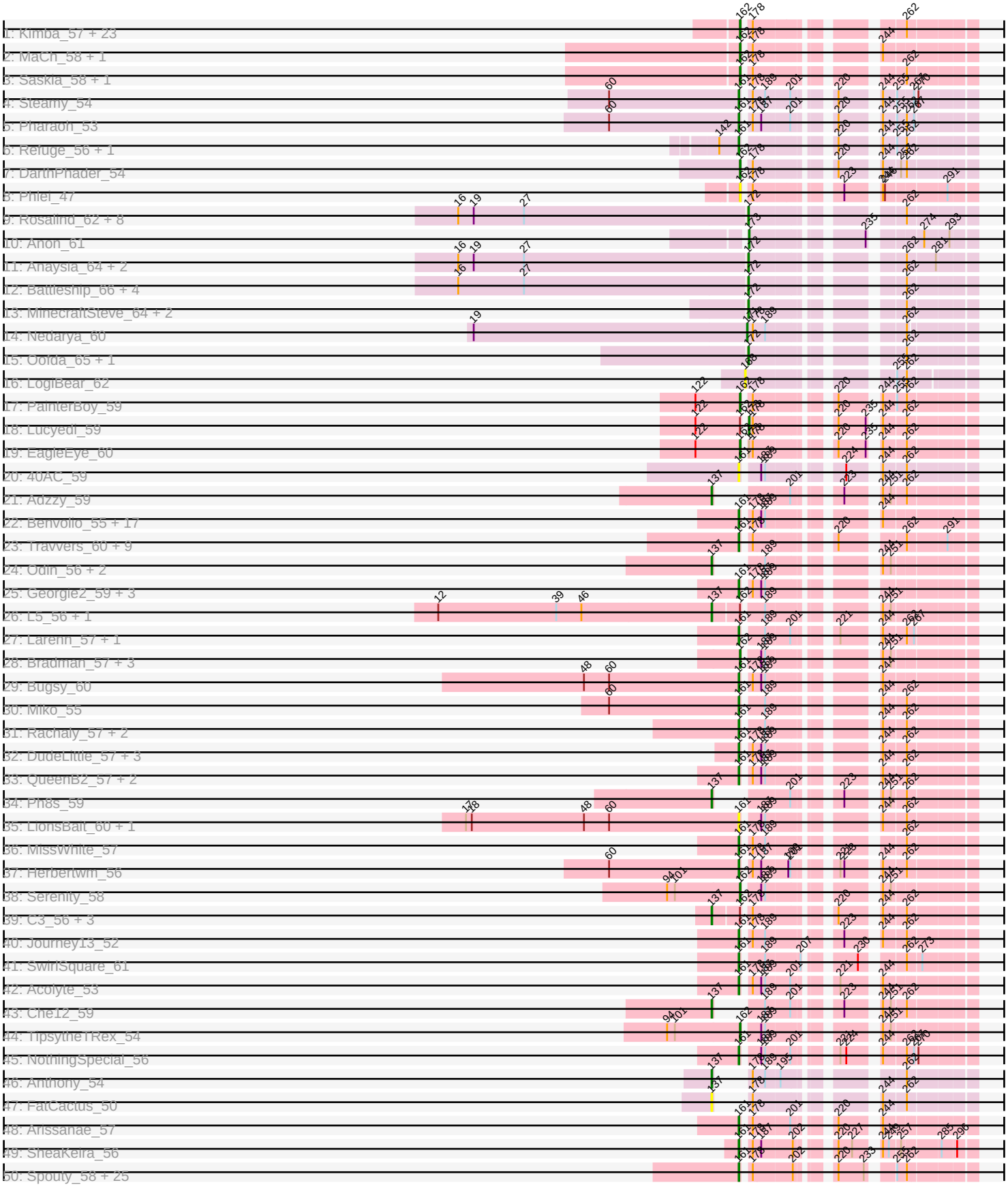
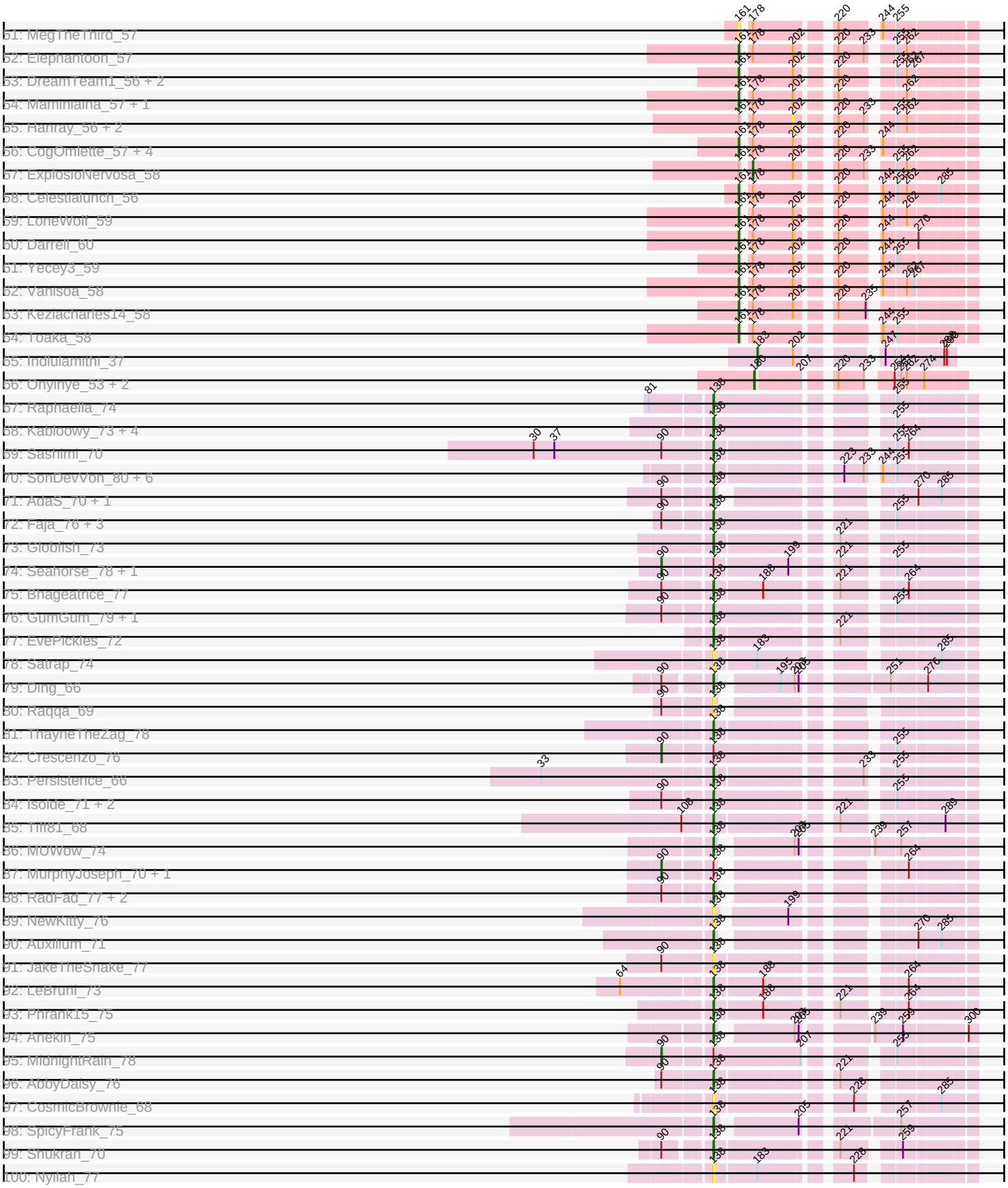
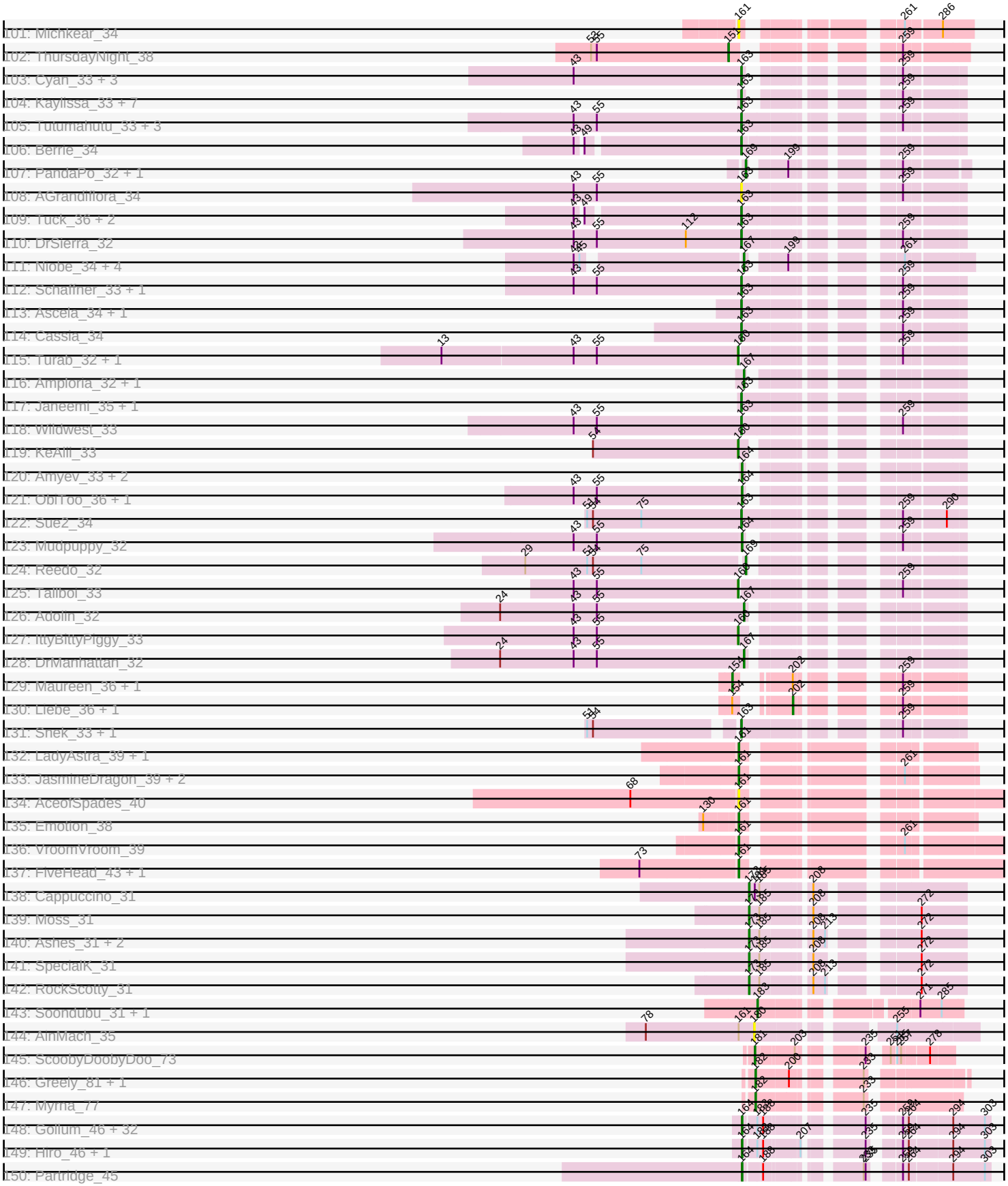
# Pham 330274


1: Kimba_57 + 23
2: MaCh_58 + 1
3: Saskia_58 + 1
4: Steamy_54
5: Pharaoh_53
6: Refuge_56 + 1
7: DarthPhader_54
8: Phiei_47
9: Rosalind_62 + 8
10: Anon_61
11: Anaysia_64 + 2
12: Battleship_66 + 4
13: MinecraftSteve_64 + 2
14: Nedarya_60
15: Oolda_65 + 1
16: LogiBear_62
17: PainterBoy_59
18: Lucyedi_59
19: EagleEye_60
20: 40AC_59
21: Adzzy_59
22: Benvolio_55 + 17
23: Travvers_60 + 9
24: Odin_56 + 2
25: Georgie2_59 + 3
26: L5_56 + 1
27: Larenn_57 + 1
28: Bradman_57 + 3
29: Bugsy_60
30: Miko_55
31: Rachaly_57 + 2
32: DudeLittle_57 + 3
33: QueenB2_57 + 2
34: Phbs_59
35: LionsBait_60 + 1
36: MissWhite_57
37: Herbertwm_56
38: Serenity_58
39: C3_56 + 3
40: Journey13_52
41: SwirlSquare_61
42: Acolyte_53
43: Che12_59
44: TipsytheTRex_54
45: NothingSpecial_56
46: Anthony_54
47: FatCactus_50
48: Anissanae_57
49: SheaKeira_56
50: Spouty_58 + 25

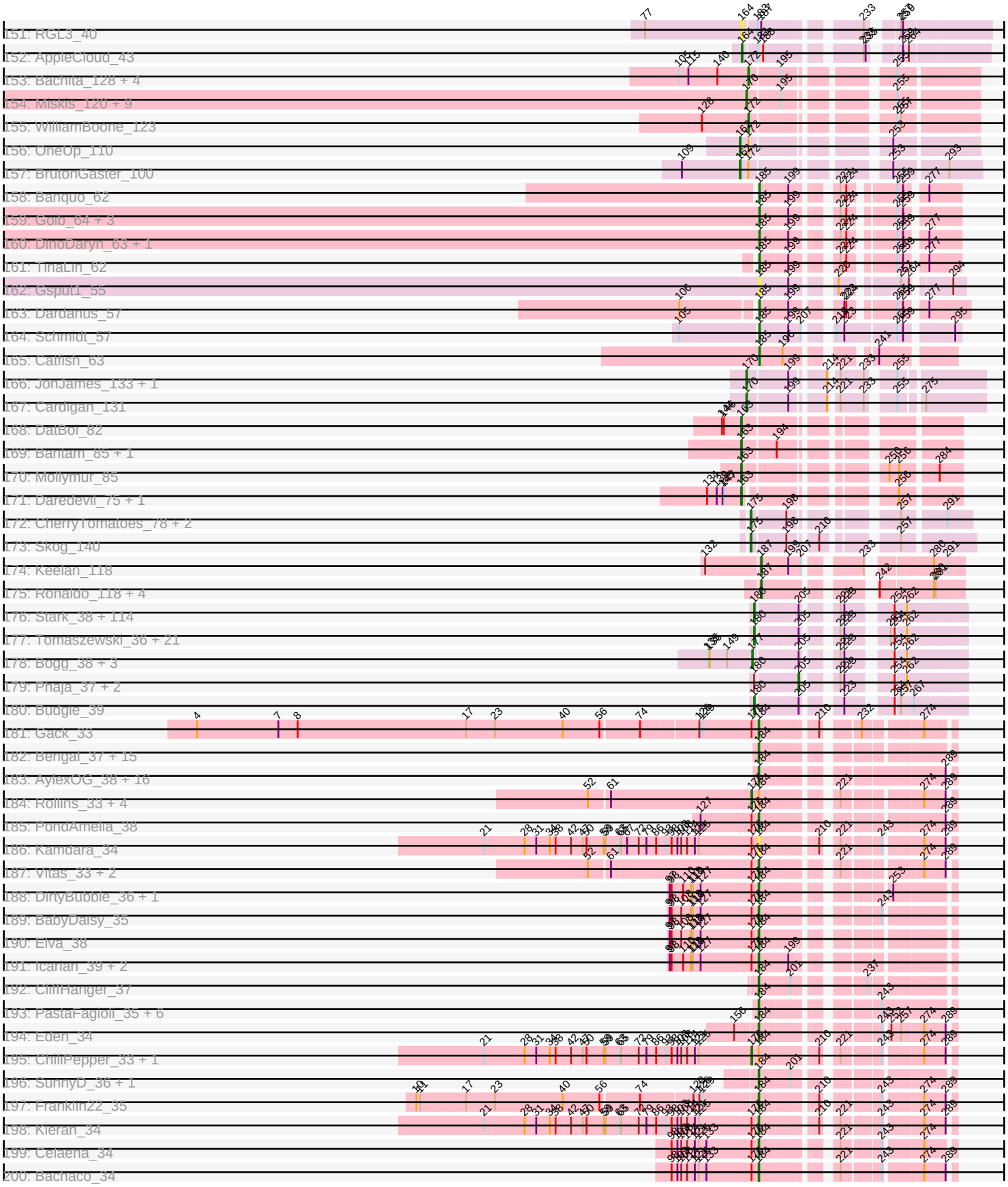
# Pham 330274


51: MegTheThird_57
52: Elephantoon_57
53: DreamTeam1_56 + 2
54: Mamihlapa_57 + 1
55: Hanray_56 + 2
56: CogOmlette_57 + 4
57: ExplosioNervosa_58
58: Celestialunch_56
59: LoneWolf_59
60: Darrell_60
61: Yecey3_59
62: Vanisoa_58
63: Kezlacharles14_58
64: Toaka_58
65: Indilamithi_37
66: Onyinye_53 + 2
67: Raphaella_74
68: Kabloowy_73 + 4
69: Sashimi_70
70: SonDeVVon_80 + 6
71: AdaS_70 + 1
72: Faja_76 + 3
73: Globlish_73
74: Seahorse_78 + 1
75: Bhageatrice_77
76: GumGum_79 + 1
77: EvePickles_72
78: Satrap_74
79: Ding_66
80: Raqqa_69
81: ThayneTheZag_78
82: Crescenzo_76
83: Persistence_66
84: Isolde_71 + 2
85: Tiff81_68
86: MOWow_74
87: MurphyJoseph_70 + 1
88: RadFad_77 + 2
89: NewKitty_76
90: Auxilium_71
91: JakeTheSnake_77
92: LeBrunl_73
93: Phrank15_75
94: Anekin_75
95: MidnightRain_78
96: AbbyDaisy_76
97: CosmicBrownie_68
98: SpicyFrank_75
99: Shukran_70
100: Nylah_77

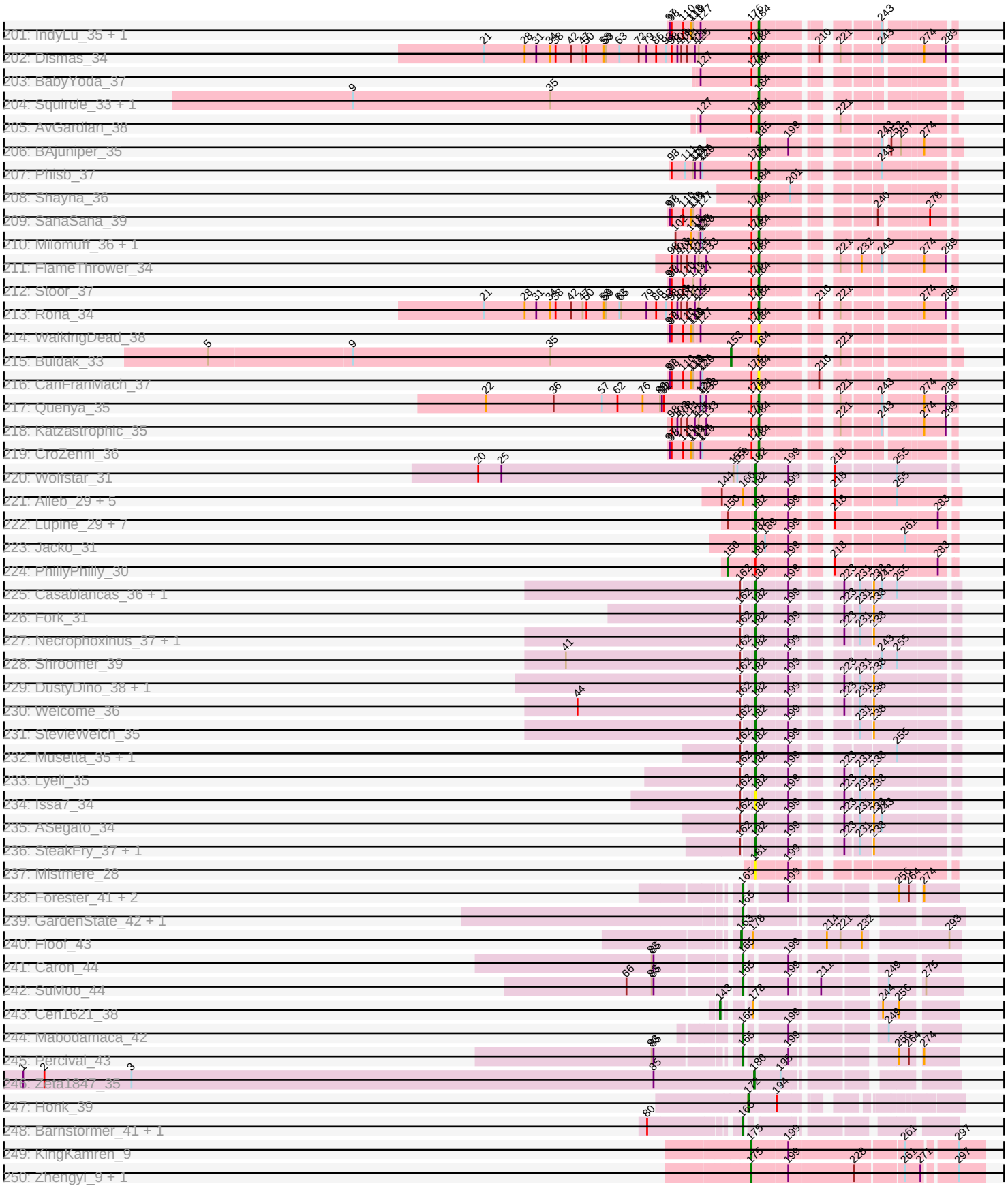
# Pham 330274


I01: Michkear_34
I02: ThursdayNight_38
I03: Cyan_33 + 3
I04: Kaylissa_33 + 7
I05: Tutumahutu_33 + 3
I06: Berrie_34
I07: PandaPo_32 + 1
I08: AGrandMora_34
I09: Tuck_36 + 2
I10: DrSierra_32
I11: Niobe_34 + 4
I12: Schaffner_33 + 1
I13: Ascela_34 + 1
I14: Cassia_34
I15: Turab_32 + 1
I16: Amphoria_32 + 1
I17: Janeemi_35 + 1
I18: Wildwest_33
I19: KeAlli_33
I20: Amyev_33 + 2
I21: ObiToo_36 + 1
I22: Sue2_34
I23: Mudpuppy_32
I24: Reedo_32
I25: Tallboi_33
I26: Adolin_32
I27: IttyBittyPiggy_33
I28: DrManhattan_32
I29: Maureen_36 + 1
I30: Liebe_36 + 1
I31: Snek_33 + 1
I32: LadyAstra_39 + 1
I33: JasmineDragon_39 + 2
I34: AceofSpades_40
I35: Emotion_38
I36: VroomVroom_39
I37: FiveHead_43 + 1
I38: Cappuccino_31
I39: Moss_31
I40: Ashes_31 + 2
I41: SpecialK_31
I42: RockScotty_31
I43: Soondubu_31 + 1
I44: AinMach_35
I45: ScoobyDoobyDoo_73
I46: Greely_81 + 1
I47: Myrna_77
I48: Gollum_46 + 32
I49: Hiro_46 + 1
I50: Partridge_45

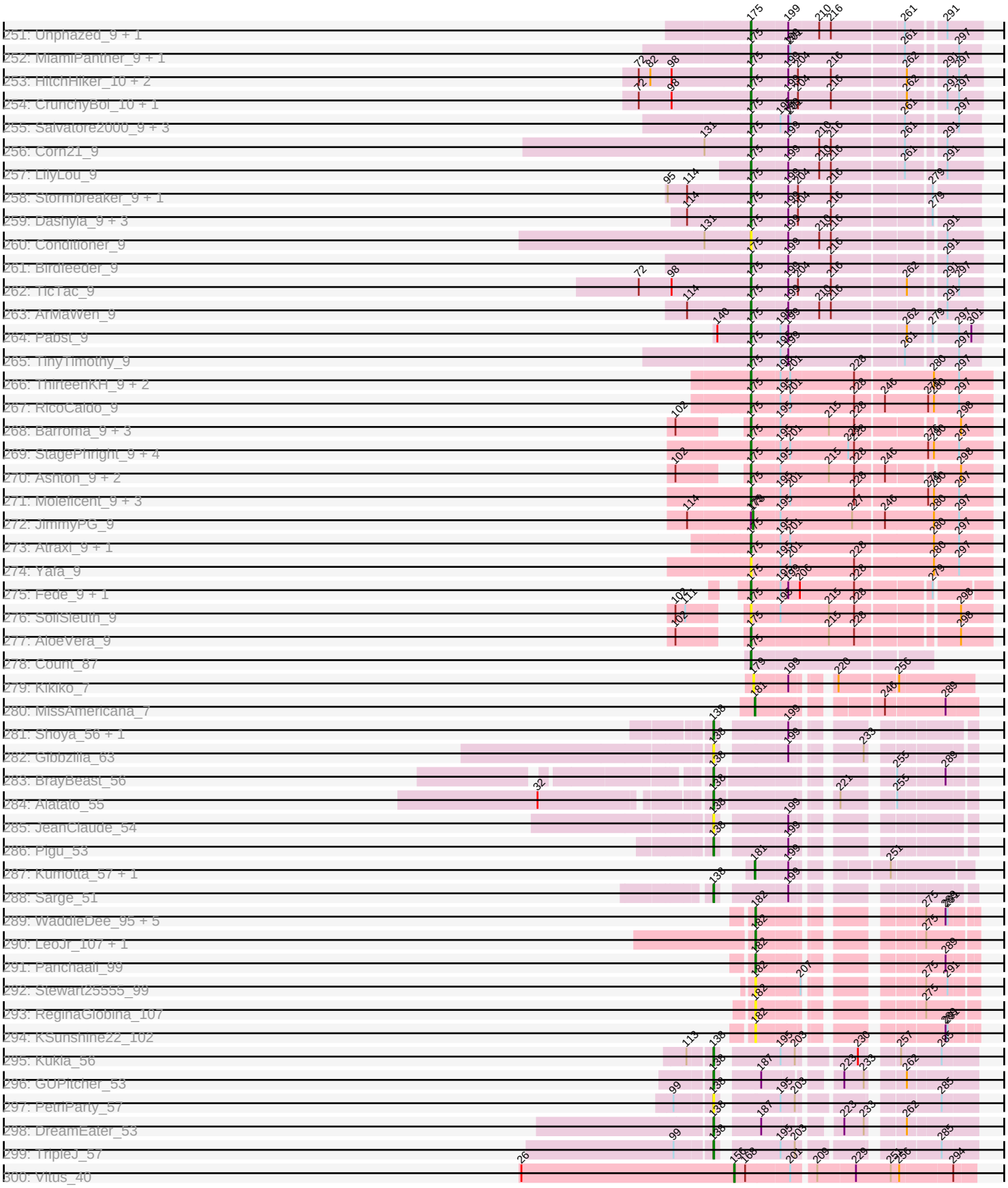
# Pham 330274


151: RGL3_40
152: AppleCloud_43
153: Bachita_128 + 4
154: Miskis_120 + 9
155: WilliamBoone_123
156: OneUp_110
157: BrutonGaster_100
158: Banquo_62
159: Golb_64 + 3
160: DinoDaryn_63 + 1
161: TinaLin_62
162: Gsput1_55
163: Dardanus_57
164: Schmidt_57
165: Catfish_63
166: JonJames_133 + 1
167: Cardigan_131
168: DatBoi_82
169: Bantam_85 + 1
170: Mollymur_85
171: Daredevil_75 + 1
172: CherryTomatoes_78 + 2
173: Skog_140
174: Keelan_118
175: Ronaldo_118 + 4
176: Stark_38 + 114
177: Tomaszewski_36 + 21
178: Bogg_38 + 3
179: Phaja_37 + 2
180: Budgie_39
181: Gack_33
182: Bengal_37 + 15
183: AylexOG_38 + 16
184: Rollins_33 + 4
185: PondAmelia_38
186: Kamdara_34
187: Vitas_33 + 2
188: DirtyBubble_36 + 1
189: BabyDaisy_35
190: Elva_38
191: Icarian_39 + 2
192: CliffHanger_37
193: PastaFagioli_35 + 6
194: Eden_34
195: ChiliPepper_33 + 1
196: SunnyD_36 + 1
197: Franklin22_35
198: Kieran_34
199: Celaena_34
200: Bachaco_34

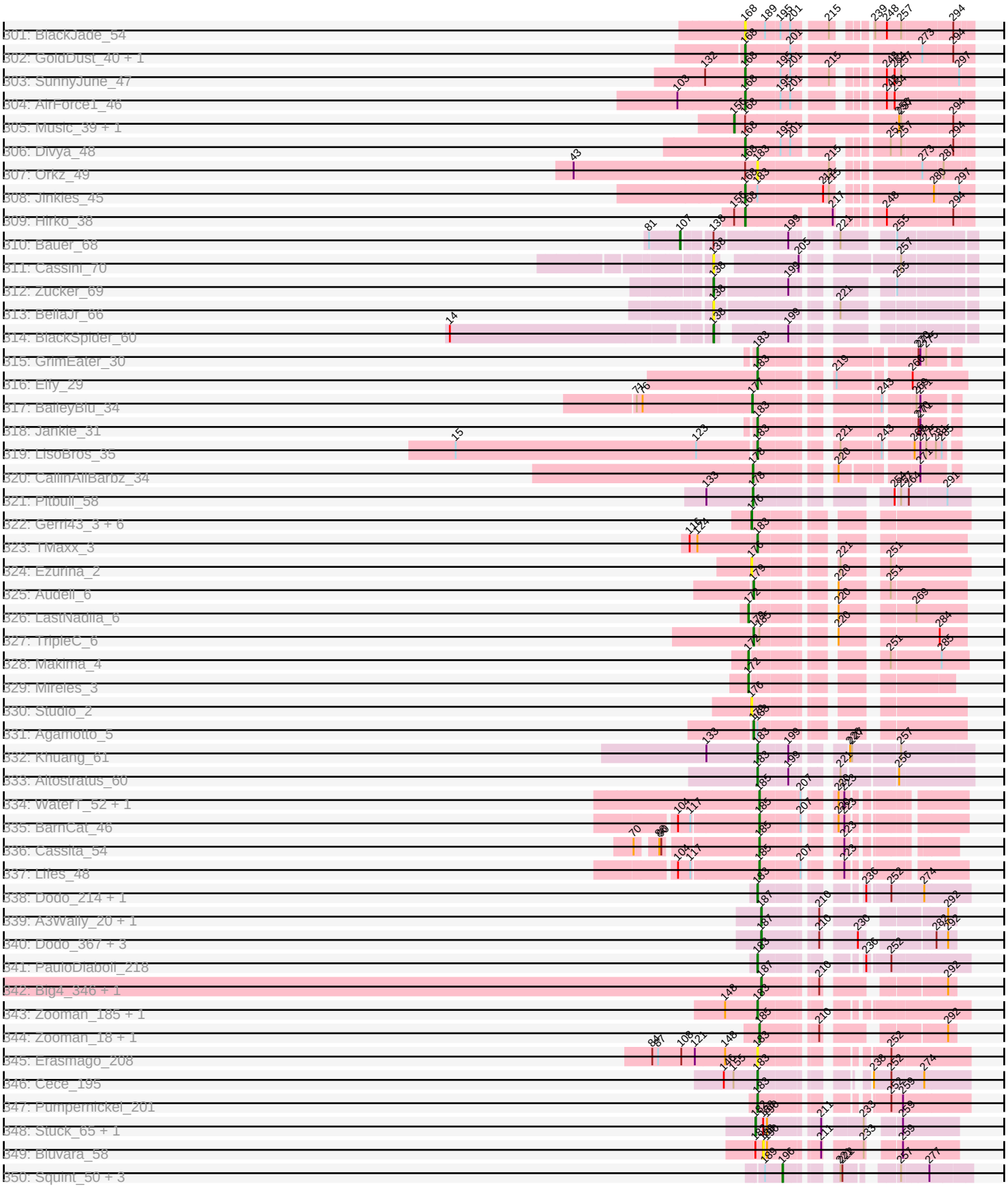
# Pham 330274


201: IndyLu_35 + 1
202: Dismas_34
203: BabyYoda_37
204: Squircle_33 + 1
205: AvGardian_38
206: BAjuniper_35
207: Phisb_37
208: Shayna_36
209: SanaSana_39
210: Milomuff_36 + 1
211: FlameThrower_34
212: Stoor_37
213: Rona_34
214: WalkingDead_38
215: Buldak_33
216: CanFranMach_37
217: Quenya_35
218: Katzastrophic_35
219: CroZenni_36
220: Wolfstar_31
221: Alleb_29 + 5
222: Lupine_29 + 7
223: Jacko_31
224: PhillyPhilly_30
225: Casablancas_36 + 1
226: Fork_31
227: Necrophoxinus_37 + 1
228: Shroomer_39
229: DustyDino_38 + 1
230: Welcome_36
231: StevieWelch_35
232: Musetta_35 + 1
233: Lyell_35
234: Issa7_34
235: ASegato_34
236: SteakFry_37 + 1
237: Mistmere_28
238: Forester_41 + 2
239: GardenState_42 + 1
240: Floof_43
241: Caron_44
242: SuMoo_44
243: Cen1621_38
244: Mabodamaca_42
245: Percival_43
246: Zeta1847_35
247: Honk_39
248: Barnstormer_41 + 1
249: KingKamren_9
250: Zhengyi_9 + 1

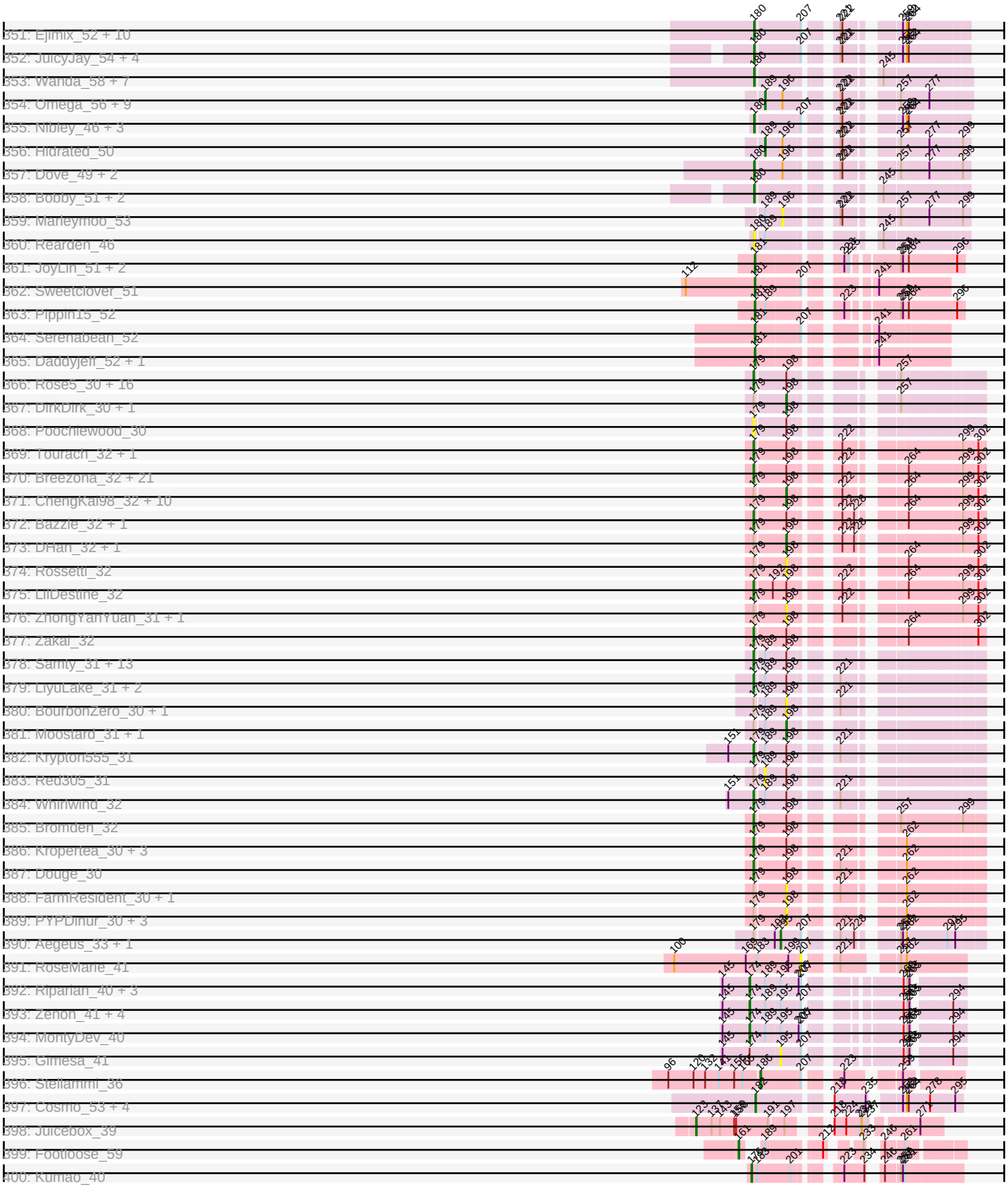
# Pham 330274


251: Unphazed_9 + 1
252: MiamiPanther_9 + 1
253: HitchHiker_10 + 2
254: CrunchyBoi_10 + 1
255: Salvatore2000_9 + 3
256: Corn21_9
257: LilyLou_9
258: Stormbreaker_9 + 1
259: Dashyla_9 + 3
260: Conditioner_9
261: Birdfeeder_9
262: TicTac_9
263: ArMaWen_9
264: Pabst_9
265: TinyTimothy_9
266: ThirteenKH_9 + 2
267: RicoCaldo_9
268: Barroma_9 + 3
269: StagePhright_9 + 4
270: Ashton_9 + 2
271: Molefficent_9 + 3
272: JimmyPG_9
273: Atraxi_9 + 1
274: Yafa_9
275: Fede_9 + 1
276: SoilSleuth_9
277: AloeVera_9
278: Count_87
279: Kikiko_7
280: MissAmericana_7
281: Shoya_56 + 1
282: Globzilla_63
283: BrayBeast_56
284: Alatato_55
285: JeanClaude_54
286: Pigu_53
287: Kumotta_57 + 1
288: Sarge_51
289: WaddleDee_95 + 5
290: LeoJr_107 + 1
291: Panchaali_99
292: Stewart25555_99
293: ReginaGlobina_107
294: KSunshine22_102
295: Kukla_56
296: GUPitcher_53
297: PetriParty_57
298: DreamEater_53
299: TripleJ_57
300: Vitus_40

# Pham 330274


301: BlackJade_54
302: GoldDust_40 + 1
303: SunnyJune_47
304: AirForce1_46
305: Music_39 + 1
306: Divya_48
307: Orkz_49
308: Jinkies_45
309: Hirko_38
310: Bauer_68
311: Cassini_70
312: Zucker_69
313: BellaJr_66
314: BlackSpider_60
315: GrimEater_30
316: Elly_29
317: BaileyBlu_34
318: Jankie_31
319: LisoBros_35
320: CallinAllBarbz_34
321: Pitbull_58
322: Gerri43_3 + 6
323: TMaxx_3
324: Ezurina_2
325: Audell_6
326: LastNadila_6
327: TripleC_6
328: Makima_4
329: Mireles_3
330: Studio_2
331: Agamotto_5
332: Khuang_61
333: Altostratus_60
334: WaterT_52 + 1
335: BarnCat_46
336: Cassita_54
337: Lifes_48
338: Dodo_214 + 1
339: A3Wally_20 + 1
340: Dodo_367 + 3
341: PaulioDiaboli_218
342: Big4_346 + 1
343: Zooman_185 + 1
344: Zooman_18 + 1
345: Erasmago_208
346: Cece_195
347: Pumpernickel_201
348: Stuck_65 + 1
349: Bluvara_58
350: Squint_50 + 3

# Pham 330274


351: Ejimix_52 + 10
352: JuicyJay_54 + 4
353: Wanda_58 + 7
354: Omega_56 + 9
355: Nibley_46 + 3
356: Hidrated_50
357: Dove_49 + 2
358: Bobby_51 + 2
359: Marleymoo_53
360: Rearden_46
361: JoyLin_51 + 2
362: Sweetclover_51
363: Pippin15_52
364: Serenabean_52
365: Daddyjeff_52 + 1
366: Rose5_30 + 16
367: DirkDirk_30 + 1
368: Poochiewood_30
369: Tourach_32 + 1
370: Breezona_32 + 21
371: ChengKai98_32 + 10
372: Bazzle_32 + 1
373: DHan_32 + 1
374: Rossetti_32
375: LilDestine_32
376: ZhongYanYuan_31 + 1
377: Zakai_32
378: Samty_31 + 13
379: LiyuLake_31 + 2
380: BourbonZero_30 + 1
381: Moostard_31 + 1
382: Krypton555_31
383: Red305_31
384: Whirlwind_32
385: Bromden_32
386: Kropertea_30 + 3
387: Douge_30
388: FarmResident_30 + 1
389: PYPDinur_30 + 3
390: Aegeus_33 + 1
391: RoseMarie_41
392: Riparian_40 + 3
393: Zenon_41 + 4
394: MontyDev_40
395: Gimesa_41
396: Stellammi_36
397: Cosmo_53 + 4
398: Juicebox_39
399: Footloose_59
400: Kumao_40

# Pham 330274

401: Yappy_50
402: BFK20_ORF53
403: DS6A_74
404: EmiRose_45
405: Yallonex_48
406: Mbo4_60
157
183
189
199
211
69
185
196
210
253
6
205
270

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 330274 Report

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

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

Pham number 330274 has 1049 members, 148 are drafts.

Phages represented in each track:
• Track 1 : Kimba_57, Bud_57, Mulciber_57, Hutc2_57, Jabith_58, Salz_56, Orange_57, Gilberta_58, Wolpertinger_56, Insomnia_58, TinyTimmy_57, Et2Brutus_56, Ebony_57, Flaverint_58, Fibonacci_57, Bowtie_58, Joselito_58, Sham4_57, Snape_57, Munch_58, Timothy_57, Aneem_58, Petersenfast_57, Lucivia_58
• Track 2 : MaCh_58, Bachome_59
• Track 3 : Saskia_58, Mabel_57
• Track 4 : Steamy_54
• Track 5 : Pharaoh_53
• Track 6 : Refuge_56, Zimmer_55
• Track 7 : DarthPhader_54
• Track 8 : Phlei_47
• Track 9 : Rosalind_62, Looper_63, LastResort_62, Strosahl_64, Waits_64, ReMo_62, JSwag_63, Remus_64, Epsocamisio_61
• Track 10 : Anon_61
• Track 11 : Anaysia_64, Boohoo_64, Nebulosus_62
• Track 12 : Battleship_66, DekHockey33_65, ShayRa_64, Switzerland_63, Soups_64
• Track 13 : MinecraftSteve_64, KatherineG_64, Ravana_66
• Track 14 : Nedarya_60
• Track 15 : Oofda_65, Warrior24_66
• Track 16 : LogiBear_62
• Track 17 : PainterBoy_59
• Track 18 : Lucyedi_59
• Track 19 : EagleEye_60
• Track 20 : 40AC_59
• Track 21 : Adzzy_59
• Track 22 : Benvolio_55, ChipMunk_60, FiringLine_58, Echild_58, Power_57, EvilGenius_60, Jerm_60, Dignity_60, Whabigail7_59, Leviathan_60, Agape74_60, Smeagan_61, SnapTap_58, KingCyrus_60, LilTurb_59, SemperFi_59, Crucio_58, QueenBeesly_58
• Track 23 : Travvers_60, Duplo_60, StarStuff_60, DBQu4n_60, Pomar16_60, D32_59, Naji_60, Kerberos_60, D29_56, Tomathan_60
• Track 24 : Odin_56, Caraxes_58, Superchunk_56

• Track 25 : Georgie2_59, AbbyPaige_60, SweetiePie_58, Turbido_59
• Track 26 : L5_56, Koduck_59
• Track 27 : Larenn_57, Malec_58
• Track 28 : Bradman_57, MajorMajor_57, Jsquared_56, Quokka_56
• Track 29 : Bugsy_60
• Track 30 : Miko_55
• Track 31 : Rachaly_57, BobSwaget_54, Lokk_55
• Track 32 : DudeLittle_57, Anselm_59, Dalmatian_59, Retro23_59
• Track 33 : QueenB2_57, Fameo_58, Heffalump_57
• Track 34 : Ph8s_59
• Track 35 : LionsBait_60, HippoHollow_58
• Track 36 : MissWhite_57
• Track 37 : Herbertwm_56
• Track 38 : Serenity_58
• Track 39 : C3_56, VC3_61, AN9_61, ANI8_61
• Track 40 : Journey13_52
• Track 41 : SwirlSquare_61
• Track 42 : Acolyte_53
• Track 43 : Che12_59
• Track 44 : TipsytheTRex_54
• Track 45 : NothingSpecial_56
• Track 46 : Anthony_54
• Track 47 : FatCactus_50
• Track 48 : Arissanae_57
• Track 49 : SheaKeira_56
• Track 50 : Spouty_58, Onglai_56, Beemo_58, Catalina_59, Conquerage_58, Ayanochan_57, Scherzo_58, Lilleskat_56, Priya_58, Eidsmoe_58, Myxus_58, HortumSL17_58, Aliter_58, Qobbit_58, Alma_58, Phonnegut_58, Pioneer_58, RyeScarlet_59, Phaeder_58, EmyBug_57, Ugenie5_55, Sachima_55, Fayely_58, Jiawan_56, Tubs_58, PackMan_57
• Track 51 : MegTheThird_57
• Track 52 : Elephantoon_57
• Track 53 : DreamTeam1_56, Klodlith_57, Charm_56
• Track 54 : Maminiaina_57, BogosyJay_57
• Track 55 : Hanray_56, Holex_57, EdogawaKiddo_56
• Track 56 : CogOmlette_57, WorldCup_57, Rahalelujah_58, Minispark_57, Bellris_58
• Track 57 : ExplosioNervosa_58
• Track 58 : Celestialunch_56
• Track 59 : LoneWolf_59
• Track 60 : Darrell_60
• Track 61 : Yecey3_59
• Track 62 : Vanisoa_58
• Track 63 : Keziacharles14_58
• Track 64 : Toaka_58
• Track 65 : Indlulamithi_37
• Track 66 : Onyinye_53, Aikoy_52, Leopard_52
• Track 67 : Raphaella_74
• Track 68 : Kabloowy_73, Windest_77, Mapleville_69, Lasker_74, Lawnathon_76
• Track 69 : Sashimi_70
• Track 70 : SonDevVon_80, Sakai_71, Gorpy_72, Sporco_76, BlueShadow_72, MaterMagnus_73, Aikyam_72
• Track 71 : AdaS_70, BillyTP_74
• Track 72 : Faja_76, JellyBread_71, Hestia_67, BasketStar_74

• Track 73 : Globfish_73
• Track 74 : Seahorse_78, Richie_76
• Track 75 : Bhageatrice_77
• Track 76 : GumGum_79, DarwinJr_78
• Track 77 : EvePickles_72
• Track 78 : Satrap_74
• Track 79 : Ding_66
• Track 80 : Raqqa_69
• Track 81 : ThayneTheZag_78
• Track 82 : Crescenzo_76
• Track 83 : Persistence_66
• Track 84 : Isolde_71, BenchScraper_73, CookieBear_72
• Track 85 : Tiff81_68
• Track 86 : MUWow_74
• Track 87 : MurphyJoseph_70, YoungHarleezy_72
• Track 88 : RadFad_77, Hillester_77, Vopal_74
• Track 89 : NewKitty_76
• Track 90 : Auxilium_71
• Track 91 : JakeTheSnake_77
• Track 92 : LeBruni_73
• Track 93 : Phrank15_75
• Track 94 : Anekin_75
• Track 95 : MidnightRain_78
• Track 96 : AbbyDaisy_76
• Track 97 : CosmicBrownie_68
• Track 98 : SpicyFrank_75
• Track 99 : Shukran_70
• Track 100 : Nyilah_77
• Track 101 : Michkear_34
• Track 102 : ThursdayNight_38
• Track 103 : Cyan_33, Joemato_33, JohnDoe_33, Simpson_35
• Track 104 : Kaylissa_33, Nitro_33, JuneStar_33, Lizalica_32, Pumpkins_33, TforTroy_34, YesChef_33, Powerpuff_35
• Track 105 : Tutumahutu_33, Flutur_33, Warda_33, Tbone_32
• Track 106 : Berrie_34
• Track 107 : PandaPo_32, MissSwiss_32
• Track 108 : AGrandiflora_34
• Track 109 : Tuck_36, Community_34, Phives_35
• Track 110 : DrSierra_32
• Track 111 : Niobe_34, Jstan_36, Skelbel_35, Asa16_34, Eraser_34
• Track 112 : Schaffner_33, Yang_33
• Track 113 : Ascela_34, Iter_34
• Track 114 : Cassia_34
• Track 115 : Turab_32, Adumb2043_32
• Track 116 : Amploria_32, AEgle_32
• Track 117 : Janeemi_35, Lego_33
• Track 118 : Wildwest_33
• Track 119 : KeAlii_33
• Track 120 : Amyev_33, Tian_33, Pixelle_33
• Track 121 : ObiToo_36, Crewmate_37
• Track 122 : Sue2_34
• Track 123 : Mudpuppy_32
• Track 124 : Reedo_32

• Track 125 : Tallboi_33
• Track 126 : Adolin_32
• Track 127 : IttyBittyPiggy_33
• Track 128 : DrManhattan_32
• Track 129 : Maureen_36, MaGuCo_34
• Track 130 : Liebe_36, IUFootball_36
• Track 131 : Snek_33, Tweety19_33
• Track 132 : LadyAstra_39, Origami_39
• Track 133 : JasmineDragon_39, ShakeItOph_39, MiniMommy_40
• Track 134 : AceofSpades_40
• Track 135 : Emotion_38
• Track 136 : VroomVroom_39
• Track 137 : FiveHead_43, JohnThicc_39
• Track 138 : Cappuccino_31
• Track 139 : Moss_31
• Track 140 : Ashes_31, Halsey_31, Beaupre_31
• Track 141 : SpecialK_31
• Track 142 : RockScotty_31
• Track 143 : Soondubu_31, Exile_31
• Track 144 : AinMach_35
• Track 145 : ScoobyDoobyDoo_73
• Track 146 : Greely_81, Phabba_83
• Track 147 : Myrna_77
• Track 148 : Gollum_46, BobbyDazzler_46, Lillie_46, Jester_45, Bryce_45, AngryOrchard_44, RexFury_45, Erik_46, Harlequin_45, Nancinator_46, Rhodalysa_46, Yogi_45, StCroix_45, Espica_46, Bradshaw_46, Krishelle_46, CosmicSans_46, Dinger_45, UhSalsa_46, Natosaleda_45, Shuman_46, Naiad_45, Takoda_46, Belenaria_46, RER2_39, TWAMP_46, Phrankenstein_46, Alatin_45, Swann_46, Rasputin_46, Alpacados_45, Yoncess_45, Bonanza_46
• Track 149 : Hiro_46, PhailMary_45
• Track 150 : Partridge_45
• Track 151 : RGL3_40
• Track 152 : AppleCloud_43
• Track 153 : Bachita_128, Cucurbita_126, Toniann_125, Engineer_127, PhinkBoden_125
• Track 154 : Miskis_120, Geeche_123, ClubL_125, Culver_125, Aphelion_125, Abscondus_124, Dusty_122, Norvs_124, Lozinak_125, Smoothie_126
• Track 155 : WilliamBoone_123
• Track 156 : OneUp_110
• Track 157 : BrutonGaster_100
• Track 158 : Banquo_62
• Track 159 : Goib_64, Splinter_63, TZGordon_64, Vendetta_63
• Track 160 : DinoDaryn_63, Huffy_63
• Track 161 : TinaLin_62
• Track 162 : Gsput1_55
• Track 163 : Dardanus_57
• Track 164 : Schmidt_57
• Track 165 : Catfish_63
• Track 166 : JonJames_133, Yvonnetastic_129
• Track 167 : Cardigan_131
• Track 168 : DatBoi_82
• Track 169 : Bantam_85, SpeedDemon_860
• Track 170 : Mollymur_85

• Track 171 : Daredevil_75, Towmatter_75
• Track 172 : CherryTomatoes_78, SCentae_76, Pupper_77
• Track 173 : Skog_140
• Track 174 : Keelan_118
• Track 175 : Ronaldo_118, Fryberger_117, Ziko_119, Guey18_121, Volt_121
• Track 176 : Stark_38, Argent26_39, Maxxinista_38, Moldemort_38, Emmina_38, Gage_39, HufflyPuff_36, Icee_36, Nimrod_37, Petra64142_39, FireRed_37, Rakim_38, Czyszczon1_38, StellaBean_37, Elph10_38, TBrady12_39, Rimmer_36, Policronamos_37, Buck_36, Kostya_38, FoghornLeghorn_36, RiverMonster_37, Kanye_39, TeardropMSU_36, GoldenSpark_39, Sassay_36, Thresher_38, Tarkin_39, 244_39, StormChicken_37, Simpliphy_38, HanKaySha_38, MISSy_36, Dumbo_37, Asriel_36, MadamMonkfish_37, BilboSwaggins_37, Myrale_37, Manda_38, Becksu_37, Ukulele_37, TeamEdward_37, SophKB_37, DrDrey_38, Cactus_38, YassJohnny_38, GooberAzure_39, Hopey_39, Miniwave_37, Greep_38, PhatBacter_37, JeTaime_39, FairyPath_37, BugsBunny_35, Teaspoon_38, MPhalcon_36, Adnama_40, Highbury_38, Kimchi_39, Livelaughbron_38, Saints25_38, Bask21_37, Stank_40, Easy2Say_39, StolenFromERC_39, Tuco_38, Quallification_38, NonchalantPear_37, Palpatine_37, Cjw1_37, Traaww1_35, Filch_38, Phaux_36, Sotrice96_37, NelitzaMV_37, Lilpickle_36, Terminus_37, AmericanBeauty_39, Goldilocks_38, Murphy_38, Bench_39, Gator_35, Phrux_37, CrystalP_37, Hoonter_39, Elite2014_36, Misfit_37, Ptowny_38, Wiggin_40, ChosenOne_37, ABCat_36, Xandras_39, Willez_36, MollyToe_37, Paperbeatsrock_39, Gemini_40, Thimble_37, Lilac_39, PaddyBaddy_38, Nala_37, Marshmallow_37, ShamWow_37, Pumpkin_39, Barbarian_36, Command613_38, xkcd_38, NoSleep_38, OrionPax_38, Inca_36, Bruin_37, Lilizi_39, Porky_37, Toto_37, Pharsalus_38, Murica_36
• Track 177 : Tomaszewski_36, SirDuracell_36, Harella_36, Glexan_35, ChotaBhai_37, DoctorDiddles_37, Youngblood_37, Pat3_36, Dusk_36, BadStone_36, Contagion_36, Mindy_37, Flypotenuse_35, Mosby_36, Amao_37, BigBubba_38, Brewer_37, Henry_38, Holt_38, Daikon_36, Cookies_37, Balomoji_36
• Track 178 : Bogg_38, BaboJay_37, Goku_38, Eureka_38
• Track 179 : Phaja_37, ShereKhan_39, IHOP_37
• Track 180 : Budgie_39
• Track 181 : Gack_33
• Track 182 : Bengal_37, Doobus_35, AnnaLie_37, Albright_34, Softsoap_36, Burritobowl_36, LimaBean_35, Abigail_35, Finalfrontier_36, Arroyo_37, Avocadoman_35, BelmontSKP_37, BubbaBear_35, SansAfet_37, Johnathan_35, DickRichards_35
• Track 183 : AylexOG_38, Jabb_37, MsUbiquitous_37, QMacho_38, CupcakePrincess_37, Albedo_36, Nicky22_37, SarBear_36, Jovita_37, Pecas_36, Kenzers_36, Swervy_37, Lynlen_36, Lilo27_37, Slay_37, SirBeanington_36, Eula_37
• Track 184 : Rollins_33, Brahms_33, Armstrong_33, Coltrane_33, Bernstein_33
• Track 185 : PondAmelia_38
• Track 186 : Kamdara_34
• Track 187 : Vitas_33, Clayda5_34, Skylord_33
• Track 188 : DirtyBubble_36, Stromboli_37
• Track 189 : BabyDaisy_35
• Track 190 : Elva_38
• Track 191 : Icarian_39, Loviatar_37, Akino08_37
• Track 192 : CliffHanger_37
• Track 193 : PastaFagioli_35, Didgeridoo_38, Lahqtemish_35, Kate33_36, TukTuk_37, Cashington_34, PhigPhack_37
• Track 194 : Eden_34

• Track 195 : ChiliPepper_33, Sharkboy_35
• Track 196 : SunnyD_36, Teagster_37
• Track 197 : Franklin22_35
• Track 198 : Kieran_34
• Track 199 : Celaena_34
• Track 200 : Bachaco_34
• Track 201 : IndyLu_35, Grist_35
• Track 202 : Dismas_34
• Track 203 : BabyYoda_37
• Track 204 : Squircle_33, Olliecat_33
• Track 205 : AvGardian_38
• Track 206 : BAjuniper_35
• Track 207 : Phisb_37
• Track 208 : Shayna_36
• Track 209 : SanaSana_39
• Track 210 : Milomuff_36, Solea_37
• Track 211 : FlameThrower_34
• Track 212 : Stoor_37
• Track 213 : Rona_34
• Track 214 : WalkingDead_38
• Track 215 : Buldak_33
• Track 216 : CanFranMach_37
• Track 217 : Quenya_35
• Track 218 : Katzastrophic_35
• Track 219 : CroZenni_36
• Track 220 : Wolfstar_31
• Track 221 : Alleb_29, Platte_28, Tandem_28, Pioneer3_28, Hortus1_28, OlinDD_28
• Track 222 : Lupine_29, Hubbs_30, Uterion_32, Solimine_31, DejaVu_31, Pavlo_29, Saradis_31, Roman_30
• Track 223 : Jacko_31
• Track 224 : PhillyPhilly_30
• Track 225 : Casablancas_36, Deschain_35
• Track 226 : Fork_31
• Track 227 : Necrophoxinus_37, Erenyeager_35
• Track 228 : Shroomer_39
• Track 229 : DustyDino_38, RunningBrook_36
• Track 230 : Welcome_36
• Track 231 : StevieWelch_35
• Track 232 : Musetta_35, Yuma_34
• Track 233 : Lyell_35
• Track 234 : Issa7_34
• Track 235 : ASegato_34
• Track 236 : SteakFry_37, HollowPurple_36
• Track 237 : Mistmere_28
• Track 238 : Forester_41, SuperHands_41, Gretchen_42
• Track 239 : GardenState_42, IAmGroot_42
• Track 240 : Floof_43
• Track 241 : Caron_44
• Track 242 : SuMoo_44
• Track 243 : Cen1621_38
• Track 244 : Mabodamaca_42
• Track 245 : Percival_43
• Track 246 : Zeta1847_35

• Track 247 : Honk_39
• Track 248 : Barnstormer_41, UtzChips_41
• Track 249 : KingKamren_9
• Track 250 : Zhengyi_9, EugeneKrabs_9
• Track 251 : Unphazed_9, DumpQuist_9
• Track 252 : MiamiPanther_9, JessellCookie_9
• Track 253 : HitchHiker_10, Oatly_9, Biozilla_9
• Track 254 : CrunchyBoi_10, PineapplePluto_10
• Track 255 : Salvatore2000_9, Sorvannah_9, Wesak_9, YellowPanda_9
• Track 256 : Corn21_9
• Track 257 : LilyLou_9
• Track 258 : Stormbreaker_9, Alex44_9
• Track 259 : Dashyla_9, Xitlalli_9, SwissCheezer_9, Phogo_9
• Track 260 : Conditioner_9
• Track 261 : Birdfeeder_9
• Track 262 : TicTac_9
• Track 263 : ArMaWen_9
• Track 264 : Pabst_9
• Track 265 : TinyTimothy_9
• Track 266 : ThirteenKH_9, TrippleS_9, Mazun_9
• Track 267 : RicoCaldo_9
• Track 268 : Barroma_9, Truong_9, JordanFarm_9, ShyRosie_9
• Track 269 : StagePhright_9, Fullmetal_9, Phractured_9, Phedro_9, Pharky_9
• Track 270 : Ashton_9, Waterlily_9, Akoni_9
• Track 271 : Moleficent_9, Astartes_9, PhriedRice_9, Keough_9
• Track 272 : JimmyPG_9
• Track 273 : Atraxi_9, Morrill_9
• Track 274 : Yafa_9
• Track 275 : Fede_9, Kosier_9
• Track 276 : SoilSleuth_9
• Track 277 : AloeVera_9
• Track 278 : Count_87
• Track 279 : Kikiko_7
• Track 280 : MissAmericana_7
• Track 281 : Shoya_56, Rooter_57
• Track 282 : Gibbzilla_63
• Track 283 : BrayBeast_56
• Track 284 : Alatato_55
• Track 285 : JeanClaude_54
• Track 286 : Pigu_53
• Track 287 : Kumotta_57, MargaretKali_53
• Track 288 : Sarge_51
• Track 289 : WaddleDee_95, Ellewin_96, BooTeria_98, DunneganBoMo_97, Emmetator_100, Artu_100
• Track 290 : LeoJr_107, Atuin_102
• Track 291 : Panchaali_99
• Track 292 : Stewart25555_99
• Track 293 : ReginaGlobina_107
• Track 294 : KSunshine22_102
• Track 295 : Kukla_56
• Track 296 : GUPitcher_53
• Track 297 : PetriParty_57
• Track 298 : DreamEater_53

• Track 299 : TripleJ_57
• Track 300 : Vitus_40
• Track 301 : BlackJade_54
• Track 302 : GoldDust_40, Gooberta_40
• Track 303 : SunnyJune_47
• Track 304 : AirForce1_46
• Track 305 : Music_39, Vibaki_39
• Track 306 : Divya_48
• Track 307 : Orkz_49
• Track 308 : Jinkies_45
• Track 309 : Hirko_38
• Track 310 : Bauer_68
• Track 311 : Cassini_70
• Track 312 : Zucker_69
• Track 313 : BellaJr_66
• Track 314 : BlackSpider_60
• Track 315 : GrimEater_30
• Track 316 : Elfy_29
• Track 317 : BaileyBlu_34
• Track 318 : Jankie_31
• Track 319 : LisoBros_35
• Track 320 : CallinAllBarbz_34
• Track 321 : Pitbull_58
• Track 322 : Gerri43_3, ChipsNGuac_3, CardboardBox_3, Roberts_3, Neuvillette_3, AnnabelLee_3, ChamoyPickle_3
• Track 323 : TMaxx_3
• Track 324 : Ezurina_2
• Track 325 : Audell_6
• Track 326 : LastNadiia_6
• Track 327 : TripleC_6
• Track 328 : Makima_4
• Track 329 : Mireles_3
• Track 330 : Studio_2
• Track 331 : Agamotto_5
• Track 332 : Khuang_61
• Track 333 : Altostratus_60
• Track 334 : WaterT_52, LeeroyJenkins_54
• Track 335 : BarnCat_46
• Track 336 : Cassita_54
• Track 337 : Lifes_48
• Track 338 : Dodo_214, A3Wally_218
• Track 339 : A3Wally_20, A3Wally_373
• Track 340 : Dodo_367, PauloDiaboli_20, PauloDiaboli_375, Dodo_21
• Track 341 : PauloDiaboli_218
• Track 342 : Big4_346, Big4_20
• Track 343 : Zooman_185, Big4_204
• Track 344 : Zooman_18, Zooman_331
• Track 345 : Erasmago_208
• Track 346 : Cece_195
• Track 347 : Pumpernickel_201
• Track 348 : Stuck_65, Shweta_51
• Track 349 : Bluvara_58
• Track 350 : Squint_50, Gonephishing_53, BronnyJames_44, Shaboozey_44

• Track 351 : Ejimix_52, Halley_52, HokkenD_45, EricMillard_52, Beem_52, Hughesyang_50, Bagrid_51, Yeet_50, ThreeRngTarjay_50, Kalah2_52, BAKA_56
• Track 352 : JuicyJay_54, Klein_52, DmpstrDiver_53, Schatzie_49, Odette_52
• Track 353 : Wanda_58, Minerva_58, Bombitas_49, Pound_54, NihilNomen_51, Duke13_55, Optimus_57, Phoebus_51
• Track 354 : Omega_56, Ariel_51, LittleE_56, Porcelain_50, Courthouse_51, MiaZeal_51, Thibault_45, Lucky2013_51, Nekros_50, Superphikiman_51
• Track 355 : Nibley_46, Redno2_50, Dallas_54, Zelink_53
• Track 356 : Hidrated_50
• Track 357 : Dove_49, Constella_44, Xiaokay_47
• Track 358 : Bobby_51, Hannaconda_48, KashFlow_45
• Track 359 : Marleymoo_53
• Track 360 : Rearden_46
• Track 361 : JoyLin_51, Eevee_51, Yotsuba_51
• Track 362 : Sweetclover_51
• Track 363 : Pippin15_52
• Track 364 : Serenabean_52
• Track 365 : Daddyjeff_52, AddiRose_51
• Track 366 : Rose5_30, Acquire49_30, Enceladus_30, Appletree2_30, OhShagHennessy_30, Calm_30, CicholasNage_30, Zaria_30, Wamburgrxpress_30, JoeDirt_30, LeBron_30, Halena_30, MAckerman_30, Wyatt2_30, AvadaKedavra_30, UPIE_30, Silverleaf_30
• Track 367 : DirkDirk_30, Tyson_30
• Track 368 : Poochiewood_30
• Track 369 : Tourach_32, Baoshan_31
• Track 370 : Breezona_32, Netyap_32, Vetrix_32, Gardann_32, Winky_32, Itos_32, Underpass_32, Miley16_32, OverPar_32, Faith1_32, DrSeegs_32, Finemlucis_32, Wigglewiggle_32, MkaliMitinis3_32, Crossroads_32, Gabriela_32, Wilder_32, Loadrie_32, BigCheese_32, Nicholasp3_32, BobsGarage_32, GuuelaD_32
• Track 371 : ChengKai98_32, Lewan_32, Kahlid_32, Rumpelstiltskin_32, Molivier_32, Soap141_32, Hiraya_32, Hafay_32, SoJulia_33, Sarshaun_32, Lynnae_32
• Track 372 : Bazzle_32, Archie_32
• Track 373 : DHan_32, Claus_32
• Track 374 : Rossetti_32
• Track 375 : LilDestine_32
• Track 376 : ZhongYanYuan_31, DanBing_31
• Track 377 : Zakai_32
• Track 378 : Samty_31, Clautastrophe_31, Kingsolomon_31, TriFive_31, Nicholas_31, Lumos_31, MiniLon_31, MiniMac_31, Snenia_31, Finnry_31, MsGreen_31, Lolly9_31, Jubie_31, Bellis_31
• Track 379 : LiyuLake_31, Ellson_31, DuncansLeg_31
• Track 380 : BourbonZero_30, KirDoubleO7_29
• Track 381 : Moostard_31, Jobypre_31
• Track 382 : Krypton555_31
• Track 383 : Red305_31
• Track 384 : Whirlwind_32
• Track 385 : Bromden_32
• Track 386 : Kropertea_30, ChutneyChips_31, Chaser_30, DyoEdafos_31
• Track 387 : Douge_30
• Track 388 : FarmResident_30, Quby_30
• Track 389 : PYPDinur_30, BrainDrainer_31, Sheng711_30, Douzhi_30
• Track 390 : Aegeus_33, Baudelaire_33

• Track 391 : RoseMarie_41
• Track 392 : Riparian_40, Weiss13_40, Rope_40, Papyrus_40
• Track 393 : Zenon_41, Nilo_41, Yelo_40, Send513_40, Candle_40
• Track 394 : MontyDev_40
• Track 395 : Gimesa_41
• Track 396 : Stellammi_36
• Track 397 : Cosmo_53, Azrael100_52, EniyanLRS_50, Wildcat_53, MaryV_53
• Track 398 : Juicebox_39
• Track 399 : Footloose_59
• Track 400 : Kumao_40
• Track 401 : Yappy_50
• Track 402 : BFK20_ORF53
• Track 403 : DS6A_74
• Track 404 : EmiRose_45
• Track 405 : Tailonex_48
• Track 406 : Mbo4_60

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

The start number called the most often in the published annotations is 180, it was called in 162 of the 901 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_39, ABCat_36, Adnama_40, Aikoy_52, AinMach_35, Amao_37, AmericanBeauty_39, Argent26_39, Asriel_36, BAKA_56, BadStone_36, Bagrid_51, Balomoji_36, Barbarian_36, Bask21_37, Becksu_37, Beem_52, Bench_39, BigBubba_38, BilboSwaggins_37, Bobby_51, Bombitas_49, Brewer_37, Bruin_37, Buck_36, Budgie_39, BugsBunny_35, Cactus_38, ChosenOne_37, ChotaBhai_37, Cjw1_37, Command613_38, Constella_44, Contagion_36, Cookies_37, CrystalP_37, Czyszczon1_38, Daikon_36, Dallas_54, DmpstrDiver_53, DoctorDiddles_37, Dove_49, DrDrey_38, Duke13_55, Dumbo_37, Dusk_36, Easy2Say_39, Ejimix_52, Elite2014_36, Elph10_38, Emmina_38, EricMillard_52, FairyPath_37, Filch_38, FireRed_37, Flypotenuse_35, FoghornLeghorn_36, Gage_39, Gator_35, Gemini_40, Glexan_35, GoldenSpark_39, Goldilocks_38, GooberAzure_39, Greep_38, Halley_52, HanKaySha_38, Hannaconda_48, Harella_36, Henry_38, Highbury_38, HokkenD_45, Holt_38, Hoonter_39, Hopey_39, HufflyPuff_36, Hughesyang_50, Icee_36, Inca_36, JeTaime_39, JuicyJay_54, Kalah2_52, Kanye_39, KashFlow_45, Kimchi_39, Klein_52, Kostya_38, Leopard_52, Lilac_39, Lilizi_39, Lilpickle_36, Livelaughbron_38, MISSy_36, MPhalcon_36, MadamMonkfish_37, Manda_38, Marshmallow_37, Maxxinista_38, Mindy_37, Minerva_58, Miniwave_37, Misfit_37, Moldemort_38, MollyToe_37, Mosby_36, Murica_36, Murphy_38, Myrale_37, Nala_37, NelitzaMV_37, Nibley_46, NihilNomen_51, Nimrod_37, NoSleep_38, NonchalantPear_37, Odette_52, Onyinye_53, Optimus_57, OrionPax_38, PaddyBaddy_38, Palpatine_37, Paperbeatsrock_39, Pat3_36, Petra64142_39, Pharsalus_38, PhatBacter_37, Phaux_36, Phoebus_51, Phrux_37, Policronamos_37, Porky_37, Pound_54, Ptowny_38, Pumpkin_39, Quallification_38, Rakim_38, Rearden_46, Redno2_50, Rimmer_36, RiverMonster_37, Saints25_38, Sassay_36, Schatzie_49, ShamWow_37, Simpliphy_38, SirDuracell_36, SophKB_37, Sotrice96_37, Stank_40, Stark_38, StellaBean_37, StolenFromERC_39, StormChicken_37, TBrady12_39, Tarkin_39, TeamEdward_37, TeardropMSU_36,

Teaspoon_38, Terminus_37, Thimble_37, ThreeRngTarjay_50, Thresher_38, Tomaszewski_36, Toto_37, Traaww1_35, Tuco_38, Ukulele_37, Wanda_58, Wiggin_40, Willez_36, Xandras_39, Xiaokay_47, YassJohnny_38, Yeet_50, Youngblood_37, Zelink_53, Zeta1847_35, xkcd_38,

Genes that have the "Most Annotated" start but do not call it:
• IHOP_37, Phaja_37, ShereKhan_39,

Genes that do not have the "Most Annotated" start:
• 40AC_59, A3Wally_20, A3Wally_218, A3Wally_373, AEgle_32, AGrandiflora_34, AN9_61, ANI8_61, ASegato_34, AbbyDaisy_76, AbbyPaige_60, Abigail_35, Abscondus_124, AceofSpades_40, Acolyte_53, Acquire49_30, AdaS_70, AddiRose_51, Adolin_32, Adumb2043_32, Adzzy_59, Aegeus_33, Agamotto_5, Agape74_60, Aikyam_72, AirForce1_46, Akino08_37, Akoni_9, Alatato_55, Alatin_45, Albedo_36, Albright_34, Alex44_9, Aliter_58, Alleb_29, Alma_58, AloeVera_9, Alpacados_45, Altostratus_60, Amploria_32, Amyev_33, Anaysia_64, Aneem_58, Anekin_75, AngryOrchard_44, AnnaLie_37, AnnabelLee_3, Anon_61, Anselm_59, Anthony_54, Aphelion_125, AppleCloud_43, Appletree2_30, ArMaWen_9, Archie_32, Ariel_51, Arissanae_57, Armstrong_33, Arroyo_37, Artu_100, Asa16_34, Ascela_34, Ashes_31, Ashton_9, Astartes_9, Atraxi_9, Atuin_102, Audell_6, Auxilium_71, AvGardian_38, AvadaKedavra_30, Avocadoman_35, Ayanochan_57, AylexOG_38, Azrael100_52, BAjuniper_35, BFK20_ORF53, BaboJay_37, BabyDaisy_35, BabyYoda_37, Bachaco_34, Bachita_128, Bachome_59, BaileyBlu_34, Banquo_62, Bantam_85, Baoshan_31, BarnCat_46, Barnstormer_41, Barroma_9, BasketStar_74, Battleship_66, Baudelaire_33, Bauer_68, Bazzle_32, Beaupre_31, Beemo_58, Belenaria_46, BellaJr_66, Bellis_31, Bellris_58, BelmontSKP_37, BenchScraper_73, Bengal_37, Benvolio_55, Bernstein_33, Berrie_34, Bhageatrice_77, Big4_20, Big4_204, Big4_346, BigCheese_32, BillyTP_74, Biozilla_9, Birdfeeder_9, BlackJade_54, BlackSpider_60, BlueShadow_72, Bluvara_58, BobSwaget_54, BobbyDazzler_46, BobsGarage_32, Bogg_38, BogosyJay_57, Bonanza_46, BooTeria_98, Boohoo_64, BourbonZero_30, Bowtie_58, Bradman_57, Bradshaw_46, Brahms_33, BrainDrainer_31, BrayBeast_56, Breezona_32, Bromden_32, BronnyJames_44, BrutonGaster_100, Bryce_45, BubbaBear_35, Bud_57, Bugsy_60, Buldak_33, Burritobowl_36, C3_56, CallinAllBarbz_34, Calm_30, CanFranMach_37, Candle_40, Cappuccino_31, Caraxes_58, CardboardBox_3, Cardigan_131, Caron_44, Casablancas_36, Cashington_34, Cassia_34, Cassini_70, Cassita_54, Catalina_59, Catfish_63, Cece_195, Celaena_34, Celestialunch_56, Cen1621_38, ChamoyPickle_3, Charm_56, Chaser_30, Che12_59, ChengKai98_32, CherryTomatoes_78, ChiliPepper_33, ChipMunk_60, ChipsNGuac_3, ChutneyChips_31, CicholasNage_30, Claus_32, Clautastrophe_31, Clayda5_34, CliffHanger_37, ClubL_125, CogOmlette_57, Coltrane_33, Community_34, Conditioner_9, Conquerage_58, CookieBear_72, Corn21_9, CosmicBrownie_68, CosmicSans_46, Cosmo_53, Count_87, Courthouse_51, Crescenzo_76, Crewmate_37, CroZenni_36, Crossroads_32, Crucio_58, CrunchyBoi_10, Cucurbita_126, Culver_125, CupcakePrincess_37, Cyan_33, D29_56, D32_59, DBQu4n_60, DHan_32, DS6A_74, Daddyjeff_52, Dalmatian_59, DanBing_31, Dardanus_57, Daredevil_75, Darrell_60, DarthPhader_54, DarwinJr_78, Dashyla_9, DatBoi_82, DejaVu_31, DekHockey33_65, Deschain_35, DickRichards_35, Didgeridoo_38, Dignity_60, Ding_66, Dinger_45, DinoDaryn_63, DirkDirk_30, DirtyBubble_36, Dismas_34, Divya_48, Dodo_21, Dodo_214, Dodo_367, Doobus_35, Douge_30, Douzhi_30, DrManhattan_32, DrSeegs_32, DrSierra_32, DreamEater_53, DreamTeam1_56, DudeLittle_57, DumpQuist_9, DuncansLeg_31,

DunneganBoMo_97, Duplo_60, DustyDino_38, Dusty_122, DyoEdafos_31, EagleEye_60, Ebony_57, Echild_58, Eden_34, EdogawaKiddo_56, Eevee_51, Eidsmoe_58, Elephantoon_57, Elfy_29, Ellewin_96, Ellson_31, Elva_38, EmiRose_45, Emmetator_100, Emotion_38, EmyBug_57, Enceladus_30, Engineer_127, EniyanLRS_50, Epsocamisio_61, Eraser_34, Erasmago_208, Erenyeager_35, Erik_46, Espica_46, Et2Brutus_56, EugeneKrabs_9, Eula_37, Eureka_38, EvePickles_72, EvilGenius_60, Exile_31, ExplosioNervosa_58, Ezurina_2, Faith1_32, Faja_76, Fameo_58, FarmResident_30, FatCactus_50, Fayely_58, Fede_9, Fibonacci_57, Finalfrontier_36, Finemlucis_32, Finnry_31, FiringLine_58, FiveHead_43, FlameThrower_34, Flaverint_58, Floof_43, Flutur_33, Footloose_59, Forester_41, Fork_31, Franklin22_35, Fryberger_117, Fullmetal_9, GUPitcher_53, Gabriela_32, Gack_33, Gardann_32, GardenState_42, Geeche_123, Georgie2_59, Gerri43_3, Gibbzilla_63, Gilberta_58, Gimesa_41, Globfish_73, Goib_64, Goku_38, GoldDust_40, Gollum_46, Gonephishing_53, Gooberta_40, Gorpy_72, Greely_81, Gretchen_42, GrimEater_30, Grist_35, Gsput1_55, Guey18_121, GumGum_79, GuuelaD_32, Hafay_32, Halena_30, Halsey_31, Hanray_56, Harlequin_45, Heffalump_57, Herbertwm_56, Hestia_67, Hidrated_50, Hillester_77, HippoHollow_58, Hiraya_32, Hirko_38, Hiro_46, HitchHiker_10, Holex_57, HollowPurple_36, Honk_39, HortumSL17_58, Hortus1_28, Hubbs_30, Huffy_63, Hutc2_57, IAmGroot_42, IUFootball_36, Icarian_39, Indlulamithi_37, IndyLu_35, Insomnia_58, Isolde_71, Issa7_34, Iter_34, Itos_32, IttyBittyPiggy_33, JSwag_63, Jabb_37, Jabith_58, Jacko_31, JakeTheSnake_77, Janeemi_35, Jankie_31, JasmineDragon_39, JeanClaude_54, JellyBread_71, Jerm_60, JessellCookie_9, Jester_45, Jiawan_56, JimmyPG_9, Jinkies_45, Jobypre_31, JoeDirt_30, Joemato_33, JohnDoe_33, JohnThicc_39, Johnathan_35, JonJames_133, JordanFarm_9, Joselito_58, Journey13_52, Jovita_37, JoyLin_51, Jsquared_56, Jstan_36, Jubie_31, Juicebox_39, JuneStar_33, KSunshine22_102, Kabloowy_73, Kahlid_32, Kamdara_34, Kate33_36, KatherineG_64, Katzastrophic_35, Kaylissa_33, KeAlii_33, Keelan_118, Kenzers_36, Keough_9, Kerberos_60, Keziacharles14_58, Khuang_61, Kieran_34, Kikiko_7, Kimba_57, KingCyrus_60, KingKamren_9, Kingsolomon_31, KirDoubleO7_29, Klodlith_57, Koduck_59, Kosier_9, Krishelle_46, Kropertea_30, Krypton555_31, Kukla_56, Kumao_40, Kumotta_57, L5_56, LadyAstra_39, Lahqtemish_35, Larenn_57, Lasker_74, LastNadiia_6, LastResort_62, Lawnathon_76, LeBron_30, LeBruni_73, LeeroyJenkins_54, Lego_33, LeoJr_107, Leviathan_60, Lewan_32, Liebe_36, Lifes_48, LilDestine_32, LilTurb_59, Lilleskat_56, Lillie_46, Lilo27_37, LilyLou_9, LimaBean_35, LionsBait_60, LisoBros_35, LittleE_56, LiyuLake_31, Lizalica_32, Loadrie_32, LogiBear_62, Lokk_55, Lolly9_31, LoneWolf_59, Looper_63, Loviatar_37, Lozinak_125, Lucivia_58, Lucky2013_51, Lucyedi_59, Lumos_31, Lupine_29, Lyell_35, Lynlen_36, Lynnae_32, MAckerman_30, MUWow_74, MaCh_58, MaGuCo_34, Mabel_57, Mabodamaca_42, MajorMajor_57, Makima_4, Malec_58, Maminiaina_57, Mapleville_69, MargaretKali_53, Marleymoo_53, MaryV_53, MaterMagnus_73, Maureen_36, Mazun_9, Mbo4_60, MegTheThird_57, MiaZeal_51, MiamiPanther_9, Michkear_34, MidnightRain_78, Miko_55, Miley16_32, Milomuff_36, MinecraftSteve_64, MiniLon_31, MiniMac_31, MiniMommy_40, Minispark_57, Mireles_3, Miskis_120, MissAmericana_7, MissSwiss_32, MissWhite_57, Mistmere_28, MkaliMitinis3_32, Moleficent_9, Molivier_32, Mollymur_85, MontyDev_40, Moostard_31, Morrill_9, Moss_31, MsGreen_31, MsUbiquitous_37, Mudpuppy_32, Mulciber_57, Munch_58, MurphyJoseph_70, Musetta_35, Music_39, Myrna_77, Myxus_58, Naiad_45, Naji_60, Nancinator_46, Natosaleda_45, Nebulosus_62, Necrophoxinus_37, Nedarya_60, Nekros_50, Netyap_32, Neuvillette_3, NewKitty_76, Nicholas_31, Nicholasp3_32, Nicky22_37, Nilo_41, Niobe_34, Nitro_33, Norvs_124, NothingSpecial_56, Nyilah_77, Oatly_9,

ObiToo_36, Odin_56, OhShagHennessy_30, OlinDD_28, Olliecat_33, Omega_56, OneUp_110, Onglai_56, Oofda_65, Orange_57, Origami_39, Orkz_49, OverPar_32, PYPDinur_30, Pabst_9, PackMan_57, PainterBoy_59, Panchaali_99, PandaPo_32, Papyrus_40, Partridge_45, PastaFagioli_35, PauloDiaboli_20, PauloDiaboli_218, PauloDiaboli_375, Pavlo_29, Pecas_36, Percival_43, Persistence_66, Petersenfast_57, PetriParty_57, Ph8s_59, Phabba_83, Phaeder_58, PhailMary_45, Pharaoh_53, Pharky_9, Phedro_9, PhigPhack_37, PhillyPhilly_30, PhinkBoden_125, Phisb_37, Phives_35, Phlei_47, Phogo_9, Phonnegut_58, Phractured_9, Phrank15_75, Phrankenstein_46, PhriedRice_9, Pigu_53, PineapplePluto_10, Pioneer3_28, Pioneer_58, Pippin15_52, Pitbull_58, Pixelle_33, Platte_28, Pomar16_60, PondAmelia_38, Poochiewood_30, Porcelain_50, Power_57, Powerpuff_35, Priya_58, Pumpernickel_201, Pumpkins_33, Pupper_77, QMacho_38, Qobbit_58, Quby_30, QueenB2_57, QueenBeesly_58, Quenya_35, Quokka_56, RER2_39, RGL3_40, Rachaly_57, RadFad_77, Rahalelujah_58, Raphaella_74, Raqqa_69, Rasputin_46, Ravana_66, ReMo_62, Red305_31, Reedo_32, Refuge_56, ReginaGlobina_107, Remus_64, Retro23_59, RexFury_45, Rhodalysa_46, Richie_76, RicoCaldo_9, Riparian_40, Roberts_3, RockScotty_31, Rollins_33, Roman_30, Rona_34, Ronaldo_118, Rooter_57, Rope_40, Rosalind_62, Rose5_30, RoseMarie_41, Rossetti_32, Rumpelstiltskin_32, RunningBrook_36, RyeScarlet_59, SCentae_76, Sachima_55, Sakai_71, Salvatore2000_9, Salz_56, Samty_31, SanaSana_39, SansAfet_37, SarBear_36, Saradis_31, Sarge_51, Sarshaun_32, Sashimi_70, Saskia_58, Satrap_74, Schaffner_33, Scherzo_58, Schmidt_57, ScoobyDoobyDoo_73, Seahorse_78, SemperFi_59, Send513_40, Serenabean_52, Serenity_58, Shaboozey_44, ShakeItOph_39, Sham4_57, Sharkboy_35, ShayRa_64, Shayna_36, SheaKeira_56, Sheng711_30, Shoya_56, Shroomer_39, Shukran_70, Shuman_46, Shweta_51, ShyRosie_9, Silverleaf_30, Simpson_35, SirBeanington_36, Skelbel_35, Skog_140, Skylord_33, Slay_37, Smeagan_61, Smoothie_126, SnapTap_58, Snape_57, Snek_33, Snenia_31, SoJulia_33, Soap141_32, Softsoap_36, SoilSleuth_9, Solea_37, Solimine_31, SonDevVon_80, Soondubu_31, Sorvannah_9, Soups_64, SpecialK_31, SpeedDemon_860, SpicyFrank_75, Splinter_63, Sporco_76, Spouty_58, Squint_50, Squircle_33, StCroix_45, StagePhright_9, StarStuff_60, SteakFry_37, Steamy_54, Stellammi_36, StevieWelch_35, Stewart25555_99, Stoor_37, Stormbreaker_9, Stromboli_37, Strosahl_64, Stuck_65, Studio_2, SuMoo_44, Sue2_34, SunnyD_36, SunnyJune_47, SuperHands_41, Superchunk_56, Superphikiman_51, Swann_46, Sweetclover_51, SweetiePie_58, Swervy_37, SwirlSquare_61, SwissCheezer_9, Switzerland_63, TMaxx_3, TWAMP_46, TZGordon_64, Tailonex_48, Takoda_46, Tallboi_33, Tandem_28, Tbone_32, Teagster_37, TforTroy_34, ThayneTheZag_78, Thibault_45, ThirteenKH_9, ThursdayNight_38, Tian_33, TicTac_9, Tiff81_68, Timothy_57, TinaLin_62, TinyTimmy_57, TinyTimothy_9, TipsytheTRex_54, Toaka_58, Tomathan_60, Toniann_125, Tourach_32, Towmatter_75, Travvers_60, TriFive_31, TripleC_6, TripleJ_57, TrippleS_9, Truong_9, Tubs_58, Tuck_36, TukTuk_37, Turab_32, Turbido_59, Tutumahutu_33, Tweety19_33, Tyson_30, UPIE_30, Ugenie5_55, UhSalsa_46, Underpass_32, Unphazed_9, Uterion_32, UtzChips_41, VC3_61, Vanisoa_58, Vendetta_63, Vetrix_32, Vibaki_39, Vitas_33, Vitus_40, Volt_121, Vopal_74, VroomVroom_39, WaddleDee_95, Waits_64, WalkingDead_38, Wamburgrxpress_30, Warda_33, Warrior24_66, WaterT_52, Waterlily_9, Weiss13_40, Welcome_36, Wesak_9, Whabigail7_59, Whirlwind_32, Wigglewiggle_32, Wildcat_53, Wilder_32, Wildwest_33, WilliamBoone_123, Windest_77, Winky_32, Wolfstar_31, Wolpertinger_56, WorldCup_57, Wyatt2_30, Xitlalli_9, Yafa_9, Yang_33, Yappy_50, Yecey3_59, YellowPanda_9, Yelo_40, YesChef_33, Yogi_45, Yoncess_45, Yotsuba_51, YoungHarleezy_72, Yuma_34, Yvonnetastic_129, Zakai_32, Zaria_30, Zenon_41, Zhengyi_9, ZhongYanYuan_31,

Ziko_119, Zimmer_55, Zooman_18, Zooman_185, Zooman_331, Zucker_69,

**Summary by start number:**

Start 90:
• Found in 28 of 1049 ( 2.7% ) of genes in pham
• Manual Annotations of this start: 6 of 901
• Called 21.4% of time when present
• Phage (with cluster) where this start called: Crescenzo_76 (AY), MidnightRain_78 (AY), MurphyJoseph_70 (AY), Richie_76 (AY), Seahorse_78 (AY), YoungHarleezy_72 (AY),

Start 107:
• Found in 1 of 1049 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_68 (FN),

Start 123:
• Found in 2 of 1049 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Juicebox_39 (singleton),

Start 137:
• Found in 15 of 1049 ( 1.4% ) of genes in pham
• Manual Annotations of this start: 12 of 901
• Called 93.3% of time when present
• Phage (with cluster) where this start called: AN9_61 (A2), ANI8_61 (A2), Adzzy_59 (A2), Anthony_54 (A20), C3_56 (A2), Caraxes_58 (A2), Che12_59 (A2), FatCactus_50 (A20), Koduck_59 (A2), L5_56 (A2), Odin_56 (A2), Ph8s_59 (A2), Superchunk_56 (A2), VC3_61 (A2),

Start 138:
• Found in 73 of 1049 ( 7.0% ) of genes in pham
• Manual Annotations of this start: 50 of 901
• Called 90.4% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_76 (AY), AdaS_70 (AY), Aikyam_72 (AY), Alatato_55 (FB), Anekin_75 (AY), Auxilium_71 (AY), BasketStar_74 (AY), BellaJr_66 (FN), BenchScraper_73 (AY), Bhageatrice_77 (AY), BillyTP_74 (AY), BlackSpider_60 (FN), BlueShadow_72 (AY), BrayBeast_56 (FB), Cassini_70 (FN), CookieBear_72 (AY), CosmicBrownie_68 (AY), DarwinJr_78 (AY), Ding_66 (AY), DreamEater_53 (FJ), EvePickles_72 (AY), Faja_76 (AY), GUPitcher_53 (FJ), Gibbzilla_63 (FB), Globfish_73 (AY), Gorpy_72 (AY), GumGum_79 (AY), Hestia_67 (AY), Hillester_77 (AY), Isolde_71 (AY), JakeTheSnake_77 (AY), JeanClaude_54 (FB), JellyBread_71 (AY), Kabloowy_73 (AY), Kukla_56 (FJ), Lasker_74 (AY), Lawnathon_76 (AY), LeBruni_73 (AY), MUWow_74 (AY), Mapleville_69 (AY), MaterMagnus_73 (AY), NewKitty_76 (AY), Nyilah_77 (AY), Persistence_66 (AY), PetriParty_57 (FJ), Phrank15_75 (AY), Pigu_53 (FB), RadFad_77 (AY), Raphaella_74 (AY), Raqqa_69 (AY), Rooter_57 (FB), Sakai_71 (AY), Sarge_51 (FB), Sashimi_70 (AY), Satrap_74 (AY), Shoya_56 (FB), Shukran_70 (AY), SonDevVon_80 (AY), SpicyFrank_75 (AY), Sporco_76 (AY), ThayneTheZag_78 (AY), Tiff81_68 (AY), TripleJ_57 (FJ), Vopal_74 (AY), Windest_77 (AY), Zucker_69 (FN),

Start 143:
• Found in 2 of 1049 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cen1621_38 (EH),

Start 150:
• Found in 9 of 1049 ( 0.9% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 11.1% of time when present
• Phage (with cluster) where this start called: PhillyPhilly_30 (ED1),

Start 151:
• Found in 3 of 1049 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 33.3% of time when present
• Phage (with cluster) where this start called: ThursdayNight_38 (AZ),

Start 153:
• Found in 1 of 1049 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buldak_33 (EB),

Start 154:
• Found in 4 of 1049 ( 0.4% ) of genes in pham
• Manual Annotations of this start: 2 of 901
• Called 50.0% of time when present
• Phage (with cluster) where this start called: MaGuCo_34 (AZ2), Maureen_36 (AZ2),

Start 156:
• Found in 7 of 1049 ( 0.7% ) of genes in pham
• Manual Annotations of this start: 2 of 901
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Music_39 (FL), Vibaki_39 (FL), Vitus_40 (FL),

Start 157:
• Found in 1 of 1049 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yappy_50 (singleton),

Start 160:
• Found in 5 of 1049 ( 0.5% ) of genes in pham
• Manual Annotations of this start: 5 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adumb2043_32 (AZ1), IttyBittyPiggy_33 (AZ1), KeAlii_33 (AZ1), Tallboi_33 (AZ1), Turab_32 (AZ1),

Start 161:
• Found in 123 of 1049 ( 11.7% ) of genes in pham

• Manual Annotations of this start: 101 of 901
• Called 95.9% of time when present
• Phage (with cluster) where this start called: 40AC_59 (A17), AbbyPaige_60 (A2), AceofSpades_40 (AZ4), Acolyte_53 (A2), Agape74_60 (A2), Aliter_58 (A9), Alma_58 (A9), Anselm_59 (A2), Arissanae_57 (A9), Ayanochan_57 (A9), Beemo_58 (A9), Bellris_58 (A9), Benvolio_55 (A2), BobSwaget_54 (A2), BogosyJay_57 (A9), Bugsy_60 (A2), Catalina_59 (A9), Celestialunch_56 (A9), Charm_56 (A9), ChipMunk_60 (A2), CogOmlette_57 (A9), Conquerage_58 (A9), Crucio_58 (A2), D29_56 (A2), D32_59 (A2), DBQu4n_60 (A2), Dalmatian_59 (A2), Darrell_60 (A9), Dignity_60 (A2), DreamTeam1_56 (A9), DudeLittle_57 (A2), Duplo_60 (A2), Echild_58 (A2), Eidsmoe_58 (A9), Elephantoon_57 (A9), Emotion_38 (AZ4), EmyBug_57 (A9), EvilGenius_60 (A2), Fameo_58 (A2), Fayely_58 (A9), FiringLine_58 (A2), FiveHead_43 (AZ4), Footloose_59 (singleton), Georgie2_59 (A2), Heffalump_57 (A2), Herbertwm_56 (A2), HippoHollow_58 (A2), HortumSL17_58 (A9), JasmineDragon_39 (AZ4), Jerm_60 (A2), Jiawan_56 (A9), JohnThicc_39 (AZ4), Journey13_52 (A2), Kerberos_60 (A2), Keziacharles14_58 (A9), KingCyrus_60 (A2), Klodlith_57 (A9), LadyAstra_39 (AZ4), Larenn_57 (A2), Leviathan_60 (A2), LilTurb_59 (A2), Lilleskat_56 (A9), LionsBait_60 (A2), Lokk_55 (A2), LoneWolf_59 (A9), Malec_58 (A2), Maminiaina_57 (A9), MegTheThird_57 (A9), Michkear_34 (AZ), Miko_55 (A2), MiniMommy_40 (AZ4), Minispark_57 (A9), MissWhite_57 (A2), Myxus_58 (A9), Naji_60 (A2), NothingSpecial_56 (A2), Onglai_56 (A9), Origami_39 (AZ4), PackMan_57 (A9), Phaeder_58 (A9), Pharaoh_53 (A12), Phonnegut_58 (A9), Pioneer_58 (A9), Pomar16_60 (A2), Power_57 (A2), Priya_58 (A9), Qobbit_58 (A9), QueenB2_57 (A2), QueenBeesly_58 (A2), Rachaly_57 (A2), Rahalelujah_58 (A9), Refuge_56 (A12), Retro23_59 (A2), RyeScarlet_59 (A9), Sachima_55 (A9), Scherzo_58 (A9), SemperFi_59 (A2), ShakeItOph_39 (AZ4), SheaKeira_56 (A9), Smeagan_61 (A2), SnapTap_58 (A2), Spouty_58 (A9), StarStuff_60 (A2), Steamy_54 (A12), SweetiePie_58 (A2), SwirlSquare_61 (A2), Toaka_58 (A9), Tomathan_60 (A2), Travvers_60 (A2), Tubs_58 (A9), Turbido_59 (A2), Ugenie5_55 (A9), Vanisoa_58 (A9), VroomVroom_39 (AZ4), Whabigail7_59 (A2), WorldCup_57 (A9), Yecey3_59 (A9), Zimmer_55 (A12),

Start 162:
• Found in 64 of 1049 ( 6.1% ) of genes in pham
• Manual Annotations of this start: 35 of 901
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Aneem_58 (A11), Bachome_59 (A11), Bowtie_58 (A11), Bradman_57 (A2), BrutonGaster_100 (CQ2), Bud_57 (A11), DarthPhader_54 (A12), EagleEye_60 (A16), Ebony_57 (A11), Et2Brutus_56 (A11), Fibonacci_57 (A11), Flaverint_58 (A11), Gilberta_58 (A11), Hutc2_57 (A11), Insomnia_58 (A11), Jabith_58 (A11), Joselito_58 (A11), Jsquared_56 (A2), Kimba_57 (A11), Lucivia_58 (A11), MaCh_58 (A11), Mabel_57 (A11), MajorMajor_57 (A2), Mulciber_57 (A11), Munch_58 (A11), OneUp_110 (CQ2), Orange_57 (A11), PainterBoy_59 (A16), Petersenfast_57 (A11), Phlei_47 (A13), Quokka_56 (A2), Salz_56 (A11), Saskia_58 (A11), Serenity_58 (A2), Sham4_57 (A11), Snape_57 (A11), Timothy_57 (A11), TinyTimmy_57 (A11), TipsytheTRex_54 (A2), Wolpertinger_56 (A11),

Start 163:
• Found in 40 of 1049 ( 3.8% ) of genes in pham
• Manual Annotations of this start: 36 of 901
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AGrandiflora_34 (AZ1), Ascela_34 (AZ1), Bantam_85 (DL), Berrie_34 (AZ1), Cassia_34 (AZ1), Community_34 (AZ1), Cyan_33 (AZ1), Daredevil_75 (DL), DatBoi_82 (DL), DrSierra_32 (AZ1), Floof_43 (EH), Flutur_33 (AZ), Iter_34 (AZ1), Janeemi_35 (AZ1), Joemato_33 (AZ1), JohnDoe_33 (AZ1), JuneStar_33 (AZ1), Kaylissa_33 (AZ1), Lego_33 (AZ1), Lizalica_32 (AZ1), Mollymur_85 (DL), Nitro_33 (AZ1), Phives_35 (AZ1), Powerpuff_35 (AZ1), Pumpkins_33 (AZ1), Schaffner_33 (AZ1), Simpson_35 (AZ1), Snek_33 (AZ3), SpeedDemon_860 (DL), Sue2_34 (AZ1), Tbone_32 (AZ1), TforTroy_34 (AZ1), Towmatter_75 (DL), Tuck_36 (AZ1), Tutumahutu_33 (AZ1), Tweety19_33 (AZ3), Warda_33 (AZ1), Wildwest_33 (AZ1), Yang_33 (AZ1), YesChef_33 (AZ1),

Start 164:
• Found in 44 of 1049 ( 4.2% ) of genes in pham
• Manual Annotations of this start: 41 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alatin_45 (CA), Alpacados_45 (CA), Amyev_33 (AZ1), AngryOrchard_44 (CA), AppleCloud_43 (CA), Belenaria_46 (CA), BobbyDazzler_46 (CA), Bonanza_46 (CA), Bradshaw_46 (CA), Bryce_45 (CA), CosmicSans_46 (CA), Crewmate_37 (AZ1), Dinger_45 (CA), Erik_46 (CA), Espica_46 (CA), Gollum_46 (CA), Harlequin_45 (CA), Hiro_46 (CA), Jester_45 (CA), Krishelle_46 (CA), Lillie_46 (CA), Mudpuppy_32 (AZ1), Naiad_45 (CA), Nancinator_46 (CA), Natosaleda_45 (CA), ObiToo_36 (AZ1), Partridge_45 (CA), PhailMary_45 (CA), Phrankenstein_46 (CA), Pixelle_33 (AZ1), RER2_39 (CA), RGL3_40 (CA), Rasputin_46 (CA), RexFury_45 (CA), Rhodalysa_46 (CA), Shuman_46 (CA), StCroix_45 (CA), Swann_46 (CA), TWAMP_46 (CA), Takoda_46 (CA), Tian_33 (AZ1), UhSalsa_46 (CA), Yogi_45 (CA), Yoncess_45 (CA),

Start 165:
• Found in 12 of 1049 ( 1.1% ) of genes in pham
• Manual Annotations of this start: 11 of 901
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Barnstormer_41 (EH), Caron_44 (EH), Forester_41 (EH), GardenState_42 (EH), Gretchen_42 (EH), IAmGroot_42 (EH), Mabodamaca_42 (EH), Percival_43 (EH), SuMoo_44 (EH), SuperHands_41 (EH), UtzChips_41 (EH),

Start 167:
• Found in 9 of 1049 ( 0.9% ) of genes in pham
• Manual Annotations of this start: 6 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_32 (AZ1), Adolin_32 (AZ1), Amploria_32 (AZ1), Asa16_34 (AZ1), DrManhattan_32 (AZ1), Eraser_34 (AZ1), Jstan_36 (AZ1), Niobe_34 (AZ1), Skelbel_35 (AZ1),

Start 168:
• Found in 15 of 1049 ( 1.4% ) of genes in pham
• Manual Annotations of this start: 7 of 901
• Called 66.7% of time when present
• Phage (with cluster) where this start called: AirForce1_46 (FL), BlackJade_54 (FL), Divya_48 (FL), GoldDust_40 (FL), Gooberta_40 (FL), Hirko_38 (FL), Jinkies_45 (FL), LogiBear_62 (A15), SunnyJune_47 (FL), Tailonex_48 (singleton),

Start 169:
• Found in 4 of 1049 ( 0.4% ) of genes in pham
• Manual Annotations of this start: 2 of 901
• Called 75.0% of time when present
• Phage (with cluster) where this start called: MissSwiss_32 (AZ1), PandaPo_32 (AZ1), Reedo_32 (AZ1),

Start 170:
• Found in 13 of 1049 ( 1.2% ) of genes in pham
• Manual Annotations of this start: 12 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abscondus_124 (CQ1), Aphelion_125 (CQ1), Cardigan_131 (DD), ClubL_125 (CQ1), Culver_125 (CQ1), Dusty_122 (CQ1), Geeche_123 (CQ1), JonJames_133 (DD), Lozinak_125 (CQ1), Miskis_120 (CQ1), Norvs_124 (CQ1), Smoothie_126 (CQ1), Yvonnetastic_129 (DD),

Start 171:
• Found in 1 of 1049 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nedarya_60 (A15),

Start 172:
• Found in 35 of 1049 ( 3.3% ) of genes in pham
• Manual Annotations of this start: 33 of 901
• Called 94.3% of time when present
• Phage (with cluster) where this start called: Anaysia_64 (A15), Bachita_128 (CQ1), Battleship_66 (A15), Boohoo_64 (A15), Cucurbita_126 (CQ1), DekHockey33_65 (A15), EmiRose_45 (singleton), Engineer_127 (CQ1), Epsocamisio_61 (A15), Honk_39 (EH), JSwag_63 (A15), KatherineG_64 (A15), LastNadiia_6 (FR), LastResort_62 (A15), Looper_63 (A15), Makima_4 (FR), MinecraftSteve_64 (A15), Mireles_3 (FR), Nebulosus_62 (A15), Oofda_65 (A15), PhinkBoden_125 (CQ1), Ravana_66 (A15), ReMo_62 (A15), Remus_64 (A15), Rosalind_62 (A15), ShayRa_64 (A15), Soups_64 (A15), Strosahl_64 (A15), Switzerland_63 (A15), Toniann_125 (CQ1), Waits_64 (A15), Warrior24_66 (A15), WilliamBoone_123 (CQ1),

Start 173:
• Found in 11 of 1049 ( 1.0% ) of genes in pham
• Manual Annotations of this start: 9 of 901
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Anon_61 (A15), Ashes_31 (AZ5), BFK20_ORF53 (singleton), Beaupre_31 (AZ5), Cappuccino_31 (AZ5), Halsey_31 (AZ5), Lucyedi_59 (A16), Moss_31 (AZ5), RockScotty_31 (AZ5), SpecialK_31 (AZ5),

Start 174:
• Found in 11 of 1049 ( 1.0% ) of genes in pham
• Manual Annotations of this start: 10 of 901
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Candle_40 (R), MontyDev_40 (R), Nilo_41 (R), Papyrus_40 (R), Riparian_40 (R), Rope_40 (R), Send513_40 (R), Weiss13_40 (R), Yelo_40 (R), Zenon_41 (R),

Start 175:

• Found in 63 of 1049 ( 6.0% ) of genes in pham
• Manual Annotations of this start: 54 of 901
• Called 98.4% of time when present
• Phage (with cluster) where this start called: Akoni_9 (EK2), Alex44_9 (EK1), AloeVera_9 (EK2), ArMaWen_9 (EK1), Ashton_9 (EK2), Astartes_9 (EK2), Atraxi_9 (EK2), Barroma_9 (EK2), Biozilla_9 (EK1), Birdfeeder_9 (EK1), CherryTomatoes_78 (DO), Conditioner_9 (EK1), Corn21_9 (EK1), Count_87 (EL), CrunchyBoi_10 (EK1), Dashyla_9 (EK1), DumpQuist_9 (EK1), EugeneKrabs_9 (EK), Fede_9 (EK2), Fullmetal_9 (EK2), HitchHiker_10 (EK1), JessellCookie_9 (EK1), JordanFarm_9 (EK2), Keough_9 (EK2), KingKamren_9 (EK), Kosier_9 (EK2), LilyLou_9 (EK1), Mazun_9 (EK2), MiamiPanther_9 (EK1), Moleficent_9 (EK2), Morrill_9 (EK2), Oatly_9 (EK1), Pabst_9 (EK1), Pharky_9 (EK2), Phedro_9 (EK2), Phogo_9 (EK1), Phractured_9 (EK2), PhriedRice_9 (EK2), PineapplePluto_10 (EK1), Pupper_77 (DO), RicoCaldo_9 (EK2), SCentae_76 (DO), Salvatore2000_9 (EK1), ShyRosie_9 (EK2), Skog_140 (DO), SoilSleuth_9 (EK2), Sorvannah_9 (EK1), StagePhright_9 (EK2), Stormbreaker_9 (EK1), SwissCheezer_9 (EK1), ThirteenKH_9 (EK2), TicTac_9 (EK1), TinyTimothy_9 (EK1), TrippleS_9 (EK2), Truong_9 (EK2), Unphazed_9 (EK1), Waterlily_9 (EK2), Wesak_9 (EK1), Xitlalli_9 (EK1), Yafa_9 (EK2), YellowPanda_9 (EK1), Zhengyi_9 (EK),

Start 176:
• Found in 50 of 1049 ( 4.8% ) of genes in pham
• Manual Annotations of this start: 12 of 901
• Called 34.0% of time when present
• Phage (with cluster) where this start called: AnnabelLee_3 (FR), Armstrong_33 (EB), Bernstein_33 (EB), Brahms_33 (EB), CardboardBox_3 (FR), ChamoyPickle_3 (FR), ChiliPepper_33 (EB), ChipsNGuac_3 (FR), Coltrane_33 (EB), Ezurina_2 (FR), Gerri43_3 (FR), Kumao_40 (singleton), Neuvillette_3 (FR), Roberts_3 (FR), Rollins_33 (EB), Sharkboy_35 (EB), Studio_2 (FR),

Start 177:
• Found in 5 of 1049 ( 0.5% ) of genes in pham
• Manual Annotations of this start: 4 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaboJay_37 (E), BaileyBlu_34 (FP), Bogg_38 (E), Eureka_38 (E), Goku_38 (E),

Start 178:
• Found in 139 of 1049 ( 13.3% ) of genes in pham
• Manual Annotations of this start: 4 of 901
• Called 2.9% of time when present
• Phage (with cluster) where this start called: CallinAllBarbz_34 (FP), ExplosioNervosa_58 (A9), JimmyPG_9 (EK2), Pitbull_58 (FQ1),

Start 179:
• Found in 106 of 1049 ( 10.1% ) of genes in pham
• Manual Annotations of this start: 71 of 901
• Called 70.8% of time when present
• Phage (with cluster) where this start called: Acquire49_30 (L1), Agamotto_5 (FR), Appletree2_30 (L1), Archie_32 (L2), Audell_6 (FR), AvadaKedavra_30 (L1), Baoshan_31 (L2), Bazzle_32 (L2), Bellis_31 (L3), BigCheese_32 (L2), BobsGarage_32 (L2), Breezona_32 (L2), Bromden_32 (L4), Calm_30 (L1), Chaser_30 (L4), ChutneyChips_31 (L4), CicholasNage_30 (L1), Clautastrophe_31

(L3), Crossroads_32 (L2), Douge_30 (L4), DrSeegs_32 (L2), DuncansLeg_31 (L3), DyoEdafos_31 (L4), Ellson_31 (L3), Enceladus_30 (L1), Faith1_32 (L2), Finemlucis_32 (L2), Finnry_31 (L3), Gabriela_32 (L2), Gardann_32 (L2), GuuelaD_32 (L2), Halena_30 (L1), Itos_32 (L2), JoeDirt_30 (L1), Jubie_31 (L3), Kikiko_7 (EM2), Kingsolomon_31 (L3), Kropertea_30 (L4), Krypton555_31 (L3), LeBron_30 (L1), LilDestine_32 (L2), LiyuLake_31 (L3), Loadrie_32 (L2), Lolly9_31 (L3), Lumos_31 (L3), MAckerman_30 (L1), Miley16_32 (L2), MiniLon_31 (L3), MiniMac_31 (L3), MkaliMitinis3_32 (L2), MsGreen_31 (L3), Netyap_32 (L2), Nicholas_31 (L3), Nicholasp3_32 (L2), OhShagHennessy_30 (L1), OverPar_32 (L2), Poochiewood_30 (L1), Rose5_30 (L1), Samty_31 (L3), Silverleaf_30 (L1), Snenia_31 (L3), Tourach_32 (L2), TriFive_31 (L3), TripleC_6 (FR), UPIE_30 (L1), Underpass_32 (L2), Vetrix_32 (L2), Wamburgrxpress_30 (L1), Whirlwind_32 (L3), Wigglewiggle_32 (L2), Wilder_32 (L2), Winky_32 (L2), Wyatt2_30 (L1), Zakai_32 (L2), Zaria_30 (L1),

Start 180:
• Found in 181 of 1049 ( 17.3% ) of genes in pham
• Manual Annotations of this start: 162 of 901
• Called 98.3% of time when present
• Phage (with cluster) where this start called: 244_39 (E), ABCat_36 (E), Adnama_40 (E), Aikoy_52 (AE), AinMach_35 (AZ7), Amao_37 (E), AmericanBeauty_39 (E), Argent26_39 (E), Asriel_36 (E), BAKA_56 (J), BadStone_36 (E), Bagrid_51 (J), Balomoji_36 (E), Barbarian_36 (E), Bask21_37 (E), Becksu_37 (E), Beem_52 (J), Bench_39 (E), BigBubba_38 (E), BilboSwaggins_37 (E), Bobby_51 (J), Bombitas_49 (J), Brewer_37 (E), Bruin_37 (E), Buck_36 (E), Budgie_39 (E), BugsBunny_35 (E), Cactus_38 (E), ChosenOne_37 (E), ChotaBhai_37 (E), Cjw1_37 (E), Command613_38 (E), Constella_44 (J), Contagion_36 (E), Cookies_37 (E), CrystalP_37 (E), Czyszczon1_38 (E), Daikon_36 (E), Dallas_54 (J), DmpstrDiver_53 (J), DoctorDiddles_37 (E), Dove_49 (J), DrDrey_38 (E), Duke13_55 (J), Dumbo_37 (E), Dusk_36 (E), Easy2Say_39 (E), Ejimix_52 (J), Elite2014_36 (E), Elph10_38 (E), Emmina_38 (E), EricMillard_52 (J), FairyPath_37 (E), Filch_38 (E), FireRed_37 (E), Flypotenuse_35 (E), FoghornLeghorn_36 (E), Gage_39 (E), Gator_35 (E), Gemini_40 (E), Glexan_35 (E), GoldenSpark_39 (E), Goldilocks_38 (E), GooberAzure_39 (E), Greep_38 (E), Halley_52 (J), HanKaySha_38 (E), Hannaconda_48 (J), Harella_36 (E), Henry_38 (E), Highbury_38 (E), HokkenD_45 (J), Holt_38 (E), Hoonter_39 (E), Hopey_39 (E), HufflyPuff_36 (E), Hughesyang_50 (J), Icee_36 (E), Inca_36 (E), JeTaime_39 (E), JuicyJay_54 (J), Kalah2_52 (J), Kanye_39 (E), KashFlow_45 (J), Kimchi_39 (E), Klein_52 (J), Kostya_38 (E), Leopard_52 (AE), Lilac_39 (E), Lilizi_39 (E), Lilpickle_36 (E), Livelaughbron_38 (E), MISSy_36 (E), MPhalcon_36 (E), MadamMonkfish_37 (E), Manda_38 (E), Marshmallow_37 (E), Maxxinista_38 (E), Mindy_37 (E), Minerva_58 (J), Miniwave_37 (E), Misfit_37 (E), Moldemort_38 (E), MollyToe_37 (E), Mosby_36 (E), Murica_36 (E), Murphy_38 (E), Myrale_37 (E), Nala_37 (E), NelitzaMV_37 (E), Nibley_46 (J), NihilNomen_51 (J), Nimrod_37 (E), NoSleep_38 (E), NonchalantPear_37 (E), Odette_52 (J), Onyinye_53 (AE), Optimus_57 (J), OrionPax_38 (E), PaddyBaddy_38 (E), Palpatine_37 (E), Paperbeatsrock_39 (E), Pat3_36 (E), Petra64142_39 (E), Pharsalus_38 (E), PhatBacter_37 (E), Phaux_36 (E), Phoebus_51 (J), Phrux_37 (E), Policronamos_37 (E), Porky_37 (E), Pound_54 (J), Ptowny_38 (E), Pumpkin_39 (E), Quallification_38 (E), Rakim_38 (E), Rearden_46 (J), Redno2_50 (J), Rimmer_36 (E), RiverMonster_37 (E), Saints25_38 (E), Sassay_36 (E), Schatzie_49 (J), ShamWow_37 (E), Simpliphy_38 (E), SirDuracell_36 (E), SophKB_37 (E), Sotrice96_37 (E), Stank_40 (E), Stark_38 (E), StellaBean_37 (E), StolenFromERC_39 (E), StormChicken_37 (E), TBrady12_39 (E), Tarkin_39 (E), TeamEdward_37 (E), TeardropMSU_36 (E), Teaspoon_38 (E), Terminus_37 (E),

Thimble_37 (E), ThreeRngTarjay_50 (J), Thresher_38 (E), Tomaszewski_36 (E), Toto_37 (E), Traaww1_35 (E), Tuco_38 (E), Ukulele_37 (E), Wanda_58 (J), Wiggin_40 (E), Willez_36 (E), Xandras_39 (E), Xiaokay_47 (J), YassJohnny_38 (E), Yeet_50 (J), Youngblood_37 (E), Zelink_53 (J), Zeta1847_35 (EH), xkcd_38 (E),

Start 181:
• Found in 14 of 1049 ( 1.3% ) of genes in pham
• Manual Annotations of this start: 12 of 901
• Called 92.9% of time when present
• Phage (with cluster) where this start called: AddiRose_51 (JA), Daddyjeff_52 (JA), Eevee_51 (JA), JoyLin_51 (JA), Kumotta_57 (FB), MargaretKali_53 (FB), MissAmericana_7 (EM2), Mistmere_28 (ED3), Pippin15_52 (JA), ScoobyDoobyDoo_73 (C2), Serenabean_52 (JA), Sweetclover_51 (JA), Yotsuba_51 (JA),

Start 182:
• Found in 57 of 1049 ( 5.4% ) of genes in pham
• Manual Annotations of this start: 43 of 901
• Called 96.5% of time when present
• Phage (with cluster) where this start called: ASegato_34 (ED2), Alleb_29 (ED1), Artu_100 (FC), Atuin_102 (FC), Azrael100_52 (V), BooTeria_98 (FC), Casablancas_36 (ED2), Cosmo_53 (V), DejaVu_31 (ED1), Deschain_35 (ED2), DunneganBoMo_97 (FC), DustyDino_38 (ED2), Ellewin_96 (FC), Emmetator_100 (FC), EniyanLRS_50 (V), Erenyeager_35 (ED2), Fork_31 (ED2), Greely_81 (C2), HollowPurple_36 (ED2), Hortus1_28 (ED1), Hubbs_30 (ED1), Issa7_34 (ED2), Jacko_31 (ED1), KSunshine22_102 (FC), LeoJr_107 (FC), Lupine_29 (ED1), Lyell_35 (ED2), MaryV_53 (V), Musetta_35 (ED2), Myrna_77 (C2), Necrophoxinus_37 (ED2), OlinDD_28 (ED1), Panchaali_99 (FC), Pavlo_29 (ED1), Phabba_83 (C2), Pioneer3_28 (ED1), Platte_28 (ED1), ReginaGlobina_107 (FC), Roman_30 (ED1), RunningBrook_36 (ED2), Saradis_31 (ED1), Shroomer_39 (ED2), Shweta_51 (N), Solimine_31 (ED1), SteakFry_37 (ED2), StevieWelch_35 (ED2), Stewart25555_99 (FC), Stuck_65 (I2), Tandem_28 (ED1), Uterion_32 (ED1), WaddleDee_95 (FC), Welcome_36 (ED2), Wildcat_53 (V), Wolfstar_31 (ED), Yuma_34 (ED2),

Start 183:
• Found in 64 of 1049 ( 6.1% ) of genes in pham
• Manual Annotations of this start: 16 of 901
• Called 31.2% of time when present
• Phage (with cluster) where this start called: A3Wally_218 (GD1), Altostratus_60 (FS), Big4_204 (GD2), Cece_195 (GD3), Dodo_214 (GD1), Elfy_29 (FP), Erasmago_208 (GD2), Exile_31 (AZ6), GrimEater_30 (FP), Indlulamithi_37 (AC), Jankie_31 (FP), Khuang_61 (FS), LisoBros_35 (FP), Mbo4_60 (singleton), Orkz_49 (FL), PauloDiaboli_218 (GD1), Pumpernickel_201 (GD4), Soondubu_31 (AZ6), TMaxx_3 (FR), Zooman_185 (GD2),

Start 184:
• Found in 89 of 1049 ( 8.5% ) of genes in pham
• Manual Annotations of this start: 74 of 901
• Called 91.0% of time when present
• Phage (with cluster) where this start called: Abigail_35 (EB), Akino08_37 (EB), Albedo_36 (EB), Albright_34 (EB), AnnaLie_37 (EB), Arroyo_37 (EB), AvGardian_38 (EB), Avocadoman_35 (EB), AylexOG_38 (EB), BabyDaisy_35 (EB), BabyYoda_37

(EB), Bachaco_34 (EB), BelmontSKP_37 (EB), Bengal_37 (EB), BubbaBear_35 (EB), Burritobowl_36 (EB), CanFranMach_37 (EB), Cashington_34 (EB), Celaena_34 (EB), Clayda5_34 (EB), CliffHanger_37 (EB), CroZenni_36 (EB), CupcakePrincess_37 (EB), DickRichards_35 (EB), Didgeridoo_38 (EB), DirtyBubble_36 (EB), Dismas_34 (EB), Doobus_35 (EB), Eden_34 (EB), Elva_38 (EB), Eula_37 (EB), Finalfrontier_36 (EB), FlameThrower_34 (EB), Franklin22_35 (EB), Gack_33 (EB), Grist_35 (EB), Icarian_39 (EB), IndyLu_35 (EB), Jabb_37 (EB), Johnathan_35 (EB), Jovita_37 (EB), Kamdara_34 (EB), Kate33_36 (EB), Katzastrophic_35 (EB), Kenzers_36 (EB), Kieran_34 (EB), Lahqtemish_35 (EB), Lilo27_37 (EB), LimaBean_35 (EB), Loviatar_37 (EB), Lynlen_36 (EB), Milomuff_36 (EB), MsUbiquitous_37 (EB), Nicky22_37 (EB), Olliecat_33 (EB), PastaFagioli_35 (EB), Pecas_36 (EB), PhigPhack_37 (EB), Phisb_37 (EB), PondAmelia_38 (EB), QMacho_38 (EB), Quenya_35 (EB), Rona_34 (EB), SanaSana_39 (EB), SansAfet_37 (EB), SarBear_36 (EB), Shayna_36 (EB), SirBeanington_36 (EB), Skylord_33 (EB), Slay_37 (EB), Softsoap_36 (EB), Solea_37 (EB), Squircle_33 (EB), Stoor_37 (EB), Stromboli_37 (EB), SunnyD_36 (EB), Swervy_37 (EB), Teagster_37 (EB), TukTuk_37 (EB), Vitas_33 (EB), WalkingDead_38 (EB),

Start 185:
• Found in 29 of 1049 ( 2.8% ) of genes in pham
• Manual Annotations of this start: 20 of 901
• Called 72.4% of time when present
• Phage (with cluster) where this start called: BAjuniper_35 (EB), Banquo_62 (CU1), BarnCat_46 (GB), Cassita_54 (GB), Catfish_63 (CU5), DS6A_74 (singleton), Dardanus_57 (CU3), DinoDaryn_63 (CU1), Goib_64 (CU1), Gsput1_55 (CU2), Huffy_63 (CU1), LeeroyJenkins_54 (GB), Lifes_48 (GB), Schmidt_57 (CU4), Splinter_63 (CU1), TZGordon_64 (CU1), TinaLin_62 (CU1), Vendetta_63 (CU1), WaterT_52 (GB), Zooman_18 (GD2), Zooman_331 (GD2),

Start 186:
• Found in 1 of 1049 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_36 (UNK),

Start 187:
• Found in 61 of 1049 ( 5.8% ) of genes in pham
• Manual Annotations of this start: 14 of 901
• Called 23.0% of time when present
• Phage (with cluster) where this start called: A3Wally_20 (GD1), A3Wally_373 (GD1), Big4_20 (GD2), Big4_346 (GD2), Dodo_21 (GD1), Dodo_367 (GD1), Fryberger_117 (DP), Guey18_121 (DP), Keelan_118 (DP), PauloDiaboli_20 (GD1), PauloDiaboli_375 (GD1), Ronaldo_118 (DP), Volt_121 (DP), Ziko_119 (DP),

Start 188:
• Found in 43 of 1049 ( 4.1% ) of genes in pham
• No Manual Annotations of this start.
• Called 2.3% of time when present
• Phage (with cluster) where this start called: Bluvara_58 (I3),

Start 189:
• Found in 115 of 1049 ( 11.0% ) of genes in pham
• Manual Annotations of this start: 10 of 901

• Called 10.4% of time when present
• Phage (with cluster) where this start called: Ariel_51 (J), Courthouse_51 (J), Hidrated_50 (J), LittleE_56 (J), Lucky2013_51 (J), MiaZeal_51 (J), Nekros_50 (J), Omega_56 (J), Porcelain_50 (J), Red305_31 (L3), Superphikiman_51 (J), Thibault_45 (J),

Start 195:
• Found in 72 of 1049 ( 6.9% ) of genes in pham
• Manual Annotations of this start: 2 of 901
• Called 4.2% of time when present
• Phage (with cluster) where this start called: Aegeus_33 (L5), Baudelaire_33 (L5), Gimesa_41 (R),

Start 196:
• Found in 20 of 1049 ( 1.9% ) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 25.0% of time when present
• Phage (with cluster) where this start called: BronnyJames_44 (J), Gonephishing_53 (J), Marleymoo_53 (J), Shaboozey_44 (J), Squint_50 (J),

Start 198:
• Found in 105 of 1049 ( 10.0% ) of genes in pham
• Manual Annotations of this start: 8 of 901
• Called 26.7% of time when present
• Phage (with cluster) where this start called: BourbonZero_30 (L3), BrainDrainer_31 (L4), ChengKai98_32 (L2), Claus_32 (L2), DHan_32 (L2), DanBing_31 (L2), DirkDirk_30 (L1), Douzhi_30 (L4), FarmResident_30 (L4), Hafay_32 (L2), Hiraya_32 (L2), Jobypre_31 (L3), Kahlid_32 (L2), KirDoubleO7_29 (L3), Lewan_32 (L2), Lynnae_32 (L2), Molivier_32 (L2), Moostard_31 (L3), PYPDinur_30 (L4), Quby_30 (L4), Rossetti_32 (L2), Rumpelstiltskin_32 (L2), Sarshaun_32 (L2), Sheng711_30 (L4), SoJulia_33 (L2), Soap141_32 (L2), Tyson_30 (L1), ZhongYanYuan_31 (L2),

Start 202:
• Found in 52 of 1049 ( 5.0% ) of genes in pham
• Manual Annotations of this start: 2 of 901
• Called 9.6% of time when present
• Phage (with cluster) where this start called: EdogawaKiddo_56 (A9), Hanray_56 (A9), Holex_57 (A9), IUFootball_36 (AZ2), Liebe_36 (AZ2),

Start 205:
• Found in 156 of 1049 ( 14.9% ) of genes in pham
• Manual Annotations of this start: 3 of 901
• Called 1.9% of time when present
• Phage (with cluster) where this start called: IHOP_37 (E), Phaja_37 (E), ShereKhan_39 (E),

Start 207:
• Found in 51 of 1049 ( 4.9% ) of genes in pham
• No Manual Annotations of this start.
• Called 2.0% of time when present
• Phage (with cluster) where this start called: RoseMarie_41 (M1),

**Summary by clusters:**

There are 74 clusters represented in this pham: FP, GD1, GD2, FS, GD4, DO, DL, DD, V, FR, ED2, ED3, FB, ED1, M1, CU4, GD3, AE, FJ, FL, JA, FN, A15, CU5, AZ, A11, CU2, CU1, A12, I3, I2, A2, DP, A13, A9, C2, CQ1, EL, AC, E, EH, EK, ED, CA, J, A17, L5, EB, L4, R, L2, L3, L1, AY, CU3, singleton, UNK, A16, A20, AZ3, CQ2, AZ7, AZ5, N, FC, AZ6, EM2, AZ1, AZ2, FQ1, AZ4, EK2, EK1, GB,

Info for manual annotations of cluster A11:
•Start number 162 was manually annotated 27 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 161 was manually annotated 4 times for cluster A12.
•Start number 162 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A15:
•Start number 171 was manually annotated 1 time for cluster A15.
•Start number 172 was manually annotated 22 times for cluster A15.
•Start number 173 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A16:
•Start number 162 was manually annotated 2 times for cluster A16.
•Start number 173 was manually annotated 1 time for cluster A16.

Info for manual annotations of cluster A2:
•Start number 137 was manually annotated 11 times for cluster A2.
•Start number 161 was manually annotated 51 times for cluster A2.
•Start number 162 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 137 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A9:
•Start number 161 was manually annotated 37 times for cluster A9.
•Start number 178 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AC:
•Start number 183 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:
•Start number 180 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster AY:
•Start number 90 was manually annotated 6 times for cluster AY.
•Start number 138 was manually annotated 38 times for cluster AY.

Info for manual annotations of cluster AZ:
•Start number 151 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 160 was manually annotated 5 times for cluster AZ1.
•Start number 163 was manually annotated 27 times for cluster AZ1.

•Start number 164 was manually annotated 5 times for cluster AZ1.
•Start number 167 was manually annotated 6 times for cluster AZ1.
•Start number 169 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 154 was manually annotated 2 times for cluster AZ2.
•Start number 202 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 163 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 161 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 173 was manually annotated 7 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 183 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster C2:
•Start number 181 was manually annotated 1 time for cluster C2.
•Start number 182 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster CA:
•Start number 164 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster CQ1:
•Start number 170 was manually annotated 9 times for cluster CQ1.
•Start number 172 was manually annotated 6 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 162 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CU1:
•Start number 185 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 185 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 185 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 185 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DD:
•Start number 170 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DL:
•Start number 163 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DO:
•Start number 175 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DP:
•Start number 187 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster E:
•Start number 177 was manually annotated 3 times for cluster E.
•Start number 180 was manually annotated 128 times for cluster E.
•Start number 205 was manually annotated 3 times for cluster E.

Info for manual annotations of cluster EB:
•Start number 153 was manually annotated 1 time for cluster EB.
•Start number 176 was manually annotated 7 times for cluster EB.
•Start number 184 was manually annotated 74 times for cluster EB.
•Start number 185 was manually annotated 1 time for cluster EB.

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

Info for manual annotations of cluster ED1:
•Start number 150 was manually annotated 1 time for cluster ED1.
•Start number 182 was manually annotated 12 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 182 was manually annotated 15 times for cluster ED2.

Info for manual annotations of cluster EH:
•Start number 143 was manually annotated 1 time for cluster EH.
•Start number 163 was manually annotated 1 time for cluster EH.
•Start number 165 was manually annotated 11 times for cluster EH.
•Start number 172 was manually annotated 1 time for cluster EH.
•Start number 180 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster EK:
•Start number 175 was manually annotated 3 times for cluster EK.

Info for manual annotations of cluster EK1:
•Start number 175 was manually annotated 24 times for cluster EK1.

Info for manual annotations of cluster EK2:
•Start number 175 was manually annotated 22 times for cluster EK2.
•Start number 178 was manually annotated 1 time for cluster EK2.

Info for manual annotations of cluster EL:
•Start number 175 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster EM2:
•Start number 181 was manually annotated 1 time for cluster EM2.

Info for manual annotations of cluster FB:

•Start number 138 was manually annotated 6 times for cluster FB.
•Start number 181 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FC:
•Start number 182 was manually annotated 6 times for cluster FC.

Info for manual annotations of cluster FJ:
•Start number 138 was manually annotated 4 times for cluster FJ.

Info for manual annotations of cluster FL:
•Start number 156 was manually annotated 2 times for cluster FL.
•Start number 168 was manually annotated 7 times for cluster FL.

Info for manual annotations of cluster FN:
•Start number 107 was manually annotated 1 time for cluster FN.
•Start number 138 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FP:
•Start number 177 was manually annotated 1 time for cluster FP.
•Start number 178 was manually annotated 1 time for cluster FP.
•Start number 183 was manually annotated 4 times for cluster FP.

Info for manual annotations of cluster FQ1:
•Start number 178 was manually annotated 1 time for cluster FQ1.

Info for manual annotations of cluster FR:
•Start number 172 was manually annotated 3 times for cluster FR.
•Start number 176 was manually annotated 4 times for cluster FR.
•Start number 179 was manually annotated 3 times for cluster FR.
•Start number 183 was manually annotated 1 time for cluster FR.

Info for manual annotations of cluster FS:
•Start number 183 was manually annotated 2 times for cluster FS.

Info for manual annotations of cluster GB:
•Start number 185 was manually annotated 5 times for cluster GB.

Info for manual annotations of cluster GD1:
•Start number 183 was manually annotated 3 times for cluster GD1.
•Start number 187 was manually annotated 6 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 183 was manually annotated 2 times for cluster GD2.
•Start number 185 was manually annotated 2 times for cluster GD2.
•Start number 187 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 183 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 183 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster I2:

•Start number 182 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster J:
•Start number 180 was manually annotated 30 times for cluster J.
•Start number 189 was manually annotated 10 times for cluster J.
•Start number 196 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster JA:
•Start number 181 was manually annotated 8 times for cluster JA.

Info for manual annotations of cluster L1:
•Start number 179 was manually annotated 17 times for cluster L1.
•Start number 198 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 179 was manually annotated 28 times for cluster L2.
•Start number 198 was manually annotated 4 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 179 was manually annotated 17 times for cluster L3.
•Start number 198 was manually annotated 2 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 179 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 195 was manually annotated 2 times for cluster L5.

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

Info for manual annotations of cluster R:
•Start number 174 was manually annotated 10 times for cluster R.

Info for manual annotations of cluster UNK:
•Start number 186 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster V:
•Start number 182 was manually annotated 5 times for cluster V.

### *Gene Information:*

Gene: 244_39 Start: 33415, Stop: 33660, Start Num: 180
Candidate Starts for 244_39:
(Start: 180 @33415 has 162 MA's), (Start: 205 @33472 has 3 MA's), (221, 33505), (223, 33511), (254, 33565), (262, 33577),

Gene: 40AC_59 Start: 39531, Stop: 39259, Start Num: 161
Candidate Starts for 40AC_59:

(Start: 161 @39531 has 101 MA's), (Start: 187 @39510 has 14 MA's), (Start: 189 @39504 has 10 MA's), (224, 39417), (244, 39381), (262, 39351),

Gene: A3Wally_218 Start: 118317, Stop: 118063, Start Num: 183
Candidate Starts for A3Wally_218:
(Start: 183 @118317 has 16 MA's), (236, 118203), (252, 118176), (274, 118131),

Gene: A3Wally_20 Start: 7196, Stop: 7426, Start Num: 187
Candidate Starts for A3Wally_20:
(Start: 187 @7196 has 14 MA's), (210, 7268), (292, 7415),

Gene: A3Wally_373 Start: 186417, Stop: 186647, Start Num: 187
Candidate Starts for A3Wally_373:
(Start: 187 @186417 has 14 MA's), (210, 186489), (292, 186636),

Gene: ABCat_36 Start: 33127, Stop: 33372, Start Num: 180
Candidate Starts for ABCat_36:
(Start: 180 @33127 has 162 MA's), (Start: 205 @33184 has 3 MA's), (221, 33217), (223, 33223), (254, 33277), (262, 33289),

Gene: AEgle_32 Start: 24443, Stop: 24685, Start Num: 167
Candidate Starts for AEgle_32:
(Start: 167 @24443 has 6 MA's),

Gene: AGrandiflora_34 Start: 24670, Stop: 24936, Start Num: 163
Candidate Starts for AGrandiflora_34:
(43, 24412), (55, 24448), (Start: 163 @24670 has 36 MA's), (259, 24853),

Gene: AN9_61 Start: 38705, Stop: 38394, Start Num: 137
Candidate Starts for AN9_61:
(Start: 137 @38705 has 12 MA's), (Start: 162 @38666 has 35 MA's), (Start: 178 @38657 has 4 MA's), (220, 38564), (244, 38516), (262, 38486),

Gene: ANI8_61 Start: 38705, Stop: 38394, Start Num: 137
Candidate Starts for ANI8_61:
(Start: 137 @38705 has 12 MA's), (Start: 162 @38666 has 35 MA's), (Start: 178 @38657 has 4 MA's), (220, 38564), (244, 38516), (262, 38486),

Gene: ASegato_34 Start: 9990, Stop: 10244, Start Num: 182
Candidate Starts for ASegato_34:
(Start: 162 @9975 has 35 MA's), (Start: 182 @9990 has 43 MA's), (199, 10035), (223, 10086), (231, 10104), (238, 10122), (243, 10134),

Gene: AbbyDaisy_76 Start: 41022, Stop: 41339, Start Num: 138
Candidate Starts for AbbyDaisy_76:
(Start: 90 @40953 has 6 MA's), (Start: 138 @41022 has 50 MA's), (221, 41172),

Gene: AbbyPaige_60 Start: 38775, Stop: 38503, Start Num: 161
Candidate Starts for AbbyPaige_60:
(Start: 161 @38775 has 101 MA's), (Start: 178 @38766 has 4 MA's), (Start: 187 @38754 has 14 MA's), (Start: 189 @38748 has 10 MA's),

Gene: Abigail_35 Start: 24992, Stop: 25222, Start Num: 184

Candidate Starts for Abigail_35:
(Start: 184 @24992 has 74 MA's),

Gene: Abscondus_124 Start: 70975, Stop: 71268, Start Num: 170
Candidate Starts for Abscondus_124:
(Start: 170 @70975 has 12 MA's), (Start: 195 @71023 has 2 MA's), (255, 71152),

Gene: AceofSpades_40 Start: 26694, Stop: 27029, Start Num: 161
Candidate Starts for AceofSpades_40:
(68, 26532), (Start: 161 @26694 has 101 MA's),

Gene: Acolyte_53 Start: 37597, Stop: 37325, Start Num: 161
Candidate Starts for Acolyte_53:
(Start: 161 @37597 has 101 MA's), (Start: 178 @37588 has 4 MA's), (Start: 187 @37576 has 14 MA's), (Start: 189 @37570 has 10 MA's), (201, 37534), (221, 37492), (244, 37447),

Gene: Acquire49_30 Start: 27690, Stop: 27959, Start Num: 179
Candidate Starts for Acquire49_30:
(Start: 179 @27690 has 71 MA's), (Start: 198 @27735 has 8 MA's), (257, 27843),

Gene: AdaS_70 Start: 36753, Stop: 37049, Start Num: 138
Candidate Starts for AdaS_70:
(Start: 90 @36693 has 6 MA's), (Start: 138 @36753 has 50 MA's), (270, 36969), (285, 37002),

Gene: AddiRose_51 Start: 34005, Stop: 34238, Start Num: 181
Candidate Starts for AddiRose_51:
(Start: 181 @34005 has 12 MA's), (241, 34140),

Gene: Adnama_40 Start: 33642, Stop: 33887, Start Num: 180
Candidate Starts for Adnama_40:
(Start: 180 @33642 has 162 MA's), (Start: 205 @33699 has 3 MA's), (221, 33732), (223, 33738), (254, 33792), (262, 33804),

Gene: Adolin_32 Start: 23104, Stop: 23349, Start Num: 167
Candidate Starts for Adolin_32:
(24, 22735), (43, 22849), (55, 22885), (Start: 167 @23104 has 6 MA's),

Gene: Adumb2043_32 Start: 24438, Stop: 24704, Start Num: 160
Candidate Starts for Adumb2043_32:
(13, 23982), (43, 24183), (55, 24219), (Start: 160 @24438 has 5 MA's), (259, 24621),

Gene: Adzzy_59 Start: 37247, Stop: 36975, Start Num: 137
Candidate Starts for Adzzy_59:
(Start: 137 @37247 has 12 MA's), (201, 37184), (223, 37136), (244, 37097), (251, 37085), (262, 37067),

Gene: Aegeus_33 Start: 27825, Stop: 28055, Start Num: 195
Candidate Starts for Aegeus_33:
(Start: 179 @27789 has 71 MA's), (193, 27816), (Start: 195 @27825 has 2 MA's), (207, 27852), (221, 27882), (228, 27903), (257, 27942), (259, 27945), (262, 27948), (291, 28005), (295, 28014),

Gene: Agamotto_5 Start: 4114, Stop: 4374, Start Num: 179
Candidate Starts for Agamotto_5:

(Start: 179 @4114 has 71 MA's), (Start: 183 @4117 has 16 MA's),

Gene: Agape74_60 Start: 38769, Stop: 38497, Start Num: 161
Candidate Starts for Agape74_60:
(Start: 161 @38769 has 101 MA's), (Start: 178 @38760 has 4 MA's), (Start: 187 @38748 has 14 MA's), (Start: 189 @38742 has 10 MA's), (244, 38619),

Gene: Aikoy_52 Start: 39434, Stop: 39189, Start Num: 180
Candidate Starts for Aikoy_52:
(Start: 180 @39434 has 162 MA's), (207, 39374), (220, 39347), (233, 39308), (254, 39284), (257, 39278), (262, 39272), (274, 39248),

Gene: Aikyam_72 Start: 37441, Stop: 37758, Start Num: 138
Candidate Starts for Aikyam_72:
(Start: 138 @37441 has 50 MA's), (223, 37597), (233, 37627), (244, 37636), (255, 37654),

Gene: AinMach_35 Start: 25558, Stop: 25839, Start Num: 180
Candidate Starts for AinMach_35:
(78, 25390), (Start: 161 @25534 has 101 MA's), (Start: 180 @25558 has 162 MA's), (255, 25723),

Gene: AirForce1_46 Start: 33134, Stop: 33424, Start Num: 168
Candidate Starts for AirForce1_46:
(103, 33035), (Start: 168 @33134 has 7 MA's), (Start: 195 @33185 has 2 MA's), (201, 33200), (248, 33302), (254, 33314),

Gene: Akino08_37 Start: 27416, Stop: 27649, Start Num: 184
Candidate Starts for Akino08_37:
(97, 27287), (98, 27290), (110, 27308), (118, 27320), (119, 27323), (127, 27332), (Start: 176 @27407 has 12 MA's), (Start: 184 @27416 has 74 MA's), (199, 27458),

Gene: Akoni_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for Akoni_9:
(102, 6161), (Start: 175 @6089 has 54 MA's), (Start: 195 @6050 has 2 MA's), (215, 5978), (228, 5939), (246, 5897), (298, 5798),

Gene: Alatato_55 Start: 32020, Stop: 32337, Start Num: 138
Candidate Starts for Alatato_55:
(32, 31789), (Start: 138 @32020 has 50 MA's), (221, 32170), (255, 32233),

Gene: Alatin_45 Start: 34365, Stop: 34069, Start Num: 164
Candidate Starts for Alatin_45:
(Start: 164 @34365 has 41 MA's), (Start: 183 @34347 has 16 MA's), (188, 34341), (235, 34224), (259, 34191), (264, 34185), (294, 34125), (303, 34077),

Gene: Albedo_36 Start: 25530, Stop: 25772, Start Num: 184
Candidate Starts for Albedo_36:
(Start: 184 @25530 has 74 MA's), (289, 25764),

Gene: Albright_34 Start: 24694, Stop: 24924, Start Num: 184
Candidate Starts for Albright_34:
(Start: 184 @24694 has 74 MA's),

Gene: Alex44_9 Start: 6356, Stop: 6036, Start Num: 175

Candidate Starts for Alex44_9:
(95, 6476), (114, 6446), (Start: 175 @6356 has 54 MA's), (199, 6305), (204, 6290), (216, 6242), (279, 6101),

Gene: Aliter_58 Start: 38153, Stop: 37881, Start Num: 161
Candidate Starts for Aliter_58:
(Start: 161 @38153 has 101 MA's), (Start: 178 @38144 has 4 MA's), (Start: 202 @38087 has 2 MA's), (220, 38051), (233, 38012), (255, 37985), (262, 37973),

Gene: Alleb_29 Start: 9182, Stop: 9436, Start Num: 182
Candidate Starts for Alleb_29:
(144, 9134), (166, 9167), (Start: 182 @9182 has 43 MA's), (199, 9227), (218, 9263), (255, 9350),

Gene: Alma_58 Start: 38528, Stop: 38256, Start Num: 161
Candidate Starts for Alma_58:
(Start: 161 @38528 has 101 MA's), (Start: 178 @38519 has 4 MA's), (Start: 202 @38462 has 2 MA's), (220, 38426), (233, 38387), (255, 38360), (262, 38348),

Gene: AloeVera_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for AloeVera_9:
(102, 6161), (Start: 175 @6089 has 54 MA's), (215, 5978), (228, 5939), (298, 5798),

Gene: Alpacados_45 Start: 34270, Stop: 33974, Start Num: 164
Candidate Starts for Alpacados_45:
(Start: 164 @34270 has 41 MA's), (Start: 183 @34252 has 16 MA's), (188, 34246), (235, 34129), (259, 34096), (264, 34090), (294, 34030), (303, 33982),

Gene: Altostratus_60 Start: 35532, Stop: 35810, Start Num: 183
Candidate Starts for Altostratus_60:
(Start: 183 @35532 has 16 MA's), (199, 35577), (221, 35622), (256, 35697),

Gene: Amao_37 Start: 32339, Stop: 32584, Start Num: 180
Candidate Starts for Amao_37:
(Start: 180 @32339 has 162 MA's), (Start: 205 @32396 has 3 MA's), (221, 32429), (223, 32435), (251, 32483), (254, 32489), (262, 32501),

Gene: AmericanBeauty_39 Start: 33122, Stop: 33367, Start Num: 180
Candidate Starts for AmericanBeauty_39:
(Start: 180 @33122 has 162 MA's), (Start: 205 @33179 has 3 MA's), (221, 33212), (223, 33218), (254, 33272), (262, 33284),

Gene: Amploria_32 Start: 24442, Stop: 24684, Start Num: 167
Candidate Starts for Amploria_32:
(Start: 167 @24442 has 6 MA's),

Gene: Amyev_33 Start: 26378, Stop: 26620, Start Num: 164
Candidate Starts for Amyev_33:
(Start: 164 @26378 has 41 MA's),

Gene: Anaysia_64 Start: 37667, Stop: 37398, Start Num: 172
Candidate Starts for Anaysia_64:
(16, 38111), (19, 38087), (27, 38009), (Start: 172 @37667 has 33 MA's), (262, 37490), (281, 37451),

Gene: Aneem_58 Start: 37786, Stop: 37514, Start Num: 162
Candidate Starts for Aneem_58:
(Start: 162 @37786 has 35 MA's), (Start: 178 @37777 has 4 MA's), (262, 37606),

Gene: Anekin_75 Start: 40019, Stop: 40330, Start Num: 138
Candidate Starts for Anekin_75:
(Start: 138 @40019 has 50 MA's), (203, 40112), (Start: 205 @40115 has 3 MA's), (239, 40196), (259, 40235), (300, 40316),

Gene: AngryOrchard_44 Start: 34430, Stop: 34134, Start Num: 164
Candidate Starts for AngryOrchard_44:
(Start: 164 @34430 has 41 MA's), (Start: 183 @34412 has 16 MA's), (188, 34406), (235, 34289), (259, 34256), (264, 34250), (294, 34190), (303, 34142),

Gene: AnnaLie_37 Start: 25815, Stop: 26045, Start Num: 184
Candidate Starts for AnnaLie_37:
(Start: 184 @25815 has 74 MA's),

Gene: AnnabelLee_3 Start: 977, Stop: 1246, Start Num: 176
Candidate Starts for AnnabelLee_3:
(Start: 176 @977 has 12 MA's),

Gene: Anon_61 Start: 37216, Stop: 36947, Start Num: 173
Candidate Starts for Anon_61:
(Start: 173 @37216 has 9 MA's), (235, 37075), (274, 37018), (293, 36982),

Gene: Anselm_59 Start: 38676, Stop: 38404, Start Num: 161
Candidate Starts for Anselm_59:
(Start: 161 @38676 has 101 MA's), (Start: 178 @38667 has 4 MA's), (Start: 187 @38655 has 14 MA's), (Start: 189 @38649 has 10 MA's), (244, 38526), (262, 38496),

Gene: Anthony_54 Start: 36233, Stop: 35961, Start Num: 137
Candidate Starts for Anthony_54:
(Start: 137 @36233 has 12 MA's), (Start: 178 @36224 has 4 MA's), (Start: 189 @36206 has 10 MA's), (Start: 195 @36185 has 2 MA's), (262, 36053),

Gene: Aphelion_125 Start: 72038, Stop: 72331, Start Num: 170
Candidate Starts for Aphelion_125:
(Start: 170 @72038 has 12 MA's), (Start: 195 @72086 has 2 MA's), (255, 72215),

Gene: AppleCloud_43 Start: 34089, Stop: 33793, Start Num: 164
Candidate Starts for AppleCloud_43:
(Start: 164 @34089 has 41 MA's), (Start: 183 @34071 has 16 MA's), (188, 34065), (233, 33951), (235, 33948), (259, 33915), (264, 33909),

Gene: Appletree2_30 Start: 27633, Stop: 27902, Start Num: 179
Candidate Starts for Appletree2_30:
(Start: 179 @27633 has 71 MA's), (Start: 198 @27678 has 8 MA's), (257, 27786),

Gene: ArMaWen_9 Start: 6356, Stop: 6033, Start Num: 175
Candidate Starts for ArMaWen_9:
(114, 6446), (Start: 175 @6356 has 54 MA's), (199, 6305), (210, 6260), (216, 6242), (291, 6086),

Gene: Archie_32 Start: 28911, Stop: 29177, Start Num: 179
Candidate Starts for Archie_32:
(Start: 179 @28911 has 71 MA's), (Start: 198 @28956 has 8 MA's), (222, 29007), (228, 29025), (264, 29073), (299, 29145), (302, 29166),

Gene: Argent26_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for Argent26_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: Ariel_51 Start: 40408, Stop: 40647, Start Num: 189
Candidate Starts for Ariel_51:
(Start: 189 @40408 has 10 MA's), (Start: 196 @40435 has 1 MA's), (221, 40489), (222, 40492), (257, 40549), (277, 40585),

Gene: Arissanae_57 Start: 38844, Stop: 38572, Start Num: 161
Candidate Starts for Arissanae_57:
(Start: 161 @38844 has 101 MA's), (Start: 178 @38835 has 4 MA's), (201, 38781), (220, 38742), (244, 38694),

Gene: Armstrong_33 Start: 23408, Stop: 23647, Start Num: 176
Candidate Starts for Armstrong_33:
(52, 23165), (61, 23195), (Start: 176 @23408 has 12 MA's), (Start: 184 @23417 has 74 MA's), (221, 23504), (274, 23609), (289, 23639),

Gene: Arroyo_37 Start: 25853, Stop: 26083, Start Num: 184
Candidate Starts for Arroyo_37:
(Start: 184 @25853 has 74 MA's),

Gene: Artu_100 Start: 83547, Stop: 83807, Start Num: 182
Candidate Starts for Artu_100:
(Start: 182 @83547 has 43 MA's), (275, 83736), (289, 83766), (291, 83769),

Gene: Asa16_34 Start: 26607, Stop: 26864, Start Num: 167
Candidate Starts for Asa16_34:
(43, 26370), (45, 26379), (Start: 167 @26607 has 6 MA's), (199, 26655), (261, 26772),

Gene: Ascela_34 Start: 24798, Stop: 25064, Start Num: 163
Candidate Starts for Ascela_34:
(Start: 163 @24798 has 36 MA's), (259, 24981),

Gene: Ashes_31 Start: 22585, Stop: 22851, Start Num: 173
Candidate Starts for Ashes_31:
(Start: 173 @22585 has 9 MA's), (Start: 185 @22600 has 20 MA's), (208, 22663), (213, 22681), (272, 22783),

Gene: Ashton_9 Start: 6093, Stop: 5755, Start Num: 175
Candidate Starts for Ashton_9:
(102, 6165), (Start: 175 @6093 has 54 MA's), (Start: 195 @6054 has 2 MA's), (215, 5982), (228, 5943), (246, 5901), (298, 5802),

Gene: Asriel_36 Start: 31996, Stop: 32241, Start Num: 180
Candidate Starts for Asriel_36:

(Start: 180 @31996 has 162 MA's), (Start: 205 @32053 has 3 MA's), (221, 32086), (223, 32092), (254, 32146), (262, 32158),

Gene: Astartes_9 Start: 6131, Stop: 5775, Start Num: 175
Candidate Starts for Astartes_9:
(Start: 175 @6131 has 54 MA's), (Start: 195 @6092 has 2 MA's), (201, 6077), (228, 5981), (276, 5873), (280, 5864), (297, 5825),

Gene: Atraxi_9 Start: 6096, Stop: 5740, Start Num: 175
Candidate Starts for Atraxi_9:
(Start: 175 @6096 has 54 MA's), (Start: 195 @6057 has 2 MA's), (201, 6042), (280, 5829), (297, 5790),

Gene: Atuin_102 Start: 87057, Stop: 87320, Start Num: 182
Candidate Starts for Atuin_102:
(Start: 182 @87057 has 43 MA's), (275, 87246),

Gene: Audell_6 Start: 4387, Stop: 4647, Start Num: 179
Candidate Starts for Audell_6:
(Start: 179 @4387 has 71 MA's), (220, 4477), (251, 4534),

Gene: Auxilium_71 Start: 37005, Stop: 37301, Start Num: 138
Candidate Starts for Auxilium_71:
(Start: 138 @37005 has 50 MA's), (270, 37221), (285, 37254),

Gene: AvGardian_38 Start: 25976, Stop: 26215, Start Num: 184
Candidate Starts for AvGardian_38:
(127, 25892), (Start: 176 @25967 has 12 MA's), (Start: 184 @25976 has 74 MA's), (221, 26063),

Gene: AvadaKedavra_30 Start: 27700, Stop: 27969, Start Num: 179
Candidate Starts for AvadaKedavra_30:
(Start: 179 @27700 has 71 MA's), (Start: 198 @27745 has 8 MA's), (257, 27853),

Gene: Avocadoman_35 Start: 24931, Stop: 25161, Start Num: 184
Candidate Starts for Avocadoman_35:
(Start: 184 @24931 has 74 MA's),

Gene: Ayanochan_57 Start: 38311, Stop: 38039, Start Num: 161
Candidate Starts for Ayanochan_57:
(Start: 161 @38311 has 101 MA's), (Start: 178 @38302 has 4 MA's), (Start: 202 @38245 has 2 MA's), (220, 38209), (233, 38170), (255, 38143), (262, 38131),

Gene: AylexOG_38 Start: 25876, Stop: 26118, Start Num: 184
Candidate Starts for AylexOG_38:
(Start: 184 @25876 has 74 MA's), (289, 26110),

Gene: Azrael100_52 Start: 39360, Stop: 39608, Start Num: 182
Candidate Starts for Azrael100_52:
(Start: 182 @39360 has 43 MA's), (218, 39441), (235, 39489), (259, 39522), (262, 39525), (264, 39528), (278, 39561), (295, 39597),

Gene: BAKA_56 Start: 44234, Stop: 44479, Start Num: 180
Candidate Starts for BAKA_56:

(Start: 180 @44234 has 162 MA's), (207, 44297), (221, 44327), (222, 44330), (259, 44390), (262, 44393), (264, 44396),

Gene: BAjuniper_35 Start: 26652, Stop: 26891, Start Num: 185
Candidate Starts for BAjuniper_35:
(Start: 185 @26652 has 20 MA's), (199, 26694), (243, 26793), (252, 26799), (257, 26814), (274, 26844),

Gene: BFK20_ORF53 Start: 41569, Stop: 41835, Start Num: 173
Candidate Starts for BFK20_ORF53:
(152, 41539), (Start: 168 @41563 has 7 MA's), (Start: 173 @41569 has 9 MA's), (201, 41629), (221, 41671), (223, 41677), (258, 41737),

Gene: BaboJay_37 Start: 33214, Stop: 33462, Start Num: 177
Candidate Starts for BaboJay_37:
(135, 33145), (136, 33148), (149, 33175), (Start: 177 @33214 has 4 MA's), (Start: 205 @33274 has 3 MA's), (221, 33307), (223, 33313), (254, 33367), (262, 33379),

Gene: BabyDaisy_35 Start: 25454, Stop: 25684, Start Num: 184
Candidate Starts for BabyDaisy_35:
(97, 25325), (98, 25328), (108, 25343), (118, 25358), (119, 25361), (127, 25370), (Start: 176 @25445 has 12 MA's), (Start: 184 @25454 has 74 MA's), (243, 25595),

Gene: BabyYoda_37 Start: 26596, Stop: 26829, Start Num: 184
Candidate Starts for BabyYoda_37:
(127, 26512), (Start: 176 @26587 has 12 MA's), (Start: 184 @26596 has 74 MA's),

Gene: Bachaco_34 Start: 26614, Stop: 26844, Start Num: 184
Candidate Starts for Bachaco_34:
(98, 26485), (103, 26494), (108, 26500), (114, 26509), (121, 26521), (125, 26527), (133, 26539), (Start: 176 @26605 has 12 MA's), (Start: 184 @26614 has 74 MA's), (221, 26701), (243, 26755), (274, 26806), (289, 26836),

Gene: Bachita_128 Start: 71997, Stop: 72287, Start Num: 172
Candidate Starts for Bachita_128:
(105, 71889), (115, 71904), (140, 71949), (Start: 172 @71997 has 33 MA's), (Start: 195 @72042 has 2 MA's), (255, 72171),

Gene: Bachome_59 Start: 37766, Stop: 37494, Start Num: 162
Candidate Starts for Bachome_59:
(Start: 162 @37766 has 35 MA's), (Start: 178 @37757 has 4 MA's), (244, 37616),

Gene: BadStone_36 Start: 33127, Stop: 33372, Start Num: 180
Candidate Starts for BadStone_36:
(Start: 180 @33127 has 162 MA's), (Start: 205 @33184 has 3 MA's), (221, 33217), (223, 33223), (251, 33271), (254, 33277), (262, 33289),

Gene: Bagrid_51 Start: 43567, Stop: 43812, Start Num: 180
Candidate Starts for Bagrid_51:
(Start: 180 @43567 has 162 MA's), (207, 43630), (221, 43660), (222, 43663), (259, 43723), (262, 43726), (264, 43729),

Gene: BaileyBlu_34 Start: 24331, Stop: 24588, Start Num: 177

Candidate Starts for BaileyBlu_34:
(71, 24157), (76, 24166), (Start: 177 @24331 has 4 MA's), (243, 24487), (269, 24529), (271, 24535),

Gene: Balomoji_36 Start: 32861, Stop: 33106, Start Num: 180
Candidate Starts for Balomoji_36:
(Start: 180 @32861 has 162 MA's), (Start: 205 @32918 has 3 MA's), (221, 32951), (223, 32957), (251, 33005), (254, 33011), (262, 33023),

Gene: Banquo_62 Start: 38905, Stop: 39129, Start Num: 185
Candidate Starts for Banquo_62:
(Start: 185 @38905 has 20 MA's), (199, 38947), (221, 38992), (224, 39001), (255, 39052), (259, 39061), (277, 39082),

Gene: Bantam_85 Start: 57381, Stop: 57115, Start Num: 163
Candidate Starts for Bantam_85:
(Start: 163 @57381 has 36 MA's), (194, 57333),

Gene: Baoshan_31 Start: 28243, Stop: 28509, Start Num: 179
Candidate Starts for Baoshan_31:
(Start: 179 @28243 has 71 MA's), (Start: 198 @28288 has 8 MA's), (222, 28339), (299, 28477), (302, 28498),

Gene: Barbarian_36 Start: 31996, Stop: 32241, Start Num: 180
Candidate Starts for Barbarian_36:
(Start: 180 @31996 has 162 MA's), (Start: 205 @32053 has 3 MA's), (221, 32086), (223, 32092), (254, 32146), (262, 32158),

Gene: BarnCat_46 Start: 30635, Stop: 30874, Start Num: 185
Candidate Starts for BarnCat_46:
(104, 30518), (117, 30536), (Start: 185 @30635 has 20 MA's), (207, 30692), (220, 30719), (223, 30728),

Gene: Barnstormer_41 Start: 26907, Stop: 27167, Start Num: 165
Candidate Starts for Barnstormer_41:
(80, 26781), (Start: 165 @26907 has 11 MA's),

Gene: Barroma_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for Barroma_9:
(102, 6161), (Start: 175 @6089 has 54 MA's), (Start: 195 @6050 has 2 MA's), (215, 5978), (228, 5939), (298, 5798),

Gene: Bask21_37 Start: 32313, Stop: 32558, Start Num: 180
Candidate Starts for Bask21_37:
(Start: 180 @32313 has 162 MA's), (Start: 205 @32370 has 3 MA's), (221, 32403), (223, 32409), (254, 32463), (262, 32475),

Gene: BasketStar_74 Start: 39773, Stop: 40096, Start Num: 138
Candidate Starts for BasketStar_74:
(Start: 90 @39713 has 6 MA's), (Start: 138 @39773 has 50 MA's), (255, 39992),

Gene: Battleship_66 Start: 37873, Stop: 37604, Start Num: 172
Candidate Starts for Battleship_66:
(16, 38317), (27, 38215), (Start: 172 @37873 has 33 MA's), (262, 37696),

Gene: Baudelaire_33 Start: 27825, Stop: 28055, Start Num: 195
Candidate Starts for Baudelaire_33:
(Start: 179 @27789 has 71 MA's), (193, 27816), (Start: 195 @27825 has 2 MA's), (207, 27852), (221, 27882), (228, 27903), (257, 27942), (259, 27945), (262, 27948), (291, 28005), (295, 28014),

Gene: Bauer_68 Start: 38091, Stop: 38444, Start Num: 107
Candidate Starts for Bauer_68:
(81, 38049), (Start: 107 @38091 has 1 MA's), (Start: 138 @38127 has 50 MA's), (199, 38232), (221, 38277), (255, 38340),

Gene: Bazzle_32 Start: 28660, Stop: 28926, Start Num: 179
Candidate Starts for Bazzle_32:
(Start: 179 @28660 has 71 MA's), (Start: 198 @28705 has 8 MA's), (222, 28756), (228, 28774), (264, 28822), (299, 28894), (302, 28915),

Gene: Beaupre_31 Start: 22586, Stop: 22852, Start Num: 173
Candidate Starts for Beaupre_31:
(Start: 173 @22586 has 9 MA's), (Start: 185 @22601 has 20 MA's), (208, 22664), (213, 22682), (272, 22784),

Gene: Becksu_37 Start: 33318, Stop: 33563, Start Num: 180
Candidate Starts for Becksu_37:
(Start: 180 @33318 has 162 MA's), (Start: 205 @33375 has 3 MA's), (221, 33408), (223, 33414), (254, 33468), (262, 33480),

Gene: Beem_52 Start: 44133, Stop: 44378, Start Num: 180
Candidate Starts for Beem_52:
(Start: 180 @44133 has 162 MA's), (207, 44196), (221, 44226), (222, 44229), (259, 44289), (262, 44292), (264, 44295),

Gene: Beemo_58 Start: 38323, Stop: 38051, Start Num: 161
Candidate Starts for Beemo_58:
(Start: 161 @38323 has 101 MA's), (Start: 178 @38314 has 4 MA's), (Start: 202 @38257 has 2 MA's), (220, 38221), (233, 38182), (255, 38155), (262, 38143),

Gene: Belenaria_46 Start: 34231, Stop: 33935, Start Num: 164
Candidate Starts for Belenaria_46:
(Start: 164 @34231 has 41 MA's), (Start: 183 @34213 has 16 MA's), (188, 34207), (235, 34090), (259, 34057), (264, 34051), (294, 33991), (303, 33943),

Gene: BellaJr_66 Start: 38431, Stop: 38748, Start Num: 138
Candidate Starts for BellaJr_66:
(Start: 138 @38431 has 50 MA's), (221, 38581),

Gene: Bellis_31 Start: 28787, Stop: 29053, Start Num: 179
Candidate Starts for Bellis_31:
(Start: 179 @28787 has 71 MA's), (Start: 189 @28799 has 10 MA's), (Start: 198 @28832 has 8 MA's),

Gene: Bellris_58 Start: 37989, Stop: 37717, Start Num: 161
Candidate Starts for Bellris_58:
(Start: 161 @37989 has 101 MA's), (Start: 178 @37980 has 4 MA's), (Start: 202 @37923 has 2 MA's), (220, 37887), (244, 37839),

Gene: BelmontSKP_37 Start: 25815, Stop: 26045, Start Num: 184
Candidate Starts for BelmontSKP_37:
(Start: 184 @25815 has 74 MA's),

Gene: Bench_39 Start: 32995, Stop: 33240, Start Num: 180
Candidate Starts for Bench_39:
(Start: 180 @32995 has 162 MA's), (Start: 205 @33052 has 3 MA's), (221, 33085), (223, 33091), (254, 33145), (262, 33157),

Gene: BenchScraper_73 Start: 38140, Stop: 38463, Start Num: 138
Candidate Starts for BenchScraper_73:
(Start: 90 @38080 has 6 MA's), (Start: 138 @38140 has 50 MA's), (255, 38359),

Gene: Bengal_37 Start: 25443, Stop: 25673, Start Num: 184
Candidate Starts for Bengal_37:
(Start: 184 @25443 has 74 MA's),

Gene: Benvolio_55 Start: 37700, Stop: 37428, Start Num: 161
Candidate Starts for Benvolio_55:
(Start: 161 @37700 has 101 MA's), (Start: 178 @37691 has 4 MA's), (Start: 187 @37679 has 14 MA's), (Start: 189 @37673 has 10 MA's), (244, 37550),

Gene: Bernstein_33 Start: 23463, Stop: 23702, Start Num: 176
Candidate Starts for Bernstein_33:
(52, 23220), (61, 23250), (Start: 176 @23463 has 12 MA's), (Start: 184 @23472 has 74 MA's), (221, 23559), (274, 23664), (289, 23694),

Gene: Berrie_34 Start: 25682, Stop: 25942, Start Num: 163
Candidate Starts for Berrie_34:
(43, 25445), (49, 25454), (Start: 163 @25682 has 36 MA's),

Gene: Bhageatrice_77 Start: 41825, Stop: 42142, Start Num: 138
Candidate Starts for Bhageatrice_77:
(Start: 90 @41762 has 6 MA's), (Start: 138 @41825 has 50 MA's), (188, 41894), (221, 41975), (264, 42053),

Gene: Big4_346 Start: 183627, Stop: 183857, Start Num: 187
Candidate Starts for Big4_346:
(Start: 187 @183627 has 14 MA's), (210, 183699), (292, 183846),

Gene: Big4_20 Start: 8933, Stop: 9163, Start Num: 187
Candidate Starts for Big4_20:
(Start: 187 @8933 has 14 MA's), (210, 9005), (292, 9152),

Gene: Big4_204 Start: 114726, Stop: 114472, Start Num: 183
Candidate Starts for Big4_204:
(148, 114774), (Start: 183 @114726 has 16 MA's),

Gene: BigBubba_38 Start: 32898, Stop: 33143, Start Num: 180
Candidate Starts for BigBubba_38:
(Start: 180 @32898 has 162 MA's), (Start: 205 @32955 has 3 MA's), (221, 32988), (223, 32994), (251, 33042), (254, 33048), (262, 33060),

Gene: BigCheese_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for BigCheese_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: BilboSwaggins_37 Start: 33135, Stop: 33380, Start Num: 180
Candidate Starts for BilboSwaggins_37:
(Start: 180 @33135 has 162 MA's), (Start: 205 @33192 has 3 MA's), (221, 33225), (223, 33231), (254, 33285), (262, 33297),

Gene: BillyTP_74 Start: 39995, Stop: 40291, Start Num: 138
Candidate Starts for BillyTP_74:
(Start: 90 @39935 has 6 MA's), (Start: 138 @39995 has 50 MA's), (270, 40211), (285, 40244),

Gene: Biozilla_9 Start: 6310, Stop: 5987, Start Num: 175
Candidate Starts for Biozilla_9:
(72, 6478), (82, 6460), (98, 6427), (Start: 175 @6310 has 54 MA's), (199, 6259), (204, 6244), (216, 6196), (262, 6088), (291, 6040), (297, 6022),

Gene: Birdfeeder_9 Start: 6368, Stop: 6045, Start Num: 175
Candidate Starts for Birdfeeder_9:
(Start: 175 @6368 has 54 MA's), (199, 6317), (216, 6254), (291, 6098),

Gene: BlackJade_54 Start: 34939, Stop: 35229, Start Num: 168
Candidate Starts for BlackJade_54:
(Start: 168 @34939 has 7 MA's), (Start: 189 @34969 has 10 MA's), (Start: 195 @34990 has 2 MA's), (201, 35005), (215, 35053), (239, 35089), (248, 35107), (257, 35128), (294, 35203),

Gene: BlackSpider_60 Start: 36140, Stop: 36442, Start Num: 138
Candidate Starts for BlackSpider_60:
(14, 35759), (Start: 138 @36140 has 50 MA's), (199, 36230),

Gene: BlueShadow_72 Start: 39289, Stop: 39606, Start Num: 138
Candidate Starts for BlueShadow_72:
(Start: 138 @39289 has 50 MA's), (223, 39445), (233, 39475), (244, 39484), (255, 39502),

Gene: Bluvara_58 Start: 40303, Stop: 40536, Start Num: 188
Candidate Starts for Bluvara_58:
(Start: 182 @40291 has 43 MA's), (188, 40303), (190, 40309), (211, 40375), (233, 40420), (259, 40450),

Gene: BobSwaget_54 Start: 37176, Stop: 36904, Start Num: 161
Candidate Starts for BobSwaget_54:
(Start: 161 @37176 has 101 MA's), (Start: 189 @37149 has 10 MA's), (244, 37026), (262, 36996),

Gene: Bobby_51 Start: 42712, Stop: 42957, Start Num: 180
Candidate Starts for Bobby_51:
(Start: 180 @42712 has 162 MA's), (245, 42844),

Gene: BobbyDazzler_46 Start: 34344, Stop: 34048, Start Num: 164
Candidate Starts for BobbyDazzler_46:

(Start: 164 @34344 has 41 MA's), (Start: 183 @34326 has 16 MA's), (188, 34320), (235, 34203), (259, 34170), (264, 34164), (294, 34104), (303, 34056),

Gene: BobsGarage_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for BobsGarage_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Bogg_38 Start: 32564, Stop: 32812, Start Num: 177
Candidate Starts for Bogg_38:
(135, 32495), (136, 32498), (149, 32525), (Start: 177 @32564 has 4 MA's), (Start: 205 @32624 has 3 MA's), (221, 32657), (223, 32663), (254, 32717), (262, 32729),

Gene: BogosyJay_57 Start: 38245, Stop: 37973, Start Num: 161
Candidate Starts for BogosyJay_57:
(Start: 161 @38245 has 101 MA's), (Start: 178 @38236 has 4 MA's), (Start: 202 @38179 has 2 MA's), (220, 38143), (262, 38065),

Gene: Bombitas_49 Start: 43727, Stop: 43975, Start Num: 180
Candidate Starts for Bombitas_49:
(Start: 180 @43727 has 162 MA's), (245, 43859),

Gene: Bonanza_46 Start: 34272, Stop: 33976, Start Num: 164
Candidate Starts for Bonanza_46:
(Start: 164 @34272 has 41 MA's), (Start: 183 @34254 has 16 MA's), (188, 34248), (235, 34131), (259, 34098), (264, 34092), (294, 34032), (303, 33984),

Gene: BooTeria_98 Start: 83660, Stop: 83920, Start Num: 182
Candidate Starts for BooTeria_98:
(Start: 182 @83660 has 43 MA's), (275, 83849), (289, 83879), (291, 83882),

Gene: Boohoo_64 Start: 37667, Stop: 37398, Start Num: 172
Candidate Starts for Boohoo_64:
(16, 38111), (19, 38087), (27, 38009), (Start: 172 @37667 has 33 MA's), (262, 37490), (281, 37451),

Gene: BourbonZero_30 Start: 28780, Stop: 29001, Start Num: 198
Candidate Starts for BourbonZero_30:
(Start: 179 @28735 has 71 MA's), (Start: 189 @28747 has 10 MA's), (Start: 198 @28780 has 8 MA's), (221, 28828),

Gene: Bowtie_58 Start: 37793, Stop: 37521, Start Num: 162
Candidate Starts for Bowtie_58:
(Start: 162 @37793 has 35 MA's), (Start: 178 @37784 has 4 MA's), (262, 37613),

Gene: Bradman_57 Start: 37421, Stop: 37149, Start Num: 162
Candidate Starts for Bradman_57:
(Start: 162 @37421 has 35 MA's), (Start: 187 @37400 has 14 MA's), (Start: 189 @37394 has 10 MA's), (244, 37271), (251, 37259),

Gene: Bradshaw_46 Start: 34298, Stop: 34002, Start Num: 164
Candidate Starts for Bradshaw_46:
(Start: 164 @34298 has 41 MA's), (Start: 183 @34280 has 16 MA's), (188, 34274), (235, 34157), (259, 34124), (264, 34118), (294, 34058), (303, 34010),

Gene: Brahms_33 Start: 23410, Stop: 23649, Start Num: 176
Candidate Starts for Brahms_33:
(52, 23167), (61, 23197), (Start: 176 @23410 has 12 MA's), (Start: 184 @23419 has 74 MA's), (221, 23506), (274, 23611), (289, 23641),

Gene: BrainDrainer_31 Start: 27763, Stop: 27981, Start Num: 198
Candidate Starts for BrainDrainer_31:
(Start: 179 @27718 has 71 MA's), (Start: 198 @27763 has 8 MA's), (262, 27877),

Gene: BrayBeast_56 Start: 31864, Stop: 32181, Start Num: 138
Candidate Starts for BrayBeast_56:
(Start: 138 @31864 has 50 MA's), (255, 32077), (289, 32140),

Gene: Breezona_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for Breezona_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Brewer_37 Start: 33383, Stop: 33628, Start Num: 180
Candidate Starts for Brewer_37:
(Start: 180 @33383 has 162 MA's), (Start: 205 @33440 has 3 MA's), (221, 33473), (223, 33479), (251, 33527), (254, 33533), (262, 33545),

Gene: Bromden_32 Start: 28137, Stop: 28400, Start Num: 179
Candidate Starts for Bromden_32:
(Start: 179 @28137 has 71 MA's), (Start: 198 @28182 has 8 MA's), (257, 28290), (299, 28371),

Gene: BronnyJames_44 Start: 38020, Stop: 38232, Start Num: 196
Candidate Starts for BronnyJames_44:
(Start: 189 @37993 has 10 MA's), (Start: 196 @38020 has 1 MA's), (221, 38074), (222, 38077), (257, 38134), (277, 38170),

Gene: Bruin_37 Start: 33155, Stop: 33400, Start Num: 180
Candidate Starts for Bruin_37:
(Start: 180 @33155 has 162 MA's), (Start: 205 @33212 has 3 MA's), (221, 33245), (223, 33251), (254, 33305), (262, 33317),

Gene: BrutonGaster_100 Start: 65316, Stop: 65621, Start Num: 162
Candidate Starts for BrutonGaster_100:
(109, 65226), (Start: 162 @65316 has 35 MA's), (Start: 172 @65328 has 33 MA's), (253, 65496), (293, 65574),

Gene: Bryce_45 Start: 34052, Stop: 33756, Start Num: 164
Candidate Starts for Bryce_45:
(Start: 164 @34052 has 41 MA's), (Start: 183 @34034 has 16 MA's), (188, 34028), (235, 33911), (259, 33878), (264, 33872), (294, 33812), (303, 33764),

Gene: BubbaBear_35 Start: 25387, Stop: 25617, Start Num: 184
Candidate Starts for BubbaBear_35:
(Start: 184 @25387 has 74 MA's),

Gene: Buck_36 Start: 33091, Stop: 33336, Start Num: 180

Candidate Starts for Buck_36:
(Start: 180 @33091 has 162 MA's), (Start: 205 @33148 has 3 MA's), (221, 33181), (223, 33187), (254, 33241), (262, 33253),

Gene: Bud_57 Start: 37340, Stop: 37068, Start Num: 162
Candidate Starts for Bud_57:
(Start: 162 @37340 has 35 MA's), (Start: 178 @37331 has 4 MA's), (262, 37160),

Gene: Budgie_39 Start: 32682, Stop: 32927, Start Num: 180
Candidate Starts for Budgie_39:
(Start: 180 @32682 has 162 MA's), (Start: 205 @32739 has 3 MA's), (223, 32778), (254, 32832), (257, 32838), (267, 32853),

Gene: BugsBunny_35 Start: 32724, Stop: 32969, Start Num: 180
Candidate Starts for BugsBunny_35:
(Start: 180 @32724 has 162 MA's), (Start: 205 @32781 has 3 MA's), (221, 32814), (223, 32820), (254, 32874), (262, 32886),

Gene: Bugsy_60 Start: 38826, Stop: 38554, Start Num: 161
Candidate Starts for Bugsy_60:
(48, 39066), (60, 39027), (Start: 161 @38826 has 101 MA's), (Start: 178 @38817 has 4 MA's), (Start: 187 @38805 has 14 MA's), (Start: 189 @38799 has 10 MA's), (244, 38676),

Gene: Buldak_33 Start: 24218, Stop: 24493, Start Num: 153
Candidate Starts for Buldak_33:
(5, 23414), (9, 23633), (35, 23939), (Start: 153 @24218 has 1 MA's), (Start: 184 @24254 has 74 MA's), (221, 24341),

Gene: Burritobowl_36 Start: 25388, Stop: 25618, Start Num: 184
Candidate Starts for Burritobowl_36:
(Start: 184 @25388 has 74 MA's),

Gene: C3_56 Start: 38705, Stop: 38394, Start Num: 137
Candidate Starts for C3_56:
(Start: 137 @38705 has 12 MA's), (Start: 162 @38666 has 35 MA's), (Start: 178 @38657 has 4 MA's), (220, 38564), (244, 38516), (262, 38486),

Gene: Cactus_38 Start: 32346, Stop: 32591, Start Num: 180
Candidate Starts for Cactus_38:
(Start: 180 @32346 has 162 MA's), (Start: 205 @32403 has 3 MA's), (221, 32436), (223, 32442), (254, 32496), (262, 32508),

Gene: CallinAllBarbz_34 Start: 24734, Stop: 24985, Start Num: 178
Candidate Starts for CallinAllBarbz_34:
(Start: 178 @24734 has 4 MA's), (220, 24827), (271, 24932),

Gene: Calm_30 Start: 27704, Stop: 27973, Start Num: 179
Candidate Starts for Calm_30:
(Start: 179 @27704 has 71 MA's), (Start: 198 @27749 has 8 MA's), (257, 27857),

Gene: CanFranMach_37 Start: 25473, Stop: 25703, Start Num: 184
Candidate Starts for CanFranMach_37:

(97, 25344), (98, 25347), (110, 25365), (118, 25377), (119, 25380), (127, 25389), (129, 25392), (Start: 176 @25464 has 12 MA's), (Start: 184 @25473 has 74 MA's), (210, 25545),

Gene: Candle_40 Start: 36392, Stop: 36637, Start Num: 174
Candidate Starts for Candle_40:
(145, 36350), (Start: 174 @36392 has 10 MA's), (Start: 189 @36413 has 10 MA's), (Start: 195 @36434 has 2 MA's), (207, 36461), (260, 36560), (263, 36563), (265, 36566), (294, 36617),

Gene: Cappuccino_31 Start: 22494, Stop: 22760, Start Num: 173
Candidate Starts for Cappuccino_31:
(Start: 173 @22494 has 9 MA's), (Start: 181 @22503 has 12 MA's), (Start: 185 @22509 has 20 MA's), (208, 22572),

Gene: Caraxes_58 Start: 36944, Stop: 36672, Start Num: 137
Candidate Starts for Caraxes_58:
(Start: 137 @36944 has 12 MA's), (Start: 189 @36917 has 10 MA's), (244, 36794), (251, 36782),

Gene: CardboardBox_3 Start: 977, Stop: 1246, Start Num: 176
Candidate Starts for CardboardBox_3:
(Start: 176 @977 has 12 MA's),

Gene: Cardigan_131 Start: 76224, Stop: 76523, Start Num: 170
Candidate Starts for Cardigan_131:
(Start: 170 @76224 has 12 MA's), (199, 76284), (214, 76326), (221, 76335), (233, 76371), (255, 76401), (275, 76431),

Gene: Caron_44 Start: 27999, Stop: 28262, Start Num: 165
Candidate Starts for Caron_44:
(83, 27885), (85, 27888), (Start: 165 @27999 has 11 MA's), (199, 28053),

Gene: Casablancas_36 Start: 10074, Stop: 10328, Start Num: 182
Candidate Starts for Casablancas_36:
(Start: 162 @10059 has 35 MA's), (Start: 182 @10074 has 43 MA's), (199, 10119), (223, 10170), (231, 10188), (238, 10206), (243, 10218), (255, 10242),

Gene: Cashington_34 Start: 24734, Stop: 24964, Start Num: 184
Candidate Starts for Cashington_34:
(Start: 184 @24734 has 74 MA's), (243, 24875),

Gene: Cassia_34 Start: 25274, Stop: 25540, Start Num: 163
Candidate Starts for Cassia_34:
(Start: 163 @25274 has 36 MA's), (259, 25457),

Gene: Cassini_70 Start: 38385, Stop: 38699, Start Num: 138
Candidate Starts for Cassini_70:
(Start: 138 @38385 has 50 MA's), (Start: 205 @38484 has 3 MA's), (257, 38601),

Gene: Cassita_54 Start: 33514, Stop: 33735, Start Num: 185
Candidate Starts for Cassita_54:
(70, 33349), (88, 33376), (Start: 90 @33379 has 6 MA's), (Start: 185 @33514 has 20 MA's), (223, 33607),

Gene: Catalina_59 Start: 38226, Stop: 37954, Start Num: 161

Candidate Starts for Catalina_59:
(Start: 161 @38226 has 101 MA's), (Start: 178 @38217 has 4 MA's), (Start: 202 @38160 has 2 MA's), (220, 38124), (233, 38085), (255, 38058), (262, 38046),

Gene: Catfish_63 Start: 40933, Stop: 41151, Start Num: 185
Candidate Starts for Catfish_63:
(Start: 185 @40933 has 20 MA's), (Start: 196 @40966 has 1 MA's), (241, 41056),

Gene: Cece_195 Start: 119232, Stop: 118984, Start Num: 183
Candidate Starts for Cece_195:
(146, 119280), (155, 119265), (Start: 183 @119232 has 16 MA's), (238, 119118), (252, 119097), (274, 119052),

Gene: Celaena_34 Start: 26364, Stop: 26594, Start Num: 184
Candidate Starts for Celaena_34:
(98, 26235), (103, 26244), (108, 26250), (114, 26259), (121, 26271), (125, 26277), (133, 26289), (Start: 176 @26355 has 12 MA's), (Start: 184 @26364 has 74 MA's), (221, 26451), (243, 26505), (274, 26556),

Gene: Celestialunch_56 Start: 38031, Stop: 37759, Start Num: 161
Candidate Starts for Celestialunch_56:
(Start: 161 @38031 has 101 MA's), (Start: 178 @38022 has 4 MA's), (220, 37929), (244, 37881), (255, 37863), (262, 37851), (285, 37806),

Gene: Cen1621_38 Start: 25188, Stop: 25475, Start Num: 143
Candidate Starts for Cen1621_38:
(Start: 143 @25188 has 1 MA's), (Start: 178 @25215 has 4 MA's), (244, 25371), (256, 25395),

Gene: ChamoyPickle_3 Start: 977, Stop: 1246, Start Num: 176
Candidate Starts for ChamoyPickle_3:
(Start: 176 @977 has 12 MA's),

Gene: Charm_56 Start: 38090, Stop: 37818, Start Num: 161
Candidate Starts for Charm_56:
(Start: 161 @38090 has 101 MA's), (Start: 202 @38024 has 2 MA's), (220, 37988), (255, 37922), (262, 37910), (267, 37901),

Gene: Chaser_30 Start: 27536, Stop: 27799, Start Num: 179
Candidate Starts for Chaser_30:
(Start: 179 @27536 has 71 MA's), (Start: 198 @27581 has 8 MA's), (262, 27695),

Gene: Che12_59 Start: 37385, Stop: 37113, Start Num: 137
Candidate Starts for Che12_59:
(Start: 137 @37385 has 12 MA's), (Start: 189 @37358 has 10 MA's), (201, 37322), (223, 37274), (244, 37235), (251, 37223), (262, 37205),

Gene: ChengKai98_32 Start: 28469, Stop: 28690, Start Num: 198
Candidate Starts for ChengKai98_32:
(Start: 179 @28424 has 71 MA's), (Start: 198 @28469 has 8 MA's), (222, 28520), (264, 28586), (299, 28658), (302, 28679),

Gene: CherryTomatoes_78 Start: 28836, Stop: 29102, Start Num: 175
Candidate Starts for CherryTomatoes_78:

(Start: 175 @28836 has 54 MA's), (Start: 198 @28884 has 8 MA's), (257, 29004), (291, 29064),

Gene: ChiliPepper_33 Start: 25809, Stop: 26048, Start Num: 176
Candidate Starts for ChiliPepper_33:
(21, 25398), (28, 25461), (31, 25479), (34, 25500), (38, 25509), (42, 25533), (47, 25551), (50, 25557), (58, 25584), (59, 25587), (63, 25608), (65, 25611), (72, 25638), (79, 25650), (86, 25665), (93, 25680), (98, 25689), (103, 25698), (108, 25704), (114, 25713), (121, 25725), (125, 25731), (Start: 176 @25809 has 12 MA's), (Start: 184 @25818 has 74 MA's), (210, 25890), (221, 25905), (243, 25959), (274, 26010), (289, 26040),

Gene: ChipMunk_60 Start: 40026, Stop: 39754, Start Num: 161
Candidate Starts for ChipMunk_60:
(Start: 161 @40026 has 101 MA's), (Start: 178 @40017 has 4 MA's), (Start: 187 @40005 has 14 MA's), (Start: 189 @39999 has 10 MA's), (244, 39876),

Gene: ChipsNGuac_3 Start: 977, Stop: 1246, Start Num: 176
Candidate Starts for ChipsNGuac_3:
(Start: 176 @977 has 12 MA's),

Gene: ChosenOne_37 Start: 32343, Stop: 32588, Start Num: 180
Candidate Starts for ChosenOne_37:
(Start: 180 @32343 has 162 MA's), (Start: 205 @32400 has 3 MA's), (221, 32433), (223, 32439), (254, 32493), (262, 32505),

Gene: ChotaBhai_37 Start: 32381, Stop: 32626, Start Num: 180
Candidate Starts for ChotaBhai_37:
(Start: 180 @32381 has 162 MA's), (Start: 205 @32438 has 3 MA's), (221, 32471), (223, 32477), (251, 32525), (254, 32531), (262, 32543),

Gene: ChutneyChips_31 Start: 27716, Stop: 27979, Start Num: 179
Candidate Starts for ChutneyChips_31:
(Start: 179 @27716 has 71 MA's), (Start: 198 @27761 has 8 MA's), (262, 27875),

Gene: CicholasNage_30 Start: 27692, Stop: 27961, Start Num: 179
Candidate Starts for CicholasNage_30:
(Start: 179 @27692 has 71 MA's), (Start: 198 @27737 has 8 MA's), (257, 27845),

Gene: Cjw1_37 Start: 33895, Stop: 34140, Start Num: 180
Candidate Starts for Cjw1_37:
(Start: 180 @33895 has 162 MA's), (Start: 205 @33952 has 3 MA's), (221, 33985), (223, 33991), (254, 34045), (262, 34057),

Gene: Claus_32 Start: 28444, Stop: 28665, Start Num: 198
Candidate Starts for Claus_32:
(Start: 179 @28399 has 71 MA's), (Start: 198 @28444 has 8 MA's), (222, 28495), (228, 28513), (299, 28633), (302, 28654),

Gene: Clautastrophe_31 Start: 28784, Stop: 29050, Start Num: 179
Candidate Starts for Clautastrophe_31:
(Start: 179 @28784 has 71 MA's), (Start: 189 @28796 has 10 MA's), (Start: 198 @28829 has 8 MA's),

Gene: Clayda5_34 Start: 23406, Stop: 23636, Start Num: 184
Candidate Starts for Clayda5_34:

(52, 23154), (61, 23184), (Start: 176 @23397 has 12 MA's), (Start: 184 @23406 has 74 MA's), (221, 23493), (274, 23598), (289, 23628),

Gene: CliffHanger_37 Start: 24318, Stop: 24548, Start Num: 184
Candidate Starts for CliffHanger_37:
(Start: 184 @24318 has 74 MA's), (201, 24363), (237, 24441),

Gene: ClubL_125 Start: 70565, Stop: 70858, Start Num: 170
Candidate Starts for ClubL_125:
(Start: 170 @70565 has 12 MA's), (Start: 195 @70613 has 2 MA's), (255, 70742),

Gene: CogOmlette_57 Start: 37986, Stop: 37714, Start Num: 161
Candidate Starts for CogOmlette_57:
(Start: 161 @37986 has 101 MA's), (Start: 178 @37977 has 4 MA's), (Start: 202 @37920 has 2 MA's), (220, 37884), (244, 37836),

Gene: Coltrane_33 Start: 23410, Stop: 23649, Start Num: 176
Candidate Starts for Coltrane_33:
(52, 23167), (61, 23197), (Start: 176 @23410 has 12 MA's), (Start: 184 @23419 has 74 MA's), (221, 23506), (274, 23611), (289, 23641),

Gene: Command613_38 Start: 33402, Stop: 33647, Start Num: 180
Candidate Starts for Command613_38:
(Start: 180 @33402 has 162 MA's), (Start: 205 @33459 has 3 MA's), (221, 33492), (223, 33498), (254, 33552), (262, 33564),

Gene: Community_34 Start: 26806, Stop: 27072, Start Num: 163
Candidate Starts for Community_34:
(43, 26569), (49, 26578), (Start: 163 @26806 has 36 MA's),

Gene: Conditioner_9 Start: 6356, Stop: 6033, Start Num: 175
Candidate Starts for Conditioner_9:
(131, 6422), (Start: 175 @6356 has 54 MA's), (199, 6305), (210, 6260), (216, 6242), (291, 6086),

Gene: Conquerage_58 Start: 38297, Stop: 38025, Start Num: 161
Candidate Starts for Conquerage_58:
(Start: 161 @38297 has 101 MA's), (Start: 178 @38288 has 4 MA's), (Start: 202 @38231 has 2 MA's), (220, 38195), (233, 38156), (255, 38129), (262, 38117),

Gene: Constella_44 Start: 40270, Stop: 40518, Start Num: 180
Candidate Starts for Constella_44:
(Start: 180 @40270 has 162 MA's), (Start: 196 @40309 has 1 MA's), (221, 40363), (222, 40366), (257, 40423), (277, 40459), (299, 40507),

Gene: Contagion_36 Start: 32639, Stop: 32884, Start Num: 180
Candidate Starts for Contagion_36:
(Start: 180 @32639 has 162 MA's), (Start: 205 @32696 has 3 MA's), (221, 32729), (223, 32735), (251, 32783), (254, 32789), (262, 32801),

Gene: CookieBear_72 Start: 38614, Stop: 38937, Start Num: 138
Candidate Starts for CookieBear_72:
(Start: 90 @38554 has 6 MA's), (Start: 138 @38614 has 50 MA's), (255, 38833),

Gene: Cookies_37 Start: 33004, Stop: 33249, Start Num: 180
Candidate Starts for Cookies_37:
(Start: 180 @33004 has 162 MA's), (Start: 205 @33061 has 3 MA's), (221, 33094), (223, 33100), (251, 33148), (254, 33154), (262, 33166),

Gene: Corn21_9 Start: 6384, Stop: 6061, Start Num: 175
Candidate Starts for Corn21_9:
(131, 6450), (Start: 175 @6384 has 54 MA's), (199, 6333), (210, 6288), (216, 6270), (261, 6165), (291, 6114),

Gene: CosmicBrownie_68 Start: 37819, Stop: 38136, Start Num: 138
Candidate Starts for CosmicBrownie_68:
(Start: 138 @37819 has 50 MA's), (228, 37993), (285, 38089),

Gene: CosmicSans_46 Start: 34298, Stop: 34002, Start Num: 164
Candidate Starts for CosmicSans_46:
(Start: 164 @34298 has 41 MA's), (Start: 183 @34280 has 16 MA's), (188, 34274), (235, 34157), (259, 34124), (264, 34118), (294, 34058), (303, 34010),

Gene: Cosmo_53 Start: 39361, Stop: 39609, Start Num: 182
Candidate Starts for Cosmo_53:
(Start: 182 @39361 has 43 MA's), (218, 39442), (235, 39490), (259, 39523), (262, 39526), (264, 39529), (278, 39562), (295, 39598),

Gene: Count_87 Start: 57913, Stop: 58173, Start Num: 175
Candidate Starts for Count_87:
(Start: 175 @57913 has 54 MA's),

Gene: Courthouse_51 Start: 40812, Stop: 41051, Start Num: 189
Candidate Starts for Courthouse_51:
(Start: 189 @40812 has 10 MA's), (Start: 196 @40839 has 1 MA's), (221, 40893), (222, 40896), (257, 40953), (277, 40989),

Gene: Crescenzo_76 Start: 41349, Stop: 41732, Start Num: 90
Candidate Starts for Crescenzo_76:
(Start: 90 @41349 has 6 MA's), (Start: 138 @41409 has 50 MA's), (255, 41628),

Gene: Crewmate_37 Start: 25536, Stop: 25778, Start Num: 164
Candidate Starts for Crewmate_37:
(43, 25278), (55, 25314), (Start: 164 @25536 has 41 MA's),

Gene: CroZenni_36 Start: 25278, Stop: 25508, Start Num: 184
Candidate Starts for CroZenni_36:
(97, 25149), (98, 25152), (110, 25170), (118, 25182), (119, 25185), (127, 25194), (129, 25197), (Start: 176 @25269 has 12 MA's), (Start: 184 @25278 has 74 MA's),

Gene: Crossroads_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for Crossroads_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Crucio_58 Start: 38443, Stop: 38171, Start Num: 161
Candidate Starts for Crucio_58:

(Start: 161 @38443 has 101 MA's), (Start: 178 @38434 has 4 MA's), (Start: 187 @38422 has 14 MA's), (Start: 189 @38416 has 10 MA's), (244, 38293),

Gene: CrunchyBoi_10 Start: 6445, Stop: 6122, Start Num: 175
Candidate Starts for CrunchyBoi_10:
(72, 6613), (98, 6562), (Start: 175 @6445 has 54 MA's), (199, 6394), (204, 6379), (216, 6331), (262, 6223), (291, 6175), (297, 6157),

Gene: CrystalP_37 Start: 33135, Stop: 33380, Start Num: 180
Candidate Starts for CrystalP_37:
(Start: 180 @33135 has 162 MA's), (Start: 205 @33192 has 3 MA's), (221, 33225), (223, 33231), (254, 33285), (262, 33297),

Gene: Cucurbita_126 Start: 72310, Stop: 72600, Start Num: 172
Candidate Starts for Cucurbita_126:
(105, 72202), (115, 72217), (140, 72262), (Start: 172 @72310 has 33 MA's), (Start: 195 @72355 has 2 MA's), (255, 72484),

Gene: Culver_125 Start: 70325, Stop: 70618, Start Num: 170
Candidate Starts for Culver_125:
(Start: 170 @70325 has 12 MA's), (Start: 195 @70373 has 2 MA's), (255, 70502),

Gene: CupcakePrincess_37 Start: 25564, Stop: 25806, Start Num: 184
Candidate Starts for CupcakePrincess_37:
(Start: 184 @25564 has 74 MA's), (289, 25798),

Gene: Cyan_33 Start: 24752, Stop: 24994, Start Num: 163
Candidate Starts for Cyan_33:
(43, 24494), (Start: 163 @24752 has 36 MA's), (259, 24911),

Gene: Czyszczon1_38 Start: 32880, Stop: 33125, Start Num: 180
Candidate Starts for Czyszczon1_38:
(Start: 180 @32880 has 162 MA's), (Start: 205 @32937 has 3 MA's), (221, 32970), (223, 32976), (254, 33030), (262, 33042),

Gene: D29_56 Start: 38269, Stop: 37997, Start Num: 161
Candidate Starts for D29_56:
(Start: 161 @38269 has 101 MA's), (Start: 178 @38260 has 4 MA's), (220, 38167), (262, 38089), (291, 38035),

Gene: D32_59 Start: 38269, Stop: 37997, Start Num: 161
Candidate Starts for D32_59:
(Start: 161 @38269 has 101 MA's), (Start: 178 @38260 has 4 MA's), (220, 38167), (262, 38089), (291, 38035),

Gene: DBQu4n_60 Start: 38250, Stop: 37978, Start Num: 161
Candidate Starts for DBQu4n_60:
(Start: 161 @38250 has 101 MA's), (Start: 178 @38241 has 4 MA's), (220, 38148), (262, 38070), (291, 38016),

Gene: DHan_32 Start: 28380, Stop: 28601, Start Num: 198
Candidate Starts for DHan_32:

(Start: 179 @28335 has 71 MA's), (Start: 198 @28380 has 8 MA's), (222, 28431), (228, 28449), (299, 28569), (302, 28590),

Gene: DS6A_74 Start: 48826, Stop: 49065, Start Num: 185
Candidate Starts for DS6A_74:
(69, 48631), (Start: 185 @48826 has 20 MA's), (Start: 198 @48868 has 8 MA's), (210, 48901), (259, 48985),

Gene: Daddyjeff_52 Start: 34278, Stop: 34511, Start Num: 181
Candidate Starts for Daddyjeff_52:
(Start: 181 @34278 has 12 MA's), (241, 34413),

Gene: Daikon_36 Start: 32873, Stop: 33118, Start Num: 180
Candidate Starts for Daikon_36:
(Start: 180 @32873 has 162 MA's), (Start: 205 @32930 has 3 MA's), (221, 32963), (223, 32969), (251, 33017), (254, 33023), (262, 33035),

Gene: Dallas_54 Start: 43667, Stop: 43912, Start Num: 180
Candidate Starts for Dallas_54:
(Start: 180 @43667 has 162 MA's), (207, 43730), (221, 43760), (222, 43763), (259, 43823), (262, 43826), (264, 43829),

Gene: Dalmatian_59 Start: 38649, Stop: 38377, Start Num: 161
Candidate Starts for Dalmatian_59:
(Start: 161 @38649 has 101 MA's), (Start: 178 @38640 has 4 MA's), (Start: 187 @38628 has 14 MA's), (Start: 189 @38622 has 10 MA's), (244, 38499), (262, 38469),

Gene: DanBing_31 Start: 28284, Stop: 28505, Start Num: 198
Candidate Starts for DanBing_31:
(Start: 179 @28239 has 71 MA's), (Start: 198 @28284 has 8 MA's), (222, 28335), (299, 28473), (302, 28494),

Gene: Dardanus_57 Start: 37159, Stop: 37398, Start Num: 185
Candidate Starts for Dardanus_57:
(106, 37051), (Start: 185 @37159 has 20 MA's), (199, 37201), (223, 37252), (224, 37255), (255, 37306), (259, 37315), (277, 37336),

Gene: Daredevil_75 Start: 52964, Stop: 52707, Start Num: 163
Candidate Starts for Daredevil_75:
(134, 53015), (139, 53000), (145, 52991), (147, 52988), (Start: 163 @52964 has 36 MA's), (256, 52793),

Gene: Darrell_60 Start: 38922, Stop: 38650, Start Num: 161
Candidate Starts for Darrell_60:
(Start: 161 @38922 has 101 MA's), (Start: 178 @38913 has 4 MA's), (Start: 202 @38856 has 2 MA's), (220, 38820), (244, 38772), (270, 38730),

Gene: DarthPhader_54 Start: 39183, Stop: 38911, Start Num: 162
Candidate Starts for DarthPhader_54:
(Start: 162 @39183 has 35 MA's), (Start: 178 @39174 has 4 MA's), (220, 39081), (244, 39033), (257, 39009), (262, 39003),

Gene: DarwinJr_78 Start: 41364, Stop: 41687, Start Num: 138

Candidate Starts for DarwinJr_78:
(Start: 90 @41304 has 6 MA's), (Start: 138 @41364 has 50 MA's), (255, 41583),

Gene: Dashyla_9 Start: 6362, Stop: 6042, Start Num: 175
Candidate Starts for Dashyla_9:
(114, 6452), (Start: 175 @6362 has 54 MA's), (199, 6311), (204, 6296), (216, 6248), (279, 6107),

Gene: DatBoi_82 Start: 57093, Stop: 56827, Start Num: 163
Candidate Starts for DatBoi_82:
(144, 57123), (146, 57120), (Start: 163 @57093 has 36 MA's),

Gene: DejaVu_31 Start: 9377, Stop: 9625, Start Num: 182
Candidate Starts for DejaVu_31:
(Start: 150 @9338 has 1 MA's), (Start: 182 @9377 has 43 MA's), (199, 9422), (218, 9458), (283, 9605),

Gene: DekHockey33_65 Start: 37959, Stop: 37690, Start Num: 172
Candidate Starts for DekHockey33_65:
(16, 38403), (27, 38301), (Start: 172 @37959 has 33 MA's), (262, 37782),

Gene: Deschain_35 Start: 10738, Stop: 10992, Start Num: 182
Candidate Starts for Deschain_35:
(Start: 162 @10723 has 35 MA's), (Start: 182 @10738 has 43 MA's), (199, 10783), (223, 10834), (231, 10852), (238, 10870), (243, 10882), (255, 10906),

Gene: DickRichards_35 Start: 25717, Stop: 25947, Start Num: 184
Candidate Starts for DickRichards_35:
(Start: 184 @25717 has 74 MA's),

Gene: Didgeridoo_38 Start: 25851, Stop: 26093, Start Num: 184
Candidate Starts for Didgeridoo_38:
(Start: 184 @25851 has 74 MA's), (243, 25992),

Gene: Dignity_60 Start: 38849, Stop: 38577, Start Num: 161
Candidate Starts for Dignity_60:
(Start: 161 @38849 has 101 MA's), (Start: 178 @38840 has 4 MA's), (Start: 187 @38828 has 14 MA's), (Start: 189 @38822 has 10 MA's), (244, 38699),

Gene: Ding_66 Start: 38655, Stop: 38966, Start Num: 138
Candidate Starts for Ding_66:
(Start: 90 @38598 has 6 MA's), (Start: 138 @38655 has 50 MA's), (Start: 195 @38727 has 2 MA's), (203, 38748), (Start: 205 @38751 has 3 MA's), (251, 38856), (276, 38898),

Gene: Dinger_45 Start: 34431, Stop: 34135, Start Num: 164
Candidate Starts for Dinger_45:
(Start: 164 @34431 has 41 MA's), (Start: 183 @34413 has 16 MA's), (188, 34407), (235, 34290), (259, 34257), (264, 34251), (294, 34191), (303, 34143),

Gene: DinoDaryn_63 Start: 39006, Stop: 39230, Start Num: 185
Candidate Starts for DinoDaryn_63:
(Start: 185 @39006 has 20 MA's), (199, 39048), (221, 39093), (224, 39102), (255, 39153), (259, 39162), (277, 39183),

Gene: DirkDirk_30 Start: 27718, Stop: 27942, Start Num: 198

Candidate Starts for DirkDirk_30:
(Start: 179 @27673 has 71 MA's), (Start: 198 @27718 has 8 MA's), (257, 27826),

Gene: DirtyBubble_36 Start: 26244, Stop: 26477, Start Num: 184
Candidate Starts for DirtyBubble_36:
(97, 26115), (98, 26118), (110, 26136), (118, 26148), (119, 26151), (127, 26160), (Start: 176 @26235 has 12 MA's), (Start: 184 @26244 has 74 MA's), (253, 26394),

Gene: Dismas_34 Start: 25989, Stop: 26219, Start Num: 184
Candidate Starts for Dismas_34:
(21, 25569), (28, 25632), (31, 25650), (34, 25671), (38, 25680), (42, 25704), (47, 25722), (50, 25728), (58, 25755), (59, 25758), (63, 25779), (72, 25809), (79, 25821), (86, 25836), (93, 25851), (98, 25860), (103, 25869), (108, 25875), (114, 25884), (121, 25896), (125, 25902), (Start: 176 @25980 has 12 MA's), (Start: 184 @25989 has 74 MA's), (210, 26061), (221, 26076), (243, 26130), (274, 26181), (289, 26211),

Gene: Divya_48 Start: 34038, Stop: 34328, Start Num: 168
Candidate Starts for Divya_48:
(Start: 168 @34038 has 7 MA's), (Start: 195 @34089 has 2 MA's), (201, 34104), (251, 34212), (257, 34227), (294, 34302),

Gene: DmpstrDiver_53 Start: 43660, Stop: 43905, Start Num: 180
Candidate Starts for DmpstrDiver_53:
(Start: 180 @43660 has 162 MA's), (207, 43723), (221, 43753), (222, 43756), (259, 43816), (262, 43819), (264, 43822),

Gene: DoctorDiddles_37 Start: 32297, Stop: 32542, Start Num: 180
Candidate Starts for DoctorDiddles_37:
(Start: 180 @32297 has 162 MA's), (Start: 205 @32354 has 3 MA's), (221, 32387), (223, 32393), (251, 32441), (254, 32447), (262, 32459),

Gene: Dodo_214 Start: 118119, Stop: 117865, Start Num: 183
Candidate Starts for Dodo_214:
(Start: 183 @118119 has 16 MA's), (236, 118005), (252, 117978), (274, 117933),

Gene: Dodo_367 Start: 185243, Stop: 185473, Start Num: 187
Candidate Starts for Dodo_367:
(Start: 187 @185243 has 14 MA's), (210, 185315), (230, 185357), (282, 185444), (292, 185462),

Gene: Dodo_21 Start: 7043, Stop: 7273, Start Num: 187
Candidate Starts for Dodo_21:
(Start: 187 @7043 has 14 MA's), (210, 7115), (230, 7157), (282, 7244), (292, 7262),

Gene: Doobus_35 Start: 25098, Stop: 25328, Start Num: 184
Candidate Starts for Doobus_35:
(Start: 184 @25098 has 74 MA's),

Gene: Douge_30 Start: 27474, Stop: 27737, Start Num: 179
Candidate Starts for Douge_30:
(Start: 179 @27474 has 71 MA's), (Start: 198 @27519 has 8 MA's), (221, 27567), (262, 27633),

Gene: Douzhi_30 Start: 27624, Stop: 27842, Start Num: 198
Candidate Starts for Douzhi_30:

(Start: 179 @27579 has 71 MA's), (Start: 198 @27624 has 8 MA's), (262, 27738),

Gene: Dove_49 Start: 43194, Stop: 43442, Start Num: 180
Candidate Starts for Dove_49:
(Start: 180 @43194 has 162 MA's), (Start: 196 @43233 has 1 MA's), (221, 43287), (222, 43290), (257, 43347), (277, 43383), (299, 43431),

Gene: DrDrey_38 Start: 33627, Stop: 33872, Start Num: 180
Candidate Starts for DrDrey_38:
(Start: 180 @33627 has 162 MA's), (Start: 205 @33684 has 3 MA's), (221, 33717), (223, 33723), (254, 33777), (262, 33789),

Gene: DrManhattan_32 Start: 23095, Stop: 23340, Start Num: 167
Candidate Starts for DrManhattan_32:
(24, 22726), (43, 22840), (55, 22876), (Start: 167 @23095 has 6 MA's),

Gene: DrSeegs_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for DrSeegs_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: DrSierra_32 Start: 23583, Stop: 23849, Start Num: 163
Candidate Starts for DrSierra_32:
(43, 23325), (55, 23361), (112, 23499), (Start: 163 @23583 has 36 MA's), (259, 23766),

Gene: DreamEater_53 Start: 35811, Stop: 36119, Start Num: 138
Candidate Starts for DreamEater_53:
(Start: 138 @35811 has 50 MA's), (Start: 187 @35862 has 14 MA's), (223, 35952), (233, 35982), (262, 36021),

Gene: DreamTeam1_56 Start: 37922, Stop: 37650, Start Num: 161
Candidate Starts for DreamTeam1_56:
(Start: 161 @37922 has 101 MA's), (Start: 202 @37856 has 2 MA's), (220, 37820), (255, 37754), (262, 37742), (267, 37733),

Gene: DudeLittle_57 Start: 38415, Stop: 38143, Start Num: 161
Candidate Starts for DudeLittle_57:
(Start: 161 @38415 has 101 MA's), (Start: 178 @38406 has 4 MA's), (Start: 187 @38394 has 14 MA's), (Start: 189 @38388 has 10 MA's), (244, 38265), (262, 38235),

Gene: Duke13_55 Start: 43999, Stop: 44247, Start Num: 180
Candidate Starts for Duke13_55:
(Start: 180 @43999 has 162 MA's), (245, 44131),

Gene: Dumbo_37 Start: 32602, Stop: 32847, Start Num: 180
Candidate Starts for Dumbo_37:
(Start: 180 @32602 has 162 MA's), (Start: 205 @32659 has 3 MA's), (221, 32692), (223, 32698), (254, 32752), (262, 32764),

Gene: DumpQuist_9 Start: 6359, Stop: 6036, Start Num: 175
Candidate Starts for DumpQuist_9:
(Start: 175 @6359 has 54 MA's), (199, 6308), (210, 6263), (216, 6245), (261, 6140), (291, 6089),

Gene: DuncansLeg_31 Start: 28758, Stop: 29024, Start Num: 179
Candidate Starts for DuncansLeg_31:
(Start: 179 @28758 has 71 MA's), (Start: 189 @28770 has 10 MA's), (Start: 198 @28803 has 8 MA's), (221, 28851),

Gene: DunneganBoMo_97 Start: 82929, Stop: 83189, Start Num: 182
Candidate Starts for DunneganBoMo_97:
(Start: 182 @82929 has 43 MA's), (275, 83118), (289, 83148), (291, 83151),

Gene: Duplo_60 Start: 38306, Stop: 38034, Start Num: 161
Candidate Starts for Duplo_60:
(Start: 161 @38306 has 101 MA's), (Start: 178 @38297 has 4 MA's), (220, 38204), (262, 38126), (291, 38072),

Gene: Dusk_36 Start: 32787, Stop: 33032, Start Num: 180
Candidate Starts for Dusk_36:
(Start: 180 @32787 has 162 MA's), (Start: 205 @32844 has 3 MA's), (221, 32877), (223, 32883), (251, 32931), (254, 32937), (262, 32949),

Gene: Dusty_122 Start: 70537, Stop: 70830, Start Num: 170
Candidate Starts for Dusty_122:
(Start: 170 @70537 has 12 MA's), (Start: 195 @70585 has 2 MA's), (255, 70714),

Gene: DustyDino_38 Start: 10938, Stop: 11192, Start Num: 182
Candidate Starts for DustyDino_38:
(Start: 162 @10923 has 35 MA's), (Start: 182 @10938 has 43 MA's), (199, 10983), (223, 11034), (231, 11052), (238, 11070),

Gene: DyoEdafos_31 Start: 27675, Stop: 27938, Start Num: 179
Candidate Starts for DyoEdafos_31:
(Start: 179 @27675 has 71 MA's), (Start: 198 @27720 has 8 MA's), (262, 27834),

Gene: EagleEye_60 Start: 38143, Stop: 37871, Start Num: 162
Candidate Starts for EagleEye_60:
(122, 38212), (Start: 162 @38143 has 35 MA's), (Start: 173 @38140 has 9 MA's), (Start: 178 @38134 has 4 MA's), (220, 38041), (235, 37999), (244, 37993), (262, 37963),

Gene: Easy2Say_39 Start: 34385, Stop: 34630, Start Num: 180
Candidate Starts for Easy2Say_39:
(Start: 180 @34385 has 162 MA's), (Start: 205 @34442 has 3 MA's), (221, 34475), (223, 34481), (254, 34535), (262, 34547),

Gene: Ebony_57 Start: 37357, Stop: 37085, Start Num: 162
Candidate Starts for Ebony_57:
(Start: 162 @37357 has 35 MA's), (Start: 178 @37348 has 4 MA's), (262, 37177),

Gene: Echild_58 Start: 37724, Stop: 37452, Start Num: 161
Candidate Starts for Echild_58:
(Start: 161 @37724 has 101 MA's), (Start: 178 @37715 has 4 MA's), (Start: 187 @37703 has 14 MA's), (Start: 189 @37697 has 10 MA's), (244, 37574),

Gene: Eden_34 Start: 24202, Stop: 24432, Start Num: 184
Candidate Starts for Eden_34:

(Start: 156 @24169 has 2 MA's), (Start: 184 @24202 has 74 MA's), (243, 24343), (252, 24349), (257, 24364), (274, 24394), (289, 24424),

Gene: EdogawaKiddo_56 Start: 38208, Stop: 38002, Start Num: 202
Candidate Starts for EdogawaKiddo_56:
(Start: 161 @38274 has 101 MA's), (Start: 178 @38265 has 4 MA's), (Start: 202 @38208 has 2 MA's), (220, 38172), (233, 38133), (255, 38106), (262, 38094),

Gene: Eevee_51 Start: 37090, Stop: 37338, Start Num: 181
Candidate Starts for Eevee_51:
(Start: 181 @37090 has 12 MA's), (223, 37189), (225, 37195), (257, 37249), (259, 37252), (264, 37258), (296, 37327),

Gene: Eidsmoe_58 Start: 38289, Stop: 38017, Start Num: 161
Candidate Starts for Eidsmoe_58:
(Start: 161 @38289 has 101 MA's), (Start: 178 @38280 has 4 MA's), (Start: 202 @38223 has 2 MA's), (220, 38187), (233, 38148), (255, 38121), (262, 38109),

Gene: Ejimix_52 Start: 44918, Stop: 45163, Start Num: 180
Candidate Starts for Ejimix_52:
(Start: 180 @44918 has 162 MA's), (207, 44981), (221, 45011), (222, 45014), (259, 45074), (262, 45077), (264, 45080),

Gene: Elephantoon_57 Start: 37664, Stop: 37392, Start Num: 161
Candidate Starts for Elephantoon_57:
(Start: 161 @37664 has 101 MA's), (Start: 178 @37655 has 4 MA's), (Start: 202 @37598 has 2 MA's), (220, 37562), (233, 37523), (255, 37496), (262, 37484),

Gene: Elfy_29 Start: 22644, Stop: 22913, Start Num: 183
Candidate Starts for Elfy_29:
(Start: 183 @22644 has 16 MA's), (219, 22728), (266, 22830),

Gene: Elite2014_36 Start: 32342, Stop: 32587, Start Num: 180
Candidate Starts for Elite2014_36:
(Start: 180 @32342 has 162 MA's), (Start: 205 @32399 has 3 MA's), (221, 32432), (223, 32438), (254, 32492), (262, 32504),

Gene: Ellewin_96 Start: 82340, Stop: 82600, Start Num: 182
Candidate Starts for Ellewin_96:
(Start: 182 @82340 has 43 MA's), (275, 82529), (289, 82559), (291, 82562),

Gene: Ellson_31 Start: 28745, Stop: 29011, Start Num: 179
Candidate Starts for Ellson_31:
(Start: 179 @28745 has 71 MA's), (Start: 189 @28757 has 10 MA's), (Start: 198 @28790 has 8 MA's), (221, 28838),

Gene: Elph10_38 Start: 32605, Stop: 32850, Start Num: 180
Candidate Starts for Elph10_38:
(Start: 180 @32605 has 162 MA's), (Start: 205 @32662 has 3 MA's), (221, 32695), (223, 32701), (254, 32755), (262, 32767),

Gene: Elva_38 Start: 26309, Stop: 26539, Start Num: 184
Candidate Starts for Elva_38:

(97, 26177), (98, 26180), (108, 26195), (118, 26210), (119, 26213), (127, 26225), (Start: 176 @26300 has 12 MA's), (Start: 184 @26309 has 74 MA's),

Gene: EmiRose_45 Start: 36642, Stop: 36902, Start Num: 172
Candidate Starts for EmiRose_45:
(Start: 172 @36642 has 33 MA's), (226, 36756), (229, 36765), (262, 36816), (264, 36819),

Gene: Emmetator_100 Start: 82884, Stop: 83144, Start Num: 182
Candidate Starts for Emmetator_100:
(Start: 182 @82884 has 43 MA's), (275, 83073), (289, 83103), (291, 83106),

Gene: Emmina_38 Start: 32963, Stop: 33208, Start Num: 180
Candidate Starts for Emmina_38:
(Start: 180 @32963 has 162 MA's), (Start: 205 @33020 has 3 MA's), (221, 33053), (223, 33059), (254, 33113), (262, 33125),

Gene: Emotion_38 Start: 26311, Stop: 26598, Start Num: 161
Candidate Starts for Emotion_38:
(130, 26266), (Start: 161 @26311 has 101 MA's),

Gene: EmyBug_57 Start: 38291, Stop: 38019, Start Num: 161
Candidate Starts for EmyBug_57:
(Start: 161 @38291 has 101 MA's), (Start: 178 @38282 has 4 MA's), (Start: 202 @38225 has 2 MA's), (220, 38189), (233, 38150), (255, 38123), (262, 38111),

Gene: Enceladus_30 Start: 27674, Stop: 27943, Start Num: 179
Candidate Starts for Enceladus_30:
(Start: 179 @27674 has 71 MA's), (Start: 198 @27719 has 8 MA's), (257, 27827),

Gene: Engineer_127 Start: 71970, Stop: 72260, Start Num: 172
Candidate Starts for Engineer_127:
(105, 71862), (115, 71877), (140, 71922), (Start: 172 @71970 has 33 MA's), (Start: 195 @72015 has 2 MA's), (255, 72144),

Gene: EniyanLRS_50 Start: 39059, Stop: 39307, Start Num: 182
Candidate Starts for EniyanLRS_50:
(Start: 182 @39059 has 43 MA's), (218, 39140), (235, 39188), (259, 39221), (262, 39224), (264, 39227), (278, 39260), (295, 39296),

Gene: Epsocamisio_61 Start: 37202, Stop: 36933, Start Num: 172
Candidate Starts for Epsocamisio_61:
(16, 37646), (19, 37622), (27, 37544), (Start: 172 @37202 has 33 MA's), (262, 37025),

Gene: Eraser_34 Start: 26614, Stop: 26871, Start Num: 167
Candidate Starts for Eraser_34:
(43, 26377), (45, 26386), (Start: 167 @26614 has 6 MA's), (199, 26662), (261, 26779),

Gene: Erasmago_208 Start: 112982, Stop: 112728, Start Num: 183
Candidate Starts for Erasmago_208:
(84, 113141), (87, 113132), (108, 113096), (121, 113075), (148, 113030), (Start: 183 @112982 has 16 MA's), (252, 112841),

Gene: Erenyeager_35 Start: 10332, Stop: 10586, Start Num: 182

Candidate Starts for Erenyeager_35:
(Start: 162 @10317 has 35 MA's), (Start: 182 @10332 has 43 MA's), (199, 10377), (223, 10428), (231, 10446), (238, 10464),

Gene: EricMillard_52 Start: 44419, Stop: 44664, Start Num: 180
Candidate Starts for EricMillard_52:
(Start: 180 @44419 has 162 MA's), (207, 44482), (221, 44512), (222, 44515), (259, 44575), (262, 44578), (264, 44581),

Gene: Erik_46 Start: 34230, Stop: 33934, Start Num: 164
Candidate Starts for Erik_46:
(Start: 164 @34230 has 41 MA's), (Start: 183 @34212 has 16 MA's), (188, 34206), (235, 34089), (259, 34056), (264, 34050), (294, 33990), (303, 33942),

Gene: Espica_46 Start: 34231, Stop: 33935, Start Num: 164
Candidate Starts for Espica_46:
(Start: 164 @34231 has 41 MA's), (Start: 183 @34213 has 16 MA's), (188, 34207), (235, 34090), (259, 34057), (264, 34051), (294, 33991), (303, 33943),

Gene: Et2Brutus_56 Start: 37320, Stop: 37048, Start Num: 162
Candidate Starts for Et2Brutus_56:
(Start: 162 @37320 has 35 MA's), (Start: 178 @37311 has 4 MA's), (262, 37140),

Gene: EugeneKrabs_9 Start: 6127, Stop: 5798, Start Num: 175
Candidate Starts for EugeneKrabs_9:
(Start: 175 @6127 has 54 MA's), (199, 6073), (228, 5974), (261, 5905), (271, 5881), (297, 5836),

Gene: Eula_37 Start: 25477, Stop: 25719, Start Num: 184
Candidate Starts for Eula_37:
(Start: 184 @25477 has 74 MA's), (289, 25711),

Gene: Eureka_38 Start: 33647, Stop: 33895, Start Num: 177
Candidate Starts for Eureka_38:
(135, 33578), (136, 33581), (149, 33608), (Start: 177 @33647 has 4 MA's), (Start: 205 @33707 has 3 MA's), (221, 33740), (223, 33746), (254, 33800), (262, 33812),

Gene: EvePickles_72 Start: 39884, Stop: 40201, Start Num: 138
Candidate Starts for EvePickles_72:
(Start: 138 @39884 has 50 MA's), (221, 40034),

Gene: EvilGenius_60 Start: 40027, Stop: 39755, Start Num: 161
Candidate Starts for EvilGenius_60:
(Start: 161 @40027 has 101 MA's), (Start: 178 @40018 has 4 MA's), (Start: 187 @40006 has 14 MA's), (Start: 189 @40000 has 10 MA's), (244, 39877),

Gene: Exile_31 Start: 26521, Stop: 26784, Start Num: 183
Candidate Starts for Exile_31:
(Start: 183 @26521 has 16 MA's), (271, 26719), (285, 26752),

Gene: ExplosioNervosa_58 Start: 38348, Stop: 38085, Start Num: 178
Candidate Starts for ExplosioNervosa_58:
(Start: 161 @38357 has 101 MA's), (Start: 178 @38348 has 4 MA's), (Start: 202 @38291 has 2 MA's), (220, 38255), (233, 38216), (255, 38189), (262, 38177),

Gene: Ezurina_2 Start: 591, Stop: 860, Start Num: 176
Candidate Starts for Ezurina_2:
(Start: 176 @591 has 12 MA's), (221, 687), (251, 741),

Gene: FairyPath_37 Start: 33330, Stop: 33575, Start Num: 180
Candidate Starts for FairyPath_37:
(Start: 180 @33330 has 162 MA's), (Start: 205 @33387 has 3 MA's), (221, 33420), (223, 33426), (254, 33480), (262, 33492),

Gene: Faith1_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for Faith1_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Faja_76 Start: 40656, Stop: 40979, Start Num: 138
Candidate Starts for Faja_76:
(Start: 90 @40596 has 6 MA's), (Start: 138 @40656 has 50 MA's), (255, 40875),

Gene: Fameo_58 Start: 38774, Stop: 38502, Start Num: 161
Candidate Starts for Fameo_58:
(Start: 161 @38774 has 101 MA's), (Start: 178 @38765 has 4 MA's), (Start: 187 @38753 has 14 MA's), (Start: 189 @38747 has 10 MA's), (244, 38624), (262, 38594),

Gene: FarmResident_30 Start: 27563, Stop: 27781, Start Num: 198
Candidate Starts for FarmResident_30:
(Start: 179 @27518 has 71 MA's), (Start: 198 @27563 has 8 MA's), (221, 27611), (262, 27677),

Gene: FatCactus_50 Start: 35904, Stop: 35632, Start Num: 137
Candidate Starts for FatCactus_50:
(Start: 137 @35904 has 12 MA's), (Start: 178 @35895 has 4 MA's), (244, 35754), (262, 35724),

Gene: Fayely_58 Start: 38258, Stop: 37986, Start Num: 161
Candidate Starts for Fayely_58:
(Start: 161 @38258 has 101 MA's), (Start: 178 @38249 has 4 MA's), (Start: 202 @38192 has 2 MA's), (220, 38156), (233, 38117), (255, 38090), (262, 38078),

Gene: Fede_9 Start: 6342, Stop: 6010, Start Num: 175
Candidate Starts for Fede_9:
(Start: 175 @6342 has 54 MA's), (Start: 195 @6303 has 2 MA's), (199, 6291), (206, 6273), (228, 6192), (279, 6087),

Gene: Fibonacci_57 Start: 37326, Stop: 37054, Start Num: 162
Candidate Starts for Fibonacci_57:
(Start: 162 @37326 has 35 MA's), (Start: 178 @37317 has 4 MA's), (262, 37146),

Gene: Filch_38 Start: 32893, Stop: 33138, Start Num: 180
Candidate Starts for Filch_38:
(Start: 180 @32893 has 162 MA's), (Start: 205 @32950 has 3 MA's), (221, 32983), (223, 32989), (254, 33043), (262, 33055),

Gene: Finalfrontier_36 Start: 26101, Stop: 26331, Start Num: 184
Candidate Starts for Finalfrontier_36:

(Start: 184 @26101 has 74 MA's),

Gene: Finemlucis_32 Start: 28698, Stop: 28964, Start Num: 179
Candidate Starts for Finemlucis_32:
(Start: 179 @28698 has 71 MA's), (Start: 198 @28743 has 8 MA's), (222, 28794), (264, 28860), (299, 28932), (302, 28953),

Gene: Finnry_31 Start: 28788, Stop: 29054, Start Num: 179
Candidate Starts for Finnry_31:
(Start: 179 @28788 has 71 MA's), (Start: 189 @28800 has 10 MA's), (Start: 198 @28833 has 8 MA's),

Gene: FireRed_37 Start: 33163, Stop: 33408, Start Num: 180
Candidate Starts for FireRed_37:
(Start: 180 @33163 has 162 MA's), (Start: 205 @33220 has 3 MA's), (221, 33253), (223, 33259), (254, 33313), (262, 33325),

Gene: FiringLine_58 Start: 38424, Stop: 38152, Start Num: 161
Candidate Starts for FiringLine_58:
(Start: 161 @38424 has 101 MA's), (Start: 178 @38415 has 4 MA's), (Start: 187 @38403 has 14 MA's), (Start: 189 @38397 has 10 MA's), (244, 38274),

Gene: FiveHead_43 Start: 26555, Stop: 26893, Start Num: 161
Candidate Starts for FiveHead_43:
(73, 26408), (Start: 161 @26555 has 101 MA's),

Gene: FlameThrower_34 Start: 25814, Stop: 26044, Start Num: 184
Candidate Starts for FlameThrower_34:
(98, 25685), (103, 25694), (108, 25700), (114, 25709), (121, 25721), (125, 25727), (133, 25739), (Start: 176 @25805 has 12 MA's), (Start: 184 @25814 has 74 MA's), (221, 25901), (232, 25928), (243, 25955), (274, 26006), (289, 26036),

Gene: Flaverint_58 Start: 37784, Stop: 37512, Start Num: 162
Candidate Starts for Flaverint_58:
(Start: 162 @37784 has 35 MA's), (Start: 178 @37775 has 4 MA's), (262, 37604),

Gene: Floof_43 Start: 27647, Stop: 27949, Start Num: 163
Candidate Starts for Floof_43:
(Start: 163 @27647 has 36 MA's), (Start: 178 @27665 has 4 MA's), (214, 27767), (221, 27785), (232, 27818), (293, 27932),

Gene: Flutur_33 Start: 24982, Stop: 25248, Start Num: 163
Candidate Starts for Flutur_33:
(43, 24724), (55, 24760), (Start: 163 @24982 has 36 MA's), (259, 25165),

Gene: Flypotenuse_35 Start: 32731, Stop: 32976, Start Num: 180
Candidate Starts for Flypotenuse_35:
(Start: 180 @32731 has 162 MA's), (Start: 205 @32788 has 3 MA's), (221, 32821), (223, 32827), (251, 32875), (254, 32881), (262, 32893),

Gene: FoghornLeghorn_36 Start: 32639, Stop: 32884, Start Num: 180
Candidate Starts for FoghornLeghorn_36:
(Start: 180 @32639 has 162 MA's), (Start: 205 @32696 has 3 MA's), (221, 32729), (223, 32735), (254, 32789), (262, 32801),

Gene: Footloose_59 Start: 33811, Stop: 34044, Start Num: 161
Candidate Starts for Footloose_59:
(Start: 161 @33811 has 101 MA's), (Start: 189 @33826 has 10 MA's), (212, 33895), (233, 33931), (246, 33940), (261, 33967),

Gene: Forester_41 Start: 28747, Stop: 29004, Start Num: 165
Candidate Starts for Forester_41:
(Start: 165 @28747 has 11 MA's), (199, 28801), (256, 28927), (264, 28939), (274, 28951),

Gene: Fork_31 Start: 9648, Stop: 9902, Start Num: 182
Candidate Starts for Fork_31:
(Start: 162 @9633 has 35 MA's), (Start: 182 @9648 has 43 MA's), (199, 9693), (223, 9744), (231, 9762), (238, 9780),

Gene: Franklin22_35 Start: 24188, Stop: 24418, Start Num: 184
Candidate Starts for Franklin22_35:
(10, 23681), (11, 23687), (17, 23756), (23, 23801), (40, 23906), (56, 23963), (74, 24020), (120, 24095), (126, 24104), (129, 24107), (Start: 184 @24188 has 74 MA's), (210, 24260), (243, 24329), (274, 24380), (289, 24410),

Gene: Fryberger_117 Start: 56141, Stop: 56380, Start Num: 187
Candidate Starts for Fryberger_117:
(Start: 187 @56141 has 14 MA's), (242, 56264), (280, 56336), (281, 56339),

Gene: Fullmetal_9 Start: 6128, Stop: 5772, Start Num: 175
Candidate Starts for Fullmetal_9:
(Start: 175 @6128 has 54 MA's), (Start: 195 @6089 has 2 MA's), (201, 6074), (225, 5987), (228, 5978), (276, 5870), (280, 5861), (297, 5822),

Gene: GUPitcher_53 Start: 35925, Stop: 36233, Start Num: 138
Candidate Starts for GUPitcher_53:
(Start: 138 @35925 has 50 MA's), (Start: 187 @35976 has 14 MA's), (223, 36066), (233, 36096), (262, 36135),

Gene: Gabriela_32 Start: 28684, Stop: 28950, Start Num: 179
Candidate Starts for Gabriela_32:
(Start: 179 @28684 has 71 MA's), (Start: 198 @28729 has 8 MA's), (222, 28780), (264, 28846), (299, 28918), (302, 28939),

Gene: Gack_33 Start: 23939, Stop: 24169, Start Num: 184
Candidate Starts for Gack_33:
(4, 23093), (7, 23219), (8, 23249), (17, 23507), (23, 23552), (40, 23657), (56, 23714), (74, 23771), (126, 23855), (129, 23858), (Start: 176 @23930 has 12 MA's), (Start: 184 @23939 has 74 MA's), (210, 24011), (232, 24053), (274, 24131),

Gene: Gage_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for Gage_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: Gardann_32 Start: 28424, Stop: 28690, Start Num: 179
Candidate Starts for Gardann_32:

(Start: 179 @28424 has 71 MA's), (Start: 198 @28469 has 8 MA's), (222, 28520), (264, 28586), (299, 28658), (302, 28679),

Gene: GardenState_42 Start: 27075, Stop: 27341, Start Num: 165
Candidate Starts for GardenState_42:
(Start: 165 @27075 has 11 MA's),

Gene: Gator_35 Start: 32743, Stop: 32988, Start Num: 180
Candidate Starts for Gator_35:
(Start: 180 @32743 has 162 MA's), (Start: 205 @32800 has 3 MA's), (221, 32833), (223, 32839), (254, 32893), (262, 32905),

Gene: Geeche_123 Start: 70760, Stop: 71053, Start Num: 170
Candidate Starts for Geeche_123:
(Start: 170 @70760 has 12 MA's), (Start: 195 @70808 has 2 MA's), (255, 70937),

Gene: Gemini_40 Start: 33642, Stop: 33887, Start Num: 180
Candidate Starts for Gemini_40:
(Start: 180 @33642 has 162 MA's), (Start: 205 @33699 has 3 MA's), (221, 33732), (223, 33738), (254, 33792), (262, 33804),

Gene: Georgie2_59 Start: 38469, Stop: 38197, Start Num: 161
Candidate Starts for Georgie2_59:
(Start: 161 @38469 has 101 MA's), (Start: 178 @38460 has 4 MA's), (Start: 187 @38448 has 14 MA's), (Start: 189 @38442 has 10 MA's),

Gene: Gerri43_3 Start: 977, Stop: 1246, Start Num: 176
Candidate Starts for Gerri43_3:
(Start: 176 @977 has 12 MA's),

Gene: Gibbzilla_63 Start: 33193, Stop: 33492, Start Num: 138
Candidate Starts for Gibbzilla_63:
(Start: 138 @33193 has 50 MA's), (199, 33283), (233, 33364),

Gene: Gilberta_58 Start: 37777, Stop: 37505, Start Num: 162
Candidate Starts for Gilberta_58:
(Start: 162 @37777 has 35 MA's), (Start: 178 @37768 has 4 MA's), (262, 37597),

Gene: Gimesa_41 Start: 36233, Stop: 36436, Start Num: 195
Candidate Starts for Gimesa_41:
(145, 36149), (Start: 174 @36191 has 10 MA's), (Start: 195 @36233 has 2 MA's), (207, 36260), (260, 36359), (263, 36362), (265, 36365), (294, 36416),

Gene: Glexan_35 Start: 32731, Stop: 32976, Start Num: 180
Candidate Starts for Glexan_35:
(Start: 180 @32731 has 162 MA's), (Start: 205 @32788 has 3 MA's), (221, 32821), (223, 32827), (251, 32875), (254, 32881), (262, 32893),

Gene: Globfish_73 Start: 38348, Stop: 38665, Start Num: 138
Candidate Starts for Globfish_73:
(Start: 138 @38348 has 50 MA's), (221, 38498),

Gene: Goib_64 Start: 40122, Stop: 40346, Start Num: 185

Candidate Starts for Goib_64:
(Start: 185 @40122 has 20 MA's), (199, 40164), (221, 40209), (224, 40218), (255, 40269), (259, 40278),

Gene: Goku_38 Start: 33376, Stop: 33624, Start Num: 177
Candidate Starts for Goku_38:
(135, 33307), (136, 33310), (149, 33337), (Start: 177 @33376 has 4 MA's), (Start: 205 @33436 has 3 MA's), (221, 33469), (223, 33475), (254, 33529), (262, 33541),

Gene: GoldDust_40 Start: 33666, Stop: 33986, Start Num: 168
Candidate Starts for GoldDust_40:
(Start: 168 @33666 has 7 MA's), (201, 33732), (273, 33912), (294, 33957),

Gene: GoldenSpark_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for GoldenSpark_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: Goldilocks_38 Start: 32545, Stop: 32790, Start Num: 180
Candidate Starts for Goldilocks_38:
(Start: 180 @32545 has 162 MA's), (Start: 205 @32602 has 3 MA's), (221, 32635), (223, 32641), (254, 32695), (262, 32707),

Gene: Gollum_46 Start: 34296, Stop: 34000, Start Num: 164
Candidate Starts for Gollum_46:
(Start: 164 @34296 has 41 MA's), (Start: 183 @34278 has 16 MA's), (188, 34272), (235, 34155), (259, 34122), (264, 34116), (294, 34056), (303, 34008),

Gene: Gonephishing_53 Start: 42117, Stop: 42329, Start Num: 196
Candidate Starts for Gonephishing_53:
(Start: 189 @42090 has 10 MA's), (Start: 196 @42117 has 1 MA's), (221, 42171), (222, 42174), (257, 42231), (277, 42267),

Gene: GooberAzure_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for GooberAzure_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: Gooberta_40 Start: 33665, Stop: 33985, Start Num: 168
Candidate Starts for Gooberta_40:
(Start: 168 @33665 has 7 MA's), (201, 33731), (273, 33911), (294, 33956),

Gene: Gorpy_72 Start: 39861, Stop: 40178, Start Num: 138
Candidate Starts for Gorpy_72:
(Start: 138 @39861 has 50 MA's), (223, 40017), (233, 40047), (244, 40056), (255, 40074),

Gene: Greely_81 Start: 31000, Stop: 31251, Start Num: 182
Candidate Starts for Greely_81:
(Start: 182 @31000 has 43 MA's), (200, 31045), (233, 31126),

Gene: Greep_38 Start: 33455, Stop: 33700, Start Num: 180
Candidate Starts for Greep_38:

(Start: 180 @33455 has 162 MA's), (Start: 205 @33512 has 3 MA's), (221, 33545), (223, 33551), (254, 33605), (262, 33617),

Gene: Gretchen_42 Start: 28431, Stop: 28688, Start Num: 165
Candidate Starts for Gretchen_42:
(Start: 165 @28431 has 11 MA's), (199, 28485), (256, 28611), (264, 28623), (274, 28635),

Gene: GrimEater_30 Start: 23740, Stop: 23991, Start Num: 183
Candidate Starts for GrimEater_30:
(Start: 183 @23740 has 16 MA's), (270, 23935), (271, 23938), (275, 23947),

Gene: Grist_35 Start: 25278, Stop: 25508, Start Num: 184
Candidate Starts for Grist_35:
(97, 25149), (98, 25152), (110, 25170), (118, 25182), (119, 25185), (127, 25194), (Start: 176 @25269 has 12 MA's), (Start: 184 @25278 has 74 MA's), (243, 25419),

Gene: Gsput1_55 Start: 37586, Stop: 37813, Start Num: 185
Candidate Starts for Gsput1_55:
(Start: 185 @37586 has 20 MA's), (199, 37628), (220, 37670), (257, 37739), (264, 37748), (294, 37796),

Gene: Guey18_121 Start: 57464, Stop: 57703, Start Num: 187
Candidate Starts for Guey18_121:
(Start: 187 @57464 has 14 MA's), (242, 57587), (280, 57659), (281, 57662),

Gene: GumGum_79 Start: 39801, Stop: 40124, Start Num: 138
Candidate Starts for GumGum_79:
(Start: 90 @39741 has 6 MA's), (Start: 138 @39801 has 50 MA's), (255, 40020),

Gene: GuuelaD_32 Start: 28456, Stop: 28722, Start Num: 179
Candidate Starts for GuuelaD_32:
(Start: 179 @28456 has 71 MA's), (Start: 198 @28501 has 8 MA's), (222, 28552), (264, 28618), (299, 28690), (302, 28711),

Gene: Hafay_32 Start: 28500, Stop: 28721, Start Num: 198
Candidate Starts for Hafay_32:
(Start: 179 @28455 has 71 MA's), (Start: 198 @28500 has 8 MA's), (222, 28551), (264, 28617), (299, 28689), (302, 28710),

Gene: Halena_30 Start: 27701, Stop: 27970, Start Num: 179
Candidate Starts for Halena_30:
(Start: 179 @27701 has 71 MA's), (Start: 198 @27746 has 8 MA's), (257, 27854),

Gene: Halley_52 Start: 44132, Stop: 44377, Start Num: 180
Candidate Starts for Halley_52:
(Start: 180 @44132 has 162 MA's), (207, 44195), (221, 44225), (222, 44228), (259, 44288), (262, 44291), (264, 44294),

Gene: Halsey_31 Start: 22590, Stop: 22856, Start Num: 173
Candidate Starts for Halsey_31:
(Start: 173 @22590 has 9 MA's), (Start: 185 @22605 has 20 MA's), (208, 22668), (213, 22686), (272, 22788),

Gene: HanKaySha_38 Start: 32877, Stop: 33122, Start Num: 180
Candidate Starts for HanKaySha_38:
(Start: 180 @32877 has 162 MA's), (Start: 205 @32934 has 3 MA's), (221, 32967), (223, 32973), (254, 33027), (262, 33039),

Gene: Hannaconda_48 Start: 38620, Stop: 38868, Start Num: 180
Candidate Starts for Hannaconda_48:
(Start: 180 @38620 has 162 MA's), (245, 38752),

Gene: Hanray_56 Start: 38212, Stop: 38006, Start Num: 202
Candidate Starts for Hanray_56:
(Start: 161 @38278 has 101 MA's), (Start: 178 @38269 has 4 MA's), (Start: 202 @38212 has 2 MA's), (220, 38176), (233, 38137), (255, 38110), (262, 38098),

Gene: Harella_36 Start: 33247, Stop: 33492, Start Num: 180
Candidate Starts for Harella_36:
(Start: 180 @33247 has 162 MA's), (Start: 205 @33304 has 3 MA's), (221, 33337), (223, 33343), (251, 33391), (254, 33397), (262, 33409),

Gene: Harlequin_45 Start: 34082, Stop: 33786, Start Num: 164
Candidate Starts for Harlequin_45:
(Start: 164 @34082 has 41 MA's), (Start: 183 @34064 has 16 MA's), (188, 34058), (235, 33941), (259, 33908), (264, 33902), (294, 33842), (303, 33794),

Gene: Heffalump_57 Start: 39242, Stop: 38970, Start Num: 161
Candidate Starts for Heffalump_57:
(Start: 161 @39242 has 101 MA's), (Start: 178 @39233 has 4 MA's), (Start: 187 @39221 has 14 MA's), (Start: 189 @39215 has 10 MA's), (244, 39092), (262, 39062),

Gene: Henry_38 Start: 33135, Stop: 33380, Start Num: 180
Candidate Starts for Henry_38:
(Start: 180 @33135 has 162 MA's), (Start: 205 @33192 has 3 MA's), (221, 33225), (223, 33231), (251, 33279), (254, 33285), (262, 33297),

Gene: Herbertwm_56 Start: 38206, Stop: 37934, Start Num: 161
Candidate Starts for Herbertwm_56:
(60, 38407), (Start: 161 @38206 has 101 MA's), (Start: 178 @38197 has 4 MA's), (Start: 187 @38185 has 14 MA's), (199, 38146), (201, 38143), (221, 38101), (223, 38095), (244, 38056), (262, 38026),

Gene: Hestia_67 Start: 36879, Stop: 37202, Start Num: 138
Candidate Starts for Hestia_67:
(Start: 90 @36819 has 6 MA's), (Start: 138 @36879 has 50 MA's), (255, 37098),

Gene: Hidrated_50 Start: 43928, Stop: 44164, Start Num: 189
Candidate Starts for Hidrated_50:
(Start: 189 @43928 has 10 MA's), (Start: 196 @43955 has 1 MA's), (221, 44009), (222, 44012), (257, 44069), (277, 44105), (299, 44153),

Gene: Highbury_38 Start: 32793, Stop: 33038, Start Num: 180
Candidate Starts for Highbury_38:
(Start: 180 @32793 has 162 MA's), (Start: 205 @32850 has 3 MA's), (221, 32883), (223, 32889), (254, 32943), (262, 32955),

Gene: Hillester_77 Start: 39406, Stop: 39702, Start Num: 138
Candidate Starts for Hillester_77:
(Start: 90 @39346 has 6 MA's), (Start: 138 @39406 has 50 MA's),

Gene: HippoHollow_58 Start: 39876, Stop: 39604, Start Num: 161
Candidate Starts for HippoHollow_58:
(17, 40299), (18, 40290), (48, 40116), (60, 40077), (Start: 161 @39876 has 101 MA's), (Start: 187 @39855 has 14 MA's), (Start: 189 @39849 has 10 MA's), (244, 39726), (262, 39696),

Gene: Hiraya_32 Start: 28467, Stop: 28688, Start Num: 198
Candidate Starts for Hiraya_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Hirko_38 Start: 32932, Stop: 33225, Start Num: 168
Candidate Starts for Hirko_38:
(Start: 156 @32917 has 2 MA's), (Start: 168 @32932 has 7 MA's), (217, 33052), (248, 33100), (294, 33196),

Gene: Hiro_46 Start: 34558, Stop: 34262, Start Num: 164
Candidate Starts for Hiro_46:
(Start: 164 @34558 has 41 MA's), (Start: 183 @34540 has 16 MA's), (188, 34534), (207, 34486), (235, 34417), (259, 34384), (264, 34378), (294, 34318), (303, 34270),

Gene: HitchHiker_10 Start: 6310, Stop: 5987, Start Num: 175
Candidate Starts for HitchHiker_10:
(72, 6478), (82, 6460), (98, 6427), (Start: 175 @6310 has 54 MA's), (199, 6259), (204, 6244), (216, 6196), (262, 6088), (291, 6040), (297, 6022),

Gene: HokkenD_45 Start: 42401, Stop: 42646, Start Num: 180
Candidate Starts for HokkenD_45:
(Start: 180 @42401 has 162 MA's), (207, 42464), (221, 42494), (222, 42497), (259, 42557), (262, 42560), (264, 42563),

Gene: Holex_57 Start: 38228, Stop: 38022, Start Num: 202
Candidate Starts for Holex_57:
(Start: 161 @38294 has 101 MA's), (Start: 178 @38285 has 4 MA's), (Start: 202 @38228 has 2 MA's), (220, 38192), (233, 38153), (255, 38126), (262, 38114),

Gene: HollowPurple_36 Start: 10186, Stop: 10440, Start Num: 182
Candidate Starts for HollowPurple_36:
(Start: 162 @10171 has 35 MA's), (Start: 182 @10186 has 43 MA's), (199, 10231), (223, 10282), (231, 10300), (238, 10318),

Gene: Holt_38 Start: 32412, Stop: 32657, Start Num: 180
Candidate Starts for Holt_38:
(Start: 180 @32412 has 162 MA's), (Start: 205 @32469 has 3 MA's), (221, 32502), (223, 32508), (251, 32556), (254, 32562), (262, 32574),

Gene: Honk_39 Start: 24394, Stop: 24654, Start Num: 172
Candidate Starts for Honk_39:
(Start: 172 @24394 has 33 MA's), (194, 24433),

Gene: Hoonter_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for Hoonter_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: Hopey_39 Start: 33412, Stop: 33657, Start Num: 180
Candidate Starts for Hopey_39:
(Start: 180 @33412 has 162 MA's), (Start: 205 @33469 has 3 MA's), (221, 33502), (223, 33508), (254, 33562), (262, 33574),

Gene: HortumSL17_58 Start: 38225, Stop: 37953, Start Num: 161
Candidate Starts for HortumSL17_58:
(Start: 161 @38225 has 101 MA's), (Start: 178 @38216 has 4 MA's), (Start: 202 @38159 has 2 MA's), (220, 38123), (233, 38084), (255, 38057), (262, 38045),

Gene: Hortus1_28 Start: 9181, Stop: 9435, Start Num: 182
Candidate Starts for Hortus1_28:
(144, 9133), (166, 9166), (Start: 182 @9181 has 43 MA's), (199, 9226), (218, 9262), (255, 9349),

Gene: Hubbs_30 Start: 9589, Stop: 9837, Start Num: 182
Candidate Starts for Hubbs_30:
(Start: 150 @9550 has 1 MA's), (Start: 182 @9589 has 43 MA's), (199, 9634), (218, 9670), (283, 9817),

Gene: HufflyPuff_36 Start: 33119, Stop: 33364, Start Num: 180
Candidate Starts for HufflyPuff_36:
(Start: 180 @33119 has 162 MA's), (Start: 205 @33176 has 3 MA's), (221, 33209), (223, 33215), (254, 33269), (262, 33281),

Gene: Huffy_63 Start: 39006, Stop: 39230, Start Num: 185
Candidate Starts for Huffy_63:
(Start: 185 @39006 has 20 MA's), (199, 39048), (221, 39093), (224, 39102), (255, 39153), (259, 39162), (277, 39183),

Gene: Hughesyang_50 Start: 44061, Stop: 44306, Start Num: 180
Candidate Starts for Hughesyang_50:
(Start: 180 @44061 has 162 MA's), (207, 44124), (221, 44154), (222, 44157), (259, 44217), (262, 44220), (264, 44223),

Gene: Hutc2_57 Start: 37326, Stop: 37054, Start Num: 162
Candidate Starts for Hutc2_57:
(Start: 162 @37326 has 35 MA's), (Start: 178 @37317 has 4 MA's), (262, 37146),

Gene: IAmGroot_42 Start: 27740, Stop: 28006, Start Num: 165
Candidate Starts for IAmGroot_42:
(Start: 165 @27740 has 11 MA's),

Gene: IHOP_37 Start: 33369, Stop: 33557, Start Num: 205
Candidate Starts for IHOP_37:
(Start: 180 @33312 has 162 MA's), (Start: 205 @33369 has 3 MA's), (221, 33402), (223, 33408), (254, 33462), (262, 33474),

Gene: IUFootball_36 Start: 26803, Stop: 26994, Start Num: 202
Candidate Starts for IUFootball_36:

(Start: 154 @26752 has 2 MA's), (Start: 202 @26803 has 2 MA's), (259, 26911),

Gene: Icarian_39 Start: 26879, Stop: 27112, Start Num: 184
Candidate Starts for Icarian_39:
(97, 26750), (98, 26753), (110, 26771), (118, 26783), (119, 26786), (127, 26795), (Start: 176 @26870 has 12 MA's), (Start: 184 @26879 has 74 MA's), (199, 26921),

Gene: Icee_36 Start: 32793, Stop: 33038, Start Num: 180
Candidate Starts for Icee_36:
(Start: 180 @32793 has 162 MA's), (Start: 205 @32850 has 3 MA's), (221, 32883), (223, 32889), (254, 32943), (262, 32955),

Gene: Inca_36 Start: 31814, Stop: 32059, Start Num: 180
Candidate Starts for Inca_36:
(Start: 180 @31814 has 162 MA's), (Start: 205 @31871 has 3 MA's), (221, 31904), (223, 31910), (254, 31964), (262, 31976),

Gene: Indlulamithi_37 Start: 32452, Stop: 32694, Start Num: 183
Candidate Starts for Indlulamithi_37:
(Start: 183 @32452 has 16 MA's), (Start: 202 @32506 has 2 MA's), (247, 32593), (288, 32677), (290, 32680),

Gene: IndyLu_35 Start: 25415, Stop: 25645, Start Num: 184
Candidate Starts for IndyLu_35:
(97, 25286), (98, 25289), (110, 25307), (118, 25319), (119, 25322), (127, 25331), (Start: 176 @25406 has 12 MA's), (Start: 184 @25415 has 74 MA's), (243, 25556),

Gene: Insomnia_58 Start: 37837, Stop: 37565, Start Num: 162
Candidate Starts for Insomnia_58:
(Start: 162 @37837 has 35 MA's), (Start: 178 @37828 has 4 MA's), (262, 37657),

Gene: Isolde_71 Start: 38725, Stop: 39048, Start Num: 138
Candidate Starts for Isolde_71:
(Start: 90 @38665 has 6 MA's), (Start: 138 @38725 has 50 MA's), (255, 38944),

Gene: Issa7_34 Start: 9642, Stop: 9896, Start Num: 182
Candidate Starts for Issa7_34:
(Start: 162 @9627 has 35 MA's), (Start: 182 @9642 has 43 MA's), (199, 9687), (223, 9738), (231, 9756), (238, 9774),

Gene: Iter_34 Start: 24797, Stop: 25063, Start Num: 163
Candidate Starts for Iter_34:
(Start: 163 @24797 has 36 MA's), (259, 24980),

Gene: Itos_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for Itos_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: IttyBittyPiggy_33 Start: 24853, Stop: 25107, Start Num: 160
Candidate Starts for IttyBittyPiggy_33:
(43, 24598), (55, 24634), (Start: 160 @24853 has 5 MA's),

Gene: JSwag_63 Start: 37391, Stop: 37122, Start Num: 172
Candidate Starts for JSwag_63:
(16, 37835), (19, 37811), (27, 37733), (Start: 172 @37391 has 33 MA's), (262, 37214),

Gene: Jabb_37 Start: 25564, Stop: 25806, Start Num: 184
Candidate Starts for Jabb_37:
(Start: 184 @25564 has 74 MA's), (289, 25798),

Gene: Jabith_58 Start: 37838, Stop: 37566, Start Num: 162
Candidate Starts for Jabith_58:
(Start: 162 @37838 has 35 MA's), (Start: 178 @37829 has 4 MA's), (262, 37658),

Gene: Jacko_31 Start: 9673, Stop: 9921, Start Num: 182
Candidate Starts for Jacko_31:
(Start: 182 @9673 has 43 MA's), (Start: 189 @9685 has 10 MA's), (199, 9718), (261, 9853),

Gene: JakeTheSnake_77 Start: 41715, Stop: 42032, Start Num: 138
Candidate Starts for JakeTheSnake_77:
(Start: 90 @41652 has 6 MA's), (Start: 138 @41715 has 50 MA's),

Gene: Janeemi_35 Start: 26823, Stop: 27089, Start Num: 163
Candidate Starts for Janeemi_35:
(Start: 163 @26823 has 36 MA's),

Gene: Jankie_31 Start: 23923, Stop: 24174, Start Num: 183
Candidate Starts for Jankie_31:
(Start: 183 @23923 has 16 MA's), (270, 24118), (271, 24121),

Gene: JasmineDragon_39 Start: 26463, Stop: 26750, Start Num: 161
Candidate Starts for JasmineDragon_39:
(Start: 161 @26463 has 101 MA's), (261, 26655),

Gene: JeTaime_39 Start: 33936, Stop: 34181, Start Num: 180
Candidate Starts for JeTaime_39:
(Start: 180 @33936 has 162 MA's), (Start: 205 @33993 has 3 MA's), (221, 34026), (223, 34032), (254, 34086), (262, 34098),

Gene: JeanClaude_54 Start: 30349, Stop: 30648, Start Num: 138
Candidate Starts for JeanClaude_54:
(Start: 138 @30349 has 50 MA's), (199, 30439),

Gene: JellyBread_71 Start: 38870, Stop: 39193, Start Num: 138
Candidate Starts for JellyBread_71:
(Start: 90 @38810 has 6 MA's), (Start: 138 @38870 has 50 MA's), (255, 39089),

Gene: Jerm_60 Start: 38841, Stop: 38569, Start Num: 161
Candidate Starts for Jerm_60:
(Start: 161 @38841 has 101 MA's), (Start: 178 @38832 has 4 MA's), (Start: 187 @38820 has 14 MA's), (Start: 189 @38814 has 10 MA's), (244, 38691),

Gene: JessellCookie_9 Start: 6219, Stop: 5899, Start Num: 175
Candidate Starts for JessellCookie_9:
(Start: 175 @6219 has 54 MA's), (199, 6168), (201, 6165), (261, 6000), (297, 5931),

Gene: Jester_45 Start: 34013, Stop: 33717, Start Num: 164
Candidate Starts for Jester_45:
(Start: 164 @34013 has 41 MA's), (Start: 183 @33995 has 16 MA's), (188, 33989), (235, 33872), (259, 33839), (264, 33833), (294, 33773), (303, 33725),

Gene: Jiawan_56 Start: 38310, Stop: 38038, Start Num: 161
Candidate Starts for Jiawan_56:
(Start: 161 @38310 has 101 MA's), (Start: 178 @38301 has 4 MA's), (Start: 202 @38244 has 2 MA's), (220, 38208), (233, 38169), (255, 38142), (262, 38130),

Gene: JimmyPG_9 Start: 6105, Stop: 5752, Start Num: 178
Candidate Starts for JimmyPG_9:
(114, 6201), (Start: 175 @6108 has 54 MA's), (Start: 178 @6105 has 4 MA's), (Start: 195 @6069 has 2 MA's), (227, 5961), (246, 5916), (280, 5841), (297, 5802),

Gene: Jinkies_45 Start: 34146, Stop: 34457, Start Num: 168
Candidate Starts for Jinkies_45:
(Start: 168 @34146 has 7 MA's), (Start: 183 @34164 has 16 MA's), (212, 34263), (215, 34272), (280, 34398), (297, 34434),

Gene: Jobypre_31 Start: 28829, Stop: 29050, Start Num: 198
Candidate Starts for Jobypre_31:
(Start: 179 @28784 has 71 MA's), (Start: 189 @28796 has 10 MA's), (Start: 198 @28829 has 8 MA's),

Gene: JoeDirt_30 Start: 27672, Stop: 27941, Start Num: 179
Candidate Starts for JoeDirt_30:
(Start: 179 @27672 has 71 MA's), (Start: 198 @27717 has 8 MA's), (257, 27825),

Gene: Joemato_33 Start: 24755, Stop: 25021, Start Num: 163
Candidate Starts for Joemato_33:
(43, 24497), (Start: 163 @24755 has 36 MA's), (259, 24938),

Gene: JohnDoe_33 Start: 24746, Stop: 25012, Start Num: 163
Candidate Starts for JohnDoe_33:
(43, 24488), (Start: 163 @24746 has 36 MA's), (259, 24929),

Gene: JohnThicc_39 Start: 26555, Stop: 26893, Start Num: 161
Candidate Starts for JohnThicc_39:
(73, 26408), (Start: 161 @26555 has 101 MA's),

Gene: Johnathan_35 Start: 24821, Stop: 25051, Start Num: 184
Candidate Starts for Johnathan_35:
(Start: 184 @24821 has 74 MA's),

Gene: JonJames_133 Start: 77174, Stop: 77473, Start Num: 170
Candidate Starts for JonJames_133:
(Start: 170 @77174 has 12 MA's), (199, 77234), (214, 77276), (221, 77285), (233, 77321), (255, 77351),

Gene: JordanFarm_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for JordanFarm_9:

(102, 6161), (Start: 175 @6089 has 54 MA's), (Start: 195 @6050 has 2 MA's), (215, 5978), (228, 5939), (298, 5798),

Gene: Joselito_58 Start: 37786, Stop: 37514, Start Num: 162
Candidate Starts for Joselito_58:
(Start: 162 @37786 has 35 MA's), (Start: 178 @37777 has 4 MA's), (262, 37606),

Gene: Journey13_52 Start: 36811, Stop: 36539, Start Num: 161
Candidate Starts for Journey13_52:
(Start: 161 @36811 has 101 MA's), (Start: 178 @36802 has 4 MA's), (Start: 189 @36784 has 10 MA's), (223, 36700), (244, 36661), (262, 36631),

Gene: Jovita_37 Start: 25579, Stop: 25821, Start Num: 184
Candidate Starts for Jovita_37:
(Start: 184 @25579 has 74 MA's), (289, 25813),

Gene: JoyLin_51 Start: 37210, Stop: 37458, Start Num: 181
Candidate Starts for JoyLin_51:
(Start: 181 @37210 has 12 MA's), (223, 37309), (225, 37315), (257, 37369), (259, 37372), (264, 37378), (296, 37447),

Gene: Jsquared_56 Start: 37405, Stop: 37133, Start Num: 162
Candidate Starts for Jsquared_56:
(Start: 162 @37405 has 35 MA's), (Start: 187 @37384 has 14 MA's), (Start: 189 @37378 has 10 MA's), (244, 37255), (251, 37243),

Gene: Jstan_36 Start: 26608, Stop: 26865, Start Num: 167
Candidate Starts for Jstan_36:
(43, 26371), (45, 26380), (Start: 167 @26608 has 6 MA's), (199, 26656), (261, 26773),

Gene: Jubie_31 Start: 28785, Stop: 29051, Start Num: 179
Candidate Starts for Jubie_31:
(Start: 179 @28785 has 71 MA's), (Start: 189 @28797 has 10 MA's), (Start: 198 @28830 has 8 MA's),

Gene: Juicebox_39 Start: 32245, Stop: 32553, Start Num: 123
Candidate Starts for Juicebox_39:
(Start: 123 @32245 has 1 MA's), (Start: 137 @32269 has 12 MA's), (Start: 143 @32281 has 1 MA's), (Start: 156 @32302 has 2 MA's), (158, 32305), (191, 32350), (197, 32368), (218, 32404), (224, 32422), (231, 32443), (232, 32446), (237, 32455), (271, 32518),

Gene: JuicyJay_54 Start: 45887, Stop: 46132, Start Num: 180
Candidate Starts for JuicyJay_54:
(Start: 180 @45887 has 162 MA's), (207, 45950), (221, 45980), (222, 45983), (259, 46043), (262, 46046), (264, 46049),

Gene: JuneStar_33 Start: 26763, Stop: 27023, Start Num: 163
Candidate Starts for JuneStar_33:
(Start: 163 @26763 has 36 MA's), (259, 26922),

Gene: KSunshine22_102 Start: 83941, Stop: 84201, Start Num: 182
Candidate Starts for KSunshine22_102:
(Start: 182 @83941 has 43 MA's), (289, 84160), (291, 84163),

Gene: Kabloowy_73 Start: 39754, Stop: 40077, Start Num: 138
Candidate Starts for Kabloowy_73:
(Start: 138 @39754 has 50 MA's), (255, 39973),

Gene: Kahlid_32 Start: 28472, Stop: 28693, Start Num: 198
Candidate Starts for Kahlid_32:
(Start: 179 @28427 has 71 MA's), (Start: 198 @28472 has 8 MA's), (222, 28523), (264, 28589), (299, 28661), (302, 28682),

Gene: Kalah2_52 Start: 44487, Stop: 44732, Start Num: 180
Candidate Starts for Kalah2_52:
(Start: 180 @44487 has 162 MA's), (207, 44550), (221, 44580), (222, 44583), (259, 44643), (262, 44646), (264, 44649),

Gene: Kamdara_34 Start: 25994, Stop: 26224, Start Num: 184
Candidate Starts for Kamdara_34:
(21, 25574), (28, 25637), (31, 25655), (34, 25676), (38, 25685), (42, 25709), (47, 25727), (50, 25733), (58, 25760), (59, 25763), (63, 25784), (65, 25787), (67, 25796), (72, 25814), (79, 25826), (86, 25841), (93, 25856), (98, 25865), (103, 25874), (108, 25880), (114, 25889), (121, 25901), (125, 25907), (Start: 176 @25985 has 12 MA's), (Start: 184 @25994 has 74 MA's), (210, 26066), (221, 26081), (243, 26135), (274, 26186), (289, 26216),

Gene: Kanye_39 Start: 34121, Stop: 34366, Start Num: 180
Candidate Starts for Kanye_39:
(Start: 180 @34121 has 162 MA's), (Start: 205 @34178 has 3 MA's), (221, 34211), (223, 34217), (254, 34271), (262, 34283),

Gene: KashFlow_45 Start: 38241, Stop: 38489, Start Num: 180
Candidate Starts for KashFlow_45:
(Start: 180 @38241 has 162 MA's), (245, 38373),

Gene: Kate33_36 Start: 25175, Stop: 25417, Start Num: 184
Candidate Starts for Kate33_36:
(Start: 184 @25175 has 74 MA's), (243, 25316),

Gene: KatherineG_64 Start: 37864, Stop: 37595, Start Num: 172
Candidate Starts for KatherineG_64:
(Start: 172 @37864 has 33 MA's), (262, 37687),

Gene: Katzastrophic_35 Start: 25943, Stop: 26173, Start Num: 184
Candidate Starts for Katzastrophic_35:
(98, 25814), (103, 25823), (108, 25829), (114, 25838), (121, 25850), (125, 25856), (133, 25868), (Start: 176 @25934 has 12 MA's), (Start: 184 @25943 has 74 MA's), (221, 26030), (243, 26084), (274, 26135), (289, 26165),

Gene: Kaylissa_33 Start: 24719, Stop: 24961, Start Num: 163
Candidate Starts for Kaylissa_33:
(Start: 163 @24719 has 36 MA's), (259, 24878),

Gene: KeAlii_33 Start: 24733, Stop: 24990, Start Num: 160
Candidate Starts for KeAlii_33:
(54, 24508), (Start: 160 @24733 has 5 MA's),

Gene: Keelan_118 Start: 57003, Stop: 57242, Start Num: 187
Candidate Starts for Keelan_118:
(132, 56925), (Start: 187 @57003 has 14 MA's), (199, 57042), (207, 57057), (233, 57123), (280, 57198), (291, 57219),

Gene: Kenzers_36 Start: 25402, Stop: 25644, Start Num: 184
Candidate Starts for Kenzers_36:
(Start: 184 @25402 has 74 MA's), (289, 25636),

Gene: Keough_9 Start: 6092, Stop: 5736, Start Num: 175
Candidate Starts for Keough_9:
(Start: 175 @6092 has 54 MA's), (Start: 195 @6053 has 2 MA's), (201, 6038), (228, 5942), (276, 5834), (280, 5825), (297, 5786),

Gene: Kerberos_60 Start: 38268, Stop: 37996, Start Num: 161
Candidate Starts for Kerberos_60:
(Start: 161 @38268 has 101 MA's), (Start: 178 @38259 has 4 MA's), (220, 38166), (262, 38088), (291, 38034),

Gene: Keziacharles14_58 Start: 39366, Stop: 39094, Start Num: 161
Candidate Starts for Keziacharles14_58:
(Start: 161 @39366 has 101 MA's), (Start: 178 @39357 has 4 MA's), (Start: 202 @39300 has 2 MA's), (220, 39264), (235, 39222),

Gene: Khuang_61 Start: 36119, Stop: 36397, Start Num: 183
Candidate Starts for Khuang_61:
(133, 36041), (Start: 183 @36119 has 16 MA's), (199, 36164), (226, 36221), (227, 36224), (257, 36290),

Gene: Kieran_34 Start: 25998, Stop: 26228, Start Num: 184
Candidate Starts for Kieran_34:
(21, 25578), (28, 25641), (31, 25659), (34, 25680), (38, 25689), (42, 25713), (47, 25731), (50, 25737), (58, 25764), (59, 25767), (63, 25788), (65, 25791), (72, 25818), (79, 25830), (86, 25845), (93, 25860), (98, 25869), (103, 25878), (108, 25884), (114, 25893), (121, 25905), (125, 25911), (Start: 176 @25989 has 12 MA's), (Start: 184 @25998 has 74 MA's), (210, 26070), (221, 26085), (243, 26139), (274, 26190), (289, 26220),

Gene: Kikiko_7 Start: 5275, Stop: 4988, Start Num: 179
Candidate Starts for Kikiko_7:
(Start: 179 @5275 has 71 MA's), (199, 5227), (220, 5185), (256, 5101),

Gene: Kimba_57 Start: 37358, Stop: 37086, Start Num: 162
Candidate Starts for Kimba_57:
(Start: 162 @37358 has 35 MA's), (Start: 178 @37349 has 4 MA's), (262, 37178),

Gene: Kimchi_39 Start: 33128, Stop: 33373, Start Num: 180
Candidate Starts for Kimchi_39:
(Start: 180 @33128 has 162 MA's), (Start: 205 @33185 has 3 MA's), (221, 33218), (223, 33224), (254, 33278), (262, 33290),

Gene: KingCyrus_60 Start: 40022, Stop: 39750, Start Num: 161
Candidate Starts for KingCyrus_60:

(Start: 161 @40022 has 101 MA's), (Start: 178 @40013 has 4 MA's), (Start: 187 @40001 has 14 MA's), (Start: 189 @39995 has 10 MA's), (244, 39872),

Gene: KingKamren_9 Start: 6124, Stop: 5798, Start Num: 175
Candidate Starts for KingKamren_9:
(Start: 175 @6124 has 54 MA's), (199, 6073), (261, 5905), (297, 5836),

Gene: Kingsolomon_31 Start: 28784, Stop: 29050, Start Num: 179
Candidate Starts for Kingsolomon_31:
(Start: 179 @28784 has 71 MA's), (Start: 189 @28796 has 10 MA's), (Start: 198 @28829 has 8 MA's),

Gene: KirDoubleO7_29 Start: 28812, Stop: 29033, Start Num: 198
Candidate Starts for KirDoubleO7_29:
(Start: 179 @28767 has 71 MA's), (Start: 189 @28779 has 10 MA's), (Start: 198 @28812 has 8 MA's), (221, 28860),

Gene: Klein_52 Start: 43699, Stop: 43944, Start Num: 180
Candidate Starts for Klein_52:
(Start: 180 @43699 has 162 MA's), (207, 43762), (221, 43792), (222, 43795), (259, 43855), (262, 43858), (264, 43861),

Gene: Klodlith_57 Start: 37984, Stop: 37712, Start Num: 161
Candidate Starts for Klodlith_57:
(Start: 161 @37984 has 101 MA's), (Start: 202 @37918 has 2 MA's), (220, 37882), (255, 37816), (262, 37804), (267, 37795),

Gene: Koduck_59 Start: 37723, Stop: 37412, Start Num: 137
Candidate Starts for Koduck_59:
(12, 38146), (39, 37963), (46, 37924), (Start: 137 @37723 has 12 MA's), (Start: 162 @37684 has 35 MA's), (Start: 189 @37657 has 10 MA's), (244, 37534), (251, 37522),

Gene: Kosier_9 Start: 6342, Stop: 6010, Start Num: 175
Candidate Starts for Kosier_9:
(Start: 175 @6342 has 54 MA's), (Start: 195 @6303 has 2 MA's), (199, 6291), (206, 6273), (228, 6192), (279, 6087),

Gene: Kostya_38 Start: 33136, Stop: 33381, Start Num: 180
Candidate Starts for Kostya_38:
(Start: 180 @33136 has 162 MA's), (Start: 205 @33193 has 3 MA's), (221, 33226), (223, 33232), (254, 33286), (262, 33298),

Gene: Krishelle_46 Start: 34658, Stop: 34362, Start Num: 164
Candidate Starts for Krishelle_46:
(Start: 164 @34658 has 41 MA's), (Start: 183 @34640 has 16 MA's), (188, 34634), (235, 34517), (259, 34484), (264, 34478), (294, 34418), (303, 34370),

Gene: Kropertea_30 Start: 27482, Stop: 27745, Start Num: 179
Candidate Starts for Kropertea_30:
(Start: 179 @27482 has 71 MA's), (Start: 198 @27527 has 8 MA's), (262, 27641),

Gene: Krypton555_31 Start: 28682, Stop: 28948, Start Num: 179
Candidate Starts for Krypton555_31:

(Start: 151 @28643 has 1 MA's), (Start: 179 @28682 has 71 MA's), (Start: 189 @28694 has 10 MA's), (Start: 198 @28727 has 8 MA's), (221, 28775),

Gene: Kukla_56 Start: 35378, Stop: 35701, Start Num: 138
Candidate Starts for Kukla_56:
(113, 35345), (Start: 138 @35378 has 50 MA's), (Start: 195 @35459 has 2 MA's), (203, 35480), (230, 35555), (257, 35594), (285, 35648),

Gene: Kumao_40 Start: 35332, Stop: 35592, Start Num: 176
Candidate Starts for Kumao_40:
(Start: 176 @35332 has 12 MA's), (Start: 183 @35341 has 16 MA's), (201, 35392), (223, 35440), (234, 35470), (246, 35479), (257, 35500), (259, 35503), (261, 35506),

Gene: Kumotta_57 Start: 33061, Stop: 33339, Start Num: 181
Candidate Starts for Kumotta_57:
(Start: 181 @33061 has 12 MA's), (199, 33109), (251, 33223),

Gene: L5_56 Start: 37810, Stop: 37499, Start Num: 137
Candidate Starts for L5_56:
(12, 38233), (39, 38050), (46, 38011), (Start: 137 @37810 has 12 MA's), (Start: 162 @37771 has 35 MA's), (Start: 189 @37744 has 10 MA's), (244, 37621), (251, 37609),

Gene: LadyAstra_39 Start: 26498, Stop: 26785, Start Num: 161
Candidate Starts for LadyAstra_39:
(Start: 161 @26498 has 101 MA's),

Gene: Lahqtemish_35 Start: 25448, Stop: 25690, Start Num: 184
Candidate Starts for Lahqtemish_35:
(Start: 184 @25448 has 74 MA's), (243, 25589),

Gene: Larenn_57 Start: 38431, Stop: 38159, Start Num: 161
Candidate Starts for Larenn_57:
(Start: 161 @38431 has 101 MA's), (Start: 189 @38404 has 10 MA's), (201, 38368), (221, 38326), (244, 38281), (262, 38251), (267, 38242),

Gene: Lasker_74 Start: 40249, Stop: 40572, Start Num: 138
Candidate Starts for Lasker_74:
(Start: 138 @40249 has 50 MA's), (255, 40468),

Gene: LastNadiia_6 Start: 3336, Stop: 3599, Start Num: 172
Candidate Starts for LastNadiia_6:
(Start: 172 @3336 has 33 MA's), (220, 3429), (269, 3522),

Gene: LastResort_62 Start: 37443, Stop: 37174, Start Num: 172
Candidate Starts for LastResort_62:
(16, 37887), (19, 37863), (27, 37785), (Start: 172 @37443 has 33 MA's), (262, 37266),

Gene: Lawnathon_76 Start: 38975, Stop: 39298, Start Num: 138
Candidate Starts for Lawnathon_76:
(Start: 138 @38975 has 50 MA's), (255, 39194),

Gene: LeBron_30 Start: 27716, Stop: 27985, Start Num: 179
Candidate Starts for LeBron_30:

(Start: 179 @27716 has 71 MA's), (Start: 198 @27761 has 8 MA's), (257, 27869),

Gene: LeBruni_73 Start: 38212, Stop: 38529, Start Num: 138
Candidate Starts for LeBruni_73:
(64, 38089), (Start: 138 @38212 has 50 MA's), (188, 38281), (264, 38440),

Gene: LeeroyJenkins_54 Start: 34043, Stop: 34282, Start Num: 185
Candidate Starts for LeeroyJenkins_54:
(Start: 185 @34043 has 20 MA's), (207, 34100), (220, 34127), (223, 34136),

Gene: Lego_33 Start: 24673, Stop: 24915, Start Num: 163
Candidate Starts for Lego_33:
(Start: 163 @24673 has 36 MA's),

Gene: LeoJr_107 Start: 87292, Stop: 87555, Start Num: 182
Candidate Starts for LeoJr_107:
(Start: 182 @87292 has 43 MA's), (275, 87481),

Gene: Leopard_52 Start: 39719, Stop: 39474, Start Num: 180
Candidate Starts for Leopard_52:
(Start: 180 @39719 has 162 MA's), (207, 39659), (220, 39632), (233, 39593), (254, 39569), (257, 39563), (262, 39557), (274, 39533),

Gene: Leviathan_60 Start: 38898, Stop: 38626, Start Num: 161
Candidate Starts for Leviathan_60:
(Start: 161 @38898 has 101 MA's), (Start: 178 @38889 has 4 MA's), (Start: 187 @38877 has 14 MA's), (Start: 189 @38871 has 10 MA's), (244, 38748),

Gene: Lewan_32 Start: 28467, Stop: 28688, Start Num: 198
Candidate Starts for Lewan_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Liebe_36 Start: 26803, Stop: 26994, Start Num: 202
Candidate Starts for Liebe_36:
(Start: 154 @26752 has 2 MA's), (Start: 202 @26803 has 2 MA's), (259, 26911),

Gene: Lifes_48 Start: 30666, Stop: 30905, Start Num: 185
Candidate Starts for Lifes_48:
(104, 30549), (117, 30567), (Start: 185 @30666 has 20 MA's), (207, 30723), (223, 30759),

Gene: LilDestine_32 Start: 28421, Stop: 28687, Start Num: 179
Candidate Starts for LilDestine_32:
(Start: 179 @28421 has 71 MA's), (192, 28445), (Start: 198 @28466 has 8 MA's), (222, 28517), (264, 28583), (299, 28655), (302, 28676),

Gene: LilTurb_59 Start: 38722, Stop: 38450, Start Num: 161
Candidate Starts for LilTurb_59:
(Start: 161 @38722 has 101 MA's), (Start: 178 @38713 has 4 MA's), (Start: 187 @38701 has 14 MA's), (Start: 189 @38695 has 10 MA's), (244, 38572),

Gene: Lilac_39 Start: 32632, Stop: 32877, Start Num: 180
Candidate Starts for Lilac_39:

(Start: 180 @32632 has 162 MA's), (Start: 205 @32689 has 3 MA's), (221, 32722), (223, 32728), (254, 32782), (262, 32794),

Gene: Lilizi_39 Start: 32840, Stop: 33085, Start Num: 180
Candidate Starts for Lilizi_39:
(Start: 180 @32840 has 162 MA's), (Start: 205 @32897 has 3 MA's), (221, 32930), (223, 32936), (254, 32990), (262, 33002),

Gene: Lilleskat_56 Start: 38227, Stop: 37955, Start Num: 161
Candidate Starts for Lilleskat_56:
(Start: 161 @38227 has 101 MA's), (Start: 178 @38218 has 4 MA's), (Start: 202 @38161 has 2 MA's), (220, 38125), (233, 38086), (255, 38059), (262, 38047),

Gene: Lillie_46 Start: 34298, Stop: 34002, Start Num: 164
Candidate Starts for Lillie_46:
(Start: 164 @34298 has 41 MA's), (Start: 183 @34280 has 16 MA's), (188, 34274), (235, 34157), (259, 34124), (264, 34118), (294, 34058), (303, 34010),

Gene: Lilo27_37 Start: 25387, Stop: 25629, Start Num: 184
Candidate Starts for Lilo27_37:
(Start: 184 @25387 has 74 MA's), (289, 25621),

Gene: Lilpickle_36 Start: 32342, Stop: 32587, Start Num: 180
Candidate Starts for Lilpickle_36:
(Start: 180 @32342 has 162 MA's), (Start: 205 @32399 has 3 MA's), (221, 32432), (223, 32438), (254, 32492), (262, 32504),

Gene: LilyLou_9 Start: 6368, Stop: 6045, Start Num: 175
Candidate Starts for LilyLou_9:
(Start: 175 @6368 has 54 MA's), (199, 6317), (210, 6272), (216, 6254), (261, 6149), (291, 6098),

Gene: LimaBean_35 Start: 24870, Stop: 25100, Start Num: 184
Candidate Starts for LimaBean_35:
(Start: 184 @24870 has 74 MA's),

Gene: LionsBait_60 Start: 39877, Stop: 39605, Start Num: 161
Candidate Starts for LionsBait_60:
(17, 40300), (18, 40291), (48, 40117), (60, 40078), (Start: 161 @39877 has 101 MA's), (Start: 187 @39856 has 14 MA's), (Start: 189 @39850 has 10 MA's), (244, 39727), (262, 39697),

Gene: LisoBros_35 Start: 26801, Stop: 27052, Start Num: 183
Candidate Starts for LisoBros_35:
(15, 26342), (Start: 123 @26714 has 1 MA's), (Start: 183 @26801 has 16 MA's), (221, 26891), (243, 26951), (268, 26990), (271, 26999), (275, 27008), (281, 27023), (285, 27032),

Gene: LittleE_56 Start: 43957, Stop: 44196, Start Num: 189
Candidate Starts for LittleE_56:
(Start: 189 @43957 has 10 MA's), (Start: 196 @43984 has 1 MA's), (221, 44038), (222, 44041), (257, 44098), (277, 44134),

Gene: Livelaughbron_38 Start: 33249, Stop: 33494, Start Num: 180
Candidate Starts for Livelaughbron_38:

(Start: 180 @33249 has 162 MA's), (Start: 205 @33306 has 3 MA's), (221, 33339), (223, 33345), (254, 33399), (262, 33411),

Gene: LiyuLake_31 Start: 28737, Stop: 29003, Start Num: 179
Candidate Starts for LiyuLake_31:
(Start: 179 @28737 has 71 MA's), (Start: 189 @28749 has 10 MA's), (Start: 198 @28782 has 8 MA's), (221, 28830),

Gene: Lizalica_32 Start: 24547, Stop: 24813, Start Num: 163
Candidate Starts for Lizalica_32:
(Start: 163 @24547 has 36 MA's), (259, 24730),

Gene: Loadrie_32 Start: 28454, Stop: 28720, Start Num: 179
Candidate Starts for Loadrie_32:
(Start: 179 @28454 has 71 MA's), (Start: 198 @28499 has 8 MA's), (222, 28550), (264, 28616), (299, 28688), (302, 28709),

Gene: LogiBear_62 Start: 37598, Stop: 37332, Start Num: 168
Candidate Starts for LogiBear_62:
(Start: 168 @37598 has 7 MA's), (255, 37430), (262, 37418),

Gene: Lokk_55 Start: 37800, Stop: 37528, Start Num: 161
Candidate Starts for Lokk_55:
(Start: 161 @37800 has 101 MA's), (Start: 189 @37773 has 10 MA's), (244, 37650), (262, 37620),

Gene: Lolly9_31 Start: 28548, Stop: 28814, Start Num: 179
Candidate Starts for Lolly9_31:
(Start: 179 @28548 has 71 MA's), (Start: 189 @28560 has 10 MA's), (Start: 198 @28593 has 8 MA's),

Gene: LoneWolf_59 Start: 38258, Stop: 37986, Start Num: 161
Candidate Starts for LoneWolf_59:
(Start: 161 @38258 has 101 MA's), (Start: 178 @38249 has 4 MA's), (Start: 202 @38192 has 2 MA's), (220, 38156), (244, 38108), (262, 38078),

Gene: Looper_63 Start: 37355, Stop: 37086, Start Num: 172
Candidate Starts for Looper_63:
(16, 37799), (19, 37775), (27, 37697), (Start: 172 @37355 has 33 MA's), (262, 37178),

Gene: Loviatar_37 Start: 27431, Stop: 27664, Start Num: 184
Candidate Starts for Loviatar_37:
(97, 27302), (98, 27305), (110, 27323), (118, 27335), (119, 27338), (127, 27347), (Start: 176 @27422 has 12 MA's), (Start: 184 @27431 has 74 MA's), (199, 27473),

Gene: Lozinak_125 Start: 71628, Stop: 71921, Start Num: 170
Candidate Starts for Lozinak_125:
(Start: 170 @71628 has 12 MA's), (Start: 195 @71676 has 2 MA's), (255, 71805),

Gene: Lucivia_58 Start: 37835, Stop: 37563, Start Num: 162
Candidate Starts for Lucivia_58:
(Start: 162 @37835 has 35 MA's), (Start: 178 @37826 has 4 MA's), (262, 37655),

Gene: Lucky2013_51 Start: 40948, Stop: 41187, Start Num: 189
Candidate Starts for Lucky2013_51:

(Start: 189 @40948 has 10 MA's), (Start: 196 @40975 has 1 MA's), (221, 41029), (222, 41032), (257, 41089), (277, 41125),

Gene: Lucyedi_59 Start: 38336, Stop: 38067, Start Num: 173
Candidate Starts for Lucyedi_59:
(122, 38408), (Start: 162 @38339 has 35 MA's), (Start: 173 @38336 has 9 MA's), (Start: 178 @38330 has 4 MA's), (220, 38237), (235, 38195), (244, 38189), (262, 38159),

Gene: Lumos_31 Start: 28781, Stop: 29047, Start Num: 179
Candidate Starts for Lumos_31:
(Start: 179 @28781 has 71 MA's), (Start: 189 @28793 has 10 MA's), (Start: 198 @28826 has 8 MA's),

Gene: Lupine_29 Start: 9261, Stop: 9509, Start Num: 182
Candidate Starts for Lupine_29:
(Start: 150 @9222 has 1 MA's), (Start: 182 @9261 has 43 MA's), (199, 9306), (218, 9342), (283, 9489),

Gene: Lyell_35 Start: 10250, Stop: 10504, Start Num: 182
Candidate Starts for Lyell_35:
(Start: 162 @10235 has 35 MA's), (Start: 182 @10250 has 43 MA's), (199, 10295), (223, 10346), (231, 10364), (238, 10382),

Gene: Lynlen_36 Start: 25402, Stop: 25644, Start Num: 184
Candidate Starts for Lynlen_36:
(Start: 184 @25402 has 74 MA's), (289, 25636),

Gene: Lynnae_32 Start: 28455, Stop: 28676, Start Num: 198
Candidate Starts for Lynnae_32:
(Start: 179 @28410 has 71 MA's), (Start: 198 @28455 has 8 MA's), (222, 28506), (264, 28572), (299, 28644), (302, 28665),

Gene: MAckerman_30 Start: 27690, Stop: 27959, Start Num: 179
Candidate Starts for MAckerman_30:
(Start: 179 @27690 has 71 MA's), (Start: 198 @27735 has 8 MA's), (257, 27843),

Gene: MISSy_36 Start: 32648, Stop: 32893, Start Num: 180
Candidate Starts for MISSy_36:
(Start: 180 @32648 has 162 MA's), (Start: 205 @32705 has 3 MA's), (221, 32738), (223, 32744), (254, 32798), (262, 32810),

Gene: MPhalcon_36 Start: 32641, Stop: 32886, Start Num: 180
Candidate Starts for MPhalcon_36:
(Start: 180 @32641 has 162 MA's), (Start: 205 @32698 has 3 MA's), (221, 32731), (223, 32737), (254, 32791), (262, 32803),

Gene: MUWow_74 Start: 40107, Stop: 40418, Start Num: 138
Candidate Starts for MUWow_74:
(Start: 138 @40107 has 50 MA's), (203, 40200), (Start: 205 @40203 has 3 MA's), (239, 40284), (257, 40320),

Gene: MaCh_58 Start: 37765, Stop: 37493, Start Num: 162
Candidate Starts for MaCh_58:
(Start: 162 @37765 has 35 MA's), (Start: 178 @37756 has 4 MA's), (244, 37615),

Gene: MaGuCo_34 Start: 25599, Stop: 25841, Start Num: 154
Candidate Starts for MaGuCo_34:
(Start: 154 @25599 has 2 MA's), (Start: 202 @25650 has 2 MA's), (259, 25758),

Gene: Mabel_57 Start: 37367, Stop: 37095, Start Num: 162
Candidate Starts for Mabel_57:
(Start: 162 @37367 has 35 MA's), (Start: 178 @37358 has 4 MA's), (262, 37187),

Gene: Mabodamaca_42 Start: 28268, Stop: 28534, Start Num: 165
Candidate Starts for Mabodamaca_42:
(Start: 165 @28268 has 11 MA's), (199, 28322), (249, 28436),

Gene: MadamMonkfish_37 Start: 32553, Stop: 32798, Start Num: 180
Candidate Starts for MadamMonkfish_37:
(Start: 180 @32553 has 162 MA's), (Start: 205 @32610 has 3 MA's), (221, 32643), (223, 32649), (254, 32703), (262, 32715),

Gene: MajorMajor_57 Start: 37421, Stop: 37149, Start Num: 162
Candidate Starts for MajorMajor_57:
(Start: 162 @37421 has 35 MA's), (Start: 187 @37400 has 14 MA's), (Start: 189 @37394 has 10 MA's), (244, 37271), (251, 37259),

Gene: Makima_4 Start: 2462, Stop: 2728, Start Num: 172
Candidate Starts for Makima_4:
(Start: 172 @2462 has 33 MA's), (251, 2612), (285, 2687),

Gene: Malec_58 Start: 38998, Stop: 38726, Start Num: 161
Candidate Starts for Malec_58:
(Start: 161 @38998 has 101 MA's), (Start: 189 @38971 has 10 MA's), (201, 38935), (221, 38893), (244, 38848), (262, 38818), (267, 38809),

Gene: Maminiaina_57 Start: 38227, Stop: 37955, Start Num: 161
Candidate Starts for Maminiaina_57:
(Start: 161 @38227 has 101 MA's), (Start: 178 @38218 has 4 MA's), (Start: 202 @38161 has 2 MA's), (220, 38125), (262, 38047),

Gene: Manda_38 Start: 33620, Stop: 33865, Start Num: 180
Candidate Starts for Manda_38:
(Start: 180 @33620 has 162 MA's), (Start: 205 @33677 has 3 MA's), (221, 33710), (223, 33716), (254, 33770), (262, 33782),

Gene: Mapleville_69 Start: 38294, Stop: 38617, Start Num: 138
Candidate Starts for Mapleville_69:
(Start: 138 @38294 has 50 MA's), (255, 38513),

Gene: MargaretKali_53 Start: 31679, Stop: 31957, Start Num: 181
Candidate Starts for MargaretKali_53:
(Start: 181 @31679 has 12 MA's), (199, 31727), (251, 31841),

Gene: Marleymoo_53 Start: 43853, Stop: 44062, Start Num: 196
Candidate Starts for Marleymoo_53:
(Start: 189 @43826 has 10 MA's), (Start: 196 @43853 has 1 MA's), (221, 43907), (222, 43910), (257, 43967), (277, 44003), (299, 44051),

Gene: Marshmallow_37 Start: 33133, Stop: 33378, Start Num: 180
Candidate Starts for Marshmallow_37:
(Start: 180 @33133 has 162 MA's), (Start: 205 @33190 has 3 MA's), (221, 33223), (223, 33229), (254, 33283), (262, 33295),

Gene: MaryV_53 Start: 39346, Stop: 39594, Start Num: 182
Candidate Starts for MaryV_53:
(Start: 182 @39346 has 43 MA's), (218, 39427), (235, 39475), (259, 39508), (262, 39511), (264, 39514), (278, 39547), (295, 39583),

Gene: MaterMagnus_73 Start: 39613, Stop: 39930, Start Num: 138
Candidate Starts for MaterMagnus_73:
(Start: 138 @39613 has 50 MA's), (223, 39769), (233, 39799), (244, 39808), (255, 39826),

Gene: Maureen_36 Start: 26752, Stop: 26994, Start Num: 154
Candidate Starts for Maureen_36:
(Start: 154 @26752 has 2 MA's), (Start: 202 @26803 has 2 MA's), (259, 26911),

Gene: Maxxinista_38 Start: 32602, Stop: 32847, Start Num: 180
Candidate Starts for Maxxinista_38:
(Start: 180 @32602 has 162 MA's), (Start: 205 @32659 has 3 MA's), (221, 32692), (223, 32698), (254, 32752), (262, 32764),

Gene: Mazun_9 Start: 6131, Stop: 5775, Start Num: 175
Candidate Starts for Mazun_9:
(Start: 175 @6131 has 54 MA's), (Start: 195 @6092 has 2 MA's), (201, 6077), (228, 5981), (280, 5864), (297, 5825),

Gene: Mbo4_60 Start: 42893, Stop: 43174, Start Num: 183
Candidate Starts for Mbo4_60:
(6, 42125), (Start: 183 @42893 has 16 MA's), (Start: 195 @42926 has 2 MA's),

Gene: MegTheThird_57 Start: 38030, Stop: 37758, Start Num: 161
Candidate Starts for MegTheThird_57:
(Start: 161 @38030 has 101 MA's), (Start: 178 @38021 has 4 MA's), (220, 37928), (244, 37880), (255, 37862),

Gene: MiaZeal_51 Start: 40623, Stop: 40862, Start Num: 189
Candidate Starts for MiaZeal_51:
(Start: 189 @40623 has 10 MA's), (Start: 196 @40650 has 1 MA's), (221, 40704), (222, 40707), (257, 40764), (277, 40800),

Gene: MiamiPanther_9 Start: 6219, Stop: 5899, Start Num: 175
Candidate Starts for MiamiPanther_9:
(Start: 175 @6219 has 54 MA's), (199, 6168), (201, 6165), (261, 6000), (297, 5931),

Gene: Michkear_34 Start: 25612, Stop: 25884, Start Num: 161
Candidate Starts for Michkear_34:
(Start: 161 @25612 has 101 MA's), (261, 25789), (286, 25837),

Gene: MidnightRain_78 Start: 40135, Stop: 40518, Start Num: 90
Candidate Starts for MidnightRain_78:

(Start: 90 @40135 has 6 MA's), (Start: 138 @40195 has 50 MA's), (207, 40321), (255, 40414),

Gene: Miko_55 Start: 38578, Stop: 38306, Start Num: 161
Candidate Starts for Miko_55:
(60, 38779), (Start: 161 @38578 has 101 MA's), (Start: 189 @38551 has 10 MA's), (244, 38428), (262, 38398),

Gene: Miley16_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for Miley16_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Milomuff_36 Start: 25291, Stop: 25521, Start Num: 184
Candidate Starts for Milomuff_36:
(102, 25171), (118, 25195), (125, 25204), (127, 25207), (129, 25210), (Start: 176 @25282 has 12 MA's), (Start: 184 @25291 has 74 MA's),

Gene: Mindy_37 Start: 32913, Stop: 33158, Start Num: 180
Candidate Starts for Mindy_37:
(Start: 180 @32913 has 162 MA's), (Start: 205 @32970 has 3 MA's), (221, 33003), (223, 33009), (251, 33057), (254, 33063), (262, 33075),

Gene: MinecraftSteve_64 Start: 37679, Stop: 37410, Start Num: 172
Candidate Starts for MinecraftSteve_64:
(Start: 172 @37679 has 33 MA's), (262, 37502),

Gene: Minerva_58 Start: 45548, Stop: 45796, Start Num: 180
Candidate Starts for Minerva_58:
(Start: 180 @45548 has 162 MA's), (245, 45680),

Gene: MiniLon_31 Start: 28548, Stop: 28814, Start Num: 179
Candidate Starts for MiniLon_31:
(Start: 179 @28548 has 71 MA's), (Start: 189 @28560 has 10 MA's), (Start: 198 @28593 has 8 MA's),

Gene: MiniMac_31 Start: 28549, Stop: 28815, Start Num: 179
Candidate Starts for MiniMac_31:
(Start: 179 @28549 has 71 MA's), (Start: 189 @28561 has 10 MA's), (Start: 198 @28594 has 8 MA's),

Gene: MiniMommy_40 Start: 26464, Stop: 26751, Start Num: 161
Candidate Starts for MiniMommy_40:
(Start: 161 @26464 has 101 MA's), (261, 26656),

Gene: Minispark_57 Start: 37983, Stop: 37711, Start Num: 161
Candidate Starts for Minispark_57:
(Start: 161 @37983 has 101 MA's), (Start: 178 @37974 has 4 MA's), (Start: 202 @37917 has 2 MA's), (220, 37881), (244, 37833),

Gene: Miniwave_37 Start: 33332, Stop: 33577, Start Num: 180
Candidate Starts for Miniwave_37:
(Start: 180 @33332 has 162 MA's), (Start: 205 @33389 has 3 MA's), (221, 33422), (223, 33428), (254, 33482), (262, 33494),

Gene: Mireles_3 Start: 895, Stop: 1137, Start Num: 172

Candidate Starts for Mireles_3:
(Start: 172 @895 has 33 MA's),

Gene: Misfit_37 Start: 33222, Stop: 33467, Start Num: 180
Candidate Starts for Misfit_37:
(Start: 180 @33222 has 162 MA's), (Start: 205 @33279 has 3 MA's), (221, 33312), (223, 33318), (254, 33372), (262, 33384),

Gene: Miskis_120 Start: 71060, Stop: 71353, Start Num: 170
Candidate Starts for Miskis_120:
(Start: 170 @71060 has 12 MA's), (Start: 195 @71108 has 2 MA's), (255, 71237),

Gene: MissAmericana_7 Start: 5312, Stop: 5025, Start Num: 181
Candidate Starts for MissAmericana_7:
(Start: 181 @5312 has 12 MA's), (246, 5159), (289, 5072),

Gene: MissSwiss_32 Start: 23153, Stop: 23398, Start Num: 169
Candidate Starts for MissSwiss_32:
(Start: 169 @23153 has 2 MA's), (199, 23198), (259, 23312),

Gene: MissWhite_57 Start: 36925, Stop: 36653, Start Num: 161
Candidate Starts for MissWhite_57:
(Start: 161 @36925 has 101 MA's), (Start: 178 @36916 has 4 MA's), (Start: 189 @36898 has 10 MA's), (262, 36745),

Gene: Mistmere_28 Start: 8094, Stop: 8348, Start Num: 181
Candidate Starts for Mistmere_28:
(Start: 181 @8094 has 12 MA's), (199, 8142),

Gene: MkaliMitinis3_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for MkaliMitinis3_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Moldemort_38 Start: 32877, Stop: 33122, Start Num: 180
Candidate Starts for Moldemort_38:
(Start: 180 @32877 has 162 MA's), (Start: 205 @32934 has 3 MA's), (221, 32967), (223, 32973), (254, 33027), (262, 33039),

Gene: Moleficent_9 Start: 6125, Stop: 5769, Start Num: 175
Candidate Starts for Moleficent_9:
(Start: 175 @6125 has 54 MA's), (Start: 195 @6086 has 2 MA's), (201, 6071), (228, 5975), (276, 5867), (280, 5858), (297, 5819),

Gene: Molivier_32 Start: 28464, Stop: 28685, Start Num: 198
Candidate Starts for Molivier_32:
(Start: 179 @28419 has 71 MA's), (Start: 198 @28464 has 8 MA's), (222, 28515), (264, 28581), (299, 28653), (302, 28674),

Gene: MollyToe_37 Start: 33306, Stop: 33551, Start Num: 180
Candidate Starts for MollyToe_37:
(Start: 180 @33306 has 162 MA's), (Start: 205 @33363 has 3 MA's), (221, 33396), (223, 33402), (254, 33456), (262, 33468),

Gene: Mollymur_85 Start: 58104, Stop: 57838, Start Num: 163
Candidate Starts for Mollymur_85:
(Start: 163 @58104 has 36 MA's), (250, 57939), (256, 57924), (284, 57873),

Gene: MontyDev_40 Start: 36039, Stop: 36284, Start Num: 174
Candidate Starts for MontyDev_40:
(145, 35997), (Start: 174 @36039 has 10 MA's), (Start: 189 @36060 has 10 MA's), (Start: 195 @36081 has 2 MA's), (Start: 205 @36105 has 3 MA's), (207, 36108), (260, 36207), (263, 36210), (265, 36213), (294, 36264),

Gene: Moostard_31 Start: 28832, Stop: 29053, Start Num: 198
Candidate Starts for Moostard_31:
(Start: 179 @28787 has 71 MA's), (Start: 189 @28799 has 10 MA's), (Start: 198 @28832 has 8 MA's),

Gene: Morrill_9 Start: 6080, Stop: 5724, Start Num: 175
Candidate Starts for Morrill_9:
(Start: 175 @6080 has 54 MA's), (Start: 195 @6041 has 2 MA's), (201, 6026), (280, 5813), (297, 5774),

Gene: Mosby_36 Start: 32639, Stop: 32884, Start Num: 180
Candidate Starts for Mosby_36:
(Start: 180 @32639 has 162 MA's), (Start: 205 @32696 has 3 MA's), (221, 32729), (223, 32735), (251, 32783), (254, 32789), (262, 32801),

Gene: Moss_31 Start: 22585, Stop: 22851, Start Num: 173
Candidate Starts for Moss_31:
(Start: 173 @22585 has 9 MA's), (Start: 185 @22600 has 20 MA's), (208, 22663), (272, 22783),

Gene: MsGreen_31 Start: 28784, Stop: 29050, Start Num: 179
Candidate Starts for MsGreen_31:
(Start: 179 @28784 has 71 MA's), (Start: 189 @28796 has 10 MA's), (Start: 198 @28829 has 8 MA's),

Gene: MsUbiquitous_37 Start: 25564, Stop: 25806, Start Num: 184
Candidate Starts for MsUbiquitous_37:
(Start: 184 @25564 has 74 MA's), (289, 25798),

Gene: Mudpuppy_32 Start: 24535, Stop: 24777, Start Num: 164
Candidate Starts for Mudpuppy_32:
(43, 24277), (55, 24313), (Start: 164 @24535 has 41 MA's), (259, 24694),

Gene: Mulciber_57 Start: 37323, Stop: 37051, Start Num: 162
Candidate Starts for Mulciber_57:
(Start: 162 @37323 has 35 MA's), (Start: 178 @37314 has 4 MA's), (262, 37143),

Gene: Munch_58 Start: 37786, Stop: 37514, Start Num: 162
Candidate Starts for Munch_58:
(Start: 162 @37786 has 35 MA's), (Start: 178 @37777 has 4 MA's), (262, 37606),

Gene: Murica_36 Start: 33119, Stop: 33364, Start Num: 180
Candidate Starts for Murica_36:
(Start: 180 @33119 has 162 MA's), (Start: 205 @33176 has 3 MA's), (221, 33209), (223, 33215), (254, 33269), (262, 33281),

Gene: Murphy_38 Start: 33114, Stop: 33359, Start Num: 180
Candidate Starts for Murphy_38:
(Start: 180 @33114 has 162 MA's), (Start: 205 @33171 has 3 MA's), (221, 33204), (223, 33210), (254, 33264), (262, 33276),

Gene: MurphyJoseph_70 Start: 37081, Stop: 37437, Start Num: 90
Candidate Starts for MurphyJoseph_70:
(Start: 90 @37081 has 6 MA's), (Start: 138 @37141 has 50 MA's), (264, 37348),

Gene: Musetta_35 Start: 10358, Stop: 10612, Start Num: 182
Candidate Starts for Musetta_35:
(Start: 162 @10343 has 35 MA's), (Start: 182 @10358 has 43 MA's), (199, 10403), (255, 10526),

Gene: Music_39 Start: 33258, Stop: 33593, Start Num: 156
Candidate Starts for Music_39:
(Start: 156 @33258 has 2 MA's), (Start: 168 @33273 has 7 MA's), (256, 33486), (257, 33489), (294, 33564),

Gene: Myrale_37 Start: 32998, Stop: 33243, Start Num: 180
Candidate Starts for Myrale_37:
(Start: 180 @32998 has 162 MA's), (Start: 205 @33055 has 3 MA's), (221, 33088), (223, 33094), (254, 33148), (262, 33160),

Gene: Myrna_77 Start: 30774, Stop: 31019, Start Num: 182
Candidate Starts for Myrna_77:
(Start: 182 @30774 has 43 MA's), (233, 30900),

Gene: Myxus_58 Start: 38225, Stop: 37953, Start Num: 161
Candidate Starts for Myxus_58:
(Start: 161 @38225 has 101 MA's), (Start: 178 @38216 has 4 MA's), (Start: 202 @38159 has 2 MA's), (220, 38123), (233, 38084), (255, 38057), (262, 38045),

Gene: Naiad_45 Start: 34311, Stop: 34015, Start Num: 164
Candidate Starts for Naiad_45:
(Start: 164 @34311 has 41 MA's), (Start: 183 @34293 has 16 MA's), (188, 34287), (235, 34170), (259, 34137), (264, 34131), (294, 34071), (303, 34023),

Gene: Naji_60 Start: 38269, Stop: 37997, Start Num: 161
Candidate Starts for Naji_60:
(Start: 161 @38269 has 101 MA's), (Start: 178 @38260 has 4 MA's), (220, 38167), (262, 38089), (291, 38035),

Gene: Nala_37 Start: 33153, Stop: 33398, Start Num: 180
Candidate Starts for Nala_37:
(Start: 180 @33153 has 162 MA's), (Start: 205 @33210 has 3 MA's), (221, 33243), (223, 33249), (254, 33303), (262, 33315),

Gene: Nancinator_46 Start: 34231, Stop: 33935, Start Num: 164
Candidate Starts for Nancinator_46:
(Start: 164 @34231 has 41 MA's), (Start: 183 @34213 has 16 MA's), (188, 34207), (235, 34090), (259, 34057), (264, 34051), (294, 33991), (303, 33943),

Gene: Natosaleda_45 Start: 34230, Stop: 33934, Start Num: 164

Candidate Starts for Natosaleda_45:
(Start: 164 @34230 has 41 MA's), (Start: 183 @34212 has 16 MA's), (188, 34206), (235, 34089), (259, 34056), (264, 34050), (294, 33990), (303, 33942),

Gene: Nebulosus_62 Start: 37439, Stop: 37170, Start Num: 172
Candidate Starts for Nebulosus_62:
(16, 37883), (19, 37859), (27, 37781), (Start: 172 @37439 has 33 MA's), (262, 37262), (281, 37223),

Gene: Necrophoxinus_37 Start: 10946, Stop: 11200, Start Num: 182
Candidate Starts for Necrophoxinus_37:
(Start: 162 @10931 has 35 MA's), (Start: 182 @10946 has 43 MA's), (199, 10991), (223, 11042), (231, 11060), (238, 11078),

Gene: Nedarya_60 Start: 37419, Stop: 37150, Start Num: 171
Candidate Starts for Nedarya_60:
(19, 37842), (Start: 171 @37419 has 1 MA's), (Start: 178 @37410 has 4 MA's), (Start: 189 @37392 has 10 MA's), (262, 37239),

Gene: Nekros_50 Start: 43030, Stop: 43269, Start Num: 189
Candidate Starts for Nekros_50:
(Start: 189 @43030 has 10 MA's), (Start: 196 @43057 has 1 MA's), (221, 43111), (222, 43114), (257, 43171), (277, 43207),

Gene: NelitzaMV_37 Start: 33203, Stop: 33448, Start Num: 180
Candidate Starts for NelitzaMV_37:
(Start: 180 @33203 has 162 MA's), (Start: 205 @33260 has 3 MA's), (221, 33293), (223, 33299), (254, 33353), (262, 33365),

Gene: Netyap_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for Netyap_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Neuvillette_3 Start: 977, Stop: 1246, Start Num: 176
Candidate Starts for Neuvillette_3:
(Start: 176 @977 has 12 MA's),

Gene: NewKitty_76 Start: 40595, Stop: 40897, Start Num: 138
Candidate Starts for NewKitty_76:
(Start: 138 @40595 has 50 MA's), (199, 40685),

Gene: Nibley_46 Start: 39034, Stop: 39279, Start Num: 180
Candidate Starts for Nibley_46:
(Start: 180 @39034 has 162 MA's), (207, 39097), (221, 39127), (222, 39130), (259, 39190), (262, 39193), (264, 39196),

Gene: Nicholas_31 Start: 28784, Stop: 29050, Start Num: 179
Candidate Starts for Nicholas_31:
(Start: 179 @28784 has 71 MA's), (Start: 189 @28796 has 10 MA's), (Start: 198 @28829 has 8 MA's),

Gene: Nicholasp3_32 Start: 28424, Stop: 28690, Start Num: 179
Candidate Starts for Nicholasp3_32:

(Start: 179 @28424 has 71 MA's), (Start: 198 @28469 has 8 MA's), (222, 28520), (264, 28586), (299, 28658), (302, 28679),

Gene: Nicky22_37 Start: 25941, Stop: 26183, Start Num: 184
Candidate Starts for Nicky22_37:
(Start: 184 @25941 has 74 MA's), (289, 26175),

Gene: NihilNomen_51 Start: 44218, Stop: 44466, Start Num: 180
Candidate Starts for NihilNomen_51:
(Start: 180 @44218 has 162 MA's), (245, 44350),

Gene: Nilo_41 Start: 36395, Stop: 36640, Start Num: 174
Candidate Starts for Nilo_41:
(145, 36353), (Start: 174 @36395 has 10 MA's), (Start: 189 @36416 has 10 MA's), (Start: 195 @36437 has 2 MA's), (207, 36464), (260, 36563), (263, 36566), (265, 36569), (294, 36620),

Gene: Nimrod_37 Start: 33377, Stop: 33622, Start Num: 180
Candidate Starts for Nimrod_37:
(Start: 180 @33377 has 162 MA's), (Start: 205 @33434 has 3 MA's), (221, 33467), (223, 33473), (254, 33527), (262, 33539),

Gene: Niobe_34 Start: 26608, Stop: 26865, Start Num: 167
Candidate Starts for Niobe_34:
(43, 26371), (45, 26380), (Start: 167 @26608 has 6 MA's), (199, 26656), (261, 26773),

Gene: Nitro_33 Start: 25923, Stop: 26186, Start Num: 163
Candidate Starts for Nitro_33:
(Start: 163 @25923 has 36 MA's), (259, 26103),

Gene: NoSleep_38 Start: 32874, Stop: 33119, Start Num: 180
Candidate Starts for NoSleep_38:
(Start: 180 @32874 has 162 MA's), (Start: 205 @32931 has 3 MA's), (221, 32964), (223, 32970), (254, 33024), (262, 33036),

Gene: NonchalantPear_37 Start: 32827, Stop: 33072, Start Num: 180
Candidate Starts for NonchalantPear_37:
(Start: 180 @32827 has 162 MA's), (Start: 205 @32884 has 3 MA's), (221, 32917), (223, 32923), (254, 32977), (262, 32989),

Gene: Norvs_124 Start: 71047, Stop: 71340, Start Num: 170
Candidate Starts for Norvs_124:
(Start: 170 @71047 has 12 MA's), (Start: 195 @71095 has 2 MA's), (255, 71224),

Gene: NothingSpecial_56 Start: 38807, Stop: 38535, Start Num: 161
Candidate Starts for NothingSpecial_56:
(Start: 161 @38807 has 101 MA's), (Start: 187 @38786 has 14 MA's), (Start: 189 @38780 has 10 MA's), (201, 38744), (221, 38702), (224, 38693), (244, 38657), (262, 38627), (267, 38618), (270, 38615),

Gene: Nyilah_77 Start: 38886, Stop: 39203, Start Num: 138
Candidate Starts for Nyilah_77:
(Start: 138 @38886 has 50 MA's), (Start: 183 @38946 has 16 MA's), (228, 39060),

Gene: Oatly_9 Start: 6310, Stop: 5987, Start Num: 175
Candidate Starts for Oatly_9:
(72, 6478), (82, 6460), (98, 6427), (Start: 175 @6310 has 54 MA's), (199, 6259), (204, 6244), (216, 6196), (262, 6088), (291, 6040), (297, 6022),

Gene: ObiToo_36 Start: 25276, Stop: 25518, Start Num: 164
Candidate Starts for ObiToo_36:
(43, 25018), (55, 25054), (Start: 164 @25276 has 41 MA's),

Gene: Odette_52 Start: 43439, Stop: 43684, Start Num: 180
Candidate Starts for Odette_52:
(Start: 180 @43439 has 162 MA's), (207, 43502), (221, 43532), (222, 43535), (259, 43595), (262, 43598), (264, 43601),

Gene: Odin_56 Start: 37328, Stop: 37056, Start Num: 137
Candidate Starts for Odin_56:
(Start: 137 @37328 has 12 MA's), (Start: 189 @37301 has 10 MA's), (244, 37178), (251, 37166),

Gene: OhShagHennessy_30 Start: 27655, Stop: 27924, Start Num: 179
Candidate Starts for OhShagHennessy_30:
(Start: 179 @27655 has 71 MA's), (Start: 198 @27700 has 8 MA's), (257, 27808),

Gene: OlinDD_28 Start: 9180, Stop: 9434, Start Num: 182
Candidate Starts for OlinDD_28:
(144, 9132), (166, 9165), (Start: 182 @9180 has 43 MA's), (199, 9225), (218, 9261), (255, 9348),

Gene: Olliecat_33 Start: 24245, Stop: 24484, Start Num: 184
Candidate Starts for Olliecat_33:
(9, 23624), (35, 23930), (Start: 184 @24245 has 74 MA's),

Gene: Omega_56 Start: 45262, Stop: 45501, Start Num: 189
Candidate Starts for Omega_56:
(Start: 189 @45262 has 10 MA's), (Start: 196 @45289 has 1 MA's), (221, 45343), (222, 45346), (257, 45403), (277, 45439),

Gene: OneUp_110 Start: 69312, Stop: 69614, Start Num: 162
Candidate Starts for OneUp_110:
(Start: 162 @69312 has 35 MA's), (Start: 172 @69324 has 33 MA's), (253, 69492),

Gene: Onglai_56 Start: 36566, Stop: 36294, Start Num: 161
Candidate Starts for Onglai_56:
(Start: 161 @36566 has 101 MA's), (Start: 178 @36557 has 4 MA's), (Start: 202 @36500 has 2 MA's), (220, 36464), (233, 36425), (255, 36398), (262, 36386),

Gene: Onyinye_53 Start: 39601, Stop: 39356, Start Num: 180
Candidate Starts for Onyinye_53:
(Start: 180 @39601 has 162 MA's), (207, 39541), (220, 39514), (233, 39475), (254, 39451), (257, 39445), (262, 39439), (274, 39415),

Gene: Oofda_65 Start: 37642, Stop: 37373, Start Num: 172
Candidate Starts for Oofda_65:
(Start: 172 @37642 has 33 MA's), (262, 37465),

Gene: Optimus_57 Start: 45133, Stop: 45381, Start Num: 180
Candidate Starts for Optimus_57:
(Start: 180 @45133 has 162 MA's), (245, 45265),

Gene: Orange_57 Start: 37335, Stop: 37063, Start Num: 162
Candidate Starts for Orange_57:
(Start: 162 @37335 has 35 MA's), (Start: 178 @37326 has 4 MA's), (262, 37155),

Gene: Origami_39 Start: 26498, Stop: 26785, Start Num: 161
Candidate Starts for Origami_39:
(Start: 161 @26498 has 101 MA's),

Gene: OrionPax_38 Start: 32880, Stop: 33125, Start Num: 180
Candidate Starts for OrionPax_38:
(Start: 180 @32880 has 162 MA's), (Start: 205 @32937 has 3 MA's), (221, 32970), (223, 32976), (254, 33030), (262, 33042),

Gene: Orkz_49 Start: 32713, Stop: 32997, Start Num: 183
Candidate Starts for Orkz_49:
(43, 32434), (Start: 168 @32695 has 7 MA's), (Start: 183 @32713 has 16 MA's), (215, 32821), (273, 32926), (287, 32956),

Gene: OverPar_32 Start: 28454, Stop: 28720, Start Num: 179
Candidate Starts for OverPar_32:
(Start: 179 @28454 has 71 MA's), (Start: 198 @28499 has 8 MA's), (222, 28550), (264, 28616), (299, 28688), (302, 28709),

Gene: PYPDinur_30 Start: 27624, Stop: 27842, Start Num: 198
Candidate Starts for PYPDinur_30:
(Start: 179 @27579 has 71 MA's), (Start: 198 @27624 has 8 MA's), (262, 27738),

Gene: Pabst_9 Start: 6171, Stop: 5848, Start Num: 175
Candidate Starts for Pabst_9:
(140, 6219), (Start: 175 @6171 has 54 MA's), (Start: 195 @6132 has 2 MA's), (199, 6120), (262, 5949), (279, 5916), (297, 5883), (301, 5865),

Gene: PackMan_57 Start: 38225, Stop: 37953, Start Num: 161
Candidate Starts for PackMan_57:
(Start: 161 @38225 has 101 MA's), (Start: 178 @38216 has 4 MA's), (Start: 202 @38159 has 2 MA's), (220, 38123), (233, 38084), (255, 38057), (262, 38045),

Gene: PaddyBaddy_38 Start: 32890, Stop: 33135, Start Num: 180
Candidate Starts for PaddyBaddy_38:
(Start: 180 @32890 has 162 MA's), (Start: 205 @32947 has 3 MA's), (221, 32980), (223, 32986), (254, 33040), (262, 33052),

Gene: PainterBoy_59 Start: 38298, Stop: 38026, Start Num: 162
Candidate Starts for PainterBoy_59:
(122, 38367), (Start: 162 @38298 has 35 MA's), (Start: 178 @38289 has 4 MA's), (220, 38196), (244, 38148), (255, 38130), (262, 38118),

Gene: Palpatine_37 Start: 33149, Stop: 33394, Start Num: 180
Candidate Starts for Palpatine_37:

(Start: 180 @33149 has 162 MA's), (Start: 205 @33206 has 3 MA's), (221, 33239), (223, 33245), (254, 33299), (262, 33311),

Gene: Panchaali_99 Start: 83918, Stop: 84178, Start Num: 182
Candidate Starts for Panchaali_99:
(Start: 182 @83918 has 43 MA's), (289, 84137),

Gene: PandaPo_32 Start: 23156, Stop: 23401, Start Num: 169
Candidate Starts for PandaPo_32:
(Start: 169 @23156 has 2 MA's), (199, 23201), (259, 23315),

Gene: Paperbeatsrock_39 Start: 34115, Stop: 34360, Start Num: 180
Candidate Starts for Paperbeatsrock_39:
(Start: 180 @34115 has 162 MA's), (Start: 205 @34172 has 3 MA's), (221, 34205), (223, 34211), (254, 34265), (262, 34277),

Gene: Papyrus_40 Start: 36054, Stop: 36299, Start Num: 174
Candidate Starts for Papyrus_40:
(145, 36012), (Start: 174 @36054 has 10 MA's), (Start: 189 @36075 has 10 MA's), (Start: 195 @36096 has 2 MA's), (Start: 205 @36120 has 3 MA's), (207, 36123), (260, 36222), (263, 36225), (265, 36228),

Gene: Partridge_45 Start: 34587, Stop: 34291, Start Num: 164
Candidate Starts for Partridge_45:
(Start: 164 @34587 has 41 MA's), (188, 34563), (233, 34449), (235, 34446), (259, 34413), (264, 34407), (294, 34347), (303, 34299),

Gene: PastaFagioli_35 Start: 25432, Stop: 25674, Start Num: 184
Candidate Starts for PastaFagioli_35:
(Start: 184 @25432 has 74 MA's), (243, 25573),

Gene: Pat3_36 Start: 31861, Stop: 32106, Start Num: 180
Candidate Starts for Pat3_36:
(Start: 180 @31861 has 162 MA's), (Start: 205 @31918 has 3 MA's), (221, 31951), (223, 31957), (251, 32005), (254, 32011), (262, 32023),

Gene: PauloDiaboli_20 Start: 7036, Stop: 7266, Start Num: 187
Candidate Starts for PauloDiaboli_20:
(Start: 187 @7036 has 14 MA's), (210, 7108), (230, 7150), (282, 7237), (292, 7255),

Gene: PauloDiaboli_218 Start: 116530, Stop: 116276, Start Num: 183
Candidate Starts for PauloDiaboli_218:
(Start: 183 @116530 has 16 MA's), (236, 116416), (252, 116389),

Gene: PauloDiaboli_375 Start: 183665, Stop: 183895, Start Num: 187
Candidate Starts for PauloDiaboli_375:
(Start: 187 @183665 has 14 MA's), (210, 183737), (230, 183779), (282, 183866), (292, 183884),

Gene: Pavlo_29 Start: 9536, Stop: 9784, Start Num: 182
Candidate Starts for Pavlo_29:
(Start: 150 @9497 has 1 MA's), (Start: 182 @9536 has 43 MA's), (199, 9581), (218, 9617), (283, 9764),

Gene: Pecas_36 Start: 25476, Stop: 25718, Start Num: 184
Candidate Starts for Pecas_36:

(Start: 184 @25476 has 74 MA's), (289, 25710),

Gene: Percival_43 Start: 28266, Stop: 28523, Start Num: 165
Candidate Starts for Percival_43:
(83, 28155), (85, 28158), (Start: 165 @28266 has 11 MA's), (199, 28320), (256, 28446), (264, 28458), (274, 28470),

Gene: Persistence_66 Start: 36801, Stop: 37118, Start Num: 138
Candidate Starts for Persistence_66:
(33, 36561), (Start: 138 @36801 has 50 MA's), (233, 36987), (255, 37014),

Gene: Petersenfast_57 Start: 37334, Stop: 37062, Start Num: 162
Candidate Starts for Petersenfast_57:
(Start: 162 @37334 has 35 MA's), (Start: 178 @37325 has 4 MA's), (262, 37154),

Gene: Petra64142_39 Start: 33595, Stop: 33840, Start Num: 180
Candidate Starts for Petra64142_39:
(Start: 180 @33595 has 162 MA's), (Start: 205 @33652 has 3 MA's), (221, 33685), (223, 33691), (254, 33745), (262, 33757),

Gene: PetriParty_57 Start: 35402, Stop: 35725, Start Num: 138
Candidate Starts for PetriParty_57:
(99, 35351), (Start: 138 @35402 has 50 MA's), (Start: 195 @35483 has 2 MA's), (203, 35504), (285, 35672),

Gene: Ph8s_59 Start: 37685, Stop: 37413, Start Num: 137
Candidate Starts for Ph8s_59:
(Start: 137 @37685 has 12 MA's), (201, 37622), (223, 37574), (244, 37535), (251, 37523), (262, 37505),

Gene: Phabba_83 Start: 30849, Stop: 31100, Start Num: 182
Candidate Starts for Phabba_83:
(Start: 182 @30849 has 43 MA's), (200, 30894), (233, 30975),

Gene: Phaeder_58 Start: 38225, Stop: 37953, Start Num: 161
Candidate Starts for Phaeder_58:
(Start: 161 @38225 has 101 MA's), (Start: 178 @38216 has 4 MA's), (Start: 202 @38159 has 2 MA's), (220, 38123), (233, 38084), (255, 38057), (262, 38045),

Gene: PhailMary_45 Start: 34620, Stop: 34324, Start Num: 164
Candidate Starts for PhailMary_45:
(Start: 164 @34620 has 41 MA's), (Start: 183 @34602 has 16 MA's), (188, 34596), (207, 34548), (235, 34479), (259, 34446), (264, 34440), (294, 34380), (303, 34332),

Gene: Phaja_37 Start: 33368, Stop: 33556, Start Num: 205
Candidate Starts for Phaja_37:
(Start: 180 @33311 has 162 MA's), (Start: 205 @33368 has 3 MA's), (221, 33401), (223, 33407), (254, 33461), (262, 33473),

Gene: Pharaoh_53 Start: 38271, Stop: 37999, Start Num: 161
Candidate Starts for Pharaoh_53:
(60, 38472), (Start: 161 @38271 has 101 MA's), (Start: 178 @38262 has 4 MA's), (Start: 187 @38250 has 14 MA's), (201, 38208), (220, 38169), (244, 38121), (255, 38103), (262, 38091), (267, 38082),

Gene: Pharky_9 Start: 6092, Stop: 5736, Start Num: 175
Candidate Starts for Pharky_9:
(Start: 175 @6092 has 54 MA's), (Start: 195 @6053 has 2 MA's), (201, 6038), (225, 5951), (228, 5942), (276, 5834), (280, 5825), (297, 5786),

Gene: Pharsalus_38 Start: 33915, Stop: 34160, Start Num: 180
Candidate Starts for Pharsalus_38:
(Start: 180 @33915 has 162 MA's), (Start: 205 @33972 has 3 MA's), (221, 34005), (223, 34011), (254, 34065), (262, 34077),

Gene: PhatBacter_37 Start: 33163, Stop: 33408, Start Num: 180
Candidate Starts for PhatBacter_37:
(Start: 180 @33163 has 162 MA's), (Start: 205 @33220 has 3 MA's), (221, 33253), (223, 33259), (254, 33313), (262, 33325),

Gene: Phaux_36 Start: 33161, Stop: 33406, Start Num: 180
Candidate Starts for Phaux_36:
(Start: 180 @33161 has 162 MA's), (Start: 205 @33218 has 3 MA's), (221, 33251), (223, 33257), (254, 33311), (262, 33323),

Gene: Phedro_9 Start: 6092, Stop: 5736, Start Num: 175
Candidate Starts for Phedro_9:
(Start: 175 @6092 has 54 MA's), (Start: 195 @6053 has 2 MA's), (201, 6038), (225, 5951), (228, 5942), (276, 5834), (280, 5825), (297, 5786),

Gene: PhigPhack_37 Start: 25302, Stop: 25544, Start Num: 184
Candidate Starts for PhigPhack_37:
(Start: 184 @25302 has 74 MA's), (243, 25443),

Gene: PhillyPhilly_30 Start: 9402, Stop: 9689, Start Num: 150
Candidate Starts for PhillyPhilly_30:
(Start: 150 @9402 has 1 MA's), (Start: 182 @9441 has 43 MA's), (199, 9486), (218, 9522), (283, 9669),

Gene: PhinkBoden_125 Start: 71915, Stop: 72205, Start Num: 172
Candidate Starts for PhinkBoden_125:
(105, 71807), (115, 71822), (140, 71867), (Start: 172 @71915 has 33 MA's), (Start: 195 @71960 has 2 MA's), (255, 72089),

Gene: Phisb_37 Start: 25535, Stop: 25777, Start Num: 184
Candidate Starts for Phisb_37:
(98, 25406), (111, 25427), (119, 25439), (121, 25442), (127, 25451), (129, 25454), (Start: 176 @25526 has 12 MA's), (Start: 184 @25535 has 74 MA's), (243, 25676),

Gene: Phives_35 Start: 26643, Stop: 26906, Start Num: 163
Candidate Starts for Phives_35:
(43, 26406), (49, 26415), (Start: 163 @26643 has 36 MA's),

Gene: Phlei_47 Start: 37907, Stop: 37635, Start Num: 162
Candidate Starts for Phlei_47:
(Start: 162 @37907 has 35 MA's), (Start: 178 @37898 has 4 MA's), (223, 37796), (244, 37757), (246, 37754), (291, 37673),

Gene: Phoebus_51 Start: 44419, Stop: 44667, Start Num: 180
Candidate Starts for Phoebus_51:
(Start: 180 @44419 has 162 MA's), (245, 44551),

Gene: Phogo_9 Start: 6365, Stop: 6045, Start Num: 175
Candidate Starts for Phogo_9:
(114, 6455), (Start: 175 @6365 has 54 MA's), (199, 6314), (204, 6299), (216, 6251), (279, 6110),

Gene: Phonnegut_58 Start: 38322, Stop: 38050, Start Num: 161
Candidate Starts for Phonnegut_58:
(Start: 161 @38322 has 101 MA's), (Start: 178 @38313 has 4 MA's), (Start: 202 @38256 has 2 MA's), (220, 38220), (233, 38181), (255, 38154), (262, 38142),

Gene: Phractured_9 Start: 6092, Stop: 5736, Start Num: 175
Candidate Starts for Phractured_9:
(Start: 175 @6092 has 54 MA's), (Start: 195 @6053 has 2 MA's), (201, 6038), (225, 5951), (228, 5942), (276, 5834), (280, 5825), (297, 5786),

Gene: Phrank15_75 Start: 38696, Stop: 39013, Start Num: 138
Candidate Starts for Phrank15_75:
(Start: 138 @38696 has 50 MA's), (188, 38765), (221, 38846), (264, 38924),

Gene: Phrankenstein_46 Start: 34244, Stop: 33948, Start Num: 164
Candidate Starts for Phrankenstein_46:
(Start: 164 @34244 has 41 MA's), (Start: 183 @34226 has 16 MA's), (188, 34220), (235, 34103), (259, 34070), (264, 34064), (294, 34004), (303, 33956),

Gene: PhriedRice_9 Start: 6092, Stop: 5736, Start Num: 175
Candidate Starts for PhriedRice_9:
(Start: 175 @6092 has 54 MA's), (Start: 195 @6053 has 2 MA's), (201, 6038), (228, 5942), (276, 5834), (280, 5825), (297, 5786),

Gene: Phrux_37 Start: 32876, Stop: 33121, Start Num: 180
Candidate Starts for Phrux_37:
(Start: 180 @32876 has 162 MA's), (Start: 205 @32933 has 3 MA's), (221, 32966), (223, 32972), (254, 33026), (262, 33038),

Gene: Pigu_53 Start: 30796, Stop: 31095, Start Num: 138
Candidate Starts for Pigu_53:
(Start: 138 @30796 has 50 MA's), (199, 30886),

Gene: PineapplePluto_10 Start: 6454, Stop: 6131, Start Num: 175
Candidate Starts for PineapplePluto_10:
(72, 6622), (98, 6571), (Start: 175 @6454 has 54 MA's), (199, 6403), (204, 6388), (216, 6340), (262, 6232), (291, 6184), (297, 6166),

Gene: Pioneer_58 Start: 38322, Stop: 38050, Start Num: 161
Candidate Starts for Pioneer_58:
(Start: 161 @38322 has 101 MA's), (Start: 178 @38313 has 4 MA's), (Start: 202 @38256 has 2 MA's), (220, 38220), (233, 38181), (255, 38154), (262, 38142),

Gene: Pioneer3_28 Start: 9179, Stop: 9433, Start Num: 182
Candidate Starts for Pioneer3_28:

(144, 9131), (166, 9164), (Start: 182 @9179 has 43 MA's), (199, 9224), (218, 9260), (255, 9347),

Gene: Pippin15_52 Start: 34099, Stop: 34347, Start Num: 181
Candidate Starts for Pippin15_52:
(Start: 181 @34099 has 12 MA's), (Start: 189 @34114 has 10 MA's), (223, 34198), (257, 34258), (259, 34261), (264, 34267), (296, 34336),

Gene: Pitbull_58 Start: 33370, Stop: 33633, Start Num: 178
Candidate Starts for Pitbull_58:
(133, 33298), (Start: 178 @33370 has 4 MA's), (254, 33526), (257, 33532), (264, 33541), (291, 33598),

Gene: Pixelle_33 Start: 26398, Stop: 26640, Start Num: 164
Candidate Starts for Pixelle_33:
(Start: 164 @26398 has 41 MA's),

Gene: Platte_28 Start: 8949, Stop: 9203, Start Num: 182
Candidate Starts for Platte_28:
(144, 8901), (166, 8934), (Start: 182 @8949 has 43 MA's), (199, 8994), (218, 9030), (255, 9117),

Gene: Policronamos_37 Start: 33161, Stop: 33406, Start Num: 180
Candidate Starts for Policronamos_37:
(Start: 180 @33161 has 162 MA's), (Start: 205 @33218 has 3 MA's), (221, 33251), (223, 33257), (254, 33311), (262, 33323),

Gene: Pomar16_60 Start: 38309, Stop: 38037, Start Num: 161
Candidate Starts for Pomar16_60:
(Start: 161 @38309 has 101 MA's), (Start: 178 @38300 has 4 MA's), (220, 38207), (262, 38129), (291, 38075),

Gene: PondAmelia_38 Start: 26411, Stop: 26644, Start Num: 184
Candidate Starts for PondAmelia_38:
(127, 26327), (Start: 176 @26402 has 12 MA's), (Start: 184 @26411 has 74 MA's), (289, 26636),

Gene: Poochiewood_30 Start: 27690, Stop: 27959, Start Num: 179
Candidate Starts for Poochiewood_30:
(Start: 179 @27690 has 71 MA's), (Start: 198 @27735 has 8 MA's),

Gene: Porcelain_50 Start: 40623, Stop: 40862, Start Num: 189
Candidate Starts for Porcelain_50:
(Start: 189 @40623 has 10 MA's), (Start: 196 @40650 has 1 MA's), (221, 40704), (222, 40707), (257, 40764), (277, 40800),

Gene: Porky_37 Start: 32972, Stop: 33217, Start Num: 180
Candidate Starts for Porky_37:
(Start: 180 @32972 has 162 MA's), (Start: 205 @33029 has 3 MA's), (221, 33062), (223, 33068), (254, 33122), (262, 33134),

Gene: Pound_54 Start: 45996, Stop: 46244, Start Num: 180
Candidate Starts for Pound_54:
(Start: 180 @45996 has 162 MA's), (245, 46128),

Gene: Power_57 Start: 38477, Stop: 38205, Start Num: 161
Candidate Starts for Power_57:

(Start: 161 @38477 has 101 MA's), (Start: 178 @38468 has 4 MA's), (Start: 187 @38456 has 14 MA's), (Start: 189 @38450 has 10 MA's), (244, 38327),

Gene: Powerpuff_35 Start: 25868, Stop: 26110, Start Num: 163
Candidate Starts for Powerpuff_35:
(Start: 163 @25868 has 36 MA's), (259, 26027),

Gene: Priya_58 Start: 38292, Stop: 38020, Start Num: 161
Candidate Starts for Priya_58:
(Start: 161 @38292 has 101 MA's), (Start: 178 @38283 has 4 MA's), (Start: 202 @38226 has 2 MA's), (220, 38190), (233, 38151), (255, 38124), (262, 38112),

Gene: Ptowny_38 Start: 32517, Stop: 32762, Start Num: 180
Candidate Starts for Ptowny_38:
(Start: 180 @32517 has 162 MA's), (Start: 205 @32574 has 3 MA's), (221, 32607), (223, 32613), (254, 32667), (262, 32679),

Gene: Pumpernickel_201 Start: 115898, Stop: 115641, Start Num: 183
Candidate Starts for Pumpernickel_201:
(Start: 183 @115898 has 16 MA's), (252, 115754), (259, 115739),

Gene: Pumpkin_39 Start: 33212, Stop: 33457, Start Num: 180
Candidate Starts for Pumpkin_39:
(Start: 180 @33212 has 162 MA's), (Start: 205 @33269 has 3 MA's), (221, 33302), (223, 33308), (254, 33362), (262, 33374),

Gene: Pumpkins_33 Start: 25496, Stop: 25762, Start Num: 163
Candidate Starts for Pumpkins_33:
(Start: 163 @25496 has 36 MA's), (259, 25679),

Gene: Pupper_77 Start: 28936, Stop: 29202, Start Num: 175
Candidate Starts for Pupper_77:
(Start: 175 @28936 has 54 MA's), (Start: 198 @28984 has 8 MA's), (257, 29104), (291, 29164),

Gene: QMacho_38 Start: 25959, Stop: 26201, Start Num: 184
Candidate Starts for QMacho_38:
(Start: 184 @25959 has 74 MA's), (289, 26193),

Gene: Qobbit_58 Start: 38254, Stop: 37982, Start Num: 161
Candidate Starts for Qobbit_58:
(Start: 161 @38254 has 101 MA's), (Start: 178 @38245 has 4 MA's), (Start: 202 @38188 has 2 MA's), (220, 38152), (233, 38113), (255, 38086), (262, 38074),

Gene: Quallification_38 Start: 33341, Stop: 33586, Start Num: 180
Candidate Starts for Quallification_38:
(Start: 180 @33341 has 162 MA's), (Start: 205 @33398 has 3 MA's), (221, 33431), (223, 33437), (254, 33491), (262, 33503),

Gene: Quby_30 Start: 27518, Stop: 27736, Start Num: 198
Candidate Starts for Quby_30:
(Start: 179 @27473 has 71 MA's), (Start: 198 @27518 has 8 MA's), (221, 27566), (262, 27632),

Gene: QueenB2_57 Start: 38455, Stop: 38183, Start Num: 161

Candidate Starts for QueenB2_57:
(Start: 161 @38455 has 101 MA's), (Start: 178 @38446 has 4 MA's), (Start: 187 @38434 has 14 MA's), (Start: 189 @38428 has 10 MA's), (244, 38305), (262, 38275),

Gene: QueenBeesly_58 Start: 38424, Stop: 38152, Start Num: 161
Candidate Starts for QueenBeesly_58:
(Start: 161 @38424 has 101 MA's), (Start: 178 @38415 has 4 MA's), (Start: 187 @38403 has 14 MA's), (Start: 189 @38397 has 10 MA's), (244, 38274),

Gene: Quenya_35 Start: 25660, Stop: 25890, Start Num: 184
Candidate Starts for Quenya_35:
(22, 25243), (36, 25348), (57, 25423), (62, 25447), (76, 25486), (89, 25513), (91, 25516), (92, 25519), (127, 25576), (129, 25579), (133, 25585), (Start: 176 @25651 has 12 MA's), (Start: 184 @25660 has 74 MA's), (221, 25747), (243, 25801), (274, 25852), (289, 25882),

Gene: Quokka_56 Start: 37421, Stop: 37149, Start Num: 162
Candidate Starts for Quokka_56:
(Start: 162 @37421 has 35 MA's), (Start: 187 @37400 has 14 MA's), (Start: 189 @37394 has 10 MA's), (244, 37271), (251, 37259),

Gene: RER2_39 Start: 31170, Stop: 30874, Start Num: 164
Candidate Starts for RER2_39:
(Start: 164 @31170 has 41 MA's), (Start: 183 @31152 has 16 MA's), (188, 31146), (235, 31029), (259, 30996), (264, 30990), (294, 30930), (303, 30882),

Gene: RGL3_40 Start: 32103, Stop: 31804, Start Num: 164
Candidate Starts for RGL3_40:
(77, 32253), (Start: 164 @32103 has 41 MA's), (Start: 183 @32085 has 16 MA's), (Start: 187 @32082 has 14 MA's), (233, 31965), (257, 31932), (259, 31929),

Gene: Rachaly_57 Start: 38723, Stop: 38451, Start Num: 161
Candidate Starts for Rachaly_57:
(Start: 161 @38723 has 101 MA's), (Start: 189 @38696 has 10 MA's), (244, 38573), (262, 38543),

Gene: RadFad_77 Start: 39406, Stop: 39702, Start Num: 138
Candidate Starts for RadFad_77:
(Start: 90 @39346 has 6 MA's), (Start: 138 @39406 has 50 MA's),

Gene: Rahalelujah_58 Start: 37998, Stop: 37726, Start Num: 161
Candidate Starts for Rahalelujah_58:
(Start: 161 @37998 has 101 MA's), (Start: 178 @37989 has 4 MA's), (Start: 202 @37932 has 2 MA's), (220, 37896), (244, 37848),

Gene: Rakim_38 Start: 33241, Stop: 33486, Start Num: 180
Candidate Starts for Rakim_38:
(Start: 180 @33241 has 162 MA's), (Start: 205 @33298 has 3 MA's), (221, 33331), (223, 33337), (254, 33391), (262, 33403),

Gene: Raphaella_74 Start: 38671, Stop: 38994, Start Num: 138
Candidate Starts for Raphaella_74:
(81, 38596), (Start: 138 @38671 has 50 MA's), (255, 38890),

Gene: Raqqa_69 Start: 36817, Stop: 37113, Start Num: 138

Candidate Starts for Raqqa_69:
(Start: 90 @36757 has 6 MA's), (Start: 138 @36817 has 50 MA's),

Gene: Rasputin_46 Start: 34268, Stop: 33972, Start Num: 164
Candidate Starts for Rasputin_46:
(Start: 164 @34268 has 41 MA's), (Start: 183 @34250 has 16 MA's), (188, 34244), (235, 34127), (259, 34094), (264, 34088), (294, 34028), (303, 33980),

Gene: Ravana_66 Start: 38767, Stop: 38498, Start Num: 172
Candidate Starts for Ravana_66:
(Start: 172 @38767 has 33 MA's), (262, 38590),

Gene: ReMo_62 Start: 37440, Stop: 37171, Start Num: 172
Candidate Starts for ReMo_62:
(16, 37884), (19, 37860), (27, 37782), (Start: 172 @37440 has 33 MA's), (262, 37263),

Gene: Rearden_46 Start: 40216, Stop: 40461, Start Num: 180
Candidate Starts for Rearden_46:
(Start: 180 @40216 has 162 MA's), (Start: 189 @40228 has 10 MA's), (245, 40348),

Gene: Red305_31 Start: 28796, Stop: 29050, Start Num: 189
Candidate Starts for Red305_31:
(Start: 179 @28784 has 71 MA's), (Start: 189 @28796 has 10 MA's), (Start: 198 @28829 has 8 MA's),

Gene: Redno2_50 Start: 41183, Stop: 41428, Start Num: 180
Candidate Starts for Redno2_50:
(Start: 180 @41183 has 162 MA's), (207, 41246), (221, 41276), (222, 41279), (259, 41339), (262, 41342), (264, 41345),

Gene: Reedo_32 Start: 23099, Stop: 23341, Start Num: 169
Candidate Starts for Reedo_32:
(29, 22766), (51, 22862), (54, 22871), (75, 22946), (Start: 169 @23099 has 2 MA's),

Gene: Refuge_56 Start: 39539, Stop: 39267, Start Num: 161
Candidate Starts for Refuge_56:
(142, 39569), (Start: 161 @39539 has 101 MA's), (220, 39437), (244, 39389), (255, 39371), (262, 39359),

Gene: ReginaGlobina_107 Start: 86858, Stop: 87121, Start Num: 182
Candidate Starts for ReginaGlobina_107:
(Start: 182 @86858 has 43 MA's), (275, 87047),

Gene: Remus_64 Start: 37446, Stop: 37177, Start Num: 172
Candidate Starts for Remus_64:
(16, 37890), (19, 37866), (27, 37788), (Start: 172 @37446 has 33 MA's), (262, 37269),

Gene: Retro23_59 Start: 38669, Stop: 38397, Start Num: 161
Candidate Starts for Retro23_59:
(Start: 161 @38669 has 101 MA's), (Start: 178 @38660 has 4 MA's), (Start: 187 @38648 has 14 MA's), (Start: 189 @38642 has 10 MA's), (244, 38519), (262, 38489),

Gene: RexFury_45 Start: 34329, Stop: 34033, Start Num: 164
Candidate Starts for RexFury_45:

(Start: 164 @34329 has 41 MA's), (Start: 183 @34311 has 16 MA's), (188, 34305), (235, 34188), (259, 34155), (264, 34149), (294, 34089), (303, 34041),

Gene: Rhodalysa_46 Start: 34298, Stop: 34002, Start Num: 164
Candidate Starts for Rhodalysa_46:
(Start: 164 @34298 has 41 MA's), (Start: 183 @34280 has 16 MA's), (188, 34274), (235, 34157), (259, 34124), (264, 34118), (294, 34058), (303, 34010),

Gene: Richie_76 Start: 40479, Stop: 40859, Start Num: 90
Candidate Starts for Richie_76:
(Start: 90 @40479 has 6 MA's), (Start: 138 @40542 has 50 MA's), (199, 40647), (221, 40692), (255, 40755),

Gene: RicoCaldo_9 Start: 6122, Stop: 5766, Start Num: 175
Candidate Starts for RicoCaldo_9:
(Start: 175 @6122 has 54 MA's), (Start: 195 @6083 has 2 MA's), (201, 6068), (228, 5972), (246, 5930), (276, 5864), (280, 5855), (297, 5816),

Gene: Rimmer_36 Start: 32701, Stop: 32946, Start Num: 180
Candidate Starts for Rimmer_36:
(Start: 180 @32701 has 162 MA's), (Start: 205 @32758 has 3 MA's), (221, 32791), (223, 32797), (254, 32851), (262, 32863),

Gene: Riparian_40 Start: 35856, Stop: 36101, Start Num: 174
Candidate Starts for Riparian_40:
(145, 35814), (Start: 174 @35856 has 10 MA's), (Start: 189 @35877 has 10 MA's), (Start: 195 @35898 has 2 MA's), (Start: 205 @35922 has 3 MA's), (207, 35925), (260, 36024), (263, 36027), (265, 36030),

Gene: RiverMonster_37 Start: 32890, Stop: 33135, Start Num: 180
Candidate Starts for RiverMonster_37:
(Start: 180 @32890 has 162 MA's), (Start: 205 @32947 has 3 MA's), (221, 32980), (223, 32986), (254, 33040), (262, 33052),

Gene: Roberts_3 Start: 977, Stop: 1246, Start Num: 176
Candidate Starts for Roberts_3:
(Start: 176 @977 has 12 MA's),

Gene: RockScotty_31 Start: 22561, Stop: 22827, Start Num: 173
Candidate Starts for RockScotty_31:
(Start: 173 @22561 has 9 MA's), (Start: 185 @22576 has 20 MA's), (208, 22639), (213, 22657), (272, 22759),

Gene: Rollins_33 Start: 23463, Stop: 23702, Start Num: 176
Candidate Starts for Rollins_33:
(52, 23220), (61, 23250), (Start: 176 @23463 has 12 MA's), (Start: 184 @23472 has 74 MA's), (221, 23559), (274, 23664), (289, 23694),

Gene: Roman_30 Start: 9436, Stop: 9684, Start Num: 182
Candidate Starts for Roman_30:
(Start: 150 @9397 has 1 MA's), (Start: 182 @9436 has 43 MA's), (199, 9481), (218, 9517), (283, 9664),

Gene: Rona_34 Start: 25980, Stop: 26210, Start Num: 184
Candidate Starts for Rona_34:

(21, 25560), (28, 25623), (31, 25641), (34, 25662), (38, 25671), (42, 25695), (47, 25713), (50, 25719), (58, 25746), (59, 25749), (63, 25770), (65, 25773), (79, 25812), (86, 25827), (93, 25842), (98, 25851), (103, 25860), (108, 25866), (114, 25875), (121, 25887), (125, 25893), (Start: 176 @25971 has 12 MA's), (Start: 184 @25980 has 74 MA's), (210, 26052), (221, 26067), (274, 26172), (289, 26202),

Gene: Ronaldo_118 Start: 57046, Stop: 57285, Start Num: 187
Candidate Starts for Ronaldo_118:
(Start: 187 @57046 has 14 MA's), (242, 57169), (280, 57241), (281, 57244),

Gene: Rooter_57 Start: 32237, Stop: 32536, Start Num: 138
Candidate Starts for Rooter_57:
(Start: 138 @32237 has 50 MA's), (199, 32327),

Gene: Rope_40 Start: 36036, Stop: 36281, Start Num: 174
Candidate Starts for Rope_40:
(145, 35994), (Start: 174 @36036 has 10 MA's), (Start: 189 @36057 has 10 MA's), (Start: 195 @36078 has 2 MA's), (Start: 205 @36102 has 3 MA's), (207, 36105), (260, 36204), (263, 36207), (265, 36210),

Gene: Rosalind_62 Start: 37598, Stop: 37329, Start Num: 172
Candidate Starts for Rosalind_62:
(16, 38042), (19, 38018), (27, 37940), (Start: 172 @37598 has 33 MA's), (262, 37421),

Gene: Rose5_30 Start: 27690, Stop: 27959, Start Num: 179
Candidate Starts for Rose5_30:
(Start: 179 @27690 has 71 MA's), (Start: 198 @27735 has 8 MA's), (257, 27843),

Gene: RoseMarie_41 Start: 35246, Stop: 35443, Start Num: 207
Candidate Starts for RoseMarie_41:
(100, 35054), (Start: 169 @35165 has 2 MA's), (Start: 183 @35183 has 16 MA's), (199, 35231), (207, 35246), (221, 35276), (257, 35342), (262, 35351),

Gene: Rossetti_32 Start: 28739, Stop: 28960, Start Num: 198
Candidate Starts for Rossetti_32:
(Start: 179 @28694 has 71 MA's), (Start: 198 @28739 has 8 MA's), (264, 28856), (302, 28949),

Gene: Rumpelstiltskin_32 Start: 28735, Stop: 28956, Start Num: 198
Candidate Starts for Rumpelstiltskin_32:
(Start: 179 @28690 has 71 MA's), (Start: 198 @28735 has 8 MA's), (222, 28786), (264, 28852), (299, 28924), (302, 28945),

Gene: RunningBrook_36 Start: 10938, Stop: 11192, Start Num: 182
Candidate Starts for RunningBrook_36:
(Start: 162 @10923 has 35 MA's), (Start: 182 @10938 has 43 MA's), (199, 10983), (223, 11034), (231, 11052), (238, 11070),

Gene: RyeScarlet_59 Start: 38297, Stop: 38025, Start Num: 161
Candidate Starts for RyeScarlet_59:
(Start: 161 @38297 has 101 MA's), (Start: 178 @38288 has 4 MA's), (Start: 202 @38231 has 2 MA's), (220, 38195), (233, 38156), (255, 38129), (262, 38117),

Gene: SCentae_76 Start: 28691, Stop: 28957, Start Num: 175
Candidate Starts for SCentae_76:
(Start: 175 @28691 has 54 MA's), (Start: 198 @28739 has 8 MA's), (257, 28859), (291, 28919),

Gene: Sachima_55 Start: 38207, Stop: 37935, Start Num: 161
Candidate Starts for Sachima_55:
(Start: 161 @38207 has 101 MA's), (Start: 178 @38198 has 4 MA's), (Start: 202 @38141 has 2 MA's), (220, 38105), (233, 38066), (255, 38039), (262, 38027),

Gene: Saints25_38 Start: 32793, Stop: 33038, Start Num: 180
Candidate Starts for Saints25_38:
(Start: 180 @32793 has 162 MA's), (Start: 205 @32850 has 3 MA's), (221, 32883), (223, 32889), (254, 32943), (262, 32955),

Gene: Sakai_71 Start: 38572, Stop: 38889, Start Num: 138
Candidate Starts for Sakai_71:
(Start: 138 @38572 has 50 MA's), (223, 38728), (233, 38758), (244, 38767), (255, 38785),

Gene: Salvatore2000_9 Start: 6219, Stop: 5899, Start Num: 175
Candidate Starts for Salvatore2000_9:
(Start: 175 @6219 has 54 MA's), (Start: 195 @6180 has 2 MA's), (199, 6168), (201, 6165), (261, 6000), (297, 5931),

Gene: Salz_56 Start: 37305, Stop: 37033, Start Num: 162
Candidate Starts for Salz_56:
(Start: 162 @37305 has 35 MA's), (Start: 178 @37296 has 4 MA's), (262, 37125),

Gene: Samty_31 Start: 28787, Stop: 29053, Start Num: 179
Candidate Starts for Samty_31:
(Start: 179 @28787 has 71 MA's), (Start: 189 @28799 has 10 MA's), (Start: 198 @28832 has 8 MA's),

Gene: SanaSana_39 Start: 27081, Stop: 27314, Start Num: 184
Candidate Starts for SanaSana_39:
(97, 26952), (98, 26955), (110, 26973), (118, 26985), (119, 26988), (127, 26997), (Start: 176 @27072 has 12 MA's), (Start: 184 @27081 has 74 MA's), (240, 27216), (278, 27282),

Gene: SansAfet_37 Start: 25401, Stop: 25631, Start Num: 184
Candidate Starts for SansAfet_37:
(Start: 184 @25401 has 74 MA's),

Gene: SarBear_36 Start: 25256, Stop: 25498, Start Num: 184
Candidate Starts for SarBear_36:
(Start: 184 @25256 has 74 MA's), (289, 25490),

Gene: Saradis_31 Start: 9499, Stop: 9747, Start Num: 182
Candidate Starts for Saradis_31:
(Start: 150 @9460 has 1 MA's), (Start: 182 @9499 has 43 MA's), (199, 9544), (218, 9580), (283, 9727),

Gene: Sarge_51 Start: 30199, Stop: 30498, Start Num: 138
Candidate Starts for Sarge_51:
(Start: 138 @30199 has 50 MA's), (199, 30289),

Gene: Sarshaun_32 Start: 28500, Stop: 28721, Start Num: 198
Candidate Starts for Sarshaun_32:
(Start: 179 @28455 has 71 MA's), (Start: 198 @28500 has 8 MA's), (222, 28551), (264, 28617), (299, 28689), (302, 28710),

Gene: Sashimi_70 Start: 38667, Stop: 38984, Start Num: 138
Candidate Starts for Sashimi_70:
(30, 38412), (37, 38442), (Start: 90 @38604 has 6 MA's), (Start: 138 @38667 has 50 MA's), (255, 38880), (264, 38895),

Gene: Saskia_58 Start: 37333, Stop: 37061, Start Num: 162
Candidate Starts for Saskia_58:
(Start: 162 @37333 has 35 MA's), (Start: 178 @37324 has 4 MA's), (262, 37153),

Gene: Sassay_36 Start: 32639, Stop: 32884, Start Num: 180
Candidate Starts for Sassay_36:
(Start: 180 @32639 has 162 MA's), (Start: 205 @32696 has 3 MA's), (221, 32729), (223, 32735), (254, 32789), (262, 32801),

Gene: Satrap_74 Start: 39319, Stop: 39636, Start Num: 138
Candidate Starts for Satrap_74:
(Start: 138 @39319 has 50 MA's), (Start: 183 @39379 has 16 MA's), (285, 39589),

Gene: Schaffner_33 Start: 25723, Stop: 25989, Start Num: 163
Candidate Starts for Schaffner_33:
(43, 25465), (55, 25501), (Start: 163 @25723 has 36 MA's), (259, 25906),

Gene: Schatzie_49 Start: 43187, Stop: 43432, Start Num: 180
Candidate Starts for Schatzie_49:
(Start: 180 @43187 has 162 MA's), (207, 43250), (221, 43280), (222, 43283), (259, 43343), (262, 43346), (264, 43349),

Gene: Scherzo_58 Start: 38511, Stop: 38239, Start Num: 161
Candidate Starts for Scherzo_58:
(Start: 161 @38511 has 101 MA's), (Start: 178 @38502 has 4 MA's), (Start: 202 @38445 has 2 MA's), (220, 38409), (233, 38370), (255, 38343), (262, 38331),

Gene: Schmidt_57 Start: 36601, Stop: 36840, Start Num: 185
Candidate Starts for Schmidt_57:
(105, 36481), (Start: 185 @36601 has 20 MA's), (199, 36643), (207, 36658), (219, 36682), (223, 36694), (255, 36763), (259, 36772), (295, 36832),

Gene: ScoobyDoobyDoo_73 Start: 26882, Stop: 27106, Start Num: 181
Candidate Starts for ScoobyDoobyDoo_73:
(Start: 181 @26882 has 12 MA's), (203, 26933), (235, 27005), (251, 27023), (255, 27029), (257, 27035), (278, 27071),

Gene: Seahorse_78 Start: 41611, Stop: 41991, Start Num: 90
Candidate Starts for Seahorse_78:
(Start: 90 @41611 has 6 MA's), (Start: 138 @41674 has 50 MA's), (199, 41779), (221, 41824), (255, 41887),

Gene: SemperFi_59 Start: 38692, Stop: 38420, Start Num: 161
Candidate Starts for SemperFi_59:
(Start: 161 @38692 has 101 MA's), (Start: 178 @38683 has 4 MA's), (Start: 187 @38671 has 14 MA's), (Start: 189 @38665 has 10 MA's), (244, 38542),

Gene: Send513_40 Start: 36392, Stop: 36637, Start Num: 174
Candidate Starts for Send513_40:
(145, 36350), (Start: 174 @36392 has 10 MA's), (Start: 189 @36413 has 10 MA's), (Start: 195 @36434 has 2 MA's), (207, 36461), (260, 36560), (263, 36563), (265, 36566), (294, 36617),

Gene: Serenabean_52 Start: 34263, Stop: 34496, Start Num: 181
Candidate Starts for Serenabean_52:
(Start: 181 @34263 has 12 MA's), (207, 34326), (241, 34398),

Gene: Serenity_58 Start: 37628, Stop: 37356, Start Num: 162
Candidate Starts for Serenity_58:
(94, 37700), (101, 37688), (Start: 162 @37628 has 35 MA's), (Start: 187 @37607 has 14 MA's), (Start: 189 @37601 has 10 MA's), (244, 37478), (251, 37466),

Gene: Shaboozey_44 Start: 38020, Stop: 38232, Start Num: 196
Candidate Starts for Shaboozey_44:
(Start: 189 @37993 has 10 MA's), (Start: 196 @38020 has 1 MA's), (221, 38074), (222, 38077), (257, 38134), (277, 38170),

Gene: ShakeItOph_39 Start: 26463, Stop: 26750, Start Num: 161
Candidate Starts for ShakeItOph_39:
(Start: 161 @26463 has 101 MA's), (261, 26655),

Gene: Sham4_57 Start: 37333, Stop: 37061, Start Num: 162
Candidate Starts for Sham4_57:
(Start: 162 @37333 has 35 MA's), (Start: 178 @37324 has 4 MA's), (262, 37153),

Gene: ShamWow_37 Start: 33135, Stop: 33380, Start Num: 180
Candidate Starts for ShamWow_37:
(Start: 180 @33135 has 162 MA's), (Start: 205 @33192 has 3 MA's), (221, 33225), (223, 33231), (254, 33285), (262, 33297),

Gene: Sharkboy_35 Start: 26070, Stop: 26309, Start Num: 176
Candidate Starts for Sharkboy_35:
(21, 25659), (28, 25722), (31, 25740), (34, 25761), (38, 25770), (42, 25794), (47, 25812), (50, 25818), (58, 25845), (59, 25848), (63, 25869), (65, 25872), (72, 25899), (79, 25911), (86, 25926), (93, 25941), (98, 25950), (103, 25959), (108, 25965), (114, 25974), (121, 25986), (125, 25992), (Start: 176 @26070 has 12 MA's), (Start: 184 @26079 has 74 MA's), (210, 26151), (221, 26166), (243, 26220), (274, 26271), (289, 26301),

Gene: ShayRa_64 Start: 37627, Stop: 37358, Start Num: 172
Candidate Starts for ShayRa_64:
(16, 38071), (27, 37969), (Start: 172 @37627 has 33 MA's), (262, 37450),

Gene: Shayna_36 Start: 24764, Stop: 24994, Start Num: 184
Candidate Starts for Shayna_36:
(Start: 184 @24764 has 74 MA's), (201, 24809),

Gene: SheaKeira_56 Start: 37935, Stop: 37663, Start Num: 161
Candidate Starts for SheaKeira_56:
(Start: 161 @37935 has 101 MA's), (Start: 178 @37926 has 4 MA's), (Start: 187 @37914 has 14 MA's), (Start: 202 @37869 has 2 MA's), (220, 37833), (227, 37812), (244, 37785), (249, 37776), (257, 37761), (285, 37710), (296, 37689),

Gene: Sheng711_30 Start: 27624, Stop: 27842, Start Num: 198
Candidate Starts for Sheng711_30:
(Start: 179 @27579 has 71 MA's), (Start: 198 @27624 has 8 MA's), (262, 27738),

Gene: ShereKhan_39 Start: 34175, Stop: 34363, Start Num: 205
Candidate Starts for ShereKhan_39:
(Start: 180 @34118 has 162 MA's), (Start: 205 @34175 has 3 MA's), (221, 34208), (223, 34214), (254, 34268), (262, 34280),

Gene: Shoya_56 Start: 31813, Stop: 32112, Start Num: 138
Candidate Starts for Shoya_56:
(Start: 138 @31813 has 50 MA's), (199, 31903),

Gene: Shroomer_39 Start: 10466, Stop: 10720, Start Num: 182
Candidate Starts for Shroomer_39:
(41, 10181), (Start: 162 @10451 has 35 MA's), (Start: 182 @10466 has 43 MA's), (199, 10511), (243, 10610), (255, 10634),

Gene: Shukran_70 Start: 37615, Stop: 37932, Start Num: 138
Candidate Starts for Shukran_70:
(Start: 90 @37558 has 6 MA's), (Start: 138 @37615 has 50 MA's), (221, 37765), (259, 37837),

Gene: Shuman_46 Start: 34243, Stop: 33947, Start Num: 164
Candidate Starts for Shuman_46:
(Start: 164 @34243 has 41 MA's), (Start: 183 @34225 has 16 MA's), (188, 34219), (235, 34102), (259, 34069), (264, 34063), (294, 34003), (303, 33955),

Gene: Shweta_51 Start: 35498, Stop: 35743, Start Num: 182
Candidate Starts for Shweta_51:
(Start: 182 @35498 has 43 MA's), (188, 35510), (190, 35516), (211, 35582), (233, 35627), (259, 35657),

Gene: ShyRosie_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for ShyRosie_9:
(102, 6161), (Start: 175 @6089 has 54 MA's), (Start: 195 @6050 has 2 MA's), (215, 5978), (228, 5939), (298, 5798),

Gene: Silverleaf_30 Start: 27690, Stop: 27959, Start Num: 179
Candidate Starts for Silverleaf_30:
(Start: 179 @27690 has 71 MA's), (Start: 198 @27735 has 8 MA's), (257, 27843),

Gene: Simpliphy_38 Start: 32880, Stop: 33125, Start Num: 180
Candidate Starts for Simpliphy_38:
(Start: 180 @32880 has 162 MA's), (Start: 205 @32937 has 3 MA's), (221, 32970), (223, 32976), (254, 33030), (262, 33042),

Gene: Simpson_35 Start: 24755, Stop: 25021, Start Num: 163
Candidate Starts for Simpson_35:
(43, 24497), (Start: 163 @24755 has 36 MA's), (259, 24938),

Gene: SirBeanington_36 Start: 25577, Stop: 25819, Start Num: 184
Candidate Starts for SirBeanington_36:

(Start: 184 @25577 has 74 MA's), (289, 25811),

Gene: SirDuracell_36 Start: 31800, Stop: 32045, Start Num: 180
Candidate Starts for SirDuracell_36:
(Start: 180 @31800 has 162 MA's), (Start: 205 @31857 has 3 MA's), (221, 31890), (223, 31896), (251, 31944), (254, 31950), (262, 31962),

Gene: Skelbel_35 Start: 26608, Stop: 26865, Start Num: 167
Candidate Starts for Skelbel_35:
(43, 26371), (45, 26380), (Start: 167 @26608 has 6 MA's), (199, 26656), (261, 26773),

Gene: Skog_140 Start: 57999, Stop: 58271, Start Num: 175
Candidate Starts for Skog_140:
(Start: 175 @57999 has 54 MA's), (Start: 198 @58047 has 8 MA's), (210, 58080), (257, 58167),

Gene: Skylord_33 Start: 23403, Stop: 23633, Start Num: 184
Candidate Starts for Skylord_33:
(52, 23151), (61, 23181), (Start: 176 @23394 has 12 MA's), (Start: 184 @23403 has 74 MA's), (221, 23490), (274, 23595), (289, 23625),

Gene: Slay_37 Start: 25937, Stop: 26179, Start Num: 184
Candidate Starts for Slay_37:
(Start: 184 @25937 has 74 MA's), (289, 26171),

Gene: Smeagan_61 Start: 38985, Stop: 38713, Start Num: 161
Candidate Starts for Smeagan_61:
(Start: 161 @38985 has 101 MA's), (Start: 178 @38976 has 4 MA's), (Start: 187 @38964 has 14 MA's), (Start: 189 @38958 has 10 MA's), (244, 38835),

Gene: Smoothie_126 Start: 71628, Stop: 71921, Start Num: 170
Candidate Starts for Smoothie_126:
(Start: 170 @71628 has 12 MA's), (Start: 195 @71676 has 2 MA's), (255, 71805),

Gene: SnapTap_58 Start: 38503, Stop: 38231, Start Num: 161
Candidate Starts for SnapTap_58:
(Start: 161 @38503 has 101 MA's), (Start: 178 @38494 has 4 MA's), (Start: 187 @38482 has 14 MA's), (Start: 189 @38476 has 10 MA's), (244, 38353),

Gene: Snape_57 Start: 37325, Stop: 37053, Start Num: 162
Candidate Starts for Snape_57:
(Start: 162 @37325 has 35 MA's), (Start: 178 @37316 has 4 MA's), (262, 37145),

Gene: Snek_33 Start: 23631, Stop: 23897, Start Num: 163
Candidate Starts for Snek_33:
(51, 23421), (54, 23430), (Start: 163 @23631 has 36 MA's), (259, 23814),

Gene: Snenia_31 Start: 28785, Stop: 29051, Start Num: 179
Candidate Starts for Snenia_31:
(Start: 179 @28785 has 71 MA's), (Start: 189 @28797 has 10 MA's), (Start: 198 @28830 has 8 MA's),

Gene: SoJulia_33 Start: 28728, Stop: 28949, Start Num: 198
Candidate Starts for SoJulia_33:

(Start: 179 @28683 has 71 MA's), (Start: 198 @28728 has 8 MA's), (222, 28779), (264, 28845), (299, 28917), (302, 28938),

Gene: Soap141_32 Start: 28500, Stop: 28721, Start Num: 198
Candidate Starts for Soap141_32:
(Start: 179 @28455 has 71 MA's), (Start: 198 @28500 has 8 MA's), (222, 28551), (264, 28617), (299, 28689), (302, 28710),

Gene: Softsoap_36 Start: 25312, Stop: 25542, Start Num: 184
Candidate Starts for Softsoap_36:
(Start: 184 @25312 has 74 MA's),

Gene: SoilSleuth_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for SoilSleuth_9:
(102, 6161), (111, 6146), (Start: 175 @6089 has 54 MA's), (Start: 195 @6050 has 2 MA's), (215, 5978), (228, 5939), (298, 5798),

Gene: Solea_37 Start: 25291, Stop: 25521, Start Num: 184
Candidate Starts for Solea_37:
(102, 25171), (118, 25195), (125, 25204), (127, 25207), (129, 25210), (Start: 176 @25282 has 12 MA's), (Start: 184 @25291 has 74 MA's),

Gene: Solimine_31 Start: 9914, Stop: 10162, Start Num: 182
Candidate Starts for Solimine_31:
(Start: 150 @9875 has 1 MA's), (Start: 182 @9914 has 43 MA's), (199, 9959), (218, 9995), (283, 10142),

Gene: SonDevVon_80 Start: 39621, Stop: 39938, Start Num: 138
Candidate Starts for SonDevVon_80:
(Start: 138 @39621 has 50 MA's), (223, 39777), (233, 39807), (244, 39816), (255, 39834),

Gene: Soondubu_31 Start: 26525, Stop: 26788, Start Num: 183
Candidate Starts for Soondubu_31:
(Start: 183 @26525 has 16 MA's), (271, 26723), (285, 26756),

Gene: SophKB_37 Start: 33134, Stop: 33379, Start Num: 180
Candidate Starts for SophKB_37:
(Start: 180 @33134 has 162 MA's), (Start: 205 @33191 has 3 MA's), (221, 33224), (223, 33230), (254, 33284), (262, 33296),

Gene: Sorvannah_9 Start: 6219, Stop: 5899, Start Num: 175
Candidate Starts for Sorvannah_9:
(Start: 175 @6219 has 54 MA's), (Start: 195 @6180 has 2 MA's), (199, 6168), (201, 6165), (261, 6000), (297, 5931),

Gene: Sotrice96_37 Start: 33089, Stop: 33334, Start Num: 180
Candidate Starts for Sotrice96_37:
(Start: 180 @33089 has 162 MA's), (Start: 205 @33146 has 3 MA's), (221, 33179), (223, 33185), (254, 33239), (262, 33251),

Gene: Soups_64 Start: 37890, Stop: 37621, Start Num: 172
Candidate Starts for Soups_64:
(16, 38334), (27, 38232), (Start: 172 @37890 has 33 MA's), (262, 37713),

Gene: SpecialK_31 Start: 22493, Stop: 22759, Start Num: 173
Candidate Starts for SpecialK_31:
(Start: 173 @22493 has 9 MA's), (Start: 185 @22508 has 20 MA's), (208, 22571), (272, 22691),

Gene: SpeedDemon_860 Start: 59302, Stop: 59036, Start Num: 163
Candidate Starts for SpeedDemon_860:
(Start: 163 @59302 has 36 MA's), (194, 59254),

Gene: SpicyFrank_75 Start: 38962, Stop: 39276, Start Num: 138
Candidate Starts for SpicyFrank_75:
(Start: 138 @38962 has 50 MA's), (Start: 205 @39061 has 3 MA's), (257, 39178),

Gene: Splinter_63 Start: 40094, Stop: 40318, Start Num: 185
Candidate Starts for Splinter_63:
(Start: 185 @40094 has 20 MA's), (199, 40136), (221, 40181), (224, 40190), (255, 40241), (259, 40250),

Gene: Sporco_76 Start: 40357, Stop: 40674, Start Num: 138
Candidate Starts for Sporco_76:
(Start: 138 @40357 has 50 MA's), (223, 40513), (233, 40543), (244, 40552), (255, 40570),

Gene: Spouty_58 Start: 38291, Stop: 38019, Start Num: 161
Candidate Starts for Spouty_58:
(Start: 161 @38291 has 101 MA's), (Start: 178 @38282 has 4 MA's), (Start: 202 @38225 has 2 MA's), (220, 38189), (233, 38150), (255, 38123), (262, 38111),

Gene: Squint_50 Start: 40769, Stop: 40981, Start Num: 196
Candidate Starts for Squint_50:
(Start: 189 @40742 has 10 MA's), (Start: 196 @40769 has 1 MA's), (221, 40823), (222, 40826), (257, 40883), (277, 40919),

Gene: Squircle_33 Start: 24244, Stop: 24483, Start Num: 184
Candidate Starts for Squircle_33:
(9, 23623), (35, 23929), (Start: 184 @24244 has 74 MA's),

Gene: StCroix_45 Start: 34311, Stop: 34015, Start Num: 164
Candidate Starts for StCroix_45:
(Start: 164 @34311 has 41 MA's), (Start: 183 @34293 has 16 MA's), (188, 34287), (235, 34170), (259, 34137), (264, 34131), (294, 34071), (303, 34023),

Gene: StagePhright_9 Start: 6092, Stop: 5736, Start Num: 175
Candidate Starts for StagePhright_9:
(Start: 175 @6092 has 54 MA's), (Start: 195 @6053 has 2 MA's), (201, 6038), (225, 5951), (228, 5942), (276, 5834), (280, 5825), (297, 5786),

Gene: Stank_40 Start: 33641, Stop: 33886, Start Num: 180
Candidate Starts for Stank_40:
(Start: 180 @33641 has 162 MA's), (Start: 205 @33698 has 3 MA's), (221, 33731), (223, 33737), (254, 33791), (262, 33803),

Gene: StarStuff_60 Start: 38271, Stop: 37999, Start Num: 161
Candidate Starts for StarStuff_60:

(Start: 161 @38271 has 101 MA's), (Start: 178 @38262 has 4 MA's), (220, 38169), (262, 38091), (291, 38037),

Gene: Stark_38 Start: 32893, Stop: 33138, Start Num: 180
Candidate Starts for Stark_38:
(Start: 180 @32893 has 162 MA's), (Start: 205 @32950 has 3 MA's), (221, 32983), (223, 32989), (254, 33043), (262, 33055),

Gene: SteakFry_37 Start: 10186, Stop: 10440, Start Num: 182
Candidate Starts for SteakFry_37:
(Start: 162 @10171 has 35 MA's), (Start: 182 @10186 has 43 MA's), (199, 10231), (223, 10282), (231, 10300), (238, 10318),

Gene: Steamy_54 Start: 38003, Stop: 37731, Start Num: 161
Candidate Starts for Steamy_54:
(60, 38204), (Start: 161 @38003 has 101 MA's), (Start: 178 @37994 has 4 MA's), (Start: 189 @37976 has 10 MA's), (201, 37940), (220, 37901), (244, 37853), (255, 37835), (267, 37814), (270, 37811),

Gene: StellaBean_37 Start: 33134, Stop: 33379, Start Num: 180
Candidate Starts for StellaBean_37:
(Start: 180 @33134 has 162 MA's), (Start: 205 @33191 has 3 MA's), (221, 33224), (223, 33230), (254, 33284), (262, 33296),

Gene: Stellammi_36 Start: 29438, Stop: 29665, Start Num: 186
Candidate Starts for Stellammi_36:
(96, 29303), (120, 29342), (132, 29360), (141, 29381), (Start: 156 @29405 has 2 MA's), (Start: 165 @29417 has 11 MA's), (Start: 186 @29438 has 1 MA's), (207, 29495), (223, 29531), (259, 29591),

Gene: StevieWelch_35 Start: 10338, Stop: 10592, Start Num: 182
Candidate Starts for StevieWelch_35:
(Start: 162 @10323 has 35 MA's), (Start: 182 @10338 has 43 MA's), (199, 10383), (231, 10452), (238, 10470),

Gene: Stewart25555_99 Start: 83664, Stop: 83927, Start Num: 182
Candidate Starts for Stewart25555_99:
(Start: 182 @83664 has 43 MA's), (207, 83724), (275, 83853), (291, 83886),

Gene: StolenFromERC_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for StolenFromERC_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: Stoor_37 Start: 26750, Stop: 26983, Start Num: 184
Candidate Starts for Stoor_37:
(97, 26621), (98, 26624), (110, 26642), (119, 26657), (127, 26666), (Start: 176 @26741 has 12 MA's), (Start: 184 @26750 has 74 MA's),

Gene: StormChicken_37 Start: 33309, Stop: 33554, Start Num: 180
Candidate Starts for StormChicken_37:
(Start: 180 @33309 has 162 MA's), (Start: 205 @33366 has 3 MA's), (221, 33399), (223, 33405), (254, 33459), (262, 33471),

Gene: Stormbreaker_9 Start: 6347, Stop: 6027, Start Num: 175

Candidate Starts for Stormbreaker_9:
(95, 6467), (114, 6437), (Start: 175 @6347 has 54 MA's), (199, 6296), (204, 6281), (216, 6233), (279, 6092),

Gene: Stromboli_37 Start: 26614, Stop: 26847, Start Num: 184
Candidate Starts for Stromboli_37:
(97, 26485), (98, 26488), (110, 26506), (118, 26518), (119, 26521), (127, 26530), (Start: 176 @26605 has 12 MA's), (Start: 184 @26614 has 74 MA's), (253, 26764),

Gene: Strosahl_64 Start: 37446, Stop: 37177, Start Num: 172
Candidate Starts for Strosahl_64:
(16, 37890), (19, 37866), (27, 37788), (Start: 172 @37446 has 33 MA's), (262, 37269),

Gene: Stuck_65 Start: 45144, Stop: 45389, Start Num: 182
Candidate Starts for Stuck_65:
(Start: 182 @45144 has 43 MA's), (188, 45156), (190, 45162), (211, 45228), (233, 45273), (259, 45303),

Gene: Studio_2 Start: 600, Stop: 863, Start Num: 176
Candidate Starts for Studio_2:
(Start: 176 @600 has 12 MA's),

Gene: SuMoo_44 Start: 27844, Stop: 28113, Start Num: 165
Candidate Starts for SuMoo_44:
(66, 27691), (83, 27730), (85, 27733), (Start: 165 @27844 has 11 MA's), (199, 27898), (211, 27931), (249, 28012), (275, 28057),

Gene: Sue2_34 Start: 25374, Stop: 25640, Start Num: 163
Candidate Starts for Sue2_34:
(51, 25137), (54, 25146), (75, 25221), (Start: 163 @25374 has 36 MA's), (259, 25557), (290, 25614),

Gene: SunnyD_36 Start: 24766, Stop: 24996, Start Num: 184
Candidate Starts for SunnyD_36:
(Start: 184 @24766 has 74 MA's), (201, 24811),

Gene: SunnyJune_47 Start: 33718, Stop: 34011, Start Num: 168
Candidate Starts for SunnyJune_47:
(132, 33658), (Start: 168 @33718 has 7 MA's), (Start: 195 @33769 has 2 MA's), (201, 33784), (215, 33832), (248, 33886), (254, 33898), (257, 33907), (297, 33991),

Gene: SuperHands_41 Start: 28766, Stop: 29023, Start Num: 165
Candidate Starts for SuperHands_41:
(Start: 165 @28766 has 11 MA's), (199, 28820), (256, 28946), (264, 28958), (274, 28970),

Gene: Superchunk_56 Start: 36944, Stop: 36672, Start Num: 137
Candidate Starts for Superchunk_56:
(Start: 137 @36944 has 12 MA's), (Start: 189 @36917 has 10 MA's), (244, 36794), (251, 36782),

Gene: Superphikiman_51 Start: 40814, Stop: 41053, Start Num: 189
Candidate Starts for Superphikiman_51:
(Start: 189 @40814 has 10 MA's), (Start: 196 @40841 has 1 MA's), (221, 40895), (222, 40898), (257, 40955), (277, 40991),

Gene: Swann_46 Start: 34296, Stop: 34000, Start Num: 164
Candidate Starts for Swann_46:
(Start: 164 @34296 has 41 MA's), (Start: 183 @34278 has 16 MA's), (188, 34272), (235, 34155), (259, 34122), (264, 34116), (294, 34056), (303, 34008),

Gene: Sweetclover_51 Start: 33033, Stop: 33266, Start Num: 181
Candidate Starts for Sweetclover_51:
(112, 32928), (Start: 181 @33033 has 12 MA's), (207, 33096), (241, 33168),

Gene: SweetiePie_58 Start: 38635, Stop: 38363, Start Num: 161
Candidate Starts for SweetiePie_58:
(Start: 161 @38635 has 101 MA's), (Start: 178 @38626 has 4 MA's), (Start: 187 @38614 has 14 MA's), (Start: 189 @38608 has 10 MA's),

Gene: Swervy_37 Start: 25456, Stop: 25698, Start Num: 184
Candidate Starts for Swervy_37:
(Start: 184 @25456 has 74 MA's), (289, 25690),

Gene: SwirlSquare_61 Start: 37866, Stop: 37594, Start Num: 161
Candidate Starts for SwirlSquare_61:
(Start: 161 @37866 has 101 MA's), (Start: 189 @37839 has 10 MA's), (207, 37791), (230, 37734), (262, 37686), (273, 37668),

Gene: SwissCheezer_9 Start: 6356, Stop: 6036, Start Num: 175
Candidate Starts for SwissCheezer_9:
(114, 6446), (Start: 175 @6356 has 54 MA's), (199, 6305), (204, 6290), (216, 6242), (279, 6101),

Gene: Switzerland_63 Start: 37766, Stop: 37497, Start Num: 172
Candidate Starts for Switzerland_63:
(16, 38210), (27, 38108), (Start: 172 @37766 has 33 MA's), (262, 37589),

Gene: TBrady12_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for TBrady12_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: TMaxx_3 Start: 937, Stop: 1194, Start Num: 183
Candidate Starts for TMaxx_3:
(116, 838), (124, 850), (Start: 183 @937 has 16 MA's),

Gene: TWAMP_46 Start: 34298, Stop: 34002, Start Num: 164
Candidate Starts for TWAMP_46:
(Start: 164 @34298 has 41 MA's), (Start: 183 @34280 has 16 MA's), (188, 34274), (235, 34157), (259, 34124), (264, 34118), (294, 34058), (303, 34010),

Gene: TZGordon_64 Start: 38982, Stop: 39206, Start Num: 185
Candidate Starts for TZGordon_64:
(Start: 185 @38982 has 20 MA's), (199, 39024), (221, 39069), (224, 39078), (255, 39129), (259, 39138),

Gene: Tailonex_48 Start: 37705, Stop: 37427, Start Num: 168
Candidate Starts for Tailonex_48:
(Start: 168 @37705 has 7 MA's), (Start: 205 @37630 has 3 MA's), (270, 37504),

Gene: Takoda_46 Start: 34472, Stop: 34176, Start Num: 164
Candidate Starts for Takoda_46:
(Start: 164 @34472 has 41 MA's), (Start: 183 @34454 has 16 MA's), (188, 34448), (235, 34331), (259, 34298), (264, 34292), (294, 34232), (303, 34184),

Gene: Tallboi_33 Start: 25971, Stop: 26237, Start Num: 160
Candidate Starts for Tallboi_33:
(43, 25716), (55, 25752), (Start: 160 @25971 has 5 MA's), (259, 26154),

Gene: Tandem_28 Start: 9118, Stop: 9372, Start Num: 182
Candidate Starts for Tandem_28:
(144, 9070), (166, 9103), (Start: 182 @9118 has 43 MA's), (199, 9163), (218, 9199), (255, 9286),

Gene: Tarkin_39 Start: 34124, Stop: 34369, Start Num: 180
Candidate Starts for Tarkin_39:
(Start: 180 @34124 has 162 MA's), (Start: 205 @34181 has 3 MA's), (221, 34214), (223, 34220), (254, 34274), (262, 34286),

Gene: Tbone_32 Start: 24550, Stop: 24816, Start Num: 163
Candidate Starts for Tbone_32:
(43, 24292), (55, 24328), (Start: 163 @24550 has 36 MA's), (259, 24733),

Gene: Teagster_37 Start: 25597, Stop: 25827, Start Num: 184
Candidate Starts for Teagster_37:
(Start: 184 @25597 has 74 MA's), (201, 25642),

Gene: TeamEdward_37 Start: 33306, Stop: 33551, Start Num: 180
Candidate Starts for TeamEdward_37:
(Start: 180 @33306 has 162 MA's), (Start: 205 @33363 has 3 MA's), (221, 33396), (223, 33402), (254, 33456), (262, 33468),

Gene: TeardropMSU_36 Start: 33035, Stop: 33280, Start Num: 180
Candidate Starts for TeardropMSU_36:
(Start: 180 @33035 has 162 MA's), (Start: 205 @33092 has 3 MA's), (221, 33125), (223, 33131), (254, 33185), (262, 33197),

Gene: Teaspoon_38 Start: 33088, Stop: 33333, Start Num: 180
Candidate Starts for Teaspoon_38:
(Start: 180 @33088 has 162 MA's), (Start: 205 @33145 has 3 MA's), (221, 33178), (223, 33184), (254, 33238), (262, 33250),

Gene: Terminus_37 Start: 33222, Stop: 33467, Start Num: 180
Candidate Starts for Terminus_37:
(Start: 180 @33222 has 162 MA's), (Start: 205 @33279 has 3 MA's), (221, 33312), (223, 33318), (254, 33372), (262, 33384),

Gene: TforTroy_34 Start: 25368, Stop: 25634, Start Num: 163
Candidate Starts for TforTroy_34:
(Start: 163 @25368 has 36 MA's), (259, 25551),

Gene: ThayneTheZag_78 Start: 39595, Stop: 39912, Start Num: 138
Candidate Starts for ThayneTheZag_78:

(Start: 138 @39595 has 50 MA's),

Gene: Thibault_45 Start: 41387, Stop: 41626, Start Num: 189
Candidate Starts for Thibault_45:
(Start: 189 @41387 has 10 MA's), (Start: 196 @41414 has 1 MA's), (221, 41468), (222, 41471), (257, 41528), (277, 41564),

Gene: Thimble_37 Start: 32085, Stop: 32330, Start Num: 180
Candidate Starts for Thimble_37:
(Start: 180 @32085 has 162 MA's), (Start: 205 @32142 has 3 MA's), (221, 32175), (223, 32181), (254, 32235), (262, 32247),

Gene: ThirteenKH_9 Start: 6080, Stop: 5724, Start Num: 175
Candidate Starts for ThirteenKH_9:
(Start: 175 @6080 has 54 MA's), (Start: 195 @6041 has 2 MA's), (201, 6026), (228, 5930), (280, 5813), (297, 5774),

Gene: ThreeRngTarjay_50 Start: 44296, Stop: 44541, Start Num: 180
Candidate Starts for ThreeRngTarjay_50:
(Start: 180 @44296 has 162 MA's), (207, 44359), (221, 44389), (222, 44392), (259, 44452), (262, 44455), (264, 44458),

Gene: Thresher_38 Start: 33889, Stop: 34134, Start Num: 180
Candidate Starts for Thresher_38:
(Start: 180 @33889 has 162 MA's), (Start: 205 @33946 has 3 MA's), (221, 33979), (223, 33985), (254, 34039), (262, 34051),

Gene: ThursdayNight_38 Start: 26453, Stop: 26713, Start Num: 151
Candidate Starts for ThursdayNight_38:
(53, 26240), (55, 26249), (Start: 151 @26453 has 1 MA's), (259, 26624),

Gene: Tian_33 Start: 26378, Stop: 26620, Start Num: 164
Candidate Starts for Tian_33:
(Start: 164 @26378 has 41 MA's),

Gene: TicTac_9 Start: 6319, Stop: 5996, Start Num: 175
Candidate Starts for TicTac_9:
(72, 6487), (98, 6436), (Start: 175 @6319 has 54 MA's), (199, 6268), (204, 6253), (216, 6205), (262, 6097), (291, 6049), (297, 6031),

Gene: Tiff81_68 Start: 37265, Stop: 37582, Start Num: 138
Candidate Starts for Tiff81_68:
(108, 37229), (Start: 138 @37265 has 50 MA's), (221, 37415), (289, 37541),

Gene: Timothy_57 Start: 37302, Stop: 37030, Start Num: 162
Candidate Starts for Timothy_57:
(Start: 162 @37302 has 35 MA's), (Start: 178 @37293 has 4 MA's), (262, 37122),

Gene: TinaLin_62 Start: 38825, Stop: 39049, Start Num: 185
Candidate Starts for TinaLin_62:
(Start: 185 @38825 has 20 MA's), (199, 38867), (221, 38912), (224, 38921), (255, 38972), (259, 38981), (277, 39002),

Gene: TinyTimmy_57 Start: 37351, Stop: 37079, Start Num: 162
Candidate Starts for TinyTimmy_57:
(Start: 162 @37351 has 35 MA's), (Start: 178 @37342 has 4 MA's), (262, 37171),

Gene: TinyTimothy_9 Start: 6219, Stop: 5899, Start Num: 175
Candidate Starts for TinyTimothy_9:
(Start: 175 @6219 has 54 MA's), (Start: 195 @6180 has 2 MA's), (199, 6168), (261, 6000), (297, 5931),

Gene: TipsytheTRex_54 Start: 37698, Stop: 37426, Start Num: 162
Candidate Starts for TipsytheTRex_54:
(94, 37770), (101, 37758), (Start: 162 @37698 has 35 MA's), (Start: 187 @37677 has 14 MA's), (Start: 189 @37671 has 10 MA's), (244, 37548), (251, 37536),

Gene: Toaka_58 Start: 38206, Stop: 37934, Start Num: 161
Candidate Starts for Toaka_58:
(Start: 161 @38206 has 101 MA's), (Start: 178 @38197 has 4 MA's), (244, 38056), (255, 38038),

Gene: Tomaszewski_36 Start: 32732, Stop: 32977, Start Num: 180
Candidate Starts for Tomaszewski_36:
(Start: 180 @32732 has 162 MA's), (Start: 205 @32789 has 3 MA's), (221, 32822), (223, 32828), (251, 32876), (254, 32882), (262, 32894),

Gene: Tomathan_60 Start: 38318, Stop: 38046, Start Num: 161
Candidate Starts for Tomathan_60:
(Start: 161 @38318 has 101 MA's), (Start: 178 @38309 has 4 MA's), (220, 38216), (262, 38138), (291, 38084),

Gene: Toniann_125 Start: 71160, Stop: 71450, Start Num: 172
Candidate Starts for Toniann_125:
(105, 71052), (115, 71067), (140, 71112), (Start: 172 @71160 has 33 MA's), (Start: 195 @71205 has 2 MA's), (255, 71334),

Gene: Toto_37 Start: 33135, Stop: 33380, Start Num: 180
Candidate Starts for Toto_37:
(Start: 180 @33135 has 162 MA's), (Start: 205 @33192 has 3 MA's), (221, 33225), (223, 33231), (254, 33285), (262, 33297),

Gene: Tourach_32 Start: 28413, Stop: 28679, Start Num: 179
Candidate Starts for Tourach_32:
(Start: 179 @28413 has 71 MA's), (Start: 198 @28458 has 8 MA's), (222, 28509), (299, 28647), (302, 28668),

Gene: Towmatter_75 Start: 53043, Stop: 52786, Start Num: 163
Candidate Starts for Towmatter_75:
(134, 53094), (139, 53079), (145, 53070), (147, 53067), (Start: 163 @53043 has 36 MA's), (256, 52872),

Gene: Traaww1_35 Start: 32773, Stop: 33018, Start Num: 180
Candidate Starts for Traaww1_35:
(Start: 180 @32773 has 162 MA's), (Start: 205 @32830 has 3 MA's), (221, 32863), (223, 32869), (254, 32923), (262, 32935),

Gene: Travvers_60 Start: 38268, Stop: 37996, Start Num: 161

Candidate Starts for Travvers_60:
(Start: 161 @38268 has 101 MA's), (Start: 178 @38259 has 4 MA's), (220, 38166), (262, 38088), (291, 38034),

Gene: TriFive_31 Start: 28784, Stop: 29050, Start Num: 179
Candidate Starts for TriFive_31:
(Start: 179 @28784 has 71 MA's), (Start: 189 @28796 has 10 MA's), (Start: 198 @28829 has 8 MA's),

Gene: TripleC_6 Start: 4398, Stop: 4658, Start Num: 179
Candidate Starts for TripleC_6:
(Start: 179 @4398 has 71 MA's), (Start: 185 @4404 has 20 MA's), (220, 4488), (284, 4617),

Gene: TripleJ_57 Start: 35331, Stop: 35654, Start Num: 138
Candidate Starts for TripleJ_57:
(99, 35280), (Start: 138 @35331 has 50 MA's), (Start: 195 @35412 has 2 MA's), (203, 35433), (285, 35601),

Gene: TrippleS_9 Start: 6080, Stop: 5724, Start Num: 175
Candidate Starts for TrippleS_9:
(Start: 175 @6080 has 54 MA's), (Start: 195 @6041 has 2 MA's), (201, 6026), (228, 5930), (280, 5813), (297, 5774),

Gene: Truong_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for Truong_9:
(102, 6161), (Start: 175 @6089 has 54 MA's), (Start: 195 @6050 has 2 MA's), (215, 5978), (228, 5939), (298, 5798),

Gene: Tubs_58 Start: 38225, Stop: 37953, Start Num: 161
Candidate Starts for Tubs_58:
(Start: 161 @38225 has 101 MA's), (Start: 178 @38216 has 4 MA's), (Start: 202 @38159 has 2 MA's), (220, 38123), (233, 38084), (255, 38057), (262, 38045),

Gene: Tuck_36 Start: 27187, Stop: 27453, Start Num: 163
Candidate Starts for Tuck_36:
(43, 26950), (49, 26959), (Start: 163 @27187 has 36 MA's),

Gene: Tuco_38 Start: 33643, Stop: 33888, Start Num: 180
Candidate Starts for Tuco_38:
(Start: 180 @33643 has 162 MA's), (Start: 205 @33700 has 3 MA's), (221, 33733), (223, 33739), (254, 33793), (262, 33805),

Gene: TukTuk_37 Start: 25527, Stop: 25769, Start Num: 184
Candidate Starts for TukTuk_37:
(Start: 184 @25527 has 74 MA's), (243, 25668),

Gene: Turab_32 Start: 24438, Stop: 24704, Start Num: 160
Candidate Starts for Turab_32:
(13, 23982), (43, 24183), (55, 24219), (Start: 160 @24438 has 5 MA's), (259, 24621),

Gene: Turbido_59 Start: 38719, Stop: 38447, Start Num: 161
Candidate Starts for Turbido_59:
(Start: 161 @38719 has 101 MA's), (Start: 178 @38710 has 4 MA's), (Start: 187 @38698 has 14 MA's), (Start: 189 @38692 has 10 MA's),

Gene: Tutumahutu_33 Start: 24722, Stop: 24988, Start Num: 163
Candidate Starts for Tutumahutu_33:
(43, 24464), (55, 24500), (Start: 163 @24722 has 36 MA's), (259, 24905),

Gene: Tweety19_33 Start: 23630, Stop: 23896, Start Num: 163
Candidate Starts for Tweety19_33:
(51, 23420), (54, 23429), (Start: 163 @23630 has 36 MA's), (259, 23813),

Gene: Tyson_30 Start: 27735, Stop: 27959, Start Num: 198
Candidate Starts for Tyson_30:
(Start: 179 @27690 has 71 MA's), (Start: 198 @27735 has 8 MA's), (257, 27843),

Gene: UPIE_30 Start: 27688, Stop: 27957, Start Num: 179
Candidate Starts for UPIE_30:
(Start: 179 @27688 has 71 MA's), (Start: 198 @27733 has 8 MA's), (257, 27841),

Gene: Ugenie5_55 Start: 38510, Stop: 38238, Start Num: 161
Candidate Starts for Ugenie5_55:
(Start: 161 @38510 has 101 MA's), (Start: 178 @38501 has 4 MA's), (Start: 202 @38444 has 2 MA's), (220, 38408), (233, 38369), (255, 38342), (262, 38330),

Gene: UhSalsa_46 Start: 34231, Stop: 33935, Start Num: 164
Candidate Starts for UhSalsa_46:
(Start: 164 @34231 has 41 MA's), (Start: 183 @34213 has 16 MA's), (188, 34207), (235, 34090), (259, 34057), (264, 34051), (294, 33991), (303, 33943),

Gene: Ukulele_37 Start: 32893, Stop: 33138, Start Num: 180
Candidate Starts for Ukulele_37:
(Start: 180 @32893 has 162 MA's), (Start: 205 @32950 has 3 MA's), (221, 32983), (223, 32989), (254, 33043), (262, 33055),

Gene: Underpass_32 Start: 28424, Stop: 28690, Start Num: 179
Candidate Starts for Underpass_32:
(Start: 179 @28424 has 71 MA's), (Start: 198 @28469 has 8 MA's), (222, 28520), (264, 28586), (299, 28658), (302, 28679),

Gene: Unphazed_9 Start: 6368, Stop: 6045, Start Num: 175
Candidate Starts for Unphazed_9:
(Start: 175 @6368 has 54 MA's), (199, 6317), (210, 6272), (216, 6254), (261, 6149), (291, 6098),

Gene: Uterion_32 Start: 10006, Stop: 10254, Start Num: 182
Candidate Starts for Uterion_32:
(Start: 150 @9967 has 1 MA's), (Start: 182 @10006 has 43 MA's), (199, 10051), (218, 10087), (283, 10234),

Gene: UtzChips_41 Start: 26893, Stop: 27153, Start Num: 165
Candidate Starts for UtzChips_41:
(80, 26767), (Start: 165 @26893 has 11 MA's),

Gene: VC3_61 Start: 38705, Stop: 38394, Start Num: 137
Candidate Starts for VC3_61:

(Start: 137 @38705 has 12 MA's), (Start: 162 @38666 has 35 MA's), (Start: 178 @38657 has 4 MA's), (220, 38564), (244, 38516), (262, 38486),

Gene: Vanisoa_58 Start: 39326, Stop: 39054, Start Num: 161
Candidate Starts for Vanisoa_58:
(Start: 161 @39326 has 101 MA's), (Start: 178 @39317 has 4 MA's), (Start: 202 @39260 has 2 MA's), (220, 39224), (244, 39176), (262, 39146), (267, 39137),

Gene: Vendetta_63 Start: 40094, Stop: 40318, Start Num: 185
Candidate Starts for Vendetta_63:
(Start: 185 @40094 has 20 MA's), (199, 40136), (221, 40181), (224, 40190), (255, 40241), (259, 40250),

Gene: Vetrix_32 Start: 28428, Stop: 28694, Start Num: 179
Candidate Starts for Vetrix_32:
(Start: 179 @28428 has 71 MA's), (Start: 198 @28473 has 8 MA's), (222, 28524), (264, 28590), (299, 28662), (302, 28683),

Gene: Vibaki_39 Start: 33279, Stop: 33614, Start Num: 156
Candidate Starts for Vibaki_39:
(Start: 156 @33279 has 2 MA's), (Start: 168 @33294 has 7 MA's), (256, 33507), (257, 33510), (294, 33585),

Gene: Vitas_33 Start: 23412, Stop: 23642, Start Num: 184
Candidate Starts for Vitas_33:
(52, 23160), (61, 23190), (Start: 176 @23403 has 12 MA's), (Start: 184 @23412 has 74 MA's), (221, 23499), (274, 23604), (289, 23634),

Gene: Vitus_40 Start: 32270, Stop: 32614, Start Num: 156
Candidate Starts for Vitus_40:
(26, 31940), (Start: 156 @32270 has 2 MA's), (Start: 168 @32285 has 7 MA's), (201, 32351), (209, 32381), (229, 32438), (251, 32492), (256, 32504), (294, 32582),

Gene: Volt_121 Start: 57210, Stop: 57449, Start Num: 187
Candidate Starts for Volt_121:
(Start: 187 @57210 has 14 MA's), (242, 57333), (280, 57405), (281, 57408),

Gene: Vopal_74 Start: 40874, Stop: 41170, Start Num: 138
Candidate Starts for Vopal_74:
(Start: 90 @40814 has 6 MA's), (Start: 138 @40874 has 50 MA's),

Gene: VroomVroom_39 Start: 26557, Stop: 26892, Start Num: 161
Candidate Starts for VroomVroom_39:
(Start: 161 @26557 has 101 MA's), (261, 26749),

Gene: WaddleDee_95 Start: 82115, Stop: 82375, Start Num: 182
Candidate Starts for WaddleDee_95:
(Start: 182 @82115 has 43 MA's), (275, 82304), (289, 82334), (291, 82337),

Gene: Waits_64 Start: 37663, Stop: 37394, Start Num: 172
Candidate Starts for Waits_64:
(16, 38107), (19, 38083), (27, 38005), (Start: 172 @37663 has 33 MA's), (262, 37486),

Gene: WalkingDead_38 Start: 27005, Stop: 27238, Start Num: 184
Candidate Starts for WalkingDead_38:
(97, 26876), (98, 26879), (110, 26897), (118, 26909), (119, 26912), (127, 26921), (Start: 176 @26996 has 12 MA's), (Start: 184 @27005 has 74 MA's),

Gene: Wamburgrxpress_30 Start: 27703, Stop: 27972, Start Num: 179
Candidate Starts for Wamburgrxpress_30:
(Start: 179 @27703 has 71 MA's), (Start: 198 @27748 has 8 MA's), (257, 27856),

Gene: Wanda_58 Start: 44007, Stop: 44255, Start Num: 180
Candidate Starts for Wanda_58:
(Start: 180 @44007 has 162 MA's), (245, 44139),

Gene: Warda_33 Start: 24726, Stop: 24992, Start Num: 163
Candidate Starts for Warda_33:
(43, 24468), (55, 24504), (Start: 163 @24726 has 36 MA's), (259, 24909),

Gene: Warrior24_66 Start: 38097, Stop: 37828, Start Num: 172
Candidate Starts for Warrior24_66:
(Start: 172 @38097 has 33 MA's), (262, 37920),

Gene: WaterT_52 Start: 33281, Stop: 33520, Start Num: 185
Candidate Starts for WaterT_52:
(Start: 185 @33281 has 20 MA's), (207, 33338), (220, 33365), (223, 33374),

Gene: Waterlily_9 Start: 6089, Stop: 5751, Start Num: 175
Candidate Starts for Waterlily_9:
(102, 6161), (Start: 175 @6089 has 54 MA's), (Start: 195 @6050 has 2 MA's), (215, 5978), (228, 5939), (246, 5897), (298, 5798),

Gene: Weiss13_40 Start: 36088, Stop: 36333, Start Num: 174
Candidate Starts for Weiss13_40:
(145, 36046), (Start: 174 @36088 has 10 MA's), (Start: 189 @36109 has 10 MA's), (Start: 195 @36130 has 2 MA's), (Start: 205 @36154 has 3 MA's), (207, 36157), (260, 36256), (263, 36259), (265, 36262),

Gene: Welcome_36 Start: 10355, Stop: 10609, Start Num: 182
Candidate Starts for Welcome_36:
(44, 10088), (Start: 162 @10340 has 35 MA's), (Start: 182 @10355 has 43 MA's), (199, 10400), (223, 10451), (231, 10469), (238, 10487),

Gene: Wesak_9 Start: 6219, Stop: 5899, Start Num: 175
Candidate Starts for Wesak_9:
(Start: 175 @6219 has 54 MA's), (Start: 195 @6180 has 2 MA's), (199, 6168), (201, 6165), (261, 6000), (297, 5931),

Gene: Whabigail7_59 Start: 38704, Stop: 38432, Start Num: 161
Candidate Starts for Whabigail7_59:
(Start: 161 @38704 has 101 MA's), (Start: 178 @38695 has 4 MA's), (Start: 187 @38683 has 14 MA's), (Start: 189 @38677 has 10 MA's), (244, 38554),

Gene: Whirlwind_32 Start: 28525, Stop: 28791, Start Num: 179
Candidate Starts for Whirlwind_32:

(Start: 151 @28486 has 1 MA's), (Start: 179 @28525 has 71 MA's), (Start: 189 @28537 has 10 MA's), (Start: 198 @28570 has 8 MA's), (221, 28618),

Gene: Wiggin_40 Start: 33639, Stop: 33884, Start Num: 180
Candidate Starts for Wiggin_40:
(Start: 180 @33639 has 162 MA's), (Start: 205 @33696 has 3 MA's), (221, 33729), (223, 33735), (254, 33789), (262, 33801),

Gene: Wigglewiggle_32 Start: 28454, Stop: 28720, Start Num: 179
Candidate Starts for Wigglewiggle_32:
(Start: 179 @28454 has 71 MA's), (Start: 198 @28499 has 8 MA's), (222, 28550), (264, 28616), (299, 28688), (302, 28709),

Gene: Wildcat_53 Start: 39356, Stop: 39604, Start Num: 182
Candidate Starts for Wildcat_53:
(Start: 182 @39356 has 43 MA's), (218, 39437), (235, 39485), (259, 39518), (262, 39521), (264, 39524), (278, 39557), (295, 39593),

Gene: Wilder_32 Start: 28427, Stop: 28693, Start Num: 179
Candidate Starts for Wilder_32:
(Start: 179 @28427 has 71 MA's), (Start: 198 @28472 has 8 MA's), (222, 28523), (264, 28589), (299, 28661), (302, 28682),

Gene: Wildwest_33 Start: 24524, Stop: 24790, Start Num: 163
Candidate Starts for Wildwest_33:
(43, 24266), (55, 24302), (Start: 163 @24524 has 36 MA's), (259, 24707),

Gene: Willez_36 Start: 32639, Stop: 32884, Start Num: 180
Candidate Starts for Willez_36:
(Start: 180 @32639 has 162 MA's), (Start: 205 @32696 has 3 MA's), (221, 32729), (223, 32735), (254, 32789), (262, 32801),

Gene: WilliamBoone_123 Start: 68402, Stop: 68692, Start Num: 172
Candidate Starts for WilliamBoone_123:
(128, 68330), (Start: 172 @68402 has 33 MA's), (255, 68576), (257, 68582),

Gene: Windest_77 Start: 38033, Stop: 38356, Start Num: 138
Candidate Starts for Windest_77:
(Start: 138 @38033 has 50 MA's), (255, 38252),

Gene: Winky_32 Start: 28422, Stop: 28688, Start Num: 179
Candidate Starts for Winky_32:
(Start: 179 @28422 has 71 MA's), (Start: 198 @28467 has 8 MA's), (222, 28518), (264, 28584), (299, 28656), (302, 28677),

Gene: Wolfstar_31 Start: 9938, Stop: 10189, Start Num: 182
Candidate Starts for Wolfstar_31:
(20, 9515), (25, 9551), (155, 9908), (159, 9914), (Start: 182 @9938 has 43 MA's), (199, 9983), (218, 10019), (255, 10106),

Gene: Wolpertinger_56 Start: 37334, Stop: 37062, Start Num: 162
Candidate Starts for Wolpertinger_56:
(Start: 162 @37334 has 35 MA's), (Start: 178 @37325 has 4 MA's), (262, 37154),

Gene: WorldCup_57 Start: 37992, Stop: 37720, Start Num: 161
Candidate Starts for WorldCup_57:
(Start: 161 @37992 has 101 MA's), (Start: 178 @37983 has 4 MA's), (Start: 202 @37926 has 2 MA's), (220, 37890), (244, 37842),

Gene: Wyatt2_30 Start: 27690, Stop: 27959, Start Num: 179
Candidate Starts for Wyatt2_30:
(Start: 179 @27690 has 71 MA's), (Start: 198 @27735 has 8 MA's), (257, 27843),

Gene: Xandras_39 Start: 33125, Stop: 33370, Start Num: 180
Candidate Starts for Xandras_39:
(Start: 180 @33125 has 162 MA's), (Start: 205 @33182 has 3 MA's), (221, 33215), (223, 33221), (254, 33275), (262, 33287),

Gene: Xiaokay_47 Start: 41033, Stop: 41281, Start Num: 180
Candidate Starts for Xiaokay_47:
(Start: 180 @41033 has 162 MA's), (Start: 196 @41072 has 1 MA's), (221, 41126), (222, 41129), (257, 41186), (277, 41222), (299, 41270),

Gene: Xitlalli_9 Start: 6353, Stop: 6033, Start Num: 175
Candidate Starts for Xitlalli_9:
(114, 6443), (Start: 175 @6353 has 54 MA's), (199, 6302), (204, 6287), (216, 6239), (279, 6098),

Gene: Yafa_9 Start: 6095, Stop: 5739, Start Num: 175
Candidate Starts for Yafa_9:
(Start: 175 @6095 has 54 MA's), (Start: 195 @6056 has 2 MA's), (201, 6041), (228, 5945), (280, 5828), (297, 5789),

Gene: Yang_33 Start: 24867, Stop: 25133, Start Num: 163
Candidate Starts for Yang_33:
(43, 24609), (55, 24645), (Start: 163 @24867 has 36 MA's), (259, 25050),

Gene: Yappy_50 Start: 13369, Stop: 13620, Start Num: 157
Candidate Starts for Yappy_50:
(Start: 157 @13369 has 1 MA's), (Start: 183 @13402 has 16 MA's), (Start: 189 @13414 has 10 MA's), (199, 13447), (211, 13480),

Gene: YassJohnny_38 Start: 33650, Stop: 33895, Start Num: 180
Candidate Starts for YassJohnny_38:
(Start: 180 @33650 has 162 MA's), (Start: 205 @33707 has 3 MA's), (221, 33740), (223, 33746), (254, 33800), (262, 33812),

Gene: Yecey3_59 Start: 38093, Stop: 37821, Start Num: 161
Candidate Starts for Yecey3_59:
(Start: 161 @38093 has 101 MA's), (Start: 178 @38084 has 4 MA's), (Start: 202 @38027 has 2 MA's), (220, 37991), (244, 37943), (255, 37925),

Gene: Yeet_50 Start: 43428, Stop: 43673, Start Num: 180
Candidate Starts for Yeet_50:
(Start: 180 @43428 has 162 MA's), (207, 43491), (221, 43521), (222, 43524), (259, 43584), (262, 43587), (264, 43590),

Gene: YellowPanda_9 Start: 6219, Stop: 5899, Start Num: 175
Candidate Starts for YellowPanda_9:
(Start: 175 @6219 has 54 MA's), (Start: 195 @6180 has 2 MA's), (199, 6168), (201, 6165), (261, 6000), (297, 5931),

Gene: Yelo_40 Start: 36381, Stop: 36626, Start Num: 174
Candidate Starts for Yelo_40:
(145, 36339), (Start: 174 @36381 has 10 MA's), (Start: 189 @36402 has 10 MA's), (Start: 195 @36423 has 2 MA's), (207, 36450), (260, 36549), (263, 36552), (265, 36555), (294, 36606),

Gene: YesChef_33 Start: 24727, Stop: 24969, Start Num: 163
Candidate Starts for YesChef_33:
(Start: 163 @24727 has 36 MA's), (259, 24886),

Gene: Yogi_45 Start: 34272, Stop: 33976, Start Num: 164
Candidate Starts for Yogi_45:
(Start: 164 @34272 has 41 MA's), (Start: 183 @34254 has 16 MA's), (188, 34248), (235, 34131), (259, 34098), (264, 34092), (294, 34032), (303, 33984),

Gene: Yoncess_45 Start: 34052, Stop: 33756, Start Num: 164
Candidate Starts for Yoncess_45:
(Start: 164 @34052 has 41 MA's), (Start: 183 @34034 has 16 MA's), (188, 34028), (235, 33911), (259, 33878), (264, 33872), (294, 33812), (303, 33764),

Gene: Yotsuba_51 Start: 37228, Stop: 37476, Start Num: 181
Candidate Starts for Yotsuba_51:
(Start: 181 @37228 has 12 MA's), (223, 37327), (225, 37333), (257, 37387), (259, 37390), (264, 37396), (296, 37465),

Gene: YoungHarleezy_72 Start: 38387, Stop: 38743, Start Num: 90
Candidate Starts for YoungHarleezy_72:
(Start: 90 @38387 has 6 MA's), (Start: 138 @38447 has 50 MA's), (264, 38654),

Gene: Youngblood_37 Start: 33295, Stop: 33540, Start Num: 180
Candidate Starts for Youngblood_37:
(Start: 180 @33295 has 162 MA's), (Start: 205 @33352 has 3 MA's), (221, 33385), (223, 33391), (251, 33439), (254, 33445), (262, 33457),

Gene: Yuma_34 Start: 10257, Stop: 10511, Start Num: 182
Candidate Starts for Yuma_34:
(Start: 162 @10242 has 35 MA's), (Start: 182 @10257 has 43 MA's), (199, 10302), (255, 10425),

Gene: Yvonnetastic_129 Start: 73454, Stop: 73753, Start Num: 170
Candidate Starts for Yvonnetastic_129:
(Start: 170 @73454 has 12 MA's), (199, 73514), (214, 73556), (221, 73565), (233, 73601), (255, 73631),

Gene: Zakai_32 Start: 28678, Stop: 28944, Start Num: 179
Candidate Starts for Zakai_32:
(Start: 179 @28678 has 71 MA's), (Start: 198 @28723 has 8 MA's), (264, 28840), (302, 28933),

Gene: Zaria_30 Start: 27704, Stop: 27973, Start Num: 179
Candidate Starts for Zaria_30:

(Start: 179 @27704 has 71 MA's), (Start: 198 @27749 has 8 MA's), (257, 27857),

Gene: Zelink_53 Start: 45222, Stop: 45467, Start Num: 180
Candidate Starts for Zelink_53:
(Start: 180 @45222 has 162 MA's), (207, 45285), (221, 45315), (222, 45318), (259, 45378), (262, 45381), (264, 45384),

Gene: Zenon_41 Start: 36400, Stop: 36645, Start Num: 174
Candidate Starts for Zenon_41:
(145, 36358), (Start: 174 @36400 has 10 MA's), (Start: 189 @36421 has 10 MA's), (Start: 195 @36442 has 2 MA's), (207, 36469), (260, 36568), (263, 36571), (265, 36574), (294, 36625),

Gene: Zeta1847_35 Start: 25236, Stop: 25493, Start Num: 180
Candidate Starts for Zeta1847_35:
(1, 24102), (2, 24135), (3, 24270), (85, 25080), (Start: 180 @25236 has 162 MA's), (Start: 195 @25275 has 2 MA's),

Gene: Zhengyi_9 Start: 6127, Stop: 5798, Start Num: 175
Candidate Starts for Zhengyi_9:
(Start: 175 @6127 has 54 MA's), (199, 6073), (228, 5974), (261, 5905), (271, 5881), (297, 5836),

Gene: ZhongYanYuan_31 Start: 28288, Stop: 28509, Start Num: 198
Candidate Starts for ZhongYanYuan_31:
(Start: 179 @28243 has 71 MA's), (Start: 198 @28288 has 8 MA's), (222, 28339), (299, 28477), (302, 28498),

Gene: Ziko_119 Start: 57052, Stop: 57291, Start Num: 187
Candidate Starts for Ziko_119:
(Start: 187 @57052 has 14 MA's), (242, 57175), (280, 57247), (281, 57250),

Gene: Zimmer_55 Start: 39223, Stop: 38951, Start Num: 161
Candidate Starts for Zimmer_55:
(142, 39253), (Start: 161 @39223 has 101 MA's), (220, 39121), (244, 39073), (255, 39055), (262, 39043),

Gene: Zooman_185 Start: 110949, Stop: 110695, Start Num: 183
Candidate Starts for Zooman_185:
(148, 110997), (Start: 183 @110949 has 16 MA's),

Gene: Zooman_18 Start: 8314, Stop: 8547, Start Num: 185
Candidate Starts for Zooman_18:
(Start: 185 @8314 has 20 MA's), (210, 8389), (292, 8536),

Gene: Zooman_331 Start: 183965, Stop: 184198, Start Num: 185
Candidate Starts for Zooman_331:
(Start: 185 @183965 has 20 MA's), (210, 184040), (292, 184187),

Gene: Zucker_69 Start: 40359, Stop: 40676, Start Num: 138
Candidate Starts for Zucker_69:
(Start: 138 @40359 has 50 MA's), (199, 40464), (255, 40572),

Gene: xkcd_38 Start: 33304, Stop: 33549, Start Num: 180
Candidate Starts for xkcd_38:

(Start: 180 @33304 has 162 MA's), (Start: 205 @33361 has 3 MA's), (221, 33394), (223, 33400), (254, 33454), (262, 33466),