

1. Cannibal_31 + 46	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
2. Kailash_31 + 122	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
3. Manad_30 + 7	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
4. KingTut_22 + 46	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
5. Freya_30	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
6. Chute_30 + 10	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
7. Olak_30 + 29	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
8. MeisMeow_30 + 3	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
9. Sheila_31 + 9	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
10. Dingo_31	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
11. Robyn_30	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
12. Chaein_31 + 2	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
13. Jimmy_30 + 5	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
14. Inad_31 + 2	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
15. Empree_31 + 2	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
16. Eremos_31	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
17. Plata_31	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
18. Roscoe_32	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
19. Aonishiki_31	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
20. VivaIdr_31	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
21. Gwennie1_31	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
22. Carthage_29	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
23. Solosis_30	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
24. ThreeOf3D2_31	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
25. CrownJW_31	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
26. Devonte_31 + 16	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
27. Romal_31 + 2	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
28. No20_31 + 6	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
29. Rita1961_31	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
30. Gervas_31 + 2	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
31. Morty007_31 + 5	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
32. Gudnar_32 + 1	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
33. Montellus_30	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
34. YanaIom_31	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
35. Phaedrus_29	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
36. SlippinJimmy_31 + 2	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
37. OrangeOswald_31 + 1	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
38. Audrey_31 + 1	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
39. Piperish_32 + 1	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
40. Kamiyu_31	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
41. Neos5_31	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
42. SwampyDoc_31	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
43. Chaimers_31	5	10	14	21	291	93	93	93	93	93	93	93	93	93	93	93	93	106	106	106	106	112	112	123	123	123	123	123	123
44. Hairpint_30	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
45. Hair898_27 + 7	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
46. VioletZ_28	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
47. Nigh_26	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
48. QueenPie_27	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
49. Magpie_27	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152
50. Harlyman_28 + 1	5	13	190	21	31	158	51	59	66	61	69	70	74	78	82	86	89	101	106	107	110	115	121	123	124	128	146	148	152

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51: Renker_27 + 1	5	13	20	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
52: Stinger_26	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
53: BrownCNA_29 + 1	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
54: Frederick_28	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
55: Mudslide_28 + 1	5	13	24	21	31	38	41	42	48	58	59	64	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
56: Rawger rhat_28	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
57: Mitaji_28	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
58: Fanaw_27	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
59: ChrisMich_27	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
60: Zemanar_29	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
61: JAMaL_28	5	11	13	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
62: Cooper_28	5	13	20	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
63: Prince_28	5	13	18	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
64: AlanGrant_29 + 1	5	13	20	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
65: Fortunato_28	5	13	24	21	31	38	41	42	48	58	59	64	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
66: Hydro_28	5	13	20	21	31	38	41	42	48	58	59	64	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
67: Xingheng_27 + 1	5	13	24	21	31	38	41	42	48	58	59	64	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
68: Borpyk_28	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
69: JoyzMaria_28	5	13	20	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
70: Heah_27	5	13	24	21	31	38	41	42	48	58	59	66	72	71	81	88	89	89	90	93	98	101	110	119	125	134	138	146	153	
71: Austelle_29	5	8	13	19	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
72: Acadian_30 + 5	5	8	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
73: Reprobate_30 + 1	5	8	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
74: Serendipitous_29	5	8	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
75: Nangang_30 + 4	5	8	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
76: Rich_29	5	9	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
77: Baee_29	5	9	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
78: Ivenemian_29	5	8	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153
79: Reccee_31	5	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153	
80: Mysterious_30	5	13	13	21	28	31	41	48	58	59	66	75	81	82	88	89	89	90	93	98	101	109	114	119	125	134	138	146	153	

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 273878 Report

This analysis was run 02/07/26 on database version 634.

Pham number 273878 has 423 members, 58 are drafts.

Phages represented in each track:

- Track 1 : Cannibal_31, Schueller_30, Mana_30, Murdoc_31, Happabalu_31, Lasso_31, LostAndPhound_30, Emiris_31, Cobra_31, LeeLot_31, JDog_30, PinheadLarry_31, Matalotodo_31, Held_31, Oosterbaan_31, SilverBell_31, LeiMonet_31, Zelda_31, Eugenia_31, DonSanchon_30, LuckyMarjie_30, TallGrassMM_31, Mcshane_30, Dice_30, Altwerkus_30, Dione_30, Squiggle_31, Daffy_31, TooFast2Furius_32, Vista_31, Mesmerelda_30, Mutante_30, Jiraiya_30, Sophia_30, Lulwa_31, Grand2040_30, Chorkpop_31, Selr12_31, Maru_30, Inchworm_31, UncleHowie_31, Childish_30, Ricotta_30, Magic8_31, Thunderbird_30, Pipsqueak_31, Fang_31
- Track 2 : Kailash_31, Gophee_31, Puhltonio_31, Mesh1_31, Mecca_30, Samaymay_31, Scrick_31, MitKao_31, TomBombadil_31, Bishoperium_30, Phipps_31, Craff_31, BoogieWoogie_30, Potter_30, Xavier_30, PhrodoBaggins_30, Megatron_31, PallasAthena_31, FriarPreacher_31, Vaticameos_31, DolOn_32, Beaglebox_30, Bluephacebaby_30, Kwadwo_30, CampRoach_31, Pacifista_30, Anderson_31, Harvey_31, SassyCat97_30, Chah_32, QueenBeane_31, Telesworld_30, Omniscient_31, Banjo_30, Iridoclysis_31, Adriana_31, Lego3393_31, FremontTroll_31, Kimbrough_31, Giraffe_31, Lumine_30, Podrick_31, Riggan_31, Nyala_30, Phareon_31, Kahve_30, Usavi_31, Gyarad_0031, YouGoGlencoco_31, True_30, Cosmolli16_30, LemonSlice_31, Mag7_30, Legolas_30, Cornbread_30, MRabcd_30, HighStump_30, HSavage_31, Phergie_30, Apizium_30, LasagnaCat_31, Cher_30, HogWash_30, Hocus_30, Veritas_30, Gwilliam_31, Skippy_31, ShiVal_31, Swiphy_31, PImatters_31, Tomlarah_31, HenryJackson_30, Charles1_31, Megamind20_31, Haleema_30, Hartsy_31, Simielle_30, Piglet_0030, Morty_31, Squid_31, CamL_31, Phunky_31, Phamished_31, Fringe_31, Weher20_31, Numberten_31, FugateOSU_30, Orfeu_30, Hamish_31, PhatLouie_31, Melc17_31, PhrankReynolds_30, Serendipity_31, Andre_31, Placalicious_30, DelRivs_30, Serpentine_0031, Haimas_31, Waterdiva_31, ShadowBud_31, PhenghisKhan_30, Jillium_30, Nicole21_31, Surely_31, Mosaic_30, Slatt_31, Jesabah_31, Virapocalypse_31, Burr_30, Zaider_32, Dati_31, BatteryCK_30, Soile_31, Orwigg_30, AngelCake_31, JangoPhett_31, Iridessa_31, DoesntMatter_31, KLUcky39_31, Buckeye_31, Gareth_30, Quisquilliae_31, MichaelPhcott_30
- Track 3 : Manad_30, Schadenfreude_30, Newman_31, Cornobble_30, OliverWalter_31, Nacho_0031, Suffolk_31, AbsoluteMadLad_30
- Track 4 : KingTut_22, RedRaider89_31, Morgushi_31, Kwksand96_30, Durga_31, Ashraf_30, Timmi_30, AltPhacts_31, Lopsy_30, Aelin_30, Roliet_31, Vortex_31, RedMaple_30, Longacauda_30, Pops_31, KingVeVeVe_31, Caspiroi_30, Inverness_31, Basato_32, Daka_31, Brilliant_31, Etaye_31, Antonia_30, Trypo_31,

Soto_31, GeneCoco_31, Struggle_30, BlueHusk_31, Pinkman_30, ImtiyazSitla_30,
 Khan1_31, CheetO_31, Chuni_30, KlimbOn_31, Rimu_31, DaddyDaniels_31,
 MrPhizzler_31, MiniBoss_31, Prickles_31, Maskar_30, Horchata_31, DirtJuice_31,
 Zonia_31, SDcharge11_31, Duggie_30, Wallhey_30, Chipette_32
 • Track 5 : Freya_30
 • Track 6 : Chute_30, Fozzie_30, Nathan_31, OSmaximus_31, Coletti_31,
 Windsor_30, Keitherie_31, Virgeve_30, Flake_32, Larson_32, BlacksBerry_30
 • Track 7 : Olak_30, Sigman_31, Scoot17C_31, BlackStallion_31, UAch1_31,
 Lulumae_30, IsaacEli_31, Orion_31, ProfessorX_31, PG1_31, Hertubise_31,
 Badfish_31, Kloppinator_31, Thora_31, JacAttac_31, Katniss_31, PhatCats2014_31,
 ABU_31, SallyH_31, FluffyNinja_31, Toni_30, Swish_31, Roy17_31, Hetaeria_31,
 Kikipoo_31, Yoshand_31, Olive_31, Mulan_30, Pherdinand_31, Boehler_31
 • Track 8 : MelsMeow_30, ElvisPhasley_31, JakeO_30, FleetyMac_30
 • Track 9 : Sheila_31, Tooj_31, DuchessDung_29, Chunky_31, Colbert_31,
 Frankicide_31, Mikota_31, Phleuron_30, Oline_30, Riverton_30
 • Track 10 : Dingo_31
 • Track 11 : Robyn_30
 • Track 12 : Chaelin_31, Aleia_31, SirBeauregard_31
 • Track 13 : Jiminy_30, Doddsville_31, Labeouficaum_30, CharlieGBrown_30,
 Derpp_30, TyrionL_30
 • Track 14 : Triad_31, Lehmann_31, Vaishali24_30
 • Track 15 : EmpTee_31, Spartan300_31, Valjean_31
 • Track 16 : Eremos_31
 • Track 17 : Plata_31
 • Track 18 : Roscoe_32
 • Track 19 : Aonishiki_31
 • Track 20 : Vivaldi_31
 • Track 21 : Gwennie1_31
 • Track 22 : Carthage_29
 • Track 23 : Solosis_30
 • Track 24 : ThreeOh3D2_31
 • Track 25 : Crownjwl_31
 • Track 26 : Devonte_31, ChaChing_31, Jackstina_28, Tydolla_31, Phlyer_31,
 Chandler_31, LestyG_31, MmasiCarm_31, Yinz_31, RagingRooster_31,
 Chentzyk_30, SynergyX_31, Marlia_31, Deenasa_31, Corofin_31, HarveySr_31,
 Daisy_31
 • Track 27 : RomaT_31, Phayeta_31, Mulaychimus_31
 • Track 28 : Nozo_31, Athena_32, Abinghost_31, Compostia_32, Baloo_31,
 Briakila_31, Ben11_30
 • Track 29 : Rita1961_31
 • Track 30 : Gervas_31, Obutu_31, Kronus_30
 • Track 31 : Morty007_31, Casbah_30, Marley1013_31, Akoma_31, Gadget_32,
 Shenandoah_31
 • Track 32 : Glubnar_32, Olivio_30
 • Track 33 : Mortcellus_30
 • Track 34 : Yahalom_31
 • Track 35 : Phaedrus_29
 • Track 36 : SlippinJimmy_31, GlenHope_32, TinyTerror_31
 • Track 37 : OrangeOswald_31, Heathcliff_31
 • Track 38 : Audrey_31, Philly_30
 • Track 39 : Pipefish_32, Bernardo_31
 • Track 40 : Kamiyu_31
 • Track 41 : Neos5_31

- Track 42 : SwainyDoc_31
- Track 43 : Chalmers_31
- Track 44 : Halfpint_30
- Track 45 : Hally898_27, Antihero_27, GinPorsche_27, Ahwei_27, Poster_27, Lambano_27, Epah_27, Nanao_27
- Track 46 : VioletZ_28
- Track 47 : Nigel_26
- Track 48 : QueenPie_27
- Track 49 : Magpie_27
- Track 50 : Hangman_28, Waleliano_28
- Track 51 : Renkei_27, LittleDigger_27
- Track 52 : Stinger_26
- Track 53 : BrownCNA_29, Lolalove_28
- Track 54 : Frederick_28
- Track 55 : Mudslide_28, Apex_28
- Track 56 : RawrgerThat_28
- Track 57 : Mithril_28
- Track 58 : Fanaw_27
- Track 59 : ChrisnMich_27
- Track 60 : Zemanar_29
- Track 61 : JAMaL_28
- Track 62 : Cooper_28
- Track 63 : Prince_28
- Track 64 : AlanGrant_29, Vincenzo_29
- Track 65 : Fortunato_28
- Track 66 : Hydro_28
- Track 67 : Xincheng_27, JaguarMi_28
- Track 68 : BobbyK_28
- Track 69 : JoyceMaria_28
- Track 70 : Heath_27
- Track 71 : Austelle_29
- Track 72 : Acadian_30, Rita130_30, Donny_30, EastView9101_29, Suigeneris_30, SirJeffery_30
- Track 73 : Reprobate_30, Phelemich_30
- Track 74 : Serendipitous_29
- Track 75 : Nangang_30, StinkyVeggy_32, KarasumaRum_32, Shenyu_30, DigitDog_30
- Track 76 : Rich_29
- Track 77 : Baee_29
- Track 78 : Nehemiah_29
- Track 79 : Reccee_31
- Track 80 : Mysterious_30

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

The start number called the most often in the published annotations is 5, it was called in 314 of the 365 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU_31, AbsoluteMadLad_30, Acadian_30, Adriana_31, Aelin_30, Ahwei_27, AlanGrant_29, Aleia_31, AltPhacts_31, Altwerkus_30, Anderson_31, Andre_31, AngelCake_31, Antihero_27, Antonia_30, Aonishiki_31, Apex_28, Apizium_30, Ashraf_30, Austelle_29, Badfish_31, Baee_29, Banjo_30, Basato_32, BatteryCK_30, Beaglebox_30, Bishoperium_30, BlackStallion_31, BlacksBerry_30, BlueHusk_31, Bluephacebaby_30, BobbyK_28, Boehler_31, BoogieWoogie_30, Brilliant_31, BrownCNA_29, Buckeye_31, Burr_30, CamL_31, CampRoach_31, Cannibal_31, Carthage_29, Caspiboi_30, Chaelin_31, Chah_32, Charles1_31, CharlieGBrown_30, CheetO_31, Cher_30, Childish_30, Chipette_32, Chorkpop_31, ChrisnMich_27, Chuni_30, Chunky_31, Chute_30, Cobra_31, Colbert_31, Coletti_31, Cooper_28, Cornbread_30, Cornobble_30, Cosmolli16_30, Craff_31, Crownjwl_31, DaddyDaniels_31, Daffy_31, Daka_31, Dati_31, DelRivs_30, Derpp_30, Dice_30, DigitDog_30, Dingo_31, Dione_30, DirtJuice_31, Doddsville_31, DoesntMatter_31, DolOn_32, DonSanchon_30, Donny_30, DuchessDung_29, Duggie_30, Durga_31, EastView9101_29, ElvisPhasley_31, Emiris_31, EmpTee_31, Epah_27, Eremos_31, Etaye_31, Eugenia_31, Fanaw_27, Fang_31, Flake_32, FleetyMac_30, FluffyNinja_31, Fozzie_30, Frankicide_31, Frederick_28, FremontTroll_31, Freya_30, FriarPreacher_31, Fringe_31, FugateOSU_30, Gareth_30, GeneCoco_31, GinPorsche_27, Giraffe_31, Gophee_31, Grand2040_30, Gwennie1_31, Gwilliam_31, Gyarad_0031, HSavage_31, Haimas_31, Haleema_30, Hally898_27, Hamish_31, Hangman_28, Happabalu_31, Hartsy_31, Harvey_31, Heath_27, Held_31, HenryJackson_30, Hertubise_31, Hetaeria_31, HighStump_30, Hocus_30, HogWash_30, Horchata_31, Hydro_28, ImtiyazSitla_30, Inchworm_31, Inverness_31, Iridessa_31, Iridoclysis_31, IsaacEli_31, JAMaL_28, JDog_30, JacAttac_31, JaguarMi_28, JakeO_30, JangoPhett_31, Jesabah_31, Jillium_30, Jiminy_30, Jiraiya_30, JoyceMaria_28, KLUcky39_31, Kahve_30, Kailash_31, KarasumaRum_32, Katniss_31, Keitherie_31, Khan1_31, Kikipoo_31, Kimbrough_31, KingTut_22, KingVeVeVe_31, KlimbOn_31, Kloppinator_31, Kwadwo_30, Kwksand96_30, Labeouficaum_30, Lambano_27, Larson_32, LasagnaCat_31, Lasso_31, LeeLot_31, Lego3393_31, Legolas_30, Lehmann_31, LeiMonet_31, LemonSlice_31, LittleDigger_27, Lolalove_28, Longacauda_30, Lopsy_30, LostAndPhound_30, LuckyMarjie_30, Lulumae_30, Lulwa_31, Lumine_30, MRabcd_30, Mag7_30, Magic8_31, Magpie_27, Mana_30, Manad_30, Maru_30, Maskar_30, Matalotodo_31, Mcshane_30, Mecca_30, Megamind20_31, Megatron_31, Melc17_31, MelsMeow_30, Mesh1_31, Mesmerelda_30, MichaelPhcott_30, Mikota_31, MiniBoss_31, MitKao_31, Mithril_28, Morgushi_31, Morty_31, Mosaic_30, MrPhizzler_31, Mudslide_28, Mulan_30, Murdoc_31, Mutante_30, Mysterious_30, Nacho_0031, Nanao_27, Nangang_30, Nathan_31, Nehemiah_29, Newman_31, Nicole21_31, Nigel_26, Numberbert_31, Nyala_30, OSmaximus_31, Olak_30, Oline_30, Olive_31, OliverWalter_31, Omniscient_31, Oosterbaan_31, Orfeu_30, Orion_31, Orwigg_30, PG1_31, Pacifista_30, PallasAthena_31, Phamished_31, Phareon_31, PhatCats2014_31, PhatLouie_31, Phelemich_30, PhenghisKhan_30, Pherdinand_31, Phergie_30, Phipps_31, Phleuron_30, PhrankReynolds_30, PhrodoBaggins_30, Phunky_31, Piglet_0030, PinheadLarry_31, Pinkman_30, Pipsqueak_31, Placalicious_30, Plata_31, Plmatters_31, Podrick_31, Pops_31, Poster_27, Potter_30, Prickles_31, Prince_28, ProfessorX_31, Puhltonio_31, QueenBeane_31, QueenPie_27, Quisquilliae_31, RawrgerThat_28, Reccee_31, RedMaple_30, RedRaider89_31, Renkei_27, Reprobate_30, Rich_29, Ricotta_30, Riggan_31, Rimu_31, Rita130_30, Riverton_30, Robyn_30, Roliet_31, Roscoe_32, Roy17_31, SDcharge11_31, SallyH_31, Samaymay_31, SassyCat97_30, Schadenfreude_30, Schueller_30, Scoot17C_31, Scrick_31, Selr12_31, Serendipitous_29, Serendipity_31, Serpentine_0031, ShadowBud_31, Sheila_31, Shenyu_30, ShiVal_31, Sigman_31, SilverBell_31,

Simielle_30, SirBeauregard_31, SirJeffery_30, Skippy_31, Slatt_31, Soile_31, Solosis_30, Sophia_30, Soto_31, Spartan300_31, Squid_31, Squiggle_31, Stinger_26, StinkyVeggy_32, Struggle_30, Suffolk_31, Suigeneris_30, Surely_31, Swiphy_31, Swish_31, TallGrassMM_31, Telesworld_30, Thora_31, ThreeOh3D2_31, Thunderbird_30, Timmi_30, TomBombadil_31, Tomlarah_31, Toni_30, TooFast2Furious_32, Tooj_31, Triad_31, True_30, Trypo_31, TyrionL_30, UAch1_31, UncleHowie_31, Usavi_31, Vaishali24_30, Valjean_31, Vaticameos_31, Veritas_30, Vincenzo_29, VioletZ_28, Virapocalypse_31, Virgeve_30, Vista_31, Vivaldi_31, Vortex_31, Waleliano_28, Wallhey_30, Waterdiva_31, Weher20_31, Windsor_30, Xavier_30, Xincheng_27, Yoshand_31, YouGoGlencoco_31, Zaider_32, Zelda_31, Zemanar_29, Zonia_31,

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

- Fortunato_28,

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

- Abinghost_31, Akoma_31, Athena_32, Audrey_31, Baloo_31, Ben11_30, Bernardo_31, Briakila_31, Casbah_30, ChaChing_31, Chalmers_31, Chandler_31, Chentzyk_30, Compostia_32, Corofin_31, Daisy_31, Deenasa_31, Devonte_31, Gadget_32, Gervas_31, GlenHope_32, Glubnar_32, Halfpint_30, HarveySr_31, Heathcliff_31, Jackstina_28, Kamiyu_31, Kronus_30, LestyG_31, Marley1013_31, Marlia_31, MmasiCarm_31, Mortcellus_30, Morty007_31, Mulaychimus_31, Neos5_31, Nozo_31, Obutu_31, Olivio_30, OrangeOswald_31, Phaedruss_29, Phayeta_31, Philly_30, Phlyer_31, Pipefish_32, RagingRooster_31, Rita1961_31, RomaT_31, Shenandoah_31, SlippinJimmy_31, SwainyDoc_31, SynergyX_31, TinyTerror_31, Tydolla_31, Yahalom_31, Yinz_31,

Summary by start number:

Start 1:

- Found in 17 of 423 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 365
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Fortunato_28 (B4),

Start 4:

- Found in 56 of 423 (13.2%) of genes in pham
- Manual Annotations of this start: 49 of 365
- Called 98.2% of time when present
- Phage (with cluster) where this start called: Abinghost_31 (B3), Akoma_31 (B3), Athena_32 (B3), Audrey_31 (B3), Baloo_31 (B3), Ben11_30 (B3), Bernardo_31 (B3), Briakila_31 (B3), Casbah_30 (B3), ChaChing_31 (B3), Chalmers_31 (B3), Chandler_31 (B3), Chentzyk_30 (B3), Compostia_32 (B3), Corofin_31 (B3), Daisy_31 (B3), Deenasa_31 (B3), Devonte_31 (B3), Gadget_32 (B3), Gervas_31 (B3), GlenHope_32 (B3), Glubnar_32 (B3), Halfpint_30 (B3), HarveySr_31 (B3), Heathcliff_31 (B3), Jackstina_28 (B3), Kamiyu_31 (B3), Kronus_30 (B3), LestyG_31 (B3), Marley1013_31 (B3), Marlia_31 (B3), MmasiCarm_31 (B3), Mortcellus_30 (B3), Morty007_31 (B3), Mulaychimus_31 (B3), Neos5_31 (B3), Nozo_31 (B3), Obutu_31 (B3), Olivio_30 (B3), OrangeOswald_31 (B3), Phaedruss_29 (B3), Phayeta_31 (B3), Philly_30 (B3), Phlyer_31 (B3), Pipefish_32 (B3), RagingRooster_31 (B3), RomaT_31 (B3), Shenandoah_31 (B3), SlippinJimmy_31 (B3), SwainyDoc_31 (B3), SynergyX_31 (B3), TinyTerror_31 (B3), Tydolla_31 (B3), Yahalom_31 (B3), Yinz_31 (B3),

Start 5:

- Found in 367 of 423 (86.8%) of genes in pham
- Manual Annotations of this start: 314 of 365
- Called 99.7% of time when present
- Phage (with cluster) where this start called: ABU_31 (B1), AbsoluteMadLad_30 (B1), Acadian_30 (B5), Adriana_31 (B1), Aelin_30 (B1), Ahwei_27 (B4), AlanGrant_29 (B4), Aleia_31 (B1), AltPhacts_31 (B1), Altwerkus_30 (B1), Anderson_31 (B1), Andre_31 (B1), AngelCake_31 (B1), Antihero_27 (B4), Antonia_30 (B1), Aonishiki_31 (B1), Apex_28 (B4), Apizium_30 (B1), Ashraf_30 (B1), Austelle_29 (B4), Badfish_31 (B1), Baee_29 (B5), Banjo_30 (B1), Basato_32 (B1), BatteryCK_30 (B1), Beaglebox_30 (B1), Bishoperium_30 (B1), BlackStallion_31 (B1), BlacksBerry_30 (B1), BlueHusk_31 (B1), Bluephacebaby_30 (B1), BobbyK_28 (B4), Boehler_31 (B1), BoogieWoogie_30 (B1), Brilliant_31 (B1), BrownCNA_29 (B4), Buckeye_31 (B1), Burr_30 (B1), CamL_31 (B1), CampRoach_31 (B1), Cannibal_31 (B1), Carthage_29 (B1), Caspiboi_30 (B1), Chaelin_31 (B1), Chah_32 (B1), Charles1_31 (B1), CharlieGBrown_30 (B1), CheetO_31 (B1), Cher_30 (B1), Childish_30 (B1), Chipette_32 (B1), Chorkpop_31 (B1), ChrisnMich_27 (B4), Chuni_30 (B1), Chunky_31 (B1), Chute_30 (B1), Cobra_31 (B1), Colbert_31 (B1), Coletti_31 (B1), Cooper_28 (B4), Cornbread_30 (B1), Cornobble_30 (B1), Cosmolli16_30 (B1), Craff_31 (B1), Crownjwl_31 (B1), DaddyDaniels_31 (B1), Daffy_31 (B1), Daka_31 (B1), Dati_31 (B1), DelRivs_30 (B1), Derpp_30 (B1), Dice_30 (B1), DigitDog_30 (B5), Dingo_31 (B1), Dione_30 (B1), DirtJuice_31 (B1), Doddsville_31 (B1), DoesntMatter_31 (B1), DolOn_32 (B1), DonSanchon_30 (B1), Donny_30 (B5), DuchessDung_29 (B1), Duggie_30 (B1), Durga_31 (B1), EastView9101_29 (B5), ElvisPhasley_31 (B1), Emiris_31 (B1), EmpTee_31 (B1), Epah_27 (B4), Eremos_31 (B1), Etaye_31 (B1), Eugenia_31 (B1), Fanaw_27 (B4), Fang_31 (B1), Flake_32 (B1), FleetyMac_30 (B1), FluffyNinja_31 (B1), Fozzie_30 (B1), Frankicide_31 (B1), Frederick_28 (B4), FremontTroll_31 (B1), Freya_30 (B1), FriarPreacher_31 (B1), Fringe_31 (B1), FugateOSU_30 (B1), Gareth_30 (B1), GeneCoco_31 (B1), GinPorsche_27 (B4), Giraffe_31 (B1), Gophe_31 (B1), Grand2040_30 (B1), Gwennie1_31 (B1), Gwilliam_31 (B1), Gyarad_0031 (B1), HSavage_31 (B1), Haimas_31 (B1), Haleema_30 (B1), Hally898_27 (B4), Hamish_31 (B1), Hangman_28 (B4), Happabalu_31 (B1), Hartsy_31 (B1), Harvey_31 (B1), Heath_27 (B4), Held_31 (B1), HenryJackson_30 (B1), Hertubise_31 (B1), Hetaeria_31 (B1), HighStump_30 (B1), Hocus_30 (B1), HogWash_30 (B1), Horchata_31 (B1), Hydro_28 (B4), ImtiyazSitla_30 (B1), Inchworm_31 (B1), Inverness_31 (B1), Iridessa_31 (B1), Iridoclysis_31 (B1), IsaacEli_31 (B1), JAMaL_28 (B4), JDog_30 (B1), JacAttac_31 (B1), JaguarMi_28 (B4), JakeO_30 (B1), JangoPhett_31 (B1), Jesabah_31 (B1), Jillium_30 (B1), Jiminy_30 (B1), Jiraiya_30 (B1), JoyceMaria_28 (B4), KLUcky39_31 (B1), Kahve_30 (B1), Kailash_31 (B1), KarasumaRum_32 (B5), Katniss_31 (B1), Keitherie_31 (B1), Khan1_31 (B1), Kikipoo_31 (B1), Kimbrough_31 (B1), KingTut_22 (B1), KingVeVeVe_31 (B1), KlimbOn_31 (B1), Kloppinator_31 (B1), Kwadwo_30 (B1), Kwksand96_30 (B1), Labeouficaum_30 (B1), Lambano_27 (B4), Larson_32 (B1), LasagnaCat_31 (B1), Lasso_31 (B1), LeeLot_31 (B1), Lego3393_31 (B1), Legolas_30 (B1), Lehmann_31 (B1), LeiMonet_31 (B1), LemonSlice_31 (B1), LittleDigger_27 (B4), Lolalove_28 (B4), Longacauda_30 (B1), Lopsy_30 (B1), LostAndPhound_30 (B1), LuckyMarjie_30 (B1), Lulumae_30 (B1), Lulwa_31 (B1), Lumine_30 (B1), MRabcd_30 (B1), Mag7_30 (B1), Magic8_31 (B1), Magpie_27 (B4), Mana_30 (B1), Manad_30 (B1), Maru_30 (B1), Maskar_30 (B1), Matalotodo_31 (B1), Mcshane_30 (B1), Mecca_30 (B1), Megamind20_31 (B1), Megatron_31 (B1), Melc17_31 (B1), MelsMeow_30 (B1), Mesh1_31 (B1), Mesmerelda_30 (B1), MichaelPhcott_30 (B1), Mikota_31 (B1), MiniBoss_31 (B1), MitKao_31 (B1),

Mithril_28 (B4), Morgushi_31 (B1), Morty_31 (B1), Mosaic_30 (B1), MrPhizzler_31 (B1), Mudslide_28 (B4), Mulan_30 (B1), Murdoc_31 (B1), Mutante_30 (B1), Mysterious_30 (B5), Nacho_0031 (B1), Nanao_27 (B4), Nangang_30 (B5), Nathan_31 (B1), Nehemiah_29 (B5), Newman_31 (B1), Nicole21_31 (B1), Nigel_26 (B4), Numberten_31 (B1), Nyala_30 (B1), OSmaximus_31 (B1), Olak_30 (B1), Oline_30 (B1), Olive_31 (B1), OliverWalter_31 (B1), Omniscient_31 (B1), Oosterbaan_31 (B1), Orfeu_30 (B1), Orion_31 (B1), Orwigg_30 (B1), PG1_31 (B1), Pacifista_30 (B1), PallasAthena_31 (B1), Phamished_31 (B1), Phareon_31 (B1), PhatCats2014_31 (B1), PhatLouie_31 (B1), Phelemich_30 (B5), PhenghisKhan_30 (B1), Pherdinand_31 (B1), Phergie_30 (B1), Phipps_31 (B1), Phleuron_30 (B1), PhrankReynolds_30 (B1), PhrodoBaggins_30 (B1), Phunky_31 (B1), Piglet_0030 (B1), PinheadLarry_31 (B1), Pinkman_30 (B1), Pipsqueak_31 (B1), Placalicious_30 (B1), Plata_31 (B1), Plmatters_31 (B1), Podrick_31 (B1), Pops_31 (B1), Poster_27 (B4), Potter_30 (B1), Prickles_31 (B1), Prince_28 (B4), ProfessorX_31 (B1), Puhltonio_31 (B1), QueenBeane_31 (B1), QueenPie_27 (B4), Quisquillae_31 (B1), RawrgerThat_28 (B4), Reccee_31 (B5), RedMaple_30 (B1), RedRaider89_31 (B1), Renkei_27 (B4), Reprobate_30 (B5), Rich_29 (B5), Ricotta_30 (B1), Riggan_31 (B1), Rimu_31 (B1), Rita130_30 (B5), Riverton_30 (B1), Robyn_30 (B1), Roliet_31 (B1), Roscoe_32 (B1), Roy17_31 (B1), SDcharge11_31 (B1), SallyH_31 (B1), Samaymay_31 (B1), SassyCat97_30 (B1), Schadenfreude_30 (B1), Schueller_30 (B1), Scoot17C_31 (B1), Scrick_31 (B1), Selr12_31 (B1), Serendipitous_29 (B5), Serendipity_31 (B1), Serpentine_0031 (B1), ShadowBud_31 (B1), Sheila_31 (B1), Shenyu_30 (B5), ShiVal_31 (B1), Sigman_31 (B1), SilverBell_31 (B1), Simielle_30 (B1), SirBeauregard_31 (B1), SirJeffery_30 (B5), Skippy_31 (B1), Slatt_31 (B1), Soile_31 (B1), Solosis_30 (B1), Sophia_30 (B1), Soto_31 (B1), Spartan300_31 (B1), Squid_31 (B1), Squiggle_31 (B1), Stinger_26 (B4), StinkyVeggy_32 (B5), Struggle_30 (B1), Suffolk_31 (B1), Suigeneris_30 (B5), Surely_31 (B1), Swiphy_31 (B1), Swish_31 (B1), TallGrassMM_31 (B1), Telesworld_30 (B1), Thora_31 (B1), ThreeOh3D2_31 (B1), Thunderbird_30 (B1), Timmi_30 (B1), TomBombadil_31 (B1), Tomlarah_31 (B1), Toni_30 (B1), TooFast2Furius_32 (B1), Tooj_31 (B1), Triad_31 (B1), True_30 (B1), Trypo_31 (B1), TyrionL_30 (B1), UAch1_31 (B1), UncleHowie_31 (B1), Usavi_31 (B1), Vaishali24_30 (B1), Valjean_31 (B1), Vaticameos_31 (B1), Veritas_30 (B1), Vincenzo_29 (B4), VioletZ_28 (B4), Virapocalypse_31 (B1), Virgeve_30 (B1), Vista_31 (B1), Vivaldi_31 (B1), Vortex_31 (B1), Waleliano_28 (B4), Wallhey_30 (B1), Waterdiva_31 (B1), Weher20_31 (B1), Windsor_30 (B1), Xavier_30 (B1), Xincheng_27 (B4), Yoshand_31 (B1), YouGoGlencoco_31 (B1), Zaider_32 (B1), Zelda_31 (B1), Zemanar_29 (B4), Zonia_31 (B1),

Start 7:

- Found in 52 of 423 (12.3%) of genes in pham
- Manual Annotations of this start: 1 of 365
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Rita1961_31 (B3),

Summary by clusters:

There are 4 clusters represented in this pham: B4, B5, B1, B3,

Info for manual annotations of cluster B1:

- Start number 5 was manually annotated 280 times for cluster B1.

Info for manual annotations of cluster B3:

- Start number 4 was manually annotated 49 times for cluster B3.

- Start number 7 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B4:

- Start number 1 was manually annotated 1 time for cluster B4.
- Start number 5 was manually annotated 24 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 5 was manually annotated 10 times for cluster B5.

Gene Information:

Gene: ABU_31 Start: 28756, Stop: 31011, Start Num: 5

Candidate Starts for ABU_31:

(Start: 5 @28756 has 314 MA's), (13, 28852), (19, 28930), (20, 28957), (27, 29056), (37, 29215), (45, 29395), (48, 29419), (56, 29509), (57, 29515), (59, 29551), (63, 29590), (65, 29599), (67, 29632), (68, 29671), (70, 29716), (74, 29767), (78, 29818), (79, 29827), (82, 29896), (86, 29971), (89, 30016), (91, 30031), (101, 30166), (105, 30220), (106, 30241), (107, 30274), (110, 30319), (113, 30373), (117, 30457), (121, 30478), (123, 30520), (124, 30559), (128, 30619), (146, 30859), (147, 30892), (148, 30895), (150, 30928), (151, 30934), (152, 30997),

Gene: Abinghost_31 Start: 28613, Stop: 30838, Start Num: 4

Candidate Starts for Abinghost_31:

(Start: 4 @28613 has 49 MA's), (Start: 7 @28628 has 1 MA's), (10, 28673), (14, 28730), (21, 28808), (26, 28877), (27, 28889), (30, 28931), (32, 28967), (33, 28994), (34, 29006), (36, 29033), (39, 29123), (43, 29195), (52, 29279), (60, 29387), (61, 29408), (68, 29501), (69, 29516), (77, 29645), (82, 29726), (86, 29801), (88, 29843), (89, 29849), (96, 29948), (101, 29999), (102, 30011), (105, 30053), (106, 30074), (109, 30128), (110, 30152), (112, 30188), (117, 30284), (119, 30293), (123, 30347), (129, 30455), (130, 30482), (134, 30524), (138, 30596), (146, 30686), (148, 30722),

Gene: AbsoluteMadLad_30 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for AbsoluteMadLad_30:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29065), (37, 29224), (45, 29404), (48, 29428), (57, 29524), (59, 29560), (63, 29599), (65, 29608), (67, 29641), (68, 29680), (70, 29725), (74, 29776), (78, 29827), (79, 29836), (82, 29905), (86, 29980), (89, 30025), (91, 30040), (101, 30175), (105, 30229), (106, 30250), (107, 30283), (110, 30328), (113, 30382), (117, 30466), (121, 30487), (123, 30529), (124, 30568), (128, 30628), (146, 30868), (147, 30901), (148, 30904), (150, 30937), (151, 30943), (152, 31006),

Gene: Acadian_30 Start: 28978, Stop: 31254, Start Num: 5

Candidate Starts for Acadian_30:

(Start: 5 @28978 has 314 MA's), (6, 28984), (8, 29026), (11, 29047), (12, 29056), (15, 29110), (17, 29131), (18, 29149), (19, 29152), (22, 29194), (23, 29200), (24, 29212), (27, 29281), (28, 29317), (37, 29440), (41, 29545), (53, 29701), (55, 29728), (58, 29779), (63, 29830), (66, 29845), (78, 30058), (81, 30094), (82, 30136), (86, 30211), (96, 30361), (99, 30385), (101, 30412), (106, 30487), (109, 30541), (117, 30700), (119, 30709), (121, 30721), (124, 30802), (125, 30805), (129, 30871), (133, 30919), (137, 30985), (146, 31102),

Gene: Adriana_31 Start: 28754, Stop: 31009, Start Num: 5

Candidate Starts for Adriana_31:

(Start: 5 @28754 has 314 MA's), (13, 28850), (19, 28928), (20, 28955), (27, 29054), (37, 29213), (45, 29393), (48, 29417), (56, 29507), (57, 29513), (59, 29549), (63, 29588), (65, 29597), (67, 29630), (68,

29669), (70, 29714), (74, 29765), (78, 29816), (79, 29825), (82, 29894), (86, 29969), (89, 30014), (91, 30029), (101, 30164), (105, 30218), (106, 30239), (107, 30272), (110, 30317), (113, 30371), (115, 30398), (117, 30455), (121, 30476), (123, 30518), (124, 30557), (128, 30617), (146, 30857), (147, 30890), (148, 30893), (150, 30926), (151, 30932), (152, 30995),

Gene: Aelin_30 Start: 28317, Stop: 30575, Start Num: 5

Candidate Starts for Aelin_30:

(Start: 5 @28317 has 314 MA's), (13, 28413), (19, 28491), (20, 28518), (27, 28620), (37, 28779), (45, 28959), (48, 28983), (57, 29079), (59, 29115), (63, 29154), (65, 29163), (67, 29196), (68, 29235), (70, 29280), (74, 29331), (78, 29382), (79, 29391), (82, 29460), (86, 29535), (89, 29580), (91, 29595), (101, 29730), (105, 29784), (106, 29805), (107, 29838), (110, 29883), (113, 29937), (115, 29964), (117, 30021), (121, 30042), (123, 30084), (124, 30123), (128, 30183), (146, 30423), (148, 30459), (150, 30492), (152, 30561),

Gene: Ahwei_27 Start: 27941, Stop: 30238, Start Num: 5

Candidate Starts for Ahwei_27:

(Start: 5 @27941 has 314 MA's), (13, 28040), (20, 28145), (24, 28181), (27, 28244), (31, 28325), (35, 28391), (37, 28403), (41, 28508), (42, 28547), (46, 28598), (48, 28607), (54, 28688), (55, 28691), (59, 28754), (64, 28796), (66, 28808), (71, 28931), (72, 28955), (77, 29018), (80, 29048), (81, 29057), (83, 29129), (84, 29150), (86, 29186), (87, 29207), (93, 29273), (94, 29285), (96, 29336), (97, 29339), (98, 29357), (100, 29381), (103, 29408), (105, 29441), (106, 29462), (107, 29495), (110, 29540), (118, 29681), (119, 29684), (121, 29696), (125, 29780), (134, 29915), (135, 29939), (139, 30002), (142, 30032), (143, 30038), (146, 30086), (147, 30119), (148, 30122), (152, 30224), (153, 30227),

Gene: Akoma_31 Start: 28614, Stop: 30842, Start Num: 4

Candidate Starts for Akoma_31:

(Start: 4 @28614 has 49 MA's), (Start: 7 @28629 has 1 MA's), (10, 28674), (14, 28731), (21, 28809), (26, 28878), (27, 28890), (30, 28932), (32, 28968), (33, 28995), (34, 29007), (36, 29034), (39, 29124), (43, 29196), (52, 29280), (60, 29388), (61, 29409), (68, 29502), (69, 29517), (77, 29646), (82, 29727), (86, 29802), (88, 29844), (89, 29850), (93, 29886), (101, 30000), (102, 30012), (105, 30054), (106, 30075), (109, 30129), (110, 30153), (117, 30288), (119, 30297), (123, 30351), (129, 30459), (130, 30486), (134, 30528), (138, 30600), (146, 30690), (148, 30726),

Gene: AlanGrant_29 Start: 29686, Stop: 31983, Start Num: 5

Candidate Starts for AlanGrant_29:

(Start: 5 @29686 has 314 MA's), (Start: 7 @29701 has 1 MA's), (13, 29785), (14, 29803), (18, 29860), (27, 29989), (41, 30253), (42, 30292), (43, 30298), (45, 30328), (46, 30343), (48, 30352), (54, 30433), (55, 30436), (62, 30535), (63, 30538), (64, 30541), (66, 30553), (71, 30676), (72, 30700), (77, 30763), (81, 30802), (83, 30874), (84, 30895), (85, 30916), (86, 30931), (87, 30952), (89, 30982), (92, 31015), (93, 31018), (94, 31030), (96, 31081), (97, 31084), (98, 31102), (100, 31126), (101, 31132), (105, 31186), (106, 31207), (109, 31261), (110, 31285), (117, 31420), (118, 31426), (119, 31429), (121, 31441), (125, 31525), (134, 31660), (135, 31684), (139, 31747), (143, 31783), (144, 31816), (146, 31831), (147, 31864), (148, 31867), (152, 31969), (153, 31972),

Gene: Aleia_31 Start: 28337, Stop: 30592, Start Num: 5

Candidate Starts for Aleia_31:

(Start: 5 @28337 has 314 MA's), (13, 28433), (19, 28511), (20, 28538), (27, 28637), (37, 28796), (45, 28976), (48, 29000), (57, 29096), (59, 29132), (63, 29171), (65, 29180), (67, 29213), (68, 29252), (70, 29297), (74, 29348), (79, 29408), (82, 29477), (86, 29552), (89, 29597), (91, 29612), (101, 29747), (105, 29801), (106, 29822), (107, 29855), (110, 29900), (113, 29954), (115, 29981), (117, 30038), (121, 30059), (123, 30101), (124, 30140), (128, 30200), (146, 30440), (148, 30476), (150, 30509), (152, 30578),

Gene: AltPhacts_31 Start: 28743, Stop: 30998, Start Num: 5

Candidate Starts for AltPhacts_31:

(Start: 5 @28743 has 314 MA's), (13, 28839), (19, 28917), (20, 28944), (27, 29043), (37, 29202), (45, 29382), (48, 29406), (57, 29502), (59, 29538), (63, 29577), (65, 29586), (67, 29619), (68, 29658), (70, 29703), (74, 29754), (78, 29805), (79, 29814), (82, 29883), (86, 29958), (89, 30003), (91, 30018), (101, 30153), (105, 30207), (106, 30228), (107, 30261), (110, 30306), (113, 30360), (115, 30387), (117, 30444), (121, 30465), (123, 30507), (124, 30546), (128, 30606), (146, 30846), (148, 30882), (150, 30915), (152, 30984),

Gene: Altwerkus_30 Start: 28443, Stop: 30698, Start Num: 5

Candidate Starts for Altwerkus_30:

(Start: 5 @28443 has 314 MA's), (13, 28539), (19, 28617), (20, 28644), (27, 28743), (37, 28902), (45, 29082), (48, 29106), (56, 29196), (57, 29202), (59, 29238), (63, 29277), (65, 29286), (67, 29319), (68, 29358), (70, 29403), (74, 29454), (78, 29505), (79, 29514), (82, 29583), (86, 29658), (89, 29703), (91, 29718), (101, 29853), (105, 29907), (106, 29928), (107, 29961), (110, 30006), (113, 30060), (115, 30087), (117, 30144), (121, 30165), (123, 30207), (124, 30246), (128, 30306), (146, 30546), (148, 30582), (150, 30615), (152, 30684),

Gene: Anderson_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Anderson_31:

(Start: 5 @28749 has 314 MA's), (13, 28845), (19, 28923), (20, 28950), (27, 29049), (37, 29208), (45, 29388), (48, 29412), (56, 29502), (57, 29508), (59, 29544), (63, 29583), (65, 29592), (67, 29625), (68, 29664), (70, 29709), (74, 29760), (78, 29811), (79, 29820), (82, 29889), (86, 29964), (89, 30009), (91, 30024), (101, 30159), (105, 30213), (106, 30234), (107, 30267), (110, 30312), (113, 30366), (115, 30393), (117, 30450), (121, 30471), (123, 30513), (124, 30552), (128, 30612), (146, 30852), (147, 30885), (148, 30888), (150, 30921), (151, 30927), (152, 30990),

Gene: Andre_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Andre_31:

(Start: 5 @28747 has 314 MA's), (13, 28843), (19, 28921), (20, 28948), (27, 29047), (37, 29206), (45, 29386), (48, 29410), (56, 29500), (57, 29506), (59, 29542), (63, 29581), (65, 29590), (67, 29623), (68, 29662), (70, 29707), (74, 29758), (78, 29809), (79, 29818), (82, 29887), (86, 29962), (89, 30007), (91, 30022), (101, 30157), (105, 30211), (106, 30232), (107, 30265), (110, 30310), (113, 30364), (115, 30391), (117, 30448), (121, 30469), (123, 30511), (124, 30550), (128, 30610), (146, 30850), (147, 30883), (148, 30886), (150, 30919), (151, 30925), (152, 30988),

Gene: AngelCake_31 Start: 28767, Stop: 31022, Start Num: 5

Candidate Starts for AngelCake_31:

(Start: 5 @28767 has 314 MA's), (13, 28863), (19, 28941), (20, 28968), (27, 29067), (37, 29226), (45, 29406), (48, 29430), (56, 29520), (57, 29526), (59, 29562), (63, 29601), (65, 29610), (67, 29643), (68, 29682), (70, 29727), (74, 29778), (78, 29829), (79, 29838), (82, 29907), (86, 29982), (89, 30027), (91, 30042), (101, 30177), (105, 30231), (106, 30252), (107, 30285), (110, 30330), (113, 30384), (115, 30411), (117, 30468), (121, 30489), (123, 30531), (124, 30570), (128, 30630), (146, 30870), (147, 30903), (148, 30906), (150, 30939), (151, 30945), (152, 31008),

Gene: Antihero_27 Start: 27941, Stop: 30238, Start Num: 5

Candidate Starts for Antihero_27:

(Start: 5 @27941 has 314 MA's), (13, 28040), (20, 28145), (24, 28181), (27, 28244), (31, 28325), (35, 28391), (37, 28403), (41, 28508), (42, 28547), (46, 28598), (48, 28607), (54, 28688), (55, 28691), (59, 28754), (64, 28796), (66, 28808), (71, 28931), (72, 28955), (77, 29018), (80, 29048), (81, 29057), (83, 29129), (84, 29150), (86, 29186), (87, 29207), (93, 29273), (94, 29285), (96, 29336), (97, 29339), (98, 29357), (100, 29381), (103, 29408), (105, 29441), (106, 29462), (107, 29495), (110, 29540), (118, 29681), (119, 29684), (121, 29696), (125, 29780), (134, 29915), (135, 29939), (139, 30002), (142,

30032), (143, 30038), (146, 30086), (147, 30119), (148, 30122), (152, 30224), (153, 30227),

Gene: Antonia_30 Start: 28317, Stop: 30575, Start Num: 5

Candidate Starts for Antonia_30:

(Start: 5 @28317 has 314 MA's), (13, 28413), (19, 28491), (20, 28518), (27, 28620), (37, 28779), (45, 28959), (48, 28983), (57, 29079), (59, 29115), (63, 29154), (65, 29163), (67, 29196), (68, 29235), (70, 29280), (74, 29331), (78, 29382), (79, 29391), (82, 29460), (86, 29535), (89, 29580), (91, 29595), (101, 29730), (105, 29784), (106, 29805), (107, 29838), (110, 29883), (113, 29937), (115, 29964), (117, 30021), (121, 30042), (123, 30084), (124, 30123), (128, 30183), (146, 30423), (148, 30459), (150, 30492), (152, 30561),

Gene: Aonishiki_31 Start: 28789, Stop: 31047, Start Num: 5

Candidate Starts for Aonishiki_31:

(Start: 5 @28789 has 314 MA's), (13, 28885), (19, 28963), (20, 28990), (27, 29092), (45, 29431), (48, 29455), (56, 29545), (57, 29551), (59, 29587), (63, 29626), (65, 29635), (67, 29668), (68, 29707), (70, 29752), (74, 29803), (78, 29854), (79, 29863), (82, 29932), (86, 30007), (89, 30052), (91, 30067), (101, 30202), (105, 30256), (106, 30277), (107, 30310), (110, 30355), (113, 30409), (117, 30493), (121, 30514), (123, 30556), (124, 30595), (128, 30655), (146, 30895), (147, 30928), (148, 30931), (150, 30964), (151, 30970), (152, 31033),

Gene: Apex_28 Start: 29148, Stop: 31445, Start Num: 5

Candidate Starts for Apex_28:

(Start: 1 @28461 has 1 MA's), (2, 28608), (Start: 5 @29148 has 314 MA's), (13, 29247), (14, 29265), (24, 29388), (27, 29451), (31, 29532), (35, 29598), (41, 29715), (42, 29754), (46, 29805), (48, 29814), (53, 29871), (54, 29895), (55, 29898), (59, 29961), (64, 30003), (66, 30015), (70, 30126), (71, 30138), (72, 30162), (77, 30225), (83, 30336), (84, 30357), (86, 30393), (87, 30414), (93, 30480), (94, 30492), (96, 30543), (97, 30546), (98, 30564), (100, 30588), (103, 30615), (105, 30648), (106, 30669), (107, 30702), (110, 30747), (118, 30888), (119, 30891), (120, 30894), (121, 30903), (125, 30987), (133, 31101), (134, 31122), (135, 31146), (139, 31209), (142, 31239), (143, 31245), (146, 31293), (147, 31326), (148, 31329), (152, 31431), (153, 31434),

Gene: Apizium_30 Start: 28508, Stop: 30766, Start Num: 5

Candidate Starts for Apizium_30:

(Start: 5 @28508 has 314 MA's), (13, 28604), (19, 28682), (20, 28709), (27, 28811), (37, 28970), (45, 29150), (48, 29174), (56, 29264), (57, 29270), (59, 29306), (63, 29345), (65, 29354), (67, 29387), (68, 29426), (70, 29471), (74, 29522), (78, 29573), (79, 29582), (82, 29651), (86, 29726), (89, 29771), (91, 29786), (101, 29921), (105, 29975), (106, 29996), (107, 30029), (110, 30074), (113, 30128), (115, 30155), (117, 30212), (121, 30233), (123, 30275), (124, 30314), (128, 30374), (146, 30614), (147, 30647), (148, 30650), (150, 30683), (151, 30689), (152, 30752),

Gene: Ashraf_30 Start: 28315, Stop: 30570, Start Num: 5

Candidate Starts for Ashraf_30:

(Start: 5 @28315 has 314 MA's), (13, 28411), (19, 28489), (20, 28516), (27, 28615), (37, 28774), (45, 28954), (48, 28978), (57, 29074), (59, 29110), (63, 29149), (65, 29158), (67, 29191), (68, 29230), (70, 29275), (74, 29326), (78, 29377), (79, 29386), (82, 29455), (86, 29530), (89, 29575), (91, 29590), (101, 29725), (105, 29779), (106, 29800), (107, 29833), (110, 29878), (113, 29932), (115, 29959), (117, 30016), (121, 30037), (123, 30079), (124, 30118), (128, 30178), (146, 30418), (148, 30454), (150, 30487), (152, 30556),

Gene: Athena_32 Start: 29364, Stop: 31589, Start Num: 4

Candidate Starts for Athena_32:

(Start: 4 @29364 has 49 MA's), (Start: 7 @29379 has 1 MA's), (10, 29424), (14, 29481), (21, 29559), (26, 29628), (27, 29640), (30, 29682), (32, 29718), (33, 29745), (34, 29757), (36, 29784), (39, 29874),

(43, 29946), (52, 30030), (60, 30138), (61, 30159), (68, 30252), (69, 30267), (77, 30396), (82, 30477), (86, 30552), (88, 30594), (89, 30600), (96, 30699), (101, 30750), (102, 30762), (105, 30804), (106, 30825), (109, 30879), (110, 30903), (112, 30939), (117, 31035), (119, 31044), (123, 31098), (129, 31206), (130, 31233), (134, 31275), (138, 31347), (146, 31437), (148, 31473),

Gene: Audrey_31 Start: 28613, Stop: 30838, Start Num: 4

Candidate Starts for Audrey_31:

(Start: 4 @28613 has 49 MA's), (Start: 7 @28628 has 1 MA's), (10, 28673), (14, 28730), (21, 28808), (26, 28877), (27, 28889), (30, 28931), (32, 28967), (33, 28994), (34, 29006), (36, 29033), (39, 29123), (43, 29195), (52, 29279), (60, 29387), (61, 29408), (68, 29501), (69, 29516), (77, 29645), (82, 29726), (86, 29801), (89, 29849), (96, 29948), (101, 29999), (102, 30011), (105, 30053), (106, 30074), (109, 30128), (110, 30152), (112, 30188), (117, 30284), (119, 30293), (123, 30347), (129, 30455), (130, 30482), (134, 30524), (138, 30596), (146, 30686), (148, 30722),

Gene: Austelle_29 Start: 29604, Stop: 31901, Start Num: 5

Candidate Starts for Austelle_29:

(Start: 1 @28917 has 1 MA's), (2, 29064), (Start: 5 @29604 has 314 MA's), (13, 29703), (14, 29721), (24, 29844), (27, 29907), (31, 29988), (35, 30054), (41, 30171), (42, 30210), (46, 30261), (48, 30270), (53, 30327), (54, 30351), (55, 30354), (59, 30417), (64, 30459), (66, 30471), (71, 30594), (72, 30618), (77, 30681), (81, 30720), (83, 30792), (84, 30813), (86, 30849), (87, 30870), (93, 30936), (94, 30948), (96, 30999), (97, 31002), (98, 31020), (100, 31044), (103, 31071), (105, 31104), (106, 31125), (107, 31158), (110, 31203), (118, 31344), (119, 31347), (121, 31359), (125, 31443), (134, 31578), (135, 31602), (139, 31665), (142, 31695), (143, 31701), (146, 31749), (147, 31782), (148, 31785), (152, 31887), (153, 31890),

Gene: Badfish_31 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Badfish_31:

(Start: 5 @28778 has 314 MA's), (13, 28874), (19, 28952), (20, 28979), (27, 29078), (37, 29237), (45, 29417), (48, 29441), (56, 29531), (57, 29537), (59, 29573), (63, 29612), (65, 29621), (67, 29654), (68, 29693), (70, 29738), (74, 29789), (78, 29840), (79, 29849), (82, 29918), (86, 29993), (89, 30038), (91, 30053), (101, 30188), (105, 30242), (106, 30263), (107, 30296), (110, 30341), (113, 30395), (117, 30479), (121, 30500), (123, 30542), (124, 30581), (128, 30641), (146, 30881), (147, 30914), (148, 30917), (150, 30950), (151, 30956), (152, 31019),

Gene: Baee_29 Start: 28752, Stop: 31019, Start Num: 5

Candidate Starts for Baee_29:

(Start: 5 @28752 has 314 MA's), (6, 28758), (10, 28809), (12, 28830), (15, 28884), (16, 28896), (17, 28905), (18, 28923), (24, 28986), (41, 29319), (49, 29421), (53, 29475), (63, 29595), (66, 29610), (67, 29637), (78, 29823), (81, 29859), (82, 29901), (89, 30027), (96, 30126), (101, 30177), (109, 30306), (110, 30330), (117, 30465), (123, 30528), (124, 30567), (125, 30570), (129, 30636), (131, 30666), (133, 30684), (137, 30750), (138, 30777), (146, 30867), (150, 30936), (152, 31005), (153, 31008),

Gene: Baloo_31 Start: 28616, Stop: 30841, Start Num: 4

Candidate Starts for Baloo_31:

(Start: 4 @28616 has 49 MA's), (Start: 7 @28631 has 1 MA's), (10, 28676), (14, 28733), (21, 28811), (26, 28880), (27, 28892), (30, 28934), (32, 28970), (33, 28997), (34, 29009), (36, 29036), (39, 29126), (43, 29198), (52, 29282), (60, 29390), (61, 29411), (68, 29504), (69, 29519), (77, 29648), (82, 29729), (86, 29804), (88, 29846), (89, 29852), (96, 29951), (101, 30002), (102, 30014), (105, 30056), (106, 30077), (109, 30131), (110, 30155), (112, 30191), (117, 30287), (119, 30296), (123, 30350), (129, 30458), (130, 30485), (134, 30527), (138, 30599), (146, 30689), (148, 30725),

Gene: Banjo_30 Start: 28454, Stop: 30709, Start Num: 5

Candidate Starts for Banjo_30:

(Start: 5 @28454 has 314 MA's), (13, 28550), (19, 28628), (20, 28655), (27, 28754), (37, 28913), (45, 29093), (48, 29117), (56, 29207), (57, 29213), (59, 29249), (63, 29288), (65, 29297), (67, 29330), (68, 29369), (70, 29414), (74, 29465), (78, 29516), (79, 29525), (82, 29594), (86, 29669), (89, 29714), (91, 29729), (101, 29864), (105, 29918), (106, 29939), (107, 29972), (110, 30017), (113, 30071), (115, 30098), (117, 30155), (121, 30176), (123, 30218), (124, 30257), (128, 30317), (146, 30557), (147, 30590), (148, 30593), (150, 30626), (151, 30632), (152, 30695),

Gene: Basato_32 Start: 28982, Stop: 31237, Start Num: 5

Candidate Starts for Basato_32:

(Start: 5 @28982 has 314 MA's), (13, 29078), (19, 29156), (20, 29183), (27, 29282), (37, 29441), (45, 29621), (48, 29645), (57, 29741), (59, 29777), (63, 29816), (65, 29825), (67, 29858), (68, 29897), (70, 29942), (74, 29993), (78, 30044), (79, 30053), (82, 30122), (86, 30197), (89, 30242), (91, 30257), (101, 30392), (105, 30446), (106, 30467), (107, 30500), (110, 30545), (113, 30599), (115, 30626), (117, 30683), (121, 30704), (123, 30746), (124, 30785), (128, 30845), (146, 31085), (148, 31121), (150, 31154), (152, 31223),

Gene: BatteryCK_30 Start: 28373, Stop: 30628, Start Num: 5

Candidate Starts for BatteryCK_30:

(Start: 5 @28373 has 314 MA's), (13, 28469), (19, 28547), (20, 28574), (27, 28673), (37, 28832), (45, 29012), (48, 29036), (56, 29126), (57, 29132), (59, 29168), (63, 29207), (65, 29216), (67, 29249), (68, 29288), (70, 29333), (74, 29384), (78, 29435), (79, 29444), (82, 29513), (86, 29588), (89, 29633), (91, 29648), (101, 29783), (105, 29837), (106, 29858), (107, 29891), (110, 29936), (113, 29990), (115, 30017), (117, 30074), (121, 30095), (123, 30137), (124, 30176), (128, 30236), (146, 30476), (147, 30509), (148, 30512), (150, 30545), (151, 30551), (152, 30614),

Gene: Beaglebox_30 Start: 28474, Stop: 30729, Start Num: 5

Candidate Starts for Beaglebox_30:

(Start: 5 @28474 has 314 MA's), (13, 28570), (19, 28648), (20, 28675), (27, 28774), (37, 28933), (45, 29113), (48, 29137), (56, 29227), (57, 29233), (59, 29269), (63, 29308), (65, 29317), (67, 29350), (68, 29389), (70, 29434), (74, 29485), (78, 29536), (79, 29545), (82, 29614), (86, 29689), (89, 29734), (91, 29749), (101, 29884), (105, 29938), (106, 29959), (107, 29992), (110, 30037), (113, 30091), (115, 30118), (117, 30175), (121, 30196), (123, 30238), (124, 30277), (128, 30337), (146, 30577), (147, 30610), (148, 30613), (150, 30646), (151, 30652), (152, 30715),

Gene: Ben11_30 Start: 28435, Stop: 30660, Start Num: 4

Candidate Starts for Ben11_30:

(Start: 4 @28435 has 49 MA's), (Start: 7 @28450 has 1 MA's), (10, 28495), (14, 28552), (21, 28630), (26, 28699), (27, 28711), (30, 28753), (32, 28789), (33, 28816), (34, 28828), (36, 28855), (39, 28945), (43, 29017), (52, 29101), (60, 29209), (61, 29230), (68, 29323), (69, 29338), (77, 29467), (82, 29548), (86, 29623), (88, 29665), (89, 29671), (96, 29770), (101, 29821), (102, 29833), (105, 29875), (106, 29896), (109, 29950), (110, 29974), (112, 30010), (117, 30106), (119, 30115), (123, 30169), (129, 30277), (130, 30304), (134, 30346), (138, 30418), (146, 30508), (148, 30544),

Gene: Bernardo_31 Start: 28703, Stop: 30928, Start Num: 4

Candidate Starts for Bernardo_31:

(Start: 4 @28703 has 49 MA's), (10, 28763), (14, 28820), (21, 28898), (26, 28967), (27, 28979), (30, 29021), (32, 29057), (34, 29096), (36, 29123), (39, 29213), (40, 29237), (43, 29285), (52, 29369), (60, 29477), (61, 29498), (68, 29591), (69, 29606), (77, 29735), (82, 29816), (86, 29891), (88, 29933), (89, 29939), (96, 30038), (101, 30089), (102, 30101), (105, 30143), (106, 30164), (109, 30218), (110, 30242), (112, 30278), (117, 30374), (119, 30383), (123, 30437), (129, 30545), (130, 30572), (134, 30614), (138, 30686), (146, 30776), (148, 30812),

Gene: Bishoperium_30 Start: 28463, Stop: 30718, Start Num: 5

Candidate Starts for Bishoperium_30:

(Start: 5 @28463 has 314 MA's), (13, 28559), (19, 28637), (20, 28664), (27, 28763), (37, 28922), (45, 29102), (48, 29126), (56, 29216), (57, 29222), (59, 29258), (63, 29297), (65, 29306), (67, 29339), (68, 29378), (70, 29423), (74, 29474), (78, 29525), (79, 29534), (82, 29603), (86, 29678), (89, 29723), (91, 29738), (101, 29873), (105, 29927), (106, 29948), (107, 29981), (110, 30026), (113, 30080), (115, 30107), (117, 30164), (121, 30185), (123, 30227), (124, 30266), (128, 30326), (146, 30566), (147, 30599), (148, 30602), (150, 30635), (151, 30641), (152, 30704),

Gene: BlackStallion_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for BlackStallion_31:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29065), (37, 29224), (45, 29404), (48, 29428), (56, 29518), (57, 29524), (59, 29560), (63, 29599), (65, 29608), (67, 29641), (68, 29680), (70, 29725), (74, 29776), (78, 29827), (79, 29836), (82, 29905), (86, 29980), (89, 30025), (91, 30040), (101, 30175), (105, 30229), (106, 30250), (107, 30283), (110, 30328), (113, 30382), (117, 30466), (121, 30487), (123, 30529), (124, 30568), (128, 30628), (146, 30868), (147, 30901), (148, 30904), (150, 30937), (151, 30943), (152, 31006),

Gene: BlackSBerry_30 Start: 28475, Stop: 30736, Start Num: 5

Candidate Starts for BlackSBerry_30:

(Start: 5 @28475 has 314 MA's), (13, 28571), (19, 28649), (20, 28676), (25, 28751), (27, 28781), (37, 28940), (45, 29120), (48, 29144), (57, 29240), (59, 29276), (63, 29315), (65, 29324), (67, 29357), (68, 29396), (70, 29441), (74, 29492), (79, 29552), (82, 29621), (86, 29696), (89, 29741), (91, 29756), (101, 29891), (105, 29945), (106, 29966), (107, 29999), (110, 30044), (113, 30098), (115, 30125), (117, 30182), (121, 30203), (123, 30245), (124, 30284), (128, 30344), (146, 30584), (148, 30620), (150, 30653), (152, 30722),

Gene: BlueHusk_31 Start: 28262, Stop: 30517, Start Num: 5

Candidate Starts for BlueHusk_31:

(Start: 5 @28262 has 314 MA's), (13, 28358), (19, 28436), (20, 28463), (27, 28562), (37, 28721), (45, 28901), (48, 28925), (57, 29021), (59, 29057), (63, 29096), (65, 29105), (67, 29138), (68, 29177), (70, 29222), (74, 29273), (78, 29324), (79, 29333), (82, 29402), (86, 29477), (89, 29522), (91, 29537), (101, 29672), (105, 29726), (106, 29747), (107, 29780), (110, 29825), (113, 29879), (115, 29906), (117, 29963), (121, 29984), (123, 30026), (124, 30065), (128, 30125), (146, 30365), (148, 30401), (150, 30434), (152, 30503),

Gene: Bluephacebaby_30 Start: 28460, Stop: 30715, Start Num: 5

Candidate Starts for Bluephacebaby_30:

(Start: 5 @28460 has 314 MA's), (13, 28556), (19, 28634), (20, 28661), (27, 28760), (37, 28919), (45, 29099), (48, 29123), (56, 29213), (57, 29219), (59, 29255), (63, 29294), (65, 29303), (67, 29336), (68, 29375), (70, 29420), (74, 29471), (78, 29522), (79, 29531), (82, 29600), (86, 29675), (89, 29720), (91, 29735), (101, 29870), (105, 29924), (106, 29945), (107, 29978), (110, 30023), (113, 30077), (115, 30104), (117, 30161), (121, 30182), (123, 30224), (124, 30263), (128, 30323), (146, 30563), (147, 30596), (148, 30599), (150, 30632), (151, 30638), (152, 30701),

Gene: BobbyK_28 Start: 28973, Stop: 31270, Start Num: 5

Candidate Starts for BobbyK_28:

(Start: 1 @28286 has 1 MA's), (2, 28433), (Start: 5 @28973 has 314 MA's), (13, 29072), (14, 29090), (24, 29213), (27, 29276), (31, 29357), (35, 29423), (41, 29540), (42, 29579), (48, 29639), (53, 29696), (54, 29720), (55, 29723), (59, 29786), (64, 29828), (71, 29963), (72, 29987), (77, 30050), (81, 30089), (83, 30161), (84, 30182), (86, 30218), (87, 30239), (93, 30305), (94, 30317), (96, 30368), (97, 30371), (98, 30389), (100, 30413), (103, 30440), (105, 30473), (106, 30494), (107, 30527), (110, 30572), (118, 30713), (119, 30716), (121, 30728), (125, 30812), (133, 30926), (134, 30947), (135, 30971), (139, 31034), (142, 31064), (143, 31070), (146, 31118), (147, 31151), (148, 31154), (152, 31256), (153,

31259),

Gene: Boehler_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Boehler_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: BoogieWoogie_30 Start: 28447, Stop: 30702, Start Num: 5

Candidate Starts for BoogieWoogie_30:

(Start: 5 @28447 has 314 MA's), (13, 28543), (19, 28621), (20, 28648), (27, 28747), (37, 28906), (45, 29086), (48, 29110), (56, 29200), (57, 29206), (59, 29242), (63, 29281), (65, 29290), (67, 29323), (68, 29362), (70, 29407), (74, 29458), (78, 29509), (79, 29518), (82, 29587), (86, 29662), (89, 29707), (91, 29722), (101, 29857), (105, 29911), (106, 29932), (107, 29965), (110, 30010), (113, 30064), (115, 30091), (117, 30148), (121, 30169), (123, 30211), (124, 30250), (128, 30310), (146, 30550), (147, 30583), (148, 30586), (150, 30619), (151, 30625), (152, 30688),

Gene: Briakila_31 Start: 29378, Stop: 31603, Start Num: 4

Candidate Starts for Briakila_31:

(Start: 4 @29378 has 49 MA's), (Start: 7 @29393 has 1 MA's), (10, 29438), (14, 29495), (21, 29573), (26, 29642), (27, 29654), (30, 29696), (32, 29732), (33, 29759), (34, 29771), (36, 29798), (39, 29888), (43, 29960), (52, 30044), (60, 30152), (61, 30173), (68, 30266), (69, 30281), (77, 30410), (82, 30491), (86, 30566), (88, 30608), (89, 30614), (96, 30713), (101, 30764), (102, 30776), (105, 30818), (106, 30839), (109, 30893), (110, 30917), (112, 30953), (117, 31049), (119, 31058), (123, 31112), (129, 31220), (130, 31247), (134, 31289), (138, 31361), (146, 31451), (148, 31487),

Gene: Brilliant_31 Start: 28471, Stop: 30726, Start Num: 5

Candidate Starts for Brilliant_31:

(Start: 5 @28471 has 314 MA's), (13, 28567), (19, 28645), (20, 28672), (27, 28771), (37, 28930), (45, 29110), (48, 29134), (57, 29230), (59, 29266), (63, 29305), (65, 29314), (67, 29347), (68, 29386), (70, 29431), (74, 29482), (78, 29533), (79, 29542), (82, 29611), (86, 29686), (89, 29731), (91, 29746), (101, 29881), (105, 29935), (106, 29956), (107, 29989), (110, 30034), (113, 30088), (115, 30115), (117, 30172), (121, 30193), (123, 30235), (124, 30274), (128, 30334), (146, 30574), (148, 30610), (150, 30643), (152, 30712),

Gene: BrownCNA_29 Start: 29234, Stop: 31531, Start Num: 5

Candidate Starts for BrownCNA_29:

(Start: 1 @28547 has 1 MA's), (2, 28694), (Start: 5 @29234 has 314 MA's), (13, 29333), (14, 29351), (24, 29474), (27, 29537), (31, 29618), (35, 29684), (41, 29801), (42, 29840), (46, 29891), (48, 29900), (53, 29957), (54, 29981), (55, 29984), (59, 30047), (64, 30089), (66, 30101), (71, 30224), (72, 30248), (75, 30278), (76, 30281), (77, 30311), (83, 30422), (84, 30443), (85, 30464), (86, 30479), (87, 30500), (93, 30566), (96, 30629), (97, 30632), (98, 30650), (100, 30674), (103, 30701), (105, 30734), (106, 30755), (107, 30788), (110, 30833), (118, 30974), (121, 30989), (125, 31073), (133, 31187), (134, 31208), (135, 31232), (139, 31295), (142, 31325), (146, 31379), (147, 31412), (148, 31415), (152, 31517), (153, 31520),

Gene: Buckeye_31 Start: 28783, Stop: 31038, Start Num: 5

Candidate Starts for Buckeye_31:

(Start: 5 @28783 has 314 MA's), (13, 28879), (19, 28957), (20, 28984), (27, 29083), (37, 29242), (45, 29422), (48, 29446), (56, 29536), (57, 29542), (59, 29578), (63, 29617), (65, 29626), (67, 29659), (68,

29698), (70, 29743), (74, 29794), (78, 29845), (79, 29854), (82, 29923), (86, 29998), (89, 30043), (91, 30058), (101, 30193), (105, 30247), (106, 30268), (107, 30301), (110, 30346), (113, 30400), (115, 30427), (117, 30484), (121, 30505), (123, 30547), (124, 30586), (128, 30646), (146, 30886), (147, 30919), (148, 30922), (150, 30955), (151, 30961), (152, 31024),

Gene: Burr_30 Start: 28459, Stop: 30714, Start Num: 5

Candidate Starts for Burr_30:

(Start: 5 @28459 has 314 MA's), (13, 28555), (19, 28633), (20, 28660), (27, 28759), (37, 28918), (45, 29098), (48, 29122), (56, 29212), (57, 29218), (59, 29254), (63, 29293), (65, 29302), (67, 29335), (68, 29374), (70, 29419), (74, 29470), (78, 29521), (79, 29530), (82, 29599), (86, 29674), (89, 29719), (91, 29734), (101, 29869), (105, 29923), (106, 29944), (107, 29977), (110, 30022), (113, 30076), (115, 30103), (117, 30160), (121, 30181), (123, 30223), (124, 30262), (128, 30322), (146, 30562), (147, 30595), (148, 30598), (150, 30631), (151, 30637), (152, 30700),

Gene: CamL_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for CamL_31:

(Start: 5 @28761 has 314 MA's), (13, 28857), (19, 28935), (20, 28962), (27, 29061), (37, 29220), (45, 29400), (48, 29424), (56, 29514), (57, 29520), (59, 29556), (63, 29595), (65, 29604), (67, 29637), (68, 29676), (70, 29721), (74, 29772), (78, 29823), (79, 29832), (82, 29901), (86, 29976), (89, 30021), (91, 30036), (101, 30171), (105, 30225), (106, 30246), (107, 30279), (110, 30324), (113, 30378), (115, 30405), (117, 30462), (121, 30483), (123, 30525), (124, 30564), (128, 30624), (146, 30864), (147, 30897), (148, 30900), (150, 30933), (151, 30939), (152, 31002),

Gene: CampRoach_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for CampRoach_31:

(Start: 5 @28751 has 314 MA's), (13, 28847), (19, 28925), (20, 28952), (27, 29051), (37, 29210), (45, 29390), (48, 29414), (56, 29504), (57, 29510), (59, 29546), (63, 29585), (65, 29594), (67, 29627), (68, 29666), (70, 29711), (74, 29762), (78, 29813), (79, 29822), (82, 29891), (86, 29966), (89, 30011), (91, 30026), (101, 30161), (105, 30215), (106, 30236), (107, 30269), (110, 30314), (113, 30368), (115, 30395), (117, 30452), (121, 30473), (123, 30515), (124, 30554), (128, 30614), (146, 30854), (147, 30887), (148, 30890), (150, 30923), (151, 30929), (152, 30992),

Gene: Cannibal_31 Start: 28744, Stop: 30999, Start Num: 5

Candidate Starts for Cannibal_31:

(Start: 5 @28744 has 314 MA's), (13, 28840), (19, 28918), (20, 28945), (27, 29044), (37, 29203), (45, 29383), (48, 29407), (56, 29497), (57, 29503), (59, 29539), (63, 29578), (65, 29587), (67, 29620), (68, 29659), (70, 29704), (74, 29755), (78, 29806), (79, 29815), (82, 29884), (86, 29959), (89, 30004), (91, 30019), (101, 30154), (105, 30208), (106, 30229), (107, 30262), (110, 30307), (113, 30361), (115, 30388), (117, 30445), (121, 30466), (123, 30508), (124, 30547), (128, 30607), (146, 30847), (148, 30883), (150, 30916), (152, 30985),

Gene: Carthage_29 Start: 27670, Stop: 29928, Start Num: 5

Candidate Starts for Carthage_29:

(Start: 5 @27670 has 314 MA's), (13, 27766), (19, 27844), (20, 27871), (27, 27973), (45, 28312), (48, 28336), (56, 28426), (57, 28432), (59, 28468), (63, 28507), (67, 28549), (68, 28588), (70, 28633), (74, 28684), (78, 28735), (79, 28744), (82, 28813), (86, 28888), (89, 28933), (91, 28948), (101, 29083), (105, 29137), (106, 29158), (107, 29191), (110, 29236), (113, 29290), (115, 29317), (117, 29374), (121, 29395), (123, 29437), (124, 29476), (128, 29536), (146, 29776), (147, 29809), (148, 29812), (150, 29845), (151, 29851), (152, 29914),

Gene: Casbah_30 Start: 28465, Stop: 30690, Start Num: 4

Candidate Starts for Casbah_30:

(Start: 4 @28465 has 49 MA's), (Start: 7 @28480 has 1 MA's), (10, 28525), (14, 28582), (21, 28660), (26, 28729), (27, 28741), (30, 28783), (32, 28819), (33, 28846), (34, 28858), (36, 28885), (39, 28975), (43, 29047), (52, 29131), (60, 29239), (61, 29260), (68, 29353), (69, 29368), (77, 29497), (82, 29578), (86, 29653), (88, 29695), (89, 29701), (93, 29737), (101, 29851), (102, 29863), (105, 29905), (106, 29926), (109, 29980), (110, 30004), (117, 30136), (119, 30145), (123, 30199), (129, 30307), (130, 30334), (134, 30376), (138, 30448), (146, 30538), (148, 30574),

Gene: Caspiboi_30 Start: 28470, Stop: 30725, Start Num: 5

Candidate Starts for Caspiboi_30:

(Start: 5 @28470 has 314 MA's), (13, 28566), (19, 28644), (20, 28671), (27, 28770), (37, 28929), (45, 29109), (48, 29133), (57, 29229), (59, 29265), (63, 29304), (65, 29313), (67, 29346), (68, 29385), (70, 29430), (74, 29481), (78, 29532), (79, 29541), (82, 29610), (86, 29685), (89, 29730), (91, 29745), (101, 29880), (105, 29934), (106, 29955), (107, 29988), (110, 30033), (113, 30087), (115, 30114), (117, 30171), (121, 30192), (123, 30234), (124, 30273), (128, 30333), (146, 30573), (148, 30609), (150, 30642), (152, 30711),

Gene: ChaChing_31 Start: 28628, Stop: 30853, Start Num: 4

Candidate Starts for ChaChing_31:

(Start: 4 @28628 has 49 MA's), (Start: 7 @28643 has 1 MA's), (10, 28688), (14, 28745), (21, 28823), (26, 28892), (27, 28904), (30, 28946), (32, 28982), (33, 29009), (34, 29021), (36, 29048), (39, 29138), (43, 29210), (52, 29294), (60, 29402), (61, 29423), (68, 29516), (69, 29531), (77, 29660), (82, 29741), (86, 29816), (88, 29858), (89, 29864), (93, 29900), (101, 30014), (102, 30026), (105, 30068), (106, 30089), (109, 30143), (110, 30167), (112, 30203), (117, 30299), (119, 30308), (123, 30362), (129, 30470), (130, 30497), (134, 30539), (138, 30611), (146, 30701), (148, 30737),

Gene: Chaelin_31 Start: 28458, Stop: 30713, Start Num: 5

Candidate Starts for Chaelin_31:

(Start: 5 @28458 has 314 MA's), (13, 28554), (19, 28632), (20, 28659), (27, 28758), (37, 28917), (45, 29097), (48, 29121), (57, 29217), (59, 29253), (63, 29292), (65, 29301), (67, 29334), (68, 29373), (70, 29418), (74, 29469), (79, 29529), (82, 29598), (86, 29673), (89, 29718), (91, 29733), (101, 29868), (105, 29922), (106, 29943), (107, 29976), (110, 30021), (113, 30075), (115, 30102), (117, 30159), (121, 30180), (123, 30222), (124, 30261), (128, 30321), (146, 30561), (148, 30597), (150, 30630), (152, 30699),

Gene: Chah_32 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Chah_32:

(Start: 5 @28778 has 314 MA's), (13, 28874), (19, 28952), (20, 28979), (27, 29078), (37, 29237), (45, 29417), (48, 29441), (56, 29531), (57, 29537), (59, 29573), (63, 29612), (65, 29621), (67, 29654), (68, 29693), (70, 29738), (74, 29789), (78, 29840), (79, 29849), (82, 29918), (86, 29993), (89, 30038), (91, 30053), (101, 30188), (105, 30242), (106, 30263), (107, 30296), (110, 30341), (113, 30395), (115, 30422), (117, 30479), (121, 30500), (123, 30542), (124, 30581), (128, 30641), (146, 30881), (147, 30914), (148, 30917), (150, 30950), (151, 30956), (152, 31019),

Gene: Chalmers_31 Start: 29420, Stop: 31645, Start Num: 4

Candidate Starts for Chalmers_31:

(Start: 4 @29420 has 49 MA's), (10, 29480), (14, 29537), (21, 29615), (26, 29684), (27, 29696), (30, 29738), (32, 29774), (33, 29801), (34, 29813), (36, 29840), (39, 29930), (43, 30002), (52, 30086), (60, 30194), (61, 30215), (68, 30308), (69, 30323), (77, 30452), (82, 30533), (86, 30608), (88, 30650), (89, 30656), (93, 30692), (101, 30806), (102, 30818), (105, 30860), (106, 30881), (109, 30935), (110, 30959), (112, 30995), (117, 31091), (119, 31100), (123, 31154), (129, 31262), (130, 31289), (134, 31331), (138, 31403), (146, 31493), (148, 31529),

Gene: Chandler_31 Start: 29393, Stop: 31621, Start Num: 4

Candidate Starts for Chandler_31:

(Start: 4 @29393 has 49 MA's), (Start: 7 @29408 has 1 MA's), (10, 29453), (14, 29510), (21, 29588), (26, 29657), (27, 29669), (30, 29711), (32, 29747), (33, 29774), (34, 29786), (36, 29813), (39, 29903), (43, 29975), (52, 30059), (60, 30167), (61, 30188), (68, 30281), (69, 30296), (77, 30425), (82, 30506), (86, 30581), (88, 30623), (89, 30629), (93, 30665), (101, 30779), (102, 30791), (105, 30833), (106, 30854), (109, 30908), (110, 30932), (112, 30968), (117, 31067), (119, 31076), (123, 31130), (129, 31238), (130, 31265), (134, 31307), (138, 31379), (146, 31469), (148, 31505),

Gene: Charles1_31 Start: 28746, Stop: 31001, Start Num: 5

Candidate Starts for Charles1_31:

(Start: 5 @28746 has 314 MA's), (13, 28842), (19, 28920), (20, 28947), (27, 29046), (37, 29205), (45, 29385), (48, 29409), (56, 29499), (57, 29505), (59, 29541), (63, 29580), (65, 29589), (67, 29622), (68, 29661), (70, 29706), (74, 29757), (78, 29808), (79, 29817), (82, 29886), (86, 29961), (89, 30006), (91, 30021), (101, 30156), (105, 30210), (106, 30231), (107, 30264), (110, 30309), (113, 30363), (115, 30390), (117, 30447), (121, 30468), (123, 30510), (124, 30549), (128, 30609), (146, 30849), (147, 30882), (148, 30885), (150, 30918), (151, 30924), (152, 30987),

Gene: CharlieGBrown_30 Start: 28335, Stop: 30590, Start Num: 5

Candidate Starts for CharlieGBrown_30:

(Start: 5 @28335 has 314 MA's), (13, 28431), (19, 28509), (20, 28536), (27, 28635), (37, 28794), (45, 28974), (48, 28998), (57, 29094), (59, 29130), (63, 29169), (65, 29178), (67, 29211), (68, 29250), (70, 29295), (74, 29346), (79, 29406), (82, 29475), (86, 29550), (89, 29595), (91, 29610), (101, 29745), (105, 29799), (106, 29820), (107, 29853), (110, 29898), (113, 29952), (115, 29979), (117, 30036), (121, 30057), (123, 30099), (124, 30138), (128, 30198), (146, 30438), (147, 30471), (148, 30474), (150, 30507), (152, 30576),

Gene: CheetO_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for CheetO_31:

(Start: 5 @28760 has 314 MA's), (13, 28856), (19, 28934), (20, 28961), (27, 29060), (37, 29219), (45, 29399), (48, 29423), (57, 29519), (59, 29555), (63, 29594), (65, 29603), (67, 29636), (68, 29675), (70, 29720), (74, 29771), (78, 29822), (79, 29831), (82, 29900), (86, 29975), (89, 30020), (91, 30035), (101, 30170), (105, 30224), (106, 30245), (107, 30278), (110, 30323), (113, 30377), (115, 30404), (117, 30461), (121, 30482), (123, 30524), (124, 30563), (128, 30623), (146, 30863), (148, 30899), (150, 30932), (152, 31001),

Gene: Chentzyk_30 Start: 28483, Stop: 30711, Start Num: 4

Candidate Starts for Chentzyk_30:

(Start: 4 @28483 has 49 MA's), (Start: 7 @28498 has 1 MA's), (10, 28543), (14, 28600), (21, 28678), (26, 28747), (27, 28759), (30, 28801), (32, 28837), (33, 28864), (34, 28876), (36, 28903), (39, 28993), (43, 29065), (52, 29149), (60, 29257), (61, 29278), (68, 29371), (69, 29386), (77, 29515), (82, 29596), (86, 29671), (88, 29713), (89, 29719), (93, 29755), (101, 29869), (102, 29881), (105, 29923), (106, 29944), (109, 29998), (110, 30022), (112, 30058), (117, 30157), (119, 30166), (123, 30220), (129, 30328), (130, 30355), (134, 30397), (138, 30469), (146, 30559), (148, 30595),

Gene: Cher_30 Start: 28483, Stop: 30738, Start Num: 5

Candidate Starts for Cher_30:

(Start: 5 @28483 has 314 MA's), (13, 28579), (19, 28657), (20, 28684), (27, 28783), (37, 28942), (45, 29122), (48, 29146), (56, 29236), (57, 29242), (59, 29278), (63, 29317), (65, 29326), (67, 29359), (68, 29398), (70, 29443), (74, 29494), (78, 29545), (79, 29554), (82, 29623), (86, 29698), (89, 29743), (91, 29758), (101, 29893), (105, 29947), (106, 29968), (107, 30001), (110, 30046), (113, 30100), (115, 30127), (117, 30184), (121, 30205), (123, 30247), (124, 30286), (128, 30346), (146, 30586), (147, 30619), (148, 30622), (150, 30655), (151, 30661), (152, 30724),

Gene: Childish_30 Start: 28486, Stop: 30741, Start Num: 5

Candidate Starts for Childish_30:

(Start: 5 @28486 has 314 MA's), (13, 28582), (19, 28660), (20, 28687), (27, 28786), (37, 28945), (45, 29125), (48, 29149), (56, 29239), (57, 29245), (59, 29281), (63, 29320), (65, 29329), (67, 29362), (68, 29401), (70, 29446), (74, 29497), (78, 29548), (79, 29557), (82, 29626), (86, 29701), (89, 29746), (91, 29761), (101, 29896), (105, 29950), (106, 29971), (107, 30004), (110, 30049), (113, 30103), (115, 30130), (117, 30187), (121, 30208), (123, 30250), (124, 30289), (128, 30349), (146, 30589), (148, 30625), (150, 30658), (152, 30727),

Gene: Chipette_32 Start: 28976, Stop: 31231, Start Num: 5

Candidate Starts for Chipette_32:

(Start: 5 @28976 has 314 MA's), (13, 29072), (19, 29150), (20, 29177), (27, 29276), (37, 29435), (45, 29615), (48, 29639), (57, 29735), (59, 29771), (63, 29810), (65, 29819), (67, 29852), (68, 29891), (70, 29936), (74, 29987), (78, 30038), (79, 30047), (82, 30116), (86, 30191), (89, 30236), (91, 30251), (101, 30386), (105, 30440), (106, 30461), (107, 30494), (110, 30539), (113, 30593), (115, 30620), (117, 30677), (121, 30698), (123, 30740), (124, 30779), (128, 30839), (146, 31079), (148, 31115), (150, 31148), (152, 31217),

Gene: Chorkpop_31 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Chorkpop_31:

(Start: 5 @28482 has 314 MA's), (13, 28578), (19, 28656), (20, 28683), (27, 28782), (37, 28941), (45, 29121), (48, 29145), (56, 29235), (57, 29241), (59, 29277), (63, 29316), (65, 29325), (67, 29358), (68, 29397), (70, 29442), (74, 29493), (78, 29544), (79, 29553), (82, 29622), (86, 29697), (89, 29742), (91, 29757), (101, 29892), (105, 29946), (106, 29967), (107, 30000), (110, 30045), (113, 30099), (115, 30126), (117, 30183), (121, 30204), (123, 30246), (124, 30285), (128, 30345), (146, 30585), (148, 30621), (150, 30654), (152, 30723),

Gene: ChrisnMich_27 Start: 27933, Stop: 30230, Start Num: 5

Candidate Starts for ChrisnMich_27:

(Start: 5 @27933 has 314 MA's), (13, 28032), (14, 28050), (24, 28173), (27, 28236), (31, 28317), (35, 28383), (37, 28395), (41, 28500), (42, 28539), (46, 28590), (48, 28599), (54, 28680), (55, 28683), (59, 28746), (64, 28788), (66, 28800), (71, 28923), (72, 28947), (77, 29010), (81, 29049), (83, 29121), (84, 29142), (86, 29178), (87, 29199), (93, 29265), (94, 29277), (96, 29328), (97, 29331), (98, 29349), (100, 29373), (103, 29400), (105, 29433), (106, 29454), (107, 29487), (110, 29532), (118, 29673), (119, 29676), (121, 29688), (125, 29772), (134, 29907), (135, 29931), (139, 29994), (142, 30024), (143, 30030), (146, 30078), (147, 30111), (148, 30114), (152, 30216), (153, 30219),

Gene: Chuni_30 Start: 28776, Stop: 31031, Start Num: 5

Candidate Starts for Chuni_30:

(Start: 5 @28776 has 314 MA's), (13, 28872), (19, 28950), (20, 28977), (27, 29076), (37, 29235), (45, 29415), (48, 29439), (57, 29535), (59, 29571), (63, 29610), (65, 29619), (67, 29652), (68, 29691), (70, 29736), (74, 29787), (78, 29838), (79, 29847), (82, 29916), (86, 29991), (89, 30036), (91, 30051), (101, 30186), (105, 30240), (106, 30261), (107, 30294), (110, 30339), (113, 30393), (115, 30420), (117, 30477), (121, 30498), (123, 30540), (124, 30579), (128, 30639), (146, 30879), (148, 30915), (150, 30948), (152, 31017),

Gene: Chunky_31 Start: 28766, Stop: 31024, Start Num: 5

Candidate Starts for Chunky_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29069), (37, 29228), (45, 29408), (48, 29432), (57, 29528), (59, 29564), (63, 29603), (65, 29612), (67, 29645), (68, 29684), (70, 29729), (74, 29780), (78, 29831), (79, 29840), (82, 29909), (86, 29984), (89, 30029), (91, 30044), (101, 30179), (105, 30233), (106, 30254), (107, 30287), (110, 30332), (113, 30386), (115, 30413), (117, 30470), (121, 30491), (123, 30533), (124, 30572), (128, 30632), (146, 30872), (147, 30905), (148,

30908), (150, 30941), (151, 30947), (152, 31010),

Gene: Chute_30 Start: 28801, Stop: 31062, Start Num: 5

Candidate Starts for Chute_30:

(Start: 5 @28801 has 314 MA's), (13, 28897), (19, 28975), (20, 29002), (25, 29077), (27, 29107), (37, 29266), (45, 29446), (48, 29470), (57, 29566), (59, 29602), (63, 29641), (65, 29650), (67, 29683), (68, 29722), (70, 29767), (74, 29818), (79, 29878), (82, 29947), (86, 30022), (89, 30067), (91, 30082), (101, 30217), (105, 30271), (106, 30292), (107, 30325), (110, 30370), (113, 30424), (115, 30451), (117, 30508), (121, 30529), (123, 30571), (124, 30610), (128, 30670), (146, 30910), (148, 30946), (150, 30979), (152, 31048),

Gene: Cobra_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Cobra_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (148, 30905), (150, 30938), (152, 31007),

Gene: Colbert_31 Start: 28819, Stop: 31077, Start Num: 5

Candidate Starts for Colbert_31:

(Start: 5 @28819 has 314 MA's), (13, 28915), (19, 28993), (20, 29020), (27, 29122), (37, 29281), (45, 29461), (48, 29485), (57, 29581), (59, 29617), (63, 29656), (65, 29665), (67, 29698), (68, 29737), (70, 29782), (74, 29833), (78, 29884), (79, 29893), (82, 29962), (86, 30037), (89, 30082), (91, 30097), (101, 30232), (105, 30286), (106, 30307), (107, 30340), (110, 30385), (113, 30439), (115, 30466), (117, 30523), (121, 30544), (123, 30586), (124, 30625), (128, 30685), (146, 30925), (147, 30958), (148, 30961), (150, 30994), (151, 31000), (152, 31063),

Gene: Coletti_31 Start: 28801, Stop: 31062, Start Num: 5

Candidate Starts for Coletti_31:

(Start: 5 @28801 has 314 MA's), (13, 28897), (19, 28975), (20, 29002), (25, 29077), (27, 29107), (37, 29266), (45, 29446), (48, 29470), (57, 29566), (59, 29602), (63, 29641), (65, 29650), (67, 29683), (68, 29722), (70, 29767), (74, 29818), (79, 29878), (82, 29947), (86, 30022), (89, 30067), (91, 30082), (101, 30217), (105, 30271), (106, 30292), (107, 30325), (110, 30370), (113, 30424), (115, 30451), (117, 30508), (121, 30529), (123, 30571), (124, 30610), (128, 30670), (146, 30910), (148, 30946), (150, 30979), (152, 31048),

Gene: Compostia_32 Start: 29043, Stop: 31268, Start Num: 4

Candidate Starts for Compostia_32:

(Start: 4 @29043 has 49 MA's), (Start: 7 @29058 has 1 MA's), (10, 29103), (14, 29160), (21, 29238), (26, 29307), (27, 29319), (30, 29361), (32, 29397), (33, 29424), (34, 29436), (36, 29463), (39, 29553), (43, 29625), (52, 29709), (60, 29817), (61, 29838), (68, 29931), (69, 29946), (77, 30075), (82, 30156), (86, 30231), (88, 30273), (89, 30279), (96, 30378), (101, 30429), (102, 30441), (105, 30483), (106, 30504), (109, 30558), (110, 30582), (112, 30618), (117, 30714), (119, 30723), (123, 30777), (129, 30885), (130, 30912), (134, 30954), (138, 31026), (146, 31116), (148, 31152),

Gene: Cooper_28 Start: 28155, Stop: 30443, Start Num: 5

Candidate Starts for Cooper_28:

(Start: 5 @28155 has 314 MA's), (11, 28227), (13, 28254), (14, 28272), (27, 28458), (31, 28539), (35, 28605), (41, 28722), (42, 28761), (48, 28821), (54, 28902), (55, 28905), (59, 28968), (66, 29022), (71, 29145), (72, 29169), (77, 29232), (81, 29271), (83, 29343), (84, 29364), (85, 29385), (86, 29400), (87, 29421), (94, 29499), (96, 29550), (97, 29553), (98, 29571), (100, 29595), (103, 29622), (105, 29655),

(106, 29676), (107, 29709), (110, 29754), (118, 29895), (119, 29898), (121, 29910), (125, 29994), (126, 30006), (133, 30108), (134, 30129), (136, 30159), (143, 30243), (146, 30291), (147, 30324), (148, 30327), (152, 30429), (153, 30432),

Gene: Cornbread_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Cornbread_30:

(Start: 5 @28482 has 314 MA's), (13, 28578), (19, 28656), (20, 28683), (27, 28782), (37, 28941), (45, 29121), (48, 29145), (56, 29235), (57, 29241), (59, 29277), (63, 29316), (65, 29325), (67, 29358), (68, 29397), (70, 29442), (74, 29493), (78, 29544), (79, 29553), (82, 29622), (86, 29697), (89, 29742), (91, 29757), (101, 29892), (105, 29946), (106, 29967), (107, 30000), (110, 30045), (113, 30099), (115, 30126), (117, 30183), (121, 30204), (123, 30246), (124, 30285), (128, 30345), (146, 30585), (147, 30618), (148, 30621), (150, 30654), (151, 30660), (152, 30723),

Gene: Cornobble_30 Start: 28318, Stop: 30576, Start Num: 5

Candidate Starts for Cornobble_30:

(Start: 5 @28318 has 314 MA's), (13, 28414), (19, 28492), (20, 28519), (27, 28621), (37, 28780), (45, 28960), (48, 28984), (57, 29080), (59, 29116), (63, 29155), (65, 29164), (67, 29197), (68, 29236), (70, 29281), (74, 29332), (78, 29383), (79, 29392), (82, 29461), (86, 29536), (89, 29581), (91, 29596), (101, 29731), (105, 29785), (106, 29806), (107, 29839), (110, 29884), (113, 29938), (117, 30022), (121, 30043), (123, 30085), (124, 30124), (128, 30184), (146, 30424), (147, 30457), (148, 30460), (150, 30493), (151, 30499), (152, 30562),

Gene: Corofin_31 Start: 28638, Stop: 30863, Start Num: 4

Candidate Starts for Corofin_31:

(Start: 4 @28638 has 49 MA's), (Start: 7 @28653 has 1 MA's), (10, 28698), (14, 28755), (21, 28833), (26, 28902), (27, 28914), (30, 28956), (32, 28992), (33, 29019), (34, 29031), (36, 29058), (39, 29148), (43, 29220), (52, 29304), (60, 29412), (61, 29433), (68, 29526), (69, 29541), (77, 29670), (82, 29751), (86, 29826), (88, 29868), (89, 29874), (93, 29910), (101, 30024), (102, 30036), (105, 30078), (106, 30099), (109, 30153), (110, 30177), (112, 30213), (117, 30309), (119, 30318), (123, 30372), (129, 30480), (130, 30507), (134, 30549), (138, 30621), (146, 30711), (148, 30747),

Gene: Cosmolli16_30 Start: 28480, Stop: 30735, Start Num: 5

Candidate Starts for Cosmolli16_30:

(Start: 5 @28480 has 314 MA's), (13, 28576), (19, 28654), (20, 28681), (27, 28780), (37, 28939), (45, 29119), (48, 29143), (56, 29233), (57, 29239), (59, 29275), (63, 29314), (65, 29323), (67, 29356), (68, 29395), (70, 29440), (74, 29491), (78, 29542), (79, 29551), (82, 29620), (86, 29695), (89, 29740), (91, 29755), (101, 29890), (105, 29944), (106, 29965), (107, 29998), (110, 30043), (113, 30097), (115, 30124), (117, 30181), (121, 30202), (123, 30244), (124, 30283), (128, 30343), (146, 30583), (147, 30616), (148, 30619), (150, 30652), (151, 30658), (152, 30721),

Gene: Craff_31 Start: 28764, Stop: 31019, Start Num: 5

Candidate Starts for Craff_31:

(Start: 5 @28764 has 314 MA's), (13, 28860), (19, 28938), (20, 28965), (27, 29064), (37, 29223), (45, 29403), (48, 29427), (56, 29517), (57, 29523), (59, 29559), (63, 29598), (65, 29607), (67, 29640), (68, 29679), (70, 29724), (74, 29775), (78, 29826), (79, 29835), (82, 29904), (86, 29979), (89, 30024), (91, 30039), (101, 30174), (105, 30228), (106, 30249), (107, 30282), (110, 30327), (113, 30381), (115, 30408), (117, 30465), (121, 30486), (123, 30528), (124, 30567), (128, 30627), (146, 30867), (147, 30900), (148, 30903), (150, 30936), (151, 30942), (152, 31005),

Gene: Crownjwl_31 Start: 28533, Stop: 30791, Start Num: 5

Candidate Starts for Crownjwl_31:

(Start: 5 @28533 has 314 MA's), (13, 28629), (19, 28707), (20, 28734), (27, 28836), (37, 28995), (45, 29175), (48, 29199), (50, 29211), (57, 29295), (59, 29331), (63, 29370), (65, 29379), (67, 29412), (68,

29451), (70, 29496), (74, 29547), (78, 29598), (79, 29607), (82, 29676), (86, 29751), (89, 29796), (91, 29811), (101, 29946), (105, 30000), (106, 30021), (107, 30054), (110, 30099), (113, 30153), (117, 30237), (121, 30258), (123, 30300), (124, 30339), (128, 30399), (146, 30639), (147, 30672), (148, 30675), (150, 30708), (151, 30714), (152, 30777),

Gene: DaddyDaniels_31 Start: 28455, Stop: 30710, Start Num: 5

Candidate Starts for DaddyDaniels_31:

(Start: 5 @28455 has 314 MA's), (13, 28551), (19, 28629), (20, 28656), (27, 28755), (37, 28914), (45, 29094), (48, 29118), (57, 29214), (59, 29250), (63, 29289), (65, 29298), (67, 29331), (68, 29370), (70, 29415), (74, 29466), (78, 29517), (79, 29526), (82, 29595), (86, 29670), (89, 29715), (91, 29730), (101, 29865), (105, 29919), (106, 29940), (107, 29973), (110, 30018), (113, 30072), (115, 30099), (117, 30156), (121, 30177), (123, 30219), (124, 30258), (128, 30318), (146, 30558), (148, 30594), (150, 30627), (152, 30696),

Gene: Daffy_31 Start: 28486, Stop: 30741, Start Num: 5

Candidate Starts for Daffy_31:

(Start: 5 @28486 has 314 MA's), (13, 28582), (19, 28660), (20, 28687), (27, 28786), (37, 28945), (45, 29125), (48, 29149), (56, 29239), (57, 29245), (59, 29281), (63, 29320), (65, 29329), (67, 29362), (68, 29401), (70, 29446), (74, 29497), (78, 29548), (79, 29557), (82, 29626), (86, 29701), (89, 29746), (91, 29761), (101, 29896), (105, 29950), (106, 29971), (107, 30004), (110, 30049), (113, 30103), (115, 30130), (117, 30187), (121, 30208), (123, 30250), (124, 30289), (128, 30349), (146, 30589), (148, 30625), (150, 30658), (152, 30727),

Gene: Daisy_31 Start: 28640, Stop: 30865, Start Num: 4

Candidate Starts for Daisy_31:

(Start: 4 @28640 has 49 MA's), (Start: 7 @28655 has 1 MA's), (10, 28700), (14, 28757), (21, 28835), (26, 28904), (27, 28916), (30, 28958), (32, 28994), (33, 29021), (34, 29033), (36, 29060), (39, 29150), (43, 29222), (52, 29306), (60, 29414), (61, 29435), (68, 29528), (69, 29543), (77, 29672), (82, 29753), (86, 29828), (88, 29870), (89, 29876), (93, 29912), (101, 30026), (102, 30038), (105, 30080), (106, 30101), (109, 30155), (110, 30179), (112, 30215), (117, 30311), (119, 30320), (123, 30374), (129, 30482), (130, 30509), (134, 30551), (138, 30623), (146, 30713), (148, 30749),

Gene: Daka_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Daka_31:

(Start: 5 @28760 has 314 MA's), (13, 28856), (19, 28934), (20, 28961), (27, 29060), (37, 29219), (45, 29399), (48, 29423), (57, 29519), (59, 29555), (63, 29594), (65, 29603), (67, 29636), (68, 29675), (70, 29720), (74, 29771), (78, 29822), (79, 29831), (82, 29900), (86, 29975), (89, 30020), (91, 30035), (101, 30170), (105, 30224), (106, 30245), (107, 30278), (110, 30323), (113, 30377), (115, 30404), (117, 30461), (121, 30482), (123, 30524), (124, 30563), (128, 30623), (146, 30863), (148, 30899), (150, 30932), (152, 31001),

Gene: Dati_31 Start: 28480, Stop: 30735, Start Num: 5

Candidate Starts for Dati_31:

(Start: 5 @28480 has 314 MA's), (13, 28576), (19, 28654), (20, 28681), (27, 28780), (37, 28939), (45, 29119), (48, 29143), (56, 29233), (57, 29239), (59, 29275), (63, 29314), (65, 29323), (67, 29356), (68, 29395), (70, 29440), (74, 29491), (78, 29542), (79, 29551), (82, 29620), (86, 29695), (89, 29740), (91, 29755), (101, 29890), (105, 29944), (106, 29965), (107, 29998), (110, 30043), (113, 30097), (115, 30124), (117, 30181), (121, 30202), (123, 30244), (124, 30283), (128, 30343), (146, 30583), (147, 30616), (148, 30619), (150, 30652), (151, 30658), (152, 30721),

Gene: Deenasa_31 Start: 29376, Stop: 31604, Start Num: 4

Candidate Starts for Deenasa_31:

(Start: 4 @29376 has 49 MA's), (Start: 7 @29391 has 1 MA's), (10, 29436), (14, 29493), (21, 29571), (26, 29640), (27, 29652), (30, 29694), (32, 29730), (33, 29757), (34, 29769), (36, 29796), (39, 29886), (43, 29958), (52, 30042), (60, 30150), (61, 30171), (68, 30264), (69, 30279), (77, 30408), (82, 30489), (86, 30564), (88, 30606), (89, 30612), (93, 30648), (101, 30762), (102, 30774), (105, 30816), (106, 30837), (109, 30891), (110, 30915), (112, 30951), (117, 31050), (119, 31059), (123, 31113), (129, 31221), (130, 31248), (134, 31290), (138, 31362), (146, 31452), (148, 31488),

Gene: DelRivs_30 Start: 28481, Stop: 30736, Start Num: 5

Candidate Starts for DelRivs_30:

(Start: 5 @28481 has 314 MA's), (13, 28577), (19, 28655), (20, 28682), (27, 28781), (37, 28940), (45, 29120), (48, 29144), (56, 29234), (57, 29240), (59, 29276), (63, 29315), (65, 29324), (67, 29357), (68, 29396), (70, 29441), (74, 29492), (78, 29543), (79, 29552), (82, 29621), (86, 29696), (89, 29741), (91, 29756), (101, 29891), (105, 29945), (106, 29966), (107, 29999), (110, 30044), (113, 30098), (115, 30125), (117, 30182), (121, 30203), (123, 30245), (124, 30284), (128, 30344), (146, 30584), (147, 30617), (148, 30620), (150, 30653), (151, 30659), (152, 30722),

Gene: Derpp_30 Start: 28325, Stop: 30580, Start Num: 5

Candidate Starts for Derpp_30:

(Start: 5 @28325 has 314 MA's), (13, 28421), (19, 28499), (20, 28526), (27, 28625), (37, 28784), (45, 28964), (48, 28988), (57, 29084), (59, 29120), (63, 29159), (65, 29168), (67, 29201), (68, 29240), (70, 29285), (74, 29336), (79, 29396), (82, 29465), (86, 29540), (89, 29585), (91, 29600), (101, 29735), (105, 29789), (106, 29810), (107, 29843), (110, 29888), (113, 29942), (115, 29969), (117, 30026), (121, 30047), (123, 30089), (124, 30128), (128, 30188), (146, 30428), (147, 30461), (148, 30464), (150, 30497), (152, 30566),

Gene: Devonte_31 Start: 28604, Stop: 30829, Start Num: 4

Candidate Starts for Devonte_31:

(Start: 4 @28604 has 49 MA's), (Start: 7 @28619 has 1 MA's), (10, 28664), (14, 28721), (21, 28799), (26, 28868), (27, 28880), (30, 28922), (32, 28958), (33, 28985), (34, 28997), (36, 29024), (39, 29114), (43, 29186), (52, 29270), (60, 29378), (61, 29399), (68, 29492), (69, 29507), (77, 29636), (82, 29717), (86, 29792), (88, 29834), (89, 29840), (93, 29876), (101, 29990), (102, 30002), (105, 30044), (106, 30065), (109, 30119), (110, 30143), (112, 30179), (117, 30275), (119, 30284), (123, 30338), (129, 30446), (130, 30473), (134, 30515), (138, 30587), (146, 30677), (148, 30713),

Gene: Dice_30 Start: 28460, Stop: 30715, Start Num: 5

Candidate Starts for Dice_30:

(Start: 5 @28460 has 314 MA's), (13, 28556), (19, 28634), (20, 28661), (27, 28760), (37, 28919), (45, 29099), (48, 29123), (56, 29213), (57, 29219), (59, 29255), (63, 29294), (65, 29303), (67, 29336), (68, 29375), (70, 29420), (74, 29471), (78, 29522), (79, 29531), (82, 29600), (86, 29675), (89, 29720), (91, 29735), (101, 29870), (105, 29924), (106, 29945), (107, 29978), (110, 30023), (113, 30077), (115, 30104), (117, 30161), (121, 30182), (123, 30224), (124, 30263), (128, 30323), (146, 30563), (148, 30599), (150, 30632), (152, 30701),

Gene: DigitDog_30 Start: 28569, Stop: 30836, Start Num: 5

Candidate Starts for DigitDog_30:

(Start: 5 @28569 has 314 MA's), (8, 28617), (12, 28647), (13, 28665), (15, 28701), (17, 28722), (18, 28740), (24, 28803), (28, 28908), (37, 29031), (38, 29037), (41, 29136), (49, 29238), (53, 29292), (63, 29412), (66, 29427), (67, 29454), (78, 29640), (81, 29676), (82, 29718), (86, 29793), (89, 29844), (93, 29880), (96, 29943), (99, 29967), (101, 29994), (109, 30123), (110, 30147), (117, 30282), (119, 30291), (121, 30303), (123, 30345), (124, 30384), (125, 30387), (127, 30441), (129, 30453), (131, 30483), (133, 30501), (137, 30567), (146, 30684), (152, 30822),

Gene: Dingo_31 Start: 28743, Stop: 30998, Start Num: 5

Candidate Starts for Dingo_31:

(Start: 5 @28743 has 314 MA's), (13, 28839), (19, 28917), (20, 28944), (27, 29043), (37, 29202), (45, 29382), (48, 29406), (57, 29502), (59, 29538), (63, 29577), (65, 29586), (67, 29619), (68, 29658), (70, 29703), (74, 29754), (78, 29805), (79, 29814), (82, 29883), (86, 29958), (89, 30003), (91, 30018), (101, 30153), (105, 30207), (106, 30228), (107, 30261), (110, 30306), (113, 30360), (115, 30387), (117, 30444), (121, 30465), (123, 30507), (124, 30546), (128, 30606), (132, 30657), (146, 30846), (148, 30882), (150, 30915), (152, 30984),

Gene: Dione_30 Start: 28465, Stop: 30720, Start Num: 5

Candidate Starts for Dione_30:

(Start: 5 @28465 has 314 MA's), (13, 28561), (19, 28639), (20, 28666), (27, 28765), (37, 28924), (45, 29104), (48, 29128), (56, 29218), (57, 29224), (59, 29260), (63, 29299), (65, 29308), (67, 29341), (68, 29380), (70, 29425), (74, 29476), (78, 29527), (79, 29536), (82, 29605), (86, 29680), (89, 29725), (91, 29740), (101, 29875), (105, 29929), (106, 29950), (107, 29983), (110, 30028), (113, 30082), (115, 30109), (117, 30166), (121, 30187), (123, 30229), (124, 30268), (128, 30328), (146, 30568), (148, 30604), (150, 30637), (152, 30706),

Gene: DirtJuice_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for DirtJuice_31:

(Start: 5 @28749 has 314 MA's), (13, 28845), (19, 28923), (20, 28950), (27, 29049), (37, 29208), (45, 29388), (48, 29412), (57, 29508), (59, 29544), (63, 29583), (65, 29592), (67, 29625), (68, 29664), (70, 29709), (74, 29760), (78, 29811), (79, 29820), (82, 29889), (86, 29964), (89, 30009), (91, 30024), (101, 30159), (105, 30213), (106, 30234), (107, 30267), (110, 30312), (113, 30366), (115, 30393), (117, 30450), (121, 30471), (123, 30513), (124, 30552), (128, 30612), (146, 30852), (148, 30888), (150, 30921), (152, 30990),

Gene: Doddsville_31 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Doddsville_31:

(Start: 5 @28479 has 314 MA's), (13, 28575), (19, 28653), (20, 28680), (27, 28779), (37, 28938), (45, 29118), (48, 29142), (57, 29238), (59, 29274), (63, 29313), (65, 29322), (67, 29355), (68, 29394), (70, 29439), (74, 29490), (79, 29550), (82, 29619), (86, 29694), (89, 29739), (91, 29754), (101, 29889), (105, 29943), (106, 29964), (107, 29997), (110, 30042), (113, 30096), (115, 30123), (117, 30180), (121, 30201), (123, 30243), (124, 30282), (128, 30342), (146, 30582), (147, 30615), (148, 30618), (150, 30651), (152, 30720),

Gene: DoesntMatter_31 Start: 28745, Stop: 31000, Start Num: 5

Candidate Starts for DoesntMatter_31:

(Start: 5 @28745 has 314 MA's), (13, 28841), (19, 28919), (20, 28946), (27, 29045), (37, 29204), (45, 29384), (48, 29408), (56, 29498), (57, 29504), (59, 29540), (63, 29579), (65, 29588), (67, 29621), (68, 29660), (70, 29705), (74, 29756), (78, 29807), (79, 29816), (82, 29885), (86, 29960), (89, 30005), (91, 30020), (101, 30155), (105, 30209), (106, 30230), (107, 30263), (110, 30308), (113, 30362), (115, 30389), (117, 30446), (121, 30467), (123, 30509), (124, 30548), (128, 30608), (146, 30848), (147, 30881), (148, 30884), (150, 30917), (151, 30923), (152, 30986),

Gene: DolOn_32 Start: 28989, Stop: 31244, Start Num: 5

Candidate Starts for DolOn_32:

(Start: 5 @28989 has 314 MA's), (13, 29085), (19, 29163), (20, 29190), (27, 29289), (37, 29448), (45, 29628), (48, 29652), (56, 29742), (57, 29748), (59, 29784), (63, 29823), (65, 29832), (67, 29865), (68, 29904), (70, 29949), (74, 30000), (78, 30051), (79, 30060), (82, 30129), (86, 30204), (89, 30249), (91, 30264), (101, 30399), (105, 30453), (106, 30474), (107, 30507), (110, 30552), (113, 30606), (115, 30633), (117, 30690), (121, 30711), (123, 30753), (124, 30792), (128, 30852), (146, 31092), (147, 31125), (148, 31128), (150, 31161), (151, 31167), (152, 31230),

Gene: DonSanchon_30 Start: 28459, Stop: 30714, Start Num: 5

Candidate Starts for DonSanchon_30:

(Start: 5 @28459 has 314 MA's), (13, 28555), (19, 28633), (20, 28660), (27, 28759), (37, 28918), (45, 29098), (48, 29122), (56, 29212), (57, 29218), (59, 29254), (63, 29293), (65, 29302), (67, 29335), (68, 29374), (70, 29419), (74, 29470), (78, 29521), (79, 29530), (82, 29599), (86, 29674), (89, 29719), (91, 29734), (101, 29869), (105, 29923), (106, 29944), (107, 29977), (110, 30022), (113, 30076), (115, 30103), (117, 30160), (121, 30181), (123, 30223), (124, 30262), (128, 30322), (146, 30562), (148, 30598), (150, 30631), (152, 30700),

Gene: Donny_30 Start: 28983, Stop: 31259, Start Num: 5

Candidate Starts for Donny_30:

(Start: 5 @28983 has 314 MA's), (6, 28989), (8, 29031), (11, 29052), (12, 29061), (15, 29115), (17, 29136), (18, 29154), (19, 29157), (22, 29199), (23, 29205), (24, 29217), (27, 29286), (28, 29322), (37, 29445), (41, 29550), (53, 29706), (55, 29733), (58, 29784), (63, 29835), (66, 29850), (78, 30063), (81, 30099), (82, 30141), (86, 30216), (96, 30366), (99, 30390), (101, 30417), (106, 30492), (109, 30546), (117, 30705), (119, 30714), (121, 30726), (124, 30807), (125, 30810), (129, 30876), (133, 30924), (137, 30990), (146, 31107),

Gene: DuchessDung_29 Start: 27616, Stop: 29871, Start Num: 5

Candidate Starts for DuchessDung_29:

(Start: 5 @27616 has 314 MA's), (13, 27712), (19, 27790), (20, 27817), (27, 27916), (37, 28075), (45, 28255), (48, 28279), (57, 28375), (59, 28411), (63, 28450), (65, 28459), (67, 28492), (68, 28531), (70, 28576), (74, 28627), (78, 28678), (79, 28687), (82, 28756), (86, 28831), (89, 28876), (91, 28891), (101, 29026), (105, 29080), (106, 29101), (107, 29134), (110, 29179), (113, 29233), (115, 29260), (117, 29317), (121, 29338), (123, 29380), (124, 29419), (128, 29479), (146, 29719), (147, 29752), (148, 29755), (150, 29788), (151, 29794), (152, 29857),

Gene: Duggie_30 Start: 28481, Stop: 30736, Start Num: 5

Candidate Starts for Duggie_30:

(Start: 5 @28481 has 314 MA's), (13, 28577), (19, 28655), (20, 28682), (27, 28781), (37, 28940), (45, 29120), (48, 29144), (57, 29240), (59, 29276), (63, 29315), (65, 29324), (67, 29357), (68, 29396), (70, 29441), (74, 29492), (78, 29543), (79, 29552), (82, 29621), (86, 29696), (89, 29741), (91, 29756), (101, 29891), (105, 29945), (106, 29966), (107, 29999), (110, 30044), (113, 30098), (115, 30125), (117, 30182), (121, 30203), (123, 30245), (124, 30284), (128, 30344), (146, 30584), (148, 30620), (150, 30653), (152, 30722),

Gene: Durga_31 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Durga_31:

(Start: 5 @28778 has 314 MA's), (13, 28874), (19, 28952), (20, 28979), (27, 29078), (37, 29237), (45, 29417), (48, 29441), (57, 29537), (59, 29573), (63, 29612), (65, 29621), (67, 29654), (68, 29693), (70, 29738), (74, 29789), (78, 29840), (79, 29849), (82, 29918), (86, 29993), (89, 30038), (91, 30053), (101, 30188), (105, 30242), (106, 30263), (107, 30296), (110, 30341), (113, 30395), (115, 30422), (117, 30479), (121, 30500), (123, 30542), (124, 30581), (128, 30641), (146, 30881), (148, 30917), (150, 30950), (152, 31019),

Gene: EastView9101_29 Start: 28633, Stop: 30909, Start Num: 5

Candidate Starts for EastView9101_29:

(Start: 5 @28633 has 314 MA's), (6, 28639), (8, 28681), (11, 28702), (12, 28711), (15, 28765), (17, 28786), (18, 28804), (19, 28807), (22, 28849), (23, 28855), (24, 28867), (27, 28936), (28, 28972), (37, 29095), (41, 29200), (53, 29356), (55, 29383), (58, 29434), (63, 29485), (66, 29500), (78, 29713), (81, 29749), (82, 29791), (86, 29866), (96, 30016), (99, 30040), (101, 30067), (106, 30142), (109, 30196), (117, 30355), (119, 30364), (121, 30376), (124, 30457), (125, 30460), (129, 30526), (133, 30574), (137, 30640), (146, 30757),

Gene: ElvisPhasley_31 Start: 28797, Stop: 31055, Start Num: 5

Candidate Starts for ElvisPhasley_31:

(Start: 5 @28797 has 314 MA's), (13, 28893), (19, 28971), (20, 28998), (27, 29100), (37, 29259), (45, 29439), (48, 29463), (50, 29475), (57, 29559), (59, 29595), (63, 29634), (65, 29643), (67, 29676), (68, 29715), (70, 29760), (74, 29811), (78, 29862), (79, 29871), (82, 29940), (86, 30015), (89, 30060), (91, 30075), (101, 30210), (105, 30264), (106, 30285), (107, 30318), (110, 30363), (113, 30417), (115, 30444), (117, 30501), (121, 30522), (123, 30564), (124, 30603), (128, 30663), (146, 30903), (148, 30939), (150, 30972), (152, 31041),

Gene: Emiris_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Emiris_31:

(Start: 5 @28749 has 314 MA's), (13, 28845), (19, 28923), (20, 28950), (27, 29049), (37, 29208), (45, 29388), (48, 29412), (56, 29502), (57, 29508), (59, 29544), (63, 29583), (65, 29592), (67, 29625), (68, 29664), (70, 29709), (74, 29760), (78, 29811), (79, 29820), (82, 29889), (86, 29964), (89, 30009), (91, 30024), (101, 30159), (105, 30213), (106, 30234), (107, 30267), (110, 30312), (113, 30366), (115, 30393), (117, 30450), (121, 30471), (123, 30513), (124, 30552), (128, 30612), (146, 30852), (148, 30888), (150, 30921), (152, 30990),

Gene: EmpTee_31 Start: 28759, Stop: 31014, Start Num: 5

Candidate Starts for EmpTee_31:

(Start: 5 @28759 has 314 MA's), (13, 28855), (19, 28933), (20, 28960), (27, 29059), (37, 29218), (45, 29398), (48, 29422), (56, 29512), (57, 29518), (59, 29554), (63, 29593), (65, 29602), (67, 29635), (68, 29674), (70, 29719), (74, 29770), (78, 29821), (79, 29830), (82, 29899), (86, 29974), (89, 30019), (91, 30034), (101, 30169), (105, 30223), (106, 30244), (107, 30277), (110, 30322), (113, 30376), (117, 30460), (121, 30481), (123, 30523), (124, 30562), (128, 30622), (146, 30862), (147, 30895), (148, 30898), (150, 30931), (152, 31000),

Gene: Epah_27 Start: 27941, Stop: 30238, Start Num: 5

Candidate Starts for Epah_27:

(Start: 5 @27941 has 314 MA's), (13, 28040), (20, 28145), (24, 28181), (27, 28244), (31, 28325), (35, 28391), (37, 28403), (41, 28508), (42, 28547), (46, 28598), (48, 28607), (54, 28688), (55, 28691), (59, 28754), (64, 28796), (66, 28808), (71, 28931), (72, 28955), (77, 29018), (80, 29048), (81, 29057), (83, 29129), (84, 29150), (86, 29186), (87, 29207), (93, 29273), (94, 29285), (96, 29336), (97, 29339), (98, 29357), (100, 29381), (103, 29408), (105, 29441), (106, 29462), (107, 29495), (110, 29540), (118, 29681), (119, 29684), (121, 29696), (125, 29780), (134, 29915), (135, 29939), (139, 30002), (142, 30032), (143, 30038), (146, 30086), (147, 30119), (148, 30122), (152, 30224), (153, 30227),

Gene: Eremos_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Eremos_31:

(Start: 5 @28758 has 314 MA's), (13, 28854), (19, 28932), (20, 28959), (27, 29058), (37, 29217), (45, 29397), (48, 29421), (56, 29511), (57, 29517), (59, 29553), (63, 29592), (67, 29634), (68, 29673), (70, 29718), (74, 29769), (78, 29820), (79, 29829), (82, 29898), (86, 29973), (89, 30018), (91, 30033), (101, 30168), (105, 30222), (106, 30243), (107, 30276), (110, 30321), (113, 30375), (117, 30459), (121, 30480), (123, 30522), (124, 30561), (128, 30621), (146, 30861), (147, 30894), (148, 30897), (150, 30930), (151, 30936), (152, 30999),

Gene: Etaye_31 Start: 28748, Stop: 31003, Start Num: 5

Candidate Starts for Etaye_31:

(Start: 5 @28748 has 314 MA's), (13, 28844), (19, 28922), (20, 28949), (27, 29048), (37, 29207), (45, 29387), (48, 29411), (57, 29507), (59, 29543), (63, 29582), (65, 29591), (67, 29624), (68, 29663), (70, 29708), (74, 29759), (78, 29810), (79, 29819), (82, 29888), (86, 29963), (89, 30008), (91, 30023), (101, 30158), (105, 30212), (106, 30233), (107, 30266), (110, 30311), (113, 30365), (115, 30392), (117,

30449), (121, 30470), (123, 30512), (124, 30551), (128, 30611), (146, 30851), (148, 30887), (150, 30920), (152, 30989),

Gene: Eugenia_31 Start: 28768, Stop: 31023, Start Num: 5

Candidate Starts for Eugenia_31:

(Start: 5 @28768 has 314 MA's), (13, 28864), (19, 28942), (20, 28969), (27, 29068), (37, 29227), (45, 29407), (48, 29431), (56, 29521), (57, 29527), (59, 29563), (63, 29602), (65, 29611), (67, 29644), (68, 29683), (70, 29728), (74, 29779), (78, 29830), (79, 29839), (82, 29908), (86, 29983), (89, 30028), (91, 30043), (101, 30178), (105, 30232), (106, 30253), (107, 30286), (110, 30331), (113, 30385), (115, 30412), (117, 30469), (121, 30490), (123, 30532), (124, 30571), (128, 30631), (146, 30871), (148, 30907), (150, 30940), (152, 31009),

Gene: Fanaw_27 Start: 28636, Stop: 30933, Start Num: 5

Candidate Starts for Fanaw_27:

(Start: 1 @27949 has 1 MA's), (2, 28096), (Start: 5 @28636 has 314 MA's), (13, 28735), (14, 28753), (27, 28939), (31, 29020), (35, 29086), (41, 29203), (42, 29242), (46, 29293), (54, 29383), (55, 29386), (59, 29449), (62, 29485), (64, 29491), (66, 29503), (71, 29626), (72, 29650), (77, 29713), (81, 29752), (83, 29824), (84, 29845), (86, 29881), (87, 29902), (93, 29968), (94, 29980), (96, 30031), (97, 30034), (98, 30052), (100, 30076), (103, 30103), (105, 30136), (106, 30157), (107, 30190), (110, 30235), (118, 30376), (119, 30379), (121, 30391), (125, 30475), (133, 30589), (134, 30610), (135, 30634), (139, 30697), (142, 30727), (143, 30733), (146, 30781), (147, 30814), (148, 30817), (152, 30919), (153, 30922),

Gene: Fang_31 Start: 28772, Stop: 31027, Start Num: 5

Candidate Starts for Fang_31:

(Start: 5 @28772 has 314 MA's), (13, 28868), (19, 28946), (20, 28973), (27, 29072), (37, 29231), (45, 29411), (48, 29435), (56, 29525), (57, 29531), (59, 29567), (63, 29606), (65, 29615), (67, 29648), (68, 29687), (70, 29732), (74, 29783), (78, 29834), (79, 29843), (82, 29912), (86, 29987), (89, 30032), (91, 30047), (101, 30182), (105, 30236), (106, 30257), (107, 30290), (110, 30335), (113, 30389), (115, 30416), (117, 30473), (121, 30494), (123, 30536), (124, 30575), (128, 30635), (146, 30875), (148, 30911), (150, 30944), (152, 31013),

Gene: Flake_32 Start: 28808, Stop: 31069, Start Num: 5

Candidate Starts for Flake_32:

(Start: 5 @28808 has 314 MA's), (13, 28904), (19, 28982), (20, 29009), (25, 29084), (27, 29114), (37, 29273), (45, 29453), (48, 29477), (57, 29573), (59, 29609), (63, 29648), (65, 29657), (67, 29690), (68, 29729), (70, 29774), (74, 29825), (79, 29885), (82, 29954), (86, 30029), (89, 30074), (91, 30089), (101, 30224), (105, 30278), (106, 30299), (107, 30332), (110, 30377), (113, 30431), (115, 30458), (117, 30515), (121, 30536), (123, 30578), (124, 30617), (128, 30677), (146, 30917), (148, 30953), (150, 30986), (152, 31055),

Gene: FleetyMac_30 Start: 28764, Stop: 31022, Start Num: 5

Candidate Starts for FleetyMac_30:

(Start: 5 @28764 has 314 MA's), (13, 28860), (19, 28938), (20, 28965), (27, 29067), (37, 29226), (45, 29406), (48, 29430), (50, 29442), (57, 29526), (59, 29562), (63, 29601), (65, 29610), (67, 29643), (68, 29682), (70, 29727), (74, 29778), (78, 29829), (79, 29838), (82, 29907), (86, 29982), (89, 30027), (91, 30042), (101, 30177), (105, 30231), (106, 30252), (107, 30285), (110, 30330), (113, 30384), (115, 30411), (117, 30468), (121, 30489), (123, 30531), (124, 30570), (128, 30630), (146, 30870), (148, 30906), (150, 30939), (152, 31008),

Gene: FluffyNinja_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for FluffyNinja_31:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29065), (37, 29224), (45, 29404), (48, 29428), (56, 29518), (57, 29524), (59, 29560), (63, 29599), (65, 29608), (67, 29641), (68, 29680), (70, 29725), (74, 29776), (78, 29827), (79, 29836), (82, 29905), (86, 29980), (89, 30025), (91, 30040), (101, 30175), (105, 30229), (106, 30250), (107, 30283), (110, 30328), (113, 30382), (117, 30466), (121, 30487), (123, 30529), (124, 30568), (128, 30628), (146, 30868), (147, 30901), (148, 30904), (150, 30937), (151, 30943), (152, 31006),

Gene: Fortunato_28 Start: 28277, Stop: 31261, Start Num: 1

Candidate Starts for Fortunato_28:

(Start: 1 @28277 has 1 MA's), (2, 28424), (Start: 5 @28964 has 314 MA's), (13, 29063), (14, 29081), (20, 29168), (24, 29204), (27, 29267), (31, 29348), (35, 29414), (41, 29531), (42, 29570), (46, 29621), (48, 29630), (53, 29687), (54, 29711), (55, 29714), (59, 29777), (64, 29819), (66, 29831), (71, 29954), (72, 29978), (77, 30041), (83, 30152), (84, 30173), (86, 30209), (87, 30230), (93, 30296), (94, 30308), (96, 30359), (97, 30362), (98, 30380), (100, 30404), (103, 30431), (105, 30464), (106, 30485), (107, 30518), (110, 30563), (118, 30704), (119, 30707), (121, 30719), (125, 30803), (133, 30917), (134, 30938), (135, 30962), (139, 31025), (142, 31055), (143, 31061), (146, 31109), (147, 31142), (148, 31145), (152, 31247), (153, 31250),

Gene: Fozzie_30 Start: 28774, Stop: 31035, Start Num: 5

Candidate Starts for Fozzie_30:

(Start: 5 @28774 has 314 MA's), (13, 28870), (19, 28948), (20, 28975), (25, 29050), (27, 29080), (37, 29239), (45, 29419), (48, 29443), (57, 29539), (59, 29575), (63, 29614), (65, 29623), (67, 29656), (68, 29695), (70, 29740), (74, 29791), (79, 29851), (82, 29920), (86, 29995), (89, 30040), (91, 30055), (101, 30190), (105, 30244), (106, 30265), (107, 30298), (110, 30343), (113, 30397), (115, 30424), (117, 30481), (121, 30502), (123, 30544), (124, 30583), (128, 30643), (146, 30883), (148, 30919), (150, 30952), (152, 31021),

Gene: Frankicide_31 Start: 28777, Stop: 31032, Start Num: 5

Candidate Starts for Frankicide_31:

(Start: 5 @28777 has 314 MA's), (13, 28873), (19, 28951), (20, 28978), (27, 29077), (37, 29236), (45, 29416), (48, 29440), (57, 29536), (59, 29572), (63, 29611), (65, 29620), (67, 29653), (68, 29692), (70, 29737), (74, 29788), (78, 29839), (79, 29848), (82, 29917), (86, 29992), (89, 30037), (91, 30052), (101, 30187), (105, 30241), (106, 30262), (107, 30295), (110, 30340), (113, 30394), (115, 30421), (117, 30478), (121, 30499), (123, 30541), (124, 30580), (128, 30640), (146, 30880), (147, 30913), (148, 30916), (150, 30949), (151, 30955), (152, 31018),

Gene: Frederick_28 Start: 28973, Stop: 31270, Start Num: 5

Candidate Starts for Frederick_28:

(Start: 5 @28973 has 314 MA's), (13, 29072), (14, 29090), (24, 29213), (27, 29276), (31, 29357), (35, 29423), (41, 29540), (42, 29579), (46, 29630), (48, 29639), (53, 29696), (54, 29720), (55, 29723), (59, 29786), (64, 29828), (66, 29840), (70, 29951), (72, 29987), (77, 30050), (83, 30161), (84, 30182), (86, 30218), (87, 30239), (93, 30305), (94, 30317), (96, 30368), (97, 30371), (98, 30389), (100, 30413), (103, 30440), (105, 30473), (106, 30494), (107, 30527), (110, 30572), (118, 30713), (119, 30716), (120, 30719), (121, 30728), (125, 30812), (133, 30926), (134, 30947), (135, 30971), (139, 31034), (142, 31064), (143, 31070), (146, 31118), (147, 31151), (148, 31154), (152, 31256), (153, 31259),

Gene: FremontTroll_31 Start: 28462, Stop: 30717, Start Num: 5

Candidate Starts for FremontTroll_31:

(Start: 5 @28462 has 314 MA's), (13, 28558), (19, 28636), (20, 28663), (27, 28762), (37, 28921), (45, 29101), (48, 29125), (56, 29215), (57, 29221), (59, 29257), (63, 29296), (65, 29305), (67, 29338), (68, 29377), (70, 29422), (74, 29473), (78, 29524), (79, 29533), (82, 29602), (86, 29677), (89, 29722), (91, 29737), (101, 29872), (105, 29926), (106, 29947), (107, 29980), (110, 30025), (113, 30079), (115, 30106), (117, 30163), (121, 30184), (123, 30226), (124, 30265), (128, 30325), (146, 30565), (147,

30598), (148, 30601), (150, 30634), (151, 30640), (152, 30703),

Gene: Freya_30 Start: 28456, Stop: 30711, Start Num: 5

Candidate Starts for Freya_30:

(Start: 5 @28456 has 314 MA's), (13, 28552), (19, 28630), (20, 28657), (27, 28756), (37, 28915), (45, 29095), (48, 29119), (56, 29209), (57, 29215), (59, 29251), (63, 29290), (65, 29299), (67, 29332), (68, 29371), (70, 29416), (74, 29467), (78, 29518), (79, 29527), (82, 29596), (89, 29716), (91, 29731), (101, 29866), (105, 29920), (106, 29941), (107, 29974), (110, 30019), (113, 30073), (115, 30100), (117, 30157), (121, 30178), (123, 30220), (124, 30259), (128, 30319), (146, 30559), (147, 30592), (148, 30595), (150, 30628), (151, 30634), (152, 30697),

Gene: FriarPreacher_31 Start: 28783, Stop: 31038, Start Num: 5

Candidate Starts for FriarPreacher_31:

(Start: 5 @28783 has 314 MA's), (13, 28879), (19, 28957), (20, 28984), (27, 29083), (37, 29242), (45, 29422), (48, 29446), (56, 29536), (57, 29542), (59, 29578), (63, 29617), (65, 29626), (67, 29659), (68, 29698), (70, 29743), (74, 29794), (78, 29845), (79, 29854), (82, 29923), (86, 29998), (89, 30043), (91, 30058), (101, 30193), (105, 30247), (106, 30268), (107, 30301), (110, 30346), (113, 30400), (115, 30427), (117, 30484), (121, 30505), (123, 30547), (124, 30586), (128, 30646), (146, 30886), (147, 30919), (148, 30922), (150, 30955), (151, 30961), (152, 31024),

Gene: Fringe_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Fringe_31:

(Start: 5 @28747 has 314 MA's), (13, 28843), (19, 28921), (20, 28948), (27, 29047), (37, 29206), (45, 29386), (48, 29410), (56, 29500), (57, 29506), (59, 29542), (63, 29581), (65, 29590), (67, 29623), (68, 29662), (70, 29707), (74, 29758), (78, 29809), (79, 29818), (82, 29887), (86, 29962), (89, 30007), (91, 30022), (101, 30157), (105, 30211), (106, 30232), (107, 30265), (110, 30310), (113, 30364), (115, 30391), (117, 30448), (121, 30469), (123, 30511), (124, 30550), (128, 30610), (146, 30850), (147, 30883), (148, 30886), (150, 30919), (151, 30925), (152, 30988),

Gene: FugateOSU_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for FugateOSU_30:

(Start: 5 @28461 has 314 MA's), (13, 28557), (19, 28635), (20, 28662), (27, 28761), (37, 28920), (45, 29100), (48, 29124), (56, 29214), (57, 29220), (59, 29256), (63, 29295), (65, 29304), (67, 29337), (68, 29376), (70, 29421), (74, 29472), (78, 29523), (79, 29532), (82, 29601), (86, 29676), (89, 29721), (91, 29736), (101, 29871), (105, 29925), (106, 29946), (107, 29979), (110, 30024), (113, 30078), (115, 30105), (117, 30162), (121, 30183), (123, 30225), (124, 30264), (128, 30324), (146, 30564), (147, 30597), (148, 30600), (150, 30633), (151, 30639), (152, 30702),

Gene: Gadget_32 Start: 28620, Stop: 30848, Start Num: 4

Candidate Starts for Gadget_32:

(Start: 4 @28620 has 49 MA's), (Start: 7 @28635 has 1 MA's), (10, 28680), (14, 28737), (21, 28815), (26, 28884), (27, 28896), (30, 28938), (32, 28974), (33, 29001), (34, 29013), (36, 29040), (39, 29130), (43, 29202), (52, 29286), (60, 29394), (61, 29415), (68, 29508), (69, 29523), (77, 29652), (82, 29733), (86, 29808), (88, 29850), (89, 29856), (93, 29892), (101, 30006), (102, 30018), (105, 30060), (106, 30081), (109, 30135), (110, 30159), (117, 30294), (119, 30303), (123, 30357), (129, 30465), (130, 30492), (134, 30534), (138, 30606), (146, 30696), (148, 30732),

Gene: Gareth_30 Start: 28463, Stop: 30718, Start Num: 5

Candidate Starts for Gareth_30:

(Start: 5 @28463 has 314 MA's), (13, 28559), (19, 28637), (20, 28664), (27, 28763), (37, 28922), (45, 29102), (48, 29126), (56, 29216), (57, 29222), (59, 29258), (63, 29297), (65, 29306), (67, 29339), (68, 29378), (70, 29423), (74, 29474), (78, 29525), (79, 29534), (82, 29603), (86, 29678), (89, 29723), (91, 29738), (101, 29873), (105, 29927), (106, 29948), (107, 29981), (110, 30026), (113, 30080), (115,

30107), (117, 30164), (121, 30185), (123, 30227), (124, 30266), (128, 30326), (146, 30566), (147, 30599), (148, 30602), (150, 30635), (151, 30641), (152, 30704),

Gene: GeneCoco_31 Start: 28773, Stop: 31028, Start Num: 5

Candidate Starts for GeneCoco_31:

(Start: 5 @28773 has 314 MA's), (13, 28869), (19, 28947), (20, 28974), (27, 29073), (37, 29232), (45, 29412), (48, 29436), (57, 29532), (59, 29568), (63, 29607), (65, 29616), (67, 29649), (68, 29688), (70, 29733), (74, 29784), (78, 29835), (79, 29844), (82, 29913), (86, 29988), (89, 30033), (91, 30048), (101, 30183), (105, 30237), (106, 30258), (107, 30291), (110, 30336), (113, 30390), (115, 30417), (117, 30474), (121, 30495), (123, 30537), (124, 30576), (128, 30636), (146, 30876), (148, 30912), (150, 30945), (152, 31014),

Gene: Gervas_31 Start: 28594, Stop: 30819, Start Num: 4

Candidate Starts for Gervas_31:

(Start: 4 @28594 has 49 MA's), (10, 28654), (14, 28711), (26, 28858), (27, 28870), (30, 28912), (32, 28948), (33, 28975), (34, 28987), (36, 29014), (39, 29104), (43, 29176), (52, 29260), (60, 29368), (61, 29389), (68, 29482), (69, 29497), (77, 29626), (82, 29707), (86, 29782), (88, 29824), (89, 29830), (93, 29866), (101, 29980), (102, 29992), (105, 30034), (106, 30055), (109, 30109), (110, 30133), (112, 30169), (117, 30265), (119, 30274), (123, 30328), (129, 30436), (130, 30463), (134, 30505), (138, 30577), (146, 30667), (148, 30703),

Gene: GinPorsche_27 Start: 27941, Stop: 30238, Start Num: 5

Candidate Starts for GinPorsche_27:

(Start: 5 @27941 has 314 MA's), (13, 28040), (20, 28145), (24, 28181), (27, 28244), (31, 28325), (35, 28391), (37, 28403), (41, 28508), (42, 28547), (46, 28598), (48, 28607), (54, 28688), (55, 28691), (59, 28754), (64, 28796), (66, 28808), (71, 28931), (72, 28955), (77, 29018), (80, 29048), (81, 29057), (83, 29129), (84, 29150), (86, 29186), (87, 29207), (93, 29273), (94, 29285), (96, 29336), (97, 29339), (98, 29357), (100, 29381), (103, 29408), (105, 29441), (106, 29462), (107, 29495), (110, 29540), (118, 29681), (119, 29684), (121, 29696), (125, 29780), (134, 29915), (135, 29939), (139, 30002), (142, 30032), (143, 30038), (146, 30086), (147, 30119), (148, 30122), (152, 30224), (153, 30227),

Gene: Giraffe_31 Start: 28467, Stop: 30722, Start Num: 5

Candidate Starts for Giraffe_31:

(Start: 5 @28467 has 314 MA's), (13, 28563), (19, 28641), (20, 28668), (27, 28767), (37, 28926), (45, 29106), (48, 29130), (56, 29220), (57, 29226), (59, 29262), (63, 29301), (65, 29310), (67, 29343), (68, 29382), (70, 29427), (74, 29478), (78, 29529), (79, 29538), (82, 29607), (86, 29682), (89, 29727), (91, 29742), (101, 29877), (105, 29931), (106, 29952), (107, 29985), (110, 30030), (113, 30084), (115, 30111), (117, 30168), (121, 30189), (123, 30231), (124, 30270), (128, 30330), (146, 30570), (147, 30603), (148, 30606), (150, 30639), (151, 30645), (152, 30708),

Gene: GlenHope_32 Start: 28606, Stop: 30831, Start Num: 4

Candidate Starts for GlenHope_32:

(Start: 4 @28606 has 49 MA's), (Start: 7 @28621 has 1 MA's), (10, 28666), (14, 28723), (21, 28801), (26, 28870), (27, 28882), (30, 28924), (32, 28960), (33, 28987), (34, 28999), (36, 29026), (39, 29116), (43, 29188), (52, 29272), (60, 29380), (61, 29401), (68, 29494), (69, 29509), (77, 29638), (82, 29719), (86, 29794), (88, 29836), (89, 29842), (93, 29878), (96, 29941), (101, 29992), (102, 30004), (105, 30046), (106, 30067), (109, 30121), (110, 30145), (112, 30181), (117, 30277), (119, 30286), (123, 30340), (129, 30448), (130, 30475), (134, 30517), (138, 30589), (146, 30679), (148, 30715),

Gene: Glubnar_32 Start: 28606, Stop: 30831, Start Num: 4

Candidate Starts for Glubnar_32:

(Start: 4 @28606 has 49 MA's), (Start: 7 @28621 has 1 MA's), (10, 28666), (14, 28723), (21, 28801), (26, 28870), (27, 28882), (30, 28924), (32, 28960), (33, 28987), (34, 28999), (36, 29026), (39, 29116),

(43, 29188), (52, 29272), (60, 29380), (61, 29401), (68, 29494), (69, 29509), (77, 29638), (82, 29719), (86, 29794), (88, 29836), (89, 29842), (93, 29878), (96, 29941), (101, 29992), (102, 30004), (105, 30046), (106, 30067), (109, 30121), (110, 30145), (112, 30181), (117, 30277), (119, 30286), (123, 30340), (129, 30448), (130, 30475), (134, 30517), (138, 30589), (146, 30679), (148, 30715),

Gene: Gophee_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Gophee_31:

(Start: 5 @28749 has 314 MA's), (13, 28845), (19, 28923), (20, 28950), (27, 29049), (37, 29208), (45, 29388), (48, 29412), (56, 29502), (57, 29508), (59, 29544), (63, 29583), (65, 29592), (67, 29625), (68, 29664), (70, 29709), (74, 29760), (78, 29811), (79, 29820), (82, 29889), (86, 29964), (89, 30009), (91, 30024), (101, 30159), (105, 30213), (106, 30234), (107, 30267), (110, 30312), (113, 30366), (115, 30393), (117, 30450), (121, 30471), (123, 30513), (124, 30552), (128, 30612), (146, 30852), (147, 30885), (148, 30888), (150, 30921), (151, 30927), (152, 30990),

Gene: Grand2040_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Grand2040_30:

(Start: 5 @28482 has 314 MA's), (13, 28578), (19, 28656), (20, 28683), (27, 28782), (37, 28941), (45, 29121), (48, 29145), (56, 29235), (57, 29241), (59, 29277), (63, 29316), (65, 29325), (67, 29358), (68, 29397), (70, 29442), (74, 29493), (78, 29544), (79, 29553), (82, 29622), (86, 29697), (89, 29742), (91, 29757), (101, 29892), (105, 29946), (106, 29967), (107, 30000), (110, 30045), (113, 30099), (115, 30126), (117, 30183), (121, 30204), (123, 30246), (124, 30285), (128, 30345), (146, 30585), (148, 30621), (150, 30654), (152, 30723),

Gene: Gwennie1_31 Start: 28828, Stop: 31086, Start Num: 5

Candidate Starts for Gwennie1_31:

(Start: 5 @28828 has 314 MA's), (13, 28924), (19, 29002), (20, 29029), (25, 29104), (27, 29131), (37, 29290), (45, 29470), (48, 29494), (56, 29584), (57, 29590), (59, 29626), (63, 29665), (65, 29674), (67, 29707), (68, 29746), (70, 29791), (74, 29842), (78, 29893), (79, 29902), (82, 29971), (86, 30046), (89, 30091), (91, 30106), (101, 30241), (105, 30295), (106, 30316), (107, 30349), (110, 30394), (113, 30448), (115, 30475), (117, 30532), (121, 30553), (123, 30595), (124, 30634), (128, 30694), (146, 30934), (148, 30970), (150, 31003), (152, 31072),

Gene: Gwilliam_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Gwilliam_31:

(Start: 5 @28761 has 314 MA's), (13, 28857), (19, 28935), (20, 28962), (27, 29061), (37, 29220), (45, 29400), (48, 29424), (56, 29514), (57, 29520), (59, 29556), (63, 29595), (65, 29604), (67, 29637), (68, 29676), (70, 29721), (74, 29772), (78, 29823), (79, 29832), (82, 29901), (86, 29976), (89, 30021), (91, 30036), (101, 30171), (105, 30225), (106, 30246), (107, 30279), (110, 30324), (113, 30378), (115, 30405), (117, 30462), (121, 30483), (123, 30525), (124, 30564), (128, 30624), (146, 30864), (147, 30897), (148, 30900), (150, 30933), (151, 30939), (152, 31002),

Gene: Gyarad_0031 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for Gyarad_0031:

(Start: 5 @28763 has 314 MA's), (13, 28859), (19, 28937), (20, 28964), (27, 29063), (37, 29222), (45, 29402), (48, 29426), (56, 29516), (57, 29522), (59, 29558), (63, 29597), (65, 29606), (67, 29639), (68, 29678), (70, 29723), (74, 29774), (78, 29825), (79, 29834), (82, 29903), (86, 29978), (89, 30023), (91, 30038), (101, 30173), (105, 30227), (106, 30248), (107, 30281), (110, 30326), (113, 30380), (115, 30407), (117, 30464), (121, 30485), (123, 30527), (124, 30566), (128, 30626), (146, 30866), (147, 30899), (148, 30902), (150, 30935), (151, 30941), (152, 31004),

Gene: HSavage_31 Start: 28768, Stop: 31023, Start Num: 5

Candidate Starts for HSavage_31:

(Start: 5 @28768 has 314 MA's), (13, 28864), (19, 28942), (20, 28969), (27, 29068), (37, 29227), (45, 29407), (48, 29431), (56, 29521), (57, 29527), (59, 29563), (63, 29602), (65, 29611), (67, 29644), (68, 29683), (70, 29728), (74, 29779), (78, 29830), (79, 29839), (82, 29908), (86, 29983), (89, 30028), (91, 30043), (101, 30178), (105, 30232), (106, 30253), (107, 30286), (110, 30331), (113, 30385), (115, 30412), (117, 30469), (121, 30490), (123, 30532), (124, 30571), (128, 30631), (146, 30871), (147, 30904), (148, 30907), (150, 30940), (151, 30946), (152, 31009),

Gene: Haimas_31 Start: 28759, Stop: 31014, Start Num: 5

Candidate Starts for Haimas_31:

(Start: 5 @28759 has 314 MA's), (13, 28855), (19, 28933), (20, 28960), (27, 29059), (37, 29218), (45, 29398), (48, 29422), (56, 29512), (57, 29518), (59, 29554), (63, 29593), (65, 29602), (67, 29635), (68, 29674), (70, 29719), (74, 29770), (78, 29821), (79, 29830), (82, 29899), (86, 29974), (89, 30019), (91, 30034), (101, 30169), (105, 30223), (106, 30244), (107, 30277), (110, 30322), (113, 30376), (115, 30403), (117, 30460), (121, 30481), (123, 30523), (124, 30562), (128, 30622), (146, 30862), (147, 30895), (148, 30898), (150, 30931), (151, 30937), (152, 31000),

Gene: Haleema_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Haleema_30:

(Start: 5 @28482 has 314 MA's), (13, 28578), (19, 28656), (20, 28683), (27, 28782), (37, 28941), (45, 29121), (48, 29145), (56, 29235), (57, 29241), (59, 29277), (63, 29316), (65, 29325), (67, 29358), (68, 29397), (70, 29442), (74, 29493), (78, 29544), (79, 29553), (82, 29622), (86, 29697), (89, 29742), (91, 29757), (101, 29892), (105, 29946), (106, 29967), (107, 30000), (110, 30045), (113, 30099), (115, 30126), (117, 30183), (121, 30204), (123, 30246), (124, 30285), (128, 30345), (146, 30585), (147, 30618), (148, 30621), (150, 30654), (151, 30660), (152, 30723),

Gene: Halfpint_30 Start: 28429, Stop: 30654, Start Num: 4

Candidate Starts for Halfpint_30:

(Start: 4 @28429 has 49 MA's), (Start: 7 @28444 has 1 MA's), (10, 28489), (14, 28546), (21, 28624), (26, 28693), (27, 28705), (30, 28747), (32, 28783), (33, 28810), (34, 28822), (36, 28849), (39, 28939), (40, 28963), (43, 29011), (52, 29095), (60, 29203), (61, 29224), (68, 29317), (69, 29332), (77, 29461), (82, 29542), (86, 29617), (88, 29659), (89, 29665), (96, 29764), (101, 29815), (102, 29827), (105, 29869), (106, 29890), (109, 29944), (110, 29968), (112, 30004), (117, 30100), (119, 30109), (123, 30163), (129, 30271), (130, 30298), (134, 30340), (138, 30412), (146, 30502), (148, 30538),

Gene: Hally898_27 Start: 27953, Stop: 30250, Start Num: 5

Candidate Starts for Hally898_27:

(Start: 5 @27953 has 314 MA's), (13, 28052), (20, 28157), (24, 28193), (27, 28256), (31, 28337), (35, 28403), (37, 28415), (41, 28520), (42, 28559), (46, 28610), (48, 28619), (54, 28700), (55, 28703), (59, 28766), (64, 28808), (66, 28820), (71, 28943), (72, 28967), (77, 29030), (80, 29060), (81, 29069), (83, 29141), (84, 29162), (86, 29198), (87, 29219), (93, 29285), (94, 29297), (96, 29348), (97, 29351), (98, 29369), (100, 29393), (103, 29420), (105, 29453), (106, 29474), (107, 29507), (110, 29552), (118, 29693), (119, 29696), (121, 29708), (125, 29792), (134, 29927), (135, 29951), (139, 30014), (142, 30044), (143, 30050), (146, 30098), (147, 30131), (148, 30134), (152, 30236), (153, 30239),

Gene: Hamish_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for Hamish_31:

(Start: 5 @28751 has 314 MA's), (13, 28847), (19, 28925), (20, 28952), (27, 29051), (37, 29210), (45, 29390), (48, 29414), (56, 29504), (57, 29510), (59, 29546), (63, 29585), (65, 29594), (67, 29627), (68, 29666), (70, 29711), (74, 29762), (78, 29813), (79, 29822), (82, 29891), (86, 29966), (89, 30011), (91, 30026), (101, 30161), (105, 30215), (106, 30236), (107, 30269), (110, 30314), (113, 30368), (115, 30395), (117, 30452), (121, 30473), (123, 30515), (124, 30554), (128, 30614), (146, 30854), (147, 30887), (148, 30890), (150, 30923), (151, 30929), (152, 30992),

Gene: Hangman_28 Start: 28965, Stop: 31262, Start Num: 5

Candidate Starts for Hangman_28:

(Start: 1 @28278 has 1 MA's), (2, 28425), (Start: 5 @28965 has 314 MA's), (13, 29064), (14, 29082), (24, 29205), (27, 29268), (31, 29349), (35, 29415), (41, 29532), (42, 29571), (46, 29622), (48, 29631), (53, 29688), (54, 29712), (55, 29715), (59, 29778), (64, 29820), (66, 29832), (71, 29955), (72, 29979), (77, 30042), (83, 30153), (84, 30174), (86, 30210), (87, 30231), (93, 30297), (94, 30309), (95, 30351), (96, 30360), (97, 30363), (98, 30381), (99, 30384), (100, 30405), (103, 30432), (105, 30465), (106, 30486), (107, 30519), (110, 30564), (118, 30705), (119, 30708), (121, 30720), (125, 30804), (133, 30918), (134, 30939), (135, 30963), (139, 31026), (142, 31056), (146, 31110), (147, 31143), (148, 31146), (152, 31248), (153, 31251),

Gene: Happabalu_31 Start: 28480, Stop: 30735, Start Num: 5

Candidate Starts for Happabalu_31:

(Start: 5 @28480 has 314 MA's), (13, 28576), (19, 28654), (20, 28681), (27, 28780), (37, 28939), (45, 29119), (48, 29143), (56, 29233), (57, 29239), (59, 29275), (63, 29314), (65, 29323), (67, 29356), (68, 29395), (70, 29440), (74, 29491), (78, 29542), (79, 29551), (82, 29620), (86, 29695), (89, 29740), (91, 29755), (101, 29890), (105, 29944), (106, 29965), (107, 29998), (110, 30043), (113, 30097), (115, 30124), (117, 30181), (121, 30202), (123, 30244), (124, 30283), (128, 30343), (146, 30583), (148, 30619), (150, 30652), (152, 30721),

Gene: Hartsy_31 Start: 28802, Stop: 31057, Start Num: 5

Candidate Starts for Hartsy_31:

(Start: 5 @28802 has 314 MA's), (13, 28898), (19, 28976), (20, 29003), (27, 29102), (37, 29261), (45, 29441), (48, 29465), (56, 29555), (57, 29561), (59, 29597), (63, 29636), (65, 29645), (67, 29678), (68, 29717), (70, 29762), (74, 29813), (78, 29864), (79, 29873), (82, 29942), (86, 30017), (89, 30062), (91, 30077), (101, 30212), (105, 30266), (106, 30287), (107, 30320), (110, 30365), (113, 30419), (115, 30446), (117, 30503), (121, 30524), (123, 30566), (124, 30605), (128, 30665), (146, 30905), (147, 30938), (148, 30941), (150, 30974), (151, 30980), (152, 31043),

Gene: Harvey_31 Start: 28777, Stop: 31032, Start Num: 5

Candidate Starts for Harvey_31:

(Start: 5 @28777 has 314 MA's), (13, 28873), (19, 28951), (20, 28978), (27, 29077), (37, 29236), (45, 29416), (48, 29440), (56, 29530), (57, 29536), (59, 29572), (63, 29611), (65, 29620), (67, 29653), (68, 29692), (70, 29737), (74, 29788), (78, 29839), (79, 29848), (82, 29917), (86, 29992), (89, 30037), (91, 30052), (101, 30187), (105, 30241), (106, 30262), (107, 30295), (110, 30340), (113, 30394), (115, 30421), (117, 30478), (121, 30499), (123, 30541), (124, 30580), (128, 30640), (146, 30880), (147, 30913), (148, 30916), (150, 30949), (151, 30955), (152, 31018),

Gene: HarveySr_31 Start: 28593, Stop: 30821, Start Num: 4

Candidate Starts for HarveySr_31:

(Start: 4 @28593 has 49 MA's), (Start: 7 @28608 has 1 MA's), (10, 28653), (14, 28710), (21, 28788), (26, 28857), (27, 28869), (30, 28911), (32, 28947), (33, 28974), (34, 28986), (36, 29013), (39, 29103), (43, 29175), (52, 29259), (60, 29367), (61, 29388), (68, 29481), (69, 29496), (77, 29625), (82, 29706), (86, 29781), (88, 29823), (89, 29829), (93, 29865), (101, 29979), (102, 29991), (105, 30033), (106, 30054), (109, 30108), (110, 30132), (112, 30168), (117, 30267), (119, 30276), (123, 30330), (129, 30438), (130, 30465), (134, 30507), (138, 30579), (146, 30669), (148, 30705),

Gene: Heath_27 Start: 28566, Stop: 30863, Start Num: 5

Candidate Starts for Heath_27:

(Start: 1 @27879 has 1 MA's), (2, 28026), (3, 28437), (Start: 5 @28566 has 314 MA's), (13, 28665), (20, 28770), (24, 28806), (27, 28869), (31, 28950), (35, 29016), (41, 29133), (42, 29172), (46, 29223), (48, 29232), (53, 29289), (54, 29313), (55, 29316), (59, 29379), (64, 29421), (66, 29433), (71, 29556), (72, 29580), (77, 29643), (83, 29754), (84, 29775), (86, 29811), (87, 29832), (93, 29898), (94, 29910),

(96, 29961), (97, 29964), (98, 29982), (100, 30006), (103, 30033), (105, 30066), (106, 30087), (107, 30120), (110, 30165), (118, 30306), (119, 30309), (121, 30321), (125, 30405), (133, 30519), (134, 30540), (135, 30564), (139, 30627), (142, 30657), (143, 30663), (146, 30711), (147, 30744), (148, 30747), (152, 30849), (153, 30852),

Gene: Heathcliff_31 Start: 28575, Stop: 30803, Start Num: 4

Candidate Starts for Heathcliff_31:

(Start: 4 @28575 has 49 MA's), (Start: 7 @28590 has 1 MA's), (10, 28635), (14, 28692), (21, 28770), (26, 28839), (27, 28851), (30, 28893), (32, 28929), (33, 28956), (34, 28968), (36, 28995), (39, 29085), (43, 29157), (52, 29241), (60, 29349), (61, 29370), (68, 29463), (69, 29478), (77, 29607), (82, 29688), (86, 29763), (88, 29805), (89, 29811), (101, 29961), (102, 29973), (105, 30015), (106, 30036), (109, 30090), (110, 30114), (117, 30249), (119, 30258), (123, 30312), (129, 30420), (130, 30447), (134, 30489), (138, 30561), (146, 30651), (148, 30687),

Gene: Held_31 Start: 28466, Stop: 30721, Start Num: 5

Candidate Starts for Held_31:

(Start: 5 @28466 has 314 MA's), (13, 28562), (19, 28640), (20, 28667), (27, 28766), (37, 28925), (45, 29105), (48, 29129), (56, 29219), (57, 29225), (59, 29261), (63, 29300), (65, 29309), (67, 29342), (68, 29381), (70, 29426), (74, 29477), (78, 29528), (79, 29537), (82, 29606), (86, 29681), (89, 29726), (91, 29741), (101, 29876), (105, 29930), (106, 29951), (107, 29984), (110, 30029), (113, 30083), (115, 30110), (117, 30167), (121, 30188), (123, 30230), (124, 30269), (128, 30329), (146, 30569), (148, 30605), (150, 30638), (152, 30707),

Gene: HenryJackson_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for HenryJackson_30:

(Start: 5 @28482 has 314 MA's), (13, 28578), (19, 28656), (20, 28683), (27, 28782), (37, 28941), (45, 29121), (48, 29145), (56, 29235), (57, 29241), (59, 29277), (63, 29316), (65, 29325), (67, 29358), (68, 29397), (70, 29442), (74, 29493), (78, 29544), (79, 29553), (82, 29622), (86, 29697), (89, 29742), (91, 29757), (101, 29892), (105, 29946), (106, 29967), (107, 30000), (110, 30045), (113, 30099), (115, 30126), (117, 30183), (121, 30204), (123, 30246), (124, 30285), (128, 30345), (146, 30585), (147, 30618), (148, 30621), (150, 30654), (151, 30660), (152, 30723),

Gene: Hertubise_31 Start: 28773, Stop: 31028, Start Num: 5

Candidate Starts for Hertubise_31:

(Start: 5 @28773 has 314 MA's), (13, 28869), (19, 28947), (20, 28974), (27, 29073), (37, 29232), (45, 29412), (48, 29436), (56, 29526), (57, 29532), (59, 29568), (63, 29607), (65, 29616), (67, 29649), (68, 29688), (70, 29733), (74, 29784), (78, 29835), (79, 29844), (82, 29913), (86, 29988), (89, 30033), (91, 30048), (101, 30183), (105, 30237), (106, 30258), (107, 30291), (110, 30336), (113, 30390), (117, 30474), (121, 30495), (123, 30537), (124, 30576), (128, 30636), (146, 30876), (147, 30909), (148, 30912), (150, 30945), (151, 30951), (152, 31014),

Gene: Hetaeria_31 Start: 28775, Stop: 31030, Start Num: 5

Candidate Starts for Hetaeria_31:

(Start: 5 @28775 has 314 MA's), (13, 28871), (19, 28949), (20, 28976), (27, 29075), (37, 29234), (45, 29414), (48, 29438), (56, 29528), (57, 29534), (59, 29570), (63, 29609), (65, 29618), (67, 29651), (68, 29690), (70, 29735), (74, 29786), (78, 29837), (79, 29846), (82, 29915), (86, 29990), (89, 30035), (91, 30050), (101, 30185), (105, 30239), (106, 30260), (107, 30293), (110, 30338), (113, 30392), (117, 30476), (121, 30497), (123, 30539), (124, 30578), (128, 30638), (146, 30878), (147, 30911), (148, 30914), (150, 30947), (151, 30953), (152, 31016),

Gene: HighStump_30 Start: 28465, Stop: 30720, Start Num: 5

Candidate Starts for HighStump_30:

(Start: 5 @28465 has 314 MA's), (13, 28561), (19, 28639), (20, 28666), (27, 28765), (37, 28924), (45, 29104), (48, 29128), (56, 29218), (57, 29224), (59, 29260), (63, 29299), (65, 29308), (67, 29341), (68, 29380), (70, 29425), (74, 29476), (78, 29527), (79, 29536), (82, 29605), (86, 29680), (89, 29725), (91, 29740), (101, 29875), (105, 29929), (106, 29950), (107, 29983), (110, 30028), (113, 30082), (115, 30109), (117, 30166), (121, 30187), (123, 30229), (124, 30268), (128, 30328), (146, 30568), (147, 30601), (148, 30604), (150, 30637), (151, 30643), (152, 30706),

Gene: Hocus_30 Start: 28474, Stop: 30729, Start Num: 5

Candidate Starts for Hocus_30:

(Start: 5 @28474 has 314 MA's), (13, 28570), (19, 28648), (20, 28675), (27, 28774), (37, 28933), (45, 29113), (48, 29137), (56, 29227), (57, 29233), (59, 29269), (63, 29308), (65, 29317), (67, 29350), (68, 29389), (70, 29434), (74, 29485), (78, 29536), (79, 29545), (82, 29614), (86, 29689), (89, 29734), (91, 29749), (101, 29884), (105, 29938), (106, 29959), (107, 29992), (110, 30037), (113, 30091), (115, 30118), (117, 30175), (121, 30196), (123, 30238), (124, 30277), (128, 30337), (146, 30577), (147, 30610), (148, 30613), (150, 30646), (151, 30652), (152, 30715),

Gene: HogWash_30 Start: 28768, Stop: 31026, Start Num: 5

Candidate Starts for HogWash_30:

(Start: 5 @28768 has 314 MA's), (13, 28864), (19, 28942), (20, 28969), (27, 29071), (37, 29230), (45, 29410), (48, 29434), (56, 29524), (57, 29530), (59, 29566), (63, 29605), (65, 29614), (67, 29647), (68, 29686), (70, 29731), (74, 29782), (78, 29833), (79, 29842), (82, 29911), (86, 29986), (89, 30031), (91, 30046), (101, 30181), (105, 30235), (106, 30256), (107, 30289), (110, 30334), (113, 30388), (115, 30415), (117, 30472), (121, 30493), (123, 30535), (124, 30574), (128, 30634), (146, 30874), (147, 30907), (148, 30910), (150, 30943), (151, 30949), (152, 31012),

Gene: Horchata_31 Start: 28753, Stop: 31008, Start Num: 5

Candidate Starts for Horchata_31:

(Start: 5 @28753 has 314 MA's), (13, 28849), (19, 28927), (20, 28954), (27, 29053), (37, 29212), (45, 29392), (48, 29416), (57, 29512), (59, 29548), (63, 29587), (65, 29596), (67, 29629), (68, 29668), (70, 29713), (74, 29764), (78, 29815), (79, 29824), (82, 29893), (86, 29968), (89, 30013), (91, 30028), (101, 30163), (105, 30217), (106, 30238), (107, 30271), (110, 30316), (113, 30370), (115, 30397), (117, 30454), (121, 30475), (123, 30517), (124, 30556), (128, 30616), (146, 30856), (148, 30892), (150, 30925), (152, 30994),

Gene: Hydro_28 Start: 28982, Stop: 31279, Start Num: 5

Candidate Starts for Hydro_28:

(Start: 1 @28295 has 1 MA's), (2, 28442), (Start: 5 @28982 has 314 MA's), (13, 29081), (14, 29099), (24, 29222), (27, 29285), (31, 29366), (35, 29432), (41, 29549), (42, 29588), (48, 29648), (53, 29705), (54, 29729), (55, 29732), (59, 29795), (64, 29837), (71, 29972), (72, 29996), (77, 30059), (81, 30098), (83, 30170), (84, 30191), (86, 30227), (87, 30248), (93, 30314), (94, 30326), (96, 30377), (97, 30380), (98, 30398), (100, 30422), (103, 30449), (105, 30482), (106, 30503), (107, 30536), (110, 30581), (118, 30722), (119, 30725), (121, 30737), (125, 30821), (133, 30935), (134, 30956), (135, 30980), (139, 31043), (142, 31073), (143, 31079), (146, 31127), (147, 31160), (148, 31163), (149, 31187), (152, 31265), (153, 31268),

Gene: ImtiyazSitla_30 Start: 28315, Stop: 30570, Start Num: 5

Candidate Starts for ImtiyazSitla_30:

(Start: 5 @28315 has 314 MA's), (13, 28411), (19, 28489), (20, 28516), (27, 28615), (37, 28774), (45, 28954), (48, 28978), (57, 29074), (59, 29110), (63, 29149), (65, 29158), (67, 29191), (68, 29230), (70, 29275), (74, 29326), (78, 29377), (79, 29386), (82, 29455), (86, 29530), (89, 29575), (91, 29590), (101, 29725), (105, 29779), (106, 29800), (107, 29833), (110, 29878), (113, 29932), (115, 29959), (117, 30016), (121, 30037), (123, 30079), (124, 30118), (128, 30178), (146, 30418), (148, 30454), (150, 30487), (152, 30556),

Gene: Inchworm_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for Inchworm_31:

(Start: 5 @28751 has 314 MA's), (13, 28847), (19, 28925), (20, 28952), (27, 29051), (37, 29210), (45, 29390), (48, 29414), (56, 29504), (57, 29510), (59, 29546), (63, 29585), (65, 29594), (67, 29627), (68, 29666), (70, 29711), (74, 29762), (78, 29813), (79, 29822), (82, 29891), (86, 29966), (89, 30011), (91, 30026), (101, 30161), (105, 30215), (106, 30236), (107, 30269), (110, 30314), (113, 30368), (115, 30395), (117, 30452), (121, 30473), (123, 30515), (124, 30554), (128, 30614), (146, 30854), (148, 30890), (150, 30923), (152, 30992),

Gene: Inverness_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for Inverness_31:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29065), (37, 29224), (45, 29404), (48, 29428), (57, 29524), (59, 29560), (63, 29599), (65, 29608), (67, 29641), (68, 29680), (70, 29725), (74, 29776), (78, 29827), (79, 29836), (82, 29905), (86, 29980), (89, 30025), (91, 30040), (101, 30175), (105, 30229), (106, 30250), (107, 30283), (110, 30328), (113, 30382), (115, 30409), (117, 30466), (121, 30487), (123, 30529), (124, 30568), (128, 30628), (146, 30868), (148, 30904), (150, 30937), (152, 31006),

Gene: Iridessa_31 Start: 28464, Stop: 30722, Start Num: 5

Candidate Starts for Iridessa_31:

(Start: 5 @28464 has 314 MA's), (13, 28560), (19, 28638), (20, 28665), (27, 28767), (37, 28926), (45, 29106), (48, 29130), (56, 29220), (57, 29226), (59, 29262), (63, 29301), (65, 29310), (67, 29343), (68, 29382), (70, 29427), (74, 29478), (78, 29529), (79, 29538), (82, 29607), (86, 29682), (89, 29727), (91, 29742), (101, 29877), (105, 29931), (106, 29952), (107, 29985), (110, 30030), (113, 30084), (115, 30111), (117, 30168), (121, 30189), (123, 30231), (124, 30270), (128, 30330), (146, 30570), (147, 30603), (148, 30606), (150, 30639), (151, 30645), (152, 30708),

Gene: Iridoclysis_31 Start: 28745, Stop: 31000, Start Num: 5

Candidate Starts for Iridoclysis_31:

(Start: 5 @28745 has 314 MA's), (13, 28841), (19, 28919), (20, 28946), (27, 29045), (37, 29204), (45, 29384), (48, 29408), (56, 29498), (57, 29504), (59, 29540), (63, 29579), (65, 29588), (67, 29621), (68, 29660), (70, 29705), (74, 29756), (78, 29807), (79, 29816), (82, 29885), (86, 29960), (89, 30005), (91, 30020), (101, 30155), (105, 30209), (106, 30230), (107, 30263), (110, 30308), (113, 30362), (115, 30389), (117, 30446), (121, 30467), (123, 30509), (124, 30548), (128, 30608), (146, 30848), (147, 30881), (148, 30884), (150, 30917), (151, 30923), (152, 30986),

Gene: IsaacEli_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for IsaacEli_31:

(Start: 5 @28769 has 314 MA's), (13, 28865), (19, 28943), (20, 28970), (27, 29069), (37, 29228), (45, 29408), (48, 29432), (56, 29522), (57, 29528), (59, 29564), (63, 29603), (65, 29612), (67, 29645), (68, 29684), (70, 29729), (74, 29780), (78, 29831), (79, 29840), (82, 29909), (86, 29984), (89, 30029), (91, 30044), (101, 30179), (105, 30233), (106, 30254), (107, 30287), (110, 30332), (113, 30386), (117, 30470), (121, 30491), (123, 30533), (124, 30572), (128, 30632), (146, 30872), (147, 30905), (148, 30908), (150, 30941), (151, 30947), (152, 31010),

Gene: JAMaL_28 Start: 29152, Stop: 31449, Start Num: 5

Candidate Starts for JAMaL_28:

(Start: 5 @29152 has 314 MA's), (13, 29251), (14, 29269), (24, 29392), (27, 29455), (31, 29536), (35, 29602), (41, 29719), (42, 29758), (46, 29809), (48, 29818), (54, 29899), (55, 29902), (59, 29965), (64, 30007), (66, 30019), (71, 30142), (72, 30166), (77, 30229), (81, 30268), (83, 30340), (84, 30361), (86, 30397), (87, 30418), (93, 30484), (94, 30496), (96, 30547), (97, 30550), (98, 30568), (100, 30592), (103, 30619), (105, 30652), (106, 30673), (107, 30706), (110, 30751), (118, 30892), (119, 30895),

(121, 30907), (125, 30991), (134, 31126), (135, 31150), (139, 31213), (142, 31243), (143, 31249),
(146, 31297), (147, 31330), (148, 31333), (152, 31435), (153, 31438),

Gene: JDog_30 Start: 28478, Stop: 30736, Start Num: 5

Candidate Starts for JDog_30:

(Start: 5 @28478 has 314 MA's), (13, 28574), (19, 28652), (20, 28679), (27, 28781), (37, 28940), (45, 29120), (48, 29144), (56, 29234), (57, 29240), (59, 29276), (63, 29315), (65, 29324), (67, 29357), (68, 29396), (70, 29441), (74, 29492), (78, 29543), (79, 29552), (82, 29621), (86, 29696), (89, 29741), (91, 29756), (101, 29891), (105, 29945), (106, 29966), (107, 29999), (110, 30044), (113, 30098), (115, 30125), (117, 30182), (121, 30203), (123, 30245), (124, 30284), (128, 30344), (146, 30584), (148, 30620), (150, 30653), (152, 30722),

Gene: JacAttac_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for JacAttac_31:

(Start: 5 @28751 has 314 MA's), (13, 28847), (19, 28925), (20, 28952), (27, 29051), (37, 29210), (45, 29390), (48, 29414), (56, 29504), (57, 29510), (59, 29546), (63, 29585), (65, 29594), (67, 29627), (68, 29666), (70, 29711), (74, 29762), (78, 29813), (79, 29822), (82, 29891), (86, 29966), (89, 30011), (91, 30026), (101, 30161), (105, 30215), (106, 30236), (107, 30269), (110, 30314), (113, 30368), (117, 30452), (121, 30473), (123, 30515), (124, 30554), (128, 30614), (146, 30854), (147, 30887), (148, 30890), (150, 30923), (151, 30929), (152, 30992),

Gene: Jackstina_28 Start: 28536, Stop: 30761, Start Num: 4

Candidate Starts for Jackstina_28:

(Start: 4 @28536 has 49 MA's), (Start: 7 @28551 has 1 MA's), (10, 28596), (14, 28653), (21, 28731), (26, 28800), (27, 28812), (30, 28854), (32, 28890), (33, 28917), (34, 28929), (36, 28956), (39, 29046), (43, 29118), (52, 29202), (60, 29310), (61, 29331), (68, 29424), (69, 29439), (77, 29568), (82, 29649), (86, 29724), (88, 29766), (89, 29772), (93, 29808), (101, 29922), (102, 29934), (105, 29976), (106, 29997), (109, 30051), (110, 30075), (112, 30111), (117, 30207), (119, 30216), (123, 30270), (129, 30378), (130, 30405), (134, 30447), (138, 30519), (146, 30609), (148, 30645),

Gene: JaguarMi_28 Start: 28450, Stop: 30738, Start Num: 5

Candidate Starts for JaguarMi_28:

(Start: 5 @28450 has 314 MA's), (13, 28549), (14, 28567), (20, 28654), (24, 28690), (27, 28753), (31, 28834), (35, 28900), (41, 29017), (42, 29056), (46, 29107), (48, 29116), (53, 29173), (54, 29197), (55, 29200), (59, 29263), (72, 29464), (75, 29494), (76, 29497), (77, 29527), (83, 29638), (84, 29659), (86, 29695), (87, 29716), (93, 29782), (94, 29794), (96, 29845), (97, 29848), (100, 29890), (103, 29917), (105, 29950), (106, 29971), (107, 30004), (108, 30007), (110, 30049), (111, 30061), (117, 30184), (119, 30193), (121, 30205), (122, 30229), (123, 30247), (124, 30286), (125, 30289), (127, 30343), (129, 30355), (133, 30403), (134, 30424), (146, 30586), (147, 30619), (148, 30622), (152, 30724),

Gene: JakeO_30 Start: 28481, Stop: 30739, Start Num: 5

Candidate Starts for JakeO_30:

(Start: 5 @28481 has 314 MA's), (13, 28577), (19, 28655), (20, 28682), (27, 28784), (37, 28943), (45, 29123), (48, 29147), (50, 29159), (57, 29243), (59, 29279), (63, 29318), (65, 29327), (67, 29360), (68, 29399), (70, 29444), (74, 29495), (78, 29546), (79, 29555), (82, 29624), (86, 29699), (89, 29744), (91, 29759), (101, 29894), (105, 29948), (106, 29969), (107, 30002), (110, 30047), (113, 30101), (115, 30128), (117, 30185), (121, 30206), (123, 30248), (124, 30287), (128, 30347), (146, 30587), (148, 30623), (150, 30656), (152, 30725),

Gene: JangoPhett_31 Start: 28752, Stop: 31007, Start Num: 5

Candidate Starts for JangoPhett_31:

(Start: 5 @28752 has 314 MA's), (13, 28848), (19, 28926), (20, 28953), (27, 29052), (37, 29211), (45, 29391), (48, 29415), (56, 29505), (57, 29511), (59, 29547), (63, 29586), (65, 29595), (67, 29628), (68,

29667), (70, 29712), (74, 29763), (78, 29814), (79, 29823), (82, 29892), (86, 29967), (89, 30012), (91, 30027), (101, 30162), (105, 30216), (106, 30237), (107, 30270), (110, 30315), (113, 30369), (115, 30396), (117, 30453), (121, 30474), (123, 30516), (124, 30555), (128, 30615), (146, 30855), (147, 30888), (148, 30891), (150, 30924), (151, 30930), (152, 30993),

Gene: Jesabah_31 Start: 28484, Stop: 30739, Start Num: 5

Candidate Starts for Jesabah_31:

(Start: 5 @28484 has 314 MA's), (13, 28580), (19, 28658), (20, 28685), (27, 28784), (37, 28943), (45, 29123), (48, 29147), (56, 29237), (57, 29243), (59, 29279), (63, 29318), (65, 29327), (67, 29360), (68, 29399), (70, 29444), (74, 29495), (78, 29546), (79, 29555), (82, 29624), (86, 29699), (89, 29744), (91, 29759), (101, 29894), (105, 29948), (106, 29969), (107, 30002), (110, 30047), (113, 30101), (115, 30128), (117, 30185), (121, 30206), (123, 30248), (124, 30287), (128, 30347), (146, 30587), (147, 30620), (148, 30623), (150, 30656), (151, 30662), (152, 30725),

Gene: Jillium_30 Start: 28475, Stop: 30730, Start Num: 5

Candidate Starts for Jillium_30:

(Start: 5 @28475 has 314 MA's), (13, 28571), (19, 28649), (20, 28676), (27, 28775), (37, 28934), (45, 29114), (48, 29138), (56, 29228), (57, 29234), (59, 29270), (63, 29309), (65, 29318), (67, 29351), (68, 29390), (70, 29435), (74, 29486), (78, 29537), (79, 29546), (82, 29615), (86, 29690), (89, 29735), (91, 29750), (101, 29885), (105, 29939), (106, 29960), (107, 29993), (110, 30038), (113, 30092), (115, 30119), (117, 30176), (121, 30197), (123, 30239), (124, 30278), (128, 30338), (146, 30578), (147, 30611), (148, 30614), (150, 30647), (151, 30653), (152, 30716),

Gene: Jiminy_30 Start: 28319, Stop: 30574, Start Num: 5

Candidate Starts for Jiminy_30:

(Start: 5 @28319 has 314 MA's), (13, 28415), (19, 28493), (20, 28520), (27, 28619), (37, 28778), (45, 28958), (48, 28982), (57, 29078), (59, 29114), (63, 29153), (65, 29162), (67, 29195), (68, 29234), (70, 29279), (74, 29330), (79, 29390), (82, 29459), (86, 29534), (89, 29579), (91, 29594), (101, 29729), (105, 29783), (106, 29804), (107, 29837), (110, 29882), (113, 29936), (115, 29963), (117, 30020), (121, 30041), (123, 30083), (124, 30122), (128, 30182), (146, 30422), (147, 30455), (148, 30458), (150, 30491), (152, 30560),

Gene: Jiraiya_30 Start: 28472, Stop: 30727, Start Num: 5

Candidate Starts for Jiraiya_30:

(Start: 5 @28472 has 314 MA's), (13, 28568), (19, 28646), (20, 28673), (27, 28772), (37, 28931), (45, 29111), (48, 29135), (56, 29225), (57, 29231), (59, 29267), (63, 29306), (65, 29315), (67, 29348), (68, 29387), (70, 29432), (74, 29483), (78, 29534), (79, 29543), (82, 29612), (86, 29687), (89, 29732), (91, 29747), (101, 29882), (105, 29936), (106, 29957), (107, 29990), (110, 30035), (113, 30089), (115, 30116), (117, 30173), (121, 30194), (123, 30236), (124, 30275), (128, 30335), (146, 30575), (148, 30611), (150, 30644), (152, 30713),

Gene: JoyceMaria_28 Start: 28968, Stop: 31265, Start Num: 5

Candidate Starts for JoyceMaria_28:

(Start: 1 @28281 has 1 MA's), (2, 28428), (Start: 5 @28968 has 314 MA's), (13, 29067), (14, 29085), (24, 29208), (27, 29271), (31, 29352), (35, 29418), (41, 29535), (42, 29574), (46, 29625), (48, 29634), (53, 29691), (54, 29715), (55, 29718), (59, 29781), (64, 29823), (66, 29835), (71, 29958), (72, 29982), (77, 30045), (83, 30156), (84, 30177), (86, 30213), (87, 30234), (93, 30300), (94, 30312), (96, 30363), (97, 30366), (98, 30384), (100, 30408), (103, 30435), (105, 30468), (106, 30489), (107, 30522), (110, 30567), (118, 30708), (119, 30711), (120, 30714), (121, 30723), (125, 30807), (133, 30921), (134, 30942), (135, 30966), (139, 31029), (142, 31059), (143, 31065), (146, 31113), (147, 31146), (148, 31149), (152, 31251), (153, 31254),

Gene: KLUcky39_31 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for KLUcky39_31:

(Start: 5 @28763 has 314 MA's), (13, 28859), (19, 28937), (20, 28964), (27, 29063), (37, 29222), (45, 29402), (48, 29426), (56, 29516), (57, 29522), (59, 29558), (63, 29597), (65, 29606), (67, 29639), (68, 29678), (70, 29723), (74, 29774), (78, 29825), (79, 29834), (82, 29903), (86, 29978), (89, 30023), (91, 30038), (101, 30173), (105, 30227), (106, 30248), (107, 30281), (110, 30326), (113, 30380), (115, 30407), (117, 30464), (121, 30485), (123, 30527), (124, 30566), (128, 30626), (146, 30866), (147, 30899), (148, 30902), (150, 30935), (151, 30941), (152, 31004),

Gene: Kahve_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Kahve_30:

(Start: 5 @28479 has 314 MA's), (13, 28575), (19, 28653), (20, 28680), (27, 28779), (37, 28938), (45, 29118), (48, 29142), (56, 29232), (57, 29238), (59, 29274), (63, 29313), (65, 29322), (67, 29355), (68, 29394), (70, 29439), (74, 29490), (78, 29541), (79, 29550), (82, 29619), (86, 29694), (89, 29739), (91, 29754), (101, 29889), (105, 29943), (106, 29964), (107, 29997), (110, 30042), (113, 30096), (115, 30123), (117, 30180), (121, 30201), (123, 30243), (124, 30282), (128, 30342), (146, 30582), (147, 30615), (148, 30618), (150, 30651), (151, 30657), (152, 30720),

Gene: Kailash_31 Start: 28817, Stop: 31072, Start Num: 5

Candidate Starts for Kailash_31:

(Start: 5 @28817 has 314 MA's), (13, 28913), (19, 28991), (20, 29018), (27, 29117), (37, 29276), (45, 29456), (48, 29480), (56, 29570), (57, 29576), (59, 29612), (63, 29651), (65, 29660), (67, 29693), (68, 29732), (70, 29777), (74, 29828), (78, 29879), (79, 29888), (82, 29957), (86, 30032), (89, 30077), (91, 30092), (101, 30227), (105, 30281), (106, 30302), (107, 30335), (110, 30380), (113, 30434), (115, 30461), (117, 30518), (121, 30539), (123, 30581), (124, 30620), (128, 30680), (146, 30920), (147, 30953), (148, 30956), (150, 30989), (151, 30995), (152, 31058),

Gene: Kamiyu_31 Start: 28582, Stop: 30807, Start Num: 4

Candidate Starts for Kamiyu_31:

(Start: 4 @28582 has 49 MA's), (Start: 7 @28597 has 1 MA's), (10, 28642), (14, 28699), (21, 28777), (26, 28846), (27, 28858), (30, 28900), (32, 28936), (33, 28963), (34, 28975), (36, 29002), (39, 29092), (43, 29164), (52, 29248), (60, 29356), (61, 29377), (68, 29470), (69, 29485), (77, 29614), (82, 29695), (86, 29770), (88, 29812), (89, 29818), (96, 29917), (101, 29968), (102, 29980), (105, 30022), (106, 30043), (109, 30097), (110, 30121), (112, 30157), (117, 30253), (119, 30262), (123, 30316), (129, 30424), (130, 30451), (134, 30493), (138, 30565), (146, 30655), (148, 30691),

Gene: KarasumaRum_32 Start: 29124, Stop: 31391, Start Num: 5

Candidate Starts for KarasumaRum_32:

(Start: 5 @29124 has 314 MA's), (8, 29172), (12, 29202), (13, 29220), (15, 29256), (17, 29277), (18, 29295), (24, 29358), (28, 29463), (37, 29586), (38, 29592), (41, 29691), (49, 29793), (53, 29847), (63, 29967), (66, 29982), (67, 30009), (78, 30195), (81, 30231), (82, 30273), (86, 30348), (89, 30399), (93, 30435), (96, 30498), (99, 30522), (101, 30549), (109, 30678), (110, 30702), (117, 30837), (119, 30846), (121, 30858), (123, 30900), (124, 30939), (125, 30942), (127, 30996), (129, 31008), (131, 31038), (133, 31056), (137, 31122), (146, 31239), (152, 31377),

Gene: Katniss_31 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Katniss_31:

(Start: 5 @28778 has 314 MA's), (13, 28874), (19, 28952), (20, 28979), (27, 29078), (37, 29237), (45, 29417), (48, 29441), (56, 29531), (57, 29537), (59, 29573), (63, 29612), (65, 29621), (67, 29654), (68, 29693), (70, 29738), (74, 29789), (78, 29840), (79, 29849), (82, 29918), (86, 29993), (89, 30038), (91, 30053), (101, 30188), (105, 30242), (106, 30263), (107, 30296), (110, 30341), (113, 30395), (117, 30479), (121, 30500), (123, 30542), (124, 30581), (128, 30641), (146, 30881), (147, 30914), (148, 30917), (150, 30950), (151, 30956), (152, 31019),

Gene: Keitherie_31 Start: 28810, Stop: 31071, Start Num: 5

Candidate Starts for Keitherie_31:

(Start: 5 @28810 has 314 MA's), (13, 28906), (19, 28984), (20, 29011), (25, 29086), (27, 29116), (37, 29275), (45, 29455), (48, 29479), (57, 29575), (59, 29611), (63, 29650), (65, 29659), (67, 29692), (68, 29731), (70, 29776), (74, 29827), (79, 29887), (82, 29956), (86, 30031), (89, 30076), (91, 30091), (101, 30226), (105, 30280), (106, 30301), (107, 30334), (110, 30379), (113, 30433), (115, 30460), (117, 30517), (121, 30538), (123, 30580), (124, 30619), (128, 30679), (146, 30919), (148, 30955), (150, 30988), (152, 31057),

Gene: Khan1_31 Start: 28499, Stop: 30754, Start Num: 5

Candidate Starts for Khan1_31:

(Start: 5 @28499 has 314 MA's), (13, 28595), (19, 28673), (20, 28700), (27, 28799), (37, 28958), (45, 29138), (48, 29162), (57, 29258), (59, 29294), (63, 29333), (65, 29342), (67, 29375), (68, 29414), (70, 29459), (74, 29510), (78, 29561), (79, 29570), (82, 29639), (86, 29714), (89, 29759), (91, 29774), (101, 29909), (105, 29963), (106, 29984), (107, 30017), (110, 30062), (113, 30116), (115, 30143), (117, 30200), (121, 30221), (123, 30263), (124, 30302), (128, 30362), (146, 30602), (148, 30638), (150, 30671), (152, 30740),

Gene: Kikipoo_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Kikipoo_31:

(Start: 5 @28769 has 314 MA's), (13, 28865), (19, 28943), (20, 28970), (27, 29069), (37, 29228), (45, 29408), (48, 29432), (56, 29522), (57, 29528), (59, 29564), (63, 29603), (65, 29612), (67, 29645), (68, 29684), (70, 29729), (74, 29780), (78, 29831), (79, 29840), (82, 29909), (86, 29984), (89, 30029), (91, 30044), (101, 30179), (105, 30233), (106, 30254), (107, 30287), (110, 30332), (113, 30386), (117, 30470), (121, 30491), (123, 30533), (124, 30572), (128, 30632), (146, 30872), (147, 30905), (148, 30908), (150, 30941), (151, 30947), (152, 31010),

Gene: Kimbrough_31 Start: 28471, Stop: 30726, Start Num: 5

Candidate Starts for Kimbrough_31:

(Start: 5 @28471 has 314 MA's), (13, 28567), (19, 28645), (20, 28672), (27, 28771), (37, 28930), (45, 29110), (48, 29134), (56, 29224), (57, 29230), (59, 29266), (63, 29305), (65, 29314), (67, 29347), (68, 29386), (70, 29431), (74, 29482), (78, 29533), (79, 29542), (82, 29611), (86, 29686), (89, 29731), (91, 29746), (101, 29881), (105, 29935), (106, 29956), (107, 29989), (110, 30034), (113, 30088), (115, 30115), (117, 30172), (121, 30193), (123, 30235), (124, 30274), (128, 30334), (146, 30574), (147, 30607), (148, 30610), (150, 30643), (151, 30649), (152, 30712),

Gene: KingTut_22 Start: 24140, Stop: 26395, Start Num: 5

Candidate Starts for KingTut_22:

(Start: 5 @24140 has 314 MA's), (13, 24236), (19, 24314), (20, 24341), (27, 24440), (37, 24599), (45, 24779), (48, 24803), (57, 24899), (59, 24935), (63, 24974), (65, 24983), (67, 25016), (68, 25055), (70, 25100), (74, 25151), (78, 25202), (79, 25211), (82, 25280), (86, 25355), (89, 25400), (91, 25415), (101, 25550), (105, 25604), (106, 25625), (107, 25658), (110, 25703), (113, 25757), (115, 25784), (117, 25841), (121, 25862), (123, 25904), (124, 25943), (128, 26003), (146, 26243), (148, 26279), (150, 26312), (152, 26381),

Gene: KingVeVeVe_31 Start: 28744, Stop: 30999, Start Num: 5

Candidate Starts for KingVeVeVe_31:

(Start: 5 @28744 has 314 MA's), (13, 28840), (19, 28918), (20, 28945), (27, 29044), (37, 29203), (45, 29383), (48, 29407), (57, 29503), (59, 29539), (63, 29578), (65, 29587), (67, 29620), (68, 29659), (70, 29704), (74, 29755), (78, 29806), (79, 29815), (82, 29884), (86, 29959), (89, 30004), (91, 30019), (101, 30154), (105, 30208), (106, 30229), (107, 30262), (110, 30307), (113, 30361), (115, 30388), (117, 30445), (121, 30466), (123, 30508), (124, 30547), (128, 30607), (146, 30847), (148, 30883), (150, 30916), (152, 30985),

Gene: KlimbOn_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for KlimbOn_31:

(Start: 5 @28757 has 314 MA's), (13, 28853), (19, 28931), (20, 28958), (27, 29057), (37, 29216), (45, 29396), (48, 29420), (57, 29516), (59, 29552), (63, 29591), (65, 29600), (67, 29633), (68, 29672), (70, 29717), (74, 29768), (78, 29819), (79, 29828), (82, 29897), (86, 29972), (89, 30017), (91, 30032), (101, 30167), (105, 30221), (106, 30242), (107, 30275), (110, 30320), (113, 30374), (115, 30401), (117, 30458), (121, 30479), (123, 30521), (124, 30560), (128, 30620), (146, 30860), (148, 30896), (150, 30929), (152, 30998),

Gene: Kloppinator_31 Start: 28780, Stop: 31035, Start Num: 5

Candidate Starts for Kloppinator_31:

(Start: 5 @28780 has 314 MA's), (13, 28876), (19, 28954), (20, 28981), (27, 29080), (37, 29239), (45, 29419), (48, 29443), (56, 29533), (57, 29539), (59, 29575), (63, 29614), (65, 29623), (67, 29656), (68, 29695), (70, 29740), (74, 29791), (78, 29842), (79, 29851), (82, 29920), (86, 29995), (89, 30040), (91, 30055), (101, 30190), (105, 30244), (106, 30265), (107, 30298), (110, 30343), (113, 30397), (117, 30481), (121, 30502), (123, 30544), (124, 30583), (128, 30643), (146, 30883), (147, 30916), (148, 30919), (150, 30952), (151, 30958), (152, 31021),

Gene: Kronus_30 Start: 29196, Stop: 31421, Start Num: 4

Candidate Starts for Kronus_30:

(Start: 4 @29196 has 49 MA's), (10, 29256), (14, 29313), (26, 29460), (27, 29472), (30, 29514), (32, 29550), (33, 29577), (34, 29589), (36, 29616), (39, 29706), (43, 29778), (52, 29862), (60, 29970), (61, 29991), (68, 30084), (69, 30099), (77, 30228), (82, 30309), (86, 30384), (88, 30426), (89, 30432), (93, 30468), (101, 30582), (102, 30594), (105, 30636), (106, 30657), (109, 30711), (110, 30735), (112, 30771), (117, 30867), (119, 30876), (123, 30930), (129, 31038), (130, 31065), (134, 31107), (138, 31179), (146, 31269), (148, 31305),

Gene: Kwadwo_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for Kwadwo_30:

(Start: 5 @28461 has 314 MA's), (13, 28557), (19, 28635), (20, 28662), (27, 28761), (37, 28920), (45, 29100), (48, 29124), (56, 29214), (57, 29220), (59, 29256), (63, 29295), (65, 29304), (67, 29337), (68, 29376), (70, 29421), (74, 29472), (78, 29523), (79, 29532), (82, 29601), (86, 29676), (89, 29721), (91, 29736), (101, 29871), (105, 29925), (106, 29946), (107, 29979), (110, 30024), (113, 30078), (115, 30105), (117, 30162), (121, 30183), (123, 30225), (124, 30264), (128, 30324), (146, 30564), (147, 30597), (148, 30600), (150, 30633), (151, 30639), (152, 30702),

Gene: Kwksand96_30 Start: 28329, Stop: 30584, Start Num: 5

Candidate Starts for Kwksand96_30:

(Start: 5 @28329 has 314 MA's), (13, 28425), (19, 28503), (20, 28530), (27, 28629), (37, 28788), (45, 28968), (48, 28992), (57, 29088), (59, 29124), (63, 29163), (65, 29172), (67, 29205), (68, 29244), (70, 29289), (74, 29340), (78, 29391), (79, 29400), (82, 29469), (86, 29544), (89, 29589), (91, 29604), (101, 29739), (105, 29793), (106, 29814), (107, 29847), (110, 29892), (113, 29946), (115, 29973), (117, 30030), (121, 30051), (123, 30093), (124, 30132), (128, 30192), (146, 30432), (148, 30468), (150, 30501), (152, 30570),

Gene: Labeouficaum_30 Start: 28325, Stop: 30580, Start Num: 5

Candidate Starts for Labeouficaum_30:

(Start: 5 @28325 has 314 MA's), (13, 28421), (19, 28499), (20, 28526), (27, 28625), (37, 28784), (45, 28964), (48, 28988), (57, 29084), (59, 29120), (63, 29159), (65, 29168), (67, 29201), (68, 29240), (70, 29285), (74, 29336), (79, 29396), (82, 29465), (86, 29540), (89, 29585), (91, 29600), (101, 29735), (105, 29789), (106, 29810), (107, 29843), (110, 29888), (113, 29942), (115, 29969), (117, 30026), (121, 30047), (123, 30089), (124, 30128), (128, 30188), (146, 30428), (147, 30461), (148, 30464),

(150, 30497), (152, 30566),

Gene: Lambano_27 Start: 27953, Stop: 30250, Start Num: 5

Candidate Starts for Lambano_27:

(Start: 5 @27953 has 314 MA's), (13, 28052), (20, 28157), (24, 28193), (27, 28256), (31, 28337), (35, 28403), (37, 28415), (41, 28520), (42, 28559), (46, 28610), (48, 28619), (54, 28700), (55, 28703), (59, 28766), (64, 28808), (66, 28820), (71, 28943), (72, 28967), (77, 29030), (80, 29060), (81, 29069), (83, 29141), (84, 29162), (86, 29198), (87, 29219), (93, 29285), (94, 29297), (96, 29348), (97, 29351), (98, 29369), (100, 29393), (103, 29420), (105, 29453), (106, 29474), (107, 29507), (110, 29552), (118, 29693), (119, 29696), (121, 29708), (125, 29792), (134, 29927), (135, 29951), (139, 30014), (142, 30044), (143, 30050), (146, 30098), (147, 30131), (148, 30134), (152, 30236), (153, 30239),

Gene: Larson_32 Start: 28808, Stop: 31069, Start Num: 5

Candidate Starts for Larson_32:

(Start: 5 @28808 has 314 MA's), (13, 28904), (19, 28982), (20, 29009), (25, 29084), (27, 29114), (37, 29273), (45, 29453), (48, 29477), (57, 29573), (59, 29609), (63, 29648), (65, 29657), (67, 29690), (68, 29729), (70, 29774), (74, 29825), (79, 29885), (82, 29954), (86, 30029), (89, 30074), (91, 30089), (101, 30224), (105, 30278), (106, 30299), (107, 30332), (110, 30377), (113, 30431), (115, 30458), (117, 30515), (121, 30536), (123, 30578), (124, 30617), (128, 30677), (146, 30917), (148, 30953), (150, 30986), (152, 31055),

Gene: LasagnaCat_31 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for LasagnaCat_31:

(Start: 5 @28763 has 314 MA's), (13, 28859), (19, 28937), (20, 28964), (27, 29063), (37, 29222), (45, 29402), (48, 29426), (56, 29516), (57, 29522), (59, 29558), (63, 29597), (65, 29606), (67, 29639), (68, 29678), (70, 29723), (74, 29774), (78, 29825), (79, 29834), (82, 29903), (86, 29978), (89, 30023), (91, 30038), (101, 30173), (105, 30227), (106, 30248), (107, 30281), (110, 30326), (113, 30380), (115, 30407), (117, 30464), (121, 30485), (123, 30527), (124, 30566), (128, 30626), (146, 30866), (147, 30899), (148, 30902), (150, 30935), (151, 30941), (152, 31004),

Gene: Lasso_31 Start: 28736, Stop: 30991, Start Num: 5

Candidate Starts for Lasso_31:

(Start: 5 @28736 has 314 MA's), (13, 28832), (19, 28910), (20, 28937), (27, 29036), (37, 29195), (45, 29375), (48, 29399), (56, 29489), (57, 29495), (59, 29531), (63, 29570), (65, 29579), (67, 29612), (68, 29651), (70, 29696), (74, 29747), (78, 29798), (79, 29807), (82, 29876), (86, 29951), (89, 29996), (91, 30011), (101, 30146), (105, 30200), (106, 30221), (107, 30254), (110, 30299), (113, 30353), (115, 30380), (117, 30437), (121, 30458), (123, 30500), (124, 30539), (128, 30599), (146, 30839), (148, 30875), (150, 30908), (152, 30977),

Gene: LeeLot_31 Start: 28767, Stop: 31022, Start Num: 5

Candidate Starts for LeeLot_31:

(Start: 5 @28767 has 314 MA's), (13, 28863), (19, 28941), (20, 28968), (27, 29067), (37, 29226), (45, 29406), (48, 29430), (56, 29520), (57, 29526), (59, 29562), (63, 29601), (65, 29610), (67, 29643), (68, 29682), (70, 29727), (74, 29778), (78, 29829), (79, 29838), (82, 29907), (86, 29982), (89, 30027), (91, 30042), (101, 30177), (105, 30231), (106, 30252), (107, 30285), (110, 30330), (113, 30384), (115, 30411), (117, 30468), (121, 30489), (123, 30531), (124, 30570), (128, 30630), (146, 30870), (148, 30906), (150, 30939), (152, 31008),

Gene: Lego3393_31 Start: 28772, Stop: 31027, Start Num: 5

Candidate Starts for Lego3393_31:

(Start: 5 @28772 has 314 MA's), (13, 28868), (19, 28946), (20, 28973), (27, 29072), (37, 29231), (45, 29411), (48, 29435), (56, 29525), (57, 29531), (59, 29567), (63, 29606), (65, 29615), (67, 29648), (68, 29687), (70, 29732), (74, 29783), (78, 29834), (79, 29843), (82, 29912), (86, 29987), (89, 30032), (91,

30047), (101, 30182), (105, 30236), (106, 30257), (107, 30290), (110, 30335), (113, 30389), (115, 30416), (117, 30473), (121, 30494), (123, 30536), (124, 30575), (128, 30635), (146, 30875), (147, 30908), (148, 30911), (150, 30944), (151, 30950), (152, 31013),

Gene: Legolas_30 Start: 28477, Stop: 30732, Start Num: 5

Candidate Starts for Legolas_30:

(Start: 5 @28477 has 314 MA's), (13, 28573), (19, 28651), (20, 28678), (27, 28777), (37, 28936), (45, 29116), (48, 29140), (56, 29230), (57, 29236), (59, 29272), (63, 29311), (65, 29320), (67, 29353), (68, 29392), (70, 29437), (74, 29488), (78, 29539), (79, 29548), (82, 29617), (86, 29692), (89, 29737), (91, 29752), (101, 29887), (105, 29941), (106, 29962), (107, 29995), (110, 30040), (113, 30094), (115, 30121), (117, 30178), (121, 30199), (123, 30241), (124, 30280), (128, 30340), (146, 30580), (147, 30613), (148, 30616), (150, 30649), (151, 30655), (152, 30718),

Gene: Lehmann_31 Start: 28300, Stop: 30555, Start Num: 5

Candidate Starts for Lehmann_31:

(Start: 5 @28300 has 314 MA's), (13, 28396), (19, 28474), (20, 28501), (27, 28600), (45, 28939), (48, 28963), (56, 29053), (57, 29059), (59, 29095), (63, 29134), (67, 29176), (68, 29215), (70, 29260), (74, 29311), (78, 29362), (79, 29371), (82, 29440), (86, 29515), (89, 29560), (91, 29575), (101, 29710), (105, 29764), (106, 29785), (107, 29818), (110, 29863), (113, 29917), (117, 30001), (121, 30022), (123, 30064), (124, 30103), (128, 30163), (146, 30403), (147, 30436), (148, 30439), (150, 30472), (151, 30478), (152, 30541),

Gene: LeiMonet_31 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for LeiMonet_31:

(Start: 5 @28468 has 314 MA's), (13, 28564), (19, 28642), (20, 28669), (27, 28768), (37, 28927), (45, 29107), (48, 29131), (56, 29221), (57, 29227), (59, 29263), (63, 29302), (65, 29311), (67, 29344), (68, 29383), (70, 29428), (74, 29479), (78, 29530), (79, 29539), (82, 29608), (86, 29683), (89, 29728), (91, 29743), (101, 29878), (105, 29932), (106, 29953), (107, 29986), (110, 30031), (113, 30085), (115, 30112), (117, 30169), (121, 30190), (123, 30232), (124, 30271), (128, 30331), (146, 30571), (148, 30607), (150, 30640), (152, 30709),

Gene: LemonSlice_31 Start: 28464, Stop: 30719, Start Num: 5

Candidate Starts for LemonSlice_31:

(Start: 5 @28464 has 314 MA's), (13, 28560), (19, 28638), (20, 28665), (27, 28764), (37, 28923), (45, 29103), (48, 29127), (56, 29217), (57, 29223), (59, 29259), (63, 29298), (65, 29307), (67, 29340), (68, 29379), (70, 29424), (74, 29475), (78, 29526), (79, 29535), (82, 29604), (86, 29679), (89, 29724), (91, 29739), (101, 29874), (105, 29928), (106, 29949), (107, 29982), (110, 30027), (113, 30081), (115, 30108), (117, 30165), (121, 30186), (123, 30228), (124, 30267), (128, 30327), (146, 30567), (147, 30600), (148, 30603), (150, 30636), (151, 30642), (152, 30705),

Gene: LestyG_31 Start: 28617, Stop: 30842, Start Num: 4

Candidate Starts for LestyG_31:

(Start: 4 @28617 has 49 MA's), (Start: 7 @28632 has 1 MA's), (10, 28677), (14, 28734), (21, 28812), (26, 28881), (27, 28893), (30, 28935), (32, 28971), (33, 28998), (34, 29010), (36, 29037), (39, 29127), (43, 29199), (52, 29283), (60, 29391), (61, 29412), (68, 29505), (69, 29520), (77, 29649), (82, 29730), (86, 29805), (88, 29847), (89, 29853), (93, 29889), (101, 30003), (102, 30015), (105, 30057), (106, 30078), (109, 30132), (110, 30156), (112, 30192), (117, 30288), (119, 30297), (123, 30351), (129, 30459), (130, 30486), (134, 30528), (138, 30600), (146, 30690), (148, 30726),

Gene: LittleDigger_27 Start: 27972, Stop: 30269, Start Num: 5

Candidate Starts for LittleDigger_27:

(Start: 5 @27972 has 314 MA's), (13, 28071), (20, 28176), (24, 28212), (27, 28275), (31, 28356), (35, 28422), (37, 28434), (41, 28539), (42, 28578), (46, 28629), (48, 28638), (54, 28719), (55, 28722), (59,

28785), (64, 28827), (66, 28839), (71, 28962), (72, 28986), (77, 29049), (81, 29088), (83, 29160), (84, 29181), (86, 29217), (87, 29238), (93, 29304), (94, 29316), (96, 29367), (97, 29370), (98, 29388), (100, 29412), (103, 29439), (105, 29472), (106, 29493), (107, 29526), (110, 29571), (118, 29712), (119, 29715), (121, 29727), (125, 29811), (134, 29946), (135, 29970), (139, 30033), (142, 30063), (143, 30069), (146, 30117), (147, 30150), (148, 30153), (152, 30255), (153, 30258),

Gene: Lolalove_28 Start: 28979, Stop: 31276, Start Num: 5

Candidate Starts for Lolalove_28:

(Start: 1 @28292 has 1 MA's), (2, 28439), (Start: 5 @28979 has 314 MA's), (13, 29078), (14, 29096), (24, 29219), (27, 29282), (31, 29363), (35, 29429), (41, 29546), (42, 29585), (46, 29636), (48, 29645), (53, 29702), (54, 29726), (55, 29729), (59, 29792), (64, 29834), (66, 29846), (71, 29969), (72, 29993), (75, 30023), (76, 30026), (77, 30056), (83, 30167), (84, 30188), (85, 30209), (86, 30224), (87, 30245), (93, 30311), (96, 30374), (97, 30377), (98, 30395), (100, 30419), (103, 30446), (105, 30479), (106, 30500), (107, 30533), (110, 30578), (118, 30719), (121, 30734), (125, 30818), (133, 30932), (134, 30953), (135, 30977), (139, 31040), (142, 31070), (146, 31124), (147, 31157), (148, 31160), (152, 31262), (153, 31265),

Gene: Longacauda_30 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Longacauda_30:

(Start: 5 @28469 has 314 MA's), (13, 28565), (19, 28643), (20, 28670), (27, 28769), (37, 28928), (45, 29108), (48, 29132), (57, 29228), (59, 29264), (63, 29303), (65, 29312), (67, 29345), (68, 29384), (70, 29429), (74, 29480), (78, 29531), (79, 29540), (82, 29609), (86, 29684), (89, 29729), (91, 29744), (101, 29879), (105, 29933), (106, 29954), (107, 29987), (110, 30032), (113, 30086), (115, 30113), (117, 30170), (121, 30191), (123, 30233), (124, 30272), (128, 30332), (146, 30572), (148, 30608), (150, 30641), (152, 30710),

Gene: Lopsy_30 Start: 28319, Stop: 30574, Start Num: 5

Candidate Starts for Lopsy_30:

(Start: 5 @28319 has 314 MA's), (13, 28415), (19, 28493), (20, 28520), (27, 28619), (37, 28778), (45, 28958), (48, 28982), (57, 29078), (59, 29114), (63, 29153), (65, 29162), (67, 29195), (68, 29234), (70, 29279), (74, 29330), (78, 29381), (79, 29390), (82, 29459), (86, 29534), (89, 29579), (91, 29594), (101, 29729), (105, 29783), (106, 29804), (107, 29837), (110, 29882), (113, 29936), (115, 29963), (117, 30020), (121, 30041), (123, 30083), (124, 30122), (128, 30182), (146, 30422), (148, 30458), (150, 30491), (152, 30560),

Gene: LostAndPhound_30 Start: 28470, Stop: 30725, Start Num: 5

Candidate Starts for LostAndPhound_30:

(Start: 5 @28470 has 314 MA's), (13, 28566), (19, 28644), (20, 28671), (27, 28770), (37, 28929), (45, 29109), (48, 29133), (56, 29223), (57, 29229), (59, 29265), (63, 29304), (65, 29313), (67, 29346), (68, 29385), (70, 29430), (74, 29481), (78, 29532), (79, 29541), (82, 29610), (86, 29685), (89, 29730), (91, 29745), (101, 29880), (105, 29934), (106, 29955), (107, 29988), (110, 30033), (113, 30087), (115, 30114), (117, 30171), (121, 30192), (123, 30234), (124, 30273), (128, 30333), (146, 30573), (148, 30609), (150, 30642), (152, 30711),

Gene: LuckyMarjie_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for LuckyMarjie_30:

(Start: 5 @28479 has 314 MA's), (13, 28575), (19, 28653), (20, 28680), (27, 28779), (37, 28938), (45, 29118), (48, 29142), (56, 29232), (57, 29238), (59, 29274), (63, 29313), (65, 29322), (67, 29355), (68, 29394), (70, 29439), (74, 29490), (78, 29541), (79, 29550), (82, 29619), (86, 29694), (89, 29739), (91, 29754), (101, 29889), (105, 29943), (106, 29964), (107, 29997), (110, 30042), (113, 30096), (115, 30123), (117, 30180), (121, 30201), (123, 30243), (124, 30282), (128, 30342), (146, 30582), (148, 30618), (150, 30651), (152, 30720),

Gene: Lulumae_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for Lulumae_30:

(Start: 5 @28461 has 314 MA's), (13, 28557), (19, 28635), (20, 28662), (27, 28761), (37, 28920), (45, 29100), (48, 29124), (56, 29214), (57, 29220), (59, 29256), (63, 29295), (65, 29304), (67, 29337), (68, 29376), (70, 29421), (74, 29472), (78, 29523), (79, 29532), (82, 29601), (86, 29676), (89, 29721), (91, 29736), (101, 29871), (105, 29925), (106, 29946), (107, 29979), (110, 30024), (113, 30078), (117, 30162), (121, 30183), (123, 30225), (124, 30264), (128, 30324), (146, 30564), (147, 30597), (148, 30600), (150, 30633), (151, 30639), (152, 30702),

Gene: Lulwa_31 Start: 28748, Stop: 31003, Start Num: 5

Candidate Starts for Lulwa_31:

(Start: 5 @28748 has 314 MA's), (13, 28844), (19, 28922), (20, 28949), (27, 29048), (37, 29207), (45, 29387), (48, 29411), (56, 29501), (57, 29507), (59, 29543), (63, 29582), (65, 29591), (67, 29624), (68, 29663), (70, 29708), (74, 29759), (78, 29810), (79, 29819), (82, 29888), (86, 29963), (89, 30008), (91, 30023), (101, 30158), (105, 30212), (106, 30233), (107, 30266), (110, 30311), (113, 30365), (115, 30392), (117, 30449), (121, 30470), (123, 30512), (124, 30551), (128, 30611), (146, 30851), (148, 30887), (150, 30920), (152, 30989),

Gene: Lumine_30 Start: 28457, Stop: 30712, Start Num: 5

Candidate Starts for Lumine_30:

(Start: 5 @28457 has 314 MA's), (13, 28553), (19, 28631), (20, 28658), (27, 28757), (37, 28916), (45, 29096), (48, 29120), (56, 29210), (57, 29216), (59, 29252), (63, 29291), (65, 29300), (67, 29333), (68, 29372), (70, 29417), (74, 29468), (78, 29519), (79, 29528), (82, 29597), (86, 29672), (89, 29717), (91, 29732), (101, 29867), (105, 29921), (106, 29942), (107, 29975), (110, 30020), (113, 30074), (115, 30101), (117, 30158), (121, 30179), (123, 30221), (124, 30260), (128, 30320), (146, 30560), (147, 30593), (148, 30596), (150, 30629), (151, 30635), (152, 30698),

Gene: MRabcd_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for MRabcd_30:

(Start: 5 @28461 has 314 MA's), (13, 28557), (19, 28635), (20, 28662), (27, 28761), (37, 28920), (45, 29100), (48, 29124), (56, 29214), (57, 29220), (59, 29256), (63, 29295), (65, 29304), (67, 29337), (68, 29376), (70, 29421), (74, 29472), (78, 29523), (79, 29532), (82, 29601), (86, 29676), (89, 29721), (91, 29736), (101, 29871), (105, 29925), (106, 29946), (107, 29979), (110, 30024), (113, 30078), (115, 30105), (117, 30162), (121, 30183), (123, 30225), (124, 30264), (128, 30324), (146, 30564), (147, 30597), (148, 30600), (150, 30633), (151, 30639), (152, 30702),

Gene: Mag7_30 Start: 28367, Stop: 30622, Start Num: 5

Candidate Starts for Mag7_30:

(Start: 5 @28367 has 314 MA's), (13, 28463), (19, 28541), (20, 28568), (27, 28667), (37, 28826), (45, 29006), (48, 29030), (56, 29120), (57, 29126), (59, 29162), (63, 29201), (65, 29210), (67, 29243), (68, 29282), (70, 29327), (74, 29378), (78, 29429), (79, 29438), (82, 29507), (86, 29582), (89, 29627), (91, 29642), (101, 29777), (105, 29831), (106, 29852), (107, 29885), (110, 29930), (113, 29984), (115, 30011), (117, 30068), (121, 30089), (123, 30131), (124, 30170), (128, 30230), (146, 30470), (147, 30503), (148, 30506), (150, 30539), (151, 30545), (152, 30608),

Gene: Magic8_31 Start: 28802, Stop: 31057, Start Num: 5

Candidate Starts for Magic8_31:

(Start: 5 @28802 has 314 MA's), (13, 28898), (19, 28976), (20, 29003), (27, 29102), (37, 29261), (45, 29441), (48, 29465), (56, 29555), (57, 29561), (59, 29597), (63, 29636), (65, 29645), (67, 29678), (68, 29717), (70, 29762), (74, 29813), (78, 29864), (79, 29873), (82, 29942), (86, 30017), (89, 30062), (91, 30077), (101, 30212), (105, 30266), (106, 30287), (107, 30320), (110, 30365), (113, 30419), (115, 30446), (117, 30503), (121, 30524), (123, 30566), (124, 30605), (128, 30665), (146, 30905), (148, 30941), (150, 30974), (152, 31043),

Gene: Magpie_27 Start: 28808, Stop: 31105, Start Num: 5

Candidate Starts for Magpie_27:

(Start: 5 @28808 has 314 MA's), (13, 28907), (14, 28925), (27, 29111), (31, 29192), (35, 29258), (41, 29375), (42, 29414), (46, 29465), (48, 29474), (53, 29531), (54, 29555), (59, 29621), (64, 29663), (66, 29675), (72, 29822), (77, 29885), (83, 29996), (84, 30017), (87, 30074), (93, 30140), (94, 30152), (96, 30203), (97, 30206), (98, 30224), (100, 30248), (103, 30275), (105, 30308), (106, 30329), (107, 30362), (110, 30407), (118, 30548), (119, 30551), (121, 30563), (125, 30647), (133, 30761), (134, 30782), (135, 30806), (139, 30869), (142, 30899), (143, 30905), (146, 30953), (147, 30986), (148, 30989), (152, 31091), (153, 31094),

Gene: Mana_30 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for Mana_30:

(Start: 5 @28476 has 314 MA's), (13, 28572), (19, 28650), (20, 28677), (27, 28776), (37, 28935), (45, 29115), (48, 29139), (56, 29229), (57, 29235), (59, 29271), (63, 29310), (65, 29319), (67, 29352), (68, 29391), (70, 29436), (74, 29487), (78, 29538), (79, 29547), (82, 29616), (86, 29691), (89, 29736), (91, 29751), (101, 29886), (105, 29940), (106, 29961), (107, 29994), (110, 30039), (113, 30093), (115, 30120), (117, 30177), (121, 30198), (123, 30240), (124, 30279), (128, 30339), (146, 30579), (148, 30615), (150, 30648), (152, 30717),

Gene: Manad_30 Start: 28315, Stop: 30573, Start Num: 5

Candidate Starts for Manad_30:

(Start: 5 @28315 has 314 MA's), (13, 28411), (19, 28489), (20, 28516), (27, 28618), (37, 28777), (45, 28957), (48, 28981), (57, 29077), (59, 29113), (63, 29152), (65, 29161), (67, 29194), (68, 29233), (70, 29278), (74, 29329), (78, 29380), (79, 29389), (82, 29458), (86, 29533), (89, 29578), (91, 29593), (101, 29728), (105, 29782), (106, 29803), (107, 29836), (110, 29881), (113, 29935), (117, 30019), (121, 30040), (123, 30082), (124, 30121), (128, 30181), (146, 30421), (147, 30454), (148, 30457), (150, 30490), (151, 30496), (152, 30559),

Gene: Marley1013_31 Start: 29395, Stop: 31620, Start Num: 4

Candidate Starts for Marley1013_31:

(Start: 4 @29395 has 49 MA's), (Start: 7 @29410 has 1 MA's), (10, 29455), (14, 29512), (21, 29590), (26, 29659), (27, 29671), (30, 29713), (32, 29749), (33, 29776), (34, 29788), (36, 29815), (39, 29905), (43, 29977), (52, 30061), (60, 30169), (61, 30190), (68, 30283), (69, 30298), (77, 30427), (82, 30508), (86, 30583), (88, 30625), (89, 30631), (93, 30667), (101, 30781), (102, 30793), (105, 30835), (106, 30856), (109, 30910), (110, 30934), (117, 31066), (119, 31075), (123, 31129), (129, 31237), (130, 31264), (134, 31306), (138, 31378), (146, 31468), (148, 31504),

Gene: Marlia_31 Start: 28597, Stop: 30822, Start Num: 4

Candidate Starts for Marlia_31:

(Start: 4 @28597 has 49 MA's), (Start: 7 @28612 has 1 MA's), (10, 28657), (14, 28714), (21, 28792), (26, 28861), (27, 28873), (30, 28915), (32, 28951), (33, 28978), (34, 28990), (36, 29017), (39, 29107), (43, 29179), (52, 29263), (60, 29371), (61, 29392), (68, 29485), (69, 29500), (77, 29629), (82, 29710), (86, 29785), (88, 29827), (89, 29833), (93, 29869), (101, 29983), (102, 29995), (105, 30037), (106, 30058), (109, 30112), (110, 30136), (112, 30172), (117, 30268), (119, 30277), (123, 30331), (129, 30439), (130, 30466), (134, 30508), (138, 30580), (146, 30670), (148, 30706),

Gene: Maru_30 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Maru_30:

(Start: 5 @28469 has 314 MA's), (13, 28565), (19, 28643), (20, 28670), (27, 28769), (37, 28928), (45, 29108), (48, 29132), (56, 29222), (57, 29228), (59, 29264), (63, 29303), (65, 29312), (67, 29345), (68, 29384), (70, 29429), (74, 29480), (78, 29531), (79, 29540), (82, 29609), (86, 29684), (89, 29729), (91, 29744), (101, 29879), (105, 29933), (106, 29954), (107, 29987), (110, 30032), (113, 30086), (115,

30113), (117, 30170), (121, 30191), (123, 30233), (124, 30272), (128, 30332), (146, 30572), (148, 30608), (150, 30641), (152, 30710),

Gene: Maskar_30 Start: 28315, Stop: 30570, Start Num: 5

Candidate Starts for Maskar_30:

(Start: 5 @28315 has 314 MA's), (13, 28411), (19, 28489), (20, 28516), (27, 28615), (37, 28774), (45, 28954), (48, 28978), (57, 29074), (59, 29110), (63, 29149), (65, 29158), (67, 29191), (68, 29230), (70, 29275), (74, 29326), (78, 29377), (79, 29386), (82, 29455), (86, 29530), (89, 29575), (91, 29590), (101, 29725), (105, 29779), (106, 29800), (107, 29833), (110, 29878), (113, 29932), (115, 29959), (117, 30016), (121, 30037), (123, 30079), (124, 30118), (128, 30178), (146, 30418), (148, 30454), (150, 30487), (152, 30556),

Gene: Matalotodo_31 Start: 28762, Stop: 31017, Start Num: 5

Candidate Starts for Matalotodo_31:

(Start: 5 @28762 has 314 MA's), (13, 28858), (19, 28936), (20, 28963), (27, 29062), (37, 29221), (45, 29401), (48, 29425), (56, 29515), (57, 29521), (59, 29557), (63, 29596), (65, 29605), (67, 29638), (68, 29677), (70, 29722), (74, 29773), (78, 29824), (79, 29833), (82, 29902), (86, 29977), (89, 30022), (91, 30037), (101, 30172), (105, 30226), (106, 30247), (107, 30280), (110, 30325), (113, 30379), (115, 30406), (117, 30463), (121, 30484), (123, 30526), (124, 30565), (128, 30625), (146, 30865), (148, 30901), (150, 30934), (152, 31003),

Gene: Mcshane_30 Start: 28459, Stop: 30714, Start Num: 5

Candidate Starts for Mcshane_30:

(Start: 5 @28459 has 314 MA's), (13, 28555), (19, 28633), (20, 28660), (27, 28759), (37, 28918), (45, 29098), (48, 29122), (56, 29212), (57, 29218), (59, 29254), (63, 29293), (65, 29302), (67, 29335), (68, 29374), (70, 29419), (74, 29470), (78, 29521), (79, 29530), (82, 29599), (86, 29674), (89, 29719), (91, 29734), (101, 29869), (105, 29923), (106, 29944), (107, 29977), (110, 30022), (113, 30076), (115, 30103), (117, 30160), (121, 30181), (123, 30223), (124, 30262), (128, 30322), (146, 30562), (148, 30598), (150, 30631), (152, 30700),

Gene: Mecca_30 Start: 28462, Stop: 30717, Start Num: 5

Candidate Starts for Mecca_30:

(Start: 5 @28462 has 314 MA's), (13, 28558), (19, 28636), (20, 28663), (27, 28762), (37, 28921), (45, 29101), (48, 29125), (56, 29215), (57, 29221), (59, 29257), (63, 29296), (65, 29305), (67, 29338), (68, 29377), (70, 29422), (74, 29473), (78, 29524), (79, 29533), (82, 29602), (86, 29677), (89, 29722), (91, 29737), (101, 29872), (105, 29926), (106, 29947), (107, 29980), (110, 30025), (113, 30079), (115, 30106), (117, 30163), (121, 30184), (123, 30226), (124, 30265), (128, 30325), (146, 30565), (147, 30598), (148, 30601), (150, 30634), (151, 30640), (152, 30703),

Gene: Megamind20_31 Start: 28484, Stop: 30739, Start Num: 5

Candidate Starts for Megamind20_31:

(Start: 5 @28484 has 314 MA's), (13, 28580), (19, 28658), (20, 28685), (27, 28784), (37, 28943), (45, 29123), (48, 29147), (56, 29237), (57, 29243), (59, 29279), (63, 29318), (65, 29327), (67, 29360), (68, 29399), (70, 29444), (74, 29495), (78, 29546), (79, 29555), (82, 29624), (86, 29699), (89, 29744), (91, 29759), (101, 29894), (105, 29948), (106, 29969), (107, 30002), (110, 30047), (113, 30101), (115, 30128), (117, 30185), (121, 30206), (123, 30248), (124, 30287), (128, 30347), (146, 30587), (147, 30620), (148, 30623), (150, 30656), (151, 30662), (152, 30725),

Gene: Megatron_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Megatron_31:

(Start: 5 @28760 has 314 MA's), (13, 28856), (19, 28934), (20, 28961), (27, 29060), (37, 29219), (45, 29399), (48, 29423), (56, 29513), (57, 29519), (59, 29555), (63, 29594), (65, 29603), (67, 29636), (68, 29675), (70, 29720), (74, 29771), (78, 29822), (79, 29831), (82, 29900), (86, 29975), (89, 30020), (91,

30035), (101, 30170), (105, 30224), (106, 30245), (107, 30278), (110, 30323), (113, 30377), (115, 30404), (117, 30461), (121, 30482), (123, 30524), (124, 30563), (128, 30623), (146, 30863), (147, 30896), (148, 30899), (150, 30932), (151, 30938), (152, 31001),

Gene: Melc17_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for Melc17_31:

(Start: 5 @28757 has 314 MA's), (13, 28853), (19, 28931), (20, 28958), (27, 29057), (37, 29216), (45, 29396), (48, 29420), (56, 29510), (57, 29516), (59, 29552), (63, 29591), (65, 29600), (67, 29633), (68, 29672), (70, 29717), (74, 29768), (78, 29819), (79, 29828), (82, 29897), (86, 29972), (89, 30017), (91, 30032), (101, 30167), (105, 30221), (106, 30242), (107, 30275), (110, 30320), (113, 30374), (115, 30401), (117, 30458), (121, 30479), (123, 30521), (124, 30560), (128, 30620), (146, 30860), (147, 30893), (148, 30896), (150, 30929), (151, 30935), (152, 30998),

Gene: MelsMeow_30 Start: 28361, Stop: 30619, Start Num: 5

Candidate Starts for MelsMeow_30:

(Start: 5 @28361 has 314 MA's), (13, 28457), (19, 28535), (20, 28562), (27, 28664), (37, 28823), (45, 29003), (48, 29027), (50, 29039), (57, 29123), (59, 29159), (63, 29198), (65, 29207), (67, 29240), (68, 29279), (70, 29324), (74, 29375), (78, 29426), (79, 29435), (82, 29504), (86, 29579), (89, 29624), (91, 29639), (101, 29774), (105, 29828), (106, 29849), (107, 29882), (110, 29927), (113, 29981), (115, 30008), (117, 30065), (121, 30086), (123, 30128), (124, 30167), (128, 30227), (146, 30467), (148, 30503), (150, 30536), (152, 30605),

Gene: Mesh1_31 Start: 28774, Stop: 31029, Start Num: 5

Candidate Starts for Mesh1_31:

(Start: 5 @28774 has 314 MA's), (13, 28870), (19, 28948), (20, 28975), (27, 29074), (37, 29233), (45, 29413), (48, 29437), (56, 29527), (57, 29533), (59, 29569), (63, 29608), (65, 29617), (67, 29650), (68, 29689), (70, 29734), (74, 29785), (78, 29836), (79, 29845), (82, 29914), (86, 29989), (89, 30034), (91, 30049), (101, 30184), (105, 30238), (106, 30259), (107, 30292), (110, 30337), (113, 30391), (115, 30418), (117, 30475), (121, 30496), (123, 30538), (124, 30577), (128, 30637), (146, 30877), (147, 30910), (148, 30913), (150, 30946), (151, 30952), (152, 31015),

Gene: Mesmerelda_30 Start: 28472, Stop: 30727, Start Num: 5

Candidate Starts for Mesmerelda_30:

(Start: 5 @28472 has 314 MA's), (13, 28568), (19, 28646), (20, 28673), (27, 28772), (37, 28931), (45, 29111), (48, 29135), (56, 29225), (57, 29231), (59, 29267), (63, 29306), (65, 29315), (67, 29348), (68, 29387), (70, 29432), (74, 29483), (78, 29534), (79, 29543), (82, 29612), (86, 29687), (89, 29732), (91, 29747), (101, 29882), (105, 29936), (106, 29957), (107, 29990), (110, 30035), (113, 30089), (115, 30116), (117, 30173), (121, 30194), (123, 30236), (124, 30275), (128, 30335), (146, 30575), (148, 30611), (150, 30644), (152, 30713),

Gene: MichaelPhcott_30 Start: 28364, Stop: 30619, Start Num: 5

Candidate Starts for MichaelPhcott_30:

(Start: 5 @28364 has 314 MA's), (13, 28460), (19, 28538), (20, 28565), (27, 28664), (37, 28823), (45, 29003), (48, 29027), (56, 29117), (57, 29123), (59, 29159), (63, 29198), (65, 29207), (67, 29240), (68, 29279), (70, 29324), (74, 29375), (78, 29426), (79, 29435), (82, 29504), (86, 29579), (89, 29624), (91, 29639), (101, 29774), (105, 29828), (106, 29849), (107, 29882), (110, 29927), (113, 29981), (115, 30008), (117, 30065), (121, 30086), (123, 30128), (124, 30167), (128, 30227), (146, 30467), (147, 30500), (148, 30503), (150, 30536), (151, 30542), (152, 30605),

Gene: Mikota_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Mikota_31:

(Start: 5 @28747 has 314 MA's), (13, 28843), (19, 28921), (20, 28948), (27, 29047), (37, 29206), (45, 29386), (48, 29410), (57, 29506), (59, 29542), (63, 29581), (65, 29590), (67, 29623), (68, 29662), (70,

29707), (74, 29758), (78, 29809), (79, 29818), (82, 29887), (86, 29962), (89, 30007), (91, 30022), (101, 30157), (105, 30211), (106, 30232), (107, 30265), (110, 30310), (113, 30364), (115, 30391), (117, 30448), (121, 30469), (123, 30511), (124, 30550), (128, 30610), (146, 30850), (147, 30883), (148, 30886), (150, 30919), (151, 30925), (152, 30988),

Gene: MiniBoss_31 Start: 28753, Stop: 31008, Start Num: 5

Candidate Starts for MiniBoss_31:

(Start: 5 @28753 has 314 MA's), (13, 28849), (19, 28927), (20, 28954), (27, 29053), (37, 29212), (45, 29392), (48, 29416), (57, 29512), (59, 29548), (63, 29587), (65, 29596), (67, 29629), (68, 29668), (70, 29713), (74, 29764), (78, 29815), (79, 29824), (82, 29893), (86, 29968), (89, 30013), (91, 30028), (101, 30163), (105, 30217), (106, 30238), (107, 30271), (110, 30316), (113, 30370), (115, 30397), (117, 30454), (121, 30475), (123, 30517), (124, 30556), (128, 30616), (146, 30856), (148, 30892), (150, 30925), (152, 30994),

Gene: MitKao_31 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for MitKao_31:

(Start: 5 @28468 has 314 MA's), (13, 28564), (19, 28642), (20, 28669), (27, 28768), (37, 28927), (45, 29107), (48, 29131), (56, 29221), (57, 29227), (59, 29263), (63, 29302), (65, 29311), (67, 29344), (68, 29383), (70, 29428), (74, 29479), (78, 29530), (79, 29539), (82, 29608), (86, 29683), (89, 29728), (91, 29743), (101, 29878), (105, 29932), (106, 29953), (107, 29986), (110, 30031), (113, 30085), (115, 30112), (117, 30169), (121, 30190), (123, 30232), (124, 30271), (128, 30331), (146, 30571), (147, 30604), (148, 30607), (150, 30640), (151, 30646), (152, 30709),

Gene: Mithril_28 Start: 28983, Stop: 31280, Start Num: 5

Candidate Starts for Mithril_28:

(Start: 1 @28296 has 1 MA's), (2, 28443), (Start: 5 @28983 has 314 MA's), (13, 29082), (14, 29100), (24, 29223), (27, 29286), (31, 29367), (35, 29433), (41, 29550), (42, 29589), (46, 29640), (48, 29649), (53, 29706), (54, 29730), (55, 29733), (59, 29796), (64, 29838), (66, 29850), (71, 29973), (72, 29997), (75, 30027), (76, 30030), (77, 30060), (83, 30171), (84, 30192), (85, 30213), (86, 30228), (87, 30249), (93, 30315), (94, 30327), (96, 30378), (97, 30381), (98, 30399), (100, 30423), (103, 30450), (105, 30483), (106, 30504), (107, 30537), (110, 30582), (118, 30723), (119, 30726), (121, 30738), (125, 30822), (133, 30936), (134, 30957), (135, 30981), (139, 31044), (142, 31074), (143, 31080), (146, 31128), (147, 31161), (148, 31164), (152, 31266), (153, 31269),

Gene: MmasiCarm_31 Start: 28599, Stop: 30824, Start Num: 4

Candidate Starts for MmasiCarm_31:

(Start: 4 @28599 has 49 MA's), (Start: 7 @28614 has 1 MA's), (10, 28659), (14, 28716), (21, 28794), (26, 28863), (27, 28875), (30, 28917), (32, 28953), (33, 28980), (34, 28992), (36, 29019), (39, 29109), (43, 29181), (52, 29265), (60, 29373), (61, 29394), (68, 29487), (69, 29502), (77, 29631), (82, 29712), (86, 29787), (88, 29829), (89, 29835), (93, 29871), (101, 29985), (102, 29997), (105, 30039), (106, 30060), (109, 30114), (110, 30138), (112, 30174), (117, 30270), (119, 30279), (123, 30333), (129, 30441), (130, 30468), (134, 30510), (138, 30582), (146, 30672), (148, 30708),

Gene: Morgushi_31 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Morgushi_31:

(Start: 5 @28469 has 314 MA's), (13, 28565), (19, 28643), (20, 28670), (27, 28769), (37, 28928), (45, 29108), (48, 29132), (57, 29228), (59, 29264), (63, 29303), (65, 29312), (67, 29345), (68, 29384), (70, 29429), (74, 29480), (78, 29531), (79, 29540), (82, 29609), (86, 29684), (89, 29729), (91, 29744), (101, 29879), (105, 29933), (106, 29954), (107, 29987), (110, 30032), (113, 30086), (115, 30113), (117, 30170), (121, 30191), (123, 30233), (124, 30272), (128, 30332), (146, 30572), (148, 30608), (150, 30641), (152, 30710),

Gene: Mortcellus_30 Start: 29251, Stop: 31476, Start Num: 4

Candidate Starts for Mortcellus_30:

(Start: 4 @29251 has 49 MA's), (Start: 7 @29266 has 1 MA's), (10, 29311), (14, 29368), (21, 29446), (26, 29515), (27, 29527), (30, 29569), (32, 29605), (33, 29632), (34, 29644), (36, 29671), (39, 29761), (43, 29833), (52, 29917), (60, 30025), (61, 30046), (68, 30139), (69, 30154), (77, 30283), (82, 30364), (86, 30439), (88, 30481), (89, 30487), (93, 30523), (101, 30637), (102, 30649), (105, 30691), (106, 30712), (109, 30766), (110, 30790), (112, 30826), (117, 30922), (119, 30931), (123, 30985), (129, 31093), (130, 31120), (134, 31162), (138, 31234), (146, 31324), (148, 31360),

Gene: Morty_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Morty_31:

(Start: 5 @28769 has 314 MA's), (13, 28865), (19, 28943), (20, 28970), (27, 29069), (37, 29228), (45, 29408), (48, 29432), (56, 29522), (57, 29528), (59, 29564), (63, 29603), (65, 29612), (67, 29645), (68, 29684), (70, 29729), (74, 29780), (78, 29831), (79, 29840), (82, 29909), (86, 29984), (89, 30029), (91, 30044), (101, 30179), (105, 30233), (106, 30254), (107, 30287), (110, 30332), (113, 30386), (115, 30413), (117, 30470), (121, 30491), (123, 30533), (124, 30572), (128, 30632), (146, 30872), (147, 30905), (148, 30908), (150, 30941), (151, 30947), (152, 31010),

Gene: Morty007_31 Start: 29395, Stop: 31620, Start Num: 4

Candidate Starts for Morty007_31:

(Start: 4 @29395 has 49 MA's), (Start: 7 @29410 has 1 MA's), (10, 29455), (14, 29512), (21, 29590), (26, 29659), (27, 29671), (30, 29713), (32, 29749), (33, 29776), (34, 29788), (36, 29815), (39, 29905), (43, 29977), (52, 30061), (60, 30169), (61, 30190), (68, 30283), (69, 30298), (77, 30427), (82, 30508), (86, 30583), (88, 30625), (89, 30631), (93, 30667), (101, 30781), (102, 30793), (105, 30835), (106, 30856), (109, 30910), (110, 30934), (117, 31066), (119, 31075), (123, 31129), (129, 31237), (130, 31264), (134, 31306), (138, 31378), (146, 31468), (148, 31504),

Gene: Mosaic_30 Start: 28474, Stop: 30729, Start Num: 5

Candidate Starts for Mosaic_30:

(Start: 5 @28474 has 314 MA's), (13, 28570), (19, 28648), (20, 28675), (27, 28774), (37, 28933), (45, 29113), (48, 29137), (56, 29227), (57, 29233), (59, 29269), (63, 29308), (65, 29317), (67, 29350), (68, 29389), (70, 29434), (74, 29485), (78, 29536), (79, 29545), (82, 29614), (86, 29689), (89, 29734), (91, 29749), (101, 29884), (105, 29938), (106, 29959), (107, 29992), (110, 30037), (113, 30091), (115, 30118), (117, 30175), (121, 30196), (123, 30238), (124, 30277), (128, 30337), (146, 30577), (147, 30610), (148, 30613), (150, 30646), (151, 30652), (152, 30715),

Gene: MrPhizzler_31 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for MrPhizzler_31:

(Start: 5 @28476 has 314 MA's), (13, 28572), (19, 28650), (20, 28677), (27, 28776), (37, 28935), (45, 29115), (48, 29139), (57, 29235), (59, 29271), (63, 29310), (65, 29319), (67, 29352), (68, 29391), (70, 29436), (74, 29487), (78, 29538), (79, 29547), (82, 29616), (86, 29691), (89, 29736), (91, 29751), (101, 29886), (105, 29940), (106, 29961), (107, 29994), (110, 30039), (113, 30093), (115, 30120), (117, 30177), (121, 30198), (123, 30240), (124, 30279), (128, 30339), (146, 30579), (148, 30615), (150, 30648), (152, 30717),

Gene: Mudslide_28 Start: 29215, Stop: 31512, Start Num: 5

Candidate Starts for Mudslide_28:

(Start: 1 @28528 has 1 MA's), (2, 28675), (Start: 5 @29215 has 314 MA's), (13, 29314), (14, 29332), (24, 29455), (27, 29518), (31, 29599), (35, 29665), (41, 29782), (42, 29821), (46, 29872), (48, 29881), (53, 29938), (54, 29962), (55, 29965), (59, 30028), (64, 30070), (66, 30082), (70, 30193), (71, 30205), (72, 30229), (77, 30292), (83, 30403), (84, 30424), (86, 30460), (87, 30481), (93, 30547), (94, 30559), (96, 30610), (97, 30613), (98, 30631), (100, 30655), (103, 30682), (105, 30715), (106, 30736), (107, 30769), (110, 30814), (118, 30955), (119, 30958), (120, 30961), (121, 30970), (125, 31054), (133, 31168), (134, 31189), (135, 31213), (139, 31276), (142, 31306), (143, 31312), (146, 31360), (147,

31393), (148, 31396), (152, 31498), (153, 31501),

Gene: Mulan_30 Start: 28486, Stop: 30741, Start Num: 5

Candidate Starts for Mulan_30:

(Start: 5 @28486 has 314 MA's), (13, 28582), (19, 28660), (20, 28687), (27, 28786), (37, 28945), (45, 29125), (48, 29149), (56, 29239), (57, 29245), (59, 29281), (63, 29320), (65, 29329), (67, 29362), (68, 29401), (70, 29446), (74, 29497), (78, 29548), (79, 29557), (82, 29626), (86, 29701), (89, 29746), (91, 29761), (101, 29896), (105, 29950), (106, 29971), (107, 30004), (110, 30049), (113, 30103), (117, 30187), (121, 30208), (123, 30250), (124, 30289), (128, 30349), (146, 30589), (147, 30622), (148, 30625), (150, 30658), (151, 30664), (152, 30727),

Gene: Mulaychimus_31 Start: 28581, Stop: 30806, Start Num: 4

Candidate Starts for Mulaychimus_31:

(Start: 4 @28581 has 49 MA's), (Start: 7 @28596 has 1 MA's), (10, 28641), (14, 28698), (21, 28776), (26, 28845), (27, 28857), (30, 28899), (32, 28935), (33, 28962), (34, 28974), (36, 29001), (39, 29091), (43, 29163), (52, 29247), (60, 29355), (61, 29376), (68, 29469), (69, 29484), (77, 29613), (82, 29694), (86, 29769), (88, 29811), (89, 29817), (93, 29853), (96, 29916), (101, 29967), (102, 29979), (105, 30021), (106, 30042), (109, 30096), (110, 30120), (112, 30156), (117, 30252), (119, 30261), (123, 30315), (129, 30423), (130, 30450), (134, 30492), (138, 30564), (146, 30654), (148, 30690),

Gene: Murdoc_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Murdoc_31:

(Start: 5 @28761 has 314 MA's), (13, 28857), (19, 28935), (20, 28962), (27, 29061), (37, 29220), (45, 29400), (48, 29424), (56, 29514), (57, 29520), (59, 29556), (63, 29595), (65, 29604), (67, 29637), (68, 29676), (70, 29721), (74, 29772), (78, 29823), (79, 29832), (82, 29901), (86, 29976), (89, 30021), (91, 30036), (101, 30171), (105, 30225), (106, 30246), (107, 30279), (110, 30324), (113, 30378), (115, 30405), (117, 30462), (121, 30483), (123, 30525), (124, 30564), (128, 30624), (146, 30864), (148, 30900), (150, 30933), (152, 31002),

Gene: Mutante_30 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for Mutante_30:

(Start: 5 @28468 has 314 MA's), (13, 28564), (19, 28642), (20, 28669), (27, 28768), (37, 28927), (45, 29107), (48, 29131), (56, 29221), (57, 29227), (59, 29263), (63, 29302), (65, 29311), (67, 29344), (68, 29383), (70, 29428), (74, 29479), (78, 29530), (79, 29539), (82, 29608), (86, 29683), (89, 29728), (91, 29743), (101, 29878), (105, 29932), (106, 29953), (107, 29986), (110, 30031), (113, 30085), (115, 30112), (117, 30169), (121, 30190), (123, 30232), (124, 30271), (128, 30331), (146, 30571), (148, 30607), (150, 30640), (152, 30709),

Gene: Mysterious_30 Start: 29235, Stop: 31496, Start Num: 5

Candidate Starts for Mysterious_30:

(Start: 5 @29235 has 314 MA's), (13, 29331), (17, 29388), (18, 29406), (22, 29451), (41, 29799), (49, 29901), (52, 29931), (53, 29955), (54, 29979), (55, 29982), (63, 30072), (66, 30087), (75, 30264), (78, 30300), (81, 30336), (82, 30378), (86, 30453), (89, 30504), (99, 30627), (101, 30654), (105, 30708), (106, 30729), (107, 30762), (117, 30942), (119, 30951), (121, 30963), (124, 31044), (125, 31047), (127, 31101), (129, 31113), (131, 31143), (133, 31161), (137, 31227), (141, 31275), (146, 31344), (152, 31482), (153, 31485),

Gene: Nacho_0031 Start: 28760, Stop: 31018, Start Num: 5

Candidate Starts for Nacho_0031:

(Start: 5 @28760 has 314 MA's), (13, 28856), (19, 28934), (20, 28961), (27, 29063), (37, 29222), (45, 29402), (48, 29426), (57, 29522), (59, 29558), (63, 29597), (65, 29606), (67, 29639), (68, 29678), (70, 29723), (74, 29774), (78, 29825), (79, 29834), (82, 29903), (86, 29978), (89, 30023), (91, 30038), (101, 30173), (105, 30227), (106, 30248), (107, 30281), (110, 30326), (113, 30380), (117, 30464), (121,

30485), (123, 30527), (124, 30566), (128, 30626), (146, 30866), (147, 30899), (148, 30902), (150, 30935), (151, 30941), (152, 31004),

Gene: Nanao_27 Start: 27940, Stop: 30237, Start Num: 5

Candidate Starts for Nanao_27:

(Start: 5 @27940 has 314 MA's), (13, 28039), (20, 28144), (24, 28180), (27, 28243), (31, 28324), (35, 28390), (37, 28402), (41, 28507), (42, 28546), (46, 28597), (48, 28606), (54, 28687), (55, 28690), (59, 28753), (64, 28795), (66, 28807), (71, 28930), (72, 28954), (77, 29017), (80, 29047), (81, 29056), (83, 29128), (84, 29149), (86, 29185), (87, 29206), (93, 29272), (94, 29284), (96, 29335), (97, 29338), (98, 29356), (100, 29380), (103, 29407), (105, 29440), (106, 29461), (107, 29494), (110, 29539), (118, 29680), (119, 29683), (121, 29695), (125, 29779), (134, 29914), (135, 29938), (139, 30001), (142, 30031), (143, 30037), (146, 30085), (147, 30118), (148, 30121), (152, 30223), (153, 30226),

Gene: Nangang_30 Start: 28934, Stop: 31201, Start Num: 5

Candidate Starts for Nangang_30:

(Start: 5 @28934 has 314 MA's), (8, 28982), (12, 29012), (13, 29030), (15, 29066), (17, 29087), (18, 29105), (24, 29168), (28, 29273), (37, 29396), (38, 29402), (41, 29501), (49, 29603), (53, 29657), (63, 29777), (66, 29792), (67, 29819), (78, 30005), (81, 30041), (82, 30083), (86, 30158), (89, 30209), (93, 30245), (96, 30308), (99, 30332), (101, 30359), (109, 30488), (110, 30512), (117, 30647), (119, 30656), (121, 30668), (123, 30710), (124, 30749), (125, 30752), (127, 30806), (129, 30818), (131, 30848), (133, 30866), (137, 30932), (146, 31049), (152, 31187),

Gene: Nathan_31 Start: 28793, Stop: 31054, Start Num: 5

Candidate Starts for Nathan_31:

(Start: 5 @28793 has 314 MA's), (13, 28889), (19, 28967), (20, 28994), (25, 29069), (27, 29099), (37, 29258), (45, 29438), (48, 29462), (57, 29558), (59, 29594), (63, 29633), (65, 29642), (67, 29675), (68, 29714), (70, 29759), (74, 29810), (79, 29870), (82, 29939), (86, 30014), (89, 30059), (91, 30074), (101, 30209), (105, 30263), (106, 30284), (107, 30317), (110, 30362), (113, 30416), (115, 30443), (117, 30500), (121, 30521), (123, 30563), (124, 30602), (128, 30662), (146, 30902), (148, 30938), (150, 30971), (152, 31040),

Gene: Nehemiah_29 Start: 29235, Stop: 31499, Start Num: 5

Candidate Starts for Nehemiah_29:

(Start: 5 @29235 has 314 MA's), (9, 29286), (13, 29331), (17, 29388), (18, 29406), (22, 29451), (41, 29802), (49, 29904), (52, 29934), (53, 29958), (54, 29982), (55, 29985), (63, 30075), (66, 30090), (75, 30267), (78, 30303), (81, 30339), (82, 30381), (86, 30456), (89, 30507), (99, 30630), (101, 30657), (105, 30711), (106, 30732), (107, 30765), (117, 30945), (119, 30954), (121, 30966), (124, 31047), (125, 31050), (127, 31104), (129, 31116), (131, 31146), (133, 31164), (137, 31230), (141, 31278), (146, 31347), (152, 31485), (153, 31488),

Gene: Neos5_31 Start: 29411, Stop: 31639, Start Num: 4

Candidate Starts for Neos5_31:

(Start: 4 @29411 has 49 MA's), (Start: 7 @29426 has 1 MA's), (10, 29471), (14, 29528), (21, 29606), (26, 29675), (27, 29687), (30, 29729), (32, 29765), (33, 29792), (34, 29804), (36, 29831), (39, 29921), (40, 29945), (43, 29993), (52, 30077), (60, 30185), (61, 30206), (68, 30299), (69, 30314), (77, 30443), (82, 30524), (86, 30599), (89, 30647), (96, 30746), (101, 30797), (102, 30809), (105, 30851), (106, 30872), (109, 30926), (110, 30950), (112, 30986), (117, 31085), (119, 31094), (123, 31148), (129, 31256), (130, 31283), (134, 31325), (138, 31397), (146, 31487), (148, 31523),

Gene: Newman_31 Start: 28756, Stop: 31014, Start Num: 5

Candidate Starts for Newman_31:

(Start: 5 @28756 has 314 MA's), (13, 28852), (19, 28930), (20, 28957), (27, 29059), (37, 29218), (45, 29398), (48, 29422), (57, 29518), (59, 29554), (63, 29593), (65, 29602), (67, 29635), (68, 29674), (70,

29719), (74, 29770), (78, 29821), (79, 29830), (82, 29899), (86, 29974), (89, 30019), (91, 30034), (101, 30169), (105, 30223), (106, 30244), (107, 30277), (110, 30322), (113, 30376), (117, 30460), (121, 30481), (123, 30523), (124, 30562), (128, 30622), (146, 30862), (147, 30895), (148, 30898), (150, 30931), (151, 30937), (152, 31000),

Gene: Nicole21_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Nicole21_31:

(Start: 5 @28758 has 314 MA's), (13, 28854), (19, 28932), (20, 28959), (27, 29058), (37, 29217), (45, 29397), (48, 29421), (56, 29511), (57, 29517), (59, 29553), (63, 29592), (65, 29601), (67, 29634), (68, 29673), (70, 29718), (74, 29769), (78, 29820), (79, 29829), (82, 29898), (86, 29973), (89, 30018), (91, 30033), (101, 30168), (105, 30222), (106, 30243), (107, 30276), (110, 30321), (113, 30375), (115, 30402), (117, 30459), (121, 30480), (123, 30522), (124, 30561), (128, 30621), (146, 30861), (147, 30894), (148, 30897), (150, 30930), (151, 30936), (152, 30999),

Gene: Nigel_26 Start: 27851, Stop: 30148, Start Num: 5

Candidate Starts for Nigel_26:

(3, 27722), (Start: 5 @27851 has 314 MA's), (13, 27950), (14, 27968), (27, 28154), (29, 28199), (31, 28235), (35, 28301), (41, 28418), (42, 28457), (43, 28463), (54, 28598), (55, 28601), (59, 28664), (64, 28706), (66, 28718), (72, 28865), (77, 28928), (81, 28967), (83, 29039), (84, 29060), (85, 29081), (86, 29096), (87, 29117), (89, 29147), (93, 29183), (94, 29195), (96, 29246), (97, 29249), (98, 29267), (100, 29291), (101, 29297), (105, 29351), (106, 29372), (109, 29426), (110, 29450), (117, 29585), (118, 29591), (119, 29594), (120, 29597), (121, 29606), (134, 29825), (135, 29849), (139, 29912), (143, 29948), (144, 29981), (146, 29996), (147, 30029), (148, 30032), (152, 30134), (153, 30137),

Gene: Nozo_31 Start: 29375, Stop: 31600, Start Num: 4

Candidate Starts for Nozo_31:

(Start: 4 @29375 has 49 MA's), (Start: 7 @29390 has 1 MA's), (10, 29435), (14, 29492), (21, 29570), (26, 29639), (27, 29651), (30, 29693), (32, 29729), (33, 29756), (34, 29768), (36, 29795), (39, 29885), (43, 29957), (52, 30041), (60, 30149), (61, 30170), (68, 30263), (69, 30278), (77, 30407), (82, 30488), (86, 30563), (88, 30605), (89, 30611), (96, 30710), (101, 30761), (102, 30773), (105, 30815), (106, 30836), (109, 30890), (110, 30914), (112, 30950), (117, 31046), (119, 31055), (123, 31109), (129, 31217), (130, 31244), (134, 31286), (138, 31358), (146, 31448), (148, 31484),

Gene: Numberten_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Numberten_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: Nyala_30 Start: 28460, Stop: 30715, Start Num: 5

Candidate Starts for Nyala_30:

(Start: 5 @28460 has 314 MA's), (13, 28556), (19, 28634), (20, 28661), (27, 28760), (37, 28919), (45, 29099), (48, 29123), (56, 29213), (57, 29219), (59, 29255), (63, 29294), (65, 29303), (67, 29336), (68, 29375), (70, 29420), (74, 29471), (78, 29522), (79, 29531), (82, 29600), (86, 29675), (89, 29720), (91, 29735), (101, 29870), (105, 29924), (106, 29945), (107, 29978), (110, 30023), (113, 30077), (115, 30104), (117, 30161), (121, 30182), (123, 30224), (124, 30263), (128, 30323), (146, 30563), (147, 30596), (148, 30599), (150, 30632), (151, 30638), (152, 30701),

Gene: OSmaximus_31 Start: 28795, Stop: 31056, Start Num: 5

Candidate Starts for OSmaximus_31:

(Start: 5 @28795 has 314 MA's), (13, 28891), (19, 28969), (20, 28996), (25, 29071), (27, 29101), (37, 29260), (45, 29440), (48, 29464), (57, 29560), (59, 29596), (63, 29635), (65, 29644), (67, 29677), (68, 29716), (70, 29761), (74, 29812), (79, 29872), (82, 29941), (86, 30016), (89, 30061), (91, 30076), (101, 30211), (105, 30265), (106, 30286), (107, 30319), (110, 30364), (113, 30418), (115, 30445), (117, 30502), (121, 30523), (123, 30565), (124, 30604), (128, 30664), (146, 30904), (148, 30940), (150, 30973), (152, 31042),

Gene: Obutu_31 Start: 28599, Stop: 30824, Start Num: 4

Candidate Starts for Obutu_31:

(Start: 4 @28599 has 49 MA's), (10, 28659), (14, 28716), (26, 28863), (27, 28875), (30, 28917), (32, 28953), (33, 28980), (34, 28992), (36, 29019), (39, 29109), (43, 29181), (52, 29265), (60, 29373), (61, 29394), (68, 29487), (69, 29502), (77, 29631), (82, 29712), (86, 29787), (88, 29829), (89, 29835), (93, 29871), (101, 29985), (102, 29997), (105, 30039), (106, 30060), (109, 30114), (110, 30138), (112, 30174), (117, 30270), (119, 30279), (123, 30333), (129, 30441), (130, 30468), (134, 30510), (138, 30582), (146, 30672), (148, 30708),

Gene: Olak_30 Start: 28464, Stop: 30719, Start Num: 5

Candidate Starts for Olak_30:

(Start: 5 @28464 has 314 MA's), (13, 28560), (19, 28638), (20, 28665), (27, 28764), (37, 28923), (45, 29103), (48, 29127), (56, 29217), (57, 29223), (59, 29259), (63, 29298), (65, 29307), (67, 29340), (68, 29379), (70, 29424), (74, 29475), (78, 29526), (79, 29535), (82, 29604), (86, 29679), (89, 29724), (91, 29739), (101, 29874), (105, 29928), (106, 29949), (107, 29982), (110, 30027), (113, 30081), (117, 30165), (121, 30186), (123, 30228), (124, 30267), (128, 30327), (146, 30567), (147, 30600), (148, 30603), (150, 30636), (151, 30642), (152, 30705),

Gene: Oline_30 Start: 28329, Stop: 30584, Start Num: 5

Candidate Starts for Oline_30:

(Start: 5 @28329 has 314 MA's), (13, 28425), (19, 28503), (20, 28530), (27, 28629), (37, 28788), (45, 28968), (48, 28992), (57, 29088), (59, 29124), (63, 29163), (65, 29172), (67, 29205), (68, 29244), (70, 29289), (74, 29340), (78, 29391), (79, 29400), (82, 29469), (86, 29544), (89, 29589), (91, 29604), (101, 29739), (105, 29793), (106, 29814), (107, 29847), (110, 29892), (113, 29946), (115, 29973), (117, 30030), (121, 30051), (123, 30093), (124, 30132), (128, 30192), (146, 30432), (147, 30465), (148, 30468), (150, 30501), (151, 30507), (152, 30570),

Gene: Olive_31 Start: 28750, Stop: 31005, Start Num: 5

Candidate Starts for Olive_31:

(Start: 5 @28750 has 314 MA's), (13, 28846), (19, 28924), (20, 28951), (27, 29050), (37, 29209), (45, 29389), (48, 29413), (56, 29503), (57, 29509), (59, 29545), (63, 29584), (65, 29593), (67, 29626), (68, 29665), (70, 29710), (74, 29761), (78, 29812), (79, 29821), (82, 29890), (86, 29965), (89, 30010), (91, 30025), (101, 30160), (105, 30214), (106, 30235), (107, 30268), (110, 30313), (113, 30367), (117, 30451), (121, 30472), (123, 30514), (124, 30553), (128, 30613), (146, 30853), (147, 30886), (148, 30889), (150, 30922), (151, 30928), (152, 30991),

Gene: OliverWalter_31 Start: 28769, Stop: 31027, Start Num: 5

Candidate Starts for OliverWalter_31:

(Start: 5 @28769 has 314 MA's), (13, 28865), (19, 28943), (20, 28970), (27, 29072), (37, 29231), (45, 29411), (48, 29435), (57, 29531), (59, 29567), (63, 29606), (65, 29615), (67, 29648), (68, 29687), (70, 29732), (74, 29783), (78, 29834), (79, 29843), (82, 29912), (86, 29987), (89, 30032), (91, 30047), (101, 30182), (105, 30236), (106, 30257), (107, 30290), (110, 30335), (113, 30389), (117, 30473), (121, 30494), (123, 30536), (124, 30575), (128, 30635), (146, 30875), (147, 30908), (148, 30911), (150, 30944), (151, 30950), (152, 31013),

Gene: Olivio_30 Start: 28468, Stop: 30693, Start Num: 4

Candidate Starts for Olivio_30:

(Start: 4 @28468 has 49 MA's), (Start: 7 @28483 has 1 MA's), (10, 28528), (14, 28585), (21, 28663), (26, 28732), (27, 28744), (30, 28786), (32, 28822), (33, 28849), (34, 28861), (36, 28888), (39, 28978), (43, 29050), (52, 29134), (60, 29242), (61, 29263), (68, 29356), (69, 29371), (77, 29500), (82, 29581), (86, 29656), (88, 29698), (89, 29704), (93, 29740), (96, 29803), (101, 29854), (102, 29866), (105, 29908), (106, 29929), (109, 29983), (110, 30007), (112, 30043), (117, 30139), (119, 30148), (123, 30202), (129, 30310), (130, 30337), (134, 30379), (138, 30451), (146, 30541), (148, 30577),

Gene: Omniscient_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Omniscient_31:

(Start: 5 @28769 has 314 MA's), (13, 28865), (19, 28943), (20, 28970), (27, 29069), (37, 29228), (45, 29408), (48, 29432), (56, 29522), (57, 29528), (59, 29564), (63, 29603), (65, 29612), (67, 29645), (68, 29684), (70, 29729), (74, 29780), (78, 29831), (79, 29840), (82, 29909), (86, 29984), (89, 30029), (91, 30044), (101, 30179), (105, 30233), (106, 30254), (107, 30287), (110, 30332), (113, 30386), (115, 30413), (117, 30470), (121, 30491), (123, 30533), (124, 30572), (128, 30632), (146, 30872), (147, 30905), (148, 30908), (150, 30941), (151, 30947), (152, 31010),

Gene: Oosterbaan_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Oosterbaan_31:

(Start: 5 @28760 has 314 MA's), (13, 28856), (19, 28934), (20, 28961), (27, 29060), (37, 29219), (45, 29399), (48, 29423), (56, 29513), (57, 29519), (59, 29555), (63, 29594), (65, 29603), (67, 29636), (68, 29675), (70, 29720), (74, 29771), (78, 29822), (79, 29831), (82, 29900), (86, 29975), (89, 30020), (91, 30035), (101, 30170), (105, 30224), (106, 30245), (107, 30278), (110, 30323), (113, 30377), (115, 30404), (117, 30461), (121, 30482), (123, 30524), (124, 30563), (128, 30623), (146, 30863), (148, 30899), (150, 30932), (152, 31001),

Gene: OrangeOswald_31 Start: 28613, Stop: 30841, Start Num: 4

Candidate Starts for OrangeOswald_31:

(Start: 4 @28613 has 49 MA's), (Start: 7 @28628 has 1 MA's), (10, 28673), (14, 28730), (21, 28808), (26, 28877), (27, 28889), (30, 28931), (32, 28967), (33, 28994), (34, 29006), (36, 29033), (39, 29123), (43, 29195), (52, 29279), (60, 29387), (61, 29408), (68, 29501), (69, 29516), (77, 29645), (82, 29726), (86, 29801), (88, 29843), (89, 29849), (101, 29999), (102, 30011), (105, 30053), (106, 30074), (109, 30128), (110, 30152), (117, 30287), (119, 30296), (123, 30350), (129, 30458), (130, 30485), (134, 30527), (138, 30599), (146, 30689), (148, 30725),

Gene: Orfeu_30 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for Orfeu_30:

(Start: 5 @28468 has 314 MA's), (13, 28564), (19, 28642), (20, 28669), (27, 28768), (37, 28927), (45, 29107), (48, 29131), (56, 29221), (57, 29227), (59, 29263), (63, 29302), (65, 29311), (67, 29344), (68, 29383), (70, 29428), (74, 29479), (78, 29530), (79, 29539), (82, 29608), (86, 29683), (89, 29728), (91, 29743), (101, 29878), (105, 29932), (106, 29953), (107, 29986), (110, 30031), (113, 30085), (115, 30112), (117, 30169), (121, 30190), (123, 30232), (124, 30271), (128, 30331), (146, 30571), (147, 30604), (148, 30607), (150, 30640), (151, 30646), (152, 30709),

Gene: Orion_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Orion_31:

(Start: 5 @28758 has 314 MA's), (13, 28854), (19, 28932), (20, 28959), (27, 29058), (37, 29217), (45, 29397), (48, 29421), (56, 29511), (57, 29517), (59, 29553), (63, 29592), (65, 29601), (67, 29634), (68, 29673), (70, 29718), (74, 29769), (78, 29820), (79, 29829), (82, 29898), (86, 29973), (89, 30018), (91, 30033), (101, 30168), (105, 30222), (106, 30243), (107, 30276), (110, 30321), (113, 30375), (117, 30459), (121, 30480), (123, 30522), (124, 30561), (128, 30621), (146, 30861), (147, 30894), (148, 30897), (150, 30930), (151, 30936), (152, 30999),

Gene: Orwigg_30 Start: 28456, Stop: 30711, Start Num: 5

Candidate Starts for Orwigg_30:

(Start: 5 @28456 has 314 MA's), (13, 28552), (19, 28630), (20, 28657), (27, 28756), (37, 28915), (45, 29095), (48, 29119), (56, 29209), (57, 29215), (59, 29251), (63, 29290), (65, 29299), (67, 29332), (68, 29371), (70, 29416), (74, 29467), (78, 29518), (79, 29527), (82, 29596), (86, 29671), (89, 29716), (91, 29731), (101, 29866), (105, 29920), (106, 29941), (107, 29974), (110, 30019), (113, 30073), (115, 30100), (117, 30157), (121, 30178), (123, 30220), (124, 30259), (128, 30319), (146, 30559), (147, 30592), (148, 30595), (150, 30628), (151, 30634), (152, 30697),

Gene: PG1_31 Start: 28771, Stop: 31026, Start Num: 5

Candidate Starts for PG1_31:

(Start: 5 @28771 has 314 MA's), (13, 28867), (19, 28945), (20, 28972), (27, 29071), (37, 29230), (45, 29410), (48, 29434), (56, 29524), (57, 29530), (59, 29566), (63, 29605), (65, 29614), (67, 29647), (68, 29686), (70, 29731), (74, 29782), (78, 29833), (79, 29842), (82, 29911), (86, 29986), (89, 30031), (91, 30046), (101, 30181), (105, 30235), (106, 30256), (107, 30289), (110, 30334), (113, 30388), (117, 30472), (121, 30493), (123, 30535), (124, 30574), (128, 30634), (146, 30874), (147, 30907), (148, 30910), (150, 30943), (151, 30949), (152, 31012),

Gene: Pacifista_30 Start: 28462, Stop: 30717, Start Num: 5

Candidate Starts for Pacifista_30:

(Start: 5 @28462 has 314 MA's), (13, 28558), (19, 28636), (20, 28663), (27, 28762), (37, 28921), (45, 29101), (48, 29125), (56, 29215), (57, 29221), (59, 29257), (63, 29296), (65, 29305), (67, 29338), (68, 29377), (70, 29422), (74, 29473), (78, 29524), (79, 29533), (82, 29602), (86, 29677), (89, 29722), (91, 29737), (101, 29872), (105, 29926), (106, 29947), (107, 29980), (110, 30025), (113, 30079), (115, 30106), (117, 30163), (121, 30184), (123, 30226), (124, 30265), (128, 30325), (146, 30565), (147, 30598), (148, 30601), (150, 30634), (151, 30640), (152, 30703),

Gene: PallasAthena_31 Start: 28470, Stop: 30725, Start Num: 5

Candidate Starts for PallasAthena_31:

(Start: 5 @28470 has 314 MA's), (13, 28566), (19, 28644), (20, 28671), (27, 28770), (37, 28929), (45, 29109), (48, 29133), (56, 29223), (57, 29229), (59, 29265), (63, 29304), (65, 29313), (67, 29346), (68, 29385), (70, 29430), (74, 29481), (78, 29532), (79, 29541), (82, 29610), (86, 29685), (89, 29730), (91, 29745), (101, 29880), (105, 29934), (106, 29955), (107, 29988), (110, 30033), (113, 30087), (115, 30114), (117, 30171), (121, 30192), (123, 30234), (124, 30273), (128, 30333), (146, 30573), (147, 30606), (148, 30609), (150, 30642), (151, 30648), (152, 30711),

Gene: Phaedrus_29 Start: 28532, Stop: 30757, Start Num: 4

Candidate Starts for Phaedrus_29:

(Start: 4 @28532 has 49 MA's), (Start: 7 @28547 has 1 MA's), (10, 28592), (14, 28649), (21, 28727), (26, 28796), (27, 28808), (30, 28850), (32, 28886), (33, 28913), (34, 28925), (36, 28952), (39, 29042), (43, 29114), (52, 29198), (60, 29306), (61, 29327), (68, 29420), (69, 29435), (77, 29564), (82, 29645), (86, 29720), (88, 29762), (89, 29768), (93, 29804), (101, 29918), (102, 29930), (105, 29972), (106, 29993), (109, 30047), (110, 30071), (112, 30107), (117, 30203), (119, 30212), (123, 30266), (129, 30374), (130, 30401), (134, 30443), (138, 30515), (145, 30596), (146, 30605), (148, 30641),

Gene: Phamished_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Phamished_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: Phareon_31 Start: 28470, Stop: 30725, Start Num: 5

Candidate Starts for Phareon_31:

(Start: 5 @28470 has 314 MA's), (13, 28566), (19, 28644), (20, 28671), (27, 28770), (37, 28929), (45, 29109), (48, 29133), (56, 29223), (57, 29229), (59, 29265), (63, 29304), (65, 29313), (67, 29346), (68, 29385), (70, 29430), (74, 29481), (78, 29532), (79, 29541), (82, 29610), (86, 29685), (89, 29730), (91, 29745), (101, 29880), (105, 29934), (106, 29955), (107, 29988), (110, 30033), (113, 30087), (115, 30114), (117, 30171), (121, 30192), (123, 30234), (124, 30273), (128, 30333), (146, 30573), (147, 30606), (148, 30609), (150, 30642), (151, 30648), (152, 30711),

Gene: PhatCats2014_31 Start: 28775, Stop: 31030, Start Num: 5

Candidate Starts for PhatCats2014_31:

(Start: 5 @28775 has 314 MA's), (13, 28871), (19, 28949), (20, 28976), (27, 29075), (37, 29234), (45, 29414), (48, 29438), (56, 29528), (57, 29534), (59, 29570), (63, 29609), (65, 29618), (67, 29651), (68, 29690), (70, 29735), (74, 29786), (78, 29837), (79, 29846), (82, 29915), (86, 29990), (89, 30035), (91, 30050), (101, 30185), (105, 30239), (106, 30260), (107, 30293), (110, 30338), (113, 30392), (117, 30476), (121, 30497), (123, 30539), (124, 30578), (128, 30638), (146, 30878), (147, 30911), (148, 30914), (150, 30947), (151, 30953), (152, 31016),

Gene: PhatLouie_31 Start: 28764, Stop: 31019, Start Num: 5

Candidate Starts for PhatLouie_31:

(Start: 5 @28764 has 314 MA's), (13, 28860), (19, 28938), (20, 28965), (27, 29064), (37, 29223), (45, 29403), (48, 29427), (56, 29517), (57, 29523), (59, 29559), (63, 29598), (65, 29607), (67, 29640), (68, 29679), (70, 29724), (74, 29775), (78, 29826), (79, 29835), (82, 29904), (86, 29979), (89, 30024), (91, 30039), (101, 30174), (105, 30228), (106, 30249), (107, 30282), (110, 30327), (113, 30381), (115, 30408), (117, 30465), (121, 30486), (123, 30528), (124, 30567), (128, 30627), (146, 30867), (147, 30900), (148, 30903), (150, 30936), (151, 30942), (152, 31005),

Gene: Phayeta_31 Start: 28480, Stop: 30705, Start Num: 4

Candidate Starts for Phayeta_31:

(Start: 4 @28480 has 49 MA's), (Start: 7 @28495 has 1 MA's), (10, 28540), (14, 28597), (21, 28675), (26, 28744), (27, 28756), (30, 28798), (32, 28834), (33, 28861), (34, 28873), (36, 28900), (39, 28990), (43, 29062), (52, 29146), (60, 29254), (61, 29275), (68, 29368), (69, 29383), (77, 29512), (82, 29593), (86, 29668), (88, 29710), (89, 29716), (93, 29752), (96, 29815), (101, 29866), (102, 29878), (105, 29920), (106, 29941), (109, 29995), (110, 30019), (112, 30055), (117, 30151), (119, 30160), (123, 30214), (129, 30322), (130, 30349), (134, 30391), (138, 30463), (146, 30553), (148, 30589),

Gene: Phelemich_30 Start: 29231, Stop: 31498, Start Num: 5

Candidate Starts for Phelemich_30:

(Start: 5 @29231 has 314 MA's), (13, 29327), (17, 29384), (18, 29402), (22, 29447), (41, 29798), (47, 29894), (49, 29900), (52, 29930), (53, 29954), (55, 29981), (63, 30071), (66, 30086), (75, 30266), (78, 30302), (81, 30338), (82, 30380), (86, 30455), (87, 30476), (89, 30506), (96, 30605), (99, 30629), (101, 30656), (105, 30710), (106, 30731), (107, 30764), (114, 30866), (117, 30944), (119, 30953), (121, 30965), (124, 31046), (125, 31049), (127, 31103), (129, 31115), (131, 31145), (133, 31163), (137, 31229), (141, 31277), (146, 31346), (152, 31484), (153, 31487),

Gene: PhenghisKhan_30 Start: 28370, Stop: 30625, Start Num: 5

Candidate Starts for PhenghisKhan_30:

(Start: 5 @28370 has 314 MA's), (13, 28466), (19, 28544), (20, 28571), (27, 28670), (37, 28829), (45, 29009), (48, 29033), (56, 29123), (57, 29129), (59, 29165), (63, 29204), (65, 29213), (67, 29246), (68, 29285), (70, 29330), (74, 29381), (78, 29432), (79, 29441), (82, 29510), (86, 29585), (89, 29630), (91, 29645), (101, 29780), (105, 29834), (106, 29855), (107, 29888), (110, 29933), (113, 29987), (115, 30014), (117, 30071), (121, 30092), (123, 30134), (124, 30173), (128, 30233), (146, 30473), (147,

30506), (148, 30509), (150, 30542), (151, 30548), (152, 30611),

Gene: Pherdinand_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Pherdinand_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: Phergie_30 Start: 28361, Stop: 30616, Start Num: 5

Candidate Starts for Phergie_30:

(Start: 5 @28361 has 314 MA's), (13, 28457), (19, 28535), (20, 28562), (27, 28661), (37, 28820), (45, 29000), (48, 29024), (56, 29114), (57, 29120), (59, 29156), (63, 29195), (65, 29204), (67, 29237), (68, 29276), (70, 29321), (74, 29372), (78, 29423), (79, 29432), (82, 29501), (86, 29576), (89, 29621), (91, 29636), (101, 29771), (105, 29825), (106, 29846), (107, 29879), (110, 29924), (113, 29978), (115, 30005), (117, 30062), (121, 30083), (123, 30125), (124, 30164), (128, 30224), (146, 30464), (147, 30497), (148, 30500), (150, 30533), (151, 30539), (152, 30602),

Gene: Philly_30 Start: 28467, Stop: 30692, Start Num: 4

Candidate Starts for Philly_30:

(Start: 4 @28467 has 49 MA's), (Start: 7 @28482 has 1 MA's), (10, 28527), (14, 28584), (21, 28662), (26, 28731), (27, 28743), (30, 28785), (32, 28821), (33, 28848), (34, 28860), (36, 28887), (39, 28977), (43, 29049), (52, 29133), (60, 29241), (61, 29262), (68, 29355), (69, 29370), (77, 29499), (82, 29580), (86, 29655), (89, 29703), (96, 29802), (101, 29853), (102, 29865), (105, 29907), (106, 29928), (109, 29982), (110, 30006), (112, 30042), (117, 30138), (119, 30147), (123, 30201), (129, 30309), (130, 30336), (134, 30378), (138, 30450), (146, 30540), (148, 30576),

Gene: Phipps_31 Start: 28736, Stop: 30991, Start Num: 5

Candidate Starts for Phipps_31:

(Start: 5 @28736 has 314 MA's), (13, 28832), (19, 28910), (20, 28937), (27, 29036), (37, 29195), (45, 29375), (48, 29399), (56, 29489), (57, 29495), (59, 29531), (63, 29570), (65, 29579), (67, 29612), (68, 29651), (70, 29696), (74, 29747), (78, 29798), (79, 29807), (82, 29876), (86, 29951), (89, 29996), (91, 30011), (101, 30146), (105, 30200), (106, 30221), (107, 30254), (110, 30299), (113, 30353), (115, 30380), (117, 30437), (121, 30458), (123, 30500), (124, 30539), (128, 30599), (146, 30839), (147, 30872), (148, 30875), (150, 30908), (151, 30914), (152, 30977),

Gene: Phleuron_30 Start: 28367, Stop: 30622, Start Num: 5

Candidate Starts for Phleuron_30:

(Start: 5 @28367 has 314 MA's), (13, 28463), (19, 28541), (20, 28568), (27, 28667), (37, 28826), (45, 29006), (48, 29030), (57, 29126), (59, 29162), (63, 29201), (65, 29210), (67, 29243), (68, 29282), (70, 29327), (74, 29378), (78, 29429), (79, 29438), (82, 29507), (86, 29582), (89, 29627), (91, 29642), (101, 29777), (105, 29831), (106, 29852), (107, 29885), (110, 29930), (113, 29984), (115, 30011), (117, 30068), (121, 30089), (123, 30131), (124, 30170), (128, 30230), (146, 30470), (147, 30503), (148, 30506), (150, 30539), (151, 30545), (152, 30608),

Gene: Phlyer_31 Start: 29348, Stop: 31576, Start Num: 4

Candidate Starts for Phlyer_31:

(Start: 4 @29348 has 49 MA's), (Start: 7 @29363 has 1 MA's), (10, 29408), (14, 29465), (21, 29543), (26, 29612), (27, 29624), (30, 29666), (32, 29702), (33, 29729), (34, 29741), (36, 29768), (39, 29858), (43, 29930), (52, 30014), (60, 30122), (61, 30143), (68, 30236), (69, 30251), (77, 30380), (82, 30461), (86, 30536), (88, 30578), (89, 30584), (93, 30620), (101, 30734), (102, 30746), (105, 30788), (106,

30809), (109, 30863), (110, 30887), (112, 30923), (117, 31022), (119, 31031), (123, 31085), (129, 31193), (130, 31220), (134, 31262), (138, 31334), (146, 31424), (148, 31460),

Gene: PhrankReynolds_30 Start: 28367, Stop: 30622, Start Num: 5

Candidate Starts for PhrankReynolds_30:

(Start: 5 @28367 has 314 MA's), (13, 28463), (19, 28541), (20, 28568), (27, 28667), (37, 28826), (45, 29006), (48, 29030), (56, 29120), (57, 29126), (59, 29162), (63, 29201), (65, 29210), (67, 29243), (68, 29282), (70, 29327), (74, 29378), (78, 29429), (79, 29438), (82, 29507), (86, 29582), (89, 29627), (91, 29642), (101, 29777), (105, 29831), (106, 29852), (107, 29885), (110, 29930), (113, 29984), (115, 30011), (117, 30068), (121, 30089), (123, 30131), (124, 30170), (128, 30230), (146, 30470), (147, 30503), (148, 30506), (150, 30539), (151, 30545), (152, 30608),

Gene: PhrodoBaggins_30 Start: 28754, Stop: 31009, Start Num: 5

Candidate Starts for PhrodoBaggins_30:

(Start: 5 @28754 has 314 MA's), (13, 28850), (19, 28928), (20, 28955), (27, 29054), (37, 29213), (45, 29393), (48, 29417), (56, 29507), (57, 29513), (59, 29549), (63, 29588), (65, 29597), (67, 29630), (68, 29669), (70, 29714), (74, 29765), (78, 29816), (79, 29825), (82, 29894), (86, 29969), (89, 30014), (91, 30029), (101, 30164), (105, 30218), (106, 30239), (107, 30272), (110, 30317), (113, 30371), (115, 30398), (117, 30455), (121, 30476), (123, 30518), (124, 30557), (128, 30617), (146, 30857), (147, 30890), (148, 30893), (150, 30926), (151, 30932), (152, 30995),

Gene: Phunky_31 Start: 28767, Stop: 31022, Start Num: 5

Candidate Starts for Phunky_31:

(Start: 5 @28767 has 314 MA's), (13, 28863), (19, 28941), (20, 28968), (27, 29067), (37, 29226), (45, 29406), (48, 29430), (56, 29520), (57, 29526), (59, 29562), (63, 29601), (65, 29610), (67, 29643), (68, 29682), (70, 29727), (74, 29778), (78, 29829), (79, 29838), (82, 29907), (86, 29982), (89, 30027), (91, 30042), (101, 30177), (105, 30231), (106, 30252), (107, 30285), (110, 30330), (113, 30384), (115, 30411), (117, 30468), (121, 30489), (123, 30531), (124, 30570), (128, 30630), (146, 30870), (147, 30903), (148, 30906), (150, 30939), (151, 30945), (152, 31008),

Gene: Piglet_0030 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Piglet_0030:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: PinheadLarry_31 Start: 28480, Stop: 30735, Start Num: 5

Candidate Starts for PinheadLarry_31:

(Start: 5 @28480 has 314 MA's), (13, 28576), (19, 28654), (20, 28681), (27, 28780), (37, 28939), (45, 29119), (48, 29143), (56, 29233), (57, 29239), (59, 29275), (63, 29314), (65, 29323), (67, 29356), (68, 29395), (70, 29440), (74, 29491), (78, 29542), (79, 29551), (82, 29620), (86, 29695), (89, 29740), (91, 29755), (101, 29890), (105, 29944), (106, 29965), (107, 29998), (110, 30043), (113, 30097), (115, 30124), (117, 30181), (121, 30202), (123, 30244), (124, 30283), (128, 30343), (146, 30583), (148, 30619), (150, 30652), (152, 30721),

Gene: Pinkman_30 Start: 28323, Stop: 30578, Start Num: 5

Candidate Starts for Pinkman_30:

(Start: 5 @28323 has 314 MA's), (13, 28419), (19, 28497), (20, 28524), (27, 28623), (37, 28782), (45, 28962), (48, 28986), (57, 29082), (59, 29118), (63, 29157), (65, 29166), (67, 29199), (68, 29238), (70, 29283), (74, 29334), (78, 29385), (79, 29394), (82, 29463), (86, 29538), (89, 29583), (91, 29598), (101,

29733), (105, 29787), (106, 29808), (107, 29841), (110, 29886), (113, 29940), (115, 29967), (117, 30024), (121, 30045), (123, 30087), (124, 30126), (128, 30186), (146, 30426), (148, 30462), (150, 30495), (152, 30564),

Gene: Pipefish_32 Start: 30005, Stop: 32233, Start Num: 4

Candidate Starts for Pipefish_32:

(Start: 4 @30005 has 49 MA's), (10, 30068), (14, 30125), (21, 30203), (26, 30272), (27, 30284), (30, 30326), (32, 30362), (34, 30401), (36, 30428), (39, 30518), (40, 30542), (43, 30590), (52, 30674), (60, 30782), (61, 30803), (68, 30896), (69, 30911), (77, 31040), (82, 31121), (86, 31196), (88, 31238), (89, 31244), (96, 31343), (101, 31394), (102, 31406), (105, 31448), (106, 31469), (109, 31523), (110, 31547), (112, 31583), (117, 31679), (119, 31688), (123, 31742), (129, 31850), (130, 31877), (134, 31919), (138, 31991), (146, 32081), (148, 32117),

Gene: Pipsqueak_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for Pipsqueak_31:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29065), (37, 29224), (45, 29404), (48, 29428), (56, 29518), (57, 29524), (59, 29560), (63, 29599), (65, 29608), (67, 29641), (68, 29680), (70, 29725), (74, 29776), (78, 29827), (79, 29836), (82, 29905), (86, 29980), (89, 30025), (91, 30040), (101, 30175), (105, 30229), (106, 30250), (107, 30283), (110, 30328), (113, 30382), (115, 30409), (117, 30466), (121, 30487), (123, 30529), (124, 30568), (128, 30628), (146, 30868), (148, 30904), (150, 30937), (152, 31006),

Gene: Placalicious_30 Start: 28458, Stop: 30713, Start Num: 5

Candidate Starts for Placalicious_30:

(Start: 5 @28458 has 314 MA's), (13, 28554), (19, 28632), (20, 28659), (27, 28758), (37, 28917), (45, 29097), (48, 29121), (56, 29211), (57, 29217), (59, 29253), (63, 29292), (65, 29301), (67, 29334), (68, 29373), (70, 29418), (74, 29469), (78, 29520), (79, 29529), (82, 29598), (86, 29673), (89, 29718), (91, 29733), (101, 29868), (105, 29922), (106, 29943), (107, 29976), (110, 30021), (113, 30075), (115, 30102), (117, 30159), (121, 30180), (123, 30222), (124, 30261), (128, 30321), (146, 30561), (147, 30594), (148, 30597), (150, 30630), (151, 30636), (152, 30699),

Gene: Plata_31 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Plata_31:

(Start: 5 @28479 has 314 MA's), (13, 28575), (19, 28653), (20, 28680), (27, 28779), (37, 28938), (44, 29094), (45, 29118), (48, 29142), (57, 29238), (59, 29274), (63, 29313), (65, 29322), (67, 29355), (68, 29394), (70, 29439), (74, 29490), (78, 29541), (79, 29550), (82, 29619), (86, 29694), (89, 29739), (91, 29754), (101, 29889), (105, 29943), (106, 29964), (107, 29997), (110, 30042), (113, 30096), (115, 30123), (117, 30180), (121, 30201), (123, 30243), (124, 30282), (128, 30342), (146, 30582), (148, 30618), (150, 30651), (152, 30720),

Gene: Plmatters_31 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for Plmatters_31:

(Start: 5 @28763 has 314 MA's), (13, 28859), (19, 28937), (20, 28964), (27, 29063), (37, 29222), (45, 29402), (48, 29426), (56, 29516), (57, 29522), (59, 29558), (63, 29597), (65, 29606), (67, 29639), (68, 29678), (70, 29723), (74, 29774), (78, 29825), (79, 29834), (82, 29903), (86, 29978), (89, 30023), (91, 30038), (101, 30173), (105, 30227), (106, 30248), (107, 30281), (110, 30326), (113, 30380), (115, 30407), (117, 30464), (121, 30485), (123, 30527), (124, 30566), (128, 30626), (146, 30866), (147, 30899), (148, 30902), (150, 30935), (151, 30941), (152, 31004),

Gene: Podrick_31 Start: 28755, Stop: 31010, Start Num: 5

Candidate Starts for Podrick_31:

(Start: 5 @28755 has 314 MA's), (13, 28851), (19, 28929), (20, 28956), (27, 29055), (37, 29214), (45, 29394), (48, 29418), (56, 29508), (57, 29514), (59, 29550), (63, 29589), (65, 29598), (67, 29631), (68,

29670), (70, 29715), (74, 29766), (78, 29817), (79, 29826), (82, 29895), (86, 29970), (89, 30015), (91, 30030), (101, 30165), (105, 30219), (106, 30240), (107, 30273), (110, 30318), (113, 30372), (115, 30399), (117, 30456), (121, 30477), (123, 30519), (124, 30558), (128, 30618), (146, 30858), (147, 30891), (148, 30894), (150, 30927), (151, 30933), (152, 30996),

Gene: Pops_31 Start: 28775, Stop: 31033, Start Num: 5

Candidate Starts for Pops_31:

(Start: 5 @28775 has 314 MA's), (13, 28871), (19, 28949), (20, 28976), (27, 29078), (37, 29237), (45, 29417), (48, 29441), (57, 29537), (59, 29573), (63, 29612), (65, 29621), (67, 29654), (68, 29693), (70, 29738), (74, 29789), (78, 29840), (79, 29849), (82, 29918), (86, 29993), (89, 30038), (91, 30053), (101, 30188), (105, 30242), (106, 30263), (107, 30296), (110, 30341), (113, 30395), (115, 30422), (117, 30479), (121, 30500), (123, 30542), (124, 30581), (128, 30641), (146, 30881), (148, 30917), (150, 30950), (152, 31019),

Gene: Poster_27 Start: 27941, Stop: 30238, Start Num: 5

Candidate Starts for Poster_27:

(Start: 5 @27941 has 314 MA's), (13, 28040), (20, 28145), (24, 28181), (27, 28244), (31, 28325), (35, 28391), (37, 28403), (41, 28508), (42, 28547), (46, 28598), (48, 28607), (54, 28688), (55, 28691), (59, 28754), (64, 28796), (66, 28808), (71, 28931), (72, 28955), (77, 29018), (80, 29048), (81, 29057), (83, 29129), (84, 29150), (86, 29186), (87, 29207), (93, 29273), (94, 29285), (96, 29336), (97, 29339), (98, 29357), (100, 29381), (103, 29408), (105, 29441), (106, 29462), (107, 29495), (110, 29540), (118, 29681), (119, 29684), (121, 29696), (125, 29780), (134, 29915), (135, 29939), (139, 30002), (142, 30032), (143, 30038), (146, 30086), (147, 30119), (148, 30122), (152, 30224), (153, 30227),

Gene: Potter_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Potter_30:

(Start: 5 @28479 has 314 MA's), (13, 28575), (19, 28653), (20, 28680), (27, 28779), (37, 28938), (45, 29118), (48, 29142), (56, 29232), (57, 29238), (59, 29274), (63, 29313), (65, 29322), (67, 29355), (68, 29394), (70, 29439), (74, 29490), (78, 29541), (79, 29550), (82, 29619), (86, 29694), (89, 29739), (91, 29754), (101, 29889), (105, 29943), (106, 29964), (107, 29997), (110, 30042), (113, 30096), (115, 30123), (117, 30180), (121, 30201), (123, 30243), (124, 30282), (128, 30342), (146, 30582), (147, 30615), (148, 30618), (150, 30651), (151, 30657), (152, 30720),

Gene: Prickles_31 Start: 28755, Stop: 31010, Start Num: 5

Candidate Starts for Prickles_31:

(Start: 5 @28755 has 314 MA's), (13, 28851), (19, 28929), (20, 28956), (27, 29055), (37, 29214), (45, 29394), (48, 29418), (57, 29514), (59, 29550), (63, 29589), (65, 29598), (67, 29631), (68, 29670), (70, 29715), (74, 29766), (78, 29817), (79, 29826), (82, 29895), (86, 29970), (89, 30015), (91, 30030), (101, 30165), (105, 30219), (106, 30240), (107, 30273), (110, 30318), (113, 30372), (115, 30399), (117, 30456), (121, 30477), (123, 30519), (124, 30558), (128, 30618), (146, 30858), (148, 30894), (150, 30927), (152, 30996),

Gene: Prince_28 Start: 29124, Stop: 31421, Start Num: 5

Candidate Starts for Prince_28:

(Start: 1 @28437 has 1 MA's), (2, 28584), (Start: 5 @29124 has 314 MA's), (13, 29223), (20, 29328), (24, 29364), (27, 29427), (31, 29508), (35, 29574), (37, 29586), (41, 29691), (42, 29730), (46, 29781), (48, 29790), (54, 29871), (55, 29874), (59, 29937), (64, 29979), (66, 29991), (71, 30114), (72, 30138), (77, 30201), (83, 30312), (84, 30333), (86, 30369), (87, 30390), (93, 30456), (94, 30468), (96, 30519), (97, 30522), (98, 30540), (100, 30564), (103, 30591), (105, 30624), (106, 30645), (107, 30678), (110, 30723), (118, 30864), (119, 30867), (120, 30870), (121, 30879), (125, 30963), (133, 31077), (134, 31098), (135, 31122), (139, 31185), (142, 31215), (143, 31221), (146, 31269), (147, 31302), (148, 31305), (152, 31407), (153, 31410),

Gene: ProfessorX_31 Start: 28750, Stop: 31005, Start Num: 5

Candidate Starts for ProfessorX_31:

(Start: 5 @28750 has 314 MA's), (13, 28846), (19, 28924), (20, 28951), (27, 29050), (37, 29209), (45, 29389), (48, 29413), (56, 29503), (57, 29509), (59, 29545), (63, 29584), (65, 29593), (67, 29626), (68, 29665), (70, 29710), (74, 29761), (78, 29812), (79, 29821), (82, 29890), (86, 29965), (89, 30010), (91, 30025), (101, 30160), (105, 30214), (106, 30235), (107, 30268), (110, 30313), (113, 30367), (117, 30451), (121, 30472), (123, 30514), (124, 30553), (128, 30613), (146, 30853), (147, 30886), (148, 30889), (150, 30922), (151, 30928), (152, 30991),

Gene: Puhltonio_31 Start: 28770, Stop: 31025, Start Num: 5

Candidate Starts for Puhltonio_31:

(Start: 5 @28770 has 314 MA's), (13, 28866), (19, 28944), (20, 28971), (27, 29070), (37, 29229), (45, 29409), (48, 29433), (56, 29523), (57, 29529), (59, 29565), (63, 29604), (65, 29613), (67, 29646), (68, 29685), (70, 29730), (74, 29781), (78, 29832), (79, 29841), (82, 29910), (86, 29985), (89, 30030), (91, 30045), (101, 30180), (105, 30234), (106, 30255), (107, 30288), (110, 30333), (113, 30387), (115, 30414), (117, 30471), (121, 30492), (123, 30534), (124, 30573), (128, 30633), (146, 30873), (147, 30906), (148, 30909), (150, 30942), (151, 30948), (152, 31011),

Gene: QueenBeane_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for QueenBeane_31:

(Start: 5 @28761 has 314 MA's), (13, 28857), (19, 28935), (20, 28962), (27, 29061), (37, 29220), (45, 29400), (48, 29424), (56, 29514), (57, 29520), (59, 29556), (63, 29595), (65, 29604), (67, 29637), (68, 29676), (70, 29721), (74, 29772), (78, 29823), (79, 29832), (82, 29901), (86, 29976), (89, 30021), (91, 30036), (101, 30171), (105, 30225), (106, 30246), (107, 30279), (110, 30324), (113, 30378), (115, 30405), (117, 30462), (121, 30483), (123, 30525), (124, 30564), (128, 30624), (146, 30864), (147, 30897), (148, 30900), (150, 30933), (151, 30939), (152, 31002),

Gene: QueenPie_27 Start: 29065, Stop: 31362, Start Num: 5

Candidate Starts for QueenPie_27:

(Start: 1 @28378 has 1 MA's), (2, 28525), (3, 28936), (Start: 5 @29065 has 314 MA's), (13, 29164), (14, 29182), (20, 29269), (24, 29305), (27, 29368), (31, 29449), (35, 29515), (41, 29632), (42, 29671), (48, 29731), (54, 29812), (55, 29815), (59, 29878), (64, 29920), (65, 29926), (66, 29932), (71, 30055), (72, 30079), (77, 30142), (81, 30181), (83, 30253), (84, 30274), (86, 30310), (87, 30331), (93, 30397), (94, 30409), (96, 30460), (97, 30463), (98, 30481), (100, 30505), (103, 30532), (105, 30565), (106, 30586), (107, 30619), (110, 30664), (118, 30805), (119, 30808), (121, 30820), (125, 30904), (134, 31039), (135, 31063), (139, 31126), (142, 31156), (143, 31162), (146, 31210), (147, 31243), (148, 31246), (152, 31348), (153, 31351),

Gene: Quisquiliae_31 Start: 28789, Stop: 31044, Start Num: 5

Candidate Starts for Quisquiliae_31:

(Start: 5 @28789 has 314 MA's), (13, 28885), (19, 28963), (20, 28990), (27, 29089), (37, 29248), (45, 29428), (48, 29452), (56, 29542), (57, 29548), (59, 29584), (63, 29623), (65, 29632), (67, 29665), (68, 29704), (70, 29749), (74, 29800), (78, 29851), (79, 29860), (82, 29929), (86, 30004), (89, 30049), (91, 30064), (101, 30199), (105, 30253), (106, 30274), (107, 30307), (110, 30352), (113, 30406), (115, 30433), (117, 30490), (121, 30511), (123, 30553), (124, 30592), (128, 30652), (146, 30892), (147, 30925), (148, 30928), (150, 30961), (151, 30967), (152, 31030),

Gene: RagingRooster_31 Start: 28614, Stop: 30842, Start Num: 4

Candidate Starts for RagingRooster_31:

(Start: 4 @28614 has 49 MA's), (Start: 7 @28629 has 1 MA's), (10, 28674), (14, 28731), (21, 28809), (26, 28878), (27, 28890), (30, 28932), (32, 28968), (33, 28995), (34, 29007), (36, 29034), (39, 29124), (43, 29196), (52, 29280), (60, 29388), (61, 29409), (68, 29502), (69, 29517), (77, 29646), (82, 29727), (86, 29802), (88, 29844), (89, 29850), (93, 29886), (101, 30000), (102, 30012), (105, 30054), (106,

30075), (109, 30129), (110, 30153), (112, 30189), (117, 30288), (119, 30297), (123, 30351), (129, 30459), (130, 30486), (134, 30528), (138, 30600), (146, 30690), (148, 30726),

Gene: RawrgerThat_28 Start: 28967, Stop: 31264, Start Num: 5

Candidate Starts for RawrgerThat_28:

(Start: 5 @28967 has 314 MA's), (13, 29066), (14, 29084), (24, 29207), (27, 29270), (31, 29351), (35, 29417), (41, 29534), (42, 29573), (46, 29624), (48, 29633), (53, 29690), (54, 29714), (55, 29717), (59, 29780), (64, 29822), (71, 29957), (72, 29981), (77, 30044), (83, 30155), (84, 30176), (86, 30212), (87, 30233), (93, 30299), (94, 30311), (96, 30362), (97, 30365), (98, 30383), (100, 30407), (103, 30434), (105, 30467), (106, 30488), (107, 30521), (110, 30566), (118, 30707), (119, 30710), (121, 30722), (125, 30806), (133, 30920), (134, 30941), (135, 30965), (139, 31028), (142, 31058), (143, 31064), (146, 31112), (147, 31145), (148, 31148), (152, 31250), (153, 31253),

Gene: Reccee_31 Start: 29161, Stop: 31437, Start Num: 5

Candidate Starts for Reccee_31:

(Start: 5 @29161 has 314 MA's), (6, 29167), (8, 29209), (11, 29230), (12, 29239), (15, 29293), (17, 29314), (18, 29332), (19, 29335), (22, 29377), (24, 29395), (27, 29464), (28, 29500), (37, 29623), (41, 29728), (53, 29884), (55, 29911), (58, 29962), (63, 30013), (66, 30028), (78, 30241), (81, 30277), (82, 30319), (86, 30394), (96, 30544), (99, 30568), (101, 30595), (106, 30670), (109, 30724), (117, 30883), (119, 30892), (121, 30904), (124, 30985), (125, 30988), (129, 31054), (133, 31102), (137, 31168), (146, 31285),

Gene: RedMaple_30 Start: 28765, Stop: 31023, Start Num: 5

Candidate Starts for RedMaple_30:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29068), (37, 29227), (45, 29407), (48, 29431), (57, 29527), (59, 29563), (63, 29602), (65, 29611), (67, 29644), (68, 29683), (70, 29728), (74, 29779), (78, 29830), (79, 29839), (82, 29908), (86, 29983), (89, 30028), (91, 30043), (101, 30178), (105, 30232), (106, 30253), (107, 30286), (110, 30331), (113, 30385), (115, 30412), (117, 30469), (121, 30490), (123, 30532), (124, 30571), (128, 30631), (146, 30871), (148, 30907), (150, 30940), (152, 31009),

Gene: RedRaider89_31 Start: 28988, Stop: 31243, Start Num: 5

Candidate Starts for RedRaider89_31:

(Start: 5 @28988 has 314 MA's), (13, 29084), (19, 29162), (20, 29189), (27, 29288), (37, 29447), (45, 29627), (48, 29651), (57, 29747), (59, 29783), (63, 29822), (65, 29831), (67, 29864), (68, 29903), (70, 29948), (74, 29999), (78, 30050), (79, 30059), (82, 30128), (86, 30203), (89, 30248), (91, 30263), (101, 30398), (105, 30452), (106, 30473), (107, 30506), (110, 30551), (113, 30605), (115, 30632), (117, 30689), (121, 30710), (123, 30752), (124, 30791), (128, 30851), (146, 31091), (148, 31127), (150, 31160), (152, 31229),

Gene: Renkei_27 Start: 27972, Stop: 30269, Start Num: 5

Candidate Starts for Renkei_27:

(Start: 5 @27972 has 314 MA's), (13, 28071), (20, 28176), (24, 28212), (27, 28275), (31, 28356), (35, 28422), (37, 28434), (41, 28539), (42, 28578), (46, 28629), (48, 28638), (54, 28719), (55, 28722), (59, 28785), (64, 28827), (66, 28839), (71, 28962), (72, 28986), (77, 29049), (81, 29088), (83, 29160), (84, 29181), (86, 29217), (87, 29238), (93, 29304), (94, 29316), (96, 29367), (97, 29370), (98, 29388), (100, 29412), (103, 29439), (105, 29472), (106, 29493), (107, 29526), (110, 29571), (118, 29712), (119, 29715), (121, 29727), (125, 29811), (134, 29946), (135, 29970), (139, 30033), (142, 30063), (143, 30069), (146, 30117), (147, 30150), (148, 30153), (152, 30255), (153, 30258),

Gene: Reprobate_30 Start: 29236, Stop: 31503, Start Num: 5

Candidate Starts for Reprobate_30:

(Start: 5 @29236 has 314 MA's), (13, 29332), (17, 29389), (18, 29407), (22, 29452), (41, 29803), (47, 29899), (49, 29905), (52, 29935), (53, 29959), (55, 29986), (63, 30076), (66, 30091), (75, 30271), (78, 30307), (81, 30343), (82, 30385), (86, 30460), (87, 30481), (89, 30511), (96, 30610), (99, 30634), (101, 30661), (105, 30715), (106, 30736), (107, 30769), (114, 30871), (117, 30949), (119, 30958), (121, 30970), (124, 31051), (125, 31054), (127, 31108), (129, 31120), (131, 31150), (133, 31168), (137, 31234), (141, 31282), (146, 31351), (152, 31489), (153, 31492),

Gene: Rich_29 Start: 28722, Stop: 30989, Start Num: 5

Candidate Starts for Rich_29:

(Start: 5 @28722 has 314 MA's), (6, 28728), (10, 28779), (12, 28800), (15, 28854), (16, 28866), (17, 28875), (18, 28893), (24, 28956), (41, 29289), (49, 29391), (53, 29445), (63, 29565), (66, 29580), (67, 29607), (78, 29793), (81, 29829), (82, 29871), (87, 29967), (89, 29997), (96, 30096), (101, 30147), (109, 30276), (110, 30300), (116, 30414), (117, 30435), (123, 30498), (124, 30537), (125, 30540), (129, 30606), (131, 30636), (133, 30654), (137, 30720), (138, 30747), (146, 30837), (150, 30906), (152, 30975), (153, 30978),

Gene: Ricotta_30 Start: 28488, Stop: 30743, Start Num: 5

Candidate Starts for Ricotta_30:

(Start: 5 @28488 has 314 MA's), (13, 28584), (19, 28662), (20, 28689), (27, 28788), (37, 28947), (45, 29127), (48, 29151), (56, 29241), (57, 29247), (59, 29283), (63, 29322), (65, 29331), (67, 29364), (68, 29403), (70, 29448), (74, 29499), (78, 29550), (79, 29559), (82, 29628), (86, 29703), (89, 29748), (91, 29763), (101, 29898), (105, 29952), (106, 29973), (107, 30006), (110, 30051), (113, 30105), (115, 30132), (117, 30189), (121, 30210), (123, 30252), (124, 30291), (128, 30351), (146, 30591), (148, 30627), (150, 30660), (152, 30729),

Gene: Riggan_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Riggan_31:

(Start: 5 @28747 has 314 MA's), (13, 28843), (19, 28921), (20, 28948), (27, 29047), (37, 29206), (45, 29386), (48, 29410), (56, 29500), (57, 29506), (59, 29542), (63, 29581), (65, 29590), (67, 29623), (68, 29662), (70, 29707), (74, 29758), (78, 29809), (79, 29818), (82, 29887), (86, 29962), (89, 30007), (91, 30022), (101, 30157), (105, 30211), (106, 30232), (107, 30265), (110, 30310), (113, 30364), (115, 30391), (117, 30448), (121, 30469), (123, 30511), (124, 30550), (128, 30610), (146, 30850), (147, 30883), (148, 30886), (150, 30919), (151, 30925), (152, 30988),

Gene: Rimu_31 Start: 28496, Stop: 30751, Start Num: 5

Candidate Starts for Rimu_31:

(Start: 5 @28496 has 314 MA's), (13, 28592), (19, 28670), (20, 28697), (27, 28796), (37, 28955), (45, 29135), (48, 29159), (57, 29255), (59, 29291), (63, 29330), (65, 29339), (67, 29372), (68, 29411), (70, 29456), (74, 29507), (78, 29558), (79, 29567), (82, 29636), (86, 29711), (89, 29756), (91, 29771), (101, 29906), (105, 29960), (106, 29981), (107, 30014), (110, 30059), (113, 30113), (115, 30140), (117, 30197), (121, 30218), (123, 30260), (124, 30299), (128, 30359), (146, 30599), (148, 30635), (150, 30668), (152, 30737),

Gene: Rita130_30 Start: 28981, Stop: 31257, Start Num: 5

Candidate Starts for Rita130_30:

(Start: 5 @28981 has 314 MA's), (6, 28987), (8, 29029), (11, 29050), (12, 29059), (15, 29113), (17, 29134), (18, 29152), (19, 29155), (22, 29197), (23, 29203), (24, 29215), (27, 29284), (28, 29320), (37, 29443), (41, 29548), (53, 29704), (55, 29731), (58, 29782), (63, 29833), (66, 29848), (78, 30061), (81, 30097), (82, 30139), (86, 30214), (96, 30364), (99, 30388), (101, 30415), (106, 30490), (109, 30544), (117, 30703), (119, 30712), (121, 30724), (124, 30805), (125, 30808), (129, 30874), (133, 30922), (137, 30988), (146, 31105),

Gene: Rita1961_31 Start: 28615, Stop: 30825, Start Num: 7

Candidate Starts for Rita1961_31:

(Start: 4 @28600 has 49 MA's), (Start: 7 @28615 has 1 MA's), (10, 28660), (14, 28717), (21, 28795), (26, 28864), (27, 28876), (30, 28918), (32, 28954), (33, 28981), (34, 28993), (36, 29020), (39, 29110), (43, 29182), (52, 29266), (60, 29374), (61, 29395), (68, 29488), (69, 29503), (77, 29632), (82, 29713), (86, 29788), (88, 29830), (89, 29836), (93, 29872), (101, 29986), (102, 29998), (105, 30040), (106, 30061), (109, 30115), (110, 30139), (112, 30175), (117, 30271), (119, 30280), (123, 30334), (129, 30442), (130, 30469), (134, 30511), (138, 30583), (146, 30673), (148, 30709),

Gene: Riverton_30 Start: 28765, Stop: 31023, Start Num: 5

Candidate Starts for Riverton_30:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29068), (37, 29227), (45, 29407), (48, 29431), (57, 29527), (59, 29563), (63, 29602), (65, 29611), (67, 29644), (68, 29683), (70, 29728), (74, 29779), (78, 29830), (79, 29839), (82, 29908), (86, 29983), (89, 30028), (91, 30043), (101, 30178), (105, 30232), (106, 30253), (107, 30286), (110, 30331), (113, 30385), (115, 30412), (117, 30469), (121, 30490), (123, 30532), (124, 30571), (128, 30631), (146, 30871), (147, 30904), (148, 30907), (150, 30940), (151, 30946), (152, 31009),

Gene: Robyn_30 Start: 28329, Stop: 30587, Start Num: 5

Candidate Starts for Robyn_30:

(Start: 5 @28329 has 314 MA's), (13, 28425), (19, 28503), (20, 28530), (27, 28632), (37, 28791), (45, 28971), (48, 28995), (57, 29091), (59, 29127), (63, 29166), (67, 29208), (68, 29247), (70, 29292), (74, 29343), (78, 29394), (79, 29403), (82, 29472), (86, 29547), (89, 29592), (91, 29607), (101, 29742), (105, 29796), (106, 29817), (107, 29850), (110, 29895), (113, 29949), (117, 30033), (121, 30054), (123, 30096), (124, 30135), (128, 30195), (146, 30435), (147, 30468), (148, 30471), (150, 30504), (151, 30510), (152, 30573),

Gene: Roliet_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for Roliet_31:

(Start: 5 @28757 has 314 MA's), (13, 28853), (19, 28931), (20, 28958), (27, 29057), (37, 29216), (45, 29396), (48, 29420), (57, 29516), (59, 29552), (63, 29591), (65, 29600), (67, 29633), (68, 29672), (70, 29717), (74, 29768), (78, 29819), (79, 29828), (82, 29897), (86, 29972), (89, 30017), (91, 30032), (101, 30167), (105, 30221), (106, 30242), (107, 30275), (110, 30320), (113, 30374), (115, 30401), (117, 30458), (121, 30479), (123, 30521), (124, 30560), (128, 30620), (146, 30860), (148, 30896), (150, 30929), (152, 30998),

Gene: RomaT_31 Start: 29390, Stop: 31615, Start Num: 4

Candidate Starts for RomaT_31:

(Start: 4 @29390 has 49 MA's), (Start: 7 @29405 has 1 MA's), (10, 29450), (14, 29507), (21, 29585), (26, 29654), (27, 29666), (30, 29708), (32, 29744), (33, 29771), (34, 29783), (36, 29810), (39, 29900), (43, 29972), (52, 30056), (60, 30164), (61, 30185), (68, 30278), (69, 30293), (77, 30422), (82, 30503), (86, 30578), (88, 30620), (89, 30626), (93, 30662), (96, 30725), (101, 30776), (102, 30788), (105, 30830), (106, 30851), (109, 30905), (110, 30929), (112, 30965), (117, 31061), (119, 31070), (123, 31124), (129, 31232), (130, 31259), (134, 31301), (138, 31373), (146, 31463), (148, 31499),

Gene: Roscoe_32 Start: 28995, Stop: 31250, Start Num: 5

Candidate Starts for Roscoe_32:

(Start: 5 @28995 has 314 MA's), (13, 29091), (19, 29169), (20, 29196), (27, 29295), (37, 29454), (45, 29634), (48, 29658), (56, 29748), (57, 29754), (59, 29790), (63, 29829), (65, 29838), (67, 29871), (68, 29910), (70, 29955), (74, 30006), (78, 30057), (79, 30066), (82, 30135), (86, 30210), (89, 30255), (91, 30270), (101, 30405), (104, 30456), (105, 30459), (106, 30480), (107, 30513), (110, 30558), (113, 30612), (117, 30696), (121, 30717), (123, 30759), (124, 30798), (128, 30858), (146, 31098), (147, 31131), (148, 31134), (150, 31167), (151, 31173), (152, 31236),

Gene: Roy17_31 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for Roy17_31:

(Start: 5 @28461 has 314 MA's), (13, 28557), (19, 28635), (20, 28662), (27, 28761), (37, 28920), (45, 29100), (48, 29124), (56, 29214), (57, 29220), (59, 29256), (63, 29295), (65, 29304), (67, 29337), (68, 29376), (70, 29421), (74, 29472), (78, 29523), (79, 29532), (82, 29601), (86, 29676), (89, 29721), (91, 29736), (101, 29871), (105, 29925), (106, 29946), (107, 29979), (110, 30024), (113, 30078), (117, 30162), (121, 30183), (123, 30225), (124, 30264), (128, 30324), (146, 30564), (147, 30597), (148, 30600), (150, 30633), (151, 30639), (152, 30702),

Gene: SDcharge11_31 Start: 28735, Stop: 30990, Start Num: 5

Candidate Starts for SDcharge11_31:

(Start: 5 @28735 has 314 MA's), (13, 28831), (19, 28909), (20, 28936), (27, 29035), (37, 29194), (45, 29374), (48, 29398), (57, 29494), (59, 29530), (63, 29569), (65, 29578), (67, 29611), (68, 29650), (70, 29695), (74, 29746), (78, 29797), (79, 29806), (82, 29875), (86, 29950), (89, 29995), (91, 30010), (101, 30145), (105, 30199), (106, 30220), (107, 30253), (110, 30298), (113, 30352), (115, 30379), (117, 30436), (121, 30457), (123, 30499), (124, 30538), (128, 30598), (146, 30838), (148, 30874), (150, 30907), (152, 30976),

Gene: SallyH_31 Start: 28771, Stop: 31026, Start Num: 5

Candidate Starts for SallyH_31:

(Start: 5 @28771 has 314 MA's), (13, 28867), (19, 28945), (20, 28972), (27, 29071), (37, 29230), (45, 29410), (48, 29434), (56, 29524), (57, 29530), (59, 29566), (63, 29605), (65, 29614), (67, 29647), (68, 29686), (70, 29731), (74, 29782), (78, 29833), (79, 29842), (82, 29911), (86, 29986), (89, 30031), (91, 30046), (101, 30181), (105, 30235), (106, 30256), (107, 30289), (110, 30334), (113, 30388), (117, 30472), (121, 30493), (123, 30535), (124, 30574), (128, 30634), (146, 30874), (147, 30907), (148, 30910), (150, 30943), (151, 30949), (152, 31012),

Gene: Samaymay_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Samaymay_31:

(Start: 5 @28761 has 314 MA's), (13, 28857), (19, 28935), (20, 28962), (27, 29061), (37, 29220), (45, 29400), (48, 29424), (56, 29514), (57, 29520), (59, 29556), (63, 29595), (65, 29604), (67, 29637), (68, 29676), (70, 29721), (74, 29772), (78, 29823), (79, 29832), (82, 29901), (86, 29976), (89, 30021), (91, 30036), (101, 30171), (105, 30225), (106, 30246), (107, 30279), (110, 30324), (113, 30378), (115, 30405), (117, 30462), (121, 30483), (123, 30525), (124, 30564), (128, 30624), (146, 30864), (147, 30897), (148, 30900), (150, 30933), (151, 30939), (152, 31002),

Gene: SassyCat97_30 Start: 28467, Stop: 30722, Start Num: 5

Candidate Starts for SassyCat97_30:

(Start: 5 @28467 has 314 MA's), (13, 28563), (19, 28641), (20, 28668), (27, 28767), (37, 28926), (45, 29106), (48, 29130), (56, 29220), (57, 29226), (59, 29262), (63, 29301), (65, 29310), (67, 29343), (68, 29382), (70, 29427), (74, 29478), (78, 29529), (79, 29538), (82, 29607), (86, 29682), (89, 29727), (91, 29742), (101, 29877), (105, 29931), (106, 29952), (107, 29985), (110, 30030), (113, 30084), (115, 30111), (117, 30168), (121, 30189), (123, 30231), (124, 30270), (128, 30330), (146, 30570), (147, 30603), (148, 30606), (150, 30639), (151, 30645), (152, 30708),

Gene: Schadenfreude_30 Start: 28315, Stop: 30573, Start Num: 5

Candidate Starts for Schadenfreude_30:

(Start: 5 @28315 has 314 MA's), (13, 28411), (19, 28489), (20, 28516), (27, 28618), (37, 28777), (45, 28957), (48, 28981), (57, 29077), (59, 29113), (63, 29152), (65, 29161), (67, 29194), (68, 29233), (70, 29278), (74, 29329), (78, 29380), (79, 29389), (82, 29458), (86, 29533), (89, 29578), (91, 29593), (101, 29728), (105, 29782), (106, 29803), (107, 29836), (110, 29881), (113, 29935), (117, 30019), (121, 30040), (123, 30082), (124, 30121), (128, 30181), (146, 30421), (147, 30454), (148, 30457), (150, 30490), (151, 30496), (152, 30559),

Gene: Schueller_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Schueller_30:

(Start: 5 @28482 has 314 MA's), (13, 28578), (19, 28656), (20, 28683), (27, 28782), (37, 28941), (45, 29121), (48, 29145), (56, 29235), (57, 29241), (59, 29277), (63, 29316), (65, 29325), (67, 29358), (68, 29397), (70, 29442), (74, 29493), (78, 29544), (79, 29553), (82, 29622), (86, 29697), (89, 29742), (91, 29757), (101, 29892), (105, 29946), (106, 29967), (107, 30000), (110, 30045), (113, 30099), (115, 30126), (117, 30183), (121, 30204), (123, 30246), (124, 30285), (128, 30345), (146, 30585), (148, 30621), (150, 30654), (152, 30723),

Gene: Scoot17C_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Scoot17C_31:

(Start: 5 @28760 has 314 MA's), (13, 28856), (19, 28934), (20, 28961), (27, 29060), (37, 29219), (45, 29399), (48, 29423), (56, 29513), (57, 29519), (59, 29555), (63, 29594), (65, 29603), (67, 29636), (68, 29675), (70, 29720), (74, 29771), (78, 29822), (79, 29831), (82, 29900), (86, 29975), (89, 30020), (91, 30035), (101, 30170), (105, 30224), (106, 30245), (107, 30278), (110, 30323), (113, 30377), (117, 30461), (121, 30482), (123, 30524), (124, 30563), (128, 30623), (146, 30863), (147, 30896), (148, 30899), (150, 30932), (151, 30938), (152, 31001),

Gene: Scrick_31 Start: 28485, Stop: 30740, Start Num: 5

Candidate Starts for Scrick_31:

(Start: 5 @28485 has 314 MA's), (13, 28581), (19, 28659), (20, 28686), (27, 28785), (37, 28944), (45, 29124), (48, 29148), (56, 29238), (57, 29244), (59, 29280), (63, 29319), (65, 29328), (67, 29361), (68, 29400), (70, 29445), (74, 29496), (78, 29547), (79, 29556), (82, 29625), (86, 29700), (89, 29745), (91, 29760), (101, 29895), (105, 29949), (106, 29970), (107, 30003), (110, 30048), (113, 30102), (115, 30129), (117, 30186), (121, 30207), (123, 30249), (124, 30288), (128, 30348), (146, 30588), (147, 30621), (148, 30624), (150, 30657), (151, 30663), (152, 30726),

Gene: Selr12_31 Start: 28489, Stop: 30744, Start Num: 5

Candidate Starts for Selr12_31:

(Start: 5 @28489 has 314 MA's), (13, 28585), (19, 28663), (20, 28690), (27, 28789), (37, 28948), (45, 29128), (48, 29152), (56, 29242), (57, 29248), (59, 29284), (63, 29323), (65, 29332), (67, 29365), (68, 29404), (70, 29449), (74, 29500), (78, 29551), (79, 29560), (82, 29629), (86, 29704), (89, 29749), (91, 29764), (101, 29899), (105, 29953), (106, 29974), (107, 30007), (110, 30052), (113, 30106), (115, 30133), (117, 30190), (121, 30211), (123, 30253), (124, 30292), (128, 30352), (146, 30592), (148, 30628), (150, 30661), (152, 30730),

Gene: Serendipitous_29 Start: 28782, Stop: 31049, Start Num: 5

Candidate Starts for Serendipitous_29:

(Start: 5 @28782 has 314 MA's), (15, 28914), (17, 28935), (18, 28953), (22, 28998), (28, 29121), (41, 29349), (49, 29451), (52, 29481), (53, 29505), (63, 29625), (66, 29640), (73, 29793), (78, 29853), (81, 29889), (82, 29931), (86, 30006), (89, 30057), (96, 30156), (99, 30180), (101, 30207), (114, 30417), (117, 30495), (119, 30504), (121, 30516), (124, 30597), (125, 30600), (126, 30612), (129, 30666), (133, 30714), (137, 30780), (146, 30897), (152, 31035),

Gene: Serendipity_31 Start: 28785, Stop: 31040, Start Num: 5

Candidate Starts for Serendipity_31:

(Start: 5 @28785 has 314 MA's), (13, 28881), (19, 28959), (20, 28986), (27, 29085), (37, 29244), (45, 29424), (48, 29448), (56, 29538), (57, 29544), (59, 29580), (63, 29619), (65, 29628), (67, 29661), (68, 29700), (70, 29745), (74, 29796), (78, 29847), (79, 29856), (82, 29925), (86, 30000), (89, 30045), (91, 30060), (101, 30195), (105, 30249), (106, 30270), (107, 30303), (110, 30348), (113, 30402), (115, 30429), (117, 30486), (121, 30507), (123, 30549), (124, 30588), (128, 30648), (146, 30888), (147, 30921), (148, 30924), (150, 30957), (151, 30963), (152, 31026),

Gene: Serpentine_0031 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Serpentine_0031:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: ShadowBud_31 Start: 28786, Stop: 31041, Start Num: 5

Candidate Starts for ShadowBud_31:

(Start: 5 @28786 has 314 MA's), (13, 28882), (19, 28960), (20, 28987), (27, 29086), (37, 29245), (45, 29425), (48, 29449), (56, 29539), (57, 29545), (59, 29581), (63, 29620), (65, 29629), (67, 29662), (68, 29701), (70, 29746), (74, 29797), (78, 29848), (79, 29857), (82, 29926), (86, 30001), (89, 30046), (91, 30061), (101, 30196), (105, 30250), (106, 30271), (107, 30304), (110, 30349), (113, 30403), (115, 30430), (117, 30487), (121, 30508), (123, 30550), (124, 30589), (128, 30649), (146, 30889), (147, 30922), (148, 30925), (150, 30958), (151, 30964), (152, 31027),

Gene: Sheila_31 Start: 28755, Stop: 31013, Start Num: 5

Candidate Starts for Sheila_31:

(Start: 5 @28755 has 314 MA's), (13, 28851), (19, 28929), (20, 28956), (27, 29058), (37, 29217), (45, 29397), (48, 29421), (57, 29517), (59, 29553), (63, 29592), (65, 29601), (67, 29634), (68, 29673), (70, 29718), (74, 29769), (78, 29820), (79, 29829), (82, 29898), (86, 29973), (89, 30018), (91, 30033), (101, 30168), (105, 30222), (106, 30243), (107, 30276), (110, 30321), (113, 30375), (115, 30402), (117, 30459), (121, 30480), (123, 30522), (124, 30561), (128, 30621), (146, 30861), (147, 30894), (148, 30897), (150, 30930), (151, 30936), (152, 30999),

Gene: Shenandoah_31 Start: 28589, Stop: 30814, Start Num: 4

Candidate Starts for Shenandoah_31:

(Start: 4 @28589 has 49 MA's), (Start: 7 @28604 has 1 MA's), (10, 28649), (14, 28706), (21, 28784), (26, 28853), (27, 28865), (30, 28907), (32, 28943), (33, 28970), (34, 28982), (36, 29009), (39, 29099), (43, 29171), (52, 29255), (60, 29363), (61, 29384), (68, 29477), (69, 29492), (77, 29621), (82, 29702), (86, 29777), (88, 29819), (89, 29825), (93, 29861), (101, 29975), (102, 29987), (105, 30029), (106, 30050), (109, 30104), (110, 30128), (117, 30260), (119, 30269), (123, 30323), (129, 30431), (130, 30458), (134, 30500), (138, 30572), (146, 30662), (148, 30698),

Gene: Shenyu_30 Start: 28934, Stop: 31201, Start Num: 5

Candidate Starts for Shenyu_30:

(Start: 5 @28934 has 314 MA's), (8, 28982), (12, 29012), (13, 29030), (15, 29066), (17, 29087), (18, 29105), (24, 29168), (28, 29273), (37, 29396), (38, 29402), (41, 29501), (49, 29603), (53, 29657), (63, 29777), (66, 29792), (67, 29819), (78, 30005), (81, 30041), (82, 30083), (86, 30158), (89, 30209), (93, 30245), (96, 30308), (99, 30332), (101, 30359), (109, 30488), (110, 30512), (117, 30647), (119, 30656), (121, 30668), (123, 30710), (124, 30749), (125, 30752), (127, 30806), (129, 30818), (131, 30848), (133, 30866), (137, 30932), (146, 31049), (152, 31187),

Gene: ShiVal_31 Start: 28759, Stop: 31014, Start Num: 5

Candidate Starts for ShiVal_31:

(Start: 5 @28759 has 314 MA's), (13, 28855), (19, 28933), (20, 28960), (27, 29059), (37, 29218), (45, 29398), (48, 29422), (56, 29512), (57, 29518), (59, 29554), (63, 29593), (65, 29602), (67, 29635), (68, 29674), (70, 29719), (74, 29770), (78, 29821), (79, 29830), (82, 29899), (86, 29974), (89, 30019), (91, 30034), (101, 30169), (105, 30223), (106, 30244), (107, 30277), (110, 30322), (113, 30376), (115, 30403), (117, 30460), (121, 30481), (123, 30523), (124, 30562), (128, 30622), (146, 30862), (147,

30895), (148, 30898), (150, 30931), (151, 30937), (152, 31000),

Gene: Sigman_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for Sigman_31:

(Start: 5 @28751 has 314 MA's), (13, 28847), (19, 28925), (20, 28952), (27, 29051), (37, 29210), (45, 29390), (48, 29414), (56, 29504), (57, 29510), (59, 29546), (63, 29585), (65, 29594), (67, 29627), (68, 29666), (70, 29711), (74, 29762), (78, 29813), (79, 29822), (82, 29891), (86, 29966), (89, 30011), (91, 30026), (101, 30161), (105, 30215), (106, 30236), (107, 30269), (110, 30314), (113, 30368), (117, 30452), (121, 30473), (123, 30515), (124, 30554), (128, 30614), (146, 30854), (147, 30887), (148, 30890), (150, 30923), (151, 30929), (152, 30992),

Gene: SilverBell_31 Start: 28781, Stop: 31036, Start Num: 5

Candidate Starts for SilverBell_31:

(Start: 5 @28781 has 314 MA's), (13, 28877), (19, 28955), (20, 28982), (27, 29081), (37, 29240), (45, 29420), (48, 29444), (56, 29534), (57, 29540), (59, 29576), (63, 29615), (65, 29624), (67, 29657), (68, 29696), (70, 29741), (74, 29792), (78, 29843), (79, 29852), (82, 29921), (86, 29996), (89, 30041), (91, 30056), (101, 30191), (105, 30245), (106, 30266), (107, 30299), (110, 30344), (113, 30398), (115, 30425), (117, 30482), (121, 30503), (123, 30545), (124, 30584), (128, 30644), (146, 30884), (148, 30920), (150, 30953), (152, 31022),

Gene: Simielle_30 Start: 28454, Stop: 30709, Start Num: 5

Candidate Starts for Simielle_30:

(Start: 5 @28454 has 314 MA's), (13, 28550), (19, 28628), (20, 28655), (27, 28754), (37, 28913), (45, 29093), (48, 29117), (56, 29207), (57, 29213), (59, 29249), (63, 29288), (65, 29297), (67, 29330), (68, 29369), (70, 29414), (74, 29465), (78, 29516), (79, 29525), (82, 29594), (86, 29669), (89, 29714), (91, 29729), (101, 29864), (105, 29918), (106, 29939), (107, 29972), (110, 30017), (113, 30071), (115, 30098), (117, 30155), (121, 30176), (123, 30218), (124, 30257), (128, 30317), (146, 30557), (147, 30590), (148, 30593), (150, 30626), (151, 30632), (152, 30695),

Gene: SirBeauregard_31 Start: 28458, Stop: 30713, Start Num: 5

Candidate Starts for SirBeauregard_31:

(Start: 5 @28458 has 314 MA's), (13, 28554), (19, 28632), (20, 28659), (27, 28758), (37, 28917), (45, 29097), (48, 29121), (57, 29217), (59, 29253), (63, 29292), (65, 29301), (67, 29334), (68, 29373), (70, 29418), (74, 29469), (79, 29529), (82, 29598), (86, 29673), (89, 29718), (91, 29733), (101, 29868), (105, 29922), (106, 29943), (107, 29976), (110, 30021), (113, 30075), (115, 30102), (117, 30159), (121, 30180), (123, 30222), (124, 30261), (128, 30321), (146, 30561), (148, 30597), (150, 30630), (152, 30699),

Gene: SirJeffery_30 Start: 28980, Stop: 31256, Start Num: 5

Candidate Starts for SirJeffery_30:

(Start: 5 @28980 has 314 MA's), (6, 28986), (8, 29028), (11, 29049), (12, 29058), (15, 29112), (17, 29133), (18, 29151), (19, 29154), (22, 29196), (23, 29202), (24, 29214), (27, 29283), (28, 29319), (37, 29442), (41, 29547), (53, 29703), (55, 29730), (58, 29781), (63, 29832), (66, 29847), (78, 30060), (81, 30096), (82, 30138), (86, 30213), (96, 30363), (99, 30387), (101, 30414), (106, 30489), (109, 30543), (117, 30702), (119, 30711), (121, 30723), (124, 30804), (125, 30807), (129, 30873), (133, 30921), (137, 30987), (146, 31104),

Gene: Skippy_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Skippy_31:

(Start: 5 @28749 has 314 MA's), (13, 28845), (19, 28923), (20, 28950), (27, 29049), (37, 29208), (45, 29388), (48, 29412), (56, 29502), (57, 29508), (59, 29544), (63, 29583), (65, 29592), (67, 29625), (68, 29664), (70, 29709), (74, 29760), (78, 29811), (79, 29820), (82, 29889), (86, 29964), (89, 30009), (91, 30024), (101, 30159), (105, 30213), (106, 30234), (107, 30267), (110, 30312), (113, 30366), (115,

30393), (117, 30450), (121, 30471), (123, 30513), (124, 30552), (128, 30612), (146, 30852), (147, 30885), (148, 30888), (150, 30921), (151, 30927), (152, 30990),

Gene: Slatt_31 Start: 28774, Stop: 31029, Start Num: 5

Candidate Starts for Slatt_31:

(Start: 5 @28774 has 314 MA's), (13, 28870), (19, 28948), (20, 28975), (27, 29074), (37, 29233), (45, 29413), (48, 29437), (56, 29527), (57, 29533), (59, 29569), (63, 29608), (65, 29617), (67, 29650), (68, 29689), (70, 29734), (74, 29785), (78, 29836), (79, 29845), (82, 29914), (86, 29989), (89, 30034), (91, 30049), (101, 30184), (105, 30238), (106, 30259), (107, 30292), (110, 30337), (113, 30391), (115, 30418), (117, 30475), (121, 30496), (123, 30538), (124, 30577), (128, 30637), (146, 30877), (147, 30910), (148, 30913), (150, 30946), (151, 30952), (152, 31015),

Gene: SlippinJimmy_31 Start: 29378, Stop: 31603, Start Num: 4

Candidate Starts for SlippinJimmy_31:

(Start: 4 @29378 has 49 MA's), (Start: 7 @29393 has 1 MA's), (10, 29438), (14, 29495), (21, 29573), (26, 29642), (27, 29654), (30, 29696), (32, 29732), (33, 29759), (34, 29771), (36, 29798), (39, 29888), (43, 29960), (52, 30044), (60, 30152), (61, 30173), (68, 30266), (69, 30281), (77, 30410), (82, 30491), (86, 30566), (88, 30608), (89, 30614), (93, 30650), (96, 30713), (101, 30764), (102, 30776), (105, 30818), (106, 30839), (109, 30893), (110, 30917), (112, 30953), (117, 31049), (119, 31058), (123, 31112), (129, 31220), (130, 31247), (134, 31289), (138, 31361), (146, 31451), (148, 31487),

Gene: Soile_31 Start: 28481, Stop: 30736, Start Num: 5

Candidate Starts for Soile_31:

(Start: 5 @28481 has 314 MA's), (13, 28577), (19, 28655), (20, 28682), (27, 28781), (37, 28940), (45, 29120), (48, 29144), (56, 29234), (57, 29240), (59, 29276), (63, 29315), (65, 29324), (67, 29357), (68, 29396), (70, 29441), (74, 29492), (78, 29543), (79, 29552), (82, 29621), (86, 29696), (89, 29741), (91, 29756), (101, 29891), (105, 29945), (106, 29966), (107, 29999), (110, 30044), (113, 30098), (115, 30125), (117, 30182), (121, 30203), (123, 30245), (124, 30284), (128, 30344), (146, 30584), (147, 30617), (148, 30620), (150, 30653), (151, 30659), (152, 30722),

Gene: Solosis_30 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for Solosis_30:

(Start: 5 @28476 has 314 MA's), (13, 28572), (19, 28650), (20, 28677), (27, 28776), (37, 28935), (45, 29115), (48, 29139), (56, 29229), (57, 29235), (59, 29271), (63, 29310), (65, 29319), (67, 29352), (68, 29391), (70, 29436), (74, 29487), (78, 29538), (79, 29547), (82, 29616), (86, 29691), (89, 29736), (91, 29751), (101, 29886), (105, 29940), (106, 29961), (107, 29994), (110, 30039), (113, 30093), (115, 30120), (117, 30177), (121, 30198), (123, 30240), (124, 30279), (128, 30339), (140, 30504), (146, 30579), (148, 30615), (150, 30648), (152, 30717),

Gene: Sophia_30 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for Sophia_30:

(Start: 5 @28476 has 314 MA's), (13, 28572), (19, 28650), (20, 28677), (27, 28776), (37, 28935), (45, 29115), (48, 29139), (56, 29229), (57, 29235), (59, 29271), (63, 29310), (65, 29319), (67, 29352), (68, 29391), (70, 29436), (74, 29487), (78, 29538), (79, 29547), (82, 29616), (86, 29691), (89, 29736), (91, 29751), (101, 29886), (105, 29940), (106, 29961), (107, 29994), (110, 30039), (113, 30093), (115, 30120), (117, 30177), (121, 30198), (123, 30240), (124, 30279), (128, 30339), (146, 30579), (148, 30615), (150, 30648), (152, 30717),

Gene: Soto_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Soto_31:

(Start: 5 @28769 has 314 MA's), (13, 28865), (19, 28943), (20, 28970), (27, 29069), (37, 29228), (45, 29408), (48, 29432), (57, 29528), (59, 29564), (63, 29603), (65, 29612), (67, 29645), (68, 29684), (70, 29729), (74, 29780), (78, 29831), (79, 29840), (82, 29909), (86, 29984), (89, 30029), (91, 30044), (101,

30179), (105, 30233), (106, 30254), (107, 30287), (110, 30332), (113, 30386), (115, 30413), (117, 30470), (121, 30491), (123, 30533), (124, 30572), (128, 30632), (146, 30872), (148, 30908), (150, 30941), (152, 31010),

Gene: Spartan300_31 Start: 28755, Stop: 31010, Start Num: 5

Candidate Starts for Spartan300_31:

(Start: 5 @28755 has 314 MA's), (13, 28851), (19, 28929), (20, 28956), (27, 29055), (37, 29214), (45, 29394), (48, 29418), (56, 29508), (57, 29514), (59, 29550), (63, 29589), (65, 29598), (67, 29631), (68, 29670), (70, 29715), (74, 29766), (78, 29817), (79, 29826), (82, 29895), (86, 29970), (89, 30015), (91, 30030), (101, 30165), (105, 30219), (106, 30240), (107, 30273), (110, 30318), (113, 30372), (117, 30456), (121, 30477), (123, 30519), (124, 30558), (128, 30618), (146, 30858), (147, 30891), (148, 30894), (150, 30927), (152, 30996),

Gene: Squid_31 Start: 28467, Stop: 30722, Start Num: 5

Candidate Starts for Squid_31:

(Start: 5 @28467 has 314 MA's), (13, 28563), (19, 28641), (20, 28668), (27, 28767), (37, 28926), (45, 29106), (48, 29130), (56, 29220), (57, 29226), (59, 29262), (63, 29301), (65, 29310), (67, 29343), (68, 29382), (70, 29427), (74, 29478), (78, 29529), (79, 29538), (82, 29607), (86, 29682), (89, 29727), (91, 29742), (101, 29877), (105, 29931), (106, 29952), (107, 29985), (110, 30030), (113, 30084), (115, 30111), (117, 30168), (121, 30189), (123, 30231), (124, 30270), (128, 30330), (146, 30570), (147, 30603), (148, 30606), (150, 30639), (151, 30645), (152, 30708),

Gene: Squiggle_31 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Squiggle_31:

(Start: 5 @28479 has 314 MA's), (13, 28575), (19, 28653), (20, 28680), (27, 28779), (37, 28938), (45, 29118), (48, 29142), (56, 29232), (57, 29238), (59, 29274), (63, 29313), (65, 29322), (67, 29355), (68, 29394), (70, 29439), (74, 29490), (78, 29541), (79, 29550), (82, 29619), (86, 29694), (89, 29739), (91, 29754), (101, 29889), (105, 29943), (106, 29964), (107, 29997), (110, 30042), (113, 30096), (115, 30123), (117, 30180), (121, 30201), (123, 30243), (124, 30282), (128, 30342), (146, 30582), (148, 30618), (150, 30651), (152, 30720),

Gene: Stinger_26 Start: 27542, Stop: 29839, Start Num: 5

Candidate Starts for Stinger_26:

(Start: 5 @27542 has 314 MA's), (13, 27641), (14, 27659), (27, 27845), (29, 27890), (31, 27926), (35, 27992), (37, 28004), (41, 28109), (42, 28148), (43, 28154), (48, 28208), (51, 28235), (54, 28289), (55, 28292), (59, 28355), (64, 28397), (66, 28409), (67, 28436), (72, 28556), (77, 28619), (81, 28658), (85, 28772), (86, 28787), (87, 28808), (89, 28838), (90, 28850), (93, 28874), (94, 28886), (96, 28937), (97, 28940), (98, 28958), (100, 28982), (101, 28988), (105, 29042), (106, 29063), (107, 29096), (109, 29117), (110, 29141), (117, 29276), (118, 29282), (119, 29285), (121, 29297), (125, 29381), (133, 29495), (134, 29516), (135, 29540), (139, 29603), (143, 29639), (146, 29687), (147, 29720), (148, 29723), (152, 29825), (153, 29828),

Gene: StinkyVeggy_32 Start: 29124, Stop: 31391, Start Num: 5

Candidate Starts for StinkyVeggy_32:

(Start: 5 @29124 has 314 MA's), (8, 29172), (12, 29202), (13, 29220), (15, 29256), (17, 29277), (18, 29295), (24, 29358), (28, 29463), (37, 29586), (38, 29592), (41, 29691), (49, 29793), (53, 29847), (63, 29967), (66, 29982), (67, 30009), (78, 30195), (81, 30231), (82, 30273), (86, 30348), (89, 30399), (93, 30435), (96, 30498), (99, 30522), (101, 30549), (109, 30678), (110, 30702), (117, 30837), (119, 30846), (121, 30858), (123, 30900), (124, 30939), (125, 30942), (127, 30996), (129, 31008), (131, 31038), (133, 31056), (137, 31122), (146, 31239), (152, 31377),

Gene: Struggle_30 Start: 28317, Stop: 30572, Start Num: 5

Candidate Starts for Struggle_30:

(Start: 5 @28317 has 314 MA's), (13, 28413), (19, 28491), (20, 28518), (27, 28617), (37, 28776), (45, 28956), (48, 28980), (57, 29076), (59, 29112), (63, 29151), (65, 29160), (67, 29193), (68, 29232), (70, 29277), (74, 29328), (78, 29379), (79, 29388), (82, 29457), (86, 29532), (89, 29577), (91, 29592), (101, 29727), (105, 29781), (106, 29802), (107, 29835), (110, 29880), (113, 29934), (115, 29961), (117, 30018), (121, 30039), (123, 30081), (124, 30120), (128, 30180), (146, 30420), (148, 30456), (150, 30489), (152, 30558),

Gene: Suffolk_31 Start: 28763, Stop: 31021, Start Num: 5

Candidate Starts for Suffolk_31:

(Start: 5 @28763 has 314 MA's), (13, 28859), (19, 28937), (20, 28964), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: Suigeneris_30 Start: 28983, Stop: 31259, Start Num: 5

Candidate Starts for Suigeneris_30:

(Start: 5 @28983 has 314 MA's), (6, 28989), (8, 29031), (11, 29052), (12, 29061), (15, 29115), (17, 29136), (18, 29154), (19, 29157), (22, 29199), (23, 29205), (24, 29217), (27, 29286), (28, 29322), (37, 29445), (41, 29550), (53, 29706), (55, 29733), (58, 29784), (63, 29835), (66, 29850), (78, 30063), (81, 30099), (82, 30141), (86, 30216), (96, 30366), (99, 30390), (101, 30417), (106, 30492), (109, 30546), (117, 30705), (119, 30714), (121, 30726), (124, 30807), (125, 30810), (129, 30876), (133, 30924), (137, 30990), (146, 31107),

Gene: Surely_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Surely_31:

(Start: 5 @28769 has 314 MA's), (13, 28865), (19, 28943), (20, 28970), (27, 29069), (37, 29228), (45, 29408), (48, 29432), (56, 29522), (57, 29528), (59, 29564), (63, 29603), (65, 29612), (67, 29645), (68, 29684), (70, 29729), (74, 29780), (78, 29831), (79, 29840), (82, 29909), (86, 29984), (89, 30029), (91, 30044), (101, 30179), (105, 30233), (106, 30254), (107, 30287), (110, 30332), (113, 30386), (115, 30413), (117, 30470), (121, 30491), (123, 30533), (124, 30572), (128, 30632), (146, 30872), (147, 30905), (148, 30908), (150, 30941), (151, 30947), (152, 31010),

Gene: SwainyDoc_31 Start: 28611, Stop: 30836, Start Num: 4

Candidate Starts for SwainyDoc_31:

(Start: 4 @28611 has 49 MA's), (Start: 7 @28626 has 1 MA's), (10, 28671), (14, 28728), (21, 28806), (26, 28875), (27, 28887), (30, 28929), (32, 28965), (33, 28992), (34, 29004), (36, 29031), (39, 29121), (43, 29193), (52, 29277), (60, 29385), (61, 29406), (68, 29499), (69, 29514), (77, 29643), (82, 29724), (86, 29799), (88, 29841), (89, 29847), (96, 29946), (101, 29997), (102, 30009), (105, 30051), (106, 30072), (109, 30126), (110, 30150), (112, 30186), (117, 30282), (119, 30291), (123, 30345), (129, 30453), (130, 30480), (134, 30522), (138, 30594), (146, 30684), (148, 30720),

Gene: Swiphy_31 Start: 28764, Stop: 31019, Start Num: 5

Candidate Starts for Swiphy_31:

(Start: 5 @28764 has 314 MA's), (13, 28860), (19, 28938), (20, 28965), (27, 29064), (37, 29223), (45, 29403), (48, 29427), (56, 29517), (57, 29523), (59, 29559), (63, 29598), (65, 29607), (67, 29640), (68, 29679), (70, 29724), (74, 29775), (78, 29826), (79, 29835), (82, 29904), (86, 29979), (89, 30024), (91, 30039), (101, 30174), (105, 30228), (106, 30249), (107, 30282), (110, 30327), (113, 30381), (115, 30408), (117, 30465), (121, 30486), (123, 30528), (124, 30567), (128, 30627), (146, 30867), (147, 30900), (148, 30903), (150, 30936), (151, 30942), (152, 31005),

Gene: Swish_31 Start: 28752, Stop: 31007, Start Num: 5

Candidate Starts for Swish_31:

(Start: 5 @28752 has 314 MA's), (13, 28848), (19, 28926), (20, 28953), (27, 29052), (37, 29211), (45, 29391), (48, 29415), (56, 29505), (57, 29511), (59, 29547), (63, 29586), (65, 29595), (67, 29628), (68, 29667), (70, 29712), (74, 29763), (78, 29814), (79, 29823), (82, 29892), (86, 29967), (89, 30012), (91, 30027), (101, 30162), (105, 30216), (106, 30237), (107, 30270), (110, 30315), (113, 30369), (117, 30453), (121, 30474), (123, 30516), (124, 30555), (128, 30615), (146, 30855), (147, 30888), (148, 30891), (150, 30924), (151, 30930), (152, 30993),

Gene: SynergyX_31 Start: 28614, Stop: 30842, Start Num: 4

Candidate Starts for SynergyX_31:

(Start: 4 @28614 has 49 MA's), (Start: 7 @28629 has 1 MA's), (10, 28674), (14, 28731), (21, 28809), (26, 28878), (27, 28890), (30, 28932), (32, 28968), (33, 28995), (34, 29007), (36, 29034), (39, 29124), (43, 29196), (52, 29280), (60, 29388), (61, 29409), (68, 29502), (69, 29517), (77, 29646), (82, 29727), (86, 29802), (88, 29844), (89, 29850), (93, 29886), (101, 30000), (102, 30012), (105, 30054), (106, 30075), (109, 30129), (110, 30153), (112, 30189), (117, 30288), (119, 30297), (123, 30351), (129, 30459), (130, 30486), (134, 30528), (138, 30600), (146, 30690), (148, 30726),

Gene: TallGrassMM_31 Start: 28391, Stop: 30646, Start Num: 5

Candidate Starts for TallGrassMM_31:

(Start: 5 @28391 has 314 MA's), (13, 28487), (19, 28565), (20, 28592), (27, 28691), (37, 28850), (45, 29030), (48, 29054), (56, 29144), (57, 29150), (59, 29186), (63, 29225), (65, 29234), (67, 29267), (68, 29306), (70, 29351), (74, 29402), (78, 29453), (79, 29462), (82, 29531), (86, 29606), (89, 29651), (91, 29666), (101, 29801), (105, 29855), (106, 29876), (107, 29909), (110, 29954), (113, 30008), (115, 30035), (117, 30092), (121, 30113), (123, 30155), (124, 30194), (128, 30254), (146, 30494), (148, 30530), (150, 30563), (152, 30632),

Gene: Telesworld_30 Start: 28463, Stop: 30718, Start Num: 5

Candidate Starts for Telesworld_30:

(Start: 5 @28463 has 314 MA's), (13, 28559), (19, 28637), (20, 28664), (27, 28763), (37, 28922), (45, 29102), (48, 29126), (56, 29216), (57, 29222), (59, 29258), (63, 29297), (65, 29306), (67, 29339), (68, 29378), (70, 29423), (74, 29474), (78, 29525), (79, 29534), (82, 29603), (86, 29678), (89, 29723), (91, 29738), (101, 29873), (105, 29927), (106, 29948), (107, 29981), (110, 30026), (113, 30080), (115, 30107), (117, 30164), (121, 30185), (123, 30227), (124, 30266), (128, 30326), (146, 30566), (147, 30599), (148, 30602), (150, 30635), (151, 30641), (152, 30704),

Gene: Thora_31 Start: 28768, Stop: 31023, Start Num: 5

Candidate Starts for Thora_31:

(Start: 5 @28768 has 314 MA's), (13, 28864), (19, 28942), (20, 28969), (27, 29068), (37, 29227), (45, 29407), (48, 29431), (56, 29521), (57, 29527), (59, 29563), (63, 29602), (65, 29611), (67, 29644), (68, 29683), (70, 29728), (74, 29779), (78, 29830), (79, 29839), (82, 29908), (86, 29983), (89, 30028), (91, 30043), (101, 30178), (105, 30232), (106, 30253), (107, 30286), (110, 30331), (113, 30385), (117, 30469), (121, 30490), (123, 30532), (124, 30571), (128, 30631), (146, 30871), (147, 30904), (148, 30907), (150, 30940), (151, 30946), (152, 31009),

Gene: ThreeOh3D2_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for ThreeOh3D2_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: Thunderbird_30 Start: 28472, Stop: 30727, Start Num: 5

Candidate Starts for Thunderbird_30:

(Start: 5 @28472 has 314 MA's), (13, 28568), (19, 28646), (20, 28673), (27, 28772), (37, 28931), (45, 29111), (48, 29135), (56, 29225), (57, 29231), (59, 29267), (63, 29306), (65, 29315), (67, 29348), (68, 29387), (70, 29432), (74, 29483), (78, 29534), (79, 29543), (82, 29612), (86, 29687), (89, 29732), (91, 29747), (101, 29882), (105, 29936), (106, 29957), (107, 29990), (110, 30035), (113, 30089), (115, 30116), (117, 30173), (121, 30194), (123, 30236), (124, 30275), (128, 30335), (146, 30575), (148, 30611), (150, 30644), (152, 30713),

Gene: Timmi_30 Start: 28477, Stop: 30732, Start Num: 5

Candidate Starts for Timmi_30:

(Start: 5 @28477 has 314 MA's), (13, 28573), (19, 28651), (20, 28678), (27, 28777), (37, 28936), (45, 29116), (48, 29140), (57, 29236), (59, 29272), (63, 29311), (65, 29320), (67, 29353), (68, 29392), (70, 29437), (74, 29488), (78, 29539), (79, 29548), (82, 29617), (86, 29692), (89, 29737), (91, 29752), (101, 29887), (105, 29941), (106, 29962), (107, 29995), (110, 30040), (113, 30094), (115, 30121), (117, 30178), (121, 30199), (123, 30241), (124, 30280), (128, 30340), (146, 30580), (148, 30616), (150, 30649), (152, 30718),

Gene: TinyTerror_31 Start: 28602, Stop: 30827, Start Num: 4

Candidate Starts for TinyTerror_31:

(Start: 4 @28602 has 49 MA's), (Start: 7 @28617 has 1 MA's), (10, 28662), (14, 28719), (21, 28797), (26, 28866), (27, 28878), (30, 28920), (32, 28956), (33, 28983), (34, 28995), (36, 29022), (39, 29112), (43, 29184), (52, 29268), (60, 29376), (61, 29397), (68, 29490), (69, 29505), (77, 29634), (82, 29715), (86, 29790), (88, 29832), (89, 29838), (93, 29874), (96, 29937), (101, 29988), (102, 30000), (105, 30042), (106, 30063), (109, 30117), (110, 30141), (112, 30177), (117, 30273), (119, 30282), (123, 30336), (129, 30444), (130, 30471), (134, 30513), (138, 30585), (146, 30675), (148, 30711),

Gene: TomBombadil_31 Start: 28762, Stop: 31017, Start Num: 5

Candidate Starts for TomBombadil_31:

(Start: 5 @28762 has 314 MA's), (13, 28858), (19, 28936), (20, 28963), (27, 29062), (37, 29221), (45, 29401), (48, 29425), (56, 29515), (57, 29521), (59, 29557), (63, 29596), (65, 29605), (67, 29638), (68, 29677), (70, 29722), (74, 29773), (78, 29824), (79, 29833), (82, 29902), (86, 29977), (89, 30022), (91, 30037), (101, 30172), (105, 30226), (106, 30247), (107, 30280), (110, 30325), (113, 30379), (115, 30406), (117, 30463), (121, 30484), (123, 30526), (124, 30565), (128, 30625), (146, 30865), (147, 30898), (148, 30901), (150, 30934), (151, 30940), (152, 31003),

Gene: Tomlarah_31 Start: 28753, Stop: 31008, Start Num: 5

Candidate Starts for Tomlarah_31:

(Start: 5 @28753 has 314 MA's), (13, 28849), (19, 28927), (20, 28954), (27, 29053), (37, 29212), (45, 29392), (48, 29416), (56, 29506), (57, 29512), (59, 29548), (63, 29587), (65, 29596), (67, 29629), (68, 29668), (70, 29713), (74, 29764), (78, 29815), (79, 29824), (82, 29893), (86, 29968), (89, 30013), (91, 30028), (101, 30163), (105, 30217), (106, 30238), (107, 30271), (110, 30316), (113, 30370), (115, 30397), (117, 30454), (121, 30475), (123, 30517), (124, 30556), (128, 30616), (146, 30856), (147, 30889), (148, 30892), (150, 30925), (151, 30931), (152, 30994),

Gene: Toni_30 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Toni_30:

(Start: 5 @28469 has 314 MA's), (13, 28565), (19, 28643), (20, 28670), (27, 28769), (37, 28928), (45, 29108), (48, 29132), (56, 29222), (57, 29228), (59, 29264), (63, 29303), (65, 29312), (67, 29345), (68, 29384), (70, 29429), (74, 29480), (78, 29531), (79, 29540), (82, 29609), (86, 29684), (89, 29729), (91, 29744), (101, 29879), (105, 29933), (106, 29954), (107, 29987), (110, 30032), (113, 30086), (117, 30170), (121, 30191), (123, 30233), (124, 30272), (128, 30332), (146, 30572), (147, 30605), (148, 30608), (150, 30641), (151, 30647), (152, 30710),

Gene: TooFast2Furius_32 Start: 28998, Stop: 31253, Start Num: 5

Candidate Starts for TooFast2Furius_32:

(Start: 5 @28998 has 314 MA's), (13, 29094), (19, 29172), (20, 29199), (27, 29298), (37, 29457), (45, 29637), (48, 29661), (56, 29751), (57, 29757), (59, 29793), (63, 29832), (65, 29841), (67, 29874), (68, 29913), (70, 29958), (74, 30009), (78, 30060), (79, 30069), (82, 30138), (86, 30213), (89, 30258), (91, 30273), (101, 30408), (105, 30462), (106, 30483), (107, 30516), (110, 30561), (113, 30615), (115, 30642), (117, 30699), (121, 30720), (123, 30762), (124, 30801), (128, 30861), (146, 31101), (148, 31137), (150, 31170), (152, 31239),

Gene: Tooj_31 Start: 28823, Stop: 31081, Start Num: 5

Candidate Starts for Tooj_31:

(Start: 5 @28823 has 314 MA's), (13, 28919), (19, 28997), (20, 29024), (27, 29126), (37, 29285), (45, 29465), (48, 29489), (57, 29585), (59, 29621), (63, 29660), (65, 29669), (67, 29702), (68, 29741), (70, 29786), (74, 29837), (78, 29888), (79, 29897), (82, 29966), (86, 30041), (89, 30086), (91, 30101), (101, 30236), (105, 30290), (106, 30311), (107, 30344), (110, 30389), (113, 30443), (115, 30470), (117, 30527), (121, 30548), (123, 30590), (124, 30629), (128, 30689), (146, 30929), (147, 30962), (148, 30965), (150, 30998), (151, 31004), (152, 31067),

Gene: Triad_31 Start: 27630, Stop: 29885, Start Num: 5

Candidate Starts for Triad_31:

(Start: 5 @27630 has 314 MA's), (13, 27726), (19, 27804), (20, 27831), (27, 27930), (45, 28269), (48, 28293), (56, 28383), (57, 28389), (59, 28425), (63, 28464), (67, 28506), (68, 28545), (70, 28590), (74, 28641), (78, 28692), (79, 28701), (82, 28770), (86, 28845), (89, 28890), (91, 28905), (101, 29040), (105, 29094), (106, 29115), (107, 29148), (110, 29193), (113, 29247), (117, 29331), (121, 29352), (123, 29394), (124, 29433), (128, 29493), (146, 29733), (147, 29766), (148, 29769), (150, 29802), (151, 29808), (152, 29871),

Gene: True_30 Start: 28466, Stop: 30721, Start Num: 5

Candidate Starts for True_30:

(Start: 5 @28466 has 314 MA's), (13, 28562), (19, 28640), (20, 28667), (27, 28766), (37, 28925), (45, 29105), (48, 29129), (56, 29219), (57, 29225), (59, 29261), (63, 29300), (65, 29309), (67, 29342), (68, 29381), (70, 29426), (74, 29477), (78, 29528), (79, 29537), (82, 29606), (86, 29681), (89, 29726), (91, 29741), (101, 29876), (105, 29930), (106, 29951), (107, 29984), (110, 30029), (113, 30083), (115, 30110), (117, 30167), (121, 30188), (123, 30230), (124, 30269), (128, 30329), (146, 30569), (147, 30602), (148, 30605), (150, 30638), (151, 30644), (152, 30707),

Gene: Trypo_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Trypo_31:

(Start: 5 @28761 has 314 MA's), (13, 28857), (19, 28935), (20, 28962), (27, 29061), (37, 29220), (45, 29400), (48, 29424), (57, 29520), (59, 29556), (63, 29595), (65, 29604), (67, 29637), (68, 29676), (70, 29721), (74, 29772), (78, 29823), (79, 29832), (82, 29901), (86, 29976), (89, 30021), (91, 30036), (101, 30171), (105, 30225), (106, 30246), (107, 30279), (110, 30324), (113, 30378), (115, 30405), (117, 30462), (121, 30483), (123, 30525), (124, 30564), (128, 30624), (146, 30864), (148, 30900), (150, 30933), (152, 31002),

Gene: Tydolla_31 Start: 29351, Stop: 31576, Start Num: 4

Candidate Starts for Tydolla_31:

(Start: 4 @29351 has 49 MA's), (Start: 7 @29366 has 1 MA's), (10, 29411), (14, 29468), (21, 29546), (26, 29615), (27, 29627), (30, 29669), (32, 29705), (33, 29732), (34, 29744), (36, 29771), (39, 29861), (43, 29933), (52, 30017), (60, 30125), (61, 30146), (68, 30239), (69, 30254), (77, 30383), (82, 30464), (86, 30539), (88, 30581), (89, 30587), (93, 30623), (101, 30737), (102, 30749), (105, 30791), (106, 30812), (109, 30866), (110, 30890), (112, 30926), (117, 31022), (119, 31031), (123, 31085), (129,

31193), (130, 31220), (134, 31262), (138, 31334), (146, 31424), (148, 31460),

Gene: TyrionL_30 Start: 28325, Stop: 30580, Start Num: 5

Candidate Starts for TyrionL_30:

(Start: 5 @28325 has 314 MA's), (13, 28421), (19, 28499), (20, 28526), (27, 28625), (37, 28784), (45, 28964), (48, 28988), (57, 29084), (59, 29120), (63, 29159), (65, 29168), (67, 29201), (68, 29240), (70, 29285), (74, 29336), (79, 29396), (82, 29465), (86, 29540), (89, 29585), (91, 29600), (101, 29735), (105, 29789), (106, 29810), (107, 29843), (110, 29888), (113, 29942), (115, 29969), (117, 30026), (121, 30047), (123, 30089), (124, 30128), (128, 30188), (146, 30428), (147, 30461), (148, 30464), (150, 30497), (152, 30566),

Gene: UACh1_31 Start: 28775, Stop: 31030, Start Num: 5

Candidate Starts for UACh1_31:

(Start: 5 @28775 has 314 MA's), (13, 28871), (19, 28949), (20, 28976), (27, 29075), (37, 29234), (45, 29414), (48, 29438), (56, 29528), (57, 29534), (59, 29570), (63, 29609), (65, 29618), (67, 29651), (68, 29690), (70, 29735), (74, 29786), (78, 29837), (79, 29846), (82, 29915), (86, 29990), (89, 30035), (91, 30050), (101, 30185), (105, 30239), (106, 30260), (107, 30293), (110, 30338), (113, 30392), (117, 30476), (121, 30497), (123, 30539), (124, 30578), (128, 30638), (146, 30878), (147, 30911), (148, 30914), (150, 30947), (151, 30953), (152, 31016),

Gene: UncleHowie_31 Start: 28465, Stop: 30720, Start Num: 5

Candidate Starts for UncleHowie_31:

(Start: 5 @28465 has 314 MA's), (13, 28561), (19, 28639), (20, 28666), (27, 28765), (37, 28924), (45, 29104), (48, 29128), (56, 29218), (57, 29224), (59, 29260), (63, 29299), (65, 29308), (67, 29341), (68, 29380), (70, 29425), (74, 29476), (78, 29527), (79, 29536), (82, 29605), (86, 29680), (89, 29725), (91, 29740), (101, 29875), (105, 29929), (106, 29950), (107, 29983), (110, 30028), (113, 30082), (115, 30109), (117, 30166), (121, 30187), (123, 30229), (124, 30268), (128, 30328), (146, 30568), (148, 30604), (150, 30637), (152, 30706),

Gene: Usavi_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Usavi_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (147, 30902), (148, 30905), (150, 30938), (151, 30944), (152, 31007),

Gene: Vaishali24_30 Start: 28427, Stop: 30682, Start Num: 5

Candidate Starts for Vaishali24_30:

(Start: 5 @28427 has 314 MA's), (13, 28523), (19, 28601), (20, 28628), (27, 28727), (45, 29066), (48, 29090), (56, 29180), (57, 29186), (59, 29222), (63, 29261), (67, 29303), (68, 29342), (70, 29387), (74, 29438), (78, 29489), (79, 29498), (82, 29567), (86, 29642), (89, 29687), (91, 29702), (101, 29837), (105, 29891), (106, 29912), (107, 29945), (110, 29990), (113, 30044), (117, 30128), (121, 30149), (123, 30191), (124, 30230), (128, 30290), (146, 30530), (147, 30563), (148, 30566), (150, 30599), (151, 30605), (152, 30668),

Gene: Valjean_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Valjean_31:

(Start: 5 @28758 has 314 MA's), (13, 28854), (19, 28932), (20, 28959), (27, 29058), (37, 29217), (45, 29397), (48, 29421), (56, 29511), (57, 29517), (59, 29553), (63, 29592), (65, 29601), (67, 29634), (68, 29673), (70, 29718), (74, 29769), (78, 29820), (79, 29829), (82, 29898), (86, 29973), (89, 30018), (91, 30033), (101, 30168), (105, 30222), (106, 30243), (107, 30276), (110, 30321), (113, 30375), (117,

30459), (121, 30480), (123, 30522), (124, 30561), (128, 30621), (146, 30861), (147, 30894), (148, 30897), (150, 30930), (152, 30999),

Gene: Vaticameos_31 Start: 28456, Stop: 30711, Start Num: 5

Candidate Starts for Vaticameos_31:

(Start: 5 @28456 has 314 MA's), (13, 28552), (19, 28630), (20, 28657), (27, 28756), (37, 28915), (45, 29095), (48, 29119), (56, 29209), (57, 29215), (59, 29251), (63, 29290), (65, 29299), (67, 29332), (68, 29371), (70, 29416), (74, 29467), (78, 29518), (79, 29527), (82, 29596), (86, 29671), (89, 29716), (91, 29731), (101, 29866), (105, 29920), (106, 29941), (107, 29974), (110, 30019), (113, 30073), (115, 30100), (117, 30157), (121, 30178), (123, 30220), (124, 30259), (128, 30319), (146, 30559), (147, 30592), (148, 30595), (150, 30628), (151, 30634), (152, 30697),

Gene: Veritas_30 Start: 28328, Stop: 30583, Start Num: 5

Candidate Starts for Veritas_30:

(Start: 5 @28328 has 314 MA's), (13, 28424), (19, 28502), (20, 28529), (27, 28628), (37, 28787), (45, 28967), (48, 28991), (56, 29081), (57, 29087), (59, 29123), (63, 29162), (65, 29171), (67, 29204), (68, 29243), (70, 29288), (74, 29339), (78, 29390), (79, 29399), (82, 29468), (86, 29543), (89, 29588), (91, 29603), (101, 29738), (105, 29792), (106, 29813), (107, 29846), (110, 29891), (113, 29945), (115, 29972), (117, 30029), (121, 30050), (123, 30092), (124, 30131), (128, 30191), (146, 30431), (147, 30464), (148, 30467), (150, 30500), (151, 30506), (152, 30569),

Gene: Vincenzo_29 Start: 29686, Stop: 31983, Start Num: 5

Candidate Starts for Vincenzo_29:

(Start: 5 @29686 has 314 MA's), (Start: 7 @29701 has 1 MA's), (13, 29785), (14, 29803), (18, 29860), (27, 29989), (41, 30253), (42, 30292), (43, 30298), (45, 30328), (46, 30343), (48, 30352), (54, 30433), (55, 30436), (62, 30535), (63, 30538), (64, 30541), (66, 30553), (71, 30676), (72, 30700), (77, 30763), (81, 30802), (83, 30874), (84, 30895), (85, 30916), (86, 30931), (87, 30952), (89, 30982), (92, 31015), (93, 31018), (94, 31030), (96, 31081), (97, 31084), (98, 31102), (100, 31126), (101, 31132), (105, 31186), (106, 31207), (109, 31261), (110, 31285), (117, 31420), (118, 31426), (119, 31429), (121, 31441), (125, 31525), (134, 31660), (135, 31684), (139, 31747), (143, 31783), (144, 31816), (146, 31831), (147, 31864), (148, 31867), (152, 31969), (153, 31972),

Gene: VioletZ_28 Start: 29041, Stop: 31338, Start Num: 5

Candidate Starts for VioletZ_28:

(Start: 1 @28354 has 1 MA's), (2, 28501), (Start: 5 @29041 has 314 MA's), (13, 29140), (14, 29158), (24, 29281), (27, 29344), (31, 29425), (35, 29491), (41, 29608), (42, 29647), (46, 29698), (48, 29707), (53, 29764), (54, 29788), (55, 29791), (59, 29854), (64, 29896), (66, 29908), (70, 30019), (71, 30031), (72, 30055), (77, 30118), (83, 30229), (84, 30250), (86, 30286), (87, 30307), (93, 30373), (94, 30385), (96, 30436), (97, 30439), (98, 30457), (100, 30481), (103, 30508), (105, 30541), (106, 30562), (107, 30595), (110, 30640), (118, 30781), (119, 30784), (121, 30796), (125, 30880), (133, 30994), (134, 31015), (135, 31039), (139, 31102), (142, 31132), (146, 31186), (147, 31219), (148, 31222), (149, 31246), (152, 31324), (153, 31327),

Gene: Virapocalypse_31 Start: 28752, Stop: 31007, Start Num: 5

Candidate Starts for Virapocalypse_31:

(Start: 5 @28752 has 314 MA's), (13, 28848), (19, 28926), (20, 28953), (27, 29052), (37, 29211), (45, 29391), (48, 29415), (56, 29505), (57, 29511), (59, 29547), (63, 29586), (65, 29595), (67, 29628), (68, 29667), (70, 29712), (74, 29763), (78, 29814), (79, 29823), (82, 29892), (86, 29967), (89, 30012), (91, 30027), (101, 30162), (105, 30216), (106, 30237), (107, 30270), (110, 30315), (113, 30369), (115, 30396), (117, 30453), (121, 30474), (123, 30516), (124, 30555), (128, 30615), (146, 30855), (147, 30888), (148, 30891), (150, 30924), (151, 30930), (152, 30993),

Gene: Virgeve_30 Start: 28527, Stop: 30788, Start Num: 5

Candidate Starts for Virgeve_30:

(Start: 5 @28527 has 314 MA's), (13, 28623), (19, 28701), (20, 28728), (25, 28803), (27, 28833), (37, 28992), (45, 29172), (48, 29196), (57, 29292), (59, 29328), (63, 29367), (65, 29376), (67, 29409), (68, 29448), (70, 29493), (74, 29544), (79, 29604), (82, 29673), (86, 29748), (89, 29793), (91, 29808), (101, 29943), (105, 29997), (106, 30018), (107, 30051), (110, 30096), (113, 30150), (115, 30177), (117, 30234), (121, 30255), (123, 30297), (124, 30336), (128, 30396), (146, 30636), (148, 30672), (150, 30705), (152, 30774),

Gene: Vista_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Vista_31:

(Start: 5 @28766 has 314 MA's), (13, 28862), (19, 28940), (20, 28967), (27, 29066), (37, 29225), (45, 29405), (48, 29429), (56, 29519), (57, 29525), (59, 29561), (63, 29600), (65, 29609), (67, 29642), (68, 29681), (70, 29726), (74, 29777), (78, 29828), (79, 29837), (82, 29906), (86, 29981), (89, 30026), (91, 30041), (101, 30176), (105, 30230), (106, 30251), (107, 30284), (110, 30329), (113, 30383), (115, 30410), (117, 30467), (121, 30488), (123, 30530), (124, 30569), (128, 30629), (146, 30869), (148, 30905), (150, 30938), (152, 31007),

Gene: Vivaldi_31 Start: 28792, Stop: 31050, Start Num: 5

Candidate Starts for Vivaldi_31:

(Start: 5 @28792 has 314 MA's), (13, 28888), (19, 28966), (20, 28993), (27, 29095), (45, 29434), (48, 29458), (57, 29554), (59, 29590), (63, 29629), (67, 29671), (68, 29710), (70, 29755), (74, 29806), (78, 29857), (79, 29866), (82, 29935), (86, 30010), (89, 30055), (91, 30070), (101, 30205), (105, 30259), (106, 30280), (107, 30313), (110, 30358), (113, 30412), (117, 30496), (121, 30517), (123, 30559), (124, 30598), (128, 30658), (146, 30898), (147, 30931), (148, 30934), (150, 30967), (151, 30973), (152, 31036),

Gene: Vortex_31 Start: 28472, Stop: 30727, Start Num: 5

Candidate Starts for Vortex_31:

(Start: 5 @28472 has 314 MA's), (13, 28568), (19, 28646), (20, 28673), (27, 28772), (37, 28931), (45, 29111), (48, 29135), (57, 29231), (59, 29267), (63, 29306), (65, 29315), (67, 29348), (68, 29387), (70, 29432), (74, 29483), (78, 29534), (79, 29543), (82, 29612), (86, 29687), (89, 29732), (91, 29747), (101, 29882), (105, 29936), (106, 29957), (107, 29990), (110, 30035), (113, 30089), (115, 30116), (117, 30173), (121, 30194), (123, 30236), (124, 30275), (128, 30335), (146, 30575), (148, 30611), (150, 30644), (152, 30713),

Gene: Waleliano_28 Start: 28968, Stop: 31265, Start Num: 5

Candidate Starts for Waleliano_28:

(Start: 1 @28281 has 1 MA's), (2, 28428), (Start: 5 @28968 has 314 MA's), (13, 29067), (14, 29085), (24, 29208), (27, 29271), (31, 29352), (35, 29418), (41, 29535), (42, 29574), (46, 29625), (48, 29634), (53, 29691), (54, 29715), (55, 29718), (59, 29781), (64, 29823), (66, 29835), (71, 29958), (72, 29982), (77, 30045), (83, 30156), (84, 30177), (86, 30213), (87, 30234), (93, 30300), (94, 30312), (95, 30354), (96, 30363), (97, 30366), (98, 30384), (99, 30387), (100, 30408), (103, 30435), (105, 30468), (106, 30489), (107, 30522), (110, 30567), (118, 30708), (119, 30711), (121, 30723), (125, 30807), (133, 30921), (134, 30942), (135, 30966), (139, 31029), (142, 31059), (146, 31113), (147, 31146), (148, 31149), (152, 31251), (153, 31254),

Gene: Wallhey_30 Start: 28329, Stop: 30584, Start Num: 5

Candidate Starts for Wallhey_30:

(Start: 5 @28329 has 314 MA's), (13, 28425), (19, 28503), (20, 28530), (27, 28629), (37, 28788), (45, 28968), (48, 28992), (57, 29088), (59, 29124), (63, 29163), (65, 29172), (67, 29205), (68, 29244), (70, 29289), (74, 29340), (78, 29391), (79, 29400), (82, 29469), (86, 29544), (89, 29589), (91, 29604), (101, 29739), (105, 29793), (106, 29814), (107, 29847), (110, 29892), (113, 29946), (115, 29973), (117, 30030), (121, 30051), (123, 30093), (124, 30132), (128, 30192), (146, 30432), (148, 30468), (150,

30501), (152, 30570),

Gene: Waterdiva_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Waterdiva_31:

(Start: 5 @28758 has 314 MA's), (13, 28854), (19, 28932), (20, 28959), (27, 29058), (37, 29217), (45, 29397), (48, 29421), (56, 29511), (57, 29517), (59, 29553), (63, 29592), (65, 29601), (67, 29634), (68, 29673), (70, 29718), (74, 29769), (78, 29820), (79, 29829), (82, 29898), (86, 29973), (89, 30018), (91, 30033), (101, 30168), (105, 30222), (106, 30243), (107, 30276), (110, 30321), (113, 30375), (115, 30402), (117, 30459), (121, 30480), (123, 30522), (124, 30561), (128, 30621), (146, 30861), (147, 30894), (148, 30897), (150, 30930), (151, 30936), (152, 30999),

Gene: Weher20_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for Weher20_31:

(Start: 5 @28757 has 314 MA's), (13, 28853), (19, 28931), (20, 28958), (27, 29057), (37, 29216), (45, 29396), (48, 29420), (56, 29510), (57, 29516), (59, 29552), (63, 29591), (65, 29600), (67, 29633), (68, 29672), (70, 29717), (74, 29768), (78, 29819), (79, 29828), (82, 29897), (86, 29972), (89, 30017), (91, 30032), (101, 30167), (105, 30221), (106, 30242), (107, 30275), (110, 30320), (113, 30374), (115, 30401), (117, 30458), (121, 30479), (123, 30521), (124, 30560), (128, 30620), (146, 30860), (147, 30893), (148, 30896), (150, 30929), (151, 30935), (152, 30998),

Gene: Windsor_30 Start: 28456, Stop: 30717, Start Num: 5

Candidate Starts for Windsor_30:

(Start: 5 @28456 has 314 MA's), (13, 28552), (19, 28630), (20, 28657), (25, 28732), (27, 28762), (37, 28921), (45, 29101), (48, 29125), (57, 29221), (59, 29257), (63, 29296), (65, 29305), (67, 29338), (68, 29377), (70, 29422), (74, 29473), (79, 29533), (82, 29602), (86, 29677), (89, 29722), (91, 29737), (101, 29872), (105, 29926), (106, 29947), (107, 29980), (110, 30025), (113, 30079), (115, 30106), (117, 30163), (121, 30184), (123, 30226), (124, 30265), (128, 30325), (146, 30565), (148, 30601), (150, 30634), (152, 30703),

Gene: Xavier_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Xavier_30:

(Start: 5 @28479 has 314 MA's), (13, 28575), (19, 28653), (20, 28680), (27, 28779), (37, 28938), (45, 29118), (48, 29142), (56, 29232), (57, 29238), (59, 29274), (63, 29313), (65, 29322), (67, 29355), (68, 29394), (70, 29439), (74, 29490), (78, 29541), (79, 29550), (82, 29619), (86, 29694), (89, 29739), (91, 29754), (101, 29889), (105, 29943), (106, 29964), (107, 29997), (110, 30042), (113, 30096), (115, 30123), (117, 30180), (121, 30201), (123, 30243), (124, 30282), (128, 30342), (146, 30582), (147, 30615), (148, 30618), (150, 30651), (151, 30657), (152, 30720),

Gene: Xincheng_27 Start: 28426, Stop: 30714, Start Num: 5

Candidate Starts for Xincheng_27:

(Start: 5 @28426 has 314 MA's), (13, 28525), (14, 28543), (20, 28630), (24, 28666), (27, 28729), (31, 28810), (35, 28876), (41, 28993), (42, 29032), (46, 29083), (48, 29092), (53, 29149), (54, 29173), (55, 29176), (59, 29239), (72, 29440), (75, 29470), (76, 29473), (77, 29503), (83, 29614), (84, 29635), (86, 29671), (87, 29692), (93, 29758), (94, 29770), (96, 29821), (97, 29824), (100, 29866), (103, 29893), (105, 29926), (106, 29947), (107, 29980), (108, 29983), (110, 30025), (111, 30037), (117, 30160), (119, 30169), (121, 30181), (122, 30205), (123, 30223), (124, 30262), (125, 30265), (127, 30319), (129, 30331), (133, 30379), (134, 30400), (146, 30562), (147, 30595), (148, 30598), (152, 30700),

Gene: Yahalom_31 Start: 28626, Stop: 30851, Start Num: 4

Candidate Starts for Yahalom_31:

(Start: 4 @28626 has 49 MA's), (Start: 7 @28641 has 1 MA's), (10, 28686), (14, 28743), (21, 28821), (26, 28890), (27, 28902), (30, 28944), (32, 28980), (33, 29007), (34, 29019), (36, 29046), (39, 29136), (40, 29160), (43, 29208), (52, 29292), (60, 29400), (61, 29421), (68, 29514), (69, 29529), (77, 29658),

(82, 29739), (86, 29814), (88, 29856), (89, 29862), (96, 29961), (101, 30012), (102, 30024), (105, 30066), (106, 30087), (109, 30141), (110, 30165), (112, 30201), (117, 30297), (119, 30306), (123, 30360), (129, 30468), (130, 30495), (134, 30537), (138, 30609), (146, 30699), (148, 30735),

Gene: Yinz_31 Start: 28649, Stop: 30874, Start Num: 4

Candidate Starts for Yinz_31:

(Start: 4 @28649 has 49 MA's), (Start: 7 @28664 has 1 MA's), (10, 28709), (14, 28766), (21, 28844), (26, 28913), (27, 28925), (30, 28967), (32, 29003), (33, 29030), (34, 29042), (36, 29069), (39, 29159), (43, 29231), (52, 29315), (60, 29423), (61, 29444), (68, 29537), (69, 29552), (77, 29681), (82, 29762), (86, 29837), (88, 29879), (89, 29885), (93, 29921), (101, 30035), (102, 30047), (105, 30089), (106, 30110), (109, 30164), (110, 30188), (112, 30224), (117, 30320), (119, 30329), (123, 30383), (129, 30491), (130, 30518), (134, 30560), (138, 30632), (146, 30722), (148, 30758),

Gene: Yoshand_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for Yoshand_31:

(Start: 5 @28765 has 314 MA's), (13, 28861), (19, 28939), (20, 28966), (27, 29065), (37, 29224), (45, 29404), (48, 29428), (56, 29518), (57, 29524), (59, 29560), (63, 29599), (65, 29608), (67, 29641), (68, 29680), (70, 29725), (74, 29776), (78, 29827), (79, 29836), (82, 29905), (86, 29980), (89, 30025), (91, 30040), (101, 30175), (105, 30229), (106, 30250), (107, 30283), (110, 30328), (113, 30382), (117, 30466), (121, 30487), (123, 30529), (124, 30568), (128, 30628), (146, 30868), (147, 30901), (148, 30904), (150, 30937), (151, 30943), (152, 31006),

Gene: YouGoGlencoco_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for YouGoGlencoco_31:

(Start: 5 @28760 has 314 MA's), (13, 28856), (19, 28934), (20, 28961), (27, 29060), (37, 29219), (45, 29399), (48, 29423), (56, 29513), (57, 29519), (59, 29555), (63, 29594), (65, 29603), (67, 29636), (68, 29675), (70, 29720), (74, 29771), (78, 29822), (79, 29831), (82, 29900), (86, 29975), (89, 30020), (91, 30035), (101, 30170), (105, 30224), (106, 30245), (107, 30278), (110, 30323), (113, 30377), (115, 30404), (117, 30461), (121, 30482), (123, 30524), (124, 30563), (128, 30623), (146, 30863), (147, 30896), (148, 30899), (150, 30932), (151, 30938), (152, 31001),

Gene: Zaider_32 Start: 28990, Stop: 31245, Start Num: 5

Candidate Starts for Zaider_32:

(Start: 5 @28990 has 314 MA's), (13, 29086), (19, 29164), (20, 29191), (27, 29290), (37, 29449), (45, 29629), (48, 29653), (56, 29743), (57, 29749), (59, 29785), (63, 29824), (65, 29833), (67, 29866), (68, 29905), (70, 29950), (74, 30001), (78, 30052), (79, 30061), (82, 30130), (86, 30205), (89, 30250), (91, 30265), (101, 30400), (105, 30454), (106, 30475), (107, 30508), (110, 30553), (113, 30607), (115, 30634), (117, 30691), (121, 30712), (123, 30754), (124, 30793), (128, 30853), (146, 31093), (147, 31126), (148, 31129), (150, 31162), (151, 31168), (152, 31231),

Gene: Zelda_31 Start: 28756, Stop: 31011, Start Num: 5

Candidate Starts for Zelda_31:

(Start: 5 @28756 has 314 MA's), (13, 28852), (19, 28930), (20, 28957), (27, 29056), (37, 29215), (45, 29395), (48, 29419), (56, 29509), (57, 29515), (59, 29551), (63, 29590), (65, 29599), (67, 29632), (68, 29671), (70, 29716), (74, 29767), (78, 29818), (79, 29827), (82, 29896), (86, 29971), (89, 30016), (91, 30031), (101, 30166), (105, 30220), (106, 30241), (107, 30274), (110, 30319), (113, 30373), (115, 30400), (117, 30457), (121, 30478), (123, 30520), (124, 30559), (128, 30619), (146, 30859), (148, 30895), (150, 30928), (152, 30997),

Gene: Zemanar_29 Start: 28968, Stop: 31265, Start Num: 5

Candidate Starts for Zemanar_29:

(Start: 5 @28968 has 314 MA's), (13, 29067), (14, 29085), (24, 29208), (27, 29271), (31, 29352), (35, 29418), (41, 29535), (42, 29574), (46, 29625), (48, 29634), (53, 29691), (54, 29715), (55, 29718), (59,

29781), (64, 29823), (66, 29835), (71, 29958), (72, 29982), (77, 30045), (81, 30084), (83, 30156), (84, 30177), (86, 30213), (87, 30234), (93, 30300), (94, 30312), (96, 30363), (97, 30366), (98, 30384), (100, 30408), (103, 30435), (105, 30468), (106, 30489), (107, 30522), (110, 30567), (118, 30708), (119, 30711), (121, 30723), (125, 30807), (133, 30921), (134, 30942), (135, 30966), (139, 31029), (142, 31059), (143, 31065), (146, 31113), (147, 31146), (148, 31149), (152, 31251), (153, 31254),

Gene: Zonia_31 Start: 28779, Stop: 31034, Start Num: 5

Candidate Starts for Zonia_31:

(Start: 5 @28779 has 314 MA's), (13, 28875), (19, 28953), (20, 28980), (27, 29079), (37, 29238), (45, 29418), (48, 29442), (57, 29538), (59, 29574), (63, 29613), (65, 29622), (67, 29655), (68, 29694), (70, 29739), (74, 29790), (78, 29841), (79, 29850), (82, 29919), (86, 29994), (89, 30039), (91, 30054), (101, 30189), (105, 30243), (106, 30264), (107, 30297), (110, 30342), (113, 30396), (115, 30423), (117, 30480), (121, 30501), (123, 30543), (124, 30582), (128, 30642), (146, 30882), (148, 30918), (150, 30951), (152, 31020),