (1017, 49404), (1045, 49338), (1074, 49263), (1083, 49248),

Gene: Riduram_59 Start: 39137, Stop: 41050, Start Num: 51
Candidate Starts for Riduram_59:
(Start: 50 @39134 has 13 MA's), (Start: 51 @39137 has 50 MA's), (Start: 58 @39149 has 39 MA's), (75, 39197), (87, 39230), (158, 39389), (173, 39416), (178, 39425), (Start: 222 @39497 has 29 MA's), (296, 39617), (335, 39680), (399, 39770), (418, 39797), (506, 39926), (518, 39950), (538, 39992), (543, 40004), (554, 40019), (562, 40040), (572, 40061), (581, 40082), (610, 40139), (618, 40157), (638, 40193), (662, 40235), (689, 40295), (745, 40391), (746, 40394), (881, 40571), (918, 40622), (969, 40712), (989, 40748), (992, 40754), (1010, 40808), (1022, 40847), (1066, 40949), (1072, 40964), (1083, 40985),

Gene: Rie18_40 Start: 25493, Stop: 27400, Start Num: 58
Candidate Starts for Rie18_40:
(17, 25319), (Start: 58 @25493 has 39 MA's), (83, 25556), (96, 25577), (115, 25631), (193, 25793), (202, 25808), (Start: 235 @25853 has 1 MA's), (341, 26027), (348, 26036), (409, 26126), (411, 26129), (433, 26168), (440, 26183), (520, 26333), (539, 26369), (593, 26477), (610, 26504), (616, 26516), (639, 26549), (731, 26678), (796, 26795), (990, 27107), (1010, 27167), (1044, 27257), (1058, 27287), (1059, 27293), (1074, 27329), (1102, 27380),

Gene: RikSengupta_42 Start: 26725, Stop: 28659, Start Num: 61
Candidate Starts for RikSengupta_42:
(Start: 29 @26629 has 1 MA's), (Start: 57 @26719 has 1 MA's), (Start: 61 @26725 has 6 MA's), (115, 26872), (123, 26890), (202, 27049), (281, 27175), (341, 27265), (348, 27274), (409, 27364), (433, 27406), (446, 27436), (518, 27568), (616, 27754), (625, 27772), (639, 27787), (668, 27844), (727, 27904), (759, 27976), (834, 28093), (848, 28114), (894, 28180), (906, 28210), (950, 28288), (990, 28366), (1010, 28426), (1022, 28465), (1044, 28516), (1054, 28534), (1104, 28642),

Gene: Rings_71 Start: 47461, Stop: 46067, Start Num: 252
Candidate Starts for Rings_71:
(Start: 252 @47461 has 13 MA's), (311, 47392), (363, 47317), (381, 47299), (403, 47269), (447, 47188), (527, 47038), (602, 46894), (622, 46855), (677, 46741), (719, 46690), (743, 46669), (760, 46639), (767, 46624), (773, 46612), (848, 46531), (897, 46483), (915, 46456), (927, 46435), (976, 46351), (1005, 46285), (1084, 46096), (1088, 46084),

Gene: Riovina_26 Start: 21745, Stop: 23139, Start Num: 333
Candidate Starts for Riovina_26:
(Start: 333 @21745 has 73 MA's), (381, 21802), (441, 21889), (448, 21907), (449, 21910), (484, 21994), (512, 22027), (540, 22078), (544, 22084), (571, 22144), (588, 22174), (607, 22210), (616, 22228), (640, 22285), (646, 22303), (651, 22309), (677, 22336), (730, 22417), (740, 22444), (753,

22468), (763, 22483), (778, 22510), (798, 22543), (804, 22558), (888, 22690), (908, 22726), (926, 22753), (934, 22765), (944, 22783), (988, 22873), (990, 22879), (997, 22894), (998, 22897), (1009, 22930), (1030, 22990), (1038, 23017), (1067, 23074), (1084, 23107), (1094, 23131),

Gene: Riparian_68 Start: 47408, Stop: 49168, Start Num: 188
Candidate Starts for Riparian_68:
(Start: 188 @47408 has 10 MA's), (Start: 232 @47477 has 1 MA's), (292, 47573), (300, 47582), (348, 47663), (378, 47708), (506, 47909), (530, 47957), (561, 48017), (565, 48029), (596, 48095), (655, 48218), (668, 48242), (679, 48266), (731, 48470), (745, 48503), (751, 48518), (778, 48557), (780, 48560), (784, 48569), (842, 48638), (933, 48770), (989, 48893), (990, 48896), (1000, 48923), (1010, 48953), (1012, 48959), (1013, 48962), (1018, 48980), (1022, 48992), (1083, 49127), (1098, 49157),

Gene: Riverdale_29 Start: 22087, Stop: 23487, Start Num: 333
Candidate Starts for Riverdale_29:
(Start: 333 @22087 has 73 MA's), (381, 22150), (448, 22255), (449, 22258), (484, 22342), (512, 22375), (540, 22426), (544, 22432), (582, 22513), (584, 22516), (588, 22522), (607, 22558), (616, 22576), (617, 22579), (634, 22612), (640, 22633), (646, 22651), (677, 22684), (730, 22765), (740, 22792), (758, 22822), (763, 22831), (778, 22858), (798, 22891), (804, 22906), (840, 22960), (849, 22981), (857, 22993), (863, 23005), (990, 23227), (994, 23236), (997, 23242), (1009, 23278), (1030, 23338), (1038, 23365), (1084, 23455),

Gene: Riyhil_41 Start: 31124, Stop: 29736, Start Num: 360
Candidate Starts for Riyhil_41:
(220, 31346), (Start: 360 @31124 has 155 MA's), (445, 30980), (448, 30974), (449, 30971), (503, 30857), (518, 30830), (551, 30770), (562, 30743), (563, 30740), (611, 30644), (634, 30602), (721, 30431), (732, 30410), (738, 30395), (743, 30383), (769, 30335), (836, 30275), (887, 30179), (932, 30116), (966, 30062), (1000, 29978), (1002, 29972), (1007, 29960), (1045, 29864), (1068, 29810), (1070, 29807), (1081, 29783),

Gene: Rizal_182 Start: 99459, Stop: 97597, Start Num: 119
Candidate Starts for Rizal_182:
(Start: 119 @99459 has 185 MA's), (Start: 145 @99399 has 1 MA's), (Start: 182 @99330 has 1 MA's), (420, 98958), (443, 98916), (449, 98898), (506, 98814), (518, 98790), (530, 98766), (532, 98763), (555, 98718), (579, 98667), (595, 98637), (601, 98625), (661, 98496), (713, 98403), (717, 98397), (746, 98334), (748, 98328), (811, 98232), (814, 98226), (879, 98115), (921, 98043), (948, 98010), (951, 98001), (1004, 97881), (1010, 97863), (1047, 97764), (1048, 97761), (1058, 97740), (1083, 97686), (1107, 97650),

Gene: RoMag_183 Start: 100943, Stop: 99081, Start Num: 119
Candidate Starts for RoMag_183:
(Start: 119 @100943 has 185 MA's), (Start: 145 @100883 has 1 MA's), (Start: 182 @100814 has 1 MA's), (420, 100442), (443, 100400), (449, 100382), (506, 100298), (518, 100274), (530, 100250), (532, 100247), (555, 100202), (579, 100151), (595, 100121), (601, 100109), (661, 99980), (713, 99887), (717, 99881), (746, 99818), (748, 99812), (811, 99716), (814, 99710), (879, 99599), (921, 99527), (948, 99494), (951, 99485), (1004, 99365), (1010, 99347), (1047, 99248), (1048, 99245), (1058, 99224), (1083, 99170), (1107, 99134),

Gene: Roberts_38 Start: 26376, Stop: 24544, Start Num: 64
Candidate Starts for Roberts_38:
(Start: 64 @26376 has 19 MA's), (Start: 80 @26319 has 2 MA's), (173, 26118), (Start: 252 @25983 has 13 MA's), (331, 25848), (348, 25821), (447, 25764), (453, 25749), (472, 25695), (518, 25599), (521, 25593), (528, 25578), (552, 25533), (572, 25485), (581, 25464), (589, 25446), (616, 25395), (666, 25302), (671, 25290), (731, 25227), (777, 25155), (812, 25095), (842, 25074), (888, 25008),

(900, 24990), (906, 24972), (907, 24969), (927, 24933), (989, 24825), (993, 24816), (1013, 24756), (1030, 24708),

Gene: RobinSparkles_61 Start: 50974, Stop: 49484, Start Num: 243
Candidate Starts for RobinSparkles_61:
(Start: 243 @50974 has 5 MA's), (301, 50881), (306, 50872), (312, 50860), (321, 50845), (336, 50827), (382, 50770), (427, 50698), (428, 50695), (467, 50602), (499, 50569), (517, 50536), (518, 50533), (528, 50512), (565, 50443), (581, 50407), (626, 50320), (668, 50257), (669, 50254), (686, 50224), (738, 50152), (742, 50143), (840, 50020), (842, 50014), (949, 49882), (974, 49840), (994, 49795), (1004, 49765), (1112, 49513),

Gene: Robinson_41 Start: 31112, Stop: 29724, Start Num: 360
Candidate Starts for Robinson_41:
(220, 31334), (Start: 360 @31112 has 155 MA's), (445, 30968), (448, 30962), (449, 30959), (503, 30845), (518, 30818), (551, 30758), (562, 30731), (563, 30728), (611, 30632), (634, 30590), (721, 30419), (732, 30398), (738, 30383), (743, 30371), (769, 30323), (836, 30263), (887, 30167), (932, 30104), (966, 30050), (1000, 29966), (1002, 29960), (1007, 29948), (1045, 29852), (1068, 29798), (1070, 29795), (1081, 29771),

Gene: Rocha_185 Start: 100211, Stop: 98349, Start Num: 119
Candidate Starts for Rocha_185:
(Start: 119 @100211 has 185 MA's), (Start: 145 @100151 has 1 MA's), (Start: 182 @100082 has 1 MA's), (420, 99710), (443, 99668), (449, 99650), (506, 99566), (518, 99542), (530, 99518), (532, 99515), (555, 99470), (579, 99419), (595, 99389), (601, 99377), (661, 99248), (713, 99155), (717, 99149), (746, 99086), (748, 99080), (811, 98984), (814, 98978), (879, 98867), (921, 98795), (948, 98762), (951, 98753), (1004, 98633), (1010, 98615), (1047, 98516), (1048, 98513), (1058, 98492), (1083, 98438), (1107, 98402),

Gene: Rockabye_101 Start: 73971, Stop: 75830, Start Num: 60
Candidate Starts for Rockabye_101:
(Start: 60 @73971 has 17 MA's), (149, 74187), (167, 74229), (170, 74235), (206, 74268), (Start: 243 @74337 has 5 MA's), (Start: 252 @74352 has 13 MA's), (271, 74388), (296, 74427), (344, 74508), (446, 74568), (587, 74871), (647, 74985), (671, 75030), (731, 75093), (745, 75126), (750, 75138), (780, 75186), (791, 75204), (842, 75270), (843, 75273), (852, 75291), (888, 75330), (925, 75399), (933, 75414), (949, 75441), (968, 75477), (970, 75483), (1018, 75600), (1067, 75720), (1092, 75771),

Gene: Rog141_40 Start: 30803, Stop: 29415, Start Num: 360
Candidate Starts for Rog141_40:
(Start: 49 @31454 has 8 MA's), (187, 31100), (220, 31025), (Start: 360 @30803 has 155 MA's), (445, 30659), (448, 30653), (449, 30650), (503, 30536), (518, 30509), (551, 30449), (562, 30422), (563, 30419), (611, 30323), (634, 30281), (721, 30110), (732, 30089), (738, 30074), (769, 30014), (836, 29954), (887, 29858), (932, 29795), (966, 29741), (1000, 29657), (1002, 29651), (1007, 29639), (1045, 29543), (1068, 29489), (1070, 29486), (1081, 29462),

Gene: Roman_81 Start: 50015, Stop: 48492, Start Num: 250
Candidate Starts for Roman_81:
(130, 50276), (Start: 250 @50015 has 29 MA's), (336, 49904), (363, 49865), (375, 49856), (435, 49760), (451, 49718), (459, 49700), (515, 49601), (517, 49598), (547, 49538), (568, 49496), (626, 49373), (640, 49337), (660, 49298), (690, 49232), (713, 49205), (726, 49187), (737, 49157), (766, 49097), (784, 49067), (792, 49055), (795, 49049), (986, 48740), (995, 48722), (1010, 48680), (1012, 48674), (1017, 48656), (1018, 48653),

Gene: Ronan_183 Start: 98861, Stop: 96999, Start Num: 119

Candidate Starts for Ronan_183:
(Start: 119 @98861 has 185 MA's), (Start: 145 @98801 has 1 MA's), (Start: 182 @98732 has 1 MA's), (420, 98360), (443, 98318), (449, 98300), (506, 98216), (518, 98192), (530, 98168), (532, 98165), (555, 98120), (579, 98069), (595, 98039), (601, 98027), (661, 97898), (713, 97805), (717, 97799), (746, 97736), (748, 97730), (811, 97634), (814, 97628), (879, 97517), (921, 97445), (948, 97412), (951, 97403), (1004, 97283), (1010, 97265), (1047, 97166), (1048, 97163), (1058, 97142), (1083, 97088), (1107, 97052),

Gene: Rooney_70 Start: 50294, Stop: 48408, Start Num: 49
Candidate Starts for Rooney_70:
(Start: 49 @50294 has 8 MA's), (Start: 58 @50279 has 39 MA's), (83, 50216), (89, 50207), (137, 50102), (152, 50063), (161, 50039), (202, 49964), (Start: 222 @49940 has 29 MA's), (315, 49781), (341, 49742), (348, 49733), (418, 49625), (470, 49517), (509, 49469), (562, 49364), (586, 49313), (616, 49253), (655, 49187), (666, 49166), (668, 49163), (745, 49058), (748, 49049), (755, 49037), (815, 48938), (918, 48821), (926, 48809), (943, 48782), (990, 48692), (997, 48677), (1013, 48623), (1031, 48566), (1083, 48458), (1092, 48440),

Gene: Rootkit7_33 Start: 23258, Stop: 24685, Start Num: 339
Candidate Starts for Rootkit7_33:
(314, 23216), (Start: 339 @23258 has 21 MA's), (524, 23576), (599, 23723), (607, 23744), (749, 24011), (778, 24059), (791, 24080), (827, 24137), (842, 24170), (860, 24206), (914, 24284), (926, 24305), (973, 24386), (975, 24389), (1009, 24476), (1013, 24488), (1026, 24527), (1038, 24563), (1042, 24569), (1047, 24581), (1078, 24644),

Gene: Roots515_190 Start: 102277, Stop: 100415, Start Num: 119
Candidate Starts for Roots515_190:
(Start: 119 @102277 has 185 MA's), (Start: 145 @102217 has 1 MA's), (Start: 182 @102148 has 1 MA's), (420, 101776), (443, 101734), (449, 101716), (506, 101632), (518, 101608), (530, 101584), (532, 101581), (555, 101536), (579, 101485), (595, 101455), (601, 101443), (661, 101314), (713, 101221), (717, 101215), (746, 101152), (748, 101146), (811, 101050), (814, 101044), (879, 100933), (921, 100861), (948, 100828), (951, 100819), (1004, 100699), (1010, 100681), (1047, 100582), (1048, 100579), (1058, 100558), (1083, 100504), (1107, 100468),

Gene: Rope_66 Start: 47562, Stop: 49322, Start Num: 188
Candidate Starts for Rope_66:
(Start: 188 @47562 has 10 MA's), (Start: 232 @47631 has 1 MA's), (292, 47727), (300, 47736), (348, 47817), (378, 47862), (506, 48063), (530, 48111), (561, 48171), (565, 48183), (596, 48249), (655, 48372), (668, 48396), (679, 48420), (731, 48624), (745, 48657), (751, 48672), (778, 48711), (780, 48714), (784, 48723), (842, 48792), (933, 48924), (989, 49047), (990, 49050), (1000, 49077), (1010, 49107), (1012, 49113), (1013, 49116), (1018, 49134), (1022, 49146), (1083, 49281), (1096, 49308), (1098, 49311),

Gene: RosieMae_40 Start: 30861, Stop: 29473, Start Num: 360
Candidate Starts for RosieMae_40:
(220, 31083), (Start: 360 @30861 has 155 MA's), (445, 30717), (448, 30711), (449, 30708), (495, 30603), (503, 30594), (518, 30567), (551, 30507), (562, 30480), (563, 30477), (611, 30381), (634, 30339), (721, 30168), (732, 30147), (738, 30132), (769, 30072), (836, 30012), (887, 29916), (932, 29853), (966, 29799), (1000, 29715), (1002, 29709), (1007, 29697), (1045, 29601), (1068, 29547), (1070, 29544), (1081, 29520),

Gene: RosiePosie_90 Start: 58873, Stop: 60618, Start Num: 159
Candidate Starts for RosiePosie_90:

(Start: 159 @58873 has 18 MA's), (168, 58894), (205, 58972), (215, 58996), (238, 59041), (251, 59065), (272, 59104), (370, 59263), (375, 59272), (406, 59314), (418, 59335), (441, 59368), (444, 59374), (445, 59377), (450, 59392), (459, 59407), (500, 59494), (508, 59506), (511, 59512), (529, 59548), (542, 59572), (551, 59584), (613, 59716), (652, 59800), (667, 59821), (672, 59833), (680, 59848), (682, 59851), (692, 59875), (714, 59899), (725, 59911), (747, 59968), (779, 60013), (818, 60079), (827, 60091), (835, 60100), (842, 60124), (845, 60127), (864, 60163), (866, 60169), (877, 60193), (928, 60274), (931, 60280), (942, 60298), (960, 60325), (964, 60331), (977, 60361), (978, 60367), (1006, 60427), (1021, 60478), (1024, 60484), (1038, 60523),

Gene: Rota_56 Start: 39801, Stop: 41717, Start Num: 50
Candidate Starts for Rota_56:
(Start: 50 @39801 has 13 MA's), (Start: 51 @39804 has 50 MA's), (Start: 58 @39816 has 39 MA's), (75, 39864), (87, 39897), (115, 39966), (158, 40056), (173, 40083), (178, 40092), (Start: 222 @40164 has 29 MA's), (271, 40251), (293, 40281), (296, 40284), (335, 40347), (399, 40437), (418, 40464), (506, 40593), (518, 40617), (538, 40659), (562, 40707), (572, 40728), (581, 40749), (610, 40806), (638, 40860), (662, 40902), (689, 40962), (745, 41058), (746, 41061), (881, 41238), (918, 41289), (968, 41376), (969, 41379), (989, 41415), (992, 41421), (1010, 41475), (1022, 41514), (1066, 41616), (1072, 41631), (1083, 41652), (1115, 41709),

Gene: RoyalG_59 Start: 52241, Stop: 50709, Start Num: 222
Candidate Starts for RoyalG_59:
(102, 52496), (121, 52445), (165, 52340), (181, 52310), (Start: 194 @52277 has 3 MA's), (201, 52268), (Start: 222 @52241 has 29 MA's), (Start: 294 @52118 has 29 MA's), (321, 52073), (348, 52031), (380, 51983), (382, 51980), (386, 51974), (Start: 388 @51971 has 1 MA's), (401, 51953), (412, 51932), (435, 51905), (510, 51782), (520, 51764), (565, 51677), (572, 51662), (617, 51569), (668, 51491), (679, 51467), (695, 51431), (732, 51401), (750, 51359), (780, 51314), (873, 51179), (883, 51164), (894, 51143), (974, 51059), (999, 51002), (1000, 50996), (1004, 50984), (1020, 50933), (1030, 50909), (1047, 50870), (1052, 50858), (1054, 50855), (1097, 50762), (1107, 50747),

Gene: Rozby_29 Start: 22088, Stop: 23488, Start Num: 333
Candidate Starts for Rozby_29:
(Start: 333 @22088 has 73 MA's), (381, 22151), (448, 22256), (449, 22259), (484, 22343), (512, 22376), (540, 22427), (544, 22433), (582, 22514), (584, 22517), (588, 22523), (607, 22559), (616, 22577), (617, 22580), (634, 22613), (640, 22634), (646, 22652), (677, 22685), (730, 22766), (740, 22793), (758, 22823), (763, 22832), (778, 22859), (798, 22892), (804, 22907), (840, 22961), (849, 22982), (857, 22994), (863, 23006), (990, 23228), (994, 23237), (997, 23243), (1009, 23279), (1030, 23339), (1038, 23366), (1084, 23456),

Gene: Rukungu_63 Start: 41487, Stop: 43400, Start Num: 51
Candidate Starts for Rukungu_63:
(20, 41361), (21, 41370), (24, 41382), (28, 41415), (Start: 50 @41484 has 13 MA's), (Start: 51 @41487 has 50 MA's), (Start: 58 @41499 has 39 MA's), (75, 41547), (87, 41580), (115, 41649), (158, 41739), (173, 41766), (178, 41775), (Start: 222 @41847 has 29 MA's), (271, 41934), (296, 41967), (335, 42030), (399, 42120), (506, 42276), (518, 42300), (538, 42342), (562, 42390), (572, 42411), (581, 42432), (610, 42489), (638, 42543), (662, 42585), (689, 42645), (745, 42741), (746, 42744), (881, 42921), (918, 42972), (969, 43062), (989, 43098), (992, 43104), (1010, 43158), (1022, 43197), (1066, 43299), (1072, 43314), (1083, 43335),

Gene: Rumi_61 Start: 39105, Stop: 41018, Start Num: 51
Candidate Starts for Rumi_61:
(Start: 50 @39102 has 13 MA's), (Start: 51 @39105 has 50 MA's), (Start: 58 @39117 has 39 MA's), (75, 39165), (87, 39198), (158, 39357), (173, 39384), (178, 39393), (Start: 222 @39465 has 29 MA's), (296, 39585), (335, 39648), (399, 39738), (418, 39765), (506, 39894), (518, 39918), (538, 39960),

(543, 39972), (554, 39987), (562, 40008), (572, 40029), (581, 40050), (610, 40107), (618, 40125), (638, 40161), (662, 40203), (689, 40263), (745, 40359), (746, 40362), (881, 40539), (918, 40590), (969, 40680), (989, 40716), (992, 40722), (1010, 40776), (1022, 40815), (1066, 40917), (1072, 40932), (1083, 40953),

Gene: RunningBrook_86 Start: 50790, Stop: 49270, Start Num: 250
Candidate Starts for RunningBrook_86:
(230, 50823), (Start: 250 @50790 has 29 MA's), (281, 50739), (375, 50631), (419, 50565), (449, 50499), (515, 50376), (523, 50361), (552, 50304), (566, 50271), (568, 50268), (598, 50205), (622, 50154), (626, 50145), (631, 50136), (652, 50082), (673, 50043), (681, 50028), (726, 49959), (737, 49929), (767, 49866), (814, 49794), (938, 49608), (995, 49500), (1005, 49470), (1020, 49425), (1040, 49374), (1070, 49311),

Gene: SBlackberry_33 Start: 23236, Stop: 24663, Start Num: 339
Candidate Starts for SBlackberry_33:
(Start: 339 @23236 has 21 MA's), (524, 23554), (542, 23593), (571, 23656), (599, 23701), (607, 23722), (651, 23821), (749, 23989), (778, 24037), (791, 24058), (804, 24085), (824, 24112), (840, 24142), (841, 24145), (842, 24148), (860, 24184), (914, 24262), (963, 24346), (973, 24364), (975, 24367), (1009, 24454), (1013, 24466), (1026, 24505), (1038, 24541), (1042, 24547), (1065, 24592), (1078, 24622),

Gene: SCentae_133 Start: 95151, Stop: 93277, Start Num: 119
Candidate Starts for SCentae_133:
(Start: 119 @95151 has 185 MA's), (153, 95079), (184, 95022), (400, 94686), (420, 94659), (458, 94584), (489, 94518), (506, 94506), (508, 94503), (538, 94440), (539, 94437), (551, 94419), (579, 94359), (590, 94338), (691, 94122), (717, 94089), (729, 94068), (746, 94026), (811, 93924), (879, 93807), (921, 93735), (932, 93720), (943, 93711), (948, 93702), (951, 93693), (1004, 93573), (1010, 93555), (1013, 93546), (1015, 93537), (1047, 93456), (1048, 93453), (1083, 93378), (1128, 93285),

Gene: SJReid_105 Start: 73084, Stop: 74940, Start Num: 60
Candidate Starts for SJReid_105:
(Start: 60 @73084 has 17 MA's), (167, 73342), (170, 73348), (206, 73381), (210, 73390), (Start: 243 @73450 has 5 MA's), (Start: 252 @73465 has 13 MA's), (296, 73540), (314, 73570), (344, 73621), (446, 73681), (587, 73984), (647, 74098), (671, 74143), (729, 74200), (731, 74206), (745, 74239), (750, 74251), (780, 74299), (784, 74308), (791, 74317), (843, 74386), (888, 74443), (925, 74512), (968, 74590), (970, 74596), (1011, 74689), (1018, 74713), (1052, 74794), (1067, 74833), (1092, 74884),

Gene: SJay_41 Start: 31115, Stop: 29727, Start Num: 360
Candidate Starts for SJay_41:
(Start: 49 @31766 has 8 MA's), (187, 31412), (220, 31337), (Start: 360 @31115 has 155 MA's), (445, 30971), (448, 30965), (449, 30962), (503, 30848), (518, 30821), (551, 30761), (562, 30734), (563, 30731), (611, 30635), (634, 30593), (715, 30431), (721, 30422), (732, 30401), (738, 30386), (743, 30374), (769, 30326), (836, 30266), (887, 30170), (932, 30107), (966, 30053), (1000, 29969), (1002, 29963), (1007, 29951), (1033, 29876), (1045, 29855), (1068, 29801), (1070, 29798), (1081, 29774),

Gene: SVoro_184 Start: 101244, Stop: 99382, Start Num: 119
Candidate Starts for SVoro_184:
(Start: 119 @101244 has 185 MA's), (Start: 145 @101184 has 1 MA's), (Start: 182 @101115 has 1 MA's), (420, 100743), (443, 100701), (449, 100683), (506, 100599), (518, 100575), (530, 100551), (532, 100548), (555, 100503), (579, 100452), (595, 100422), (601, 100410), (661, 100281), (713, 100188), (717, 100182), (746, 100119), (748, 100113), (811, 100017), (814, 100011), (879, 99900), (921, 99828), (948, 99795), (951, 99786), (1004, 99666), (1010, 99648), (1047, 99549), (1048, 99546),

(1058, 99525), (1083, 99471), (1107, 99435),

Gene: Sadboi_61 Start: 41296, Stop: 43209, Start Num: 51
Candidate Starts for Sadboi_61:
(Start: 50 @41293 has 13 MA's), (Start: 51 @41296 has 50 MA's), (Start: 58 @41308 has 39 MA's), (75, 41356), (87, 41389), (115, 41458), (158, 41548), (173, 41575), (178, 41584), (Start: 222 @41656 has 29 MA's), (271, 41743), (296, 41776), (335, 41839), (399, 41929), (418, 41956), (506, 42085), (518, 42109), (538, 42151), (562, 42199), (572, 42220), (581, 42241), (610, 42298), (638, 42352), (662, 42394), (689, 42454), (745, 42550), (746, 42553), (881, 42730), (918, 42781), (969, 42871), (989, 42907), (992, 42913), (1010, 42967), (1022, 43006), (1066, 43108), (1072, 43123), (1083, 43144),

Gene: SafetyGuy_40 Start: 25917, Stop: 27824, Start Num: 58
Candidate Starts for SafetyGuy_40:
(Start: 58 @25917 has 39 MA's), (83, 25980), (96, 26001), (115, 26055), (202, 26232), (Start: 235 @26277 has 1 MA's), (341, 26451), (348, 26460), (409, 26550), (440, 26607), (539, 26793), (610, 26928), (616, 26940), (639, 26973), (731, 27102), (796, 27219), (856, 27294), (987, 27528), (990, 27531), (1010, 27591), (1044, 27681), (1058, 27711), (1074, 27753), (1102, 27804),

Gene: Salacia_188 Start: 101038, Stop: 99176, Start Num: 119
Candidate Starts for Salacia_188:
(Start: 119 @101038 has 185 MA's), (Start: 145 @100978 has 1 MA's), (Start: 182 @100909 has 1 MA's), (420, 100537), (443, 100495), (449, 100477), (506, 100393), (518, 100369), (530, 100345), (532, 100342), (555, 100297), (579, 100246), (595, 100216), (601, 100204), (661, 100075), (713, 99982), (717, 99976), (746, 99913), (748, 99907), (811, 99811), (814, 99805), (879, 99694), (921, 99622), (948, 99589), (951, 99580), (1004, 99460), (1010, 99442), (1047, 99343), (1048, 99340), (1058, 99319), (1083, 99265), (1107, 99229),

Gene: Salgado_95 Start: 54910, Stop: 56574, Start Num: 287
Candidate Starts for Salgado_95:
(Start: 287 @54910 has 9 MA's), (325, 54973), (368, 55033), (391, 55069), (423, 55114), (478, 55234), (526, 55327), (537, 55351), (542, 55363), (566, 55417), (588, 55468), (604, 55504), (617, 55531), (631, 55558), (645, 55600), (712, 55717), (748, 55795), (759, 55813), (786, 55864), (804, 55897), (827, 55930), (854, 55987), (868, 56014), (890, 56056), (924, 56113), (939, 56137), (953, 56167), (963, 56185), (975, 56212), (1013, 56314), (1021, 56341), (1026, 56353), (1058, 56422), (1060, 56431), (1073, 56461), (1076, 56467), (1095, 56503), (1105, 56518), (1114, 56533), (1123, 56554),

Gene: Sam12_58 Start: 51466, Stop: 49934, Start Num: 222
Candidate Starts for Sam12_58:
(102, 51721), (121, 51670), (142, 51619), (165, 51565), (181, 51535), (Start: 194 @51502 has 3 MA's), (201, 51493), (Start: 222 @51466 has 29 MA's), (321, 51298), (348, 51256), (380, 51208), (Start: 388 @51196 has 1 MA's), (396, 51184), (401, 51178), (412, 51157), (435, 51130), (520, 50989), (565, 50902), (572, 50887), (578, 50875), (591, 50845), (617, 50794), (639, 50767), (668, 50716), (688, 50674), (695, 50656), (697, 50653), (732, 50626), (750, 50584), (780, 50539), (873, 50404), (883, 50389), (894, 50368), (957, 50311), (972, 50287), (974, 50284), (999, 50227), (1000, 50221), (1002, 50215), (1004, 50209), (1020, 50158), (1030, 50134), (1047, 50095), (1052, 50083), (1054, 50080), (1097, 49987), (1107, 49972), (1119, 49951),

Gene: SamW_45 Start: 36746, Stop: 38122, Start Num: 342
Candidate Starts for SamW_45:
(Start: 342 @36746 has 7 MA's), (391, 36815), (406, 36833), (450, 36926), (476, 36986), (478, 36992), (479, 36995), (539, 37115), (551, 37133), (607, 37250), (678, 37388), (695, 37427), (725, 37460), (727, 37466), (732, 37481), (748, 37520), (788, 37580), (801, 37604), (835, 37640), (872, 37709),

(876, 37715), (939, 37796), (993, 37892), (998, 37904), (1003, 37916), (1021, 37973), (1024, 37979), (1029, 37991), (1039, 38021), (1064, 38072),

Gene: Sampudon_60 Start: 41637, Stop: 43553, Start Num: 50
Candidate Starts for Sampudon_60:
(Start: 50 @41637 has 13 MA's), (Start: 51 @41640 has 50 MA's), (Start: 58 @41652 has 39 MA's), (75, 41700), (115, 41802), (158, 41892), (173, 41919), (178, 41928), (Start: 222 @42000 has 29 MA's), (296, 42120), (335, 42183), (399, 42273), (418, 42300), (506, 42429), (518, 42453), (538, 42495), (562, 42543), (572, 42564), (581, 42585), (610, 42642), (638, 42696), (662, 42738), (689, 42798), (745, 42894), (746, 42897), (881, 43074), (918, 43125), (968, 43212), (969, 43215), (989, 43251), (992, 43257), (1010, 43311), (1022, 43350), (1066, 43452), (1072, 43467), (1083, 43488),

Gene: Sansa_39 Start: 31177, Stop: 29765, Start Num: 360
Candidate Starts for Sansa_39:
(Start: 360 @31177 has 155 MA's), (384, 31147), (Start: 388 @31141 has 1 MA's), (411, 31108), (503, 30916), (518, 30889), (551, 30829), (562, 30802), (563, 30799), (583, 30757), (611, 30703), (634, 30661), (686, 30547), (721, 30490), (732, 30469), (738, 30454), (743, 30442), (748, 30430), (750, 30427), (763, 30409), (809, 30328), (836, 30292), (862, 30238), (887, 30196), (907, 30166), (917, 30151), (923, 30142), (930, 30136), (958, 30094), (989, 30025), (999, 30001), (1000, 29995), (1002, 29989), (1007, 29977), (1048, 29872), (1058, 29854), (1061, 29842), (1083, 29797),

Gene: Sapo_34 Start: 32116, Stop: 30710, Start Num: 346
Candidate Starts for Sapo_34:
(214, 32353), (215, 32350), (275, 32239), (284, 32224), (Start: 346 @32116 has 14 MA's), (400, 32038), (418, 32011), (443, 31981), (444, 31978), (555, 31771), (566, 31738), (678, 31531), (763, 31384), (769, 31369), (852, 31228), (939, 31093), (955, 31063), (957, 31060), (988, 30991), (989, 30988), (998, 30967), (1010, 30931), (1011, 30928), (1042, 30841), (1047, 30829), (1084, 30742),

Gene: Saradis_80 Start: 48976, Stop: 47453, Start Num: 250
Candidate Starts for Saradis_80:
(Start: 250 @48976 has 29 MA's), (336, 48865), (363, 48826), (375, 48817), (435, 48721), (451, 48679), (459, 48661), (482, 48607), (515, 48562), (517, 48559), (568, 48457), (626, 48334), (640, 48298), (660, 48259), (690, 48193), (713, 48166), (726, 48148), (737, 48118), (766, 48058), (784, 48028), (792, 48016), (795, 48010), (986, 47701), (995, 47683), (1010, 47641), (1012, 47635), (1017, 47617), (1018, 47614), (1072, 47488),

Gene: Saratos_40 Start: 30928, Stop: 29516, Start Num: 360
Candidate Starts for Saratos_40:
(Start: 358 @30931 has 23 MA's), (Start: 360 @30928 has 155 MA's), (384, 30898), (Start: 388 @30892 has 1 MA's), (411, 30859), (503, 30667), (518, 30640), (551, 30580), (562, 30553), (563, 30550), (567, 30544), (583, 30508), (595, 30484), (611, 30454), (634, 30412), (686, 30298), (721, 30241), (732, 30220), (738, 30205), (743, 30193), (748, 30181), (750, 30178), (763, 30160), (809, 30079), (836, 30043), (862, 29989), (887, 29947), (907, 29917), (917, 29902), (923, 29893), (930, 29887), (958, 29845), (989, 29776), (999, 29752), (1000, 29746), (1002, 29740), (1007, 29728), (1048, 29623), (1058, 29605), (1061, 29593), (1083, 29548),

Gene: Sarkar_124 Start: 82180, Stop: 80537, Start Num: 200
Candidate Starts for Sarkar_124:
(Start: 200 @82180 has 9 MA's), (210, 82156), (270, 82048), (353, 81943), (379, 81904), (414, 81853), (457, 81760), (482, 81700), (505, 81676), (507, 81673), (521, 81646), (568, 81553), (643, 81400), (657, 81376), (659, 81373), (674, 81340), (681, 81328), (726, 81256), (761, 81178), (787, 81133), (881, 80986), (907, 80941), (927, 80911), (947, 80881), (952, 80869), (984, 80803), (1019, 80713), (1020, 80710), (1061, 80614), (1065, 80608), (1076, 80581),

Gene: SassyC_75 Start: 51233, Stop: 49344, Start Num: 49
Candidate Starts for SassyC_75:
(Start: 49 @51233 has 8 MA's), (83, 51155), (89, 51146), (123, 51062), (137, 51041), (161, 50978), (198, 50909), (202, 50903), (Start: 222 @50879 has 29 MA's), (341, 50681), (398, 50597), (401, 50594), (418, 50564), (433, 50537), (470, 50456), (562, 50303), (586, 50252), (616, 50192), (666, 50105), (668, 50102), (745, 49997), (748, 49988), (755, 49976), (815, 49877), (870, 49838), (926, 49748), (943, 49721), (946, 49715), (990, 49631), (1010, 49571), (1013, 49562), (1017, 49547), (1031, 49505), (1038, 49487), (1066, 49433), (1081, 49400), (1092, 49379), (1102, 49361),

Gene: Satis_124 Start: 82176, Stop: 80533, Start Num: 200
Candidate Starts for Satis_124:
(Start: 200 @82176 has 9 MA's), (210, 82152), (270, 82044), (353, 81939), (379, 81900), (414, 81849), (457, 81756), (482, 81696), (505, 81672), (507, 81669), (521, 81642), (568, 81549), (643, 81396), (657, 81372), (659, 81369), (674, 81336), (681, 81324), (726, 81252), (761, 81174), (787, 81129), (881, 80982), (907, 80937), (927, 80907), (947, 80877), (952, 80865), (984, 80799), (1019, 80709), (1020, 80706), (1061, 80610), (1065, 80604), (1076, 80577),

Gene: Sauce_184 Start: 99852, Stop: 97990, Start Num: 119
Candidate Starts for Sauce_184:
(Start: 119 @99852 has 185 MA's), (Start: 145 @99792 has 1 MA's), (Start: 182 @99723 has 1 MA's), (420, 99351), (443, 99309), (449, 99291), (506, 99207), (518, 99183), (530, 99159), (532, 99156), (555, 99111), (579, 99060), (595, 99030), (601, 99018), (661, 98889), (713, 98796), (717, 98790), (746, 98727), (748, 98721), (811, 98625), (814, 98619), (879, 98508), (921, 98436), (948, 98403), (951, 98394), (1004, 98274), (1010, 98256), (1047, 98157), (1048, 98154), (1058, 98133), (1083, 98079), (1107, 98043),

Gene: Savage2526_29 Start: 22151, Stop: 23551, Start Num: 333
Candidate Starts for Savage2526_29:
(Start: 333 @22151 has 73 MA's), (381, 22214), (448, 22319), (449, 22322), (484, 22406), (512, 22439), (540, 22490), (544, 22496), (582, 22577), (584, 22580), (588, 22586), (607, 22622), (616, 22640), (617, 22643), (640, 22697), (677, 22748), (730, 22829), (740, 22856), (758, 22886), (763, 22895), (778, 22922), (798, 22955), (804, 22970), (840, 23024), (849, 23045), (857, 23057), (863, 23069), (990, 23291), (994, 23300), (997, 23306), (1009, 23342), (1030, 23402), (1038, 23429), (1084, 23519),

Gene: Scavito_91 Start: 58866, Stop: 60611, Start Num: 159
Candidate Starts for Scavito_91:
(Start: 159 @58866 has 18 MA's), (168, 58887), (205, 58965), (215, 58989), (238, 59034), (251, 59058), (272, 59097), (370, 59256), (375, 59265), (406, 59307), (418, 59328), (441, 59361), (444, 59367), (445, 59370), (450, 59385), (459, 59400), (500, 59487), (508, 59499), (511, 59505), (529, 59541), (542, 59565), (551, 59577), (613, 59709), (652, 59793), (667, 59814), (672, 59826), (680, 59841), (682, 59844), (692, 59868), (714, 59892), (725, 59904), (747, 59961), (779, 60006), (818, 60072), (827, 60084), (835, 60093), (842, 60117), (845, 60120), (864, 60156), (866, 60162), (877, 60186), (928, 60267), (931, 60273), (942, 60291), (960, 60318), (964, 60324), (977, 60354), (978, 60360), (1006, 60420), (1021, 60471), (1024, 60477), (1038, 60516),

Gene: Schimmels22_39 Start: 29851, Stop: 28466, Start Num: 357
Candidate Starts for Schimmels22_39:
(Start: 357 @29851 has 5 MA's), (503, 29575), (515, 29554), (562, 29461), (563, 29458), (574, 29437), (583, 29416), (634, 29320), (721, 29149), (733, 29125), (738, 29113), (743, 29101), (748, 29089), (750, 29086), (763, 29068), (769, 29053), (811, 29026), (836, 28993), (847, 28969), (887, 28897), (907, 28867), (932, 28834), (989, 28726), (993, 28717), (999, 28702), (1000, 28696), (1002, 28690),

(1007, 28678), (1045, 28582), (1048, 28573), (1061, 28543), (1081, 28501),

Gene: Schnapsidee_40 Start: 31262, Stop: 29871, Start Num: 358
Candidate Starts for Schnapsidee_40:
(275, 31364), (277, 31361), (Start: 279 @31358 has 1 MA's), (Start: 358 @31262 has 23 MA's), (445, 31115), (448, 31109), (449, 31106), (503, 30992), (518, 30965), (551, 30905), (562, 30878), (563, 30875), (611, 30779), (634, 30737), (721, 30566), (732, 30545), (743, 30518), (836, 30410), (887, 30314), (966, 30197), (973, 30179), (1000, 30113), (1002, 30107), (1007, 30095), (1045, 29999), (1068, 29945), (1070, 29942), (1081, 29918), (1098, 29888),

Gene: Schubert_39 Start: 30441, Stop: 29047, Start Num: 360
Candidate Starts for Schubert_39:
(Start: 360 @30441 has 155 MA's), (445, 30297), (448, 30291), (449, 30288), (450, 30285), (518, 30147), (551, 30087), (563, 30057), (611, 29961), (634, 29919), (684, 29808), (721, 29748), (738, 29712), (743, 29700), (771, 29649), (781, 29643), (836, 29592), (841, 29580), (880, 29508), (887, 29496), (932, 29433), (989, 29325), (999, 29301), (1000, 29295), (1002, 29289), (1007, 29277), (1019, 29235), (1058, 29154), (1061, 29142), (1083, 29097),

Gene: Scissor2024_40 Start: 29498, Stop: 28113, Start Num: 357
Candidate Starts for Scissor2024_40:
(Start: 357 @29498 has 5 MA's), (474, 29285), (503, 29222), (515, 29201), (562, 29108), (563, 29105), (574, 29084), (583, 29063), (634, 28967), (721, 28796), (733, 28772), (738, 28760), (743, 28748), (748, 28736), (750, 28733), (763, 28715), (769, 28700), (811, 28673), (836, 28640), (841, 28628), (847, 28616), (887, 28544), (917, 28499), (932, 28481), (989, 28373), (993, 28364), (999, 28349), (1000, 28343), (1002, 28337), (1045, 28229), (1048, 28220), (1061, 28190), (1081, 28148),

Gene: ScoobyDoobyDoo_172 Start: 95837, Stop: 93951, Start Num: 122
Candidate Starts for ScoobyDoobyDoo_172:
(79, 95951), (Start: 122 @95837 has 2 MA's), (180, 95714), (203, 95663), (208, 95648), (400, 95366), (415, 95339), (420, 95333), (425, 95324), (458, 95252), (503, 95150), (506, 95147), (508, 95144), (515, 95129), (530, 95099), (539, 95078), (595, 94967), (603, 94952), (696, 94748), (712, 94736), (713, 94733), (736, 94709), (745, 94691), (814, 94577), (875, 94475), (886, 94457), (911, 94412), (968, 94322), (975, 94307), (992, 94268), (1010, 94217), (1015, 94199), (1047, 94118), (1058, 94097), (1109, 94001), (1122, 93974), (1125, 93965),

Gene: ScottMcG_182 Start: 99475, Stop: 97613, Start Num: 119
Candidate Starts for ScottMcG_182:
(Start: 119 @99475 has 185 MA's), (Start: 145 @99415 has 1 MA's), (Start: 182 @99346 has 1 MA's), (420, 98974), (443, 98932), (449, 98914), (506, 98830), (518, 98806), (530, 98782), (532, 98779), (555, 98734), (579, 98683), (595, 98653), (601, 98641), (661, 98512), (713, 98419), (717, 98413), (746, 98350), (748, 98344), (811, 98248), (814, 98242), (833, 98218), (879, 98131), (921, 98059), (948, 98026), (951, 98017), (1004, 97897), (1010, 97879), (1047, 97780), (1048, 97777), (1058, 97756), (1083, 97702), (1107, 97666),

Gene: Scuba_82 Start: 56215, Stop: 54161, Start Num: 35
Candidate Starts for Scuba_82:
(7, 56488), (Start: 35 @56215 has 37 MA's), (86, 56062), (96, 56047), (Start: 126 @55966 has 9 MA's), (187, 55843), (Start: 200 @55813 has 9 MA's), (271, 55705), (296, 55672), (328, 55621), (348, 55588), (409, 55498), (Start: 430 @55465 has 1 MA's), (450, 55435), (547, 55279), (572, 55228), (618, 55132), (637, 55099), (653, 55063), (668, 55036), (731, 54913), (767, 54844), (778, 54826), (784, 54814), (889, 54652), (907, 54613), (925, 54583), (933, 54568), (989, 54466), (1011, 54403), (1041, 54322), (1055, 54298), (1080, 54238),

Gene: Scuttle_29 Start: 22156, Stop: 23556, Start Num: 333
Candidate Starts for Scuttle_29:
(Start: 333 @22156 has 73 MA's), (381, 22219), (448, 22324), (449, 22327), (484, 22411), (512, 22444), (540, 22495), (544, 22501), (582, 22582), (584, 22585), (588, 22591), (607, 22627), (616, 22645), (617, 22648), (634, 22681), (640, 22702), (677, 22753), (730, 22834), (740, 22861), (763, 22900), (778, 22927), (798, 22960), (804, 22975), (840, 23029), (849, 23050), (857, 23062), (863, 23074), (939, 23188), (990, 23296), (994, 23305), (997, 23311), (1009, 23347), (1030, 23407), (1038, 23434), (1084, 23524),

Gene: Sebata_189 Start: 101942, Stop: 100080, Start Num: 119
Candidate Starts for Sebata_189:
(Start: 119 @101942 has 185 MA's), (Start: 145 @101882 has 1 MA's), (Start: 182 @101813 has 1 MA's), (420, 101441), (443, 101399), (449, 101381), (506, 101297), (518, 101273), (530, 101249), (532, 101246), (555, 101201), (579, 101150), (595, 101120), (601, 101108), (661, 100979), (713, 100886), (717, 100880), (746, 100817), (748, 100811), (811, 100715), (814, 100709), (879, 100598), (921, 100526), (948, 100493), (951, 100484), (1004, 100364), (1010, 100346), (1047, 100247), (1048, 100244), (1058, 100223), (1083, 100169), (1107, 100133),

Gene: Sedgewig_40 Start: 30801, Stop: 29413, Start Num: 360
Candidate Starts for Sedgewig_40:
(Start: 49 @31452 has 8 MA's), (187, 31098), (220, 31023), (Start: 360 @30801 has 155 MA's), (445, 30657), (448, 30651), (449, 30648), (495, 30543), (503, 30534), (518, 30507), (551, 30447), (562, 30420), (563, 30417), (611, 30321), (634, 30279), (721, 30108), (732, 30087), (738, 30072), (769, 30012), (836, 29952), (887, 29856), (932, 29793), (966, 29739), (1000, 29655), (1002, 29649), (1007, 29637), (1068, 29487), (1070, 29484), (1081, 29460),

Gene: Send513_66 Start: 47939, Stop: 49699, Start Num: 188
Candidate Starts for Send513_66:
(Start: 188 @47939 has 10 MA's), (Start: 232 @48008 has 1 MA's), (292, 48104), (300, 48113), (348, 48194), (378, 48239), (506, 48440), (530, 48488), (561, 48548), (565, 48560), (596, 48626), (655, 48749), (668, 48773), (679, 48797), (731, 49001), (745, 49034), (751, 49049), (778, 49088), (780, 49091), (784, 49100), (842, 49169), (933, 49301), (989, 49424), (990, 49427), (1000, 49454), (1010, 49484), (1012, 49490), (1013, 49493), (1018, 49511), (1022, 49523), (1083, 49658), (1098, 49688),

Gene: Sergei_26 Start: 21732, Stop: 23129, Start Num: 333
Candidate Starts for Sergei_26:
(Start: 333 @21732 has 73 MA's), (381, 21792), (441, 21879), (448, 21897), (449, 21900), (484, 21984), (486, 21990), (512, 22017), (540, 22068), (544, 22074), (566, 22125), (571, 22134), (582, 22155), (588, 22164), (607, 22200), (617, 22221), (634, 22254), (640, 22275), (646, 22293), (651, 22299), (677, 22326), (686, 22338), (692, 22353), (730, 22407), (753, 22458), (758, 22464), (763, 22473), (766, 22479), (778, 22500), (798, 22533), (804, 22548), (814, 22557), (888, 22680), (910, 22719), (926, 22743), (934, 22755), (988, 22863), (990, 22869), (994, 22878), (997, 22884), (1009, 22920), (1038, 23007), (1084, 23097), (1094, 23121),

Gene: Settecandela_95 Start: 73805, Stop: 71901, Start Num: 116
Candidate Starts for Settecandela_95:
(Start: 116 @73805 has 2 MA's), (148, 73739), (157, 73724), (158, 73721), (Start: 182 @73676 has 1 MA's), (189, 73661), (217, 73601), (223, 73586), (266, 73505), (359, 73367), (425, 73271), (441, 73241), (458, 73202), (466, 73181), (515, 73118), (542, 73061), (554, 73043), (568, 73013), (579, 72989), (590, 72968), (595, 72959), (601, 72947), (656, 72821), (691, 72746), (729, 72692), (746, 72650), (748, 72644), (769, 72608), (879, 72431), (888, 72416), (921, 72359), (963, 72287), (976, 72257), (1004, 72188), (1007, 72182), (1022, 72131), (1058, 72050), (1068, 72026), (1070, 72023), (1092, 71978),

Gene: ShaiHulud_41 Start: 31118, Stop: 29730, Start Num: 360
Candidate Starts for ShaiHulud_41:
(Start: 49 @31769 has 8 MA's), (187, 31415), (220, 31340), (Start: 360 @31118 has 155 MA's), (445, 30974), (448, 30968), (449, 30965), (503, 30851), (518, 30824), (551, 30764), (562, 30737), (563, 30734), (611, 30638), (634, 30596), (721, 30425), (732, 30404), (743, 30377), (769, 30329), (836, 30269), (932, 30110), (966, 30056), (1000, 29972), (1002, 29966), (1007, 29954), (1045, 29858), (1068, 29804), (1070, 29801), (1081, 29777),

Gene: ShakeNBake_70 Start: 50183, Stop: 48297, Start Num: 49
Candidate Starts for ShakeNBake_70:
(31, 50243), (Start: 49 @50183 has 8 MA's), (Start: 58 @50168 has 39 MA's), (83, 50105), (89, 50096), (96, 50084), (137, 49991), (161, 49928), (172, 49910), (202, 49853), (Start: 222 @49829 has 29 MA's), (315, 49670), (341, 49631), (348, 49622), (418, 49514), (470, 49406), (538, 49301), (586, 49202), (616, 49142), (666, 49055), (668, 49052), (745, 48947), (748, 48938), (755, 48926), (815, 48827), (870, 48788), (918, 48710), (926, 48698), (943, 48671), (990, 48581), (997, 48566), (1013, 48512), (1031, 48455), (1092, 48329),

Gene: Shamu_41 Start: 31107, Stop: 29695, Start Num: 360
Candidate Starts for Shamu_41:
(Start: 358 @31110 has 23 MA's), (Start: 360 @31107 has 155 MA's), (384, 31077), (Start: 388 @31071 has 1 MA's), (411, 31038), (503, 30846), (518, 30819), (551, 30759), (562, 30732), (563, 30729), (583, 30687), (595, 30663), (611, 30633), (634, 30591), (686, 30477), (721, 30420), (732, 30399), (738, 30384), (743, 30372), (748, 30360), (750, 30357), (763, 30339), (809, 30258), (836, 30222), (862, 30168), (887, 30126), (907, 30096), (923, 30072), (930, 30066), (958, 30024), (989, 29955), (999, 29931), (1000, 29925), (1002, 29919), (1007, 29907), (1045, 29811), (1048, 29802), (1058, 29784), (1061, 29772), (1083, 29727),

Gene: Shee_41 Start: 31111, Stop: 29723, Start Num: 360
Candidate Starts for Shee_41:
(Start: 49 @31762 has 8 MA's), (187, 31408), (220, 31333), (Start: 360 @31111 has 155 MA's), (445, 30967), (448, 30961), (449, 30958), (503, 30844), (518, 30817), (551, 30757), (562, 30730), (563, 30727), (611, 30631), (634, 30589), (715, 30427), (721, 30418), (732, 30397), (738, 30382), (743, 30370), (769, 30322), (836, 30262), (887, 30166), (932, 30103), (966, 30049), (1000, 29965), (1002, 29959), (1007, 29947), (1045, 29851), (1068, 29797), (1070, 29794), (1081, 29770),

Gene: Shelley_57 Start: 52086, Stop: 50674, Start Num: 294
Candidate Starts for Shelley_57:
(102, 52434), (154, 52305), (Start: 194 @52215 has 3 MA's), (Start: 294 @52086 has 29 MA's), (321, 52041), (380, 51951), (382, 51948), (386, 51942), (401, 51921), (444, 51858), (477, 51780), (510, 51750), (520, 51732), (565, 51645), (572, 51630), (591, 51588), (640, 51507), (668, 51459), (688, 51417), (695, 51399), (697, 51396), (732, 51369), (755, 51318), (780, 51282), (810, 51231), (873, 51147), (886, 51126), (999, 50970), (1000, 50964), (1004, 50952), (1052, 50826), (1107, 50712),

Gene: Shelob_189 Start: 102532, Stop: 100670, Start Num: 119
Candidate Starts for Shelob_189:
(Start: 119 @102532 has 185 MA's), (Start: 145 @102472 has 1 MA's), (Start: 182 @102403 has 1 MA's), (420, 102031), (443, 101989), (449, 101971), (506, 101887), (518, 101863), (530, 101839), (532, 101836), (555, 101791), (579, 101740), (595, 101710), (601, 101698), (661, 101569), (713, 101476), (717, 101470), (746, 101407), (748, 101401), (811, 101305), (814, 101299), (879, 101188), (921, 101116), (948, 101083), (951, 101074), (1004, 100954), (1010, 100936), (1047, 100837), (1048, 100834), (1058, 100813), (1083, 100759), (1107, 100723),

Gene: ShiaLabeouf_185 Start: 99843, Stop: 97981, Start Num: 119
Candidate Starts for ShiaLabeouf_185:
(Start: 119 @99843 has 185 MA's), (Start: 145 @99783 has 1 MA's), (Start: 182 @99714 has 1 MA's), (420, 99342), (443, 99300), (449, 99282), (506, 99198), (518, 99174), (530, 99150), (532, 99147), (555, 99102), (579, 99051), (595, 99021), (601, 99009), (661, 98880), (713, 98787), (717, 98781), (746, 98718), (748, 98712), (811, 98616), (814, 98610), (879, 98499), (921, 98427), (948, 98394), (951, 98385), (1004, 98265), (1010, 98247), (1047, 98148), (1048, 98145), (1058, 98124), (1083, 98070), (1107, 98034),

Gene: Shifa_180 Start: 100417, Stop: 98555, Start Num: 119
Candidate Starts for Shifa_180:
(Start: 119 @100417 has 185 MA's), (Start: 145 @100357 has 1 MA's), (Start: 182 @100288 has 1 MA's), (420, 99916), (443, 99874), (449, 99856), (506, 99772), (518, 99748), (530, 99724), (532, 99721), (555, 99676), (579, 99625), (595, 99595), (601, 99583), (661, 99454), (713, 99361), (717, 99355), (746, 99292), (748, 99286), (811, 99190), (814, 99184), (879, 99073), (921, 99001), (948, 98968), (951, 98959), (1004, 98839), (1010, 98821), (1047, 98722), (1048, 98719), (1058, 98698), (1083, 98644), (1107, 98608),

Gene: Shnickers_186 Start: 99805, Stop: 97943, Start Num: 119
Candidate Starts for Shnickers_186:
(Start: 119 @99805 has 185 MA's), (Start: 145 @99745 has 1 MA's), (Start: 182 @99676 has 1 MA's), (420, 99304), (443, 99262), (449, 99244), (506, 99160), (518, 99136), (530, 99112), (532, 99109), (555, 99064), (579, 99013), (595, 98983), (601, 98971), (661, 98842), (713, 98749), (717, 98743), (746, 98680), (748, 98674), (811, 98578), (814, 98572), (879, 98461), (921, 98389), (948, 98356), (951, 98347), (1004, 98227), (1010, 98209), (1047, 98110), (1048, 98107), (1058, 98086), (1083, 98032), (1107, 97996),

Gene: Shrimp_189 Start: 101475, Stop: 99613, Start Num: 119
Candidate Starts for Shrimp_189:
(Start: 119 @101475 has 185 MA's), (Start: 145 @101415 has 1 MA's), (420, 100974), (443, 100932), (449, 100914), (506, 100830), (518, 100806), (530, 100782), (532, 100779), (555, 100734), (579, 100683), (595, 100653), (601, 100641), (661, 100512), (713, 100419), (717, 100413), (746, 100350), (748, 100344), (811, 100248), (814, 100242), (879, 100131), (921, 100059), (948, 100026), (951, 100017), (1004, 99897), (1010, 99879), (1047, 99780), (1048, 99777), (1058, 99756), (1083, 99702), (1107, 99666),

Gene: Shroomer_89 Start: 50030, Stop: 48510, Start Num: 250
Candidate Starts for Shroomer_89:
(230, 50063), (Start: 250 @50030 has 29 MA's), (281, 49979), (375, 49871), (419, 49805), (449, 49739), (515, 49616), (523, 49601), (552, 49544), (566, 49511), (568, 49508), (598, 49445), (622, 49394), (626, 49385), (631, 49376), (634, 49370), (641, 49346), (652, 49322), (673, 49283), (681, 49268), (713, 49217), (726, 49199), (767, 49106), (784, 49079), (814, 49034), (938, 48848), (995, 48740), (1005, 48710), (1020, 48665), (1070, 48551),

Gene: Shrooms_93 Start: 54534, Stop: 56189, Start Num: 287
Candidate Starts for Shrooms_93:
(Start: 287 @54534 has 9 MA's), (325, 54597), (332, 54606), (347, 54627), (389, 54690), (466, 54828), (478, 54858), (526, 54951), (542, 54987), (566, 55041), (588, 55092), (601, 55116), (604, 55128), (617, 55155), (628, 55176), (631, 55182), (645, 55224), (712, 55341), (748, 55419), (759, 55437), (786, 55488), (804, 55521), (827, 55554), (849, 55602), (868, 55638), (890, 55680), (953, 55791), (963, 55809), (975, 55836), (985, 55863), (1021, 55965), (1058, 56046), (1060, 56055), (1061, 56058), (1073, 56085), (1076, 56091), (1095, 56127), (1105, 56142), (1123, 56178),

Gene: Shynx_42 Start: 31327, Stop: 32721, Start Num: 346
Candidate Starts for Shynx_42:
(Start: 346 @31327 has 14 MA's), (Start: 349 @31330 has 3 MA's), (400, 31405), (416, 31429), (443, 31459), (448, 31474), (493, 31564), (525, 31600), (571, 31699), (575, 31708), (613, 31777), (678, 31900), (749, 32035), (766, 32062), (778, 32083), (791, 32104), (827, 32161), (842, 32194), (847, 32203), (870, 32245), (910, 32311), (926, 32335), (939, 32353), (948, 32371), (975, 32425), (988, 32455), (1009, 32512), (1010, 32515), (1026, 32563), (1041, 32602), (1047, 32617), (1082, 32686), (1090, 32704), (1094, 32713),

Gene: Sienna_50 Start: 36692, Stop: 38746, Start Num: 53
Candidate Starts for Sienna_50:
(Start: 53 @36692 has 9 MA's), (67, 36716), (90, 36779), (123, 36863), (Start: 144 @36905 has 3 MA's), (268, 37127), (296, 37163), (345, 37238), (373, 37277), (411, 37319), (423, 37337), (433, 37358), (439, 37370), (466, 37430), (473, 37445), (506, 37463), (543, 37541), (554, 37556), (555, 37559), (572, 37598), (581, 37619), (637, 37721), (668, 37778), (677, 37799), (679, 37802), (686, 37814), (702, 37862), (703, 37868), (708, 37916), (716, 37949), (723, 37973), (728, 37991), (739, 38021), (801, 38144), (819, 38177), (829, 38189), (842, 38204), (871, 38243), (903, 38288), (918, 38315), (967, 38399), (997, 38462), (1010, 38504), (1013, 38513), (1015, 38522), (1031, 38570), (1036, 38579), (1041, 38591), (1050, 38606), (1067, 38648),

Gene: SilentWarrior_40 Start: 25182, Stop: 27089, Start Num: 58
Candidate Starts for SilentWarrior_40:
(17, 25008), (Start: 58 @25182 has 39 MA's), (83, 25245), (96, 25266), (115, 25320), (183, 25455), (202, 25497), (Start: 235 @25542 has 1 MA's), (341, 25716), (348, 25725), (409, 25815), (433, 25857), (440, 25872), (539, 26058), (610, 26193), (616, 26205), (639, 26238), (731, 26367), (796, 26484), (969, 26757), (990, 26796), (1010, 26856), (1044, 26946), (1058, 26976), (1074, 27018), (1102, 27069),

Gene: SilverDipper_191 Start: 100970, Stop: 99108, Start Num: 119
Candidate Starts for SilverDipper_191:
(Start: 119 @100970 has 185 MA's), (Start: 145 @100910 has 1 MA's), (Start: 182 @100841 has 1 MA's), (420, 100469), (443, 100427), (449, 100409), (506, 100325), (518, 100301), (530, 100277), (532, 100274), (555, 100229), (579, 100178), (595, 100148), (601, 100136), (661, 100007), (713, 99914), (717, 99908), (746, 99845), (748, 99839), (811, 99743), (814, 99737), (879, 99626), (921, 99554), (948, 99521), (951, 99512), (1004, 99392), (1010, 99374), (1047, 99275), (1048, 99272), (1058, 99251), (1083, 99197), (1107, 99161),

Gene: Sinatra_40 Start: 30565, Stop: 29183, Start Num: 358
Candidate Starts for Sinatra_40:
(338, 30592), (Start: 358 @30565 has 23 MA's), (Start: 362 @30562 has 4 MA's), (384, 30532), (445, 30424), (448, 30418), (449, 30415), (455, 30400), (551, 30214), (555, 30205), (563, 30184), (583, 30142), (611, 30088), (721, 29875), (732, 29854), (738, 29839), (743, 29827), (750, 29812), (770, 29776), (782, 29767), (809, 29752), (836, 29716), (891, 29617), (932, 29554), (951, 29527), (985, 29452), (989, 29446), (993, 29437), (999, 29422), (1000, 29416), (1002, 29410), (1007, 29398), (1058, 29275), (1061, 29263),

Gene: SirHarley_54 Start: 39905, Stop: 41848, Start Num: 51
Candidate Starts for SirHarley_54:
(32, 39842), (Start: 51 @39905 has 50 MA's), (66, 39932), (88, 40004), (107, 40058), (140, 40118), (150, 40145), (177, 40196), (195, 40238), (Start: 222 @40274 has 29 MA's), (271, 40361), (331, 40454), (341, 40469), (354, 40490), (433, 40592), (447, 40625), (458, 40649), (509, 40709), (554, 40796), (587, 40871), (639, 40961), (668, 41012), (669, 41015), (720, 41105), (731, 41123), (745, 41156), (784, 41222), (796, 41240), (842, 41303), (903, 41387), (969, 41504), (989, 41552), (1011,

41615), (1041, 41699),

Gene: SirVictor_40 Start: 30629, Stop: 29241, Start Num: 362
Candidate Starts for SirVictor_40:
(Start: 358 @30632 has 23 MA's), (Start: 362 @30629 has 4 MA's), (384, 30599), (445, 30491), (449, 30482), (472, 30428), (515, 30347), (551, 30281), (563, 30251), (585, 30206), (611, 30155), (715, 29951), (721, 29942), (738, 29903), (743, 29891), (748, 29879), (750, 29876), (770, 29840), (782, 29831), (809, 29816), (836, 29780), (841, 29768), (847, 29756), (891, 29681), (932, 29621), (989, 29513), (993, 29504), (999, 29489), (1000, 29483), (1002, 29477), (1099, 29255),

Gene: SiwenD96_190 Start: 102200, Stop: 100338, Start Num: 119
Candidate Starts for SiwenD96_190:
(Start: 119 @102200 has 185 MA's), (Start: 145 @102140 has 1 MA's), (Start: 182 @102071 has 1 MA's), (420, 101699), (443, 101657), (449, 101639), (506, 101555), (518, 101531), (530, 101507), (532, 101504), (555, 101459), (579, 101408), (595, 101378), (601, 101366), (661, 101237), (713, 101144), (717, 101138), (746, 101075), (748, 101069), (811, 100973), (814, 100967), (879, 100856), (921, 100784), (948, 100751), (951, 100742), (1004, 100622), (1010, 100604), (1047, 100505), (1048, 100502), (1058, 100481), (1083, 100427), (1107, 100391),

Gene: Sixama_168 Start: 96248, Stop: 94338, Start Num: 59
Candidate Starts for Sixama_168:
(Start: 59 @96248 has 5 MA's), (68, 96227), (69, 96218), (75, 96200), (Start: 93 @96155 has 1 MA's), (98, 96140), (109, 96116), (123, 96086), (164, 95996), (192, 95951), (199, 95939), (229, 95870), (298, 95753), (314, 95726), (453, 95597), (506, 95480), (530, 95432), (565, 95363), (647, 95201), (668, 95165), (671, 95156), (679, 95141), (686, 95129), (731, 95093), (745, 95060), (783, 94985), (791, 94973), (813, 94934), (844, 94883), (933, 94721), (1021, 94526), (1045, 94469), (1062, 94424),

Gene: Skog_196 Start: 124937, Stop: 123042, Start Num: 119
Candidate Starts for Skog_196:
(Start: 119 @124937 has 185 MA's), (184, 124808), (203, 124769), (241, 124688), (400, 124472), (420, 124445), (425, 124436), (458, 124370), (506, 124292), (508, 124289), (538, 124226), (551, 124205), (579, 124145), (590, 124124), (691, 123908), (713, 123881), (717, 123875), (729, 123854), (804, 123719), (811, 123710), (879, 123593), (921, 123521), (943, 123497), (951, 123479), (1004, 123359), (1010, 123341), (1013, 123332), (1031, 123275), (1048, 123239), (1049, 123236),

Gene: Skysand_75 Start: 57318, Stop: 55261, Start Num: 35
Candidate Starts for Skysand_75:
(6, 57606), (10, 57498), (Start: 35 @57318 has 37 MA's), (187, 56943), (274, 56802), (309, 56751), (345, 56691), (348, 56688), (398, 56616), (409, 56598), (450, 56535), (453, 56529), (520, 56436), (538, 56397), (547, 56379), (561, 56355), (618, 56232), (637, 56199), (668, 56136), (731, 56013), (767, 55944), (778, 55926), (842, 55821), (889, 55752), (907, 55713), (920, 55689), (925, 55683), (957, 55626), (989, 55566), (1000, 55536), (1011, 55503), (1080, 55338), (1102, 55296),

Gene: SmallFry_188 Start: 100001, Stop: 98139, Start Num: 119
Candidate Starts for SmallFry_188:
(Start: 119 @100001 has 185 MA's), (Start: 145 @99941 has 1 MA's), (Start: 182 @99872 has 1 MA's), (420, 99500), (443, 99458), (449, 99440), (506, 99356), (518, 99332), (530, 99308), (532, 99305), (555, 99260), (579, 99209), (595, 99179), (601, 99167), (661, 99038), (713, 98945), (717, 98939), (746, 98876), (748, 98870), (811, 98774), (814, 98768), (879, 98657), (921, 98585), (932, 98570), (948, 98552), (951, 98543), (1004, 98423), (1010, 98405), (1047, 98306), (1048, 98303), (1058, 98282), (1083, 98228), (1107, 98192),

Gene: Snakehole_40 Start: 25114, Stop: 27021, Start Num: 58

Candidate Starts for Snakehole_40:
(Start: 58 @25114 has 39 MA's), (83, 25177), (96, 25198), (115, 25252), (202, 25429), (Start: 235 @25474 has 1 MA's), (341, 25648), (348, 25657), (409, 25747), (440, 25804), (539, 25990), (610, 26125), (616, 26137), (639, 26170), (731, 26299), (796, 26416), (987, 26725), (990, 26728), (1010, 26788), (1044, 26878), (1058, 26908), (1074, 26950), (1102, 27001),

Gene: SoilGremlin_42 Start: 31117, Stop: 29729, Start Num: 360
Candidate Starts for SoilGremlin_42:
(220, 31339), (Start: 360 @31117 has 155 MA's), (445, 30973), (448, 30967), (449, 30964), (503, 30850), (518, 30823), (551, 30763), (562, 30736), (563, 30733), (567, 30727), (611, 30637), (634, 30595), (721, 30424), (738, 30388), (743, 30376), (763, 30343), (769, 30328), (836, 30268), (887, 30172), (932, 30109), (966, 30055), (1000, 29971), (1002, 29965), (1007, 29953), (1045, 29857), (1068, 29803), (1070, 29800), (1081, 29776),

Gene: SoilZilla_184 Start: 100860, Stop: 98998, Start Num: 119
Candidate Starts for SoilZilla_184:
(Start: 119 @100860 has 185 MA's), (Start: 145 @100800 has 1 MA's), (Start: 182 @100731 has 1 MA's), (420, 100359), (443, 100317), (449, 100299), (506, 100215), (518, 100191), (530, 100167), (532, 100164), (555, 100119), (579, 100068), (595, 100038), (601, 100026), (661, 99897), (713, 99804), (717, 99798), (746, 99735), (748, 99729), (811, 99633), (814, 99627), (879, 99516), (921, 99444), (948, 99411), (951, 99402), (1004, 99282), (1010, 99264), (1047, 99165), (1048, 99162), (1058, 99141), (1083, 99087), (1107, 99051),

Gene: SolidSnake_43 Start: 31120, Stop: 29732, Start Num: 360
Candidate Starts for SolidSnake_43:
(220, 31342), (Start: 360 @31120 has 155 MA's), (445, 30976), (448, 30970), (449, 30967), (503, 30853), (518, 30826), (551, 30766), (562, 30739), (563, 30736), (567, 30730), (611, 30640), (634, 30598), (721, 30427), (738, 30391), (743, 30379), (763, 30346), (769, 30331), (836, 30271), (887, 30175), (932, 30112), (966, 30058), (1000, 29974), (1002, 29968), (1007, 29956), (1045, 29860), (1068, 29806), (1070, 29803), (1081, 29779),

Gene: Solimine_81 Start: 49872, Stop: 48349, Start Num: 250
Candidate Starts for Solimine_81:
(130, 50133), (146, 50091), (Start: 250 @49872 has 29 MA's), (336, 49761), (363, 49722), (375, 49713), (435, 49617), (451, 49575), (459, 49557), (482, 49503), (515, 49458), (517, 49455), (568, 49353), (626, 49230), (640, 49194), (660, 49155), (690, 49089), (713, 49062), (726, 49044), (737, 49014), (766, 48954), (784, 48924), (792, 48912), (795, 48906), (986, 48597), (995, 48579), (1010, 48537), (1012, 48531), (1017, 48513), (1018, 48510), (1061, 48408), (1072, 48384),

Gene: Sombrero_60 Start: 52033, Stop: 50501, Start Num: 222
Candidate Starts for Sombrero_60:
(102, 52288), (121, 52237), (165, 52132), (181, 52102), (Start: 194 @52069 has 3 MA's), (201, 52060), (Start: 222 @52033 has 29 MA's), (321, 51865), (348, 51823), (380, 51775), (Start: 388 @51763 has 1 MA's), (396, 51751), (401, 51745), (412, 51724), (520, 51556), (565, 51469), (572, 51454), (578, 51442), (591, 51412), (617, 51361), (668, 51283), (679, 51259), (688, 51241), (695, 51223), (697, 51220), (726, 51211), (732, 51193), (780, 51106), (873, 50971), (883, 50956), (894, 50935), (972, 50854), (974, 50851), (999, 50794), (1000, 50788), (1004, 50776), (1020, 50725), (1030, 50701), (1047, 50662), (1052, 50650), (1054, 50647), (1097, 50554), (1107, 50539), (1119, 50518),

Gene: SonOfLevi_41 Start: 30834, Stop: 29413, Start Num: 360
Candidate Starts for SonOfLevi_41:
(220, 31056), (Start: 360 @30834 has 155 MA's), (445, 30690), (448, 30684), (449, 30681), (503, 30567), (518, 30540), (551, 30480), (562, 30453), (563, 30450), (611, 30354), (634, 30312), (715,

30150), (721, 30141), (732, 30120), (743, 30093), (763, 30060), (769, 30045), (821, 29970), (836, 29952), (887, 29856), (932, 29793), (966, 29739), (1000, 29655), (1002, 29649), (1007, 29637), (1033, 29562), (1045, 29541), (1068, 29487), (1070, 29484), (1081, 29460),

Gene: SorJuana_70 Start: 47020, Stop: 45626, Start Num: 252
Candidate Starts for SorJuana_70:
(Start: 252 @47020 has 13 MA's), (311, 46951), (363, 46876), (381, 46858), (403, 46828), (447, 46747), (527, 46597), (602, 46453), (622, 46414), (677, 46300), (719, 46249), (743, 46228), (760, 46198), (767, 46183), (773, 46171), (848, 46090), (897, 46042), (915, 46015), (927, 45994), (976, 45910), (1005, 45844), (1084, 45655), (1088, 45643),

Gene: Soror1_40 Start: 31284, Stop: 29893, Start Num: 267
Candidate Starts for Soror1_40:
(134, 31572), (141, 31551), (Start: 267 @31284 has 6 MA's), (445, 31137), (448, 31131), (449, 31128), (474, 31068), (503, 31014), (518, 30987), (551, 30927), (562, 30900), (563, 30897), (611, 30801), (634, 30759), (721, 30588), (732, 30567), (836, 30432), (887, 30336), (966, 30219), (973, 30201), (1000, 30135), (1002, 30129), (1007, 30117), (1045, 30021), (1068, 29967), (1070, 29964), (1081, 29940), (1098, 29910),

Gene: Sparcetus_42 Start: 26604, Stop: 28538, Start Num: 61
Candidate Starts for Sparcetus_42:
(Start: 29 @26508 has 1 MA's), (Start: 57 @26598 has 1 MA's), (Start: 61 @26604 has 6 MA's), (115, 26751), (123, 26769), (202, 26928), (281, 27054), (341, 27144), (348, 27153), (409, 27243), (446, 27315), (518, 27447), (616, 27633), (625, 27651), (639, 27666), (668, 27723), (727, 27783), (759, 27855), (848, 27993), (894, 28059), (906, 28089), (907, 28092), (950, 28167), (990, 28245), (1010, 28305), (1022, 28344), (1044, 28395), (1054, 28413), (1104, 28521),

Gene: Spec_182 Start: 100192, Stop: 98330, Start Num: 119
Candidate Starts for Spec_182:
(Start: 119 @100192 has 185 MA's), (Start: 145 @100132 has 1 MA's), (Start: 182 @100063 has 1 MA's), (420, 99691), (443, 99649), (449, 99631), (506, 99547), (518, 99523), (530, 99499), (532, 99496), (555, 99451), (579, 99400), (595, 99370), (601, 99358), (661, 99229), (713, 99136), (717, 99130), (746, 99067), (748, 99061), (811, 98965), (814, 98959), (879, 98848), (921, 98776), (948, 98743), (951, 98734), (1004, 98614), (1010, 98596), (1047, 98497), (1048, 98494), (1058, 98473), (1083, 98419), (1107, 98383),

Gene: Specks_192 Start: 102208, Stop: 100346, Start Num: 119
Candidate Starts for Specks_192:
(Start: 119 @102208 has 185 MA's), (Start: 145 @102148 has 1 MA's), (Start: 182 @102079 has 1 MA's), (420, 101707), (443, 101665), (449, 101647), (506, 101563), (518, 101539), (530, 101515), (532, 101512), (555, 101467), (579, 101416), (595, 101386), (601, 101374), (661, 101245), (713, 101152), (717, 101146), (746, 101083), (748, 101077), (811, 100981), (814, 100975), (879, 100864), (921, 100792), (932, 100777), (948, 100759), (951, 100750), (1004, 100630), (1010, 100612), (1047, 100513), (1048, 100510), (1058, 100489), (1083, 100435), (1107, 100399),

Gene: Sprinklers_185 Start: 100079, Stop: 98217, Start Num: 119
Candidate Starts for Sprinklers_185:
(Start: 119 @100079 has 185 MA's), (Start: 145 @100019 has 1 MA's), (Start: 182 @99950 has 1 MA's), (420, 99578), (443, 99536), (449, 99518), (506, 99434), (518, 99410), (530, 99386), (532, 99383), (555, 99338), (579, 99287), (595, 99257), (601, 99245), (661, 99116), (713, 99023), (717, 99017), (746, 98954), (748, 98948), (811, 98852), (814, 98846), (879, 98735), (921, 98663), (948, 98630), (951, 98621), (1004, 98501), (1010, 98483), (1047, 98384), (1048, 98381), (1058, 98360), (1083, 98306), (1107, 98270),

Gene: Spud_184 Start: 100577, Stop: 98715, Start Num: 119
Candidate Starts for Spud_184:
(Start: 119 @100577 has 185 MA's), (Start: 145 @100517 has 1 MA's), (Start: 182 @100448 has 1 MA's), (420, 100076), (443, 100034), (449, 100016), (506, 99932), (518, 99908), (530, 99884), (532, 99881), (555, 99836), (579, 99785), (595, 99755), (601, 99743), (661, 99614), (713, 99521), (717, 99515), (746, 99452), (748, 99446), (811, 99350), (814, 99344), (879, 99233), (921, 99161), (948, 99128), (951, 99119), (1004, 98999), (1010, 98981), (1047, 98882), (1048, 98879), (1058, 98858), (1083, 98804), (1107, 98768),

Gene: Squibbles_58 Start: 52329, Stop: 50797, Start Num: 222
Candidate Starts for Squibbles_58:
(102, 52584), (121, 52533), (142, 52482), (165, 52428), (181, 52398), (Start: 194 @52365 has 3 MA's), (201, 52356), (Start: 222 @52329 has 29 MA's), (321, 52161), (348, 52119), (380, 52071), (Start: 388 @52059 has 1 MA's), (396, 52047), (401, 52041), (412, 52020), (435, 51993), (520, 51852), (565, 51765), (572, 51750), (578, 51738), (591, 51708), (617, 51657), (639, 51630), (668, 51579), (688, 51537), (695, 51519), (697, 51516), (732, 51489), (750, 51447), (780, 51402), (873, 51267), (883, 51252), (894, 51231), (957, 51174), (974, 51147), (999, 51090), (1000, 51084), (1002, 51078), (1004, 51072), (1020, 51021), (1030, 50997), (1047, 50958), (1052, 50946), (1054, 50943), (1097, 50850), (1107, 50835), (1119, 50814),

Gene: Srilaccoli3_54 Start: 49904, Stop: 48411, Start Num: 248
Candidate Starts for Srilaccoli3_54:
(Start: 248 @49904 has 4 MA's), (265, 49868), (286, 49835), (Start: 294 @49826 has 29 MA's), (301, 49817), (306, 49808), (310, 49799), (321, 49781), (368, 49721), (380, 49709), (386, 49700), (472, 49553), (528, 49472), (666, 49220), (668, 49217), (688, 49175), (697, 49154), (737, 49115), (742, 49103), (743, 49100), (762, 49070), (870, 48923), (891, 48887), (1004, 48674), (1017, 48632), (1045, 48566), (1074, 48491), (1083, 48476),

Gene: SrishMeg2525_185 Start: 101258, Stop: 99396, Start Num: 119
Candidate Starts for SrishMeg2525_185:
(Start: 119 @101258 has 185 MA's), (Start: 145 @101198 has 1 MA's), (Start: 182 @101129 has 1 MA's), (420, 100757), (443, 100715), (449, 100697), (506, 100613), (518, 100589), (530, 100565), (532, 100562), (555, 100517), (579, 100466), (595, 100436), (601, 100424), (661, 100295), (713, 100202), (717, 100196), (746, 100133), (748, 100127), (811, 100031), (814, 100025), (879, 99914), (921, 99842), (948, 99809), (951, 99800), (1004, 99680), (1010, 99662), (1047, 99563), (1048, 99560), (1058, 99539), (1083, 99485), (1107, 99449),

Gene: StAB_50 Start: 39824, Stop: 41185, Start Num: 342
Candidate Starts for StAB_50:
(Start: 342 @39824 has 7 MA's), (391, 39893), (406, 39911), (450, 40004), (474, 40058), (476, 40064), (478, 40070), (479, 40073), (539, 40193), (551, 40211), (607, 40328), (678, 40466), (695, 40505), (725, 40538), (727, 40544), (732, 40559), (748, 40598), (788, 40658), (835, 40718), (876, 40793), (939, 40874), (993, 40970), (1021, 41051), (1024, 41057), (1029, 41069), (1039, 41099),

Gene: Stanktossa_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Stanktossa_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (684, 30481), (721, 30421), (738, 30385), (743, 30373), (763, 30340), (769, 30325), (836, 30265), (887, 30169), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: StarStruck_73 Start: 56760, Stop: 54685, Start Num: 35
Candidate Starts for StarStruck_73:
(Start: 35 @56760 has 37 MA's), (75, 56640), (Start: 93 @56595 has 1 MA's), (94, 56592), (Start: 200 @56349 has 9 MA's), (Start: 243 @56292 has 5 MA's), (271, 56241), (309, 56187), (348, 56124), (409, 56034), (411, 56031), (426, 56007), (450, 55971), (547, 55815), (561, 55791), (618, 55668), (668, 55557), (679, 55533), (731, 55434), (755, 55380), (791, 55326), (814, 55284), (842, 55245), (889, 55176), (903, 55143), (925, 55107), (950, 55062), (957, 55050), (989, 54990), (1011, 54927), (1041, 54846), (1080, 54762),

Gene: SteakFry_87 Start: 50087, Stop: 48567, Start Num: 250
Candidate Starts for SteakFry_87:
(230, 50120), (Start: 250 @50087 has 29 MA's), (281, 50036), (375, 49928), (419, 49862), (449, 49796), (513, 49679), (523, 49658), (552, 49601), (566, 49568), (568, 49565), (598, 49502), (622, 49451), (626, 49442), (631, 49433), (634, 49427), (641, 49403), (652, 49379), (673, 49340), (681, 49325), (713, 49274), (726, 49256), (767, 49163), (784, 49136), (814, 49091), (938, 48905), (995, 48797), (1005, 48767), (1020, 48722), (1040, 48671), (1070, 48608),

Gene: StephanieG_185 Start: 101772, Stop: 99910, Start Num: 119
Candidate Starts for StephanieG_185:
(Start: 119 @101772 has 185 MA's), (Start: 145 @101712 has 1 MA's), (Start: 182 @101643 has 1 MA's), (420, 101271), (443, 101229), (449, 101211), (506, 101127), (518, 101103), (530, 101079), (532, 101076), (555, 101031), (579, 100980), (595, 100950), (601, 100938), (661, 100809), (713, 100716), (717, 100710), (746, 100647), (748, 100641), (811, 100545), (814, 100539), (879, 100428), (921, 100356), (948, 100323), (951, 100314), (1004, 100194), (1010, 100176), (1047, 100077), (1048, 100074), (1058, 100053), (1083, 99999), (1107, 99963),

Gene: SteveFrench_58 Start: 52481, Stop: 50949, Start Num: 222
Candidate Starts for SteveFrench_58:
(102, 52736), (121, 52685), (165, 52580), (181, 52550), (Start: 194 @52517 has 3 MA's), (201, 52508), (Start: 222 @52481 has 29 MA's), (Start: 294 @52358 has 29 MA's), (321, 52313), (348, 52271), (380, 52223), (382, 52220), (386, 52214), (Start: 388 @52211 has 1 MA's), (401, 52193), (412, 52172), (435, 52145), (510, 52022), (520, 52004), (565, 51917), (572, 51902), (617, 51809), (668, 51731), (679, 51707), (695, 51671), (732, 51641), (750, 51599), (780, 51554), (873, 51419), (883, 51404), (894, 51383), (974, 51299), (999, 51242), (1000, 51236), (1004, 51224), (1020, 51173), (1030, 51149), (1047, 51110), (1052, 51098), (1054, 51095), (1097, 51002), (1107, 50987),

Gene: StevieWelch_85 Start: 49882, Stop: 48362, Start Num: 250
Candidate Starts for StevieWelch_85:
(230, 49915), (Start: 250 @49882 has 29 MA's), (281, 49831), (375, 49723), (419, 49657), (449, 49591), (515, 49468), (523, 49453), (552, 49396), (566, 49363), (568, 49360), (598, 49297), (622, 49246), (626, 49237), (631, 49228), (634, 49222), (641, 49198), (652, 49174), (673, 49135), (681, 49120), (713, 49069), (726, 49051), (767, 48958), (784, 48931), (814, 48886), (938, 48700), (995, 48592), (1005, 48562), (1020, 48517), (1040, 48466), (1061, 48421), (1070, 48403),

Gene: Stewart25555_92 Start: 77330, Stop: 79183, Start Num: 60
Candidate Starts for Stewart25555_92:
(Start: 60 @77330 has 17 MA's), (167, 77603), (Start: 252 @77708 has 13 MA's), (271, 77744), (290, 77774), (331, 77843), (336, 77852), (367, 77897), (487, 78023), (591, 78236), (614, 78281), (647, 78341), (671, 78386), (731, 78449), (745, 78482), (750, 78494), (757, 78506), (842, 78623), (893, 78692), (925, 78752), (970, 78836), (1004, 78908), (1011, 78929), (1018, 78953), (1089, 79121), (1092, 79124),

Gene: Sticker17_57 Start: 52601, Stop: 51189, Start Num: 294

Candidate Starts for Sticker17_57:
(102, 52949), (154, 52820), (192, 52733), (Start: 194 @52730 has 3 MA's), (Start: 294 @52601 has 29 MA's), (321, 52556), (380, 52466), (382, 52463), (386, 52457), (401, 52436), (444, 52373), (510, 52265), (520, 52247), (565, 52160), (572, 52145), (591, 52103), (640, 52022), (668, 51974), (688, 51932), (695, 51914), (697, 51911), (732, 51884), (755, 51833), (780, 51797), (810, 51746), (873, 51662), (886, 51641), (999, 51485), (1000, 51479), (1004, 51467), (1052, 51341), (1107, 51227),

Gene: Stickynote_71 Start: 52712, Stop: 50787, Start Num: 65
Candidate Starts for Stickynote_71:
(33, 52805), (Start: 65 @52712 has 8 MA's), (134, 52541), (155, 52487), (271, 52283), (375, 52127), (409, 52076), (411, 52073), (442, 52031), (508, 51944), (509, 51941), (543, 51869), (550, 51860), (731, 51503), (745, 51470), (780, 51413), (957, 51131), (992, 51065), (997, 51053), (1002, 51035), (1004, 51029), (1011, 51008), (1031, 50945), (1050, 50912), (1066, 50873),

Gene: Stiles_49 Start: 38782, Stop: 40143, Start Num: 342
Candidate Starts for Stiles_49:
(Start: 342 @38782 has 7 MA's), (395, 38857), (400, 38863), (406, 38869), (450, 38962), (474, 39016), (476, 39022), (478, 39028), (479, 39031), (539, 39151), (551, 39169), (607, 39286), (678, 39424), (695, 39463), (725, 39496), (727, 39502), (732, 39517), (748, 39556), (788, 39616), (876, 39751), (939, 39832), (993, 39928), (1021, 40009), (1024, 40015), (1029, 40027), (1039, 40057),

Gene: StingRay_40 Start: 30819, Stop: 29431, Start Num: 360
Candidate Starts for StingRay_40:
(220, 31041), (Start: 360 @30819 has 155 MA's), (445, 30675), (448, 30669), (449, 30666), (503, 30552), (518, 30525), (551, 30465), (562, 30438), (563, 30435), (611, 30339), (634, 30297), (721, 30126), (732, 30105), (738, 30090), (769, 30030), (814, 29997), (836, 29970), (887, 29874), (932, 29811), (966, 29757), (1000, 29673), (1002, 29667), (1007, 29655), (1045, 29559), (1068, 29505), (1070, 29502), (1081, 29478),

Gene: StirfryIV_40 Start: 30812, Stop: 29424, Start Num: 360
Candidate Starts for StirfryIV_40:
(Start: 49 @31463 has 8 MA's), (187, 31109), (220, 31034), (Start: 360 @30812 has 155 MA's), (445, 30668), (448, 30662), (449, 30659), (503, 30545), (518, 30518), (551, 30458), (562, 30431), (563, 30428), (611, 30332), (634, 30290), (721, 30119), (732, 30098), (738, 30083), (769, 30023), (836, 29963), (887, 29867), (932, 29804), (966, 29750), (1000, 29666), (1002, 29660), (1007, 29648), (1045, 29552), (1068, 29498), (1070, 29495), (1081, 29471),

Gene: Stormageddon_59 Start: 61068, Stop: 59212, Start Num: 125
Candidate Starts for Stormageddon_59:
(Start: 125 @61068 has 3 MA's), (217, 60879), (242, 60828), (406, 60600), (459, 60495), (506, 60432), (534, 60378), (538, 60366), (555, 60336), (595, 60249), (603, 60234), (662, 60117), (671, 60105), (691, 60060), (696, 60048), (713, 60033), (729, 60006), (737, 59985), (847, 59808), (859, 59781), (879, 59754), (963, 59610), (989, 59550), (1010, 59493), (1022, 59454), (1051, 59385), (1087, 59307), (1111, 59268), (1120, 59250), (1124, 59241),

Gene: Stormbreaker8_40 Start: 31269, Stop: 29878, Start Num: 267
Candidate Starts for Stormbreaker8_40:
(134, 31557), (141, 31536), (Start: 267 @31269 has 6 MA's), (445, 31122), (448, 31116), (449, 31113), (474, 31053), (503, 30999), (518, 30972), (551, 30912), (562, 30885), (563, 30882), (611, 30786), (634, 30744), (721, 30573), (732, 30552), (836, 30417), (887, 30321), (966, 30204), (973, 30186), (1000, 30120), (1002, 30114), (1007, 30102), (1045, 30006), (1068, 29952), (1070, 29949), (1081, 29925), (1098, 29895),

Gene: Stormer_60 Start: 39109, Stop: 41022, Start Num: 51
Candidate Starts for Stormer_60:
(Start: 50 @39106 has 13 MA's), (Start: 51 @39109 has 50 MA's), (Start: 58 @39121 has 39 MA's), (75, 39169), (87, 39202), (158, 39361), (173, 39388), (178, 39397), (Start: 222 @39469 has 29 MA's), (296, 39589), (335, 39652), (399, 39742), (418, 39769), (506, 39898), (518, 39922), (538, 39964), (543, 39976), (554, 39991), (562, 40012), (572, 40033), (581, 40054), (610, 40111), (618, 40129), (638, 40165), (662, 40207), (689, 40267), (745, 40363), (746, 40366), (881, 40543), (918, 40594), (969, 40684), (989, 40720), (992, 40726), (1010, 40780), (1022, 40819), (1066, 40921), (1072, 40936), (1083, 40957),

Gene: Strathdee_41 Start: 31119, Stop: 29731, Start Num: 360
Candidate Starts for Strathdee_41:
(Start: 49 @31770 has 8 MA's), (187, 31416), (220, 31341), (Start: 360 @31119 has 155 MA's), (445, 30975), (448, 30969), (449, 30966), (503, 30852), (518, 30825), (551, 30765), (562, 30738), (563, 30735), (611, 30639), (634, 30597), (721, 30426), (732, 30405), (743, 30378), (769, 30330), (836, 30270), (932, 30111), (966, 30057), (1000, 29973), (1002, 29967), (1007, 29955), (1045, 29859), (1068, 29805), (1070, 29802), (1081, 29778),

Gene: StubbySaigey_192 Start: 100504, Stop: 98642, Start Num: 119
Candidate Starts for StubbySaigey_192:
(Start: 119 @100504 has 185 MA's), (Start: 145 @100444 has 1 MA's), (Start: 182 @100375 has 1 MA's), (420, 100003), (443, 99961), (449, 99943), (506, 99859), (518, 99835), (530, 99811), (532, 99808), (555, 99763), (579, 99712), (595, 99682), (601, 99670), (661, 99541), (713, 99448), (717, 99442), (746, 99379), (748, 99373), (811, 99277), (814, 99271), (879, 99160), (921, 99088), (948, 99055), (951, 99046), (1004, 98926), (1010, 98908), (1047, 98809), (1048, 98806), (1058, 98785), (1083, 98731), (1107, 98695),

Gene: Studio_40 Start: 27739, Stop: 25907, Start Num: 64
Candidate Starts for Studio_40:
(Start: 64 @27739 has 19 MA's), (Start: 80 @27682 has 2 MA's), (173, 27481), (Start: 252 @27346 has 13 MA's), (331, 27211), (348, 27184), (447, 27127), (453, 27112), (472, 27058), (518, 26962), (521, 26956), (528, 26941), (563, 26866), (572, 26848), (581, 26827), (589, 26809), (666, 26665), (671, 26653), (731, 26590), (777, 26518), (812, 26458), (842, 26437), (888, 26371), (893, 26362), (900, 26353), (906, 26335), (907, 26332), (927, 26296), (989, 26188), (993, 26179), (1004, 26146), (1013, 26119), (1030, 26071),

Gene: Stuff_42 Start: 31323, Stop: 32717, Start Num: 346
Candidate Starts for Stuff_42:
(Start: 346 @31323 has 14 MA's), (Start: 349 @31326 has 3 MA's), (400, 31401), (416, 31425), (421, 31431), (443, 31455), (448, 31470), (449, 31473), (450, 31476), (481, 31545), (493, 31560), (525, 31596), (571, 31695), (582, 31716), (613, 31773), (678, 31896), (749, 32031), (766, 32058), (778, 32079), (827, 32157), (842, 32190), (847, 32199), (870, 32241), (910, 32307), (926, 32331), (939, 32349), (948, 32367), (975, 32421), (988, 32451), (1009, 32508), (1010, 32511), (1026, 32559), (1041, 32598), (1047, 32613), (1082, 32682), (1090, 32700), (1094, 32709),

Gene: Substance289_185 Start: 99947, Stop: 98085, Start Num: 119
Candidate Starts for Substance289_185:
(Start: 119 @99947 has 185 MA's), (Start: 145 @99887 has 1 MA's), (Start: 182 @99818 has 1 MA's), (420, 99446), (443, 99404), (449, 99386), (506, 99302), (518, 99278), (530, 99254), (532, 99251), (555, 99206), (579, 99155), (595, 99125), (601, 99113), (661, 98984), (713, 98891), (717, 98885), (746, 98822), (748, 98816), (811, 98720), (814, 98714), (879, 98603), (921, 98531), (948, 98498), (951, 98489), (1004, 98369), (1010, 98351), (1047, 98252), (1048, 98249), (1058, 98228), (1083, 98174), (1107, 98138),

Gene: Sucha_30 Start: 20665, Stop: 22092, Start Num: 339
Candidate Starts for Sucha_30:
(320, 20644), (Start: 339 @20665 has 21 MA's), (540, 21019), (542, 21022), (555, 21043), (599, 21130), (617, 21172), (769, 21454), (778, 21466), (791, 21487), (804, 21514), (824, 21541), (827, 21544), (840, 21571), (842, 21577), (860, 21613), (926, 21712), (963, 21775), (975, 21796), (998, 21850), (1009, 21883), (1013, 21895), (1026, 21934), (1038, 21970), (1042, 21976), (1047, 21988), (1065, 22021), (1078, 22051),

Gene: Sukkupi_71 Start: 54175, Stop: 52319, Start Num: 112
Candidate Starts for Sukkupi_71:
(9, 54592), (11, 54574), (18, 54499), (Start: 35 @54400 has 37 MA's), (Start: 112 @54175 has 3 MA's), (271, 53881), (296, 53848), (309, 53827), (343, 53773), (345, 53767), (348, 53764), (409, 53674), (411, 53671), (450, 53611), (547, 53455), (618, 53308), (668, 53200), (679, 53176), (731, 53074), (755, 53020), (767, 53005), (814, 52924), (842, 52885), (886, 52822), (903, 52783), (907, 52777), (925, 52747), (989, 52630), (1011, 52567), (1031, 52504), (1041, 52486), (1080, 52402),

Gene: SuperSonics_76 Start: 49055, Stop: 51088, Start Num: 47
Candidate Starts for SuperSonics_76:
(26, 48965), (Start: 47 @49055 has 4 MA's), (63, 49079), (82, 49142), (108, 49208), (139, 49262), (187, 49370), (202, 49403), (229, 49442), (246, 49466), (281, 49529), (296, 49547), (300, 49550), (309, 49568), (314, 49574), (Start: 358 @49643 has 23 MA's), (376, 49670), (384, 49682), (410, 49715), (462, 49817), (543, 49940), (561, 49970), (610, 50075), (618, 50093), (666, 50183), (668, 50186), (705, 50288), (716, 50327), (727, 50354), (731, 50366), (751, 50414), (763, 50432), (778, 50459), (784, 50471), (791, 50480), (907, 50618), (933, 50663), (985, 50768), (1031, 50897), (1050, 50930), (1058, 50948), (1081, 51002), (1102, 51041),

Gene: SuperSulley_74 Start: 57198, Stop: 55111, Start Num: 35
Candidate Starts for SuperSulley_74:
(Start: 35 @57198 has 37 MA's), (75, 57078), (Start: 93 @57033 has 1 MA's), (94, 57030), (Start: 200 @56775 has 9 MA's), (271, 56667), (309, 56613), (348, 56550), (409, 56460), (411, 56457), (426, 56433), (450, 56397), (538, 56259), (547, 56241), (554, 56232), (561, 56217), (618, 56094), (653, 56010), (668, 55983), (679, 55959), (731, 55860), (755, 55806), (791, 55752), (814, 55710), (842, 55671), (889, 55602), (903, 55569), (925, 55533), (950, 55488), (957, 55476), (989, 55416), (992, 55410), (1011, 55353), (1080, 55188), (1092, 55164),

Gene: Superfresh_41 Start: 31109, Stop: 29721, Start Num: 360
Candidate Starts for Superfresh_41:
(220, 31331), (Start: 360 @31109 has 155 MA's), (445, 30965), (448, 30959), (449, 30956), (503, 30842), (518, 30815), (551, 30755), (562, 30728), (563, 30725), (611, 30629), (634, 30587), (721, 30416), (732, 30395), (738, 30380), (743, 30368), (769, 30320), (836, 30260), (887, 30164), (932, 30101), (966, 30047), (1000, 29963), (1002, 29957), (1007, 29945), (1033, 29870), (1045, 29849), (1068, 29795), (1070, 29792), (1081, 29768),

Gene: SuperheroCarly_53 Start: 39596, Stop: 41566, Start Num: 42
Candidate Starts for SuperheroCarly_53:
(Start: 42 @39596 has 2 MA's), (46, 39611), (Start: 51 @39623 has 50 MA's), (66, 39650), (88, 39722), (107, 39776), (140, 39836), (150, 39863), (177, 39914), (195, 39956), (Start: 222 @39992 has 29 MA's), (271, 40079), (331, 40172), (341, 40187), (354, 40208), (433, 40310), (447, 40343), (458, 40367), (509, 40427), (554, 40514), (587, 40589), (639, 40679), (668, 40730), (669, 40733), (720, 40823), (731, 40841), (745, 40874), (778, 40928), (784, 40940), (796, 40958), (842, 41021), (903, 41105), (969, 41222), (989, 41270), (1011, 41333), (1041, 41417),

Gene: Suppi_29 Start: 22165, Stop: 23559, Start Num: 333
Candidate Starts for Suppi_29:
(Start: 333 @22165 has 73 MA's), (381, 22222), (448, 22327), (484, 22414), (540, 22498), (542, 22501), (544, 22504), (588, 22594), (607, 22630), (612, 22639), (616, 22648), (640, 22705), (646, 22723), (677, 22756), (686, 22768), (730, 22837), (740, 22864), (753, 22888), (778, 22930), (798, 22963), (804, 22978), (814, 22987), (863, 23077), (908, 23146), (926, 23173), (939, 23191), (944, 23203), (988, 23293), (990, 23299), (994, 23308), (997, 23314), (1009, 23350), (1038, 23437), (1065, 23488), (1084, 23527), (1094, 23551),

Gene: Suzy_49 Start: 37573, Stop: 39624, Start Num: 53
Candidate Starts for Suzy_49:
(Start: 53 @37573 has 9 MA's), (90, 37660), (111, 37720), (123, 37744), (Start: 144 @37786 has 3 MA's), (268, 38008), (296, 38044), (411, 38200), (423, 38218), (433, 38239), (439, 38251), (466, 38311), (473, 38326), (506, 38344), (543, 38422), (554, 38437), (555, 38440), (572, 38479), (581, 38500), (668, 38659), (677, 38680), (679, 38683), (686, 38695), (702, 38743), (703, 38749), (704, 38755), (716, 38830), (728, 38872), (739, 38902), (801, 39025), (819, 39058), (829, 39070), (871, 39124), (918, 39196), (925, 39205), (967, 39280), (993, 39334), (1010, 39385), (1015, 39403), (1031, 39451), (1036, 39460), (1041, 39472), (1050, 39487), (1067, 39529), (1081, 39559),

Gene: Symere_40 Start: 30799, Stop: 29411, Start Num: 360
Candidate Starts for Symere_40:
(Start: 49 @31450 has 8 MA's), (187, 31096), (220, 31021), (Start: 360 @30799 has 155 MA's), (445, 30655), (448, 30649), (449, 30646), (495, 30541), (503, 30532), (518, 30505), (551, 30445), (562, 30418), (563, 30415), (611, 30319), (634, 30277), (721, 30106), (732, 30085), (738, 30070), (769, 30010), (836, 29950), (887, 29854), (932, 29791), (966, 29737), (1000, 29653), (1002, 29647), (1007, 29635), (1068, 29485), (1070, 29482), (1081, 29458),

Gene: TMaxx_39 Start: 26999, Stop: 25191, Start Num: 64
Candidate Starts for TMaxx_39:
(Start: 44 @27044 has 1 MA's), (Start: 64 @26999 has 19 MA's), (Start: 80 @26939 has 2 MA's), (109, 26876), (173, 26738), (Start: 252 @26609 has 13 MA's), (303, 26525), (447, 26387), (528, 26201), (572, 26108), (581, 26087), (671, 25916), (679, 25901), (731, 25853), (790, 25784), (794, 25778), (800, 25763), (842, 25724), (847, 25715), (886, 25661), (888, 25658), (900, 25640), (906, 25622), (993, 25466), (1004, 25433), (1013, 25406), (1019, 25385), (1067, 25268), (1092, 25217),

Gene: Tainan_189 Start: 101329, Stop: 99467, Start Num: 119
Candidate Starts for Tainan_189:
(Start: 119 @101329 has 185 MA's), (Start: 145 @101269 has 1 MA's), (Start: 182 @101200 has 1 MA's), (420, 100828), (443, 100786), (449, 100768), (506, 100684), (518, 100660), (530, 100636), (532, 100633), (555, 100588), (579, 100537), (595, 100507), (601, 100495), (661, 100366), (713, 100273), (717, 100267), (746, 100204), (748, 100198), (811, 100102), (814, 100096), (879, 99985), (921, 99913), (948, 99880), (951, 99871), (1004, 99751), (1010, 99733), (1047, 99634), (1048, 99631), (1058, 99610), (1083, 99556), (1107, 99520),

Gene: Talia1610_101 Start: 80103, Stop: 81941, Start Num: 60
Candidate Starts for Talia1610_101:
(Start: 60 @80103 has 17 MA's), (88, 80184), (123, 80262), (167, 80358), (224, 80418), (Start: 243 @80448 has 5 MA's), (314, 80568), (344, 80619), (446, 80679), (605, 81018), (638, 81075), (647, 81096), (671, 81141), (729, 81198), (731, 81204), (745, 81237), (750, 81249), (757, 81261), (784, 81306), (807, 81345), (852, 81402), (869, 81408), (888, 81441), (925, 81510), (970, 81594), (1018, 81711), (1093, 81885), (1118, 81927),

Gene: Talos_127 Start: 67581, Stop: 69077, Start Num: 305

Candidate Starts for Talos_127:
(Start: 247 @67509 has 1 MA's), (271, 67554), (Start: 305 @67581 has 1 MA's), (307, 67587), (323, 67611), (372, 67677), (Start: 430 @67758 has 1 MA's), (458, 67824), (490, 67881), (508, 67890), (513, 67899), (538, 67953), (573, 68028), (620, 68130), (630, 68151), (631, 68154), (656, 68205), (661, 68214), (668, 68229), (674, 68241), (696, 68289), (713, 68304), (727, 68325), (881, 68574), (888, 68586), (903, 68610), (932, 68646), (953, 68679), (963, 68697), (1007, 68802), (1049, 68922), (1056, 68934), (1081, 68991), (1086, 69003), (1091, 69009), (1121, 69057),

Gene: Tandem_77 Start: 49353, Stop: 47830, Start Num: 250
Candidate Starts for Tandem_77:
(214, 49419), (226, 49392), (Start: 250 @49353 has 29 MA's), (363, 49203), (375, 49194), (435, 49098), (448, 49065), (459, 49038), (482, 48984), (515, 48939), (517, 48936), (566, 48831), (568, 48828), (626, 48705), (631, 48696), (635, 48684), (660, 48630), (713, 48537), (766, 48429), (784, 48399), (787, 48393), (789, 48390), (792, 48387), (814, 48354), (822, 48342), (903, 48216), (938, 48168), (986, 48078), (995, 48060), (1012, 48012), (1061, 47889),

Gene: TatarkaPM_41 Start: 31124, Stop: 29736, Start Num: 360
Candidate Starts for TatarkaPM_41:
(Start: 49 @31775 has 8 MA's), (187, 31421), (220, 31346), (Start: 360 @31124 has 155 MA's), (445, 30980), (448, 30974), (449, 30971), (503, 30857), (518, 30830), (551, 30770), (562, 30743), (563, 30740), (611, 30644), (634, 30602), (715, 30440), (721, 30431), (732, 30410), (738, 30395), (743, 30383), (769, 30335), (836, 30275), (887, 30179), (932, 30116), (966, 30062), (1000, 29978), (1002, 29972), (1007, 29960), (1045, 29864), (1068, 29810), (1070, 29807), (1081, 29783),

Gene: TattModd_29 Start: 22150, Stop: 23550, Start Num: 333
Candidate Starts for TattModd_29:
(Start: 333 @22150 has 73 MA's), (381, 22213), (448, 22318), (449, 22321), (484, 22405), (512, 22438), (540, 22489), (544, 22495), (582, 22576), (584, 22579), (588, 22585), (607, 22621), (616, 22639), (617, 22642), (634, 22675), (640, 22696), (646, 22714), (677, 22747), (730, 22828), (740, 22855), (758, 22885), (763, 22894), (778, 22921), (798, 22954), (804, 22969), (840, 23023), (849, 23044), (857, 23056), (863, 23068), (990, 23290), (994, 23299), (997, 23305), (1009, 23341), (1030, 23401), (1038, 23428), (1084, 23518),

Gene: Teagan_41 Start: 31114, Stop: 29726, Start Num: 360
Candidate Starts for Teagan_41:
(Start: 49 @31765 has 8 MA's), (187, 31411), (220, 31336), (Start: 360 @31114 has 155 MA's), (445, 30970), (448, 30964), (449, 30961), (503, 30847), (518, 30820), (551, 30760), (562, 30733), (563, 30730), (611, 30634), (634, 30592), (721, 30421), (732, 30400), (743, 30373), (769, 30325), (836, 30265), (932, 30106), (966, 30052), (1000, 29968), (1002, 29962), (1007, 29950), (1045, 29854), (1068, 29800), (1070, 29797), (1081, 29773),

Gene: Teal_57 Start: 53068, Stop: 51656, Start Num: 294
Candidate Starts for Teal_57:
(102, 53416), (154, 53287), (192, 53200), (Start: 194 @53197 has 3 MA's), (Start: 294 @53068 has 29 MA's), (321, 53023), (380, 52933), (382, 52930), (386, 52924), (401, 52903), (444, 52840), (510, 52732), (520, 52714), (565, 52627), (572, 52612), (591, 52570), (640, 52489), (668, 52441), (688, 52399), (695, 52381), (697, 52378), (732, 52351), (755, 52300), (780, 52264), (810, 52213), (873, 52129), (886, 52108), (999, 51952), (1000, 51946), (1004, 51934), (1052, 51808), (1107, 51694),

Gene: Teardrop_185 Start: 99403, Stop: 97541, Start Num: 119
Candidate Starts for Teardrop_185:
(Start: 119 @99403 has 185 MA's), (Start: 145 @99343 has 1 MA's), (Start: 182 @99274 has 1 MA's), (420, 98902), (443, 98860), (449, 98842), (506, 98758), (518, 98734), (530, 98710), (532, 98707),

(555, 98662), (579, 98611), (595, 98581), (601, 98569), (661, 98440), (713, 98347), (717, 98341), (746, 98278), (748, 98272), (811, 98176), (814, 98170), (879, 98059), (921, 97987), (948, 97954), (951, 97945), (1004, 97825), (1010, 97807), (1047, 97708), (1048, 97705), (1058, 97684), (1083, 97630), (1107, 97594),

Gene: Teatealatte_58 Start: 53221, Stop: 51518, Start Num: 126
Candidate Starts for Teatealatte_58:
(Start: 126 @53221 has 9 MA's), (Start: 131 @53209 has 2 MA's), (227, 53026), (Start: 294 @52936 has 29 MA's), (301, 52927), (321, 52891), (336, 52867), (343, 52858), (348, 52849), (380, 52801), (Start: 388 @52789 has 1 MA's), (396, 52777), (436, 52720), (444, 52705), (447, 52702), (454, 52684), (468, 52648), (469, 52645), (555, 52516), (558, 52513), (572, 52477), (574, 52474), (581, 52456), (586, 52447), (591, 52435), (616, 52387), (640, 52354), (668, 52306), (679, 52282), (732, 52216), (780, 52117), (849, 52018), (871, 51985), (873, 51982), (938, 51916), (972, 51865), (974, 51862), (999, 51805), (1004, 51787), (1047, 51670), (1048, 51667), (1054, 51655), (1107, 51556), (1119, 51535),

Gene: TeddyBear_40 Start: 30816, Stop: 29428, Start Num: 360
Candidate Starts for TeddyBear_40:
(220, 31038), (Start: 360 @30816 has 155 MA's), (445, 30672), (448, 30666), (449, 30663), (503, 30549), (518, 30522), (551, 30462), (562, 30435), (563, 30432), (608, 30339), (611, 30336), (634, 30294), (721, 30123), (732, 30102), (738, 30087), (743, 30075), (769, 30027), (836, 29967), (887, 29871), (932, 29808), (966, 29754), (1000, 29670), (1002, 29664), (1007, 29652), (1033, 29577), (1045, 29556), (1068, 29502), (1070, 29499), (1081, 29475),

Gene: Tedro_40 Start: 25407, Stop: 27314, Start Num: 58
Candidate Starts for Tedro_40:
(Start: 58 @25407 has 39 MA's), (83, 25470), (96, 25491), (115, 25545), (202, 25722), (Start: 235 @25767 has 1 MA's), (341, 25941), (348, 25950), (409, 26040), (440, 26097), (539, 26283), (610, 26418), (616, 26430), (639, 26463), (662, 26508), (731, 26592), (796, 26709), (969, 26982), (987, 27018), (990, 27021), (1010, 27081), (1044, 27171), (1058, 27201), (1074, 27243), (1102, 27294),

Gene: Teech_58 Start: 53022, Stop: 51319, Start Num: 126
Candidate Starts for Teech_58:
(Start: 126 @53022 has 9 MA's), (Start: 131 @53010 has 2 MA's), (227, 52827), (Start: 294 @52737 has 29 MA's), (301, 52728), (321, 52692), (336, 52668), (343, 52659), (348, 52650), (380, 52602), (396, 52578), (444, 52506), (454, 52485), (468, 52449), (469, 52446), (555, 52317), (558, 52314), (572, 52278), (574, 52275), (581, 52257), (586, 52248), (591, 52236), (616, 52188), (640, 52155), (668, 52107), (679, 52083), (732, 52017), (780, 51918), (849, 51819), (854, 51810), (871, 51786), (873, 51783), (938, 51717), (972, 51666), (974, 51663), (999, 51606), (1004, 51588), (1047, 51471), (1048, 51468), (1054, 51456), (1107, 51357), (1119, 51336),

Gene: Temper16_26 Start: 21732, Stop: 23129, Start Num: 333
Candidate Starts for Temper16_26:
(Start: 333 @21732 has 73 MA's), (381, 21792), (441, 21879), (448, 21897), (449, 21900), (484, 21984), (486, 21990), (512, 22017), (540, 22068), (544, 22074), (566, 22125), (571, 22134), (582, 22155), (588, 22164), (607, 22200), (617, 22221), (634, 22254), (640, 22275), (646, 22293), (651, 22299), (677, 22326), (686, 22338), (692, 22353), (730, 22407), (753, 22458), (758, 22464), (763, 22473), (766, 22479), (778, 22500), (798, 22533), (804, 22548), (814, 22557), (888, 22680), (910, 22719), (926, 22743), (934, 22755), (988, 22863), (990, 22869), (994, 22878), (997, 22884), (1009, 22920), (1038, 23007), (1084, 23097), (1094, 23121),

Gene: Tenda_40 Start: 30814, Stop: 29426, Start Num: 360
Candidate Starts for Tenda_40:

(220, 31036), (Start: 360 @30814 has 155 MA's), (445, 30670), (448, 30664), (449, 30661), (503, 30547), (518, 30520), (551, 30460), (562, 30433), (563, 30430), (611, 30334), (634, 30292), (721, 30121), (732, 30100), (738, 30085), (769, 30025), (836, 29965), (887, 29869), (932, 29806), (966, 29752), (1000, 29668), (1002, 29662), (1007, 29650), (1045, 29554), (1068, 29500), (1070, 29497), (1081, 29473),

Gene: Terapin_51 Start: 36616, Stop: 38670, Start Num: 53
Candidate Starts for Terapin_51:
(Start: 53 @36616 has 9 MA's), (67, 36640), (90, 36703), (123, 36787), (Start: 144 @36829 has 3 MA's), (268, 37051), (296, 37087), (345, 37162), (373, 37201), (411, 37243), (423, 37261), (433, 37282), (439, 37294), (466, 37354), (473, 37369), (506, 37387), (543, 37465), (554, 37480), (555, 37483), (572, 37522), (581, 37543), (637, 37645), (668, 37702), (677, 37723), (679, 37726), (686, 37738), (702, 37786), (703, 37792), (708, 37840), (716, 37873), (723, 37897), (728, 37915), (739, 37945), (801, 38068), (819, 38101), (829, 38113), (842, 38128), (871, 38167), (903, 38212), (918, 38239), (967, 38323), (997, 38386), (1010, 38428), (1013, 38437), (1015, 38446), (1031, 38494), (1036, 38503), (1041, 38515), (1050, 38530), (1067, 38572),

Gene: Theresita_31 Start: 21253, Stop: 22665, Start Num: 339
Candidate Starts for Theresita_31:
(Start: 339 @21253 has 21 MA's), (444, 21397), (450, 21415), (489, 21505), (577, 21664), (584, 21682), (588, 21688), (599, 21703), (607, 21724), (617, 21745), (734, 21955), (749, 21991), (778, 22039), (791, 22060), (798, 22072), (804, 22087), (824, 22114), (837, 22129), (860, 22186), (910, 22261), (926, 22285), (944, 22315), (951, 22327), (975, 22369), (988, 22399), (1009, 22456), (1013, 22468), (1042, 22549), (1044, 22552), (1058, 22576), (1065, 22594), (1078, 22624),

Gene: Thompsone_41 Start: 31121, Stop: 29733, Start Num: 360
Candidate Starts for Thompsone_41:
(Start: 49 @31772 has 8 MA's), (187, 31418), (220, 31343), (Start: 360 @31121 has 155 MA's), (445, 30977), (448, 30971), (449, 30968), (503, 30854), (518, 30827), (551, 30767), (562, 30740), (563, 30737), (611, 30641), (634, 30599), (721, 30428), (732, 30407), (743, 30380), (769, 30332), (836, 30272), (932, 30113), (966, 30059), (1000, 29975), (1002, 29969), (1007, 29957), (1033, 29882), (1045, 29861), (1068, 29807), (1070, 29804), (1081, 29780),

Gene: Thorongil_41 Start: 31121, Stop: 29733, Start Num: 360
Candidate Starts for Thorongil_41:
(281, 31220), (283, 31217), (285, 31214), (351, 31130), (Start: 360 @31121 has 155 MA's), (445, 30977), (448, 30971), (449, 30968), (503, 30854), (518, 30827), (551, 30767), (562, 30740), (563, 30737), (611, 30641), (634, 30599), (721, 30428), (732, 30407), (738, 30392), (743, 30380), (769, 30332), (836, 30272), (932, 30113), (966, 30059), (1000, 29975), (1002, 29969), (1007, 29957), (1033, 29882), (1045, 29861), (1068, 29807), (1070, 29804), (1081, 29780),

Gene: Thoth_53 Start: 39727, Stop: 41670, Start Num: 51
Candidate Starts for Thoth_53:
(Start: 51 @39727 has 50 MA's), (66, 39754), (88, 39826), (107, 39880), (140, 39940), (147, 39958), (150, 39967), (177, 40018), (195, 40060), (Start: 222 @40096 has 29 MA's), (271, 40183), (331, 40276), (341, 40291), (354, 40312), (433, 40414), (447, 40447), (458, 40471), (509, 40531), (554, 40618), (587, 40693), (639, 40783), (668, 40834), (669, 40837), (720, 40927), (731, 40945), (745, 40978), (778, 41032), (784, 41044), (796, 41062), (842, 41125), (903, 41209), (969, 41326), (989, 41374), (1011, 41437), (1041, 41521),

Gene: Thumb_62 Start: 46085, Stop: 48142, Start Num: 45
Candidate Starts for Thumb_62:

(Start: 45 @46085 has 11 MA's), (72, 46145), (73, 46148), (106, 46241), (111, 46253), (120, 46274), (Start: 182 @46397 has 1 MA's), (183, 46400), (187, 46409), (202, 46442), (206, 46463), (229, 46511), (296, 46616), (309, 46637), (314, 46643), (348, 46697), (462, 46883), (466, 46895), (474, 46913), (506, 46928), (509, 46934), (668, 47252), (669, 47255), (689, 47300), (727, 47351), (731, 47363), (778, 47453), (784, 47465), (802, 47498), (819, 47522), (826, 47531), (907, 47621), (926, 47654), (985, 47765), (989, 47768), (990, 47771), (992, 47774), (1010, 47828), (1031, 47894), (1041, 47912), (1126, 48089),

Gene: Thunderclap_70 Start: 47442, Stop: 46048, Start Num: 252
Candidate Starts for Thunderclap_70:
(Start: 252 @47442 has 13 MA's), (311, 47373), (363, 47298), (381, 47280), (403, 47250), (447, 47169), (468, 47115), (527, 47019), (602, 46875), (622, 46836), (677, 46722), (719, 46671), (743, 46650), (760, 46620), (767, 46605), (773, 46593), (848, 46512), (897, 46464), (915, 46437), (927, 46416), (976, 46332), (1005, 46266), (1084, 46077), (1088, 46065),

Gene: Tiggy93_40 Start: 25940, Stop: 27847, Start Num: 58
Candidate Starts for Tiggy93_40:
(Start: 58 @25940 has 39 MA's), (83, 26003), (96, 26024), (115, 26078), (202, 26255), (Start: 235 @26300 has 1 MA's), (341, 26474), (348, 26483), (409, 26573), (440, 26630), (539, 26816), (610, 26951), (616, 26963), (639, 26996), (731, 27125), (796, 27242), (856, 27317), (987, 27551), (990, 27554), (1010, 27614), (1044, 27704), (1058, 27734), (1074, 27776), (1102, 27827),

Gene: Tillicus_56 Start: 39985, Stop: 41907, Start Num: 52
Candidate Starts for Tillicus_56:
(19, 39862), (20, 39883), (24, 39904), (Start: 37 @39934 has 1 MA's), (Start: 45 @39967 has 11 MA's), (Start: 50 @39979 has 13 MA's), (Start: 52 @39985 has 1 MA's), (Start: 58 @40003 has 39 MA's), (66, 40015), (75, 40051), (87, 40084), (90, 40087), (106, 40135), (115, 40153), (158, 40243), (168, 40261), (173, 40270), (178, 40279), (Start: 222 @40351 has 29 MA's), (296, 40471), (300, 40474), (335, 40534), (348, 40552), (399, 40624), (418, 40651), (509, 40786), (518, 40804), (538, 40846), (551, 40867), (554, 40873), (572, 40915), (581, 40936), (591, 40957), (610, 40993), (638, 41050), (642, 41062), (662, 41092), (666, 41101), (689, 41152), (745, 41248), (746, 41251), (832, 41362), (870, 41410), (903, 41452), (918, 41479), (967, 41563), (1004, 41647), (1010, 41665), (1017, 41689), (1022, 41704), (1041, 41752), (1050, 41767), (1066, 41806), (1072, 41821), (1083, 41842), (1115, 41899),

Gene: TinSulphur_42 Start: 31120, Stop: 29732, Start Num: 360
Candidate Starts for TinSulphur_42:
(Start: 49 @31771 has 8 MA's), (187, 31417), (220, 31342), (Start: 360 @31120 has 155 MA's), (445, 30976), (448, 30970), (449, 30967), (503, 30853), (518, 30826), (551, 30766), (562, 30739), (563, 30736), (611, 30640), (634, 30598), (715, 30436), (721, 30427), (732, 30406), (738, 30391), (743, 30379), (769, 30331), (836, 30271), (887, 30175), (932, 30112), (966, 30058), (1000, 29974), (1002, 29968), (1007, 29956), (1045, 29860), (1068, 29806), (1070, 29803), (1081, 29779),

Gene: TinyMiny_42 Start: 26527, Stop: 28557, Start Num: 29
Candidate Starts for TinyMiny_42:
(13, 26383), (Start: 29 @26527 has 1 MA's), (Start: 57 @26617 has 1 MA's), (Start: 61 @26623 has 6 MA's), (115, 26770), (123, 26788), (Start: 126 @26797 has 9 MA's), (202, 26947), (281, 27073), (341, 27163), (348, 27172), (409, 27262), (433, 27304), (518, 27466), (616, 27652), (625, 27670), (639, 27685), (668, 27742), (727, 27802), (759, 27874), (848, 28012), (894, 28078), (906, 28108), (950, 28186), (990, 28264), (1010, 28324), (1022, 28363), (1044, 28414), (1054, 28432), (1104, 28540),

Gene: TinyTim_186 Start: 100107, Stop: 98245, Start Num: 119
Candidate Starts for TinyTim_186:

(Start: 119 @100107 has 185 MA's), (Start: 145 @100047 has 1 MA's), (Start: 182 @99978 has 1 MA's), (420, 99606), (443, 99564), (449, 99546), (506, 99462), (518, 99438), (530, 99414), (532, 99411), (555, 99366), (579, 99315), (595, 99285), (601, 99273), (661, 99144), (713, 99051), (717, 99045), (746, 98982), (748, 98976), (811, 98880), (814, 98874), (879, 98763), (921, 98691), (948, 98658), (951, 98649), (1004, 98529), (1010, 98511), (1047, 98412), (1048, 98409), (1058, 98388), (1083, 98334), (1107, 98298),

Gene: Tinyman4_39 Start: 29477, Stop: 28092, Start Num: 357
Candidate Starts for Tinyman4_39:
(Start: 357 @29477 has 5 MA's), (474, 29264), (503, 29201), (515, 29180), (562, 29087), (563, 29084), (574, 29063), (583, 29042), (634, 28946), (721, 28775), (733, 28751), (738, 28739), (743, 28727), (748, 28715), (750, 28712), (763, 28694), (769, 28679), (836, 28619), (841, 28607), (847, 28595), (887, 28523), (907, 28493), (932, 28460), (989, 28352), (993, 28343), (999, 28328), (1000, 28322), (1002, 28316), (1007, 28304), (1045, 28208), (1048, 28199), (1061, 28169), (1081, 28127),

Gene: Tonenili_206 Start: 105613, Stop: 103745, Start Num: 119
Candidate Starts for Tonenili_206:
(Start: 119 @105613 has 185 MA's), (241, 105355), (422, 105109), (443, 105070), (476, 104989), (506, 104962), (508, 104959), (518, 104938), (530, 104914), (532, 104911), (555, 104866), (579, 104815), (595, 104785), (601, 104773), (661, 104644), (713, 104551), (717, 104545), (746, 104482), (748, 104476), (811, 104380), (814, 104374), (879, 104263), (921, 104191), (948, 104158), (951, 104149), (1004, 104029), (1010, 104011), (1047, 103912), (1048, 103909), (1058, 103888), (1107, 103798),

Gene: Tongui_40 Start: 25537, Stop: 27444, Start Num: 58
Candidate Starts for Tongui_40:
(17, 25363), (Start: 58 @25537 has 39 MA's), (83, 25600), (96, 25621), (115, 25675), (Start: 144 @25735 has 3 MA's), (193, 25837), (202, 25852), (Start: 235 @25897 has 1 MA's), (341, 26071), (348, 26080), (409, 26170), (411, 26173), (440, 26227), (539, 26413), (593, 26521), (610, 26548), (616, 26560), (731, 26722), (796, 26839), (990, 27151), (1010, 27211), (1044, 27301), (1058, 27331), (1074, 27373), (1102, 27424),

Gene: Tophat_91 Start: 59055, Stop: 60800, Start Num: 159
Candidate Starts for Tophat_91:
(Start: 159 @59055 has 18 MA's), (168, 59076), (205, 59154), (215, 59178), (238, 59223), (251, 59247), (272, 59286), (370, 59445), (375, 59454), (406, 59496), (418, 59517), (441, 59550), (444, 59556), (445, 59559), (450, 59574), (459, 59589), (500, 59676), (508, 59688), (511, 59694), (529, 59730), (542, 59754), (551, 59766), (613, 59898), (652, 59982), (667, 60003), (672, 60015), (680, 60030), (682, 60033), (692, 60057), (714, 60081), (725, 60093), (747, 60150), (779, 60195), (818, 60261), (827, 60273), (835, 60282), (842, 60306), (845, 60309), (864, 60345), (866, 60351), (877, 60375), (928, 60456), (931, 60462), (942, 60480), (960, 60507), (964, 60513), (977, 60543), (978, 60549), (1006, 60609), (1021, 60660), (1024, 60666), (1038, 60705),

Gene: Tortoise16_186 Start: 100644, Stop: 98782, Start Num: 119
Candidate Starts for Tortoise16_186:
(Start: 119 @100644 has 185 MA's), (Start: 145 @100584 has 1 MA's), (Start: 182 @100515 has 1 MA's), (420, 100143), (443, 100101), (449, 100083), (506, 99999), (518, 99975), (530, 99951), (532, 99948), (555, 99903), (579, 99852), (595, 99822), (601, 99810), (661, 99681), (713, 99588), (717, 99582), (746, 99519), (748, 99513), (811, 99417), (814, 99411), (879, 99300), (921, 99228), (948, 99195), (951, 99186), (1004, 99066), (1010, 99048), (1047, 98949), (1048, 98946), (1058, 98925), (1083, 98871), (1107, 98835),

Gene: Tracker_72 Start: 55556, Stop: 53490, Start Num: 35

Candidate Starts for Tracker_72:
(8, 55760), (9, 55748), (11, 55730), (Start: 35 @55556 has 37 MA's), (Start: 80 @55418 has 2 MA's), (92, 55394), (178, 55190), (Start: 200 @55145 has 9 MA's), (271, 55037), (345, 54923), (348, 54920), (409, 54830), (411, 54827), (450, 54767), (538, 54629), (547, 54611), (561, 54587), (618, 54464), (668, 54359), (731, 54233), (755, 54179), (834, 54053), (842, 54044), (854, 54020), (903, 53948), (907, 53942), (925, 53912), (957, 53855), (989, 53795), (1011, 53732), (1041, 53651),

Gene: Tredge_57 Start: 53221, Stop: 51518, Start Num: 126
Candidate Starts for Tredge_57:
(Start: 126 @53221 has 9 MA's), (Start: 131 @53209 has 2 MA's), (227, 53026), (Start: 294 @52936 has 29 MA's), (301, 52927), (321, 52891), (336, 52867), (343, 52858), (348, 52849), (380, 52801), (Start: 388 @52789 has 1 MA's), (396, 52777), (436, 52720), (444, 52705), (447, 52702), (454, 52684), (468, 52648), (469, 52645), (555, 52516), (558, 52513), (572, 52477), (574, 52474), (581, 52456), (586, 52447), (591, 52435), (616, 52387), (640, 52354), (668, 52306), (679, 52282), (732, 52216), (780, 52117), (849, 52018), (871, 51985), (873, 51982), (938, 51916), (972, 51865), (974, 51862), (999, 51805), (1004, 51787), (1047, 51670), (1048, 51667), (1054, 51655), (1107, 51556), (1119, 51535),

Gene: Trinitium_185 Start: 100337, Stop: 98475, Start Num: 119
Candidate Starts for Trinitium_185:
(Start: 119 @100337 has 185 MA's), (Start: 145 @100277 has 1 MA's), (Start: 182 @100208 has 1 MA's), (420, 99836), (443, 99794), (449, 99776), (506, 99692), (518, 99668), (530, 99644), (532, 99641), (555, 99596), (579, 99545), (595, 99515), (601, 99503), (661, 99374), (713, 99281), (717, 99275), (746, 99212), (748, 99206), (811, 99110), (814, 99104), (879, 98993), (921, 98921), (948, 98888), (951, 98879), (1004, 98759), (1010, 98741), (1047, 98642), (1048, 98639), (1058, 98618), (1083, 98564), (1107, 98528),

Gene: TripleC_39 Start: 29350, Stop: 27542, Start Num: 64
Candidate Starts for TripleC_39:
(Start: 44 @29395 has 1 MA's), (Start: 64 @29350 has 19 MA's), (Start: 80 @29290 has 2 MA's), (140, 29167), (173, 29089), (246, 28972), (Start: 252 @28960 has 13 MA's), (303, 28876), (447, 28738), (528, 28552), (572, 28459), (581, 28438), (638, 28333), (671, 28267), (679, 28252), (731, 28204), (790, 28135), (793, 28132), (794, 28129), (800, 28114), (842, 28075), (847, 28066), (856, 28048), (886, 28012), (888, 28009), (900, 27991), (906, 27973), (907, 27970), (926, 27937), (993, 27817), (1004, 27784), (1013, 27757), (1030, 27709), (1067, 27619), (1092, 27568),

Gene: Trogglehumper_76 Start: 59717, Stop: 58170, Start Num: 232
Candidate Starts for Trogglehumper_76:
(169, 59828), (201, 59762), (Start: 232 @59717 has 1 MA's), (304, 59600), (321, 59567), (354, 59525), (Start: 358 @59519 has 23 MA's), (380, 59495), (Start: 430 @59429 has 1 MA's), (434, 59420), (435, 59417), (462, 59354), (477, 59315), (528, 59249), (563, 59183), (572, 59165), (578, 59153), (586, 59135), (610, 59087), (613, 59081), (668, 59003), (688, 58961), (695, 58943), (743, 58886), (747, 58877), (846, 58751), (871, 58709), (873, 58706), (886, 58685), (901, 58652), (931, 58595), (1004, 58445), (1012, 58421), (1030, 58370), (1067, 58280), (1085, 58241), (1103, 58220), (1110, 58208), (1112, 58205), (1119, 58193),

Gene: Troll4_53 Start: 39859, Stop: 41802, Start Num: 51
Candidate Starts for Troll4_53:
(Start: 51 @39859 has 50 MA's), (66, 39886), (88, 39958), (107, 40012), (140, 40072), (147, 40090), (150, 40099), (177, 40150), (195, 40192), (Start: 222 @40228 has 29 MA's), (271, 40315), (331, 40408), (341, 40423), (354, 40444), (433, 40546), (447, 40579), (458, 40603), (509, 40663), (554, 40750), (587, 40825), (639, 40915), (668, 40966), (669, 40969), (720, 41059), (731, 41077), (745, 41110), (778, 41164), (784, 41176), (796, 41194), (842, 41257), (903, 41341), (969, 41458), (989,

41506), (1011, 41569), (1041, 41653),

Gene: Troy_45 Start: 36746, Stop: 38122, Start Num: 342
Candidate Starts for Troy_45:
(Start: 342 @36746 has 7 MA's), (391, 36815), (406, 36833), (450, 36926), (476, 36986), (478, 36992), (479, 36995), (539, 37115), (551, 37133), (607, 37250), (678, 37388), (695, 37427), (725, 37460), (727, 37466), (732, 37481), (748, 37520), (788, 37580), (801, 37604), (835, 37640), (872, 37709), (876, 37715), (939, 37796), (993, 37892), (998, 37904), (1003, 37916), (1021, 37973), (1024, 37979), (1029, 37991), (1039, 38021), (1064, 38072),

Gene: TurboVicky_33 Start: 23252, Stop: 24679, Start Num: 339
Candidate Starts for TurboVicky_33:
(314, 23210), (Start: 339 @23252 has 21 MA's), (524, 23570), (599, 23717), (607, 23738), (749, 24005), (778, 24053), (791, 24074), (827, 24131), (842, 24164), (860, 24200), (914, 24278), (926, 24299), (973, 24380), (975, 24383), (1009, 24470), (1013, 24482), (1026, 24521), (1038, 24557), (1042, 24563), (1047, 24575), (1078, 24638),

Gene: Turret_182 Start: 99919, Stop: 98057, Start Num: 119
Candidate Starts for Turret_182:
(Start: 119 @99919 has 185 MA's), (Start: 145 @99859 has 1 MA's), (Start: 182 @99790 has 1 MA's), (420, 99418), (443, 99376), (449, 99358), (506, 99274), (518, 99250), (530, 99226), (532, 99223), (555, 99178), (579, 99127), (595, 99097), (601, 99085), (661, 98956), (713, 98863), (717, 98857), (746, 98794), (748, 98788), (811, 98692), (814, 98686), (879, 98575), (921, 98503), (948, 98470), (951, 98461), (1004, 98341), (1010, 98323), (1047, 98224), (1048, 98221), (1058, 98200), (1083, 98146), (1107, 98110),

Gene: Turuncu_75 Start: 56841, Stop: 54784, Start Num: 35
Candidate Starts for Turuncu_75:
(6, 57126), (11, 57009), (14, 56991), (Start: 35 @56841 has 37 MA's), (271, 56328), (309, 56274), (331, 56238), (348, 56211), (404, 56133), (409, 56121), (450, 56058), (453, 56052), (520, 55959), (538, 55920), (547, 55902), (618, 55755), (637, 55722), (649, 55692), (653, 55686), (668, 55659), (731, 55536), (767, 55467), (778, 55449), (842, 55344), (847, 55335), (889, 55275), (907, 55236), (925, 55206), (936, 55188), (957, 55149), (989, 55089), (1000, 55059), (1011, 55026), (1025, 54984), (1096, 54828),

Gene: TwoBits_39 Start: 29510, Stop: 28083, Start Num: 360
Candidate Starts for TwoBits_39:
(Start: 360 @29510 has 155 MA's), (380, 29480), (384, 29474), (Start: 430 @29402 has 1 MA's), (447, 29363), (448, 29360), (449, 29357), (474, 29297), (562, 29120), (563, 29117), (607, 29024), (640, 28955), (686, 28862), (721, 28805), (743, 28757), (748, 28745), (763, 28724), (811, 28643), (836, 28610), (862, 28556), (865, 28550), (887, 28514), (891, 28511), (932, 28451), (989, 28343), (993, 28334), (999, 28319), (1000, 28313), (1007, 28295), (1048, 28190), (1081, 28118),

Gene: Tyke_186 Start: 102011, Stop: 100149, Start Num: 119
Candidate Starts for Tyke_186:
(Start: 119 @102011 has 185 MA's), (Start: 145 @101951 has 1 MA's), (Start: 182 @101882 has 1 MA's), (420, 101510), (443, 101468), (449, 101450), (506, 101366), (518, 101342), (530, 101318), (532, 101315), (555, 101270), (579, 101219), (595, 101189), (601, 101177), (661, 101048), (713, 100955), (717, 100949), (746, 100886), (748, 100880), (811, 100784), (814, 100778), (879, 100667), (921, 100595), (948, 100562), (951, 100553), (1004, 100433), (1010, 100415), (1047, 100316), (1048, 100313), (1058, 100292), (1083, 100238), (1107, 100202),

Gene: Typher_35 Start: 23381, Stop: 24808, Start Num: 339

Candidate Starts for Typher_35:
(314, 23339), (Start: 339 @23381 has 21 MA's), (524, 23699), (571, 23801), (599, 23846), (607, 23867), (749, 24134), (778, 24182), (791, 24203), (827, 24260), (842, 24293), (860, 24329), (914, 24407), (926, 24428), (973, 24509), (975, 24512), (1009, 24599), (1013, 24611), (1026, 24650), (1038, 24686), (1047, 24704), (1078, 24767),

Gene: UNTPL_44 Start: 31380, Stop: 32774, Start Num: 346
Candidate Starts for UNTPL_44:
(Start: 346 @31380 has 14 MA's), (Start: 349 @31383 has 3 MA's), (400, 31458), (416, 31482), (443, 31512), (448, 31527), (493, 31617), (525, 31653), (571, 31752), (575, 31761), (613, 31830), (678, 31953), (749, 32088), (766, 32115), (778, 32136), (827, 32214), (842, 32247), (847, 32256), (870, 32298), (910, 32364), (926, 32388), (939, 32406), (948, 32424), (975, 32478), (988, 32508), (1009, 32565), (1010, 32568), (1026, 32616), (1041, 32655), (1047, 32670), (1082, 32739), (1090, 32757), (1094, 32766),

Gene: Urla_26 Start: 21745, Stop: 23142, Start Num: 333
Candidate Starts for Urla_26:
(Start: 333 @21745 has 73 MA's), (381, 21805), (448, 21910), (484, 21997), (512, 22030), (540, 22081), (544, 22087), (582, 22168), (588, 22177), (607, 22213), (616, 22231), (617, 22234), (634, 22267), (640, 22288), (693, 22369), (730, 22420), (740, 22447), (758, 22477), (763, 22486), (773, 22507), (778, 22513), (798, 22546), (804, 22561), (814, 22570), (842, 22621), (858, 22651), (910, 22732), (939, 22774), (957, 22807), (983, 22870), (994, 22891), (997, 22897), (1002, 22912), (1009, 22933), (1038, 23020), (1067, 23077), (1084, 23110),

Gene: Uterion_82 Start: 49462, Stop: 47939, Start Num: 250
Candidate Starts for Uterion_82:
(130, 49723), (146, 49681), (Start: 250 @49462 has 29 MA's), (336, 49351), (363, 49312), (375, 49303), (403, 49264), (435, 49207), (451, 49165), (459, 49147), (482, 49093), (515, 49048), (517, 49045), (568, 48943), (626, 48820), (640, 48784), (660, 48745), (690, 48679), (713, 48652), (726, 48634), (737, 48604), (766, 48544), (784, 48514), (792, 48502), (795, 48496), (986, 48187), (995, 48169), (1010, 48127), (1012, 48121), (1017, 48103), (1018, 48100), (1072, 47974),

Gene: Vafari_40 Start: 29079, Stop: 27652, Start Num: 360
Candidate Starts for Vafari_40:
(Start: 360 @29079 has 155 MA's), (380, 29049), (384, 29043), (433, 28965), (448, 28929), (449, 28926), (450, 28923), (562, 28689), (563, 28686), (686, 28431), (717, 28380), (721, 28374), (743, 28326), (763, 28293), (769, 28278), (814, 28206), (836, 28179), (840, 28170), (862, 28125), (865, 28119), (882, 28092), (932, 28020), (973, 27948), (989, 27912), (993, 27903), (999, 27888), (1000, 27882), (1007, 27864), (1019, 27822), (1048, 27759), (1081, 27687),

Gene: Vallejo_29 Start: 22089, Stop: 23489, Start Num: 333
Candidate Starts for Vallejo_29:
(Start: 333 @22089 has 73 MA's), (381, 22152), (448, 22257), (449, 22260), (484, 22344), (512, 22377), (540, 22428), (544, 22434), (582, 22515), (584, 22518), (588, 22524), (607, 22560), (616, 22578), (617, 22581), (634, 22614), (640, 22635), (646, 22653), (677, 22686), (730, 22767), (740, 22794), (758, 22824), (763, 22833), (778, 22860), (798, 22893), (804, 22908), (840, 22962), (849, 22983), (857, 22995), (863, 23007), (990, 23229), (994, 23238), (997, 23244), (1009, 23280), (1030, 23340), (1038, 23367), (1084, 23457),

Gene: ValleyTerrace_188 Start: 99711, Stop: 97849, Start Num: 119
Candidate Starts for ValleyTerrace_188:
(Start: 119 @99711 has 185 MA's), (Start: 145 @99651 has 1 MA's), (Start: 182 @99582 has 1 MA's), (420, 99210), (443, 99168), (449, 99150), (506, 99066), (518, 99042), (530, 99018), (532, 99015),

(555, 98970), (579, 98919), (595, 98889), (601, 98877), (661, 98748), (713, 98655), (717, 98649), (746, 98586), (748, 98580), (811, 98484), (814, 98478), (879, 98367), (921, 98295), (948, 98262), (951, 98253), (1004, 98133), (1010, 98115), (1047, 98016), (1048, 98013), (1058, 97992), (1083, 97938), (1107, 97902),

Gene: Velene_41 Start: 31119, Stop: 29731, Start Num: 360
Candidate Starts for Velene_41:
(Start: 49 @31770 has 8 MA's), (187, 31416), (220, 31341), (Start: 360 @31119 has 155 MA's), (445, 30975), (448, 30969), (449, 30966), (503, 30852), (518, 30825), (551, 30765), (562, 30738), (563, 30735), (611, 30639), (634, 30597), (721, 30426), (732, 30405), (743, 30378), (769, 30330), (836, 30270), (932, 30111), (966, 30057), (1000, 29973), (1002, 29967), (1007, 29955), (1045, 29859), (1068, 29805), (1070, 29802), (1081, 29778),

Gene: Virizion_75 Start: 50499, Stop: 48628, Start Num: 58
Candidate Starts for Virizion_75:
(Start: 49 @50514 has 8 MA's), (Start: 58 @50499 has 39 MA's), (83, 50436), (89, 50427), (137, 50322), (152, 50283), (161, 50259), (202, 50184), (Start: 222 @50160 has 29 MA's), (315, 50001), (341, 49962), (348, 49953), (418, 49845), (470, 49737), (509, 49689), (562, 49584), (586, 49533), (616, 49473), (655, 49407), (666, 49386), (668, 49383), (745, 49278), (748, 49269), (755, 49257), (815, 49158), (918, 49041), (926, 49029), (943, 49002), (990, 48912), (997, 48897), (1013, 48843), (1031, 48786), (1083, 48678), (1092, 48660),

Gene: Visconti_54 Start: 39739, Stop: 41682, Start Num: 51
Candidate Starts for Visconti_54:
(Start: 51 @39739 has 50 MA's), (66, 39766), (88, 39838), (107, 39892), (140, 39952), (147, 39970), (150, 39979), (177, 40030), (195, 40072), (Start: 222 @40108 has 29 MA's), (271, 40195), (331, 40288), (341, 40303), (354, 40324), (433, 40426), (447, 40459), (458, 40483), (509, 40543), (554, 40630), (587, 40705), (639, 40795), (668, 40846), (669, 40849), (720, 40939), (731, 40957), (745, 40990), (778, 41044), (784, 41056), (796, 41074), (842, 41137), (903, 41221), (969, 41338), (989, 41386), (1011, 41449), (1041, 41533),

Gene: Vispistious_41 Start: 31121, Stop: 29733, Start Num: 360
Candidate Starts for Vispistious_41:
(Start: 49 @31772 has 8 MA's), (187, 31418), (220, 31343), (Start: 360 @31121 has 155 MA's), (445, 30977), (448, 30971), (449, 30968), (503, 30854), (518, 30827), (551, 30767), (562, 30740), (563, 30737), (611, 30641), (634, 30599), (721, 30428), (732, 30407), (743, 30380), (769, 30332), (836, 30272), (932, 30113), (966, 30059), (1000, 29975), (1002, 29969), (1007, 29957), (1045, 29861), (1068, 29807), (1070, 29804), (1081, 29780),

Gene: Vitaenoii_57 Start: 53928, Stop: 52234, Start Num: 126
Candidate Starts for Vitaenoii_57:
(Start: 126 @53928 has 9 MA's), (Start: 131 @53916 has 2 MA's), (Start: 185 @53796 has 1 MA's), (204, 53763), (227, 53733), (301, 53634), (321, 53598), (336, 53574), (343, 53565), (348, 53556), (380, 53508), (382, 53505), (386, 53499), (Start: 388 @53496 has 1 MA's), (462, 53373), (469, 53352), (517, 53292), (558, 53220), (565, 53199), (572, 53184), (574, 53181), (578, 53172), (668, 53013), (691, 52962), (697, 52950), (700, 52944), (732, 52923), (751, 52878), (780, 52833), (803, 52791), (849, 52734), (870, 52704), (871, 52701), (873, 52698), (929, 52644), (999, 52521), (1004, 52503), (1047, 52386), (1048, 52383), (1054, 52371), (1119, 52251),

Gene: Vortrix_205 Start: 104713, Stop: 102845, Start Num: 119
Candidate Starts for Vortrix_205:
(Start: 119 @104713 has 185 MA's), (241, 104455), (422, 104209), (443, 104170), (476, 104089), (506, 104062), (508, 104059), (518, 104038), (530, 104014), (532, 104011), (555, 103966), (579,

103915), (595, 103885), (601, 103873), (661, 103744), (713, 103651), (717, 103645), (746, 103582), (748, 103576), (811, 103480), (814, 103474), (879, 103363), (921, 103291), (948, 103258), (951, 103249), (1004, 103129), (1010, 103111), (1047, 103012), (1048, 103009), (1058, 102988), (1107, 102898),

Gene: Vulture_26 Start: 21745, Stop: 23139, Start Num: 333
Candidate Starts for Vulture_26:
(Start: 333 @21745 has 73 MA's), (381, 21802), (441, 21889), (448, 21907), (449, 21910), (484, 21994), (512, 22027), (540, 22078), (544, 22084), (571, 22144), (588, 22174), (607, 22210), (616, 22228), (634, 22264), (640, 22285), (646, 22303), (651, 22309), (677, 22336), (730, 22417), (740, 22444), (753, 22468), (763, 22483), (778, 22510), (798, 22543), (804, 22558), (908, 22726), (926, 22753), (934, 22765), (944, 22783), (988, 22873), (990, 22879), (997, 22894), (998, 22897), (1009, 22930), (1030, 22990), (1038, 23017), (1067, 23074), (1084, 23107), (1094, 23131),

Gene: WaddleDee_88 Start: 75744, Stop: 77588, Start Num: 60
Candidate Starts for WaddleDee_88:
(Start: 60 @75744 has 17 MA's), (167, 76017), (Start: 252 @76125 has 13 MA's), (290, 76191), (331, 76260), (336, 76269), (447, 76344), (591, 76653), (614, 76698), (638, 76737), (647, 76758), (671, 76803), (729, 76860), (731, 76866), (745, 76899), (750, 76911), (757, 76923), (842, 77040), (846, 77046), (906, 77136), (925, 77169), (970, 77253), (1011, 77346), (1018, 77370), (1089, 77538), (1092, 77541),

Gene: WaldoWhy_55 Start: 39836, Stop: 41779, Start Num: 51
Candidate Starts for WaldoWhy_55:
(Start: 51 @39836 has 50 MA's), (66, 39863), (88, 39935), (107, 39989), (140, 40049), (147, 40067), (150, 40076), (177, 40127), (195, 40169), (Start: 222 @40205 has 29 MA's), (271, 40292), (331, 40385), (341, 40400), (354, 40421), (433, 40523), (447, 40556), (458, 40580), (509, 40640), (554, 40727), (587, 40802), (639, 40892), (668, 40943), (669, 40946), (720, 41036), (731, 41054), (745, 41087), (778, 41141), (784, 41153), (796, 41171), (842, 41234), (903, 41318), (969, 41435), (989, 41483), (1011, 41546), (1041, 41630),

Gene: Wally_188 Start: 100487, Stop: 98625, Start Num: 119
Candidate Starts for Wally_188:
(Start: 119 @100487 has 185 MA's), (Start: 145 @100427 has 1 MA's), (Start: 182 @100358 has 1 MA's), (420, 99986), (443, 99944), (449, 99926), (506, 99842), (518, 99818), (530, 99794), (532, 99791), (555, 99746), (579, 99695), (595, 99665), (601, 99653), (661, 99524), (713, 99431), (717, 99425), (746, 99362), (748, 99356), (811, 99260), (814, 99254), (879, 99143), (921, 99071), (948, 99038), (951, 99029), (1004, 98909), (1010, 98891), (1047, 98792), (1048, 98789), (1058, 98768), (1083, 98714), (1107, 98678),

Gene: Waltz_91 Start: 53322, Stop: 54977, Start Num: 287
Candidate Starts for Waltz_91:
(Start: 287 @53322 has 9 MA's), (325, 53385), (332, 53394), (389, 53478), (478, 53646), (526, 53739), (542, 53775), (566, 53829), (588, 53880), (604, 53916), (617, 53943), (631, 53970), (642, 54003), (645, 54012), (712, 54129), (748, 54207), (759, 54225), (786, 54276), (804, 54309), (827, 54342), (849, 54390), (868, 54426), (890, 54468), (953, 54579), (963, 54597), (975, 54624), (985, 54651), (1013, 54726), (1021, 54753), (1047, 54819), (1058, 54834), (1060, 54843), (1061, 54846), (1073, 54873), (1076, 54879), (1105, 54930), (1117, 54951), (1123, 54966),

Gene: Wardwill_42 Start: 29255, Stop: 27828, Start Num: 360
Candidate Starts for Wardwill_42:
(Start: 360 @29255 has 155 MA's), (380, 29225), (384, 29219), (448, 29105), (449, 29102), (450, 29099), (562, 28865), (563, 28862), (686, 28607), (693, 28583), (717, 28556), (721, 28550), (743,

28502), (763, 28469), (836, 28355), (840, 28346), (862, 28301), (865, 28295), (882, 28268), (932, 28196), (973, 28124), (989, 28088), (993, 28079), (999, 28064), (1000, 28058), (1007, 28040), (1019, 27998), (1048, 27935), (1081, 27863),

Gene: WaterT_90 Start: 50077, Stop: 48617, Start Num: 225
Candidate Starts for WaterT_90:
(Start: 225 @50077 has 5 MA's), (241, 50047), (325, 49933), (390, 49849), (455, 49723), (465, 49699), (514, 49621), (519, 49609), (522, 49603), (525, 49597), (533, 49582), (541, 49561), (580, 49486), (591, 49468), (637, 49372), (640, 49363), (691, 49258), (717, 49228), (719, 49225), (725, 49219), (732, 49207), (733, 49204), (763, 49144), (767, 49135), (842, 49045), (897, 48991), (920, 48955), (979, 48874), (980, 48871), (986, 48868), (991, 48859), (1018, 48781), (1020, 48775), (1053, 48697), (1063, 48676), (1075, 48649), (1077, 48646), (1084, 48634),

Gene: Wawa_29 Start: 22126, Stop: 23526, Start Num: 333
Candidate Starts for Wawa_29:
(Start: 333 @22126 has 73 MA's), (381, 22189), (448, 22294), (449, 22297), (484, 22381), (512, 22414), (540, 22465), (544, 22471), (582, 22552), (584, 22555), (588, 22561), (607, 22597), (616, 22615), (617, 22618), (634, 22651), (640, 22672), (646, 22690), (677, 22723), (730, 22804), (740, 22831), (758, 22861), (763, 22870), (778, 22897), (798, 22930), (804, 22945), (840, 22999), (849, 23020), (857, 23032), (863, 23044), (939, 23158), (990, 23266), (994, 23275), (997, 23281), (1009, 23317), (1030, 23377), (1038, 23404), (1084, 23494),

Gene: Wayne_29 Start: 22211, Stop: 23605, Start Num: 333
Candidate Starts for Wayne_29:
(Start: 333 @22211 has 73 MA's), (381, 22268), (448, 22373), (484, 22460), (540, 22544), (542, 22547), (544, 22550), (588, 22640), (607, 22676), (612, 22685), (616, 22694), (640, 22751), (646, 22769), (677, 22802), (686, 22814), (730, 22883), (740, 22910), (753, 22934), (778, 22976), (798, 23009), (804, 23024), (814, 23033), (863, 23123), (908, 23192), (926, 23219), (939, 23237), (944, 23249), (988, 23339), (990, 23345), (994, 23354), (997, 23360), (1009, 23396), (1038, 23483), (1065, 23534), (1084, 23573), (1094, 23597),

Gene: Weiss13_66 Start: 47645, Stop: 49405, Start Num: 188
Candidate Starts for Weiss13_66:
(Start: 188 @47645 has 10 MA's), (Start: 232 @47714 has 1 MA's), (292, 47810), (300, 47819), (348, 47900), (378, 47945), (506, 48146), (530, 48194), (561, 48254), (565, 48266), (596, 48332), (655, 48455), (668, 48479), (679, 48503), (731, 48707), (745, 48740), (751, 48755), (778, 48794), (780, 48797), (784, 48806), (842, 48875), (933, 49007), (989, 49130), (990, 49133), (1000, 49160), (1010, 49190), (1012, 49196), (1013, 49199), (1018, 49217), (1022, 49229), (1083, 49364), (1098, 49394),

Gene: Welcome_86 Start: 50242, Stop: 48722, Start Num: 250
Candidate Starts for Welcome_86:
(230, 50275), (Start: 250 @50242 has 29 MA's), (281, 50191), (375, 50083), (419, 50017), (449, 49951), (523, 49813), (552, 49756), (566, 49723), (568, 49720), (598, 49657), (622, 49606), (626, 49597), (631, 49588), (634, 49582), (641, 49558), (652, 49534), (673, 49495), (681, 49480), (713, 49429), (767, 49318), (784, 49291), (814, 49246), (995, 48952), (1005, 48922), (1020, 48877), (1040, 48826), (1061, 48781), (1070, 48763),

Gene: Wentworth_70 Start: 50269, Stop: 48383, Start Num: 49
Candidate Starts for Wentworth_70:
(27, 50335), (31, 50326), (39, 50305), (48, 50272), (Start: 49 @50269 has 8 MA's), (Start: 58 @50254 has 39 MA's), (83, 50191), (89, 50182), (96, 50170), (111, 50122), (Start: 126 @50089 has 9 MA's), (137, 50077), (Start: 144 @50056 has 3 MA's), (161, 50014), (202, 49939), (Start: 222 @49915 has 29 MA's), (341, 49717), (348, 49708), (378, 49663), (418, 49600), (470, 49492), (509, 49444), (562,

49339), (586, 49288), (616, 49228), (666, 49141), (668, 49138), (745, 49033), (748, 49024), (755, 49012), (815, 48913), (918, 48796), (926, 48784), (943, 48757), (946, 48751), (990, 48667), (1013, 48598), (1031, 48541), (1038, 48523), (1066, 48469), (1092, 48415),

Gene: WestPM_37 Start: 29337, Stop: 27952, Start Num: 352
Candidate Starts for WestPM_37:
(Start: 352 @29337 has 2 MA's), (474, 29124), (503, 29061), (515, 29040), (562, 28947), (563, 28944), (574, 28923), (583, 28902), (634, 28806), (686, 28692), (693, 28668), (721, 28635), (733, 28611), (738, 28599), (743, 28587), (748, 28575), (750, 28572), (763, 28554), (811, 28512), (836, 28479), (841, 28467), (847, 28455), (887, 28383), (989, 28212), (993, 28203), (999, 28188), (1000, 28182), (1002, 28176), (1045, 28068), (1048, 28059), (1061, 28029), (1076, 27996), (1081, 27987),

Gene: Wheelbite_90 Start: 54992, Stop: 56656, Start Num: 287
Candidate Starts for Wheelbite_90:
(Start: 287 @54992 has 9 MA's), (325, 55055), (332, 55064), (391, 55151), (423, 55196), (478, 55316), (526, 55409), (537, 55433), (542, 55445), (566, 55499), (588, 55550), (604, 55586), (617, 55613), (628, 55634), (631, 55640), (645, 55682), (712, 55799), (748, 55877), (759, 55895), (786, 55946), (804, 55979), (827, 56012), (854, 56069), (868, 56096), (890, 56138), (939, 56219), (953, 56249), (963, 56267), (975, 56294), (985, 56321), (1013, 56396), (1021, 56423), (1026, 56435), (1058, 56504), (1059, 56510), (1060, 56513), (1061, 56516), (1073, 56543), (1076, 56549), (1095, 56585), (1105, 56600), (1114, 56615), (1123, 56636),

Gene: Wheezy_72 Start: 55632, Stop: 53704, Start Num: 80
Candidate Starts for Wheezy_72:
(8, 55974), (9, 55962), (11, 55944), (Start: 35 @55770 has 37 MA's), (Start: 80 @55632 has 2 MA's), (92, 55608), (178, 55404), (Start: 200 @55359 has 9 MA's), (271, 55251), (345, 55137), (348, 55134), (409, 55044), (411, 55041), (450, 54981), (538, 54843), (547, 54825), (561, 54801), (618, 54678), (668, 54573), (731, 54447), (755, 54393), (834, 54267), (842, 54258), (854, 54234), (903, 54162), (907, 54156), (925, 54126), (957, 54069), (989, 54009), (1011, 53946), (1041, 53865),

Gene: WhoseManz_71 Start: 52415, Stop: 50334, Start Num: 35
Candidate Starts for WhoseManz_71:
(9, 52607), (11, 52589), (18, 52514), (Start: 35 @52415 has 37 MA's), (271, 51896), (296, 51863), (309, 51842), (343, 51788), (345, 51782), (348, 51779), (409, 51689), (411, 51686), (450, 51626), (547, 51470), (618, 51323), (668, 51215), (679, 51191), (731, 51089), (755, 51035), (767, 51020), (814, 50939), (842, 50900), (886, 50837), (903, 50798), (907, 50792), (925, 50762), (989, 50645), (1011, 50582), (1031, 50519), (1041, 50501), (1080, 50417),

Gene: WildNOut_41 Start: 31117, Stop: 29729, Start Num: 360
Candidate Starts for WildNOut_41:
(Start: 49 @31768 has 8 MA's), (187, 31414), (220, 31339), (Start: 360 @31117 has 155 MA's), (445, 30973), (448, 30967), (449, 30964), (503, 30850), (518, 30823), (551, 30763), (562, 30736), (563, 30733), (611, 30637), (634, 30595), (721, 30424), (732, 30403), (743, 30376), (769, 30328), (836, 30268), (932, 30109), (966, 30055), (1000, 29971), (1002, 29965), (1007, 29953), (1045, 29857), (1068, 29803), (1070, 29800), (1081, 29776),

Gene: Wilkos_72 Start: 50432, Stop: 48546, Start Num: 49
Candidate Starts for Wilkos_72:
(25, 50525), (27, 50498), (31, 50489), (39, 50468), (48, 50435), (Start: 49 @50432 has 8 MA's), (Start: 58 @50417 has 39 MA's), (83, 50354), (89, 50345), (96, 50333), (111, 50285), (Start: 126 @50252 has 9 MA's), (137, 50240), (Start: 144 @50219 has 3 MA's), (161, 50177), (202, 50102), (265, 49994), (298, 49949), (341, 49880), (348, 49871), (418, 49763), (509, 49607), (553, 49523), (562, 49502), (586, 49451), (616, 49391), (668, 49301), (695, 49247), (745, 49196), (748, 49187), (755, 49175),

(778, 49142), (815, 49076), (926, 48947), (943, 48920), (946, 48914), (990, 48830), (1013, 48761), (1017, 48746), (1031, 48704), (1038, 48686), (1066, 48632), (1092, 48578),

Gene: WilliamStrong_40 Start: 30915, Stop: 29497, Start Num: 360
Candidate Starts for WilliamStrong_40:
(Start: 360 @30915 has 155 MA's), (364, 30909), (380, 30885), (Start: 430 @30807 has 1 MA's), (447, 30768), (448, 30765), (474, 30702), (497, 30651), (509, 30630), (518, 30612), (537, 30573), (562, 30525), (563, 30522), (565, 30519), (583, 30480), (607, 30429), (686, 30267), (715, 30219), (717, 30216), (721, 30210), (732, 30189), (748, 30150), (763, 30129), (836, 30015), (841, 30003), (862, 29961), (882, 29928), (887, 29919), (932, 29856), (989, 29748), (993, 29739), (999, 29724), (1000, 29718), (1002, 29712), (1007, 29700), (1058, 29577), (1061, 29565),

Gene: Willis_188 Start: 100918, Stop: 99056, Start Num: 119
Candidate Starts for Willis_188:
(Start: 119 @100918 has 185 MA's), (Start: 145 @100858 has 1 MA's), (Start: 182 @100789 has 1 MA's), (420, 100417), (443, 100375), (449, 100357), (506, 100273), (518, 100249), (530, 100225), (532, 100222), (555, 100177), (579, 100126), (595, 100096), (601, 100084), (661, 99955), (713, 99862), (717, 99856), (746, 99793), (748, 99787), (811, 99691), (814, 99685), (879, 99574), (921, 99502), (948, 99469), (951, 99460), (1004, 99340), (1010, 99322), (1047, 99223), (1048, 99220), (1058, 99199), (1083, 99145), (1107, 99109),

Gene: WinnieLou_41 Start: 25545, Stop: 27452, Start Num: 58
Candidate Starts for WinnieLou_41:
(17, 25371), (Start: 58 @25545 has 39 MA's), (83, 25608), (96, 25629), (115, 25683), (193, 25845), (202, 25860), (Start: 235 @25905 has 1 MA's), (341, 26079), (348, 26088), (409, 26178), (433, 26220), (440, 26235), (539, 26421), (593, 26529), (610, 26556), (616, 26568), (639, 26601), (731, 26730), (796, 26847), (990, 27159), (1010, 27219), (1044, 27309), (1058, 27339), (1074, 27381), (1102, 27432),

Gene: Winzigespinne_40 Start: 30802, Stop: 29414, Start Num: 360
Candidate Starts for Winzigespinne_40:
(220, 31024), (Start: 360 @30802 has 155 MA's), (445, 30658), (448, 30652), (449, 30649), (503, 30535), (518, 30508), (551, 30448), (562, 30421), (563, 30418), (611, 30322), (634, 30280), (721, 30109), (732, 30088), (738, 30073), (743, 30061), (769, 30013), (836, 29953), (887, 29857), (932, 29794), (966, 29740), (1000, 29656), (1002, 29650), (1007, 29638), (1033, 29563), (1068, 29488), (1070, 29485), (1081, 29461),

Gene: Woes_57 Start: 53248, Stop: 51707, Start Num: 194
Candidate Starts for Woes_57:
(102, 53467), (154, 53338), (192, 53251), (Start: 194 @53248 has 3 MA's), (Start: 294 @53119 has 29 MA's), (321, 53074), (380, 52984), (382, 52981), (386, 52975), (401, 52954), (444, 52891), (510, 52783), (520, 52765), (565, 52678), (572, 52663), (591, 52621), (640, 52540), (668, 52492), (688, 52450), (695, 52432), (697, 52429), (732, 52402), (755, 52351), (780, 52315), (810, 52264), (873, 52180), (886, 52159), (999, 52003), (1000, 51997), (1004, 51985), (1052, 51859), (1107, 51745),

Gene: Wojtek_56 Start: 39665, Stop: 41593, Start Num: 50
Candidate Starts for Wojtek_56:
(20, 39569), (21, 39578), (24, 39590), (Start: 37 @39620 has 1 MA's), (Start: 45 @39653 has 11 MA's), (Start: 50 @39665 has 13 MA's), (Start: 52 @39671 has 1 MA's), (Start: 58 @39689 has 39 MA's), (67, 39704), (75, 39737), (87, 39770), (90, 39773), (115, 39839), (150, 39911), (158, 39929), (168, 39947), (173, 39956), (178, 39965), (Start: 222 @40037 has 29 MA's), (296, 40157), (300, 40160), (335, 40220), (348, 40238), (399, 40310), (418, 40337), (509, 40472), (518, 40490), (538, 40532), (551, 40553), (554, 40559), (572, 40601), (581, 40622), (591, 40643), (610, 40679), (638, 40736), (642,

40748), (662, 40778), (666, 40787), (689, 40838), (745, 40934), (746, 40937), (832, 41048), (903, 41138), (918, 41165), (969, 41255), (1004, 41333), (1010, 41351), (1017, 41375), (1022, 41390), (1066, 41492), (1072, 41507), (1083, 41528),

Gene: Wolfstar_82 Start: 50847, Stop: 49330, Start Num: 253
Candidate Starts for Wolfstar_82:
(95, 51207), (230, 50889), (Start: 253 @50847 has 1 MA's), (363, 50703), (375, 50694), (435, 50598), (448, 50565), (482, 50484), (515, 50439), (517, 50436), (568, 50334), (626, 50211), (631, 50202), (660, 50136), (763, 49941), (766, 49935), (784, 49905), (787, 49899), (792, 49893), (903, 49722), (995, 49560), (1012, 49512), (1045, 49428), (1061, 49389), (1072, 49365),

Gene: Wollypog_43 Start: 30596, Stop: 32524, Start Num: 53
Candidate Starts for Wollypog_43:
(Start: 53 @30596 has 9 MA's), (66, 30620), (115, 30746), (140, 30794), (161, 30848), (195, 30911), (202, 30923), (271, 31034), (315, 31100), (318, 31106), (380, 31199), (401, 31229), (409, 31244), (412, 31250), (561, 31514), (581, 31562), (587, 31574), (610, 31619), (648, 31688), (661, 31709), (745, 31829), (784, 31895), (807, 31934), (869, 31997), (993, 32228), (1025, 32327), (1034, 32354), (1074, 32453), (1080, 32462),

Gene: WonderBoy_25 Start: 20548, Stop: 21942, Start Num: 333
Candidate Starts for WonderBoy_25:
(Start: 333 @20548 has 73 MA's), (381, 20605), (448, 20710), (484, 20797), (512, 20830), (540, 20881), (544, 20887), (582, 20968), (584, 20971), (588, 20977), (607, 21013), (616, 21031), (617, 21034), (634, 21067), (640, 21088), (730, 21220), (740, 21247), (763, 21286), (773, 21307), (778, 21313), (798, 21346), (804, 21361), (814, 21370), (840, 21415), (858, 21451), (888, 21493), (926, 21556), (939, 21574), (988, 21676), (989, 21679), (997, 21697), (998, 21700), (1007, 21724), (1009, 21733), (1038, 21820), (1084, 21910), (1094, 21934),

Gene: Worcestershire_58 Start: 51468, Stop: 49936, Start Num: 222
Candidate Starts for Worcestershire_58:
(102, 51723), (121, 51672), (142, 51621), (165, 51567), (181, 51537), (Start: 194 @51504 has 3 MA's), (201, 51495), (Start: 222 @51468 has 29 MA's), (321, 51300), (348, 51258), (380, 51210), (Start: 388 @51198 has 1 MA's), (396, 51186), (401, 51180), (412, 51159), (435, 51132), (520, 50991), (565, 50904), (572, 50889), (578, 50877), (591, 50847), (617, 50796), (639, 50769), (668, 50718), (679, 50694), (688, 50676), (695, 50658), (697, 50655), (732, 50628), (750, 50586), (780, 50541), (873, 50406), (883, 50391), (894, 50370), (972, 50289), (974, 50286), (999, 50229), (1000, 50223), (1002, 50217), (1004, 50211), (1030, 50136), (1047, 50097), (1052, 50085), (1054, 50082), (1097, 49989), (1107, 49974), (1119, 49953),

Gene: Xebius_40 Start: 30931, Stop: 29519, Start Num: 360
Candidate Starts for Xebius_40:
(Start: 360 @30931 has 155 MA's), (384, 30901), (Start: 388 @30895 has 1 MA's), (411, 30862), (503, 30670), (518, 30643), (551, 30583), (562, 30556), (563, 30553), (583, 30511), (611, 30457), (634, 30415), (686, 30301), (721, 30244), (732, 30223), (738, 30208), (743, 30196), (748, 30184), (750, 30181), (763, 30163), (809, 30082), (836, 30046), (862, 29992), (887, 29950), (907, 29920), (923, 29896), (930, 29890), (958, 29848), (989, 29779), (999, 29755), (1000, 29749), (1002, 29743), (1007, 29731), (1045, 29635), (1048, 29626), (1058, 29608), (1061, 29596), (1083, 29551),

Gene: Xenia2_58 Start: 39008, Stop: 40912, Start Num: 58
Candidate Starts for Xenia2_58:
(Start: 50 @38990 has 13 MA's), (Start: 51 @38993 has 50 MA's), (Start: 58 @39008 has 39 MA's), (75, 39056), (87, 39089), (90, 39092), (173, 39275), (178, 39284), (Start: 222 @39356 has 29 MA's), (229, 39371), (237, 39380), (300, 39479), (335, 39539), (466, 39752), (506, 39785), (554, 39878),

(561, 39893), (572, 39920), (581, 39941), (638, 40055), (662, 40097), (666, 40106), (686, 40145), (689, 40157), (720, 40202), (727, 40208), (745, 40253), (751, 40268), (829, 40361), (903, 40454), (989, 40607), (1004, 40649), (1010, 40667), (1011, 40670), (1066, 40808), (1083, 40844), (1114, 40898),

Gene: Yappy_96 Start: 49042, Stop: 47645, Start Num: 240
Candidate Starts for Yappy_96:
(Start: 240 @49042 has 1 MA's), (311, 48952), (320, 48940), (336, 48919), (377, 48868), (419, 48811), (425, 48805), (465, 48712), (472, 48700), (504, 48649), (527, 48604), (536, 48586), (566, 48526), (615, 48439), (629, 48412), (664, 48346), (743, 48232), (760, 48202), (773, 48175), (783, 48166), (807, 48142), (814, 48130), (842, 48097), (843, 48094), (869, 48076), (897, 48046), (912, 48022), (922, 48007), (968, 47932), (980, 47899), (1005, 47848), (1013, 47827), (1027, 47785), (1040, 47752), (1071, 47686), (1081, 47665),

Gene: Yara_66 Start: 49125, Stop: 47230, Start Num: 49
Candidate Starts for Yara_66:
(Start: 49 @49125 has 8 MA's), (55, 49113), (Start: 58 @49110 has 39 MA's), (74, 49071), (83, 49047), (89, 49038), (96, 49026), (137, 48933), (161, 48870), (202, 48795), (Start: 222 @48771 has 29 MA's), (229, 48756), (298, 48645), (309, 48624), (341, 48576), (433, 48438), (543, 48240), (562, 48198), (586, 48147), (616, 48087), (618, 48081), (668, 47997), (745, 47892), (755, 47871), (768, 47853), (788, 47820), (815, 47772), (918, 47649), (926, 47637), (943, 47610), (990, 47520), (992, 47517), (1013, 47451), (1031, 47394), (1038, 47376), (1041, 47373), (1074, 47301), (1102, 47250),

Gene: Yassified_184 Start: 100059, Stop: 98197, Start Num: 119
Candidate Starts for Yassified_184:
(Start: 119 @100059 has 185 MA's), (Start: 145 @99999 has 1 MA's), (Start: 182 @99930 has 1 MA's), (420, 99558), (443, 99516), (449, 99498), (506, 99414), (518, 99390), (530, 99366), (532, 99363), (555, 99318), (579, 99267), (595, 99237), (601, 99225), (661, 99096), (713, 99003), (717, 98997), (746, 98934), (748, 98928), (811, 98832), (814, 98826), (879, 98715), (921, 98643), (948, 98610), (951, 98601), (1004, 98481), (1010, 98463), (1047, 98364), (1048, 98361), (1058, 98340), (1083, 98286), (1107, 98250),

Gene: Yeezus_70 Start: 47415, Stop: 46021, Start Num: 252
Candidate Starts for Yeezus_70:
(Start: 252 @47415 has 13 MA's), (311, 47346), (363, 47271), (381, 47253), (403, 47223), (447, 47142), (602, 46848), (622, 46809), (677, 46695), (743, 46623), (760, 46593), (767, 46578), (773, 46566), (824, 46515), (875, 46464), (892, 46446), (897, 46437), (927, 46389), (1005, 46239), (1084, 46050),

Gene: Yelo_65 Start: 48022, Stop: 49782, Start Num: 188
Candidate Starts for Yelo_65:
(Start: 188 @48022 has 10 MA's), (Start: 232 @48091 has 1 MA's), (292, 48187), (300, 48196), (348, 48277), (378, 48322), (506, 48523), (530, 48571), (561, 48631), (565, 48643), (596, 48709), (655, 48832), (668, 48856), (679, 48880), (731, 49084), (745, 49117), (751, 49132), (778, 49171), (780, 49174), (784, 49183), (842, 49252), (933, 49384), (989, 49507), (990, 49510), (1000, 49537), (1010, 49567), (1012, 49573), (1013, 49576), (1018, 49594), (1022, 49606), (1083, 49741), (1098, 49771),

Gene: YemiJoy2021_188 Start: 101674, Stop: 99812, Start Num: 119
Candidate Starts for YemiJoy2021_188:
(Start: 119 @101674 has 185 MA's), (Start: 145 @101614 has 1 MA's), (Start: 182 @101545 has 1 MA's), (420, 101173), (443, 101131), (449, 101113), (506, 101029), (518, 101005), (530, 100981), (532, 100978), (555, 100933), (579, 100882), (595, 100852), (601, 100840), (661, 100711), (713, 100618), (717, 100612), (746, 100549), (748, 100543), (811, 100447), (814, 100441), (879, 100330),

(921, 100258), (948, 100225), (951, 100216), (1004, 100096), (1010, 100078), (1047, 99979), (1048, 99976), (1058, 99955), (1083, 99901), (1107, 99865),

Gene: Yikes_62 Start: 41734, Stop: 43647, Start Num: 51
Candidate Starts for Yikes_62:
(20, 41608), (21, 41617), (24, 41629), (28, 41662), (Start: 45 @41719 has 11 MA's), (Start: 50 @41731 has 13 MA's), (Start: 51 @41734 has 50 MA's), (Start: 58 @41746 has 39 MA's), (75, 41794), (87, 41827), (115, 41896), (158, 41986), (173, 42013), (178, 42022), (Start: 222 @42094 has 29 MA's), (296, 42214), (335, 42277), (399, 42367), (418, 42394), (506, 42523), (518, 42547), (538, 42589), (562, 42637), (572, 42658), (581, 42679), (610, 42736), (638, 42790), (662, 42832), (689, 42892), (745, 42988), (746, 42991), (881, 43168), (918, 43219), (969, 43309), (989, 43345), (992, 43351), (1010, 43405), (1022, 43444), (1066, 43546), (1072, 43561), (1083, 43582),

Gene: Yndexa_71 Start: 54175, Stop: 52319, Start Num: 112
Candidate Starts for Yndexa_71:
(9, 54592), (11, 54574), (18, 54499), (Start: 35 @54400 has 37 MA's), (Start: 112 @54175 has 3 MA's), (271, 53881), (296, 53848), (309, 53827), (343, 53773), (345, 53767), (348, 53764), (409, 53674), (411, 53671), (450, 53611), (547, 53455), (618, 53308), (668, 53200), (679, 53176), (731, 53074), (755, 53020), (767, 53005), (814, 52924), (842, 52885), (886, 52822), (903, 52783), (907, 52777), (925, 52747), (989, 52630), (1011, 52567), (1031, 52504), (1041, 52486), (1080, 52402),

Gene: YoungMoneyMata_187 Start: 100702, Stop: 98840, Start Num: 119
Candidate Starts for YoungMoneyMata_187:
(Start: 119 @100702 has 185 MA's), (Start: 145 @100642 has 1 MA's), (Start: 182 @100573 has 1 MA's), (420, 100201), (443, 100159), (449, 100141), (506, 100057), (518, 100033), (530, 100009), (532, 100006), (555, 99961), (579, 99910), (595, 99880), (601, 99868), (661, 99739), (713, 99646), (717, 99640), (746, 99577), (748, 99571), (811, 99475), (814, 99469), (879, 99358), (921, 99286), (948, 99253), (951, 99244), (1004, 99124), (1010, 99106), (1047, 99007), (1048, 99004), (1058, 98983), (1083, 98929), (1107, 98893),

Gene: Yucca_188 Start: 101665, Stop: 99803, Start Num: 119
Candidate Starts for Yucca_188:
(Start: 119 @101665 has 185 MA's), (Start: 145 @101605 has 1 MA's), (Start: 182 @101536 has 1 MA's), (420, 101164), (443, 101122), (449, 101104), (506, 101020), (518, 100996), (530, 100972), (532, 100969), (555, 100924), (579, 100873), (595, 100843), (601, 100831), (661, 100702), (713, 100609), (717, 100603), (746, 100540), (748, 100534), (811, 100438), (814, 100432), (879, 100321), (921, 100249), (948, 100216), (951, 100207), (1004, 100087), (1010, 100069), (1047, 99970), (1048, 99967), (1058, 99946), (1083, 99892), (1107, 99856),

Gene: Yuma_83 Start: 49751, Stop: 48231, Start Num: 250
Candidate Starts for Yuma_83:
(230, 49784), (Start: 250 @49751 has 29 MA's), (281, 49700), (375, 49592), (419, 49526), (449, 49460), (515, 49337), (523, 49322), (552, 49265), (566, 49232), (568, 49229), (598, 49166), (622, 49115), (626, 49106), (631, 49097), (652, 49043), (673, 49004), (681, 48989), (726, 48920), (737, 48890), (767, 48827), (814, 48755), (938, 48569), (995, 48461), (1005, 48431), (1020, 48386), (1040, 48335), (1070, 48272),

Gene: YuuY_40 Start: 31212, Stop: 29842, Start Num: 360
Candidate Starts for YuuY_40:
(Start: 360 @31212 has 155 MA's), (411, 31143), (450, 31062), (503, 30951), (518, 30924), (551, 30864), (562, 30837), (563, 30834), (611, 30738), (686, 30582), (721, 30525), (732, 30504), (738, 30489), (743, 30477), (748, 30465), (754, 30456), (763, 30444), (769, 30429), (809, 30405), (836, 30369), (840, 30360), (862, 30315), (887, 30273), (932, 30210), (944, 30198), (958, 30171), (989,

30102), (993, 30093), (999, 30078), (1000, 30072), (1002, 30066), (1007, 30054), (1045, 29958), (1048, 29949), (1058, 29931), (1061, 29919),

Gene: Zada_42 Start: 31090, Stop: 29702, Start Num: 360
Candidate Starts for Zada_42:
(187, 31387), (220, 31312), (Start: 360 @31090 has 155 MA's), (445, 30946), (448, 30940), (449, 30937), (503, 30823), (518, 30796), (551, 30736), (562, 30709), (563, 30706), (611, 30610), (634, 30568), (684, 30457), (721, 30397), (738, 30361), (743, 30349), (769, 30301), (836, 30241), (887, 30145), (932, 30082), (966, 30028), (1000, 29944), (1002, 29938), (1007, 29926), (1045, 29830), (1068, 29776), (1070, 29773), (1081, 29749),

Gene: Zalkecks_187 Start: 100747, Stop: 98885, Start Num: 119
Candidate Starts for Zalkecks_187:
(Start: 119 @100747 has 185 MA's), (Start: 145 @100687 has 1 MA's), (Start: 182 @100618 has 1 MA's), (420, 100246), (443, 100204), (449, 100186), (506, 100102), (518, 100078), (530, 100054), (532, 100051), (555, 100006), (579, 99955), (595, 99925), (601, 99913), (661, 99784), (713, 99691), (717, 99685), (746, 99622), (748, 99616), (811, 99520), (814, 99514), (879, 99403), (921, 99331), (948, 99298), (951, 99289), (1004, 99169), (1010, 99151), (1047, 99052), (1048, 99049), (1058, 99028), (1083, 98974), (1107, 98938),

Gene: Zanella_33 Start: 23260, Stop: 24687, Start Num: 339
Candidate Starts for Zanella_33:
(314, 23218), (Start: 339 @23260 has 21 MA's), (524, 23578), (599, 23725), (607, 23746), (749, 24013), (778, 24061), (791, 24082), (827, 24139), (842, 24172), (860, 24208), (914, 24286), (926, 24307), (973, 24388), (975, 24391), (1009, 24478), (1013, 24490), (1026, 24529), (1038, 24565), (1042, 24571), (1044, 24574), (1047, 24583), (1078, 24646),

Gene: Zany_58 Start: 41140, Stop: 43056, Start Num: 50
Candidate Starts for Zany_58:
(Start: 50 @41140 has 13 MA's), (Start: 51 @41143 has 50 MA's), (Start: 58 @41155 has 39 MA's), (75, 41203), (87, 41236), (115, 41305), (158, 41395), (173, 41422), (178, 41431), (Start: 222 @41503 has 29 MA's), (296, 41623), (335, 41686), (355, 41713), (399, 41776), (418, 41803), (506, 41932), (518, 41956), (538, 41998), (562, 42046), (572, 42067), (581, 42088), (610, 42145), (638, 42199), (662, 42241), (689, 42301), (745, 42397), (746, 42400), (918, 42628), (969, 42718), (989, 42754), (992, 42760), (1010, 42814), (1022, 42853), (1066, 42955), (1072, 42970), (1083, 42991),

Gene: Zayuliv_40 Start: 29694, Stop: 28267, Start Num: 360
Candidate Starts for Zayuliv_40:
(Start: 360 @29694 has 155 MA's), (380, 29664), (384, 29658), (448, 29544), (449, 29541), (450, 29538), (562, 29304), (563, 29301), (686, 29046), (717, 28995), (721, 28989), (743, 28941), (763, 28908), (836, 28794), (840, 28785), (862, 28740), (865, 28734), (882, 28707), (932, 28635), (973, 28563), (989, 28527), (993, 28518), (999, 28503), (1000, 28497), (1007, 28479), (1019, 28437), (1048, 28374), (1081, 28302),

Gene: Zeenon_190 Start: 101317, Stop: 99455, Start Num: 119
Candidate Starts for Zeenon_190:
(Start: 119 @101317 has 185 MA's), (Start: 145 @101257 has 1 MA's), (Start: 182 @101188 has 1 MA's), (420, 100816), (443, 100774), (449, 100756), (506, 100672), (518, 100648), (530, 100624), (532, 100621), (555, 100576), (579, 100525), (595, 100495), (601, 100483), (661, 100354), (713, 100261), (717, 100255), (746, 100192), (748, 100186), (811, 100090), (814, 100084), (879, 99973), (921, 99901), (948, 99868), (951, 99859), (1004, 99739), (1010, 99721), (1047, 99622), (1048, 99619), (1058, 99598), (1083, 99544), (1107, 99508),

Gene: Zenitsu_40 Start: 30973, Stop: 29561, Start Num: 360
Candidate Starts for Zenitsu_40:
(Start: 358 @30976 has 23 MA's), (Start: 360 @30973 has 155 MA's), (384, 30943), (Start: 388 @30937 has 1 MA's), (411, 30904), (503, 30712), (518, 30685), (551, 30625), (562, 30598), (563, 30595), (583, 30553), (611, 30499), (634, 30457), (686, 30343), (721, 30286), (732, 30265), (738, 30250), (743, 30238), (748, 30226), (750, 30223), (763, 30205), (809, 30124), (836, 30088), (862, 30034), (887, 29992), (907, 29962), (917, 29947), (923, 29938), (930, 29932), (958, 29890), (989, 29821), (999, 29797), (1000, 29791), (1002, 29785), (1007, 29773), (1045, 29677), (1048, 29668), (1058, 29650), (1061, 29638), (1065, 29632), (1083, 29593),

Gene: Zenon_68 Start: 47968, Stop: 49728, Start Num: 188
Candidate Starts for Zenon_68:
(Start: 188 @47968 has 10 MA's), (Start: 232 @48037 has 1 MA's), (292, 48133), (300, 48142), (348, 48223), (378, 48268), (506, 48469), (530, 48517), (561, 48577), (565, 48589), (596, 48655), (655, 48778), (668, 48802), (679, 48826), (731, 49030), (745, 49063), (751, 49078), (778, 49117), (780, 49120), (784, 49129), (842, 49198), (933, 49330), (989, 49453), (990, 49456), (1000, 49483), (1010, 49513), (1012, 49519), (1013, 49522), (1018, 49540), (1022, 49552), (1083, 49687), (1098, 49717),

Gene: Zepp_40 Start: 29128, Stop: 27701, Start Num: 360
Candidate Starts for Zepp_40:
(Start: 360 @29128 has 155 MA's), (380, 29098), (384, 29092), (448, 28978), (449, 28975), (544, 28774), (562, 28738), (563, 28735), (686, 28480), (717, 28429), (721, 28423), (743, 28375), (748, 28363), (763, 28342), (814, 28255), (836, 28228), (840, 28219), (862, 28174), (882, 28141), (917, 28087), (932, 28069), (973, 27997), (989, 27961), (993, 27952), (999, 27937), (1000, 27931), (1007, 27913), (1048, 27808), (1081, 27736),

Gene: Zion_72 Start: 52509, Stop: 50584, Start Num: 65
Candidate Starts for Zion_72:
(33, 52602), (34, 52596), (Start: 65 @52509 has 8 MA's), (134, 52338), (155, 52284), (271, 52080), (375, 51924), (409, 51873), (411, 51870), (442, 51828), (508, 51741), (509, 51738), (543, 51666), (550, 51657), (729, 51306), (731, 51300), (745, 51267), (957, 50928), (992, 50862), (997, 50850), (1002, 50832), (1011, 50805), (1031, 50742), (1050, 50709), (1081, 50637),

Gene: Zooman_98 Start: 76212, Stop: 74272, Start Num: 64
Candidate Starts for Zooman_98:
(Start: 64 @76212 has 19 MA's), (109, 76086), (120, 76059), (164, 75966), (166, 75963), (224, 75891), (271, 75810), (286, 75786), (445, 75510), (578, 75225), (587, 75204), (637, 75114), (668, 75054), (671, 75045), (679, 75030), (729, 74988), (731, 74982), (745, 74949), (750, 74937), (755, 74928), (770, 74904), (807, 74844), (848, 74808), (909, 74712), (913, 74706), (949, 74643), (961, 74622), (965, 74616), (1000, 74541), (1002, 74535), (1009, 74514), (1030, 74454), (1048, 74412), (1058, 74388), (1061, 74376),

Gene: Zorro_29 Start: 22105, Stop: 23505, Start Num: 333
Candidate Starts for Zorro_29:
(Start: 333 @22105 has 73 MA's), (381, 22168), (448, 22273), (449, 22276), (484, 22360), (512, 22393), (540, 22444), (544, 22450), (582, 22531), (584, 22534), (588, 22540), (607, 22576), (616, 22594), (617, 22597), (634, 22630), (640, 22651), (677, 22702), (730, 22783), (740, 22810), (758, 22840), (763, 22849), (778, 22876), (798, 22909), (804, 22924), (840, 22978), (849, 22999), (857, 23011), (863, 23023), (990, 23245), (994, 23254), (997, 23260), (1009, 23296), (1030, 23356), (1038, 23383), (1084, 23473),

Gene: ZygoTaiga_184 Start: 101938, Stop: 100076, Start Num: 119
Candidate Starts for ZygoTaiga_184:

(Start: 119 @101938 has 185 MA's), (Start: 145 @101878 has 1 MA's), (Start: 182 @101809 has 1 MA's), (420, 101437), (443, 101395), (449, 101377), (506, 101293), (518, 101269), (530, 101245), (532, 101242), (555, 101197), (579, 101146), (595, 101116), (601, 101104), (661, 100975), (713, 100882), (717, 100876), (746, 100813), (748, 100807), (811, 100711), (814, 100705), (879, 100594), (921, 100522), (948, 100489), (951, 100480), (1004, 100360), (1010, 100342), (1047, 100243), (1048, 100240), (1058, 100219), (1083, 100165), (1107, 100129),