

Pham 304670

1. Lakshmi_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
2. Misaeng_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
3. Fluke_6 + 6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
4. Scuttle_6 + 4	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
5. Suppl_6 + 1	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
6. DreamTeam_3 + 3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
7. Chrdison_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
8. Maria1952_3 + 3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
9. Bennie_3 + 2	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
10. Rivina_3 + 3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
11. DrRobert_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
12. Albanese_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
13. MrGloopy_6 + 4	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
14. Uria_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
15. Lennox_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
16. Christian_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
17. Nancia_3 + 4	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
18. Zorro_6 + 2	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
19. PartyCup_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
20. GreenHearts_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
21. Makoto_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
22. Kittykat_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
23. ChewChew_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
24. Joann_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
25. Nubia_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
26. Litotes_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
27. Lucy_3 + 2	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
28. AustinPowers_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
29. Moki_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
30. PinkFriday_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
31. Pumancara_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
32. HunterDaile_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
33. MrBoss_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
34. Graynor_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
35. WonderBoy_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
36. Huntingdon_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
37. Greenhouse_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
38. Jumboset_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
39. MamaPearl_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
40. CailleO'Malley_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
41. Oxymrius_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
42. BigMack_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
43. Wayne_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
44. OurGinNessie_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
45. Rozby_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
46. Preamble_3	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
47. Abidatro_5	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
48. Amanises_6 + 6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
49. Chicken_5 + 2	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373
50. Ruchi_6	20	20	86	92	100	100	114	120	138	152	161	170	175	189	205	210	225	230	281	288	305	310	344	361	373

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51: Jamun_5	70	47	88	76	85	107	142	152	165	175	188	201	222	230	236	248	279	306
52: Chickaboom_4 +	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
53: vulpecula_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
54: Galaxy_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
55: Brynrite_5 + 1	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
56: TaylorSipht_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
57: Eesa_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
58: Westrich_6	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
59: Amelia_6 + 7	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
60: Zhuangyuan_6	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
61: Cygnet_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
62: OtsoOtso_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
63: Antrice_6	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
64: LittleTokyo_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
65: Kuleana_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
66: GramZayde_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
67: Bibble12_6 + 1	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
68: PhirstandPhine_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
69: AmiC124_4 + 4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
70: DanHam62_4 + 4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
71: Raitail_4 + 2	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
72: Andrew_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
73: AlexiMimion_4 +	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
74: Amphitrite_4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
75: Rennaf12_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
76: Babushka_4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
77: Atlantica_4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
78: B3_4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
79: E1_4 + 1	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
80: PFR1_U3 + 1	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
81: Mandia_3	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
82: Applejacks_3	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
83: Puppies_3	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
84: Widow_3	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
85: Icaran_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
86: Avocadoman	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
87: Kieran_4 + 1	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
88: Loviatar_4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
89: SanaSana_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
90: Stoor_4 + 3	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
91: FlameThrower_5 + 8	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
92: CanFranViach_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
93: Jabd_4 + 2	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
94: Lynien_4 + 3	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
95: Vitas_3 + 6	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
96: Johnathan_4	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
97: CimHanger_5	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
98: Omecat_4 + 1	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
99: Dismas_4 + 3	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306
100: Diodgendoo_5 + 1	70	53	88	70	88	107	142	152	165	175	188	201	222	230	236	248	279	306

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 304670 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304670 has 275 members, 38 are drafts.

Phages represented in each track:

- Track 1 : Lakshmi_6
- Track 2 : Misaeng_6
- Track 3 : Fluke_6, Carpal_6, Riverdale_6, TattModd_6, Vallejo_6, Savage2526_6, Beethoven_6
- Track 4 : Scuttle_6, BrotherBLo_6, Korra_6, Kalizoi_6, Immaculata_6
- Track 5 : Suppi_6, Canowicakte_6
- Track 6 : DreamTeam_3, Gisselle_3
- Track 7 : Chridison_3
- Track 8 : Maria1952_3, KingBob_3, Sergei_3, Temper16_3, Daiboju_3, Herb_3
- Track 9 : Bennie_3, HeadNerd_3, Huckleberry_3
- Track 10 : Riovina_3, OMalley_3, Eunoia_3, Aledel_3
- Track 11 : DrRobert_3
- Track 12 : Albanese_6
- Track 13 : MrGloopy_6, Cholula_6, RAP15_6, MeganNoll_6, Wawa_6, Potatoes_6
- Track 14 : Urla_3
- Track 15 : Lennox_3
- Track 16 : Christian_3
- Track 17 : Nancia_3, Lasagna_3, Bodacious_3, CristinaYang_3, LilStuart_3
- Track 18 : Zorro_6, Dino_6, Glenn_6
- Track 19 : PartyCup_6
- Track 20 : GreenHearts_6
- Track 21 : Makoto_3
- Track 22 : Kittykat_3
- Track 23 : ChewChew_3
- Track 24 : Joann_6
- Track 25 : Nubia_6
- Track 26 : Litotes_6
- Track 27 : Lucy_3, PitaDog_3, Pterodactyl_3
- Track 28 : AustinPowers_3
- Track 29 : Moki_3
- Track 30 : PinkFriday_3
- Track 31 : Pumancara_3, Supakev_3
- Track 32 : HunterDalle_3, Vulture_3
- Track 33 : MrBoss_6
- Track 34 : Graynor_6
- Track 35 : WonderBoy_3
- Track 36 : Huntingdon_6, RcigaStruga_6

- Track 37 : Greenhouse_6
- Track 38 : Jumboset_6
- Track 39 : MamaPearl_3, EstebanJulior_3
- Track 40 : CallieOMalley_6, AppleCider_6
- Track 41 : Oxynfrius_6
- Track 42 : BigMack_3
- Track 43 : Wayne_6
- Track 44 : OurGirlNessie_3
- Track 45 : Rozby_6
- Track 46 : Preamble_3
- Track 47 : Abidatro_5
- Track 48 : Amanises_6, Pelletreau_6, KendraB23_6, Orcanus_5, Toad24_6, Gravel_6, Shen_6
- Track 49 : Chicken_5, Niblet_5, Zixiang_5
- Track 50 : Ruchi_5
- Track 51 : Jamun_5
- Track 52 : Chickaboom_4, WileyE_4
- Track 53 : Vulpecula_5
- Track 54 : Galaxy_5
- Track 55 : Brynnie_5, Basilisk_5
- Track 56 : TaylorSipht_5
- Track 57 : Eesa_5
- Track 58 : Westrich_6
- Track 59 : Amelia_6, Jerole_6, Cote_6, Lunar_6, Pineda_6, Melons_6, Bedetta_6, Damocles_6
- Track 60 : Zhuangyuan_6
- Track 61 : Cygnet_5
- Track 62 : OtsoOtso_5, Coral_5, Daob_6, Kepler_5, Polka_5, Colusalem_5
- Track 63 : Antrice_5
- Track 64 : LittleTokyo_5
- Track 65 : Kuleana_5
- Track 66 : GramZayde_5
- Track 67 : Bibble12_6, HannahPhantana_6
- Track 68 : PhirstandPhine_6
- Track 69 : AmiCi24_4, Oppalora_4, Camara_4, KHumphrey_4, Glotell_4
- Track 70 : DanHam62_4, Fingolfin_4, PhluffyCoco_4, HamCheese_4, Juno112_4, Laphuphu24k_4, AdoptaAdorbs_4, RedFox_4
- Track 71 : Rattail_4, Azaz_4, Leona_4
- Track 72 : Andrew_5
- Track 73 : AlexMinion_4, StuartMinion_4
- Track 74 : Amphitrite_4
- Track 75 : Renna12_5
- Track 76 : Babushka_4
- Track 77 : Atlantica_4
- Track 78 : B3_4
- Track 79 : E1_4, Anatole_4
- Track 80 : PFR1_03, PFR2_03
- Track 81 : Mahdia_3
- Track 82 : Applejacks_3
- Track 83 : Puppies_3
- Track 84 : Widow_3
- Track 85 : Icarian_5

- Track 86 : Avocadoman_4, CroZenni_4, Doobus_4, Finalfrontier_5, Burritobowl_4, AylexOG_5, Swervy_4, TukTuk_4, Albright_4, BelmontSKP_5, Abigail_4, Solea_5, LimaBean_4, Arroyo_5, SarBear_4, PhigPhack_4, Bengal_4, Cashington_4, Milomuff_5, AnnaLie_5, DickRichards_4
- Track 87 : Kieran_4, Sharkboy_4
- Track 88 : Loviatar_4
- Track 89 : SanaSana_5
- Track 90 : Stoor_4, BabyYoda_4, Stromboli_4, DirtyBubble_4
- Track 91 : FlameThrower_4, Bachaco_4, Celaena_4, Katzastrophic_4
- Track 92 : CanFranMach_4
- Track 93 : Jabb_4, CupcakePrincess_4, MsUbiquitous_4
- Track 94 : Lynlen_4, SirBeanington_4, Kenzers_4, SansAfet_4
- Track 95 : Vitas_3, Clayda5_3, Bernstein_3, Brahms_3, Rollins_3, Coltrane_3, Skylord_3
- Track 96 : Johnathan_4
- Track 97 : CliffHanger_5
- Track 98 : Olliecat_4, Squircle_4
- Track 99 : Dismas_4, ChiliPepper_4, Rona_4, Kamdara_4
- Track 100 : Didgeridoo_5, BabyDaisy_5
- Track 101 : Buldak_4
- Track 102 : WalkingDead_4
- Track 103 : Softsoap_4
- Track 104 : Shayna_3
- Track 105 : IndyLu_4, Kate33_4
- Track 106 : PondAmelia_6
- Track 107 : Albedo_4
- Track 108 : Jovita_4
- Track 109 : Franklin22_3
- Track 110 : Nicky22_5
- Track 111 : AvGardian_4
- Track 112 : Pecas_4, Eula_4, QMacho_5
- Track 113 : Phisb_4, BubbaBear_4
- Track 114 : Armstrong_3
- Track 115 : Slay_4
- Track 116 : Elva_5
- Track 117 : Teagster_3, SunnyD_3
- Track 118 : BAjuniper_4
- Track 119 : Lahqtemish_4
- Track 120 : Eden_3
- Track 121 : Lilo27_4
- Track 122 : PastaFagioli_4
- Track 123 : Akino08_4
- Track 124 : Quenya_5
- Track 125 : Gack_3
- Track 126 : Alatato_3
- Track 127 : JeanClaude_4
- Track 128 : Rooter_4
- Track 129 : Shoya_3
- Track 130 : Kumotta_4
- Track 131 : MargaretKali_5
- Track 132 : Gibbzilla_5
- Track 133 : Pigu_4
- Track 134 : BrayBeast_4

- Track 135 : Sarge_4
- Track 136 : Maja_4
- Track 137 : Hereford_6, Morrey_7, EvenBluerMoon_5, Aoka_5, PrairieDogTown_5
- Track 138 : CocoCinnamon_7
- Track 139 : JanetJ_5
- Track 140 : NoSwimming_6, Scotia_6
- Track 141 : Khuang_3
- Track 142 : Altostratus_3
- Track 143 : Elener_5

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

The start number called the most often in the published annotations is 20, it was called in 86 of the 237 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Albanese_6, Aledel_3, AppleCider_6, Applejacks_3, AustinPowers_3, Beethoven_6, Bennie_3, BigMack_3, Bodacious_3, BrotherBLo_6, CallieOMalley_6, Canowicakte_6, Carpal_6, ChewChew_3, Cholula_6, Chridison_3, Christian_3, CristinaYang_3, Daiboju_3, Dino_6, DrRobert_3, DreamTeam_3, EstebanJulior_3, Eunoia_3, Fluke_6, Gisselle_3, Glenn_6, Graynor_6, GreenHearts_6, Greenhouse_6, HeadNerd_3, Herb_3, Huckleberry_3, HunterDalle_3, Huntingdon_6, Immaculata_6, Joann_6, Kalizoi_6, KingBob_3, Kittykat_3, Korra_6, Lakshmi_6, Lasagna_3, Lennox_3, LilStuart_3, Litotes_6, Lucy_3, Mahdia_3, Makoto_3, MamaPearl_3, Maria1952_3, MeganNoll_6, Misaeng_6, Moki_3, MrBoss_6, MrGloopy_6, Nancia_3, Nubia_6, OMalley_3, OurGirlNessie_3, Oxynfrius_6, PartyCup_6, PinkFriday_3, PitaDog_3, Potatoes_6, Preamble_3, Pterodactyl_3, Pumancara_3, Puppies_3, RAP15_6, RcigaStruga_6, Riovina_3, Riverdale_6, Rozby_6, Savage2526_6, Scuttle_6, Sergei_3, Supakev_3, Suppi_6, TattModd_6, Temper16_3, Urla_3, Vallejo_6, Vulture_3, Wawa_6, Wayne_6, Widow_3, WonderBoy_3, Zorro_6,

Genes that have the "Most Annotated" start but do not call it:

- Alatato_3, Jumboset_6, Kumotta_4,

Genes that do not have the "Most Annotated" start:

- Abidatro_5, Abigail_4, AdoptaAdorbs_4, Akino08_4, Albedo_4, Albright_4, AlexMinion_4, Altostratus_3, Amanises_6, Amelia_6, AmiCi24_4, Amphitrite_4, Anatole_4, Andrew_5, AnnaLie_5, Antrice_5, Aoka_5, Armstrong_3, Arroyo_5, Atlantica_4, AvGardian_4, Avocadoman_4, AylexOG_5, Azaz_4, B3_4, BAJuniper_4, Babushka_4, BabyDaisy_5, BabyYoda_4, Bachaco_4, Basilisk_5, Bedetta_6, BelmontSKP_5, Bengal_4, Bernstein_3, Bibble12_6, Brahms_3, BrayBeast_4, Brynnie_5, BubbaBear_4, Buldak_4, Burritobowl_4, Camara_4, CanFranMach_4, Cashington_4, Celaena_4, Chickaboom_4, Chicken_5, ChiliPepper_4, Clayda5_3, CliffHanger_5, CocoCinnamon_7, Coltrane_3, Colusalem_5, Coral_5, Cote_6, CroZenni_4, CupcakePrincess_4, Cygnet_5, Damocles_6, DanHam62_4, Daob_6, DickRichards_4, Didgeridoo_5, DirtyBubble_4, Dismas_4, Doobus_4, E1_4, Eden_3, Eesa_5, Elener_5, Elva_5, Eula_4, EvenBluerMoon_5, Finalfrontier_5, Fingolfin_4, FlameThrower_4, Franklin22_3, Gack_3, Galaxy_5, Gibbzilla_5, Glotell_4, GramZayde_5, Gravel_6, HamCheese_4, HannahPhantana_6, Hereford_6, Icarian_5, IndyLu_4, Jabb_4, Jamun_5, JanetJ_5, JeanClaude_4, Jerole_6,

Johnathan_4, Jovita_4, Juno112_4, KHumphrey_4, Kamdara_4, Kate33_4, Katzastrophic_4, KendraB23_6, Kenzers_4, Kepler_5, Khuang_3, Kieran_4, Kuleana_5, Lahqtemish_4, Laphuphu24k_4, Leona_4, Lilo27_4, LimaBean_4, LittleTokyo_5, Loviatar_4, Lunar_6, Lynlen_4, Maja_4, MargaretKali_5, Melons_6, Milomuff_5, Morrey_7, MsUbiquitous_4, Niblet_5, Nicky22_5, NoSwimming_6, Olliecat_4, Oppalora_4, Orcanus_5, OtsoOtso_5, PFR1_03, PFR2_03, PastaFagioli_4, Pecas_4, Pelletreau_6, PhigPhack_4, PhirstandPhine_6, Phisb_4, PhluffyCoco_4, Pigu_4, Pineda_6, Polka_5, PondAmelia_6, PrairieDogTown_5, QMacho_5, Quenya_5, Rattail_4, RedFox_4, Renna12_5, Rollins_3, Rona_4, Rooter_4, Ruchi_5, SanaSana_5, SansAfet_4, SarBear_4, Sarge_4, Scotia_6, Sharkboy_4, Shayna_3, Shen_6, Shoya_3, SirBeanington_4, Skylord_3, Slay_4, Softsoap_4, Solea_5, Squirrel_4, Stoor_4, Stromboli_4, StuartMinion_4, SunnyD_3, Swervy_4, TaylorSipt_5, Teagster_3, Toad24_6, TukTuk_4, Vitas_3, Vulpecula_5, WalkingDead_4, Westrich_6, WileyE_4, Zhuangyuan_6, Zixiang_5,

Summary by start number:

Start 13:

- Found in 5 of 275 (1.8%) of genes in pham
- No Manual Annotations of this start.
- Called 40.0% of time when present
- Phage (with cluster) where this start called: PFR1_03 (BX), PFR2_03 (BX),

Start 15:

- Found in 2 of 275 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 237
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Altostratus_3 (FS),

Start 16:

- Found in 91 of 275 (33.1%) of genes in pham
- Manual Annotations of this start: 80 of 237
- Called 98.9% of time when present
- Phage (with cluster) where this start called: Abigail_4 (EB), Akino08_4 (EB), Albedo_4 (EB), Albright_4 (EB), AnnaLie_5 (EB), Armstrong_3 (EB), Arroyo_5 (EB), AvGardian_4 (EB), Avocadoman_4 (EB), AylexOG_5 (EB), BAjuniper_4 (EB), BabyDaisy_5 (EB), BabyYoda_4 (EB), Bachaco_4 (EB), BelmontSKP_5 (EB), Bengal_4 (EB), Bernstein_3 (EB), Brahms_3 (EB), BubbaBear_4 (EB), Buldak_4 (EB), Burritobowl_4 (EB), CanFranMach_4 (EB), Cashington_4 (EB), Celaena_4 (EB), ChiliPepper_4 (EB), Clayda5_3 (EB), CliffHanger_5 (EB), Coltrane_3 (EB), CroZenni_4 (EB), CupcakePrincess_4 (EB), DickRichards_4 (EB), Didgeridoo_5 (EB), DirtyBubble_4 (EB), Dismas_4 (EB), Doobus_4 (EB), Eden_3 (EB), Elva_5 (EB), Eula_4 (EB), Finalfrontier_5 (EB), FlameThrower_4 (EB), Franklin22_3 (EB), Gack_3 (EB), Icarian_5 (EB), IndyLu_4 (EB), Jabb_4 (EB), Johnathan_4 (EB), Jovita_4 (EB), Kamdara_4 (EB), Kate33_4 (EB), Katzastrophic_4 (EB), Kenzers_4 (EB), Khuang_3 (FS), Kieran_4 (EB), Lahqtemish_4 (EB), Lilo27_4 (EB), LimaBean_4 (EB), Loviatar_4 (EB), Lynlen_4 (EB), Milomuff_5 (EB), MsUbiquitous_4 (EB), Nicky22_5 (EB), Olliecat_4 (EB), PastaFagioli_4 (EB), Pecas_4 (EB), PhigPhack_4 (EB), Phisb_4 (EB), PondAmelia_6 (EB), QMacho_5 (EB), Quenya_5 (EB), Rollins_3 (EB), Rona_4 (EB), SanaSana_5 (EB), SansAfet_4 (EB), SarBear_4 (EB), Sharkboy_4 (EB), Shayna_3 (EB), SirBeanington_4 (EB), Skylord_3 (EB), Slay_4 (EB), Softsoap_4 (EB), Solea_5 (EB), Squirrel_4 (EB), Stoor_4 (EB), Stromboli_4 (EB), SunnyD_3 (EB), Swervy_4 (EB), Teagster_3 (EB), TukTuk_4 (EB), Vitas_3

(EB), WalkingDead_4 (EB),

Start 17:

- Found in 2 of 275 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 237
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoSwimming_6 (FO), Scotia_6 (FO),

Start 20:

- Found in 92 of 275 (33.5%) of genes in pham
- Manual Annotations of this start: 86 of 237
- Called 96.7% of time when present
- Phage (with cluster) where this start called: Albanese_6 (AK), Aledel_3 (AK), AppleCider_6 (AK), Applejacks_3 (CD), AustinPowers_3 (AK), Beethoven_6 (AK), Bennie_3 (AK), BigMack_3 (AK), Bodacious_3 (AK), BrotherBLo_6 (AK), CallieOMalley_6 (AK), Canowicakte_6 (AK), Carpal_6 (AK), ChewChew_3 (AK), Cholula_6 (AK), Chridison_3 (AK), Christian_3 (AK), CristinaYang_3 (AK), Daiboju_3 (AK), Dino_6 (AK), DrRobert_3 (AK), DreamTeam_3 (AK), EstebanJulior_3 (AK), Eunoia_3 (AK), Fluke_6 (AK), Gisselle_3 (AK), Glenn_6 (AK), Graynor_6 (AK), GreenHearts_6 (AK), Greenhouse_6 (AK), HeadNerd_3 (AK), Herb_3 (AK), Huckleberry_3 (AK), HunterDalle_3 (AK), Huntingdon_6 (AK), Immaculata_6 (AK), Joann_6 (AK), Kalizoi_6 (AK), KingBob_3 (AK), Kittykat_3 (AK), Korra_6 (AK), Lakshmi_6 (AK), Lasagna_3 (AK), Lennox_3 (AK), LilStuart_3 (AK), Litotes_6 (AK), Lucy_3 (AK), Mahdia_3 (CD), Makoto_3 (AK), MamaPearl_3 (AK), Maria1952_3 (AK), MeganNoll_6 (AK), Misaeng_6 (AK), Moki_3 (AK), MrBoss_6 (AK), MrGloopy_6 (AK), Nancia_3 (AK), Nubia_6 (AK), OMalley_3 (AK), OurGirlNessie_3 (AK), Oxyntrius_6 (AK), PartyCup_6 (AK), PinkFriday_3 (AK), PitaDog_3 (AK), Potatoes_6 (AK), Preamble_3 (AK), Pterodactyl_3 (AK), Pumancara_3 (AK), Puppies_3 (CD), RAP15_6 (AK), RcigaStruga_6 (AK), Riovina_3 (AK), Riverdale_6 (AK), Rozby_6 (AK), Savage2526_6 (AK), Scuttle_6 (AK), Sergei_3 (AK), Supakev_3 (AK), Suppi_6 (AK), TattModd_6 (AK), Temper16_3 (AK), Urla_3 (AK), Vallejo_6 (AK), Vulture_3 (AK), Wawa_6 (AK), Wayne_6 (AK), Widow_3 (CD), WonderBoy_3 (AK), Zorro_6 (AK),

Start 21:

- Found in 2 of 275 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 237
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rooter_4 (FB), Shoya_3 (FB),

Start 23:

- Found in 1 of 275 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pigu_4 (FB),

Start 25:

- Found in 3 of 275 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 237
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Alatato_3 (FB), Kumotta_4 (FB),

Start 29:

- Found in 151 of 275 (54.9%) of genes in pham
- Manual Annotations of this start: 64 of 237
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Abidatro_5 (AS1), AdoptaAdorbs_4 (AS3), AlexMinion_4 (AS3), Amanises_6 (AS1), Amelia_6 (AS2), AmiCi24_4 (AS3), Amphitrite_4 (AS3), Anatole_4 (BV), Andrew_5 (AS3), Antrice_5 (AS2), Aoka_5 (FO), Atlantica_4 (AS3), Azaz_4 (AS3), B3_4 (BV), Babushka_4 (AS3), Basilisk_5 (AS1), Bedetta_6 (AS2), Bibble12_6 (AS2), BrayBeast_4 (FB), Brynnie_5 (AS1), Camara_4 (AS3), Chickaboom_4 (AS1), Chicken_5 (AS1), CocoCinnamon_7 (FO), Colusalem_5 (AS2), Coral_5 (AS2), Cote_6 (AS2), Cygnet_5 (AS2), Damocles_6 (AS2), DanHam62_4 (AS3), Daob_6 (AS2), E1_4 (BV), Eesa_5 (AS1), EvenBluerMoon_5 (FO), Fingolfin_4 (AS3), Galaxy_5 (AS1), Glotell_4 (AS3), GramZayde_5 (AS2), Gravel_6 (AS1), HamCheese_4 (AS3), HannahPhantana_6 (AS2), Hereford_6 (FO), Jamun_5 (AS1), JanetJ_5 (FO), JeanClaude_4 (FB), Jerole_6 (AS2), Jumboset_6 (AK), Juno112_4 (AS3), KHumphrey_4 (AS3), KendraB23_6 (AS1), Kepler_5 (AS2), Kuleana_5 (AS2), Laphuphu24k_4 (AS3), Leona_4 (AS3), LittleTokyo_5 (AS2), Lunar_6 (AS2), Maja_4 (FO), MargaretKali_5 (FB), Melons_6 (AS2), Morrey_7 (FO), Niblet_5 (AS1), Oppalora_4 (AS3), Orcanus_5 (AS1), OtsoOtso_5 (AS2), Pelletreau_6 (AS1), PhirstandPhine_6 (AS2), PhluffyCoco_4 (AS3), Pineda_6 (AS2), Polka_5 (AS2), PrairieDogTown_5 (FO), Rattail_4 (AS3), RedFox_4 (AS3), Renna12_5 (AS3), Ruchi_5 (AS1), Sarge_4 (FB), Shen_6 (AS1), StuartMinion_4 (AS3), TaylorSipht_5 (AS1), Toad24_6 (AS1), Vulpecula_5 (AS1), Westrich_6 (AS1), WileyE_4 (AS1), Zhuangyuan_6 (AS2), Zixiang_5 (AS1),

Start 38:

- Found in 27 of 275 (9.8%) of genes in pham
- Manual Annotations of this start: 1 of 237
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Elener_5 (singleton),

Start 86:

- Found in 64 of 275 (23.3%) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Gibbzilla_5 (FB),

Summary by clusters:

There are 12 clusters represented in this pham: AS3, AS2, AS1, FS, AK, BV, EB, FB, singleton, CD, BX, FO,

Info for manual annotations of cluster AK:

- Start number 20 was manually annotated 83 times for cluster AK.
- Start number 29 was manually annotated 1 time for cluster AK.

Info for manual annotations of cluster AS1:

- Start number 29 was manually annotated 17 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 29 was manually annotated 17 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 29 was manually annotated 16 times for cluster AS3.

Info for manual annotations of cluster BV:

- Start number 29 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster CD:

- Start number 20 was manually annotated 3 times for cluster CD.

Info for manual annotations of cluster EB:

- Start number 16 was manually annotated 80 times for cluster EB.

Info for manual annotations of cluster FB:

- Start number 21 was manually annotated 1 time for cluster FB.
- Start number 25 was manually annotated 2 times for cluster FB.
- Start number 29 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FO:

- Start number 17 was manually annotated 2 times for cluster FO.
- Start number 29 was manually annotated 7 times for cluster FO.

Info for manual annotations of cluster FS:

- Start number 15 was manually annotated 1 time for cluster FS.

Gene Information:

Gene: Abidatro_5 Start: 2692, Stop: 4635, Start Num: 29

Candidate Starts for Abidatro_5:

(Start: 29 @2692 has 64 MA's), (63, 2824), (65, 2836), (78, 2929), (89, 2980), (117, 3085), (118, 3088), (142, 3175), (157, 3274), (175, 3454), (190, 3559), (192, 3568), (193, 3571), (204, 3649), (207, 3667), (208, 3670), (222, 3736), (230, 3796), (233, 3820), (243, 3862), (245, 3874), (279, 4018), (288, 4060), (306, 4153), (319, 4246), (323, 4270), (363, 4510), (373, 4594), (377, 4621),

Gene: Abigail_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for Abigail_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (65, 2527), (78, 2620), (100, 2719), (125, 2812), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (185, 3229), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: AdoptaAdorbs_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for AdoptaAdorbs_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Akino08_4 Start: 2588, Stop: 4603, Start Num: 16

Candidate Starts for Akino08_4:

(5, 2465), (7, 2513), (Start: 16 @2588 has 80 MA's), (22, 2615), (24, 2618), (49, 2693), (60, 2729), (64, 2774), (65, 2777), (76, 2855), (86, 2903), (100, 2969), (129, 3074), (150, 3185), (158, 3242), (160, 3269), (175, 3401), (176, 3407), (185, 3476), (190, 3506), (192, 3515), (198, 3563), (203, 3593), (230,

3746), (245, 3824), (346, 4343), (358, 4406), (363, 4472), (370, 4538), (373, 4556),

Gene: Alata_3 Start: 1789, Stop: 3738, Start Num: 25

Candidate Starts for Alata_3:

(Start: 20 @1777 has 86 MA's), (Start: 25 @1789 has 2 MA's), (Start: 29 @1807 has 64 MA's), (35, 1837), (41, 1852), (55, 1888), (62, 1918), (64, 1948), (86, 2077), (105, 2164), (110, 2179), (120, 2218), (145, 2332), (149, 2353), (156, 2398), (158, 2413), (159, 2434), (175, 2572), (180, 2617), (189, 2665), (190, 2677), (198, 2731), (201, 2749), (203, 2761), (212, 2806), (230, 2917), (233, 2941), (246, 3001), (259, 3067), (271, 3106), (277, 3130), (280, 3139), (288, 3175), (289, 3178), (291, 3190), (311, 3298), (312, 3307), (315, 3334), (319, 3364), (323, 3388), (341, 3463), (348, 3496), (354, 3529), (355, 3532),

Gene: Albanese_6 Start: 4716, Stop: 6734, Start Num: 20

Candidate Starts for Albanese_6:

(Start: 20 @4716 has 86 MA's), (39, 4782), (66, 4893), (91, 5037), (92, 5040), (99, 5076), (100, 5079), (114, 5130), (126, 5181), (129, 5190), (138, 5226), (153, 5310), (155, 5331), (161, 5379), (170, 5445), (175, 5511), (190, 5616), (191, 5619), (205, 5709), (210, 5736), (224, 5826), (225, 5829), (230, 5856), (281, 6111), (288, 6144), (305, 6240), (310, 6267), (344, 6468), (363, 6609), (364, 6624), (373, 6693),

Gene: Albedo_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for Albedo_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (299, 3844), (346, 4081), (358, 4144), (363, 4210),

Gene: Albright_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for Albright_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (65, 2527), (78, 2620), (100, 2719), (125, 2812), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (185, 3229), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: Aledel_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for Aledel_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (134, 2511), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (209, 3030), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (310, 3573), (319, 3642), (344, 3774), (355, 3822), (363, 3915), (364, 3930), (373, 3999),

Gene: AlexMinion_4 Start: 2342, Stop: 4264, Start Num: 29

Candidate Starts for AlexMinion_4:

(Start: 29 @2342 has 64 MA's), (45, 2396), (63, 2471), (65, 2483), (73, 2537), (89, 2627), (101, 2681), (142, 2816), (157, 2915), (175, 3095), (177, 3104), (190, 3200), (191, 3203), (193, 3212), (204, 3290), (216, 3347), (230, 3437), (233, 3461), (243, 3503), (245, 3515), (252, 3581), (279, 3656), (288, 3698), (290, 3710), (306, 3791), (308, 3803), (319, 3884), (323, 3908), (339, 3974), (359, 4088), (363, 4139), (364, 4154), (371, 4208),

Gene: Altostratus_3 Start: 1985, Stop: 3505, Start Num: 15

Candidate Starts for Altostratus_3:

(13, 1979), (14, 1982), (Start: 15 @1985 has 1 MA's), (Start: 16 @1991 has 80 MA's), (42, 2072), (51, 2090), (62, 2132), (64, 2162), (78, 2255), (92, 2318), (118, 2411), (128, 2456), (162, 2648), (169, 2708), (175, 2774), (180, 2819), (189, 2867), (190, 2879), (192, 2888), (195, 2915), (202, 2960), (204, 2969), (212, 3005), (224, 3086), (225, 3089), (237, 3158), (269, 3323), (282, 3389), (293, 3446), (297, 3476), (298, 3479),

Gene: Amanises_6 Start: 2893, Stop: 4863, Start Num: 29

Candidate Starts for Amanises_6:

(Start: 29 @2893 has 64 MA's), (65, 3037), (85, 3169), (89, 3196), (92, 3208), (104, 3259), (108, 3271), (109, 3274), (111, 3280), (117, 3301), (142, 3391), (157, 3490), (175, 3670), (177, 3679), (190, 3775), (191, 3778), (193, 3787), (201, 3847), (204, 3865), (207, 3883), (222, 3952), (230, 4012), (233, 4036), (243, 4078), (245, 4090), (266, 4204), (279, 4252), (288, 4294), (319, 4480), (332, 4540), (339, 4573), (352, 4633), (363, 4738), (371, 4807), (373, 4822), (375, 4843),

Gene: Amelia_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Amelia_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: AmiCi24_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for AmiCi24_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (349, 4012), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Amphitrite_4 Start: 2333, Stop: 4252, Start Num: 29

Candidate Starts for Amphitrite_4:

(Start: 29 @2333 has 64 MA's), (45, 2387), (63, 2462), (65, 2474), (73, 2528), (76, 2552), (89, 2618), (101, 2672), (117, 2720), (118, 2723), (142, 2807), (157, 2906), (168, 3017), (175, 3086), (177, 3095), (190, 3191), (191, 3194), (193, 3203), (204, 3281), (207, 3299), (216, 3338), (230, 3428), (233, 3452), (243, 3494), (245, 3506), (279, 3644), (288, 3686), (300, 3758), (319, 3872), (323, 3896), (339, 3962), (341, 3971), (352, 4022), (359, 4076), (363, 4127), (364, 4142), (371, 4196),

Gene: Anatole_4 Start: 2800, Stop: 4233, Start Num: 29

Candidate Starts for Anatole_4:

(8, 2701), (11, 2725), (Start: 29 @2800 has 64 MA's), (32, 2809), (41, 2842), (46, 2851), (58, 2884), (64, 2938), (67, 2962), (69, 2977), (73, 2995), (86, 3067), (92, 3097), (118, 3199), (128, 3244), (133, 3262), (140, 3289), (147, 3328), (148, 3334), (149, 3343), (151, 3352), (154, 3376), (167, 3490), (175, 3559), (176, 3565), (181, 3610), (190, 3664), (198, 3718), (202, 3745), (214, 3802), (224, 3871), (225, 3874), (230, 3901), (242, 3964), (243, 3967), (245, 3979), (253, 4045), (270, 4102), (281, 4150), (292, 4204),

Gene: Andrew_5 Start: 2705, Stop: 4642, Start Num: 29

Candidate Starts for Andrew_5:

(Start: 29 @2705 has 64 MA's), (45, 2759), (63, 2834), (73, 2900), (78, 2939), (89, 2990), (101, 3044), (117, 3092), (123, 3116), (157, 3281), (175, 3461), (177, 3470), (190, 3566), (191, 3569), (193, 3578), (201, 3638), (204, 3656), (216, 3713), (230, 3803), (233, 3827), (235, 3836), (245, 3881), (288, 4067), (319, 4253), (323, 4277), (339, 4352), (352, 4412), (359, 4466), (363, 4517), (364, 4532),

Gene: AnnaLie_5 Start: 2675, Stop: 4699, Start Num: 16

Candidate Starts for AnnaLie_5:

(Start: 16 @2675 has 80 MA's), (24, 2708), (58, 2816), (60, 2825), (64, 2870), (65, 2873), (78, 2966), (100, 3065), (125, 3158), (143, 3233), (158, 3341), (160, 3368), (175, 3500), (176, 3506), (185, 3575),

(190, 3605), (198, 3659), (205, 3698), (230, 3842), (245, 3920), (346, 4439), (358, 4502), (363, 4568),

Gene: Antrice_5 Start: 2669, Stop: 4606, Start Num: 29

Candidate Starts for Antrice_5:

(6, 2513), (9, 2573), (10, 2579), (12, 2600), (13, 2603), (18, 2630), (19, 2633), (27, 2663), (Start: 29 @2669 has 64 MA's), (45, 2723), (64, 2807), (65, 2810), (80, 2909), (106, 3026), (119, 3068), (142, 3149), (152, 3218), (157, 3248), (175, 3428), (177, 3437), (190, 3533), (204, 3623), (222, 3710), (230, 3770), (233, 3794), (243, 3836), (244, 3842), (245, 3848), (261, 3941), (277, 3986), (280, 3995), (304, 4118), (306, 4124), (315, 4187), (319, 4217), (352, 4376), (362, 4445), (363, 4481), (371, 4550),

Gene: Aoka_5 Start: 3139, Stop: 5082, Start Num: 29

Candidate Starts for Aoka_5:

(Start: 29 @3139 has 64 MA's), (82, 3385), (91, 3433), (111, 3508), (116, 3526), (124, 3556), (157, 3718), (175, 3889), (190, 3994), (222, 4171), (230, 4231), (233, 4255), (235, 4264), (312, 4648), (319, 4705), (335, 4789), (348, 4840), (354, 4873),

Gene: AppleCider_6 Start: 4658, Stop: 6673, Start Num: 20

Candidate Starts for AppleCider_6:

(Start: 20 @4658 has 86 MA's), (28, 4685), (32, 4697), (Start: 38 @4718 has 1 MA's), (66, 4832), (72, 4874), (73, 4877), (86, 4949), (89, 4967), (92, 4979), (94, 4994), (99, 5015), (113, 5063), (114, 5069), (117, 5078), (126, 5120), (128, 5126), (138, 5165), (141, 5174), (142, 5177), (151, 5237), (155, 5270), (160, 5315), (161, 5318), (175, 5450), (190, 5555), (203, 5639), (205, 5648), (212, 5684), (215, 5696), (225, 5768), (230, 5795), (281, 6050), (289, 6086), (317, 6257), (319, 6275), (363, 6548), (373, 6632),

Gene: Applejacks_3 Start: 2099, Stop: 3511, Start Num: 20

Candidate Starts for Applejacks_3:

(Start: 20 @2099 has 86 MA's), (22, 2105), (24, 2108), (44, 2168), (64, 2246), (65, 2249), (67, 2270), (72, 2300), (76, 2327), (87, 2381), (127, 2576), (133, 2600), (141, 2627), (147, 2666), (148, 2672), (175, 2903), (178, 2918), (180, 2948), (185, 2978), (190, 3008), (193, 3020), (195, 3044), (198, 3062), (199, 3065), (209, 3125), (214, 3149), (217, 3164), (228, 3236), (229, 3248), (230, 3251), (281, 3503),

Gene: Armstrong_3 Start: 2170, Stop: 4221, Start Num: 16

Candidate Starts for Armstrong_3:

(Start: 16 @2170 has 80 MA's), (39, 2254), (49, 2284), (58, 2311), (60, 2320), (65, 2368), (90, 2515), (95, 2545), (155, 2803), (158, 2821), (160, 2848), (162, 2854), (175, 2980), (190, 3085), (192, 3094), (195, 3124), (198, 3142), (230, 3325), (243, 3391), (245, 3403), (288, 3637), (306, 3733), (341, 3937), (348, 3970), (349, 3976), (353, 3991), (357, 4012), (363, 4093), (370, 4159),

Gene: Arroyo_5 Start: 2799, Stop: 4823, Start Num: 16

Candidate Starts for Arroyo_5:

(Start: 16 @2799 has 80 MA's), (24, 2832), (58, 2940), (60, 2949), (64, 2994), (65, 2997), (78, 3090), (100, 3189), (125, 3282), (143, 3357), (158, 3465), (160, 3492), (175, 3624), (176, 3630), (185, 3699), (190, 3729), (198, 3783), (205, 3822), (230, 3966), (245, 4044), (346, 4563), (358, 4626), (363, 4692),

Gene: Atlantica_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for Atlantica_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: AustinPowers_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for AustinPowers_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (209, 3030), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (288, 3450), (310, 3573), (319, 3642), (333, 3708), (344, 3774), (355, 3822), (363, 3915), (364, 3930), (373, 3999),

Gene: AvGardian_4 Start: 2392, Stop: 4413, Start Num: 16

Candidate Starts for AvGardian_4:

(Start: 16 @2392 has 80 MA's), (57, 2530), (60, 2542), (64, 2587), (78, 2683), (100, 2782), (125, 2875), (142, 2944), (158, 3055), (160, 3082), (175, 3214), (176, 3220), (190, 3319), (198, 3373), (214, 3454), (230, 3556), (232, 3562), (245, 3634), (357, 4201), (358, 4216), (363, 4282), (370, 4348), (373, 4366),

Gene: Avocadoman_4 Start: 2387, Stop: 4411, Start Num: 16

Candidate Starts for Avocadoman_4:

(Start: 16 @2387 has 80 MA's), (24, 2420), (58, 2528), (60, 2537), (64, 2582), (65, 2585), (78, 2678), (100, 2777), (125, 2870), (143, 2945), (158, 3053), (160, 3080), (175, 3212), (176, 3218), (185, 3287), (190, 3317), (198, 3371), (205, 3410), (230, 3554), (245, 3632), (346, 4151), (358, 4214), (363, 4280),

Gene: AylexOG_5 Start: 2684, Stop: 4708, Start Num: 16

Candidate Starts for AylexOG_5:

(Start: 16 @2684 has 80 MA's), (24, 2717), (58, 2825), (60, 2834), (64, 2879), (65, 2882), (78, 2975), (100, 3074), (125, 3167), (143, 3242), (158, 3350), (160, 3377), (175, 3509), (176, 3515), (185, 3584), (190, 3614), (198, 3668), (205, 3707), (230, 3851), (245, 3929), (346, 4448), (358, 4511), (363, 4577),

Gene: Azaz_4 Start: 2383, Stop: 4302, Start Num: 29

Candidate Starts for Azaz_4:

(Start: 29 @2383 has 64 MA's), (45, 2437), (63, 2512), (65, 2524), (73, 2578), (89, 2668), (101, 2722), (117, 2770), (118, 2773), (142, 2857), (157, 2956), (163, 3013), (168, 3067), (175, 3136), (177, 3145), (190, 3241), (191, 3244), (193, 3253), (204, 3331), (216, 3388), (230, 3478), (233, 3502), (243, 3544), (245, 3556), (279, 3694), (288, 3736), (300, 3808), (319, 3922), (323, 3946), (339, 4012), (341, 4021), (352, 4072), (359, 4126), (363, 4177), (364, 4192), (371, 4246),

Gene: B3_4 Start: 2800, Stop: 4233, Start Num: 29

Candidate Starts for B3_4:

(8, 2701), (11, 2725), (Start: 29 @2800 has 64 MA's), (32, 2809), (41, 2842), (46, 2851), (58, 2884), (64, 2938), (67, 2962), (69, 2977), (73, 2995), (86, 3067), (92, 3097), (118, 3199), (128, 3244), (140, 3289), (147, 3328), (148, 3334), (149, 3343), (151, 3352), (154, 3376), (162, 3436), (175, 3559), (176, 3565), (181, 3610), (190, 3664), (198, 3718), (203, 3748), (214, 3802), (224, 3871), (225, 3874), (230, 3901), (242, 3964), (243, 3967), (245, 3979), (253, 4045), (270, 4102), (281, 4150), (292, 4204),

Gene: BAjuniper_4 Start: 2389, Stop: 4404, Start Num: 16

Candidate Starts for BAjuniper_4:

(Start: 16 @2389 has 80 MA's), (26, 2425), (60, 2530), (65, 2578), (76, 2656), (78, 2668), (86, 2701), (100, 2767), (149, 2971), (155, 3013), (158, 3031), (160, 3058), (175, 3190), (178, 3205), (190, 3295), (192, 3304), (195, 3334), (198, 3352), (203, 3382), (230, 3535), (234, 3562), (245, 3613), (247, 3640), (306, 3922), (315, 3985), (319, 4015), (336, 4093), (340, 4111), (348, 4153), (351, 4168), (357, 4195), (363, 4276), (370, 4342), (373, 4360),

Gene: Babushka_4 Start: 2382, Stop: 4301, Start Num: 29

Candidate Starts for Babushka_4:

(Start: 29 @2382 has 64 MA's), (45, 2436), (63, 2511), (65, 2523), (73, 2577), (89, 2667), (101, 2721), (117, 2769), (118, 2772), (141, 2853), (142, 2856), (157, 2955), (175, 3135), (177, 3144), (190, 3240),

(191, 3243), (193, 3252), (204, 3330), (216, 3387), (230, 3477), (233, 3501), (243, 3543), (245, 3555), (279, 3693), (288, 3735), (300, 3807), (323, 3945), (328, 3969), (339, 4011), (341, 4020), (359, 4125), (363, 4176), (364, 4191), (371, 4245),

Gene: BabyDaisy_5 Start: 2584, Stop: 4605, Start Num: 16

Candidate Starts for BabyDaisy_5:

(Start: 16 @2584 has 80 MA's), (60, 2734), (64, 2779), (65, 2782), (100, 2974), (125, 3067), (143, 3136), (158, 3244), (160, 3271), (175, 3403), (176, 3409), (190, 3508), (198, 3562), (205, 3601), (224, 3715), (230, 3745), (232, 3751), (245, 3823), (247, 3850), (251, 3898), (257, 3913), (286, 4033), (315, 4195), (357, 4393), (358, 4408), (363, 4474), (364, 4489), (368, 4522),

Gene: BabyYoda_4 Start: 2594, Stop: 4609, Start Num: 16

Candidate Starts for BabyYoda_4:

(Start: 16 @2594 has 80 MA's), (22, 2621), (24, 2624), (49, 2699), (60, 2735), (64, 2780), (65, 2783), (86, 2909), (100, 2975), (129, 3080), (143, 3140), (158, 3248), (160, 3275), (175, 3407), (176, 3413), (185, 3482), (190, 3512), (192, 3521), (198, 3569), (203, 3599), (230, 3752), (245, 3830), (332, 4289), (346, 4349), (358, 4412), (363, 4478),

Gene: Bachaco_4 Start: 2515, Stop: 4530, Start Num: 16

Candidate Starts for Bachaco_4:

(Start: 16 @2515 has 80 MA's), (22, 2542), (24, 2545), (35, 2587), (46, 2611), (58, 2647), (60, 2656), (64, 2701), (65, 2704), (66, 2713), (86, 2830), (96, 2890), (128, 2998), (150, 3103), (155, 3142), (158, 3160), (160, 3187), (162, 3193), (169, 3253), (175, 3319), (190, 3424), (191, 3427), (192, 3433), (195, 3463), (198, 3481), (220, 3595), (230, 3664), (235, 3697), (245, 3742), (286, 3961), (346, 4273), (357, 4321), (363, 4402), (368, 4450), (370, 4468),

Gene: Basilisk_5 Start: 2958, Stop: 4898, Start Num: 29

Candidate Starts for Basilisk_5:

(Start: 29 @2958 has 64 MA's), (53, 3030), (64, 3099), (65, 3102), (70, 3144), (76, 3180), (89, 3246), (92, 3258), (113, 3336), (117, 3351), (142, 3441), (157, 3540), (165, 3603), (175, 3720), (190, 3825), (192, 3834), (193, 3837), (201, 3897), (204, 3915), (207, 3933), (208, 3936), (222, 4002), (230, 4062), (233, 4086), (243, 4128), (245, 4140), (279, 4281), (288, 4323), (306, 4416), (319, 4509), (323, 4533), (359, 4722), (363, 4773), (364, 4788), (373, 4857), (377, 4884), (378, 4890),

Gene: Bedetta_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Bedetta_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: Beethoven_6 Start: 4660, Stop: 6669, Start Num: 20

Candidate Starts for Beethoven_6:

(Start: 20 @4660 has 86 MA's), (Start: 29 @4690 has 64 MA's), (62, 4786), (64, 4816), (66, 4828), (73, 4873), (92, 4975), (93, 4984), (100, 5014), (113, 5059), (114, 5065), (126, 5116), (138, 5161), (141, 5170), (151, 5233), (155, 5266), (160, 5311), (161, 5314), (175, 5446), (178, 5461), (187, 5530), (190, 5551), (193, 5563), (202, 5632), (205, 5644), (219, 5719), (225, 5764), (230, 5791), (255, 5944), (280, 6043), (281, 6046), (290, 6091), (304, 6172), (310, 6202), (317, 6253), (344, 6403), (363, 6544), (373, 6628),

Gene: BelmontSKP_5 Start: 2675, Stop: 4699, Start Num: 16

Candidate Starts for BelmontSKP_5:

(Start: 16 @2675 has 80 MA's), (24, 2708), (58, 2816), (60, 2825), (64, 2870), (65, 2873), (78, 2966), (100, 3065), (125, 3158), (143, 3233), (158, 3341), (160, 3368), (175, 3500), (176, 3506), (185, 3575), (190, 3605), (198, 3659), (205, 3698), (230, 3842), (245, 3920), (346, 4439), (358, 4502), (363, 4568),

Gene: Bengal_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for Bengal_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (65, 2527), (78, 2620), (100, 2719), (125, 2812), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (185, 3229), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: Bennie_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Bennie_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (92, 2334), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (134, 2508), (138, 2520), (141, 2529), (160, 2670), (175, 2805), (178, 2820), (180, 2850), (187, 2889), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: Bernstein_3 Start: 2230, Stop: 4281, Start Num: 16

Candidate Starts for Bernstein_3:

(Start: 16 @2230 has 80 MA's), (39, 2314), (49, 2344), (58, 2371), (60, 2380), (65, 2428), (90, 2575), (95, 2605), (96, 2611), (155, 2863), (158, 2881), (160, 2908), (162, 2914), (175, 3040), (190, 3145), (192, 3154), (195, 3184), (198, 3202), (230, 3385), (243, 3451), (245, 3463), (288, 3697), (306, 3793), (348, 4030), (349, 4036), (353, 4051), (357, 4072), (363, 4153), (370, 4219),

Gene: Bible12_6 Start: 2878, Stop: 4821, Start Num: 29

Candidate Starts for Bible12_6:

(Start: 29 @2878 has 64 MA's), (41, 2920), (53, 2950), (63, 3010), (65, 3022), (89, 3166), (92, 3178), (111, 3250), (142, 3361), (157, 3460), (175, 3640), (177, 3649), (181, 3691), (190, 3745), (191, 3748), (193, 3757), (204, 3835), (207, 3853), (222, 3922), (230, 3982), (233, 4006), (243, 4048), (245, 4060), (279, 4204), (288, 4246), (306, 4339), (315, 4402), (319, 4432), (323, 4456), (359, 4645), (363, 4696), (364, 4711), (371, 4765),

Gene: BigMack_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for BigMack_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (66, 2187), (73, 2232), (88, 2319), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (128, 2481), (134, 2508), (141, 2529), (151, 2592), (154, 2616), (160, 2670), (161, 2673), (175, 2805), (178, 2820), (190, 2910), (193, 2922), (205, 3003), (206, 3015), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (241, 3210), (245, 3228), (280, 3402), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: Bodacious_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Bodacious_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (56, 2118), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (99, 2370), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: Brahms_3 Start: 2170, Stop: 4221, Start Num: 16

Candidate Starts for Brahms_3:

(Start: 16 @2170 has 80 MA's), (39, 2254), (49, 2284), (58, 2311), (60, 2320), (65, 2368), (90, 2515), (95, 2545), (96, 2551), (155, 2803), (158, 2821), (160, 2848), (162, 2854), (175, 2980), (190, 3085),

(192, 3094), (195, 3124), (198, 3142), (230, 3325), (243, 3391), (245, 3403), (288, 3637), (306, 3733), (348, 3970), (349, 3976), (353, 3991), (357, 4012), (363, 4093), (370, 4159),

Gene: BrayBeast_4 Start: 2058, Stop: 3983, Start Num: 29

Candidate Starts for BrayBeast_4:

(Start: 29 @2058 has 64 MA's), (55, 2133), (78, 2292), (92, 2355), (99, 2391), (116, 2448), (123, 2475), (153, 2613), (159, 2673), (175, 2811), (177, 2820), (190, 2916), (207, 3024), (209, 3033), (222, 3093), (256, 3303), (277, 3372), (280, 3381), (291, 3432), (312, 3549), (313, 3555), (315, 3576), (323, 3630), (328, 3654), (339, 3699), (341, 3708), (348, 3741), (354, 3774), (359, 3810), (376, 3969),

Gene: BrotherBLo_6 Start: 4666, Stop: 6675, Start Num: 20

Candidate Starts for BrotherBLo_6:

(Start: 20 @4666 has 86 MA's), (Start: 29 @4696 has 64 MA's), (62, 4792), (64, 4822), (66, 4834), (73, 4879), (92, 4981), (93, 4990), (100, 5020), (113, 5065), (114, 5071), (126, 5122), (138, 5167), (141, 5176), (151, 5239), (155, 5272), (160, 5317), (161, 5320), (175, 5452), (178, 5467), (187, 5536), (190, 5557), (193, 5569), (202, 5638), (205, 5650), (219, 5725), (225, 5770), (230, 5797), (255, 5950), (281, 6052), (290, 6097), (304, 6178), (310, 6208), (317, 6259), (344, 6409), (363, 6550), (373, 6634),

Gene: Brynnie_5 Start: 2755, Stop: 4695, Start Num: 29

Candidate Starts for Brynnie_5:

(Start: 29 @2755 has 64 MA's), (53, 2827), (64, 2896), (65, 2899), (70, 2941), (76, 2977), (89, 3043), (92, 3055), (113, 3133), (117, 3148), (142, 3238), (157, 3337), (165, 3400), (175, 3517), (190, 3622), (192, 3631), (193, 3634), (201, 3694), (204, 3712), (207, 3730), (208, 3733), (222, 3799), (230, 3859), (233, 3883), (243, 3925), (245, 3937), (279, 4078), (288, 4120), (306, 4213), (319, 4306), (323, 4330), (359, 4519), (363, 4570), (364, 4585), (373, 4654), (377, 4681), (378, 4687),

Gene: BubbaBear_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for BubbaBear_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (136, 2854), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (346, 4081), (358, 4144), (363, 4210),

Gene: Buldak_4 Start: 2587, Stop: 4644, Start Num: 16

Candidate Starts for Buldak_4:

(Start: 16 @2587 has 80 MA's), (48, 2701), (55, 2713), (58, 2728), (60, 2737), (64, 2782), (86, 2908), (90, 2932), (95, 2962), (118, 3031), (128, 3076), (141, 3124), (142, 3127), (149, 3178), (154, 3211), (175, 3397), (190, 3502), (198, 3556), (201, 3574), (205, 3595), (225, 3712), (230, 3739), (240, 3796), (245, 3817), (288, 4054), (318, 4237), (346, 4387), (352, 4411), (358, 4450), (363, 4522), (365, 4543),

Gene: Burritobowl_4 Start: 2327, Stop: 4351, Start Num: 16

Candidate Starts for Burritobowl_4:

(Start: 16 @2327 has 80 MA's), (24, 2360), (58, 2468), (60, 2477), (64, 2522), (65, 2525), (78, 2618), (100, 2717), (125, 2810), (143, 2885), (158, 2993), (160, 3020), (175, 3152), (176, 3158), (185, 3227), (190, 3257), (198, 3311), (205, 3350), (230, 3494), (245, 3572), (346, 4091), (358, 4154), (363, 4220),

Gene: CallieOMalley_6 Start: 4658, Stop: 6673, Start Num: 20

Candidate Starts for CallieOMalley_6:

(Start: 20 @4658 has 86 MA's), (28, 4685), (32, 4697), (Start: 38 @4718 has 1 MA's), (66, 4832), (72, 4874), (73, 4877), (86, 4949), (89, 4967), (92, 4979), (94, 4994), (99, 5015), (113, 5063), (114, 5069), (117, 5078), (126, 5120), (128, 5126), (138, 5165), (141, 5174), (142, 5177), (151, 5237), (155, 5270), (160, 5315), (161, 5318), (175, 5450), (190, 5555), (203, 5639), (205, 5648), (212, 5684), (215, 5696), (225, 5768), (230, 5795), (281, 6050), (289, 6086), (317, 6257), (319, 6275), (363, 6548), (373, 6632),

Gene: Camara_4 Start: 2336, Stop: 4255, Start Num: 29

Candidate Starts for Camara_4:

(Start: 29 @2336 has 64 MA's), (45, 2390), (63, 2465), (65, 2477), (73, 2531), (89, 2621), (101, 2675), (117, 2723), (118, 2726), (142, 2810), (157, 2909), (168, 3020), (175, 3089), (177, 3098), (190, 3194), (191, 3197), (193, 3206), (204, 3284), (207, 3302), (216, 3341), (230, 3431), (233, 3455), (243, 3497), (245, 3509), (279, 3647), (288, 3689), (300, 3761), (319, 3875), (323, 3899), (339, 3965), (341, 3974), (349, 4013), (352, 4025), (359, 4079), (363, 4130), (364, 4145), (371, 4199),

Gene: CanFranMach_4 Start: 2331, Stop: 4352, Start Num: 16

Candidate Starts for CanFranMach_4:

(Start: 16 @2331 has 80 MA's), (24, 2364), (58, 2472), (60, 2481), (64, 2526), (78, 2622), (125, 2814), (142, 2883), (158, 2994), (160, 3021), (175, 3153), (176, 3159), (185, 3228), (190, 3258), (198, 3312), (205, 3351), (230, 3495), (245, 3573), (358, 4155), (363, 4221),

Gene: Canowicakte_6 Start: 4693, Stop: 6708, Start Num: 20

Candidate Starts for Canowicakte_6:

(Start: 20 @4693 has 86 MA's), (28, 4720), (32, 4732), (Start: 38 @4753 has 1 MA's), (66, 4867), (72, 4909), (73, 4912), (86, 4984), (89, 5002), (92, 5014), (113, 5098), (114, 5104), (117, 5113), (126, 5155), (128, 5161), (138, 5200), (141, 5209), (142, 5212), (151, 5272), (155, 5305), (160, 5350), (161, 5353), (175, 5485), (190, 5590), (205, 5683), (212, 5719), (215, 5731), (225, 5803), (230, 5830), (235, 5863), (281, 6085), (288, 6118), (289, 6121), (319, 6310), (363, 6583), (373, 6667),

Gene: Carpal_6 Start: 4666, Stop: 6675, Start Num: 20

Candidate Starts for Carpal_6:

(Start: 20 @4666 has 86 MA's), (Start: 29 @4696 has 64 MA's), (62, 4792), (64, 4822), (66, 4834), (73, 4879), (92, 4981), (93, 4990), (100, 5020), (113, 5065), (114, 5071), (126, 5122), (138, 5167), (141, 5176), (151, 5239), (155, 5272), (160, 5317), (161, 5320), (175, 5452), (178, 5467), (187, 5536), (190, 5557), (193, 5569), (202, 5638), (205, 5650), (219, 5725), (225, 5770), (230, 5797), (255, 5950), (280, 6049), (281, 6052), (290, 6097), (304, 6178), (310, 6208), (317, 6259), (344, 6409), (363, 6550), (373, 6634),

Gene: Cashington_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for Cashington_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (185, 3217), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (346, 4081), (358, 4144), (363, 4210),

Gene: Celaena_4 Start: 2452, Stop: 4467, Start Num: 16

Candidate Starts for Celaena_4:

(Start: 16 @2452 has 80 MA's), (22, 2479), (24, 2482), (35, 2524), (46, 2548), (58, 2584), (60, 2593), (64, 2638), (65, 2641), (66, 2650), (86, 2767), (96, 2827), (128, 2935), (150, 3040), (155, 3079), (158, 3097), (160, 3124), (162, 3130), (169, 3190), (175, 3256), (190, 3361), (191, 3364), (192, 3370), (195, 3400), (198, 3418), (220, 3532), (230, 3601), (235, 3634), (245, 3679), (286, 3898), (346, 4210), (357, 4258), (363, 4339), (368, 4387), (370, 4405),

Gene: ChewChew_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for ChewChew_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (56, 2118), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (99, 2370), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: Chickaboom_4 Start: 2389, Stop: 4344, Start Num: 29

Candidate Starts for Chickaboom_4:

(Start: 29 @2389 has 64 MA's), (47, 2449), (63, 2521), (64, 2530), (65, 2533), (76, 2611), (85, 2665), (89, 2692), (92, 2704), (108, 2767), (109, 2770), (111, 2776), (117, 2797), (142, 2887), (157, 2986), (165, 3049), (175, 3166), (190, 3271), (192, 3280), (193, 3283), (201, 3343), (204, 3361), (207, 3379), (208, 3382), (222, 3448), (230, 3508), (233, 3532), (243, 3574), (245, 3586), (279, 3727), (288, 3769), (306, 3862), (319, 3955), (323, 3979), (359, 4168), (363, 4219), (364, 4234), (373, 4303), (377, 4330), (378, 4336),

Gene: Chicken_5 Start: 2684, Stop: 4648, Start Num: 29

Candidate Starts for Chicken_5:

(Start: 29 @2684 has 64 MA's), (53, 2756), (65, 2828), (81, 2930), (89, 2972), (92, 2984), (108, 3047), (109, 3050), (111, 3056), (117, 3077), (142, 3167), (152, 3236), (157, 3266), (175, 3446), (177, 3455), (190, 3551), (191, 3554), (193, 3563), (201, 3623), (204, 3641), (207, 3659), (222, 3728), (230, 3788), (233, 3812), (243, 3854), (245, 3866), (279, 4031), (288, 4073), (302, 4154), (306, 4166), (319, 4259), (322, 4280), (323, 4283), (339, 4358), (343, 4373), (363, 4523), (364, 4538), (375, 4628),

Gene: ChiliPepper_4 Start: 2572, Stop: 4596, Start Num: 16

Candidate Starts for ChiliPepper_4:

(Start: 16 @2572 has 80 MA's), (22, 2599), (24, 2602), (34, 2635), (35, 2644), (49, 2677), (60, 2713), (64, 2758), (76, 2839), (86, 2887), (125, 3040), (129, 3058), (136, 3097), (150, 3169), (155, 3208), (158, 3226), (160, 3253), (175, 3385), (176, 3391), (190, 3490), (192, 3499), (198, 3547), (203, 3577), (211, 3619), (230, 3730), (235, 3763), (245, 3808), (286, 4027), (315, 4189), (325, 4255), (346, 4339), (350, 4354), (368, 4516), (370, 4534),

Gene: Cholula_6 Start: 4711, Stop: 6720, Start Num: 20

Candidate Starts for Cholula_6:

(Start: 20 @4711 has 86 MA's), (Start: 29 @4741 has 64 MA's), (62, 4837), (64, 4867), (66, 4879), (73, 4924), (92, 5026), (93, 5035), (100, 5065), (113, 5110), (114, 5116), (126, 5167), (138, 5212), (141, 5221), (151, 5284), (155, 5317), (160, 5362), (161, 5365), (175, 5497), (178, 5512), (187, 5581), (190, 5602), (193, 5614), (202, 5683), (205, 5695), (219, 5770), (225, 5815), (230, 5842), (280, 6094), (281, 6097), (290, 6142), (304, 6223), (310, 6253), (317, 6304), (344, 6454), (363, 6595), (373, 6679),

Gene: Chridison_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for Chridison_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (209, 3030), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (288, 3450), (310, 3573), (319, 3642), (333, 3708), (355, 3822), (362, 3879), (363, 3915), (364, 3930), (373, 3999),

Gene: Christian_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Christian_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (128, 2481), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (210, 3030), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (280, 3402), (281, 3405), (290, 3450), (304, 3531), (321, 3636), (344, 3762), (363, 3903), (373, 3987),

Gene: Clayda5_3 Start: 2170, Stop: 4221, Start Num: 16

Candidate Starts for Clayda5_3:

(Start: 16 @2170 has 80 MA's), (39, 2254), (49, 2284), (58, 2311), (60, 2320), (65, 2368), (90, 2515), (95, 2545), (96, 2551), (155, 2803), (158, 2821), (160, 2848), (162, 2854), (175, 2980), (190, 3085), (192, 3094), (195, 3124), (198, 3142), (230, 3325), (243, 3391), (245, 3403), (288, 3637), (306, 3733), (348, 3970), (349, 3976), (353, 3991), (357, 4012), (363, 4093), (370, 4159),

Gene: CliffHanger_5 Start: 2398, Stop: 4446, Start Num: 16

Candidate Starts for CliffHanger_5:

(Start: 16 @2398 has 80 MA's), (48, 2512), (60, 2548), (64, 2593), (65, 2596), (77, 2683), (79, 2689), (86, 2719), (90, 2743), (95, 2773), (100, 2785), (125, 2872), (136, 2920), (143, 2941), (155, 3031), (158, 3049), (160, 3076), (162, 3082), (175, 3208), (190, 3313), (195, 3349), (198, 3367), (199, 3370), (201, 3385), (211, 3439), (230, 3550), (231, 3553), (234, 3577), (245, 3628), (274, 3793), (337, 4153), (358, 4261), (360, 4288), (363, 4324), (375, 4429),

Gene: CocoCinnamon_7 Start: 3192, Stop: 5144, Start Num: 29

Candidate Starts for CocoCinnamon_7:

(Start: 29 @3192 has 64 MA's), (43, 3243), (63, 3321), (66, 3342), (91, 3486), (99, 3525), (116, 3582), (159, 3807), (175, 3945), (190, 4050), (193, 4062), (207, 4158), (230, 4287), (256, 4437), (277, 4500), (280, 4509), (312, 4710), (341, 4869), (348, 4902), (354, 4935), (355, 4938), (364, 5037), (372, 5097), (376, 5130),

Gene: Coltrane_3 Start: 2170, Stop: 4221, Start Num: 16

Candidate Starts for Coltrane_3:

(Start: 16 @2170 has 80 MA's), (39, 2254), (49, 2284), (58, 2311), (60, 2320), (65, 2368), (90, 2515), (95, 2545), (96, 2551), (155, 2803), (158, 2821), (160, 2848), (162, 2854), (175, 2980), (190, 3085), (192, 3094), (195, 3124), (198, 3142), (230, 3325), (243, 3391), (245, 3403), (288, 3637), (306, 3733), (348, 3970), (349, 3976), (353, 3991), (357, 4012), (363, 4093), (370, 4159),

Gene: Colusalem_5 Start: 2714, Stop: 4657, Start Num: 29

Candidate Starts for Colusalem_5:

(Start: 29 @2714 has 64 MA's), (41, 2756), (53, 2786), (63, 2846), (64, 2855), (65, 2858), (66, 2867), (88, 2999), (89, 3002), (110, 3083), (117, 3107), (142, 3197), (157, 3296), (175, 3476), (177, 3485), (181, 3527), (190, 3581), (191, 3584), (193, 3593), (204, 3671), (207, 3689), (230, 3818), (233, 3842), (243, 3884), (245, 3896), (279, 4040), (288, 4082), (306, 4175), (315, 4238), (319, 4268), (323, 4292), (359, 4481), (363, 4532), (364, 4547), (371, 4601),

Gene: Coral_5 Start: 2714, Stop: 4657, Start Num: 29

Candidate Starts for Coral_5:

(Start: 29 @2714 has 64 MA's), (41, 2756), (53, 2786), (63, 2846), (64, 2855), (65, 2858), (66, 2867), (88, 2999), (89, 3002), (110, 3083), (117, 3107), (142, 3197), (157, 3296), (175, 3476), (177, 3485), (181, 3527), (190, 3581), (191, 3584), (193, 3593), (204, 3671), (207, 3689), (230, 3818), (233, 3842), (243, 3884), (245, 3896), (279, 4040), (288, 4082), (306, 4175), (315, 4238), (319, 4268), (323, 4292), (359, 4481), (363, 4532), (364, 4547), (371, 4601),

Gene: Cote_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Cote_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: CristinaYang_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for CristinaYang_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (56, 2118), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (99, 2370), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: CroZenni_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for CroZenni_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (65, 2527), (78, 2620), (100, 2719), (125, 2812), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (185, 3229), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: CupcakePrincess_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for CupcakePrincess_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216), (190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (275, 3720), (346, 4080), (358, 4143), (363, 4209),

Gene: Cygnet_5 Start: 2671, Stop: 4629, Start Num: 29

Candidate Starts for Cygnet_5:

(27, 2665), (Start: 29 @2671 has 64 MA's), (52, 2740), (64, 2809), (65, 2812), (106, 3028), (111, 3040), (119, 3070), (152, 3220), (157, 3250), (175, 3430), (177, 3439), (190, 3535), (204, 3625), (222, 3712), (230, 3772), (234, 3799), (243, 3838), (245, 3850), (254, 3925), (306, 4147), (315, 4210), (322, 4261), (352, 4399), (367, 4549), (372, 4579),

Gene: Daiboju_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for Daiboju_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (190, 2912), (209, 3029), (225, 3125), (230, 3152), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (363, 3914), (364, 3929), (373, 3998),

Gene: Damocles_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Damocles_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: DanHam62_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for DanHam62_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Daob_6 Start: 2878, Stop: 4821, Start Num: 29

Candidate Starts for Daob_6:

(Start: 29 @2878 has 64 MA's), (41, 2920), (53, 2950), (63, 3010), (64, 3019), (65, 3022), (66, 3031), (88, 3163), (89, 3166), (110, 3247), (117, 3271), (142, 3361), (157, 3460), (175, 3640), (177, 3649), (181, 3691), (190, 3745), (191, 3748), (193, 3757), (204, 3835), (207, 3853), (230, 3982), (233, 4006), (243, 4048), (245, 4060), (279, 4204), (288, 4246), (306, 4339), (315, 4402), (319, 4432), (323, 4456), (359, 4645), (363, 4696), (364, 4711), (371, 4765),

Gene: DickRichards_4 Start: 2794, Stop: 4818, Start Num: 16

Candidate Starts for DickRichards_4:

(Start: 16 @2794 has 80 MA's), (24, 2827), (58, 2935), (60, 2944), (64, 2989), (65, 2992), (78, 3085), (100, 3184), (125, 3277), (143, 3352), (158, 3460), (160, 3487), (175, 3619), (176, 3625), (185, 3694), (190, 3724), (198, 3778), (205, 3817), (230, 3961), (245, 4039), (346, 4558), (358, 4621), (363, 4687),

Gene: Didgeridoo_5 Start: 2584, Stop: 4605, Start Num: 16

Candidate Starts for Didgeridoo_5:

(Start: 16 @2584 has 80 MA's), (60, 2734), (64, 2779), (65, 2782), (100, 2974), (125, 3067), (143, 3136), (158, 3244), (160, 3271), (175, 3403), (176, 3409), (190, 3508), (198, 3562), (205, 3601), (224, 3715), (230, 3745), (232, 3751), (245, 3823), (247, 3850), (251, 3898), (257, 3913), (286, 4033), (315, 4195), (357, 4393), (358, 4408), (363, 4474), (364, 4489), (368, 4522),

Gene: Dino_6 Start: 4666, Stop: 6675, Start Num: 20

Candidate Starts for Dino_6:

(Start: 20 @4666 has 86 MA's), (Start: 29 @4696 has 64 MA's), (62, 4792), (64, 4822), (66, 4834), (73, 4879), (92, 4981), (93, 4990), (100, 5020), (113, 5065), (114, 5071), (126, 5122), (138, 5167), (141, 5176), (151, 5239), (155, 5272), (160, 5317), (161, 5320), (175, 5452), (178, 5467), (187, 5536), (190, 5557), (193, 5569), (202, 5638), (205, 5650), (219, 5725), (225, 5770), (230, 5797), (281, 6052), (290, 6097), (304, 6178), (310, 6208), (317, 6259), (344, 6409), (363, 6550), (373, 6634),

Gene: DirtyBubble_4 Start: 2593, Stop: 4608, Start Num: 16

Candidate Starts for DirtyBubble_4:

(Start: 16 @2593 has 80 MA's), (22, 2620), (24, 2623), (49, 2698), (60, 2734), (64, 2779), (65, 2782), (86, 2908), (100, 2974), (129, 3079), (143, 3139), (158, 3247), (160, 3274), (175, 3406), (176, 3412), (185, 3481), (190, 3511), (192, 3520), (198, 3568), (203, 3598), (230, 3751), (245, 3829), (332, 4288), (346, 4348), (358, 4411), (363, 4477),

Gene: Dismas_4 Start: 2572, Stop: 4596, Start Num: 16

Candidate Starts for Dismas_4:

(Start: 16 @2572 has 80 MA's), (22, 2599), (24, 2602), (34, 2635), (35, 2644), (49, 2677), (60, 2713), (64, 2758), (76, 2839), (86, 2887), (125, 3040), (129, 3058), (136, 3097), (150, 3169), (155, 3208), (158, 3226), (160, 3253), (175, 3385), (176, 3391), (190, 3490), (192, 3499), (198, 3547), (203, 3577), (211, 3619), (230, 3730), (235, 3763), (245, 3808), (286, 4027), (315, 4189), (325, 4255), (346, 4339), (350, 4354), (368, 4516), (370, 4534),

Gene: Doobus_4 Start: 2551, Stop: 4575, Start Num: 16

Candidate Starts for Doobus_4:

(Start: 16 @2551 has 80 MA's), (24, 2584), (58, 2692), (60, 2701), (64, 2746), (65, 2749), (78, 2842), (100, 2941), (125, 3034), (143, 3109), (158, 3217), (160, 3244), (175, 3376), (176, 3382), (185, 3451), (190, 3481), (198, 3535), (205, 3574), (230, 3718), (245, 3796), (346, 4315), (358, 4378), (363, 4444),

Gene: DrRobert_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for DrRobert_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193,

2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (235, 3183), (267, 3345), (280, 3402), (281, 3405), (290, 3450), (304, 3531), (321, 3636), (344, 3762), (363, 3903), (373, 3987),

Gene: DreamTeam_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for DreamTeam_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (101, 2376), (113, 2418), (114, 2424), (138, 2520), (141, 2529), (148, 2574), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (190, 2910), (191, 2913), (193, 2922), (205, 3003), (210, 3030), (212, 3039), (225, 3123), (230, 3150), (281, 3405), (290, 3450), (302, 3525), (304, 3531), (317, 3612), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: E1_4 Start: 2800, Stop: 4233, Start Num: 29

Candidate Starts for E1_4:

(8, 2701), (11, 2725), (Start: 29 @2800 has 64 MA's), (32, 2809), (41, 2842), (46, 2851), (58, 2884), (64, 2938), (67, 2962), (69, 2977), (73, 2995), (86, 3067), (92, 3097), (118, 3199), (128, 3244), (133, 3262), (140, 3289), (147, 3328), (148, 3334), (149, 3343), (151, 3352), (154, 3376), (167, 3490), (175, 3559), (176, 3565), (181, 3610), (190, 3664), (198, 3718), (202, 3745), (214, 3802), (224, 3871), (225, 3874), (230, 3901), (242, 3964), (243, 3967), (245, 3979), (253, 4045), (270, 4102), (281, 4150), (292, 4204),

Gene: Eden_3 Start: 2234, Stop: 4282, Start Num: 16

Candidate Starts for Eden_3:

(Start: 16 @2234 has 80 MA's), (31, 2288), (58, 2366), (76, 2501), (81, 2525), (100, 2615), (142, 2771), (155, 2864), (158, 2882), (160, 2909), (162, 2915), (175, 3041), (190, 3146), (192, 3155), (195, 3185), (198, 3203), (203, 3233), (224, 3356), (230, 3386), (234, 3413), (245, 3464), (303, 3785), (319, 3887), (351, 4046), (353, 4052), (355, 4067), (357, 4073), (363, 4154), (370, 4220),

Gene: Eesa_5 Start: 2893, Stop: 4869, Start Num: 29

Candidate Starts for Eesa_5:

(Start: 29 @2893 has 64 MA's), (65, 3037), (76, 3115), (85, 3169), (89, 3196), (92, 3208), (104, 3259), (108, 3271), (109, 3274), (111, 3280), (117, 3301), (142, 3391), (152, 3460), (157, 3490), (164, 3550), (175, 3670), (177, 3679), (190, 3775), (191, 3778), (193, 3787), (201, 3847), (204, 3865), (207, 3883), (222, 3952), (230, 4012), (233, 4036), (243, 4078), (245, 4090), (279, 4252), (288, 4294), (302, 4375), (306, 4387), (319, 4480), (322, 4501), (339, 4579), (343, 4594), (352, 4639), (363, 4744), (364, 4759), (375, 4849),

Gene: Elener_5 Start: 3820, Stop: 5781, Start Num: 38

Candidate Starts for Elener_5:

(2, 3523), (3, 3580), (4, 3583), (11, 3709), (Start: 38 @3820 has 1 MA's), (59, 3886), (75, 4015), (96, 4132), (101, 4171), (132, 4294), (137, 4312), (139, 4318), (160, 4465), (175, 4591), (188, 4681), (200, 4765), (232, 4939), (233, 4957), (299, 5278), (310, 5326), (316, 5374), (324, 5422), (331, 5452), (338, 5485), (363, 5656), (366, 5686),

Gene: Elva_5 Start: 2650, Stop: 4677, Start Num: 16

Candidate Starts for Elva_5:

(5, 2527), (Start: 16 @2650 has 80 MA's), (22, 2677), (24, 2680), (49, 2755), (60, 2791), (64, 2836), (65, 2839), (86, 2965), (100, 3031), (128, 3133), (129, 3136), (143, 3196), (150, 3247), (155, 3286), (158, 3304), (160, 3331), (175, 3463), (176, 3469), (190, 3568), (198, 3625), (224, 3778), (230, 3808), (232, 3814), (245, 3886), (332, 4357), (358, 4480), (363, 4546), (373, 4630),

Gene: EstebanJulior_3 Start: 2010, Stop: 4019, Start Num: 20

Candidate Starts for EstebanJulior_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2166), (66, 2178), (73, 2223), (92, 2325), (99, 2361), (100, 2364), (114, 2415), (128, 2472), (138, 2511), (141, 2520), (151, 2583), (154, 2607), (155, 2616), (160, 2661), (161, 2664), (175, 2796), (178, 2811), (187, 2880), (190, 2901), (193, 2913), (202, 2982), (205, 2994), (222, 3081), (225, 3114), (230, 3141), (235, 3174), (281, 3396), (290, 3441), (304, 3522), (344, 3753), (350, 3774), (363, 3894), (373, 3978),

Gene: Eula_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for Eula_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (136, 2853), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216), (190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (346, 4080), (357, 4128), (358, 4143), (363, 4209),

Gene: Eunoia_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for Eunoia_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (134, 2511), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (209, 3030), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (310, 3573), (319, 3642), (344, 3774), (355, 3822), (363, 3915), (364, 3930), (373, 3999),

Gene: EvenBluerMoon_5 Start: 3137, Stop: 5080, Start Num: 29

Candidate Starts for EvenBluerMoon_5:

(Start: 29 @3137 has 64 MA's), (82, 3383), (91, 3431), (111, 3506), (116, 3524), (124, 3554), (157, 3716), (175, 3887), (190, 3992), (222, 4169), (230, 4229), (233, 4253), (235, 4262), (312, 4646), (319, 4703), (335, 4787), (348, 4838), (354, 4871),

Gene: Finalfrontier_5 Start: 2822, Stop: 4846, Start Num: 16

Candidate Starts for Finalfrontier_5:

(Start: 16 @2822 has 80 MA's), (24, 2855), (58, 2963), (60, 2972), (64, 3017), (65, 3020), (78, 3113), (100, 3212), (125, 3305), (143, 3380), (158, 3488), (160, 3515), (175, 3647), (176, 3653), (185, 3722), (190, 3752), (198, 3806), (205, 3845), (230, 3989), (245, 4067), (346, 4586), (358, 4649), (363, 4715),

Gene: Fingolfin_4 Start: 2336, Stop: 4255, Start Num: 29

Candidate Starts for Fingolfin_4:

(Start: 29 @2336 has 64 MA's), (45, 2390), (63, 2465), (65, 2477), (73, 2531), (89, 2621), (101, 2675), (117, 2723), (118, 2726), (142, 2810), (157, 2909), (168, 3020), (175, 3089), (177, 3098), (190, 3194), (191, 3197), (193, 3206), (204, 3284), (207, 3302), (216, 3341), (230, 3431), (233, 3455), (243, 3497), (245, 3509), (279, 3647), (288, 3689), (300, 3761), (319, 3875), (323, 3899), (339, 3965), (341, 3974), (352, 4025), (359, 4079), (363, 4130), (364, 4145), (371, 4199),

Gene: FlameThrower_4 Start: 2448, Stop: 4463, Start Num: 16

Candidate Starts for FlameThrower_4:

(Start: 16 @2448 has 80 MA's), (22, 2475), (24, 2478), (35, 2520), (46, 2544), (58, 2580), (60, 2589), (64, 2634), (65, 2637), (66, 2646), (86, 2763), (96, 2823), (128, 2931), (150, 3036), (155, 3075), (158, 3093), (160, 3120), (162, 3126), (169, 3186), (175, 3252), (190, 3357), (191, 3360), (192, 3366), (195, 3396), (198, 3414), (220, 3528), (230, 3597), (235, 3630), (245, 3675), (286, 3894), (346, 4206), (357, 4254), (363, 4335), (368, 4383), (370, 4401),

Gene: Fluke_6 Start: 4707, Stop: 6716, Start Num: 20

Candidate Starts for Fluke_6:

(Start: 20 @4707 has 86 MA's), (Start: 29 @4737 has 64 MA's), (62, 4833), (64, 4863), (66, 4875), (73, 4920), (92, 5022), (93, 5031), (100, 5061), (113, 5106), (114, 5112), (126, 5163), (138, 5208), (141,

5217), (151, 5280), (155, 5313), (160, 5358), (161, 5361), (175, 5493), (178, 5508), (187, 5577), (190, 5598), (193, 5610), (202, 5679), (205, 5691), (219, 5766), (225, 5811), (230, 5838), (255, 5991), (280, 6090), (281, 6093), (290, 6138), (304, 6219), (310, 6249), (317, 6300), (344, 6450), (363, 6591), (373, 6675),

Gene: Franklin22_3 Start: 2242, Stop: 4278, Start Num: 16

Candidate Starts for Franklin22_3:

(Start: 16 @2242 has 80 MA's), (31, 2296), (37, 2314), (58, 2374), (65, 2431), (70, 2473), (76, 2509), (81, 2533), (100, 2623), (125, 2710), (155, 2869), (158, 2887), (160, 2914), (162, 2920), (175, 3046), (190, 3151), (192, 3160), (195, 3190), (198, 3208), (224, 3361), (230, 3391), (245, 3469), (279, 3652), (319, 3883), (334, 3958), (339, 3976), (348, 4027), (349, 4033), (353, 4048), (357, 4069), (363, 4150), (370, 4216),

Gene: Gack_3 Start: 2278, Stop: 4326, Start Num: 16

Candidate Starts for Gack_3:

(Start: 16 @2278 has 80 MA's), (31, 2332), (58, 2410), (65, 2467), (70, 2509), (90, 2617), (95, 2647), (103, 2668), (125, 2749), (142, 2815), (149, 2866), (155, 2908), (158, 2926), (160, 2953), (162, 2959), (175, 3085), (190, 3190), (192, 3199), (195, 3229), (198, 3247), (203, 3277), (224, 3400), (230, 3430), (245, 3508), (264, 3625), (279, 3700), (319, 3931), (348, 4075), (349, 4081), (353, 4096), (357, 4117), (363, 4198),

Gene: Galaxy_5 Start: 2701, Stop: 4644, Start Num: 29

Candidate Starts for Galaxy_5:

(Start: 29 @2701 has 64 MA's), (63, 2833), (65, 2845), (76, 2923), (89, 2989), (118, 3097), (142, 3184), (157, 3283), (175, 3463), (177, 3472), (190, 3568), (192, 3577), (193, 3580), (204, 3658), (207, 3676), (208, 3679), (222, 3745), (230, 3805), (233, 3829), (243, 3871), (245, 3883), (279, 4027), (288, 4069), (306, 4162), (319, 4255), (323, 4279), (363, 4519), (364, 4534), (373, 4603), (377, 4630),

Gene: Gibbzilla_5 Start: 2292, Stop: 3929, Start Num: 86

Candidate Starts for Gibbzilla_5:

(Start: 25 @1998 has 2 MA's), (64, 2163), (65, 2166), (66, 2175), (69, 2202), (74, 2238), (86, 2292), (110, 2394), (112, 2397), (113, 2403), (115, 2412), (118, 2421), (134, 2490), (146, 2547), (148, 2556), (160, 2652), (172, 2742), (175, 2772), (179, 2808), (183, 2838), (186, 2853), (189, 2865), (190, 2877), (191, 2880), (197, 2925), (199, 2934), (201, 2949), (219, 3042), (223, 3078), (226, 3090), (236, 3141), (238, 3147), (244, 3171), (248, 3201), (272, 3306), (273, 3309), (283, 3363), (284, 3369), (296, 3453), (314, 3510), (347, 3684), (361, 3765), (363, 3801), (364, 3816), (365, 3822), (367, 3846), (369, 3864), (375, 3906),

Gene: Gisselle_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Gisselle_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (101, 2376), (113, 2418), (114, 2424), (138, 2520), (141, 2529), (148, 2574), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (190, 2910), (191, 2913), (193, 2922), (205, 3003), (210, 3030), (212, 3039), (225, 3123), (230, 3150), (281, 3405), (290, 3450), (302, 3525), (304, 3531), (317, 3612), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: Glenn_6 Start: 4717, Stop: 6726, Start Num: 20

Candidate Starts for Glenn_6:

(Start: 20 @4717 has 86 MA's), (Start: 29 @4747 has 64 MA's), (62, 4843), (64, 4873), (66, 4885), (73, 4930), (92, 5032), (93, 5041), (100, 5071), (113, 5116), (114, 5122), (126, 5173), (138, 5218), (141, 5227), (151, 5290), (155, 5323), (160, 5368), (161, 5371), (175, 5503), (178, 5518), (187, 5587), (190, 5608), (193, 5620), (202, 5689), (205, 5701), (219, 5776), (225, 5821), (230, 5848), (281, 6103), (290, 6148), (304, 6229), (310, 6259), (317, 6310), (344, 6460), (363, 6601), (373, 6685),

Gene: Glotell_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for Glotell_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (349, 4012), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: GramZayde_5 Start: 2715, Stop: 4658, Start Num: 29

Candidate Starts for GramZayde_5:

(Start: 29 @2715 has 64 MA's), (41, 2757), (63, 2847), (64, 2856), (65, 2859), (76, 2937), (88, 3000), (89, 3003), (110, 3084), (117, 3108), (142, 3198), (157, 3297), (175, 3477), (177, 3486), (181, 3528), (190, 3582), (191, 3585), (193, 3594), (204, 3672), (207, 3690), (230, 3819), (233, 3843), (243, 3885), (245, 3897), (279, 4041), (288, 4083), (306, 4176), (315, 4239), (319, 4269), (323, 4293), (359, 4482), (363, 4533), (364, 4548), (371, 4602),

Gene: Gravel_6 Start: 2893, Stop: 4863, Start Num: 29

Candidate Starts for Gravel_6:

(Start: 29 @2893 has 64 MA's), (65, 3037), (85, 3169), (89, 3196), (92, 3208), (104, 3259), (108, 3271), (109, 3274), (111, 3280), (117, 3301), (142, 3391), (157, 3490), (175, 3670), (177, 3679), (190, 3775), (191, 3778), (193, 3787), (201, 3847), (204, 3865), (207, 3883), (222, 3952), (230, 4012), (233, 4036), (243, 4078), (245, 4090), (266, 4204), (279, 4252), (288, 4294), (319, 4480), (332, 4540), (339, 4573), (352, 4633), (363, 4738), (371, 4807), (373, 4822), (375, 4843),

Gene: Graynor_6 Start: 4682, Stop: 6697, Start Num: 20

Candidate Starts for Graynor_6:

(Start: 20 @4682 has 86 MA's), (28, 4709), (32, 4721), (Start: 38 @4742 has 1 MA's), (66, 4856), (72, 4898), (73, 4901), (86, 4973), (89, 4991), (92, 5003), (94, 5018), (114, 5093), (128, 5150), (138, 5189), (141, 5198), (142, 5201), (151, 5261), (155, 5294), (160, 5339), (161, 5342), (175, 5474), (190, 5579), (203, 5663), (205, 5672), (215, 5720), (225, 5792), (230, 5819), (281, 6074), (288, 6107), (289, 6110), (317, 6281), (319, 6299), (363, 6572), (373, 6656),

Gene: GreenHearts_6 Start: 4716, Stop: 6734, Start Num: 20

Candidate Starts for GreenHearts_6:

(Start: 20 @4716 has 86 MA's), (39, 4782), (40, 4785), (64, 4881), (66, 4893), (91, 5037), (92, 5040), (100, 5079), (114, 5130), (126, 5181), (129, 5190), (138, 5226), (153, 5310), (155, 5331), (161, 5379), (170, 5445), (175, 5511), (185, 5586), (190, 5616), (191, 5619), (205, 5709), (224, 5826), (225, 5829), (230, 5856), (281, 6111), (288, 6144), (305, 6240), (310, 6267), (344, 6468), (363, 6609), (364, 6624), (373, 6693),

Gene: Greenhouse_6 Start: 4685, Stop: 6703, Start Num: 20

Candidate Starts for Greenhouse_6:

(Start: 20 @4685 has 86 MA's), (39, 4751), (40, 4754), (64, 4850), (66, 4862), (91, 5006), (92, 5009), (99, 5045), (100, 5048), (114, 5099), (126, 5150), (129, 5159), (138, 5195), (153, 5279), (155, 5300), (161, 5348), (170, 5414), (175, 5480), (190, 5585), (191, 5588), (205, 5678), (224, 5795), (225, 5798), (230, 5825), (281, 6080), (288, 6113), (305, 6209), (310, 6236), (344, 6437), (363, 6578), (364, 6593), (373, 6662),

Gene: HamCheese_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for HamCheese_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193),

(191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: HannahPhantana_6 Start: 2878, Stop: 4821, Start Num: 29

Candidate Starts for HannahPhantana_6:

(Start: 29 @2878 has 64 MA's), (41, 2920), (53, 2950), (63, 3010), (65, 3022), (89, 3166), (92, 3178), (111, 3250), (142, 3361), (157, 3460), (175, 3640), (177, 3649), (181, 3691), (190, 3745), (191, 3748), (193, 3757), (204, 3835), (207, 3853), (222, 3922), (230, 3982), (233, 4006), (243, 4048), (245, 4060), (279, 4204), (288, 4246), (306, 4339), (315, 4402), (319, 4432), (323, 4456), (359, 4645), (363, 4696), (364, 4711), (371, 4765),

Gene: HeadNerd_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for HeadNerd_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (92, 2334), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (134, 2508), (138, 2520), (141, 2529), (160, 2670), (175, 2805), (178, 2820), (180, 2850), (187, 2889), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: Herb_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for Herb_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (190, 2912), (209, 3029), (225, 3125), (230, 3152), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (363, 3914), (364, 3929), (373, 3998),

Gene: Hereford_6 Start: 3318, Stop: 5261, Start Num: 29

Candidate Starts for Hereford_6:

(Start: 29 @3318 has 64 MA's), (82, 3564), (91, 3612), (111, 3687), (116, 3705), (124, 3735), (157, 3897), (175, 4068), (190, 4173), (222, 4350), (230, 4410), (233, 4434), (235, 4443), (312, 4827), (319, 4884), (335, 4968), (348, 5019), (354, 5052),

Gene: Huckleberry_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Huckleberry_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (92, 2334), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (134, 2508), (138, 2520), (141, 2529), (160, 2670), (175, 2805), (178, 2820), (180, 2850), (187, 2889), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: HunterDalle_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for HunterDalle_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (134, 2511), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (310, 3573), (319, 3642), (344, 3774), (355, 3822), (363, 3915), (364, 3930), (373, 3999),

Gene: Huntingdon_6 Start: 4664, Stop: 6682, Start Num: 20

Candidate Starts for Huntingdon_6:

(Start: 20 @4664 has 86 MA's), (39, 4730), (66, 4841), (91, 4985), (92, 4988), (99, 5024), (100, 5027), (114, 5078), (126, 5129), (129, 5138), (138, 5174), (153, 5258), (155, 5279), (161, 5327), (170, 5393), (175, 5459), (190, 5564), (191, 5567), (205, 5657), (210, 5684), (224, 5774), (225, 5777), (230, 5804), (281, 6059), (288, 6092), (304, 6185), (305, 6188), (310, 6215), (344, 6416), (363, 6557), (364, 6572), (373, 6641),

Gene: Icarian_5 Start: 2585, Stop: 4600, Start Num: 16

Candidate Starts for Icarian_5:

(Start: 16 @2585 has 80 MA's), (22, 2612), (24, 2615), (49, 2690), (60, 2726), (64, 2771), (65, 2774), (86, 2900), (100, 2966), (129, 3071), (136, 3110), (143, 3131), (150, 3182), (158, 3239), (160, 3266), (175, 3398), (176, 3404), (178, 3413), (185, 3473), (190, 3503), (198, 3560), (203, 3590), (230, 3743), (245, 3821), (315, 4190), (358, 4403), (363, 4469),

Gene: Immaculata_6 Start: 4711, Stop: 6720, Start Num: 20

Candidate Starts for Immaculata_6:

(Start: 20 @4711 has 86 MA's), (Start: 29 @4741 has 64 MA's), (62, 4837), (64, 4867), (66, 4879), (73, 4924), (92, 5026), (93, 5035), (100, 5065), (113, 5110), (114, 5116), (126, 5167), (138, 5212), (141, 5221), (151, 5284), (155, 5317), (160, 5362), (161, 5365), (175, 5497), (178, 5512), (187, 5581), (190, 5602), (193, 5614), (202, 5683), (205, 5695), (219, 5770), (225, 5815), (230, 5842), (255, 5995), (281, 6097), (290, 6142), (304, 6223), (310, 6253), (317, 6304), (344, 6454), (363, 6595), (373, 6679),

Gene: IndyLu_4 Start: 2408, Stop: 4429, Start Num: 16

Candidate Starts for IndyLu_4:

(Start: 16 @2408 has 80 MA's), (60, 2558), (64, 2603), (65, 2606), (100, 2798), (125, 2891), (143, 2960), (158, 3068), (160, 3095), (175, 3227), (176, 3233), (190, 3332), (198, 3386), (205, 3425), (230, 3569), (232, 3575), (245, 3647), (247, 3674), (251, 3722), (257, 3737), (315, 4019), (357, 4217), (358, 4232), (363, 4298), (364, 4313), (368, 4346),

Gene: Jabb_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for Jabb_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216), (190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (275, 3720), (346, 4080), (358, 4143), (363, 4209),

Gene: Jamun_5 Start: 2958, Stop: 4916, Start Num: 29

Candidate Starts for Jamun_5:

(Start: 29 @2958 has 64 MA's), (47, 3018), (64, 3099), (65, 3102), (76, 3180), (78, 3195), (81, 3204), (85, 3234), (89, 3261), (92, 3273), (108, 3336), (109, 3339), (111, 3345), (117, 3366), (142, 3456), (152, 3525), (157, 3555), (165, 3618), (175, 3735), (190, 3840), (192, 3849), (193, 3852), (201, 3912), (204, 3930), (207, 3948), (208, 3951), (222, 4017), (230, 4077), (233, 4101), (243, 4143), (245, 4155), (279, 4299), (288, 4341), (306, 4434), (319, 4527), (323, 4551), (359, 4740), (363, 4791), (364, 4806), (373, 4875), (375, 4896),

Gene: JanetJ_5 Start: 2916, Stop: 4856, Start Num: 29

Candidate Starts for JanetJ_5:

(Start: 29 @2916 has 64 MA's), (55, 2991), (76, 3135), (91, 3210), (99, 3249), (111, 3285), (116, 3303), (157, 3495), (175, 3666), (190, 3771), (222, 3948), (230, 4008), (233, 4032), (241, 4068), (245, 4086), (312, 4422), (335, 4563), (348, 4614), (354, 4647),

Gene: JeanClaude_4 Start: 2058, Stop: 3983, Start Num: 29

Candidate Starts for JeanClaude_4:

(Start: 29 @2058 has 64 MA's), (35, 2085), (55, 2133), (78, 2292), (92, 2355), (99, 2391), (110, 2427), (116, 2448), (123, 2475), (153, 2613), (159, 2673), (175, 2811), (177, 2820), (190, 2916), (207, 3024), (222, 3093), (256, 3303), (277, 3372), (280, 3381), (291, 3432), (311, 3540), (312, 3549), (313, 3555), (323, 3630), (328, 3654), (339, 3699), (341, 3708), (348, 3741), (354, 3774), (359, 3810), (376, 3969),

Gene: Jerole_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Jerole_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: Joann_6 Start: 4656, Stop: 6674, Start Num: 20

Candidate Starts for Joann_6:

(Start: 20 @4656 has 86 MA's), (39, 4722), (40, 4725), (64, 4821), (66, 4833), (88, 4965), (91, 4977), (92, 4980), (100, 5019), (114, 5070), (126, 5121), (129, 5130), (138, 5166), (153, 5250), (155, 5271), (161, 5319), (170, 5385), (175, 5451), (190, 5556), (191, 5559), (205, 5649), (210, 5676), (224, 5766), (225, 5769), (230, 5796), (281, 6051), (288, 6084), (305, 6180), (310, 6207), (344, 6408), (363, 6549), (364, 6564), (373, 6633),

Gene: Johnathan_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for Johnathan_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (78, 2620), (100, 2719), (125, 2812), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (185, 3229), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: Jovita_4 Start: 2442, Stop: 4466, Start Num: 16

Candidate Starts for Jovita_4:

(Start: 16 @2442 has 80 MA's), (24, 2475), (58, 2583), (60, 2592), (64, 2637), (65, 2640), (78, 2733), (100, 2832), (125, 2925), (143, 3000), (158, 3108), (160, 3135), (175, 3267), (176, 3273), (185, 3342), (190, 3372), (198, 3426), (230, 3609), (245, 3687), (346, 4206), (357, 4254), (358, 4269), (363, 4335),

Gene: Jumboset_6 Start: 4690, Stop: 6669, Start Num: 29

Candidate Starts for Jumboset_6:

(Start: 20 @4660 has 86 MA's), (Start: 29 @4690 has 64 MA's), (62, 4786), (64, 4816), (66, 4828), (73, 4873), (92, 4975), (93, 4984), (100, 5014), (113, 5059), (114, 5065), (126, 5116), (138, 5161), (141, 5170), (151, 5233), (155, 5266), (160, 5311), (161, 5314), (175, 5446), (178, 5461), (190, 5551), (193, 5563), (202, 5632), (205, 5644), (219, 5719), (225, 5764), (230, 5791), (280, 6043), (281, 6046), (290, 6091), (304, 6172), (310, 6202), (317, 6253), (344, 6403), (363, 6544), (373, 6628),

Gene: Juno112_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for Juno112_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: KHumphrey_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for KHumphrey_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193),

(191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (349, 4012), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Kalizoi_6 Start: 4660, Stop: 6669, Start Num: 20

Candidate Starts for Kalizoi_6:

(Start: 20 @4660 has 86 MA's), (Start: 29 @4690 has 64 MA's), (62, 4786), (64, 4816), (66, 4828), (73, 4873), (92, 4975), (93, 4984), (100, 5014), (113, 5059), (114, 5065), (126, 5116), (138, 5161), (141, 5170), (151, 5233), (155, 5266), (160, 5311), (161, 5314), (175, 5446), (178, 5461), (187, 5530), (190, 5551), (193, 5563), (202, 5632), (205, 5644), (219, 5719), (225, 5764), (230, 5791), (255, 5944), (281, 6046), (290, 6091), (304, 6172), (310, 6202), (317, 6253), (344, 6403), (363, 6544), (373, 6628),

Gene: Kamdara_4 Start: 2571, Stop: 4595, Start Num: 16

Candidate Starts for Kamdara_4:

(Start: 16 @2571 has 80 MA's), (22, 2598), (24, 2601), (34, 2634), (35, 2643), (49, 2676), (60, 2712), (64, 2757), (76, 2838), (86, 2886), (125, 3039), (129, 3057), (136, 3096), (150, 3168), (155, 3207), (158, 3225), (160, 3252), (175, 3384), (176, 3390), (190, 3489), (192, 3498), (198, 3546), (203, 3576), (211, 3618), (230, 3729), (235, 3762), (245, 3807), (286, 4026), (315, 4188), (325, 4254), (346, 4338), (350, 4353), (368, 4515), (370, 4533),

Gene: Kate33_4 Start: 2408, Stop: 4429, Start Num: 16

Candidate Starts for Kate33_4:

(Start: 16 @2408 has 80 MA's), (60, 2558), (64, 2603), (65, 2606), (100, 2798), (125, 2891), (143, 2960), (158, 3068), (160, 3095), (175, 3227), (176, 3233), (190, 3332), (198, 3386), (205, 3425), (230, 3569), (232, 3575), (245, 3647), (247, 3674), (251, 3722), (257, 3737), (315, 4019), (357, 4217), (358, 4232), (363, 4298), (364, 4313), (368, 4346),

Gene: Katzastrophic_4 Start: 2515, Stop: 4530, Start Num: 16

Candidate Starts for Katzastrophic_4:

(Start: 16 @2515 has 80 MA's), (22, 2542), (24, 2545), (35, 2587), (46, 2611), (58, 2647), (60, 2656), (64, 2701), (65, 2704), (66, 2713), (86, 2830), (96, 2890), (128, 2998), (150, 3103), (155, 3142), (158, 3160), (160, 3187), (162, 3193), (169, 3253), (175, 3319), (190, 3424), (191, 3427), (192, 3433), (195, 3463), (198, 3481), (220, 3595), (230, 3664), (235, 3697), (245, 3742), (286, 3961), (346, 4273), (357, 4321), (363, 4402), (368, 4450), (370, 4468),

Gene: KendraB23_6 Start: 2893, Stop: 4863, Start Num: 29

Candidate Starts for KendraB23_6:

(Start: 29 @2893 has 64 MA's), (65, 3037), (85, 3169), (89, 3196), (92, 3208), (104, 3259), (108, 3271), (109, 3274), (111, 3280), (117, 3301), (142, 3391), (157, 3490), (175, 3670), (177, 3679), (190, 3775), (191, 3778), (193, 3787), (201, 3847), (204, 3865), (207, 3883), (222, 3952), (230, 4012), (233, 4036), (243, 4078), (245, 4090), (266, 4204), (279, 4252), (288, 4294), (319, 4480), (332, 4540), (339, 4573), (352, 4633), (363, 4738), (371, 4807), (373, 4822), (375, 4843),

Gene: Kenzers_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for Kenzers_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (346, 4081), (358, 4144), (363, 4210),

Gene: Kepler_5 Start: 2713, Stop: 4656, Start Num: 29

Candidate Starts for Kepler_5:

(Start: 29 @2713 has 64 MA's), (41, 2755), (53, 2785), (63, 2845), (64, 2854), (65, 2857), (66, 2866), (88, 2998), (89, 3001), (110, 3082), (117, 3106), (142, 3196), (157, 3295), (175, 3475), (177, 3484),

(181, 3526), (190, 3580), (191, 3583), (193, 3592), (204, 3670), (207, 3688), (230, 3817), (233, 3841), (243, 3883), (245, 3895), (279, 4039), (288, 4081), (306, 4174), (315, 4237), (319, 4267), (323, 4291), (359, 4480), (363, 4531), (364, 4546), (371, 4600),

Gene: Khuang_3 Start: 1991, Stop: 3505, Start Num: 16

Candidate Starts for Khuang_3:

(13, 1979), (14, 1982), (Start: 15 @1985 has 1 MA's), (Start: 16 @1991 has 80 MA's), (42, 2072), (51, 2090), (62, 2132), (64, 2162), (78, 2255), (92, 2318), (102, 2357), (118, 2411), (128, 2456), (169, 2708), (175, 2774), (180, 2819), (189, 2867), (190, 2879), (192, 2888), (195, 2915), (202, 2960), (204, 2969), (212, 3005), (224, 3086), (225, 3089), (237, 3158), (262, 3299), (269, 3323), (282, 3389), (293, 3446), (297, 3476), (298, 3479),

Gene: Kieran_4 Start: 2572, Stop: 4596, Start Num: 16

Candidate Starts for Kieran_4:

(Start: 16 @2572 has 80 MA's), (22, 2599), (24, 2602), (34, 2635), (35, 2644), (49, 2677), (60, 2713), (64, 2758), (86, 2887), (125, 3040), (129, 3058), (136, 3097), (150, 3169), (155, 3208), (158, 3226), (160, 3253), (175, 3385), (176, 3391), (190, 3490), (192, 3499), (198, 3547), (203, 3577), (211, 3619), (230, 3730), (235, 3763), (245, 3808), (286, 4027), (315, 4189), (325, 4255), (346, 4339), (350, 4354), (368, 4516), (370, 4534),

Gene: KingBob_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for KingBob_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (190, 2912), (209, 3029), (225, 3125), (230, 3152), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (363, 3914), (364, 3929), (373, 3998),

Gene: Kittykat_3 Start: 2010, Stop: 4025, Start Num: 20

Candidate Starts for Kittykat_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (44, 2085), (63, 2163), (64, 2172), (66, 2184), (73, 2229), (92, 2331), (93, 2340), (114, 2421), (122, 2454), (128, 2478), (129, 2481), (134, 2505), (138, 2517), (141, 2526), (149, 2580), (155, 2622), (160, 2667), (161, 2670), (175, 2802), (178, 2817), (190, 2907), (193, 2919), (202, 2988), (205, 3000), (219, 3075), (225, 3120), (230, 3147), (281, 3402), (290, 3447), (302, 3522), (304, 3528), (317, 3609), (332, 3687), (344, 3759), (363, 3900), (373, 3984),

Gene: Korra_6 Start: 4666, Stop: 6675, Start Num: 20

Candidate Starts for Korra_6:

(Start: 20 @4666 has 86 MA's), (Start: 29 @4696 has 64 MA's), (62, 4792), (64, 4822), (66, 4834), (73, 4879), (92, 4981), (93, 4990), (100, 5020), (113, 5065), (114, 5071), (126, 5122), (138, 5167), (141, 5176), (151, 5239), (155, 5272), (160, 5317), (161, 5320), (175, 5452), (178, 5467), (187, 5536), (190, 5557), (193, 5569), (202, 5638), (205, 5650), (219, 5725), (225, 5770), (230, 5797), (255, 5950), (281, 6052), (290, 6097), (304, 6178), (310, 6208), (317, 6259), (344, 6409), (363, 6550), (373, 6634),

Gene: Kuleana_5 Start: 2687, Stop: 4621, Start Num: 29

Candidate Starts for Kuleana_5:

(Start: 29 @2687 has 64 MA's), (45, 2741), (65, 2828), (78, 2921), (92, 2984), (101, 3026), (119, 3083), (141, 3161), (157, 3263), (175, 3443), (181, 3494), (190, 3548), (191, 3551), (193, 3560), (201, 3620), (204, 3638), (207, 3656), (228, 3770), (230, 3785), (233, 3809), (245, 3863), (279, 4004), (288, 4046), (306, 4139), (319, 4232), (323, 4256), (339, 4331), (363, 4496), (364, 4511), (367, 4541),

Gene: Kumotta_4 Start: 2487, Stop: 4460, Start Num: 25

Candidate Starts for Kumotta_4:

(Start: 20 @2475 has 86 MA's), (Start: 25 @2487 has 2 MA's), (33, 2517), (41, 2550), (58, 2601), (62, 2625), (65, 2658), (73, 2712), (86, 2784), (92, 2814), (93, 2823), (94, 2829), (105, 2871), (110, 2886), (119, 2922), (120, 2925), (145, 3036), (149, 3057), (151, 3066), (156, 3102), (158, 3117), (159, 3138), (175, 3276), (189, 3369), (190, 3381), (198, 3435), (212, 3510), (225, 3594), (230, 3621), (233, 3645), (243, 3687), (259, 3783), (271, 3828), (277, 3852), (280, 3861), (288, 3897), (289, 3900), (291, 3912), (304, 3987), (312, 4029), (315, 4056), (323, 4110), (341, 4185), (348, 4218), (354, 4251), (376, 4446),

Gene: Lahqtemish_4 Start: 2406, Stop: 4427, Start Num: 16

Candidate Starts for Lahqtemish_4:

(Start: 16 @2406 has 80 MA's), (60, 2556), (64, 2601), (65, 2604), (78, 2697), (125, 2889), (143, 2958), (158, 3066), (160, 3093), (175, 3225), (176, 3231), (185, 3300), (190, 3330), (198, 3384), (205, 3423), (230, 3567), (245, 3645), (247, 3672), (286, 3855), (315, 4017), (357, 4215), (358, 4230), (363, 4296), (368, 4344),

Gene: Lakshmi_6 Start: 4692, Stop: 6710, Start Num: 20

Candidate Starts for Lakshmi_6:

(Start: 20 @4692 has 86 MA's), (39, 4758), (40, 4761), (66, 4869), (91, 5013), (92, 5016), (100, 5055), (114, 5106), (126, 5157), (129, 5166), (138, 5202), (153, 5286), (155, 5307), (161, 5355), (170, 5421), (175, 5487), (190, 5592), (191, 5595), (205, 5685), (210, 5712), (224, 5802), (225, 5805), (230, 5832), (281, 6087), (288, 6120), (305, 6216), (310, 6243), (344, 6444), (363, 6585), (364, 6600), (373, 6669),

Gene: Laphuphu24k_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for Laphuphu24k_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Lasagna_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Lasagna_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (56, 2118), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (99, 2370), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: Lennox_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Lennox_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (99, 2370), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (280, 3402), (281, 3405), (290, 3450), (302, 3525), (304, 3531), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: Leona_4 Start: 2383, Stop: 4302, Start Num: 29

Candidate Starts for Leona_4:

(Start: 29 @2383 has 64 MA's), (45, 2437), (63, 2512), (65, 2524), (73, 2578), (89, 2668), (101, 2722), (117, 2770), (118, 2773), (142, 2857), (157, 2956), (163, 3013), (168, 3067), (175, 3136), (177, 3145), (190, 3241), (191, 3244), (193, 3253), (204, 3331), (216, 3388), (230, 3478), (233, 3502), (243, 3544), (245, 3556), (279, 3694), (288, 3736), (300, 3808), (319, 3922), (323, 3946), (339, 4012), (341, 4021),

(352, 4072), (359, 4126), (363, 4177), (364, 4192), (371, 4246),

Gene: LilStuart_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for LilStuart_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (56, 2118), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (99, 2370), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: Lilo27_4 Start: 2323, Stop: 4347, Start Num: 16

Candidate Starts for Lilo27_4:

(Start: 16 @2323 has 80 MA's), (24, 2356), (58, 2464), (60, 2473), (64, 2518), (65, 2521), (78, 2614), (100, 2713), (125, 2806), (136, 2860), (143, 2881), (158, 2989), (160, 3016), (175, 3148), (176, 3154), (190, 3253), (198, 3307), (205, 3346), (230, 3490), (245, 3568), (346, 4087), (357, 4135), (358, 4150), (363, 4216),

Gene: LimaBean_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for LimaBean_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (65, 2527), (78, 2620), (100, 2719), (125, 2812), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (185, 3229), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: Litotes_6 Start: 4646, Stop: 6661, Start Num: 20

Candidate Starts for Litotes_6:

(Start: 20 @4646 has 86 MA's), (28, 4673), (32, 4685), (Start: 38 @4706 has 1 MA's), (66, 4820), (72, 4862), (73, 4865), (86, 4937), (89, 4955), (92, 4967), (94, 4982), (99, 5003), (114, 5057), (117, 5066), (126, 5108), (128, 5114), (138, 5153), (141, 5162), (142, 5165), (151, 5225), (155, 5258), (160, 5303), (161, 5306), (175, 5438), (190, 5543), (205, 5636), (215, 5684), (225, 5756), (230, 5783), (281, 6038), (288, 6071), (317, 6245), (319, 6263), (363, 6536), (373, 6620),

Gene: LittleTokyo_5 Start: 2662, Stop: 4599, Start Num: 29

Candidate Starts for LittleTokyo_5:

(27, 2656), (Start: 29 @2662 has 64 MA's), (45, 2716), (52, 2731), (64, 2800), (65, 2803), (83, 2926), (106, 3019), (116, 3049), (141, 3139), (142, 3142), (152, 3211), (157, 3241), (175, 3421), (177, 3430), (190, 3526), (204, 3616), (216, 3673), (230, 3763), (233, 3787), (243, 3829), (245, 3841), (277, 3979), (280, 3988), (306, 4117), (308, 4129), (315, 4180), (319, 4210), (322, 4231), (352, 4369), (359, 4423), (363, 4474), (364, 4489), (367, 4519), (372, 4549),

Gene: Loviatar_4 Start: 2596, Stop: 4611, Start Num: 16

Candidate Starts for Loviatar_4:

(1, 2308), (Start: 16 @2596 has 80 MA's), (22, 2623), (24, 2626), (49, 2701), (60, 2737), (64, 2782), (65, 2785), (86, 2911), (100, 2977), (129, 3082), (150, 3193), (158, 3250), (160, 3277), (175, 3409), (176, 3415), (185, 3484), (190, 3514), (192, 3523), (198, 3571), (203, 3601), (230, 3754), (245, 3832), (346, 4351), (358, 4414), (363, 4480), (370, 4546), (373, 4564),

Gene: Lucy_3 Start: 2010, Stop: 4019, Start Num: 20

Candidate Starts for Lucy_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (62, 2136), (64, 2166), (66, 2178), (73, 2223), (92, 2325), (93, 2334), (94, 2340), (96, 2355), (100, 2364), (113, 2409), (114, 2415), (128, 2472), (129, 2475), (138, 2511), (141, 2520), (151, 2583), (155, 2616), (160, 2661), (161, 2664), (175, 2796), (178, 2811), (187, 2880), (190, 2901), (193, 2913), (205, 2994), (215, 3042), (219, 3069), (225, 3114), (230, 3141), (245, 3219), (267, 3336), (280, 3393), (281, 3396), (290, 3441), (304, 3522), (344,

3753), (363, 3894), (373, 3978),

Gene: Lunar_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Lunar_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: Lynlen_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for Lynlen_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (346, 4081), (358, 4144), (363, 4210),

Gene: Mahdia_3 Start: 2134, Stop: 3525, Start Num: 20

Candidate Starts for Mahdia_3:

(Start: 20 @2134 has 86 MA's), (24, 2143), (44, 2206), (67, 2308), (92, 2443), (100, 2488), (106, 2509), (110, 2518), (119, 2554), (121, 2563), (127, 2590), (175, 2917), (178, 2932), (185, 2992), (190, 3022), (193, 3034), (198, 3076), (199, 3079), (208, 3133), (211, 3148), (217, 3178), (224, 3235), (228, 3250), (230, 3265), (237, 3307), (268, 3463),

Gene: Maja_4 Start: 2483, Stop: 4399, Start Num: 29

Candidate Starts for Maja_4:

(Start: 29 @2483 has 64 MA's), (65, 2624), (76, 2702), (91, 2777), (116, 2873), (123, 2900), (175, 3236), (190, 3341), (193, 3353), (207, 3449), (222, 3518), (230, 3578), (234, 3605), (244, 3650), (256, 3728), (277, 3791), (280, 3800), (288, 3836), (312, 3965), (315, 3992), (348, 4157), (354, 4190), (376, 4385),

Gene: Makoto_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Makoto_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (145, 2562), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (235, 3183), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: MamaPearl_3 Start: 2010, Stop: 4019, Start Num: 20

Candidate Starts for MamaPearl_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2166), (66, 2178), (73, 2223), (92, 2325), (99, 2361), (100, 2364), (114, 2415), (128, 2472), (138, 2511), (141, 2520), (151, 2583), (154, 2607), (155, 2616), (160, 2661), (161, 2664), (175, 2796), (178, 2811), (187, 2880), (190, 2901), (193, 2913), (202, 2982), (205, 2994), (222, 3081), (225, 3114), (230, 3141), (235, 3174), (281, 3396), (290, 3441), (304, 3522), (344, 3753), (350, 3774), (363, 3894), (373, 3978),

Gene: MargaretKali_5 Start: 2564, Stop: 4480, Start Num: 29

Candidate Starts for MargaretKali_5:

(Start: 29 @2564 has 64 MA's), (35, 2591), (39, 2600), (55, 2639), (63, 2693), (64, 2702), (73, 2759), (82, 2810), (91, 2858), (99, 2897), (110, 2933), (116, 2954), (151, 3107), (152, 3116), (175, 3317), (179, 3353), (190, 3422), (191, 3425), (195, 3458), (207, 3530), (222, 3599), (228, 3644), (230, 3659), (233, 3683), (235, 3692), (256, 3809), (271, 3848), (277, 3872), (280, 3881), (289, 3920), (301, 3995), (304, 4007), (312, 4049), (315, 4076), (323, 4130), (326, 4145), (328, 4154), (330, 4160), (348, 4238),

(354, 4271), (373, 4442), (376, 4466),

Gene: Maria1952_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for Maria1952_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (190, 2912), (209, 3029), (225, 3125), (230, 3152), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (363, 3914), (364, 3929), (373, 3998),

Gene: MeganNoll_6 Start: 4717, Stop: 6726, Start Num: 20

Candidate Starts for MeganNoll_6:

(Start: 20 @4717 has 86 MA's), (Start: 29 @4747 has 64 MA's), (62, 4843), (64, 4873), (66, 4885), (73, 4930), (92, 5032), (93, 5041), (100, 5071), (113, 5116), (114, 5122), (126, 5173), (138, 5218), (141, 5227), (151, 5290), (155, 5323), (160, 5368), (161, 5371), (175, 5503), (178, 5518), (187, 5587), (190, 5608), (193, 5620), (202, 5689), (205, 5701), (219, 5776), (225, 5821), (230, 5848), (280, 6100), (281, 6103), (290, 6148), (304, 6229), (310, 6259), (317, 6310), (344, 6460), (363, 6601), (373, 6685),

Gene: Melons_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Melons_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: Milomuff_5 Start: 2686, Stop: 4710, Start Num: 16

Candidate Starts for Milomuff_5:

(Start: 16 @2686 has 80 MA's), (24, 2719), (58, 2827), (60, 2836), (64, 2881), (65, 2884), (78, 2977), (100, 3076), (125, 3169), (143, 3244), (158, 3352), (160, 3379), (175, 3511), (176, 3517), (185, 3586), (190, 3616), (198, 3670), (205, 3709), (230, 3853), (245, 3931), (346, 4450), (358, 4513), (363, 4579),

Gene: Misaeng_6 Start: 4729, Stop: 6747, Start Num: 20

Candidate Starts for Misaeng_6:

(Start: 20 @4729 has 86 MA's), (39, 4795), (40, 4798), (66, 4906), (91, 5050), (92, 5053), (100, 5092), (114, 5143), (126, 5194), (129, 5203), (138, 5239), (153, 5323), (155, 5344), (161, 5392), (170, 5458), (175, 5524), (190, 5629), (191, 5632), (205, 5722), (210, 5749), (224, 5839), (225, 5842), (230, 5869), (281, 6124), (288, 6157), (304, 6250), (305, 6253), (310, 6280), (344, 6481), (363, 6622), (364, 6637), (373, 6706),

Gene: Moki_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Moki_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (56, 2118), (64, 2175), (66, 2187), (73, 2232), (99, 2370), (100, 2373), (114, 2424), (126, 2475), (129, 2484), (141, 2529), (151, 2592), (154, 2616), (160, 2670), (175, 2805), (178, 2820), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (280, 3402), (281, 3405), (290, 3450), (304, 3531), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: Morrey_7 Start: 3139, Stop: 5082, Start Num: 29

Candidate Starts for Morrey_7:

(Start: 29 @3139 has 64 MA's), (82, 3385), (91, 3433), (111, 3508), (116, 3526), (124, 3556), (157, 3718), (175, 3889), (190, 3994), (222, 4171), (230, 4231), (233, 4255), (235, 4264), (312, 4648), (319, 4705), (335, 4789), (348, 4840), (354, 4873),

Gene: MrBoss_6 Start: 4646, Stop: 6661, Start Num: 20

Candidate Starts for MrBoss_6:

(Start: 20 @4646 has 86 MA's), (28, 4673), (32, 4685), (Start: 38 @4706 has 1 MA's), (66, 4820), (72, 4862), (73, 4865), (86, 4937), (89, 4955), (92, 4967), (94, 4982), (99, 5003), (114, 5057), (117, 5066), (126, 5108), (128, 5114), (138, 5153), (141, 5162), (142, 5165), (151, 5225), (155, 5258), (160, 5303), (161, 5306), (175, 5438), (190, 5543), (205, 5636), (215, 5684), (225, 5756), (230, 5783), (281, 6038), (288, 6071), (289, 6074), (317, 6245), (319, 6263), (363, 6536), (373, 6620),

Gene: MrGloopy_6 Start: 4650, Stop: 6659, Start Num: 20

Candidate Starts for MrGloopy_6:

(Start: 20 @4650 has 86 MA's), (Start: 29 @4680 has 64 MA's), (62, 4776), (64, 4806), (66, 4818), (73, 4863), (92, 4965), (93, 4974), (100, 5004), (113, 5049), (114, 5055), (126, 5106), (138, 5151), (141, 5160), (151, 5223), (155, 5256), (160, 5301), (161, 5304), (175, 5436), (178, 5451), (187, 5520), (190, 5541), (193, 5553), (202, 5622), (205, 5634), (219, 5709), (225, 5754), (230, 5781), (280, 6033), (281, 6036), (290, 6081), (304, 6162), (310, 6192), (317, 6243), (344, 6393), (363, 6534), (373, 6618),

Gene: MsUbiquitous_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for MsUbiquitous_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216), (190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (275, 3720), (346, 4080), (358, 4143), (363, 4209),

Gene: Nancia_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Nancia_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (56, 2118), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (99, 2370), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (344, 3762), (363, 3903), (373, 3987),

Gene: Niblet_5 Start: 2684, Stop: 4648, Start Num: 29

Candidate Starts for Niblet_5:

(Start: 29 @2684 has 64 MA's), (53, 2756), (65, 2828), (81, 2930), (89, 2972), (92, 2984), (108, 3047), (109, 3050), (111, 3056), (117, 3077), (142, 3167), (152, 3236), (157, 3266), (175, 3446), (177, 3455), (190, 3551), (191, 3554), (193, 3563), (201, 3623), (204, 3641), (207, 3659), (222, 3728), (230, 3788), (233, 3812), (243, 3854), (245, 3866), (279, 4031), (288, 4073), (302, 4154), (306, 4166), (319, 4259), (322, 4280), (323, 4283), (339, 4358), (343, 4373), (363, 4523), (364, 4538), (375, 4628),

Gene: Nicky22_5 Start: 2791, Stop: 4815, Start Num: 16

Candidate Starts for Nicky22_5:

(Start: 16 @2791 has 80 MA's), (24, 2824), (58, 2932), (60, 2941), (64, 2986), (65, 2989), (78, 3082), (100, 3181), (125, 3274), (136, 3328), (143, 3349), (158, 3457), (160, 3484), (175, 3616), (176, 3622), (185, 3691), (190, 3721), (198, 3775), (205, 3814), (230, 3958), (245, 4036), (346, 4555), (358, 4618), (360, 4648), (363, 4684),

Gene: NoSwimming_6 Start: 4163, Stop: 6127, Start Num: 17

Candidate Starts for NoSwimming_6:

(Start: 17 @4163 has 2 MA's), (50, 4274), (61, 4313), (63, 4340), (65, 4352), (71, 4400), (95, 4532), (98, 4544), (139, 4697), (171, 4919), (175, 4955), (198, 5114), (206, 5165), (218, 5219), (243, 5363), (244, 5369), (260, 5471), (278, 5534), (295, 5630), (296, 5633), (319, 5759), (327, 5798), (364, 6017), (374, 6098),

Gene: Nubia_6 Start: 4652, Stop: 6670, Start Num: 20

Candidate Starts for Nubia_6:

(Start: 20 @4652 has 86 MA's), (39, 4718), (40, 4721), (64, 4817), (66, 4829), (91, 4973), (92, 4976), (100, 5015), (114, 5066), (126, 5117), (129, 5126), (138, 5162), (153, 5246), (155, 5267), (161, 5315), (170, 5381), (175, 5447), (185, 5522), (190, 5552), (191, 5555), (205, 5645), (210, 5672), (224, 5762), (225, 5765), (230, 5792), (281, 6047), (288, 6080), (305, 6176), (310, 6203), (344, 6404), (363, 6545), (364, 6560), (373, 6629),

Gene: OMalley_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for OMalley_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (134, 2511), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (209, 3030), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (310, 3573), (319, 3642), (344, 3774), (355, 3822), (363, 3915), (364, 3930), (373, 3999),

Gene: Olliecat_4 Start: 2543, Stop: 4600, Start Num: 16

Candidate Starts for Olliecat_4:

(Start: 16 @2543 has 80 MA's), (48, 2657), (58, 2684), (60, 2693), (64, 2738), (66, 2750), (86, 2864), (90, 2888), (117, 2984), (118, 2987), (124, 3014), (128, 3032), (149, 3134), (154, 3167), (159, 3215), (175, 3353), (189, 3446), (190, 3458), (192, 3467), (198, 3512), (201, 3530), (212, 3587), (225, 3668), (228, 3680), (230, 3695), (245, 3773), (288, 4010), (290, 4022), (318, 4193), (334, 4280), (346, 4343), (352, 4367), (357, 4391), (358, 4406), (360, 4442), (363, 4478), (370, 4544),

Gene: Oppalora_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for Oppalora_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (349, 4012), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Orcanus_5 Start: 2686, Stop: 4656, Start Num: 29

Candidate Starts for Orcanus_5:

(Start: 29 @2686 has 64 MA's), (65, 2830), (85, 2962), (89, 2989), (92, 3001), (104, 3052), (108, 3064), (109, 3067), (111, 3073), (117, 3094), (142, 3184), (157, 3283), (175, 3463), (177, 3472), (190, 3568), (191, 3571), (193, 3580), (201, 3640), (204, 3658), (207, 3676), (222, 3745), (230, 3805), (233, 3829), (243, 3871), (245, 3883), (266, 3997), (279, 4045), (288, 4087), (319, 4273), (332, 4333), (339, 4366), (352, 4426), (363, 4531), (371, 4600), (373, 4615), (375, 4636),

Gene: OtsoOtso_5 Start: 2714, Stop: 4657, Start Num: 29

Candidate Starts for OtsoOtso_5:

(Start: 29 @2714 has 64 MA's), (41, 2756), (53, 2786), (63, 2846), (64, 2855), (65, 2858), (66, 2867), (88, 2999), (89, 3002), (110, 3083), (117, 3107), (142, 3197), (157, 3296), (175, 3476), (177, 3485), (181, 3527), (190, 3581), (191, 3584), (193, 3593), (204, 3671), (207, 3689), (230, 3818), (233, 3842), (243, 3884), (245, 3896), (279, 4040), (288, 4082), (306, 4175), (315, 4238), (319, 4268), (323, 4292), (359, 4481), (363, 4532), (364, 4547), (371, 4601),

Gene: OurGirlNessie_3 Start: 2010, Stop: 4019, Start Num: 20

Candidate Starts for OurGirlNessie_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (62, 2136), (64, 2166), (66, 2178), (73, 2223), (92, 2325), (93, 2334), (94, 2340), (96, 2355), (100, 2364), (113, 2409), (114, 2415), (128,

2472), (129, 2475), (141, 2520), (151, 2583), (155, 2616), (160, 2661), (161, 2664), (175, 2796), (178, 2811), (182, 2856), (187, 2880), (190, 2901), (193, 2913), (205, 2994), (215, 3042), (219, 3069), (225, 3114), (230, 3141), (245, 3219), (267, 3336), (280, 3393), (281, 3396), (290, 3441), (304, 3522), (344, 3753), (363, 3894), (373, 3978),

Gene: Oxynfrius_6 Start: 4665, Stop: 6683, Start Num: 20

Candidate Starts for Oxynfrius_6:

(Start: 20 @4665 has 86 MA's), (39, 4731), (40, 4734), (64, 4830), (66, 4842), (91, 4986), (92, 4989), (100, 5028), (114, 5079), (126, 5130), (129, 5139), (138, 5175), (153, 5259), (155, 5280), (161, 5328), (170, 5394), (175, 5460), (190, 5565), (191, 5568), (205, 5658), (210, 5685), (224, 5775), (225, 5778), (230, 5805), (281, 6060), (288, 6093), (305, 6189), (310, 6216), (344, 6417), (363, 6558), (364, 6573), (373, 6642),

Gene: PFR1_03 Start: 2000, Stop: 4156, Start Num: 13

Candidate Starts for PFR1_03:

(13, 2000), (18, 2027), (30, 2072), (60, 2165), (63, 2201), (64, 2210), (69, 2249), (70, 2255), (81, 2315), (84, 2339), (86, 2342), (107, 2435), (113, 2453), (115, 2462), (117, 2468), (124, 2498), (146, 2600), (148, 2609), (151, 2627), (161, 2708), (166, 2729), (173, 2810), (175, 2825), (185, 2900), (186, 2906), (189, 2918), (194, 2945), (196, 2972), (201, 3005), (203, 3017), (217, 3083), (219, 3098), (221, 3107), (226, 3152), (227, 3155), (234, 3197), (235, 3203), (239, 3224), (249, 3287), (258, 3347), (272, 3425), (278, 3452), (281, 3473), (283, 3488), (285, 3497), (287, 3509), (294, 3599), (307, 3653), (311, 3677), (320, 3752), (323, 3773), (332, 3809), (337, 3845), (340, 3857), (342, 3869), (345, 3890), (356, 3938), (363, 4034), (364, 4049), (365, 4055), (367, 4079),

Gene: PFR2_03 Start: 2000, Stop: 4156, Start Num: 13

Candidate Starts for PFR2_03:

(13, 2000), (18, 2027), (30, 2072), (60, 2165), (63, 2201), (64, 2210), (69, 2249), (70, 2255), (81, 2315), (84, 2339), (86, 2342), (107, 2435), (113, 2453), (115, 2462), (117, 2468), (124, 2498), (146, 2600), (148, 2609), (151, 2627), (161, 2708), (166, 2729), (173, 2810), (175, 2825), (185, 2900), (186, 2906), (189, 2918), (194, 2945), (196, 2972), (201, 3005), (203, 3017), (217, 3083), (219, 3098), (221, 3107), (226, 3152), (227, 3155), (234, 3197), (235, 3203), (239, 3224), (249, 3287), (258, 3347), (272, 3425), (278, 3452), (281, 3473), (283, 3488), (285, 3497), (287, 3509), (294, 3599), (307, 3653), (311, 3677), (320, 3752), (323, 3773), (332, 3809), (337, 3845), (340, 3857), (342, 3869), (345, 3890), (356, 3938), (363, 4034), (364, 4049), (365, 4055), (367, 4079),

Gene: PartyCup_6 Start: 4693, Stop: 6708, Start Num: 20

Candidate Starts for PartyCup_6:

(Start: 20 @4693 has 86 MA's), (28, 4720), (32, 4732), (Start: 38 @4753 has 1 MA's), (66, 4867), (72, 4909), (73, 4912), (86, 4984), (89, 5002), (92, 5014), (99, 5050), (113, 5098), (114, 5104), (117, 5113), (126, 5155), (128, 5161), (138, 5200), (141, 5209), (142, 5212), (151, 5272), (155, 5305), (160, 5350), (161, 5353), (175, 5485), (190, 5590), (205, 5683), (215, 5731), (225, 5803), (230, 5830), (281, 6085), (288, 6118), (289, 6121), (317, 6292), (319, 6310), (363, 6583), (373, 6667),

Gene: PastaFagioli_4 Start: 2406, Stop: 4427, Start Num: 16

Candidate Starts for PastaFagioli_4:

(Start: 16 @2406 has 80 MA's), (60, 2556), (64, 2601), (65, 2604), (78, 2697), (125, 2889), (143, 2958), (158, 3066), (160, 3093), (175, 3225), (176, 3231), (185, 3300), (190, 3330), (198, 3384), (205, 3423), (230, 3567), (245, 3645), (247, 3672), (286, 3855), (315, 4017), (357, 4215), (358, 4230), (363, 4296), (364, 4311), (368, 4344),

Gene: Pecas_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for Pecas_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (136, 2853), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216), (190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (346, 4080), (357, 4128), (358, 4143), (363, 4209),

Gene: Pelletreau_6 Start: 2893, Stop: 4863, Start Num: 29

Candidate Starts for Pelletreau_6:

(Start: 29 @2893 has 64 MA's), (65, 3037), (85, 3169), (89, 3196), (92, 3208), (104, 3259), (108, 3271), (109, 3274), (111, 3280), (117, 3301), (142, 3391), (157, 3490), (175, 3670), (177, 3679), (190, 3775), (191, 3778), (193, 3787), (201, 3847), (204, 3865), (207, 3883), (222, 3952), (230, 4012), (233, 4036), (243, 4078), (245, 4090), (266, 4204), (279, 4252), (288, 4294), (319, 4480), (332, 4540), (339, 4573), (352, 4633), (363, 4738), (371, 4807), (373, 4822), (375, 4843),

Gene: PhigPhack_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for PhigPhack_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (65, 2527), (78, 2620), (100, 2719), (125, 2812), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (185, 3229), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: PhirstandPhine_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for PhirstandPhine_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (66, 3028), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (363, 4693), (364, 4708), (371, 4762),

Gene: Phisb_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for Phisb_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (136, 2854), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (346, 4081), (358, 4144), (363, 4210),

Gene: PhluffyCoco_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for PhluffyCoco_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Pigu_4 Start: 1775, Stop: 3733, Start Num: 23

Candidate Starts for Pigu_4:

(23, 1775), (54, 1874), (62, 1907), (67, 1961), (82, 2045), (86, 2066), (105, 2153), (110, 2168), (119, 2204), (120, 2207), (130, 2246), (134, 2267), (141, 2288), (142, 2291), (145, 2321), (149, 2342), (151, 2351), (156, 2387), (158, 2402), (159, 2423), (161, 2432), (175, 2561), (184, 2630), (185, 2636), (189, 2654), (190, 2666), (198, 2720), (203, 2750), (212, 2795), (230, 2906), (233, 2930), (244, 2978), (245, 2984), (259, 3056), (276, 3122), (277, 3125), (280, 3134), (312, 3302), (315, 3329), (341, 3458), (348, 3491), (353, 3512), (354, 3524), (376, 3719),

Gene: Pineda_6 Start: 2875, Stop: 4818, Start Num: 29

Candidate Starts for Pineda_6:

(Start: 29 @2875 has 64 MA's), (47, 2935), (63, 3007), (64, 3016), (65, 3019), (76, 3097), (88, 3160), (89, 3163), (110, 3244), (117, 3268), (142, 3358), (152, 3427), (157, 3457), (175, 3637), (177, 3646), (181, 3688), (190, 3742), (191, 3745), (193, 3754), (204, 3832), (207, 3850), (230, 3979), (233, 4003), (243, 4045), (245, 4057), (279, 4201), (288, 4243), (306, 4336), (315, 4399), (319, 4429), (323, 4453), (359, 4642), (363, 4693), (364, 4708), (371, 4762),

Gene: PinkFriday_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for PinkFriday_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (62, 2147), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (126, 2477), (134, 2510), (138, 2522), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (185, 2882), (190, 2912), (209, 3029), (225, 3125), (235, 3185), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (290, 3461), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (350, 3794), (355, 3821), (363, 3914), (364, 3929), (373, 3998),

Gene: PitaDog_3 Start: 2010, Stop: 4019, Start Num: 20

Candidate Starts for PitaDog_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (62, 2136), (64, 2166), (66, 2178), (73, 2223), (92, 2325), (93, 2334), (94, 2340), (96, 2355), (100, 2364), (113, 2409), (114, 2415), (128, 2472), (129, 2475), (138, 2511), (141, 2520), (151, 2583), (155, 2616), (160, 2661), (161, 2664), (175, 2796), (178, 2811), (187, 2880), (190, 2901), (193, 2913), (205, 2994), (215, 3042), (219, 3069), (225, 3114), (230, 3141), (245, 3219), (267, 3336), (280, 3393), (281, 3396), (290, 3441), (304, 3522), (344, 3753), (363, 3894), (373, 3978),

Gene: Polka_5 Start: 2714, Stop: 4657, Start Num: 29

Candidate Starts for Polka_5:

(Start: 29 @2714 has 64 MA's), (41, 2756), (53, 2786), (63, 2846), (64, 2855), (65, 2858), (66, 2867), (88, 2999), (89, 3002), (110, 3083), (117, 3107), (142, 3197), (157, 3296), (175, 3476), (177, 3485), (181, 3527), (190, 3581), (191, 3584), (193, 3593), (204, 3671), (207, 3689), (230, 3818), (233, 3842), (243, 3884), (245, 3896), (279, 4040), (288, 4082), (306, 4175), (315, 4238), (319, 4268), (323, 4292), (359, 4481), (363, 4532), (364, 4547), (371, 4601),

Gene: PondAmelia_6 Start: 2596, Stop: 4611, Start Num: 16

Candidate Starts for PondAmelia_6:

(Start: 16 @2596 has 80 MA's), (22, 2623), (24, 2626), (49, 2701), (60, 2737), (64, 2782), (65, 2785), (76, 2863), (86, 2911), (100, 2977), (129, 3082), (150, 3193), (158, 3250), (160, 3277), (175, 3409), (176, 3415), (185, 3484), (190, 3514), (192, 3523), (198, 3571), (203, 3601), (230, 3754), (245, 3832), (346, 4351), (358, 4414), (363, 4480), (370, 4546), (373, 4564),

Gene: Potatoes_6 Start: 4711, Stop: 6720, Start Num: 20

Candidate Starts for Potatoes_6:

(Start: 20 @4711 has 86 MA's), (Start: 29 @4741 has 64 MA's), (62, 4837), (64, 4867), (66, 4879), (73, 4924), (92, 5026), (93, 5035), (100, 5065), (113, 5110), (114, 5116), (126, 5167), (138, 5212), (141, 5221), (151, 5284), (155, 5317), (160, 5362), (161, 5365), (175, 5497), (178, 5512), (187, 5581), (190, 5602), (193, 5614), (202, 5683), (205, 5695), (219, 5770), (225, 5815), (230, 5842), (280, 6094), (281, 6097), (290, 6142), (304, 6223), (310, 6253), (317, 6304), (344, 6454), (363, 6595), (373, 6679),

Gene: PrairieDogTown_5 Start: 3139, Stop: 5082, Start Num: 29

Candidate Starts for PrairieDogTown_5:

(Start: 29 @3139 has 64 MA's), (82, 3385), (91, 3433), (111, 3508), (116, 3526), (124, 3556), (157, 3718), (175, 3889), (190, 3994), (222, 4171), (230, 4231), (233, 4255), (235, 4264), (312, 4648), (319, 4705), (335, 4789), (348, 4840), (354, 4873),

Gene: Preamble_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for Preamble_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (113, 2418), (114, 2424), (138, 2520), (141, 2529), (148, 2574), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (190, 2910), (191, 2913), (193, 2922), (205, 3003), (210, 3030), (212, 3039), (225, 3123), (230, 3150), (281, 3405), (290, 3450), (302, 3525), (304, 3531), (317, 3612), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: Pterodactyl_3 Start: 2010, Stop: 4019, Start Num: 20

Candidate Starts for Pterodactyl_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (62, 2136), (64, 2166), (66, 2178), (73, 2223), (92, 2325), (93, 2334), (94, 2340), (96, 2355), (100, 2364), (113, 2409), (114, 2415), (128, 2472), (129, 2475), (138, 2511), (141, 2520), (151, 2583), (155, 2616), (160, 2661), (161, 2664), (175, 2796), (178, 2811), (187, 2880), (190, 2901), (193, 2913), (205, 2994), (215, 3042), (219, 3069), (225, 3114), (230, 3141), (245, 3219), (267, 3336), (280, 3393), (281, 3396), (290, 3441), (304, 3522), (344, 3753), (363, 3894), (373, 3978),

Gene: Pumancara_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for Pumancara_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (126, 2477), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (185, 2882), (190, 2912), (209, 3029), (225, 3125), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (290, 3461), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (362, 3878), (363, 3914), (364, 3929), (373, 3998),

Gene: Puppies_3 Start: 2078, Stop: 3436, Start Num: 20

Candidate Starts for Puppies_3:

(Start: 20 @2078 has 86 MA's), (24, 2087), (36, 2135), (66, 2243), (82, 2339), (97, 2423), (108, 2462), (135, 2570), (141, 2588), (144, 2615), (149, 2642), (155, 2684), (163, 2747), (175, 2864), (180, 2909), (185, 2939), (190, 2969), (198, 3023), (207, 3077), (230, 3212), (234, 3239),

Gene: QMacho_5 Start: 2799, Stop: 4823, Start Num: 16

Candidate Starts for QMacho_5:

(Start: 16 @2799 has 80 MA's), (24, 2832), (58, 2940), (60, 2949), (64, 2994), (65, 2997), (78, 3090), (100, 3189), (125, 3282), (136, 3336), (143, 3357), (158, 3465), (160, 3492), (175, 3624), (176, 3630), (185, 3699), (190, 3729), (198, 3783), (205, 3822), (230, 3966), (245, 4044), (346, 4563), (357, 4611), (358, 4626), (363, 4692),

Gene: Quenya_5 Start: 2508, Stop: 4526, Start Num: 16

Candidate Starts for Quenya_5:

(Start: 16 @2508 has 80 MA's), (22, 2535), (24, 2538), (34, 2571), (35, 2580), (46, 2604), (58, 2640), (60, 2649), (64, 2694), (65, 2697), (66, 2706), (86, 2823), (96, 2883), (128, 2994), (150, 3099), (155, 3138), (158, 3156), (160, 3183), (162, 3189), (169, 3249), (175, 3315), (190, 3420), (192, 3429), (195, 3459), (198, 3477), (210, 3543), (224, 3630), (230, 3660), (235, 3693), (245, 3738), (279, 3918), (346, 4269), (357, 4317), (363, 4398), (368, 4446), (370, 4464),

Gene: RAP15_6 Start: 4717, Stop: 6726, Start Num: 20

Candidate Starts for RAP15_6:

(Start: 20 @4717 has 86 MA's), (Start: 29 @4747 has 64 MA's), (62, 4843), (64, 4873), (66, 4885), (73, 4930), (92, 5032), (93, 5041), (100, 5071), (113, 5116), (114, 5122), (126, 5173), (138, 5218), (141, 5227), (151, 5290), (155, 5323), (160, 5368), (161, 5371), (175, 5503), (178, 5518), (187, 5587), (190, 5608), (193, 5620), (202, 5689), (205, 5701), (219, 5776), (225, 5821), (230, 5848), (280, 6100), (281,

6103), (290, 6148), (304, 6229), (310, 6259), (317, 6310), (344, 6460), (363, 6601), (373, 6685),

Gene: Rattail_4 Start: 2383, Stop: 4302, Start Num: 29

Candidate Starts for Rattail_4:

(Start: 29 @2383 has 64 MA's), (45, 2437), (63, 2512), (65, 2524), (73, 2578), (89, 2668), (101, 2722), (117, 2770), (118, 2773), (142, 2857), (157, 2956), (163, 3013), (168, 3067), (175, 3136), (177, 3145), (190, 3241), (191, 3244), (193, 3253), (204, 3331), (216, 3388), (230, 3478), (233, 3502), (243, 3544), (245, 3556), (279, 3694), (288, 3736), (300, 3808), (319, 3922), (323, 3946), (339, 4012), (341, 4021), (352, 4072), (359, 4126), (363, 4177), (364, 4192), (371, 4246),

Gene: RcigaStruga_6 Start: 4664, Stop: 6682, Start Num: 20

Candidate Starts for RcigaStruga_6:

(Start: 20 @4664 has 86 MA's), (39, 4730), (66, 4841), (91, 4985), (92, 4988), (99, 5024), (100, 5027), (114, 5078), (126, 5129), (129, 5138), (138, 5174), (153, 5258), (155, 5279), (161, 5327), (170, 5393), (175, 5459), (190, 5564), (191, 5567), (205, 5657), (210, 5684), (224, 5774), (225, 5777), (230, 5804), (281, 6059), (288, 6092), (304, 6185), (305, 6188), (310, 6215), (344, 6416), (363, 6557), (364, 6572), (373, 6641),

Gene: RedFox_4 Start: 2335, Stop: 4254, Start Num: 29

Candidate Starts for RedFox_4:

(Start: 29 @2335 has 64 MA's), (45, 2389), (63, 2464), (65, 2476), (73, 2530), (89, 2620), (101, 2674), (117, 2722), (118, 2725), (142, 2809), (157, 2908), (168, 3019), (175, 3088), (177, 3097), (190, 3193), (191, 3196), (193, 3205), (204, 3283), (207, 3301), (216, 3340), (230, 3430), (233, 3454), (243, 3496), (245, 3508), (279, 3646), (288, 3688), (300, 3760), (319, 3874), (323, 3898), (339, 3964), (341, 3973), (352, 4024), (359, 4078), (363, 4129), (364, 4144), (371, 4198),

Gene: Renna12_5 Start: 2548, Stop: 4458, Start Num: 29

Candidate Starts for Renna12_5:

(Start: 29 @2548 has 64 MA's), (45, 2602), (63, 2677), (65, 2689), (73, 2743), (89, 2833), (101, 2887), (117, 2935), (141, 3019), (142, 3022), (157, 3121), (175, 3301), (177, 3310), (190, 3406), (191, 3409), (193, 3418), (204, 3496), (207, 3514), (216, 3553), (228, 3628), (230, 3643), (233, 3667), (243, 3709), (245, 3721), (250, 3763), (279, 3850), (288, 3892), (300, 3964), (319, 4078), (323, 4102), (328, 4126), (339, 4168), (341, 4177), (352, 4228), (359, 4282), (363, 4333), (364, 4348), (371, 4402),

Gene: Riovina_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for Riovina_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (134, 2511), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (209, 3030), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (310, 3573), (319, 3642), (344, 3774), (355, 3822), (363, 3915), (364, 3930), (373, 3999),

Gene: Riverdale_6 Start: 4648, Stop: 6657, Start Num: 20

Candidate Starts for Riverdale_6:

(Start: 20 @4648 has 86 MA's), (Start: 29 @4678 has 64 MA's), (62, 4774), (64, 4804), (66, 4816), (73, 4861), (92, 4963), (93, 4972), (100, 5002), (113, 5047), (114, 5053), (126, 5104), (138, 5149), (141, 5158), (151, 5221), (155, 5254), (160, 5299), (161, 5302), (175, 5434), (178, 5449), (187, 5518), (190, 5539), (193, 5551), (202, 5620), (205, 5632), (219, 5707), (225, 5752), (230, 5779), (255, 5932), (280, 6031), (281, 6034), (290, 6079), (304, 6160), (310, 6190), (317, 6241), (344, 6391), (363, 6532), (373, 6616),

Gene: Rollins_3 Start: 2230, Stop: 4281, Start Num: 16

Candidate Starts for Rollins_3:

(Start: 16 @2230 has 80 MA's), (39, 2314), (49, 2344), (58, 2371), (60, 2380), (65, 2428), (90, 2575), (95, 2605), (96, 2611), (155, 2863), (158, 2881), (160, 2908), (162, 2914), (175, 3040), (190, 3145), (192, 3154), (195, 3184), (198, 3202), (230, 3385), (243, 3451), (245, 3463), (288, 3697), (306, 3793), (348, 4030), (349, 4036), (353, 4051), (357, 4072), (363, 4153), (370, 4219),

Gene: Rona_4 Start: 2572, Stop: 4596, Start Num: 16

Candidate Starts for Rona_4:

(Start: 16 @2572 has 80 MA's), (22, 2599), (24, 2602), (34, 2635), (35, 2644), (49, 2677), (60, 2713), (64, 2758), (76, 2839), (86, 2887), (125, 3040), (129, 3058), (136, 3097), (150, 3169), (155, 3208), (158, 3226), (160, 3253), (175, 3385), (176, 3391), (190, 3490), (192, 3499), (198, 3547), (203, 3577), (211, 3619), (230, 3730), (235, 3763), (245, 3808), (286, 4027), (315, 4189), (325, 4255), (346, 4339), (350, 4354), (368, 4516), (370, 4534),

Gene: Rooter_4 Start: 1803, Stop: 3764, Start Num: 21

Candidate Starts for Rooter_4:

(Start: 21 @1803 has 1 MA's), (36, 1857), (54, 1902), (60, 1920), (62, 1935), (64, 1965), (73, 2022), (77, 2058), (86, 2094), (89, 2112), (105, 2181), (110, 2196), (119, 2232), (120, 2235), (145, 2349), (149, 2370), (151, 2379), (153, 2391), (158, 2430), (175, 2589), (189, 2682), (190, 2694), (195, 2730), (198, 2748), (212, 2823), (230, 2934), (233, 2958), (244, 3006), (277, 3153), (280, 3162), (288, 3198), (301, 3276), (309, 3312), (312, 3330), (315, 3357), (323, 3411), (329, 3438), (339, 3480), (348, 3522), (354, 3555), (359, 3591), (376, 3750),

Gene: Rozby_6 Start: 4648, Stop: 6657, Start Num: 20

Candidate Starts for Rozby_6:

(Start: 20 @4648 has 86 MA's), (Start: 29 @4678 has 64 MA's), (56, 4747), (62, 4774), (64, 4804), (66, 4816), (73, 4861), (92, 4963), (93, 4972), (100, 5002), (113, 5047), (114, 5053), (126, 5104), (138, 5149), (141, 5158), (151, 5221), (155, 5254), (160, 5299), (161, 5302), (175, 5434), (178, 5449), (187, 5518), (190, 5539), (193, 5551), (202, 5620), (205, 5632), (219, 5707), (225, 5752), (230, 5779), (280, 6031), (281, 6034), (290, 6079), (304, 6160), (310, 6190), (317, 6241), (344, 6391), (363, 6532), (373, 6616),

Gene: Ruchi_5 Start: 2958, Stop: 4898, Start Num: 29

Candidate Starts for Ruchi_5:

(Start: 29 @2958 has 64 MA's), (53, 3030), (64, 3099), (65, 3102), (78, 3195), (89, 3246), (92, 3258), (113, 3336), (117, 3351), (142, 3441), (157, 3540), (165, 3603), (175, 3720), (190, 3825), (192, 3834), (193, 3837), (201, 3897), (204, 3915), (207, 3933), (208, 3936), (222, 4002), (230, 4062), (233, 4086), (243, 4128), (245, 4140), (279, 4281), (288, 4323), (306, 4416), (319, 4509), (323, 4533), (359, 4722), (363, 4773), (364, 4788), (373, 4857), (377, 4884), (378, 4890),

Gene: SanaSana_5 Start: 2596, Stop: 4611, Start Num: 16

Candidate Starts for SanaSana_5:

(Start: 16 @2596 has 80 MA's), (22, 2623), (24, 2626), (49, 2701), (60, 2737), (64, 2782), (65, 2785), (76, 2863), (86, 2911), (100, 2977), (129, 3082), (150, 3193), (158, 3250), (160, 3277), (175, 3409), (176, 3415), (185, 3484), (190, 3514), (192, 3523), (198, 3571), (203, 3601), (230, 3754), (245, 3832), (346, 4351), (358, 4414), (363, 4480), (370, 4546), (373, 4564),

Gene: SansAfet_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for SansAfet_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (346, 4081), (358, 4144), (363, 4210),

Gene: SarBear_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for SarBear_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216), (190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (346, 4080), (358, 4143), (363, 4209),

Gene: Sarge_4 Start: 2058, Stop: 3983, Start Num: 29

Candidate Starts for Sarge_4:

(Start: 29 @2058 has 64 MA's), (35, 2085), (55, 2133), (78, 2292), (92, 2355), (99, 2391), (110, 2427), (116, 2448), (123, 2475), (153, 2613), (159, 2673), (175, 2811), (177, 2820), (190, 2916), (193, 2928), (207, 3024), (222, 3093), (256, 3303), (277, 3372), (280, 3381), (291, 3432), (311, 3540), (312, 3549), (313, 3555), (323, 3630), (328, 3654), (339, 3699), (341, 3708), (348, 3741), (354, 3774), (359, 3810), (376, 3969),

Gene: Savage2526_6 Start: 4711, Stop: 6720, Start Num: 20

Candidate Starts for Savage2526_6:

(Start: 20 @4711 has 86 MA's), (Start: 29 @4741 has 64 MA's), (62, 4837), (64, 4867), (66, 4879), (73, 4924), (92, 5026), (93, 5035), (100, 5065), (113, 5110), (114, 5116), (126, 5167), (138, 5212), (141, 5221), (151, 5284), (155, 5317), (160, 5362), (161, 5365), (175, 5497), (178, 5512), (187, 5581), (190, 5602), (193, 5614), (202, 5683), (205, 5695), (219, 5770), (225, 5815), (230, 5842), (255, 5995), (280, 6094), (281, 6097), (290, 6142), (304, 6223), (310, 6253), (317, 6304), (344, 6454), (363, 6595), (373, 6679),

Gene: Scotia_6 Start: 4163, Stop: 6127, Start Num: 17

Candidate Starts for Scotia_6:

(Start: 17 @4163 has 2 MA's), (50, 4274), (61, 4313), (63, 4340), (65, 4352), (71, 4400), (95, 4532), (98, 4544), (139, 4697), (171, 4919), (175, 4955), (198, 5114), (206, 5165), (218, 5219), (243, 5363), (244, 5369), (260, 5471), (278, 5534), (295, 5630), (296, 5633), (319, 5759), (327, 5798), (364, 6017), (374, 6098),

Gene: Scuttle_6 Start: 4717, Stop: 6726, Start Num: 20

Candidate Starts for Scuttle_6:

(Start: 20 @4717 has 86 MA's), (Start: 29 @4747 has 64 MA's), (62, 4843), (64, 4873), (66, 4885), (73, 4930), (92, 5032), (93, 5041), (100, 5071), (113, 5116), (114, 5122), (126, 5173), (138, 5218), (141, 5227), (151, 5290), (155, 5323), (160, 5368), (161, 5371), (175, 5503), (178, 5518), (187, 5587), (190, 5608), (193, 5620), (202, 5689), (205, 5701), (219, 5776), (225, 5821), (230, 5848), (255, 6001), (281, 6103), (290, 6148), (304, 6229), (310, 6259), (317, 6310), (344, 6460), (363, 6601), (373, 6685),

Gene: Sergei_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for Sergei_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (190, 2912), (209, 3029), (225, 3125), (230, 3152), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (363, 3914), (364, 3929), (373, 3998),

Gene: Sharkboy_4 Start: 2571, Stop: 4595, Start Num: 16

Candidate Starts for Sharkboy_4:

(Start: 16 @2571 has 80 MA's), (22, 2598), (24, 2601), (34, 2634), (35, 2643), (49, 2676), (60, 2712), (64, 2757), (86, 2886), (125, 3039), (129, 3057), (136, 3096), (150, 3168), (155, 3207), (158, 3225), (160, 3252), (175, 3384), (176, 3390), (190, 3489), (192, 3498), (198, 3546), (203, 3576), (211, 3618), (230, 3729), (235, 3762), (245, 3807), (286, 4026), (315, 4188), (325, 4254), (346, 4338), (350, 4353), (368, 4515), (370, 4533),

Gene: Shayna_3 Start: 2294, Stop: 4342, Start Num: 16

Candidate Starts for Shayna_3:

(Start: 16 @2294 has 80 MA's), (48, 2405), (60, 2444), (64, 2489), (71, 2540), (100, 2684), (120, 2756), (125, 2777), (131, 2810), (158, 2957), (160, 2984), (175, 3116), (176, 3122), (183, 3182), (189, 3209), (190, 3221), (191, 3224), (192, 3230), (198, 3275), (230, 3458), (234, 3485), (235, 3491), (245, 3536), (247, 3563), (299, 3824), (358, 4145), (363, 4217), (370, 4283), (375, 4322),

Gene: Shen_6 Start: 2893, Stop: 4863, Start Num: 29

Candidate Starts for Shen_6:

(Start: 29 @2893 has 64 MA's), (65, 3037), (85, 3169), (89, 3196), (92, 3208), (104, 3259), (108, 3271), (109, 3274), (111, 3280), (117, 3301), (142, 3391), (157, 3490), (175, 3670), (177, 3679), (190, 3775), (191, 3778), (193, 3787), (201, 3847), (204, 3865), (207, 3883), (222, 3952), (230, 4012), (233, 4036), (243, 4078), (245, 4090), (266, 4204), (279, 4252), (288, 4294), (319, 4480), (332, 4540), (339, 4573), (352, 4633), (363, 4738), (371, 4807), (373, 4822), (375, 4843),

Gene: Shoya_3 Start: 1803, Stop: 3764, Start Num: 21

Candidate Starts for Shoya_3:

(Start: 21 @1803 has 1 MA's), (36, 1857), (54, 1902), (60, 1920), (62, 1935), (64, 1965), (73, 2022), (77, 2058), (82, 2073), (86, 2094), (89, 2112), (105, 2181), (110, 2196), (120, 2235), (145, 2349), (149, 2370), (161, 2460), (175, 2589), (189, 2682), (190, 2694), (195, 2730), (198, 2748), (202, 2775), (212, 2823), (213, 2829), (230, 2934), (233, 2958), (259, 3084), (261, 3096), (277, 3153), (280, 3162), (288, 3198), (301, 3276), (309, 3312), (312, 3330), (315, 3357), (323, 3411), (339, 3480), (348, 3522), (354, 3555), (359, 3591), (376, 3750),

Gene: SirBeanington_4 Start: 2317, Stop: 4341, Start Num: 16

Candidate Starts for SirBeanington_4:

(Start: 16 @2317 has 80 MA's), (24, 2350), (58, 2458), (60, 2467), (64, 2512), (65, 2515), (78, 2608), (100, 2707), (125, 2800), (143, 2875), (158, 2983), (160, 3010), (175, 3142), (176, 3148), (190, 3247), (198, 3301), (205, 3340), (230, 3484), (245, 3562), (346, 4081), (358, 4144), (363, 4210),

Gene: Skylord_3 Start: 2170, Stop: 4221, Start Num: 16

Candidate Starts for Skylord_3:

(Start: 16 @2170 has 80 MA's), (39, 2254), (49, 2284), (58, 2311), (60, 2320), (65, 2368), (90, 2515), (95, 2545), (96, 2551), (155, 2803), (158, 2821), (160, 2848), (162, 2854), (175, 2980), (190, 3085), (192, 3094), (195, 3124), (198, 3142), (230, 3325), (243, 3391), (245, 3403), (288, 3637), (306, 3733), (348, 3970), (349, 3976), (353, 3991), (357, 4012), (363, 4093), (370, 4159),

Gene: Slay_4 Start: 2793, Stop: 4817, Start Num: 16

Candidate Starts for Slay_4:

(Start: 16 @2793 has 80 MA's), (24, 2826), (58, 2934), (60, 2943), (64, 2988), (65, 2991), (78, 3084), (100, 3183), (125, 3276), (143, 3351), (158, 3459), (160, 3486), (175, 3618), (176, 3624), (185, 3693), (190, 3723), (198, 3777), (205, 3816), (230, 3960), (245, 4038), (346, 4557), (358, 4620),

Gene: Softsoap_4 Start: 2329, Stop: 4353, Start Num: 16

Candidate Starts for Softsoap_4:

(Start: 16 @2329 has 80 MA's), (24, 2362), (58, 2470), (60, 2479), (64, 2524), (78, 2620), (100, 2719), (125, 2812), (136, 2866), (143, 2887), (158, 2995), (160, 3022), (175, 3154), (176, 3160), (190, 3259), (198, 3313), (205, 3352), (230, 3496), (245, 3574), (346, 4093), (358, 4156), (363, 4222),

Gene: Solea_5 Start: 2686, Stop: 4710, Start Num: 16

Candidate Starts for Solea_5:

(Start: 16 @2686 has 80 MA's), (24, 2719), (58, 2827), (60, 2836), (64, 2881), (65, 2884), (78, 2977), (100, 3076), (125, 3169), (143, 3244), (158, 3352), (160, 3379), (175, 3511), (176, 3517), (185, 3586),

(190, 3616), (198, 3670), (205, 3709), (230, 3853), (245, 3931), (346, 4450), (358, 4513), (363, 4579),

Gene: Squiracle_4 Start: 2543, Stop: 4600, Start Num: 16

Candidate Starts for Squiracle_4:

(Start: 16 @2543 has 80 MA's), (48, 2657), (58, 2684), (60, 2693), (64, 2738), (66, 2750), (86, 2864), (90, 2888), (117, 2984), (118, 2987), (124, 3014), (128, 3032), (149, 3134), (154, 3167), (159, 3215), (175, 3353), (189, 3446), (190, 3458), (192, 3467), (198, 3512), (201, 3530), (212, 3587), (225, 3668), (228, 3680), (230, 3695), (245, 3773), (288, 4010), (290, 4022), (318, 4193), (334, 4280), (346, 4343), (352, 4367), (357, 4391), (358, 4406), (360, 4442), (363, 4478), (370, 4544),

Gene: Stoor_4 Start: 2593, Stop: 4608, Start Num: 16

Candidate Starts for Stoor_4:

(Start: 16 @2593 has 80 MA's), (22, 2620), (24, 2623), (49, 2698), (60, 2734), (64, 2779), (65, 2782), (86, 2908), (100, 2974), (129, 3079), (143, 3139), (158, 3247), (160, 3274), (175, 3406), (176, 3412), (185, 3481), (190, 3511), (192, 3520), (198, 3568), (203, 3598), (230, 3751), (245, 3829), (332, 4288), (346, 4348), (358, 4411), (363, 4477),

Gene: Stromboli_4 Start: 2593, Stop: 4608, Start Num: 16

Candidate Starts for Stromboli_4:

(Start: 16 @2593 has 80 MA's), (22, 2620), (24, 2623), (49, 2698), (60, 2734), (64, 2779), (65, 2782), (86, 2908), (100, 2974), (129, 3079), (143, 3139), (158, 3247), (160, 3274), (175, 3406), (176, 3412), (185, 3481), (190, 3511), (192, 3520), (198, 3568), (203, 3598), (230, 3751), (245, 3829), (332, 4288), (346, 4348), (358, 4411), (363, 4477),

Gene: StuartMinion_4 Start: 2342, Stop: 4264, Start Num: 29

Candidate Starts for StuartMinion_4:

(Start: 29 @2342 has 64 MA's), (45, 2396), (63, 2471), (65, 2483), (73, 2537), (89, 2627), (101, 2681), (142, 2816), (157, 2915), (175, 3095), (177, 3104), (190, 3200), (191, 3203), (193, 3212), (204, 3290), (216, 3347), (230, 3437), (233, 3461), (243, 3503), (245, 3515), (252, 3581), (279, 3656), (288, 3698), (290, 3710), (306, 3791), (308, 3803), (319, 3884), (323, 3908), (339, 3974), (359, 4088), (363, 4139), (364, 4154), (371, 4208),

Gene: SunnyD_3 Start: 2294, Stop: 4342, Start Num: 16

Candidate Starts for SunnyD_3:

(Start: 16 @2294 has 80 MA's), (60, 2444), (64, 2489), (71, 2540), (100, 2684), (120, 2756), (125, 2777), (131, 2810), (158, 2957), (160, 2984), (175, 3116), (176, 3122), (183, 3182), (189, 3209), (190, 3221), (191, 3224), (192, 3230), (198, 3275), (230, 3458), (234, 3485), (235, 3491), (245, 3536), (247, 3563), (299, 3824), (358, 4145), (363, 4217), (370, 4283), (375, 4322),

Gene: Supakev_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for Supakev_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (126, 2477), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (185, 2882), (190, 2912), (209, 3029), (225, 3125), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (290, 3461), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (362, 3878), (363, 3914), (364, 3929), (373, 3998),

Gene: Suppi_6 Start: 4693, Stop: 6708, Start Num: 20

Candidate Starts for Suppi_6:

(Start: 20 @4693 has 86 MA's), (28, 4720), (32, 4732), (Start: 38 @4753 has 1 MA's), (66, 4867), (72, 4909), (73, 4912), (86, 4984), (89, 5002), (92, 5014), (113, 5098), (114, 5104), (117, 5113), (126, 5155), (128, 5161), (138, 5200), (141, 5209), (142, 5212), (151, 5272), (155, 5305), (160, 5350), (161,

5353), (175, 5485), (190, 5590), (205, 5683), (212, 5719), (215, 5731), (225, 5803), (230, 5830), (235, 5863), (281, 6085), (288, 6118), (289, 6121), (319, 6310), (363, 6583), (373, 6667),

Gene: Swervy_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for Swervy_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216), (190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (346, 4080), (358, 4143), (363, 4209),

Gene: TattModd_6 Start: 4711, Stop: 6720, Start Num: 20

Candidate Starts for TattModd_6:

(Start: 20 @4711 has 86 MA's), (Start: 29 @4741 has 64 MA's), (62, 4837), (64, 4867), (66, 4879), (73, 4924), (92, 5026), (93, 5035), (100, 5065), (113, 5110), (114, 5116), (126, 5167), (138, 5212), (141, 5221), (151, 5284), (155, 5317), (160, 5362), (161, 5365), (175, 5497), (178, 5512), (187, 5581), (190, 5602), (193, 5614), (202, 5683), (205, 5695), (219, 5770), (225, 5815), (230, 5842), (255, 5995), (280, 6094), (281, 6097), (290, 6142), (304, 6223), (310, 6253), (317, 6304), (344, 6454), (363, 6595), (373, 6679),

Gene: TaylorSipt_5 Start: 2710, Stop: 4677, Start Num: 29

Candidate Starts for TaylorSipt_5:

(Start: 29 @2710 has 64 MA's), (47, 2770), (53, 2782), (64, 2851), (65, 2854), (66, 2863), (78, 2947), (89, 2998), (142, 3193), (146, 3226), (157, 3292), (175, 3472), (177, 3481), (190, 3577), (193, 3589), (201, 3649), (204, 3667), (207, 3685), (208, 3688), (222, 3754), (230, 3814), (233, 3838), (243, 3880), (245, 3892), (266, 4009), (279, 4057), (288, 4099), (302, 4180), (322, 4306), (339, 4384), (350, 4435), (363, 4549), (364, 4564), (375, 4654),

Gene: Teagster_3 Start: 2297, Stop: 4345, Start Num: 16

Candidate Starts for Teagster_3:

(Start: 16 @2297 has 80 MA's), (60, 2447), (64, 2492), (71, 2543), (100, 2687), (120, 2759), (125, 2780), (131, 2813), (158, 2960), (160, 2987), (175, 3119), (176, 3125), (183, 3185), (189, 3212), (190, 3224), (191, 3227), (192, 3233), (198, 3278), (230, 3461), (234, 3488), (235, 3494), (245, 3539), (247, 3566), (299, 3827), (358, 4148), (363, 4220), (370, 4286), (375, 4325),

Gene: Temper16_3 Start: 2012, Stop: 4039, Start Num: 20

Candidate Starts for Temper16_3:

(Start: 20 @2012 has 86 MA's), (Start: 29 @2042 has 64 MA's), (Start: 38 @2075 has 1 MA's), (39, 2078), (66, 2189), (73, 2234), (77, 2270), (86, 2306), (92, 2336), (93, 2345), (100, 2375), (114, 2426), (134, 2510), (138, 2522), (141, 2531), (153, 2606), (155, 2627), (160, 2672), (161, 2675), (175, 2807), (190, 2912), (209, 3029), (225, 3125), (230, 3152), (263, 3338), (265, 3353), (267, 3356), (281, 3416), (310, 3572), (319, 3641), (333, 3707), (344, 3773), (355, 3821), (363, 3914), (364, 3929), (373, 3998),

Gene: Toad24_6 Start: 2893, Stop: 4863, Start Num: 29

Candidate Starts for Toad24_6:

(Start: 29 @2893 has 64 MA's), (65, 3037), (85, 3169), (89, 3196), (92, 3208), (104, 3259), (108, 3271), (109, 3274), (111, 3280), (117, 3301), (142, 3391), (157, 3490), (175, 3670), (177, 3679), (190, 3775), (191, 3778), (193, 3787), (201, 3847), (204, 3865), (207, 3883), (222, 3952), (230, 4012), (233, 4036), (243, 4078), (245, 4090), (266, 4204), (279, 4252), (288, 4294), (319, 4480), (332, 4540), (339, 4573), (352, 4633), (363, 4738), (371, 4807), (373, 4822), (375, 4843),

Gene: TukTuk_4 Start: 2316, Stop: 4340, Start Num: 16

Candidate Starts for TukTuk_4:

(Start: 16 @2316 has 80 MA's), (24, 2349), (58, 2457), (60, 2466), (64, 2511), (65, 2514), (78, 2607), (100, 2706), (125, 2799), (143, 2874), (158, 2982), (160, 3009), (175, 3141), (176, 3147), (185, 3216),

(190, 3246), (198, 3300), (205, 3339), (230, 3483), (245, 3561), (346, 4080), (358, 4143), (363, 4209),

Gene: Urla_3 Start: 2010, Stop: 4019, Start Num: 20

Candidate Starts for Urla_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2166), (66, 2178), (73, 2223), (88, 2310), (92, 2325), (93, 2334), (94, 2340), (100, 2364), (113, 2409), (114, 2415), (122, 2448), (126, 2466), (134, 2499), (138, 2511), (141, 2520), (151, 2583), (155, 2616), (160, 2661), (161, 2664), (175, 2796), (178, 2811), (187, 2880), (190, 2901), (193, 2913), (202, 2982), (209, 3018), (215, 3042), (219, 3069), (225, 3114), (230, 3141), (241, 3201), (280, 3393), (281, 3396), (290, 3441), (304, 3522), (344, 3753), (349, 3771), (363, 3894), (373, 3978),

Gene: Vallejo_6 Start: 4648, Stop: 6657, Start Num: 20

Candidate Starts for Vallejo_6:

(Start: 20 @4648 has 86 MA's), (Start: 29 @4678 has 64 MA's), (62, 4774), (64, 4804), (66, 4816), (73, 4861), (92, 4963), (93, 4972), (100, 5002), (113, 5047), (114, 5053), (126, 5104), (138, 5149), (141, 5158), (151, 5221), (155, 5254), (160, 5299), (161, 5302), (175, 5434), (178, 5449), (187, 5518), (190, 5539), (193, 5551), (202, 5620), (205, 5632), (219, 5707), (225, 5752), (230, 5779), (255, 5932), (280, 6031), (281, 6034), (290, 6079), (304, 6160), (310, 6190), (317, 6241), (344, 6391), (363, 6532), (373, 6616),

Gene: Vitas_3 Start: 2170, Stop: 4221, Start Num: 16

Candidate Starts for Vitas_3:

(Start: 16 @2170 has 80 MA's), (39, 2254), (49, 2284), (58, 2311), (60, 2320), (65, 2368), (90, 2515), (95, 2545), (96, 2551), (155, 2803), (158, 2821), (160, 2848), (162, 2854), (175, 2980), (190, 3085), (192, 3094), (195, 3124), (198, 3142), (230, 3325), (243, 3391), (245, 3403), (288, 3637), (306, 3733), (348, 3970), (349, 3976), (353, 3991), (357, 4012), (363, 4093), (370, 4159),

Gene: Vulpecula_5 Start: 3027, Stop: 4982, Start Num: 29

Candidate Starts for Vulpecula_5:

(Start: 29 @3027 has 64 MA's), (53, 3099), (64, 3168), (65, 3171), (70, 3213), (76, 3249), (78, 3264), (89, 3330), (104, 3393), (108, 3405), (109, 3408), (111, 3414), (117, 3435), (142, 3525), (157, 3624), (165, 3687), (175, 3804), (190, 3909), (192, 3918), (193, 3921), (201, 3981), (204, 3999), (207, 4017), (208, 4020), (222, 4086), (230, 4146), (233, 4170), (243, 4212), (245, 4224), (279, 4365), (288, 4407), (306, 4500), (319, 4593), (323, 4617), (359, 4806), (363, 4857), (364, 4872), (373, 4941), (375, 4962),

Gene: Vulture_3 Start: 2013, Stop: 4040, Start Num: 20

Candidate Starts for Vulture_3:

(Start: 20 @2013 has 86 MA's), (Start: 29 @2043 has 64 MA's), (Start: 38 @2076 has 1 MA's), (39, 2079), (66, 2190), (86, 2307), (88, 2322), (93, 2346), (114, 2427), (126, 2478), (134, 2511), (138, 2523), (145, 2565), (149, 2586), (153, 2607), (155, 2628), (160, 2673), (161, 2676), (175, 2808), (185, 2883), (190, 2913), (225, 3126), (230, 3153), (265, 3354), (267, 3357), (281, 3417), (310, 3573), (319, 3642), (344, 3774), (355, 3822), (363, 3915), (364, 3930), (373, 3999),

Gene: WalkingDead_4 Start: 2583, Stop: 4598, Start Num: 16

Candidate Starts for WalkingDead_4:

(5, 2460), (Start: 16 @2583 has 80 MA's), (22, 2610), (24, 2613), (49, 2688), (60, 2724), (64, 2769), (65, 2772), (76, 2850), (86, 2898), (100, 2964), (129, 3069), (150, 3180), (158, 3237), (160, 3264), (175, 3396), (176, 3402), (185, 3471), (190, 3501), (192, 3510), (198, 3558), (203, 3588), (230, 3741), (245, 3819), (346, 4338), (358, 4401), (363, 4467), (368, 4515), (370, 4533),

Gene: Wawa_6 Start: 4687, Stop: 6696, Start Num: 20

Candidate Starts for Wawa_6:

(Start: 20 @4687 has 86 MA's), (Start: 29 @4717 has 64 MA's), (62, 4813), (64, 4843), (66, 4855), (73, 4900), (92, 5002), (93, 5011), (100, 5041), (113, 5086), (114, 5092), (126, 5143), (138, 5188), (141, 5197), (151, 5260), (155, 5293), (160, 5338), (161, 5341), (175, 5473), (178, 5488), (187, 5557), (190, 5578), (193, 5590), (202, 5659), (205, 5671), (219, 5746), (225, 5791), (230, 5818), (280, 6070), (281, 6073), (290, 6118), (304, 6199), (310, 6229), (317, 6280), (344, 6430), (363, 6571), (373, 6655),

Gene: Wayne_6 Start: 4739, Stop: 6754, Start Num: 20

Candidate Starts for Wayne_6:

(Start: 20 @4739 has 86 MA's), (28, 4766), (32, 4778), (Start: 38 @4799 has 1 MA's), (64, 4901), (66, 4913), (72, 4955), (73, 4958), (86, 5030), (89, 5048), (92, 5060), (113, 5144), (114, 5150), (117, 5159), (126, 5201), (128, 5207), (138, 5246), (141, 5255), (142, 5258), (151, 5318), (155, 5351), (160, 5396), (161, 5399), (175, 5531), (190, 5636), (205, 5729), (212, 5765), (215, 5777), (225, 5849), (230, 5876), (235, 5909), (281, 6131), (288, 6164), (289, 6167), (319, 6356), (363, 6629), (373, 6713),

Gene: Westrich_6 Start: 2893, Stop: 4851, Start Num: 29

Candidate Starts for Westrich_6:

(Start: 29 @2893 has 64 MA's), (65, 3037), (76, 3115), (89, 3181), (92, 3193), (104, 3244), (108, 3256), (109, 3259), (111, 3265), (118, 3289), (142, 3376), (157, 3475), (175, 3655), (177, 3664), (190, 3760), (191, 3763), (193, 3772), (201, 3832), (204, 3850), (207, 3868), (222, 3937), (230, 3997), (233, 4021), (243, 4063), (245, 4075), (266, 4192), (279, 4240), (288, 4282), (319, 4468), (332, 4528), (339, 4561), (352, 4621), (363, 4726), (371, 4795), (373, 4810), (375, 4831),

Gene: Widow_3 Start: 2078, Stop: 3436, Start Num: 20

Candidate Starts for Widow_3:

(Start: 20 @2078 has 86 MA's), (24, 2087), (36, 2135), (66, 2243), (82, 2339), (97, 2423), (108, 2462), (135, 2570), (141, 2588), (144, 2615), (149, 2642), (155, 2684), (163, 2747), (175, 2864), (185, 2939), (190, 2969), (198, 3023), (207, 3077), (212, 3098), (230, 3212), (234, 3239),

Gene: WileyE_4 Start: 2389, Stop: 4344, Start Num: 29

Candidate Starts for WileyE_4:

(Start: 29 @2389 has 64 MA's), (47, 2449), (63, 2521), (64, 2530), (65, 2533), (76, 2611), (85, 2665), (89, 2692), (92, 2704), (108, 2767), (109, 2770), (111, 2776), (117, 2797), (142, 2887), (157, 2986), (165, 3049), (175, 3166), (190, 3271), (192, 3280), (193, 3283), (201, 3343), (204, 3361), (207, 3379), (208, 3382), (222, 3448), (230, 3508), (233, 3532), (243, 3574), (245, 3586), (279, 3727), (288, 3769), (306, 3862), (319, 3955), (323, 3979), (359, 4168), (363, 4219), (364, 4234), (373, 4303), (377, 4330), (378, 4336),

Gene: WonderBoy_3 Start: 2010, Stop: 4028, Start Num: 20

Candidate Starts for WonderBoy_3:

(Start: 20 @2010 has 86 MA's), (Start: 29 @2040 has 64 MA's), (64, 2175), (66, 2187), (73, 2232), (88, 2319), (100, 2373), (113, 2418), (114, 2424), (126, 2475), (138, 2520), (141, 2529), (151, 2592), (155, 2625), (160, 2670), (161, 2673), (174, 2793), (175, 2805), (178, 2820), (180, 2850), (190, 2910), (193, 2922), (205, 3003), (212, 3039), (222, 3090), (225, 3123), (230, 3150), (267, 3345), (281, 3405), (290, 3450), (304, 3531), (332, 3690), (344, 3762), (363, 3903), (373, 3987),

Gene: Zhuangyuan_6 Start: 3024, Stop: 4982, Start Num: 29

Candidate Starts for Zhuangyuan_6:

(27, 3018), (Start: 29 @3024 has 64 MA's), (45, 3078), (64, 3162), (65, 3165), (68, 3195), (80, 3264), (106, 3381), (119, 3423), (142, 3504), (152, 3573), (157, 3603), (175, 3783), (190, 3888), (192, 3897), (193, 3900), (204, 3978), (222, 4065), (230, 4125), (233, 4149), (243, 4191), (244, 4197), (245, 4203), (254, 4278), (277, 4362), (280, 4371), (306, 4500), (315, 4563), (322, 4614), (352, 4752), (367, 4902), (372, 4932), (377, 4968),

Gene: Zixiang_5 Start: 2684, Stop: 4648, Start Num: 29

Candidate Starts for Zixiang_5:

(Start: 29 @2684 has 64 MA's), (53, 2756), (65, 2828), (81, 2930), (89, 2972), (92, 2984), (108, 3047), (109, 3050), (111, 3056), (117, 3077), (142, 3167), (152, 3236), (157, 3266), (175, 3446), (177, 3455), (190, 3551), (191, 3554), (193, 3563), (201, 3623), (204, 3641), (207, 3659), (222, 3728), (230, 3788), (233, 3812), (243, 3854), (245, 3866), (279, 4031), (288, 4073), (302, 4154), (306, 4166), (319, 4259), (322, 4280), (323, 4283), (339, 4358), (343, 4373), (363, 4523), (364, 4538), (375, 4628),

Gene: Zorro_6 Start: 4666, Stop: 6675, Start Num: 20

Candidate Starts for Zorro_6:

(Start: 20 @4666 has 86 MA's), (Start: 29 @4696 has 64 MA's), (62, 4792), (64, 4822), (66, 4834), (73, 4879), (92, 4981), (93, 4990), (100, 5020), (113, 5065), (114, 5071), (126, 5122), (138, 5167), (141, 5176), (151, 5239), (155, 5272), (160, 5317), (161, 5320), (175, 5452), (178, 5467), (187, 5536), (190, 5557), (193, 5569), (202, 5638), (205, 5650), (219, 5725), (225, 5770), (230, 5797), (281, 6052), (290, 6097), (304, 6178), (310, 6208), (317, 6259), (344, 6409), (363, 6550), (373, 6634),