

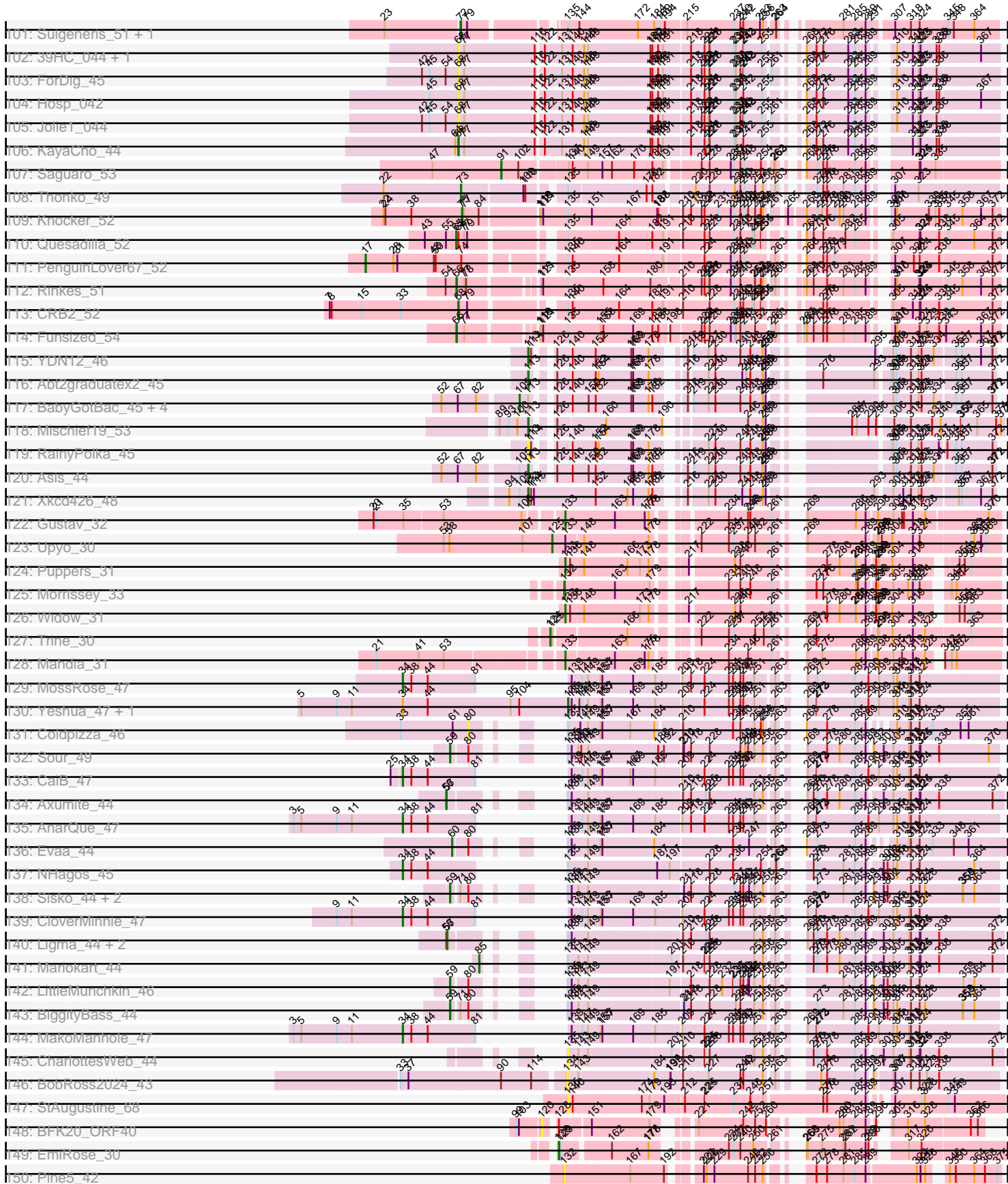
Pham 199889

1: Mikota_51 + 96	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
2: HighStump_51 + 34	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
3: Apizium_51	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
4: Jiminy_50 + 4	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
5: KimbOn_51 + 2	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
6: Weener20_51 + 29	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
7: Suffolk_51 + 4	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
8: Skippy_51 + 31	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
9: Coletti_50 + 5	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
10: Sophia_50 + 8	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
11: Basato_52 + 1	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
12: Crownjwi_51	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
13: Soto_51	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
14: Boenier_51	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
15: Cosmoilf6_50 + 3	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
16: Labeoulcaum_50 + 12	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
17: TailGrassMIM_51 + 16	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
18: Pherdinand_52	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
19: Doddsville_51	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
20: Virgeve_50 + 2	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
21: Duggie_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
22: Valjean_51 + 5	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
23: Antonia_50 + 1	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
24: DuchesseDung_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
25: Aelin_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
26: SDcharge11_51	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
27: Manad_51 + 1	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
28: KLucky39_51	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
29: Schadenfreude_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
30: CampRoach_52	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
31: Imvubu_43	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
32: Indiovu_48	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
33: LiviDreamy_48	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
34: Zenteno07_55	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
35: Hashim76_53	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
36: BirdsiNest_53	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
37: MasterPo_50 + 7	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
38: FrenchFry_50 + 3	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
39: Calamitous_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
40: Holimone_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
41: Blocker23_50 + 4	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
42: Coffee_50 + 10	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
43: ItsyBitsy1_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
44: TAT7A_50 + 1	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
45: Qyrzula_47	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
46: vic9_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
47: Godines_50	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
48: Laurie_49	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
49: Yahanom_49 + 3	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388
50: Nozo_49 + 12	10 12 18 26 36	76 84	9105	136 149	162 167	188 196 213 221 227 231 233	219 226 230	370 375 383 388

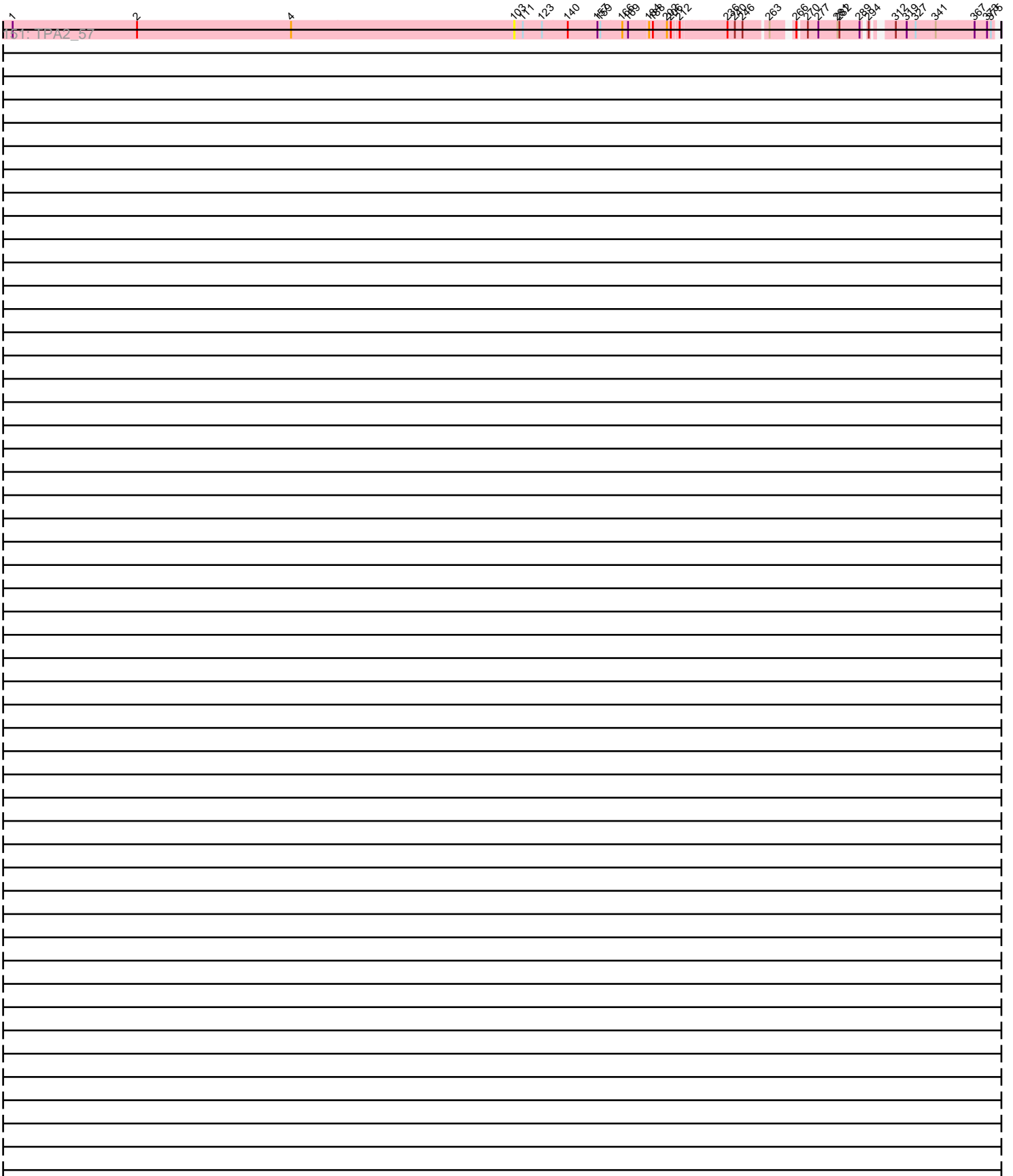
Pham 199889

51: Gadget_50	13				98	100	120	158	167	182	203	231	260	278	
52: Pipefish_51		30			99	102	120	158	161	182	203	231	260	278	289
53: Daisy_49 + 1			30		99	102	120	158	161	182	203	231	260	278	289
54: Phayeta_50 + 2				30	99	102	120	158	161	182	203	231	260	278	289
55: Phaedrus_47					99	102	120	158	161	182	203	231	260	278	289
56: Rita1961_49 + 5					99	102	120	158	161	182	203	231	260	278	289
57: HeatInflit_49 + 6					99	102	120	158	161	182	203	231	260	278	289
58: GienHope_50 + 2					99	102	120	158	161	182	203	231	260	278	289
59: Abinghost_49 + 2					99	102	120	158	161	182	203	231	260	278	289
60: Bernardo_50					99	102	120	158	161	182	203	231	260	278	289
61: Baloo_49 + 2					99	102	120	158	161	182	203	231	260	278	289
62: Chaimers_49					99	102	120	158	161	182	203	231	260	278	289
63: Yinz_49 + 1					99	102	120	158	161	182	203	231	260	278	289
64: TinyTerror_49					99	102	120	158	161	182	203	231	260	278	289
65: Prince_46 + 4				87			131	149	177	200	233	255	279	300	324
66: Zemanar_47 + 1					87		131	149	177	200	233	255	279	300	324
67: JaguarMI_46 + 1					87		131	149	177	200	233	255	279	300	324
68: Lambano_45 + 7					87		131	149	177	200	233	255	279	300	324
69: Apex_47					87		131	149	177	200	233	255	279	300	324
70: ChrisnMich_46					87		131	149	177	200	233	255	279	300	324
71: AlanGrant_48					87		131	149	177	200	233	255	279	300	324
72: Hydro_46					87		131	149	177	200	233	255	279	300	324
73: JAlMaL_46					87		131	149	177	200	233	255	279	300	324
74: Heath_45					87		131	149	177	200	233	255	279	300	324
75: Vincenzo_47					87		131	149	177	200	233	255	279	300	324
76: BobbyK_47					87		131	149	177	200	233	255	279	300	324
77: Nigel_45					87		131	149	177	200	233	255	279	300	324
78: Stinger_45					87		131	149	177	200	233	255	279	300	324
79: Magpie_45 + 1					87		131	149	177	200	233	255	279	300	324
80: Walelano_46					87		131	149	177	200	233	255	279	300	324
81: BrownCINA_48					87		131	149	177	200	233	255	279	300	324
82: RawrgerThat_47					87		131	149	177	200	233	255	279	300	324
83: Frederick_47					87		131	149	177	200	233	255	279	300	324
84: Mithri_46					87		131	149	177	200	233	255	279	300	324
85: Faraw_45					87		131	149	177	200	233	255	279	300	324
86: QueenPie_45					87		131	149	177	200	233	255	279	300	324
87: Cooper_47				44		113	136	144	173	200	229	254	279	300	324
88: StinkyVeggy_51 + 1		23					133	144	173	200	229	254	279	300	324
89: EastView9T01_49			36			100	133	144	173	200	229	254	279	300	324
90: SirJenferly_50 + 1				36			133	144	173	200	229	254	279	300	324
91: Nehemiah_50					36		133	144	173	200	229	254	279	300	324
92: Mysterious_51					36		133	144	173	200	229	254	279	300	324
93: Reprobate_50					36		133	144	173	200	229	254	279	300	324
94: Rich_49					36		133	144	173	200	229	254	279	300	324
95: Serendipitous_50					36		133	144	173	200	229	254	279	300	324
96: Phelemich_49					36		133	144	173	200	229	254	279	300	324
97: Nangang_50					36		133	144	173	200	229	254	279	300	324
98: Baee_50					36		133	144	173	200	229	254	279	300	324
99: DigitDog_50 + 1	6	18			110		133	144	173	200	229	254	279	300	324
100: Acadian_51					110		133	144	173	200	229	254	279	300	324

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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 199889 Report

This analysis was run 01/18/25 on database version 583.

Pham number 199889 has 494 members, 68 are drafts.

Phages represented in each track:

- Track 1 : Mikota_51, Fozzie_50, CamL_51, Mosaic_50, Altwerkus_50, BlueHusk_51, MRabcd_50, ThreeOh3D2_52, Windsor_50, LeiMonet_52, True_50, Daka_52, ShiVal_51, YouGoGlencoco_51, Serendipity_51, Kloppinator_52, IsaacEli_52, Fringe_52, DirtJuice_51, Mesmerelda_52, Toni_50, Chorkpop_51, Pipsqueak_51, Virapocalypse_51, Burr_50, Morty_52, Grand2040_50, MrPhizzler_50, Vaticameos_47, Prickles_51, JangoPhett_51, Horchata_51, Jesabah_51, Solosis_50, Timmi_50, Riggan_51, Mcshane_50, Olive_51, Swish_52, BlackStallion_52, Gareth_50, Phipps_51, Jillium_50, Slatt_51, Quisquiliae_51, Kwadwo_50, Kikipoo_52, Robyn_50, DaddyDaniels_51, Lasso_51, Tooj_51, QueenBeane_51, Mana_50, Olak_50, Dingo_51, Roscoe_52, JacAttac_52, Puhltonio_51, Longacauda_50, Khan1_51, Lego3393_50, Sigman_52, Badfish_52, LemonSlice_51, Morgushi_51, Bluephacebaby_50, FriarPreacher_50, Rimu_53, EmpTee_51, Podrick_51, Cannibal_51, Beaglebox_50, Buckeye_51, Sheila_51, Samaymay_51, Haleema_50, Scrick_51, LostAndPhound_50, Katniss_52, Dice_50, Pacifista_50, Chaelin_51, Spartan300_51, Cher_50, Scoot17C_52, Held_51, Simielle_50, Vaishali24_50, Roliet_51, Phamished_52, Nyala_50, FluffyNinja_52, Chah_53, Megatron_52, Banjo_50, Vortex_51, Tomlarah_51
- Track 2 : HighStump_51, Hartsy_51, Piglet_0051, Kahve_50, Omniscient_51, Eugenia_51, Mutante_50, Placalicious_50, Zaider_52, Frankicide_51, Surely_51, Childish_50, ABU_52, Serpentine_0051, Soile_51, Nacho_0052, Vista_51, Waterdiva_51, UncleHowie_51, Iridessa_52, AngelCake_50, Mecca_50, Kimbrough_51, Craff_52, Matalotodo_51, Zelda_51, Brilliant_51, Charles1_51, Usavi_51, Murdoc_51, Squiggle_51, FugateOSU_50, Gwilliam_52, OliverWalter_51, PG1_52
- Track 3 : Apizium_51
- Track 4 : Jiminy_50, JakeO_50, Struggle_50, Hocus_50, JDog_50
- Track 5 : KlimbOn_51, Newman_51, Inverness_51
- Track 6 : Weher20_51, ImtiyazSitla_51, Dati_51, Emiris_52, Trypo_52, CharlieGBrown_50, Maskar_51, Phergie_51, BatteryCK_50, Phleuron_50, Etaye_51, Melc17_51, MichaelPhcott_50, PhenghisKhan_50, KingTut_42, PhrankReynolds_49, Inchworm_52, Gwennie1_51, Carthage_49, Mag7_50, Ashraf_51, Oline_50, Gophee_51, Kailash_51, MelsMeow_51, Lumine_50, Durga_52, Magic8_51, Kwksand96_50, Cobra_51
- Track 7 : Suffolk_51, Anderson_51, Oosterbaan_51, Lulumae_50, Chunky_51
- Track 8 : Skippy_51, Roy17_51, HSavage_51, Cornobble_50, Haimas_51, Dione_50, Orwigg_52, Lulwa_51, CheetO_51, Hamish_51, DoesntMatter_50, Bishoperium_50, Nicole21_51, Freya_50, ElvisPhasley_54, OSmaximus_52,

Phareon_51, Hertubise_51, Caspiroi_52, PhrodoBaggins_51, LasagnaCat_52, Thora_51, LuckyMarjie_50, Eremos_51, Telesworld_50, RedMaple_51, Phunky_51, Giraffe_51, Iridoclysis_51, Numberten_51, Harvey_51, Plmatters_51

- Track 9 : Coletti_50, Jiraiya_53, Keitherie_51, PinheadLarry_51, Thunderbird_50, Chute_50
- Track 10 : Sophia_50, Hetaeria_51, Andre_52, UAch1_51, Fang_52, ProfessorX_51, Pops_51, Gyarad_0051, DonSanchon_50
- Track 11 : Basato_52, Nathan_52
- Track 12 : Crownjwl_51
- Track 13 : Soto_51
- Track 14 : Boehler_51
- Track 15 : Cosmolli16_50, AbsoluteMadLad_50, AltPhacts_51, Mesh1_51
- Track 16 : Labeouficaum_50, Derpp_50, Squid_51, MitKao_51, Zonia_51, Wallhey_50, Potter_50, TyrionL_50, TomBombadil_51, GeneCoco_51, SassyCat97_50, Xavier_50, Pinkman_50
- Track 17 : TallGrassMM_51, Maru_50, Daffy_51, MiniBoss_51, DelRivs_50, Selr12_51, Ricotta_50, Legolas_51, Adriana_52, Orion_52, Colbert_51, KingVeVeVe_51, Megamind20_51, PhatCats2014_52, Orfeu_50, Yoshand_52, SilverBell_51
- Track 18 : Pherdinand_52
- Track 19 : Doddsville_51
- Track 20 : Virgeve_50, Schueller_51, Veritas_50
- Track 21 : Duggie_50
- Track 22 : Valjean_51, Mulan_51, HenryJackson_50, PhatLouie_51, LeeLot_51, Swiphy_53
- Track 23 : Antonia_50, Vivaldi_52
- Track 24 : DuchessDung_50
- Track 25 : Aelin_50
- Track 26 : SDcharge11_51
- Track 27 : Manad_51, Lopsy_50
- Track 28 : KLucky39_51
- Track 29 : Schadenfreude_50
- Track 30 : CampRoach_52
- Track 31 : Imvubu_43
- Track 32 : Indlovu_48
- Track 33 : LilMcDreamy_48
- Track 34 : Zenteno07_55
- Track 35 : Hashim76_53
- Track 36 : BirdsNest_53
- Track 37 : MasterPo_50, Bananafish_50, Phantasmagoria_50, Kolhan_50, Faze9_49, Eaglehorse_50, Boyle_50, Ares_50
- Track 38 : FrenchFry_50, Lars_50, Glass_50, LizLemon_50
- Track 39 : Calamitous_50
- Track 40 : Holeinone_50
- Track 41 : Blocker23_50, Lephleur_50, LilSmirk_50, Kheth_50, Rhinoforte_50
- Track 42 : Coffee_50, Arbiter_49, Tinciduntolum_51, Kaleb_50, Brownie5_50, West99_50, Opia_50, Allegro_50, Hedgerow_50, Tres_50, Rosebush_49
- Track 43 : ItsyBitsy1_50
- Track 44 : TA17A_50, Sabella_49
- Track 45 : Qyrzula_47
- Track 46 : Vic9_50
- Track 47 : Godines_50
- Track 48 : Laurie_49

- Track 49 : Yahalom_49, LestyG_49, RomaT_49, Kronus_48
- Track 50 : Nozo_49, Philly_48, Compostia_50, Morty007_49, Halfpint_48, Chandler_49, OrangeOswald_49, SynergyX_49, Jackstina_46, Kamiyu_49, Akoma_49, Tydolla_49, Corofin_49
- Track 51 : Gadget_50
- Track 52 : Pipefish_51
- Track 53 : Daisy_49, Neos5_49
- Track 54 : Phayeta_50, Glubnar_49, SlippinJimmy_49
- Track 55 : Phaedrus_47
- Track 56 : Rita1961_49, Obutu_49, Gervas_49, Mortcellus_48, MmasiCarm_49, SwainyDoc_49
- Track 57 : Heathcliff_49, HarveySr_49, Devonte_49, Deenasa_49, Athena_50, Briakila_50, RagingRooster_49
- Track 58 : GlenHope_50, Marley1013_49, Chentzyk_49
- Track 59 : Abinghost_49, Casbah_48, Phlyer_49
- Track 60 : Bernardo_50
- Track 61 : Baloo_49, Ben11_48, Audrey_49
- Track 62 : Chalmers_49
- Track 63 : Yinz_49, ChaChing_49
- Track 64 : TinyTerror_49
- Track 65 : Prince_46, VioletZ_48, Austelle_47, Lolalove_47, Mudslide_46
- Track 66 : Zemanar_47, Hangman_46
- Track 67 : JaguarMi_46, Xincheng_45
- Track 68 : Lambano_45, Antihero_45, Epah_45, GinPorsche_45, Hally898_45, Nanao_45, Ahwei_45, Poster_45
- Track 69 : Apex_47
- Track 70 : ChrisnMich_46
- Track 71 : AlanGrant_48
- Track 72 : Hydro_46
- Track 73 : JAMaL_46
- Track 74 : Heath_45
- Track 75 : Vincenzo_47
- Track 76 : BobbyK_47
- Track 77 : Nigel_45
- Track 78 : Stinger_45
- Track 79 : Magpie_45, Fortunato_47
- Track 80 : Waleliano_46
- Track 81 : BrownCNA_48
- Track 82 : RawrgerThat_47
- Track 83 : Frederick_47
- Track 84 : Mithril_46
- Track 85 : Fanaw_45
- Track 86 : QueenPie_45
- Track 87 : Cooper_47
- Track 88 : StinkyVeggy_51, KarasumaRum_51
- Track 89 : EastView9101_49
- Track 90 : SirJeffery_50, Rita130_50
- Track 91 : Nehemiah_50
- Track 92 : Mysterious_51
- Track 93 : Reprobate_50
- Track 94 : Rich_49
- Track 95 : Serendipitous_50
- Track 96 : Phelemich_49

- Track 97 : Nangang_50
- Track 98 : Bae_50
- Track 99 : DigitDog_50, Shenyu_50
- Track 100 : Acadian_51
- Track 101 : Suigeneris_51, Donny_51
- Track 102 : 39HC_044, 40BC_044
- Track 103 : ForDig_45
- Track 104 : Hosp_042
- Track 105 : Jolie1_044
- Track 106 : KayaCho_44
- Track 107 : Saguario_53
- Track 108 : Thonko_49
- Track 109 : Knocker_52
- Track 110 : Quesadilla_52
- Track 111 : PenguinLover67_52
- Track 112 : Rinkes_51
- Track 113 : CRB2_52
- Track 114 : Funsized_54
- Track 115 : YDN12_46
- Track 116 : Abt2graduatex2_45
- Track 117 : BabyGotBac_45, TP1604_44, Salete_44, Maih_43, BayC_44
- Track 118 : Mischief19_53
- Track 119 : RainyPolka_45
- Track 120 : Asis_44
- Track 121 : Xkcd426_48
- Track 122 : Gustav_32
- Track 123 : Upyo_30
- Track 124 : Puppies_31
- Track 125 : Morrissey_33
- Track 126 : Widow_31
- Track 127 : Trine_30
- Track 128 : Mahdia_31
- Track 129 : MossRose_47
- Track 130 : Yeshua_47, Wooper_47
- Track 131 : Coldpizza_46
- Track 132 : Sour_49
- Track 133 : CaiB_47
- Track 134 : Axumite_44
- Track 135 : AnarQue_47
- Track 136 : Evaa_44
- Track 137 : NHagos_45
- Track 138 : Sisko_44, AnClar_45, Yago84_44
- Track 139 : CloverMinnie_47
- Track 140 : Ligma_44, Fresco_44, Shatter_44
- Track 141 : Mariokart_44
- Track 142 : LittleMunchkin_46
- Track 143 : BiggityBass_44
- Track 144 : MakoManhole_47
- Track 145 : CharlottesWeb_44
- Track 146 : BobRoss2024_43
- Track 147 : StAugustine_68
- Track 148 : BFK20_ORF40
- Track 149 : EmiRose_30

- Track 150 : Pine5_42
- Track 151 : TPA2_57

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

The start number called the most often in the published annotations is 74, it was called in 212 of the 426 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_52, Altwerkus_50, Andre_52, AngelCake_50, Ashraf_51, Badfish_52, Banjo_50, BatteryCK_50, Beaglebox_50, Bishoperium_50, BlackStallion_52, BlueHusk_51, Bluephacebaby_50, Brilliant_51, Buckeye_51, Burr_50, CamL_51, CampRoach_52, Cannibal_51, Carthage_49, Caspiboi_52, Chaelin_51, Chah_53, Charles1_51, CharlieGBrown_50, CheetO_51, Cher_50, Childish_50, Chorkpop_51, Cobra_51, Cornobble_50, Craff_52, DaddyDaniels_51, Daka_52, Dati_51, Derpp_50, Dice_50, Dingo_51, Dione_50, DirtJuice_51, DoesntMatter_50, DonSanchon_50, Durga_52, ElvisPhasley_54, Emiris_52, EmpTee_51, Eremos_51, Etaye_51, Eugenia_51, Fang_52, FluffyNinja_52, Fozzie_50, Frankicide_51, Freya_50, FriarPreacher_50, Fringe_52, FugateOSU_50, Gareth_50, GeneCoco_51, Giraffe_51, Gophee_51, Grand2040_50, Gwennie1_51, Gwilliam_52, Gyarad_0051, HSavage_51, Haimas_51, Haleema_50, Hamish_51, Hartsy_51, Harvey_51, Held_51, Hertubise_51, Hetaeria_51, HighStump_51, Horchata_51, ImtiyazSitla_51, Inchworm_52, Indlovu_48, Inverness_51, Iridessa_52, Iridoclysis_51, IsaacEli_52, JacAttac_52, JangoPhett_51, Jesabah_51, Jillium_50, Kahve_50, Kailash_51, Katniss_52, Khan1_51, Kikipoo_52, Kimbrough_51, KingTut_42, KlimbOn_51, Kloppinator_52, Kwadwo_50, Kwksand96_50, Labeouficaum_50, LasagnaCat_52, Lasso_51, Lego3393_50, LeiMonet_52, LemonSlice_51, Longacauda_50, Lopsy_50, LostAndPhound_50, LuckyMarjie_50, Lulwa_51, Lumine_50, MRabcd_50, Mag7_50, Magic8_51, Mana_50, Manad_51, Maskar_51, Matalotodo_51, Mcshane_50, Mecca_50, Megatron_52, Melc17_51, MelsMeow_51, Mesmerelda_52, MichaelPhcott_50, Mikota_51, MitKao_51, Morgushi_51, Morty_52, Mosaic_50, MrPhizzler_50, Murdoc_51, Mutante_50, Nacho_0052, Newman_51, Nicole21_51, Numberten_51, Nyala_50, OSmaximus_52, Olak_50, Oline_50, Olive_51, OliverWalter_51, Omniscient_51, Orwigg_52, PG1_52, Pacifista_50, Phamished_52, Phareon_51, PhenghisKhan_50, Pherdinand_52, Phergie_51, Phipps_51, Phleuron_50, PhrankReynolds_49, PhrodoBaggins_51, Phunky_51, Piglet_0051, Pinkman_50, Pipsqueak_51, Placalicious_50, Plmatters_51, Podrick_51, Pops_51, Potter_50, Prickles_51, ProfessorX_51, Puhltonio_51, QueenBeane_51, Quisquiliae_51, RedMaple_51, Riggan_51, Rimu_53, Robyn_50, Roliet_51, Roscoe_52, Roy17_51, Samaymay_51, SassyCat97_50, Scoot17C_52, Scrick_51, Serendipity_51, Serpentine_0051, Sheila_51, ShiVal_51, Sigman_52, Simielle_50, Skippy_51, Slatt_51, Soile_51, Solosis_50, Sophia_50, Soto_51, Spartan300_51, Squid_51, Squiggle_51, Surely_51, Swish_52, Telesworld_50, Thora_51, ThreeOh3D2_52, Timmi_50, TomBombadil_51, Tomlarah_51, Toni_50, Tooj_51, True_50, Trypo_52, TyrionL_50, UAch1_51, UncleHowie_51, Usavi_51, Vaishali24_50, Vaticameos_47, Virapocalypse_51, Vista_51, Vortex_51, Wallhey_50, Waterdiva_51, Weher20_51, Windsor_50, Xavier_50, YouGoGlencoco_51, Zaider_52, Zelda_51, Zonia_51,

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

- Adriana_52, Anderson_51, Boehler_51, Chunky_51, Colbert_51, Daffy_51, DelRivs_50, Doddsville_51, HenryJackson_50, KLucky39_51, KingVeVeVe_51, LeeLot_51, Legolas_51, Lulumae_50, Maru_50, Megamind20_51, MiniBoss_51, Mulan_51, Oosterbaan_51, Orfeu_50, Orion_52, PenguinLover67_52, PhatCats2014_52, PhatLouie_51, Ricotta_50, Selr12_51, SilverBell_51, Suffolk_51, Swiphy_53, TallGrassMM_51, Valjean_51, Yoshand_52,

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

- 39HC_044, 40BC_044, Abinghost_49, AbsoluteMadLad_50, Abt2graduatex2_45, Acadian_51, Aelin_50, Ahwei_45, Akoma_49, AlanGrant_48, Allegro_50, AltPhacts_51, AnClar_45, AnarQue_47, Antihero_45, Antonia_50, Apex_47, Apizium_51, Arbiter_49, Ares_50, Asis_44, Athena_50, Audrey_49, Austelle_47, Axumite_44, BFK20_ORF40, BabyGotBac_45, Bae_50, Baloo_49, Bananafish_50, Basato_52, BayC_44, Ben11_48, Bernardo_50, BiggityBass_44, BirdsNest_53, Blocker23_50, BobRoss2024_43, BobbyK_47, Boyle_50, Briakila_50, BrownCNA_48, Brownie5_50, CRB2_52, CaiB_47, Calamitous_50, Casbah_48, ChaChing_49, Chalmers_49, Chandler_49, CharlottesWeb_44, Chentzyk_49, ChrisnMich_46, Chute_50, CloverMinnie_47, Coffee_50, Coldpizza_46, Coletti_50, Compostia_50, Cooper_47, Corofin_49, Cosmolli16_50, Crownjwl_51, Daisy_49, Deenasa_49, Devonte_49, DigitDog_50, Donny_51, DuchessDung_50, Duggie_50, Eaglehorse_50, EastView9101_49, EmiRose_30, Epah_45, Evaa_44, Fanaw_45, Faze9_49, ForDig_45, Fortunato_47, Frederick_47, FrenchFry_50, Fresco_44, Funsized_54, Gadget_50, Gervas_49, GinPorsche_45, Glass_50, GlenHope_50, Glubnar_49, Godines_50, Gustav_32, Halfpint_48, Hally898_45, Hangman_46, HarveySr_49, Hashim76_53, Heath_45, Heathcliff_49, Hedgerow_50, Hocus_50, Holeinone_50, Hosp_042, Hydro_46, Imvubu_43, ItsyBitsy1_50, JAMaL_46, JDog_50, Jackstina_46, JaguarMi_46, JakeO_50, Jiminy_50, Jiraiya_53, Jolie1_044, Kaleb_50, Kamiyu_49, KarasumaRum_51, KayaCho_44, Keitherie_51, Kheth_50, Knocker_52, Kolhan_50, Kronus_48, Lambano_45, Lars_50, Laurie_49, Lephleur_50, LestyG_49, Ligma_44, LilMcDreamy_48, LilSmirk_50, LittleMunchkin_46, LizLemon_50, Lolalove_47, Magpie_45, Mahdia_31, Maih_43, MakoManhole_47, Mariokart_44, Marley1013_49, MasterPo_50, Mesh1_51, Mischief19_53, Mithril_46, MmasiCarm_49, Morrissey_33, Mortcellus_48, Morty007_49, MossRose_47, Mudslide_46, Mysterious_51, NHagos_45, Nanao_45, Nangang_50, Nathan_52, Nehemiah_50, Neos5_49, Nigel_45, Nozo_49, Obutu_49, Opia_50, OrangeOswald_49, Phaedrus_47, Phantasmagoria_50, Phayeta_50, Phelemich_49, Philly_48, Phlyer_49, Pine5_42, PinheadLarry_51, Pipefish_51, Poster_45, Prince_46, Puppies_31, QueenPie_45, Quesadilla_52, Qyrzula_47, RagingRooster_49, RainyPolka_45, RawrgerThat_47, Reprobate_50, Rhinoforte_50, Rich_49, Rinkes_51, Rita130_50, Rita1961_49, RomaT_49, Rosebush_49, SDcharge11_51, Sabella_49, Saguaro_53, Salette_44, Schadenfreude_50, Schueller_51, Serendipitous_50, Shatter_44, Shenyu_50, SirJeffery_50, Sisko_44, SlippinJimmy_49, Sour_49, StAugustine_68, Stinger_45, StinkyVeggy_51, Struggle_50, Suigeneris_51, SwainyDoc_49, SynergyX_49, TA17A_50, TP1604_44, TPA2_57, Thonko_49, Thunderbird_50, Tinciduntolum_51, TinyTerror_49, Tres_50, Trine_30, Tydolla_49, Upyo_30, Veritas_50, Vic9_50, Vincenzo_47, VioletZ_48, Virgeve_50, Vivaldi_52, Waleliano_46, West99_50, Widow_31, Wooper_47, Xincheng_45, Xkcd426_48, YDN12_46, Yago84_44, Yahalom_49, Yeshua_47, Yinz_49, Zemanar_47, Zenteno07_55,

Summary by start number:

Start 17:

- Found in 1 of 494 (0.2%) of genes in pham

- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PenguinLover67_52 (B9),

Start 30:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gadget_50 (B3),

Start 32:

- Found in 51 of 494 (10.3%) of genes in pham
- Manual Annotations of this start: 9 of 426
- Called 29.4% of time when present
- Phage (with cluster) where this start called: Audrey_49 (B3), Baloo_49 (B3), Ben11_48 (B3), Chalmers_49 (B3), Chentzyk_49 (B3), GlenHope_50 (B3), Glubnar_49 (B3), Kronus_48 (B3), LestyG_49 (B3), Marley1013_49 (B3), Phayeta_50 (B3), RomaT_49 (B3), SlippinJimmy_49 (B3), TinyTerror_49 (B3), Yahalom_49 (B3),

Start 34:

- Found in 59 of 494 (11.9%) of genes in pham
- Manual Annotations of this start: 41 of 426
- Called 71.2% of time when present
- Phage (with cluster) where this start called: Abinghost_49 (B3), Akoma_49 (B3), AnarQue_47 (DR), Athena_50 (B3), Bernardo_50 (B3), Briakila_50 (B3), CaiB_47 (DR), Casbah_48 (B3), ChaChing_49 (B3), Chandler_49 (B3), CloverMinnie_47 (DR), Compostia_50 (B3), Corofin_49 (B3), Daisy_49 (B3), Deenasa_49 (B3), Devonte_49 (B3), Gervas_49 (B3), Halfpint_48 (B3), HarveySr_49 (B3), Heathcliff_49 (B3), Jackstina_46 (B3), Kamiyu_49 (B3), MakoManhole_47 (DR), MmasiCarm_49 (B3), Mortcellus_48 (B3), Morty007_49 (B3), MossRose_47 (DR), NHagos_45 (DR), Neos5_49 (B3), Nozo_49 (B3), Obutu_49 (B3), OrangeOswald_49 (B3), Phaedrus_47 (B3), Philly_48 (B3), Phlyer_49 (B3), Pipefish_51 (B3), RagingRooster_49 (B3), Rita1961_49 (B3), SwainyDoc_49 (B3), SynergyX_49 (B3), Tydolla_49 (B3), Yinz_49 (B3),

Start 39:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zenteno07_55 (B13),

Start 40:

- Found in 2 of 494 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_53 (B13), Hashim76_53 (B13),

Start 56:

- Found in 4 of 494 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Axumite_44 (DR),

Start 57:

- Found in 4 of 494 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 426
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Fresco_44 (DR), Ligma_44 (DR), Shatter_44 (DR),

Start 59:

- Found in 6 of 494 (1.2%) of genes in pham
- Manual Annotations of this start: 6 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnClar_45 (DR), BiggityBass_44 (DR), LittleMunchkin_46 (DR), Sisko_44 (DR), Sour_49 (DR), Yago84_44 (DR),

Start 60:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Evaa_44 (DR),

Start 63:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilMcDreamy_48 (B12),

Start 65:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Quesadilla_52 (B9),

Start 66:

- Found in 2 of 494 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Funsized_54 (B9), Rinkes_51 (B9),

Start 68:

- Found in 8 of 494 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 426
- Called 87.5% of time when present
- Phage (with cluster) where this start called: 39HC_044 (B6), 40BC_044 (B6), CRB2_52 (B9), ForDig_45 (B6), Hosp_042 (B6), Jolie1_044 (B6), KayaCho_44 (B6),

Start 70:

- Found in 32 of 494 (6.5%) of genes in pham
- Manual Annotations of this start: 9 of 426
- Called 28.1% of time when present
- Phage (with cluster) where this start called: Apex_47 (B4), BrownCNA_48 (B4), ChrisnMich_46 (B4), Fortunato_47 (B4), Hangman_46 (B4), JAMaL_46 (B4), Magpie_45 (B4), Stinger_45 (B4), Zemanar_47 (B4),

Start 71:

- Found in 32 of 494 (6.5%) of genes in pham
- Manual Annotations of this start: 18 of 426
- Called 71.9% of time when present
- Phage (with cluster) where this start called: AbsoluteMadLad_50 (B1), Aelin_50 (B1), AltPhacts_51 (B1), Apizium_51 (B1), Basato_52 (B1), Chute_50 (B1), Coletti_50 (B1), Cosmolli16_50 (B1), DuchessDung_50 (B1), Hocus_50 (B1), JDog_50 (B1), JakeO_50 (B1), Jiminy_50 (B1), Jiraiya_53 (B1), Keitherie_51 (B1), Mesh1_51 (B1), Nathan_52 (B1), PinheadLarry_51 (B1), Schueller_51 (B1), Struggle_50 (B1), Thunderbird_50 (B1), Veritas_50 (B1), Virgeve_50 (B1),

Start 72:

- Found in 70 of 494 (14.2%) of genes in pham
- Manual Annotations of this start: 8 of 426
- Called 21.4% of time when present
- Phage (with cluster) where this start called: Acadian_51 (B5), Bae_50 (B5), DigitDog_50 (B5), Donny_51 (B5), EastView9101_49 (B5), KarasumaRum_51 (B5), Mysterious_51 (B5), Nangang_50 (B5), Nehemiah_50 (B5), Reprobate_50 (B5), Rich_49 (B5), Serendipitous_50 (B5), Shenyu_50 (B5), StinkyVeggy_51 (B5), Suigeneris_51 (B5),

Start 73:

- Found in 37 of 494 (7.5%) of genes in pham
- Manual Annotations of this start: 15 of 426
- Called 73.0% of time when present
- Phage (with cluster) where this start called: Ahwei_45 (B4), Antihero_45 (B4), Austelle_47 (B4), BobbyK_47 (B4), Epah_45 (B4), Fanaw_45 (B4), Frederick_47 (B4), GinPorsche_45 (B4), Hally898_45 (B4), Heath_45 (B4), Hydro_46 (B4), JaguarMi_46 (B4), Lambano_45 (B4), Lolalove_47 (B4), Mithril_46 (B4), Mudslide_46 (B4), Nanao_45 (B4), Nigel_45 (B4), Poster_45 (B4), Prince_46 (B4), QueenPie_45 (B4), RawrgerThat_47 (B4), Thonko_49 (B8), Vincenzo_47 (B4), VioletZ_48 (B4), Waleliano_46 (B4), Xincheng_45 (B4),

Start 74:

- Found in 257 of 494 (52.0%) of genes in pham
- Manual Annotations of this start: 212 of 426
- Called 87.5% of time when present
- Phage (with cluster) where this start called: ABU_52 (B1), Altwerkus_50 (B1), Andre_52 (B1), AngelCake_50 (B1), Ashraf_51 (B1), Badfish_52 (B1), Banjo_50 (B1), BatteryCK_50 (B1), Beaglebox_50 (B1), Bishoperium_50 (B1), BlackStallion_52 (B1), BlueHusk_51 (B1), Bluephacebaby_50 (B1), Brilliant_51 (B1), Buckeye_51 (B1), Burr_50 (B1), CamL_51 (B1), CampRoach_52 (B1), Cannibal_51 (B1), Carthage_49 (B1), Caspiboi_52 (B1), Chaelin_51 (B1), Chah_53 (B1), Charles1_51 (B1), CharlieGBrown_50 (B1), CheetO_51 (B1), Cher_50 (B1), Childish_50 (B1), Chorkpop_51 (B1), Cobra_51 (B1), Cornobble_50 (B1), Craff_52 (B1), DaddyDaniels_51 (B1), Daka_52 (B1), Dati_51 (B1), Derpp_50 (B1), Dice_50 (B1), Dingo_51 (B1), Dione_50 (B1), DirtJuice_51 (B1), DoesntMatter_50 (B1), DonSanchon_50 (B1), Durga_52 (B1), ElvisPhasley_54 (B1), Emiris_52 (B1), EmpTee_51 (B1), Eremos_51 (B1), Etaye_51 (B1), Eugenia_51 (B1), Fang_52 (B1), FluffyNinja_52 (B1), Fozzie_50 (B1), Frankicide_51 (B1), Freya_50 (B1), FriarPreacher_50 (B1), Fringe_52 (B1), FugateOSU_50 (B1), Gareth_50 (B1), GeneCoco_51 (B1), Giraffe_51 (B1), Gophee_51 (B1), Grand2040_50 (B1),

Gwennie1_51 (B1), Gwilliam_52 (B1), Gyarad_0051 (B1), HSavage_51 (B1), Haimas_51 (B1), Haleema_50 (B1), Hamish_51 (B1), Hartsy_51 (B1), Harvey_51 (B1), Held_51 (B1), Hertubise_51 (B1), Hetaeria_51 (B1), HighStump_51 (B1), Horchata_51 (B1), ImtiyazSitla_51 (B1), Inchworm_52 (B1), Indlovu_48 (B11), Inverness_51 (B1), Iridessa_52 (B1), Iridoclysis_51 (B1), IsaacEli_52 (B1), JacAttac_52 (B1), JangoPhett_51 (B1), Jesabah_51 (B1), Jillium_50 (B1), Kahve_50 (B1), Kailash_51 (B1), Katniss_52 (B1), Khan1_51 (B1), Kikipoo_52 (B1), Kimbrough_51 (B1), KingTut_42 (B1), KlimbOn_51 (B1), Kloppinator_52 (B1), Kwadwo_50 (B1), Kwksand96_50 (B1), Labeouficaum_50 (B1), LasagnaCat_52 (B1), Lasso_51 (B1), Lego3393_50 (B1), LeiMonet_52 (B1), LemonSlice_51 (B1), Longacauda_50 (B1), Lopsy_50 (B1), LostAndPhound_50 (B1), LuckyMarjie_50 (B1), Lulwa_51 (B1), Lumine_50 (B1), MRabcd_50 (B1), Mag7_50 (B1), Magic8_51 (B1), Mana_50 (B1), Manad_51 (B1), Maskar_51 (B1), Matalotodo_51 (B1), Mcshane_50 (B1), Mecca_50 (B1), Megatron_52 (B1), Melc17_51 (B1), MelsMeow_51 (B1), Mesmerelda_52 (B1), MichaelPhcott_50 (B1), Mikota_51 (B1), MitKao_51 (B1), Morgushi_51 (B1), Morty_52 (B1), Mosaic_50 (B1), MrPhizzler_50 (B1), Murdoc_51 (B1), Mutante_50 (B1), Nacho_0052 (B1), Newman_51 (B1), Nicole21_51 (B1), Numberten_51 (B1), Nyala_50 (B1), OSmaximus_52 (B1), Olak_50 (B1), Oline_50 (B1), Olive_51 (B1), OliverWalter_51 (B1), Omniscient_51 (B1), Orwigg_52 (B1), PG1_52 (B1), Pacifista_50 (B1), Phamished_52 (B1), Phareon_51 (B1), Phenghiskhan_50 (B1), Pherdinand_52 (B1), Phergie_51 (B1), Phipps_51 (B1), Phleuron_50 (B1), PhrankReynolds_49 (B1), PhrodoBaggins_51 (B1), Phunky_51 (B1), Piglet_0051 (B1), Pinkman_50 (B1), Pipsqueak_51 (B1), Placalicious_50 (B1), Plmatters_51 (B1), Podrick_51 (B1), Pops_51 (B1), Potter_50 (B1), Prickles_51 (B1), ProfessorX_51 (B1), Puhltonio_51 (B1), QueenBeane_51 (B1), Quisquilliae_51 (B1), RedMaple_51 (B1), Riggan_51 (B1), Rimu_53 (B1), Robyn_50 (B1), Roliet_51 (B1), Roscoe_52 (B1), Roy17_51 (B1), Samaymay_51 (B1), SassyCat97_50 (B1), Scoot17C_52 (B1), Scrick_51 (B1), Serendipity_51 (B1), Serpentine_0051 (B1), Sheila_51 (B1), ShiVal_51 (B1), Sigman_52 (B1), Simielle_50 (B1), Skippy_51 (B1), Slatt_51 (B1), Soile_51 (B1), Solosis_50 (B1), Sophia_50 (B1), Soto_51 (B1), Spartan300_51 (B1), Squid_51 (B1), Squiggle_51 (B1), Surely_51 (B1), Swish_52 (B1), Telesworld_50 (B1), Thora_51 (B1), ThreeOh3D2_52 (B1), Timmi_50 (B1), TomBombadil_51 (B1), Tomlarah_51 (B1), Toni_50 (B1), Tooj_51 (B1), True_50 (B1), Trypo_52 (B1), TyrionL_50 (B1), UAch1_51 (B1), UncleHowie_51 (B1), Usavi_51 (B1), Vaishali24_50 (B1), Vaticameos_47 (B1), Virapocalypse_51 (B1), Vista_51 (B1), Vortex_51 (B1), Wallhey_50 (B1), Waterdiva_51 (B1), Weher20_51 (B1), Windsor_50 (B1), Xavier_50 (B1), YouGoGlencoco_51 (B1), Zaider_52 (B1), Zelda_51 (B1), Zonia_51 (B1),

Start 75:

- Found in 2 of 494 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Imvubu_43 (B10), Knocker_52 (B9),

Start 76:

- Found in 320 of 494 (64.8%) of genes in pham
- Manual Annotations of this start: 65 of 426
- Called 22.8% of time when present
- Phage (with cluster) where this start called: Adriana_52 (B1), Allegro_50 (B2), Anderson_51 (B1), Antonia_50 (B1), Arbiter_49 (B2), Ares_50 (B2), Bananafish_50 (B2), Blocker23_50 (B2), Boehler_51 (B1), Boyle_50 (B2), Brownie5_50 (B2), Calamitous_50 (B2), Chunky_51 (B1), Coffee_50 (B2), Colbert_51 (B1), Crownjwl_51

(B1), Daffy_51 (B1), DelRivs_50 (B1), Doddsville_51 (B1), Duggie_50 (B1), Eaglehorse_50 (B2), Faze9_49 (B2), FrenchFry_50 (B2), Glass_50 (B2), Godines_50 (B2), Hedgerow_50 (B2), HenryJackson_50 (B1), Holeinone_50 (B2), ItsyBitsy1_50 (B2), KLucky39_51 (B1), Kaleb_50 (B2), Kheth_50 (B2), KingVeVeVe_51 (B1), Kolhan_50 (B2), Lars_50 (B2), Laurie_49 (B2), LeeLot_51 (B1), Legolas_51 (B1), Lephleur_50 (B2), LilSmirk_50 (B2), LizLemon_50 (B2), Lulumae_50 (B1), Maru_50 (B1), MasterPo_50 (B2), Megamind20_51 (B1), MiniBoss_51 (B1), Mulan_51 (B1), Oosterbaan_51 (B1), Opia_50 (B2), Orfeu_50 (B1), Orion_52 (B1), Phantasmagoria_50 (B2), PhatCats2014_52 (B1), PhatLouie_51 (B1), Qyrzula_47 (B2), Rhinoforte_50 (B2), Ricotta_50 (B1), Rosebush_49 (B2), Sabella_49 (B2), Schadenfreude_50 (B1), Selr12_51 (B1), SilverBell_51 (B1), Suffolk_51 (B1), Swiphy_53 (B1), TA17A_50 (B2), TallGrassMM_51 (B1), Tinciduntolum_51 (B2), Tres_50 (B2), Valjean_51 (B1), Vic9_50 (B2), Vivaldi_52 (B1), West99_50 (B2), Yoshand_52 (B1),

Start 77:

- Found in 309 of 494 (62.6%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 0.3% of time when present
- Phage (with cluster) where this start called: Cooper_47 (B4),

Start 79:

- Found in 22 of 494 (4.5%) of genes in pham
- Manual Annotations of this start: 2 of 426
- Called 18.2% of time when present
- Phage (with cluster) where this start called: AlanGrant_48 (B4), Phelemich_49 (B5), Rita130_50 (B5), SirJeffery_50 (B5),

Start 80:

- Found in 8 of 494 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Coldpizza_46 (DR),

Start 85:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mariokart_44 (DR),

Start 91:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Saguaro_53 (B7),

Start 103:

- Found in 2 of 494 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: TPA2_57 (singleton),

Start 105:

- Found in 292 of 494 (59.1%) of genes in pham
- Manual Annotations of this start: 5 of 426
- Called 1.7% of time when present
- Phage (with cluster) where this start called: BabyGotBac_45 (BG), BayC_44 (BG), Maih_43 (BG), Salete_44 (BG), TP1604_44 (BG),

Start 111:

- Found in 2 of 494 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SDcharge11_51 (B1),

Start 113:

- Found in 14 of 494 (2.8%) of genes in pham
- Manual Annotations of this start: 5 of 426
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_45 (BG), Asis_44 (BG), Mischief19_53 (BG), RainyPolka_45 (BG), Xkcd426_48 (BG), YDN12_46 (BG),

Start 120:

- Found in 1 of 494 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BFK20_ORF40 (singleton),

Start 124:

- Found in 1 of 494 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trine_30 (CD),

Start 125:

- Found in 2 of 494 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Upyo_30 (CD),

Start 128:

- Found in 2 of 494 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 50.0% of time when present
- Phage (with cluster) where this start called: EmiRose_30 (singleton),

Start 132:

- Found in 2 of 494 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrissey_33 (CD), Pine5_42 (singleton),

Start 133:

- Found in 5 of 494 (1.0%) of genes in pham
- Manual Annotations of this start: 4 of 426

- Called 80.0% of time when present
- Phage (with cluster) where this start called: Gustav_32 (CD), Mahdia_31 (CD), Puppers_31 (CD), Widow_31 (CD),

Start 134:

- Found in 38 of 494 (7.7%) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: BobRoss2024_43 (DR),

Start 135:

- Found in 382 of 494 (77.3%) of genes in pham
- Manual Annotations of this start: 1 of 426
- Called 1.0% of time when present
- Phage (with cluster) where this start called: CharlottesWeb_44 (DR), StAugustine_68 (singleton), Wooper_47 (DR), Yeshua_47 (DR),

Summary by clusters:

There are 17 clusters represented in this pham: singleton, BG, B10, B8, B3, CD, B4, B5, B6, B7, B12, B1, B2, B11, DR, B9, B13,

Info for manual annotations of cluster B1:

- Start number 71 was manually annotated 18 times for cluster B1.
- Start number 74 was manually annotated 211 times for cluster B1.
- Start number 76 was manually annotated 33 times for cluster B1.
- Start number 111 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B10:

- Start number 75 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 74 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 63 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 39 was manually annotated 1 time for cluster B13.
- Start number 40 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 76 was manually annotated 32 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 30 was manually annotated 1 time for cluster B3.
- Start number 32 was manually annotated 9 times for cluster B3.
- Start number 34 was manually annotated 35 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 70 was manually annotated 9 times for cluster B4.
- Start number 73 was manually annotated 14 times for cluster B4.
- Start number 77 was manually annotated 1 time for cluster B4.

- Start number 79 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:

- Start number 72 was manually annotated 8 times for cluster B5.
- Start number 79 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B6:

- Start number 68 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 91 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 73 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 17 was manually annotated 1 time for cluster B9.
- Start number 65 was manually annotated 1 time for cluster B9.
- Start number 66 was manually annotated 2 times for cluster B9.
- Start number 68 was manually annotated 1 time for cluster B9.
- Start number 75 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster BG:

- Start number 105 was manually annotated 5 times for cluster BG.
- Start number 113 was manually annotated 5 times for cluster BG.

Info for manual annotations of cluster CD:

- Start number 124 was manually annotated 1 time for cluster CD.
- Start number 125 was manually annotated 1 time for cluster CD.
- Start number 132 was manually annotated 1 time for cluster CD.
- Start number 133 was manually annotated 4 times for cluster CD.

Info for manual annotations of cluster DR:

- Start number 34 was manually annotated 6 times for cluster DR.
- Start number 56 was manually annotated 1 time for cluster DR.
- Start number 57 was manually annotated 3 times for cluster DR.
- Start number 59 was manually annotated 6 times for cluster DR.
- Start number 60 was manually annotated 1 time for cluster DR.
- Start number 85 was manually annotated 1 time for cluster DR.
- Start number 135 was manually annotated 1 time for cluster DR.

Gene Information:

Gene: 39HC_044 Start: 43561, Stop: 42131, Start Num: 68

Candidate Starts for 39HC_044:

(Start: 68 @43561 has 2 MA's), (Start: 77 @43543 has 1 MA's), (116, 43339), (122, 43321), (131, 43267), (140, 43240), (148, 43204), (149, 43192), (180, 43012), (182, 43006), (188, 42988), (191, 42973), (218, 42907), (224, 42865), (227, 42853), (228, 42850), (237, 42778), (239, 42772), (242, 42754), (243, 42751), (255, 42697), (268, 42643), (272, 42613), (276, 42592), (283, 42520), (285, 42499), (289, 42466), (310, 42427), (319, 42382), (323, 42364), (325, 42358), (336, 42313), (338, 42310), (367, 42187),

Gene: 40BC_044 Start: 43561, Stop: 42131, Start Num: 68

Candidate Starts for 40BC_044:

(Start: 68 @43561 has 2 MA's), (Start: 77 @43543 has 1 MA's), (116, 43339), (122, 43321), (131, 43267), (140, 43240), (148, 43204), (149, 43192), (180, 43012), (182, 43006), (188, 42988), (191, 42973), (218, 42907), (224, 42865), (227, 42853), (228, 42850), (237, 42778), (239, 42772), (242, 42754), (243, 42751), (255, 42697), (268, 42643), (272, 42613), (276, 42592), (283, 42520), (285, 42499), (289, 42466), (310, 42427), (319, 42382), (323, 42364), (325, 42358), (336, 42313), (338, 42310), (367, 42187),

Gene: ABU_52 Start: 45373, Stop: 43970, Start Num: 74

Candidate Starts for ABU_52:

(36, 45538), (Start: 74 @45373 has 212 MA's), (Start: 76 @45370 has 65 MA's), (Start: 77 @45364 has 1 MA's), (84, 45322), (97, 45250), (Start: 105 @45229 has 5 MA's), (Start: 135 @45133 has 1 MA's), (149, 45082), (161, 45016), (162, 45013), (165, 44989), (167, 44962), (182, 44896), (186, 44884), (196, 44848), (213, 44803), (220, 44773), (227, 44734), (232, 44695), (236, 44662), (237, 44659), (242, 44635), (251, 44602), (254, 44581), (263, 44551), (279, 44437), (283, 44395), (285, 44374), (289, 44341), (307, 44269), (310, 44263), (320, 44215), (331, 44170), (338, 44146), (343, 44131), (348, 44107),

Gene: Abinghost_49 Start: 44867, Stop: 43254, Start Num: 34

Candidate Starts for Abinghost_49:

(14, 44993), (16, 44987), (19, 44972), (Start: 32 @44876 has 9 MA's), (Start: 34 @44867 has 41 MA's), (49, 44771), (Start: 72 @44693 has 8 MA's), (98, 44558), (Start: 135 @44399 has 1 MA's), (141, 44384), (143, 44372), (149, 44342), (158, 44300), (167, 44222), (203, 44090), (210, 44057), (213, 44048), (231, 43955), (237, 43907), (240, 43892), (242, 43883), (256, 43823), (263, 43799), (278, 43709), (289, 43598), (307, 43565), (308, 43562), (311, 43547), (317, 43526), (324, 43493),

Gene: AbsoluteMadLad_50 Start: 45250, Stop: 43847, Start Num: 71

Candidate Starts for AbsoluteMadLad_50:

(Start: 71 @45250 has 18 MA's), (Start: 76 @45247 has 65 MA's), (Start: 77 @45241 has 1 MA's), (84, 45199), (97, 45127), (Start: 105 @45106 has 5 MA's), (Start: 135 @45010 has 1 MA's), (149, 44959), (161, 44893), (162, 44890), (167, 44839), (182, 44773), (186, 44761), (196, 44725), (213, 44680), (220, 44650), (227, 44611), (232, 44572), (236, 44539), (237, 44536), (242, 44512), (251, 44479), (254, 44458), (263, 44428), (279, 44314), (283, 44272), (285, 44251), (289, 44218), (307, 44146), (310, 44140), (320, 44092), (331, 44047), (338, 44023), (343, 44008), (348, 43984),

Gene: Abt2graduatex2_45 Start: 36400, Stop: 35234, Start Num: 113

Candidate Starts for Abt2graduatex2_45:

(Start: 113 @36400 has 5 MA's), (126, 36361), (140, 36322), (152, 36256), (154, 36247), (168, 36151), (169, 36145), (178, 36100), (216, 36031), (227, 35980), (230, 35962), (241, 35884), (245, 35872), (248, 35860), (255, 35824), (256, 35821), (259, 35812), (276, 35728), (293, 35575), (303, 35542), (305, 35536), (309, 35527), (318, 35482), (323, 35458), (326, 35449), (351, 35359), (357, 35341), (372, 35245),

Gene: Acadian_51 Start: 46143, Stop: 44758, Start Num: 72

Candidate Starts for Acadian_51:

(6, 46572), (18, 46419), (36, 46293), (Start: 72 @46143 has 8 MA's), (Start: 79 @46125 has 2 MA's), (Start: 113 @45969 has 5 MA's), (Start: 135 @45906 has 1 MA's), (144, 45876), (172, 45711), (184, 45669), (189, 45651), (194, 45636), (215, 45585), (224, 45534), (237, 45447), (240, 45432), (242, 45423), (253, 45372), (256, 45363), (263, 45339), (264, 45336), (281, 45204), (285, 45171), (289, 45138), (291, 45120), (307, 45066), (318, 45021), (324, 44994), (345, 44913), (348, 44895), (364, 44832),

Gene: Adriana_52 Start: 45368, Stop: 43968, Start Num: 76

Candidate Starts for Adriana_52:

(10, 45749), (12, 45704), (18, 45662), (26, 45581), (36, 45536), (Start: 74 @45371 has 212 MA's), (Start: 76 @45368 has 65 MA's), (Start: 77 @45362 has 1 MA's), (84, 45320), (97, 45248), (Start: 105 @45227 has 5 MA's), (Start: 135 @45131 has 1 MA's), (149, 45080), (161, 45014), (162, 45011), (167, 44960), (182, 44894), (186, 44882), (196, 44846), (213, 44801), (220, 44771), (227, 44732), (232, 44693), (236, 44660), (237, 44657), (242, 44633), (251, 44600), (254, 44579), (263, 44549), (279, 44435), (283, 44393), (285, 44372), (289, 44339), (307, 44267), (310, 44261), (320, 44213), (331, 44168), (338, 44144), (343, 44129), (348, 44105),

Gene: Aelin_50 Start: 44814, Stop: 43411, Start Num: 71

Candidate Starts for Aelin_50:

(Start: 71 @44814 has 18 MA's), (Start: 76 @44811 has 65 MA's), (Start: 77 @44805 has 1 MA's), (84, 44763), (97, 44691), (Start: 105 @44670 has 5 MA's), (Start: 135 @44574 has 1 MA's), (149, 44523), (161, 44457), (162, 44454), (167, 44403), (182, 44337), (186, 44325), (196, 44289), (213, 44244), (220, 44214), (227, 44175), (232, 44136), (236, 44103), (237, 44100), (242, 44076), (251, 44043), (254, 44022), (263, 43992), (279, 43878), (283, 43836), (285, 43815), (289, 43782), (307, 43710), (310, 43704), (331, 43611), (338, 43587), (343, 43572), (348, 43548),

Gene: Ahwei_45 Start: 44672, Stop: 43332, Start Num: 73

Candidate Starts for Ahwei_45:

(Start: 70 @44675 has 9 MA's), (Start: 73 @44672 has 15 MA's), (Start: 77 @44663 has 1 MA's), (78, 44657), (87, 44606), (131, 44459), (149, 44393), (153, 44369), (182, 44207), (188, 44189), (191, 44174), (192, 44171), (204, 44144), (221, 44081), (222, 44072), (235, 43985), (240, 43961), (251, 43919), (252, 43916), (254, 43898), (263, 43868), (268, 43841), (273, 43808), (277, 43787), (278, 43778), (281, 43733), (282, 43727), (283, 43718), (285, 43697), (289, 43664), (310, 43625), (324, 43559), (325, 43556), (345, 43487), (348, 43469),

Gene: Akoma_49 Start: 44878, Stop: 43265, Start Num: 34

Candidate Starts for Akoma_49:

(14, 45004), (16, 44998), (19, 44983), (Start: 32 @44887 has 9 MA's), (Start: 34 @44878 has 41 MA's), (49, 44782), (Start: 72 @44704 has 8 MA's), (98, 44569), (Start: 135 @44410 has 1 MA's), (141, 44395), (143, 44383), (149, 44353), (158, 44311), (167, 44233), (203, 44101), (210, 44068), (213, 44059), (231, 43966), (237, 43918), (240, 43903), (242, 43894), (251, 43861), (256, 43834), (263, 43810), (278, 43720), (289, 43609), (307, 43576), (308, 43573), (311, 43558), (317, 43537), (324, 43504),

Gene: AlanGrant_48 Start: 46262, Stop: 44940, Start Num: 79

Candidate Starts for AlanGrant_48:

(Start: 73 @46277 has 15 MA's), (Start: 79 @46262 has 2 MA's), (131, 46067), (144, 46022), (149, 46001), (175, 45836), (182, 45815), (183, 45812), (188, 45797), (220, 45698), (222, 45680), (228, 45656), (237, 45584), (240, 45569), (246, 45545), (252, 45524), (254, 45506), (263, 45476), (268, 45449), (273, 45416), (276, 45398), (281, 45341), (285, 45305), (289, 45272), (310, 45233), (324, 45167), (325, 45164), (343, 45101), (345, 45095), (348, 45077),

Gene: Allegro_50 Start: 44855, Stop: 43488, Start Num: 76

Candidate Starts for Allegro_50:

(Start: 76 @44855 has 65 MA's), (86, 44792), (88, 44777), (117, 44666), (134, 44615), (148, 44567), (156, 44519), (179, 44378), (182, 44369), (205, 44324), (207, 44318), (208, 44312), (213, 44300), (232, 44195), (236, 44162), (240, 44144), (242, 44135), (251, 44102), (256, 44075), (263, 44051), (268, 44024), (271, 43997), (280, 43922), (285, 43877), (289, 43844), (297, 43823), (305, 43817), (315, 43784), (316, 43775), (318, 43766), (361, 43604), (364, 43586), (372, 43529),

Gene: AltPhacts_51 Start: 45223, Stop: 43820, Start Num: 71

Candidate Starts for AltPhacts_51:

(Start: 71 @45223 has 18 MA's), (Start: 76 @45220 has 65 MA's), (Start: 77 @45214 has 1 MA's), (84, 45172), (97, 45100), (Start: 105 @45079 has 5 MA's), (Start: 135 @44983 has 1 MA's), (149, 44932), (161, 44866), (162, 44863), (167, 44812), (182, 44746), (186, 44734), (196, 44698), (213, 44653), (220, 44623), (227, 44584), (232, 44545), (236, 44512), (237, 44509), (242, 44485), (251, 44452), (254, 44431), (263, 44401), (279, 44287), (283, 44245), (285, 44224), (289, 44191), (307, 44119), (310, 44113), (320, 44065), (331, 44020), (338, 43996), (343, 43981), (348, 43957),

Gene: Altwerkus_50 Start: 44929, Stop: 43526, Start Num: 74

Candidate Starts for Altwerkus_50:

(10, 45307), (12, 45262), (18, 45220), (26, 45139), (36, 45094), (Start: 74 @44929 has 212 MA's), (Start: 76 @44926 has 65 MA's), (Start: 77 @44920 has 1 MA's), (84, 44878), (97, 44806), (Start: 105 @44785 has 5 MA's), (Start: 135 @44689 has 1 MA's), (149, 44638), (161, 44572), (162, 44569), (167, 44518), (182, 44452), (186, 44440), (196, 44404), (213, 44359), (220, 44329), (227, 44290), (232, 44251), (236, 44218), (237, 44215), (242, 44191), (251, 44158), (254, 44137), (263, 44107), (279, 43993), (283, 43951), (285, 43930), (289, 43897), (307, 43825), (310, 43819), (320, 43771), (331, 43726), (338, 43702), (343, 43687), (348, 43663),

Gene: AnClar_45 Start: 40751, Stop: 39486, Start Num: 59

Candidate Starts for AnClar_45:

(Start: 59 @40751 has 6 MA's), (Start: 71 @40733 has 18 MA's), (80, 40712), (Start: 135 @40625 has 1 MA's), (139, 40619), (143, 40598), (149, 40568), (211, 40310), (218, 40292), (228, 40235), (237, 40163), (240, 40148), (242, 40139), (247, 40121), (251, 40106), (256, 40079), (263, 40055), (273, 39995), (281, 39920), (285, 39887), (289, 39854), (292, 39845), (301, 39821), (302, 39809), (318, 39743), (324, 39716), (328, 39704), (358, 39596), (359, 39593), (364, 39560),

Gene: AnarQue_47 Start: 40325, Stop: 38934, Start Num: 34

Candidate Starts for AnarQue_47:

(3, 40664), (5, 40640), (9, 40529), (11, 40484), (Start: 34 @40325 has 41 MA's), (38, 40298), (44, 40247), (81, 40103), (139, 40097), (147, 40064), (149, 40046), (155, 40013), (157, 40007), (169, 39917), (185, 39857), (209, 39788), (218, 39767), (224, 39725), (234, 39653), (236, 39641), (240, 39623), (242, 39614), (251, 39581), (263, 39530), (269, 39500), (272, 39473), (273, 39470), (285, 39362), (290, 39320), (299, 39287), (305, 39242), (310, 39230), (317, 39197), (318, 39191), (324, 39164),

Gene: Anderson_51 Start: 45225, Stop: 43825, Start Num: 76

Candidate Starts for Anderson_51:

(36, 45393), (Start: 74 @45228 has 212 MA's), (Start: 76 @45225 has 65 MA's), (Start: 77 @45219 has 1 MA's), (84, 45177), (97, 45105), (Start: 105 @45084 has 5 MA's), (Start: 135 @44988 has 1 MA's), (149, 44937), (161, 44871), (162, 44868), (167, 44817), (182, 44751), (186, 44739), (196, 44703), (213, 44658), (220, 44628), (227, 44589), (232, 44550), (236, 44517), (237, 44514), (242, 44490), (251, 44457), (254, 44436), (263, 44406), (279, 44292), (283, 44250), (285, 44229), (289, 44196), (307, 44124), (310, 44118), (320, 44070), (331, 44025), (338, 44001), (343, 43986), (348, 43962),

Gene: Andre_52 Start: 45365, Stop: 43962, Start Num: 74

Candidate Starts for Andre_52:

(10, 45743), (12, 45698), (18, 45656), (26, 45575), (36, 45530), (Start: 74 @45365 has 212 MA's), (Start: 76 @45362 has 65 MA's), (Start: 77 @45356 has 1 MA's), (84, 45314), (97, 45242), (Start: 105 @45221 has 5 MA's), (Start: 135 @45125 has 1 MA's), (149, 45074), (161, 45008), (162, 45005), (165, 44981), (167, 44954), (182, 44888), (186, 44876), (196, 44840), (213, 44795), (220, 44765), (227,

44726), (232, 44687), (236, 44654), (237, 44651), (242, 44627), (251, 44594), (254, 44573), (263, 44543), (279, 44429), (283, 44387), (285, 44366), (289, 44333), (307, 44261), (310, 44255), (320, 44207), (331, 44162), (338, 44138), (343, 44123), (348, 44099),

Gene: AngelCake_50 Start: 45250, Stop: 43847, Start Num: 74

Candidate Starts for AngelCake_50:

(36, 45415), (Start: 74 @45250 has 212 MA's), (Start: 76 @45247 has 65 MA's), (Start: 77 @45241 has 1 MA's), (84, 45199), (97, 45127), (Start: 105 @45106 has 5 MA's), (Start: 135 @45010 has 1 MA's), (149, 44959), (161, 44893), (162, 44890), (165, 44866), (167, 44839), (182, 44773), (186, 44761), (196, 44725), (213, 44680), (220, 44650), (227, 44611), (232, 44572), (236, 44539), (237, 44536), (242, 44512), (251, 44479), (254, 44458), (263, 44428), (279, 44314), (283, 44272), (285, 44251), (289, 44218), (307, 44146), (310, 44140), (320, 44092), (331, 44047), (338, 44023), (343, 44008), (348, 43984),

Gene: Antihero_45 Start: 44672, Stop: 43332, Start Num: 73

Candidate Starts for Antihero_45:

(Start: 70 @44675 has 9 MA's), (Start: 73 @44672 has 15 MA's), (Start: 77 @44663 has 1 MA's), (78, 44657), (87, 44606), (131, 44459), (149, 44393), (153, 44369), (182, 44207), (188, 44189), (191, 44174), (192, 44171), (204, 44144), (221, 44081), (222, 44072), (235, 43985), (240, 43961), (251, 43919), (252, 43916), (254, 43898), (263, 43868), (268, 43841), (273, 43808), (277, 43787), (278, 43778), (281, 43733), (282, 43727), (283, 43718), (285, 43697), (289, 43664), (310, 43625), (324, 43559), (325, 43556), (345, 43487), (348, 43469),

Gene: Antonia_50 Start: 44811, Stop: 43411, Start Num: 76

Candidate Starts for Antonia_50:

(Start: 71 @44814 has 18 MA's), (Start: 76 @44811 has 65 MA's), (Start: 77 @44805 has 1 MA's), (84, 44763), (97, 44691), (Start: 105 @44670 has 5 MA's), (Start: 135 @44574 has 1 MA's), (149, 44523), (161, 44457), (162, 44454), (167, 44403), (182, 44337), (186, 44325), (196, 44289), (213, 44244), (220, 44214), (227, 44175), (232, 44136), (236, 44103), (237, 44100), (242, 44076), (251, 44043), (254, 44022), (263, 43992), (279, 43878), (283, 43836), (285, 43815), (289, 43782), (307, 43710), (310, 43704), (331, 43611), (338, 43587), (343, 43572), (348, 43548),

Gene: Apex_47 Start: 45919, Stop: 44576, Start Num: 70

Candidate Starts for Apex_47:

(Start: 70 @45919 has 9 MA's), (Start: 73 @45916 has 15 MA's), (Start: 77 @45907 has 1 MA's), (78, 45901), (87, 45850), (131, 45703), (144, 45658), (149, 45637), (171, 45496), (175, 45472), (182, 45451), (183, 45448), (188, 45433), (191, 45418), (218, 45349), (220, 45334), (222, 45316), (228, 45292), (237, 45220), (242, 45196), (251, 45163), (252, 45160), (254, 45142), (263, 45112), (273, 45052), (276, 45034), (278, 45022), (281, 44977), (282, 44971), (283, 44962), (288, 44932), (289, 44908), (310, 44869), (319, 44824), (324, 44803), (325, 44800), (345, 44731), (348, 44713),

Gene: Apizium_51 Start: 45129, Stop: 43726, Start Num: 71

Candidate Starts for Apizium_51:

(10, 45504), (12, 45459), (18, 45417), (26, 45336), (36, 45291), (Start: 71 @45129 has 18 MA's), (Start: 76 @45126 has 65 MA's), (84, 45078), (97, 45006), (Start: 105 @44985 has 5 MA's), (Start: 135 @44889 has 1 MA's), (149, 44838), (161, 44772), (162, 44769), (167, 44718), (182, 44652), (186, 44640), (196, 44604), (213, 44559), (220, 44529), (227, 44490), (232, 44451), (236, 44418), (237, 44415), (242, 44391), (251, 44358), (254, 44337), (263, 44307), (279, 44193), (283, 44151), (285, 44130), (289, 44097), (307, 44025), (310, 44019), (320, 43971), (331, 43926), (338, 43902), (343, 43887), (348, 43863),

Gene: Arbiter_49 Start: 44958, Stop: 43591, Start Num: 76

Candidate Starts for Arbiter_49:

(Start: 76 @44958 has 65 MA's), (86, 44895), (88, 44880), (117, 44769), (134, 44718), (148, 44670), (156, 44622), (179, 44481), (182, 44472), (205, 44427), (207, 44421), (208, 44415), (213, 44403), (232, 44298), (236, 44265), (240, 44247), (242, 44238), (251, 44205), (256, 44178), (263, 44154), (268, 44127), (271, 44100), (280, 44025), (285, 43980), (289, 43947), (297, 43926), (305, 43920), (315, 43887), (316, 43878), (318, 43869), (361, 43707), (364, 43689), (372, 43632),

Gene: Ares_50 Start: 44927, Stop: 43560, Start Num: 76

Candidate Starts for Ares_50:

(Start: 76 @44927 has 65 MA's), (86, 44864), (88, 44849), (117, 44738), (134, 44687), (148, 44639), (156, 44591), (179, 44450), (182, 44441), (205, 44396), (207, 44390), (208, 44384), (213, 44372), (232, 44267), (236, 44234), (242, 44207), (251, 44174), (256, 44147), (263, 44123), (268, 44096), (271, 44069), (280, 43994), (285, 43949), (289, 43916), (297, 43895), (305, 43889), (315, 43856), (316, 43847), (318, 43838), (361, 43676), (364, 43658), (372, 43601),

Gene: Ashraf_51 Start: 44930, Stop: 43527, Start Num: 74

Candidate Starts for Ashraf_51:

(36, 45095), (Start: 74 @44930 has 212 MA's), (Start: 76 @44927 has 65 MA's), (Start: 77 @44921 has 1 MA's), (84, 44879), (97, 44807), (Start: 105 @44786 has 5 MA's), (Start: 135 @44690 has 1 MA's), (149, 44639), (161, 44573), (162, 44570), (167, 44519), (182, 44453), (186, 44441), (196, 44405), (213, 44360), (220, 44330), (227, 44291), (232, 44252), (236, 44219), (237, 44216), (239, 44210), (242, 44192), (251, 44159), (254, 44138), (263, 44108), (279, 43994), (283, 43952), (285, 43931), (289, 43898), (307, 43826), (310, 43820), (320, 43772), (331, 43727), (338, 43703), (343, 43688), (348, 43664),

Gene: Asis_44 Start: 36151, Stop: 34985, Start Num: 113

Candidate Starts for Asis_44:

(52, 36394), (67, 36343), (82, 36286), (Start: 105 @36175 has 5 MA's), (Start: 113 @36151 has 5 MA's), (126, 36112), (140, 36073), (150, 36028), (152, 36007), (168, 35902), (169, 35896), (178, 35851), (182, 35839), (216, 35782), (219, 35776), (227, 35731), (230, 35713), (240, 35641), (248, 35611), (255, 35575), (256, 35572), (259, 35563), (305, 35287), (309, 35278), (318, 35233), (323, 35209), (326, 35200), (334, 35167), (351, 35110), (357, 35092), (371, 34999), (372, 34996),

Gene: Athena_50 Start: 45625, Stop: 44012, Start Num: 34

Candidate Starts for Athena_50:

(14, 45751), (16, 45745), (19, 45730), (Start: 32 @45634 has 9 MA's), (Start: 34 @45625 has 41 MA's), (49, 45529), (Start: 72 @45451 has 8 MA's), (98, 45316), (Start: 135 @45157 has 1 MA's), (141, 45142), (143, 45130), (149, 45100), (158, 45058), (167, 44980), (181, 44914), (182, 44911), (203, 44848), (210, 44815), (213, 44806), (231, 44713), (237, 44665), (238, 44662), (240, 44650), (242, 44641), (256, 44581), (263, 44557), (278, 44467), (289, 44356), (307, 44323), (308, 44320), (311, 44305), (317, 44284), (324, 44251),

Gene: Audrey_49 Start: 44882, Stop: 43260, Start Num: 32

Candidate Starts for Audrey_49:

(14, 44999), (16, 44993), (19, 44978), (Start: 32 @44882 has 9 MA's), (Start: 34 @44873 has 41 MA's), (49, 44777), (Start: 72 @44699 has 8 MA's), (98, 44564), (Start: 135 @44405 has 1 MA's), (141, 44390), (143, 44378), (149, 44348), (158, 44306), (167, 44228), (181, 44162), (182, 44159), (203, 44096), (210, 44063), (213, 44054), (231, 43961), (237, 43913), (240, 43898), (242, 43889), (256, 43829), (263, 43805), (278, 43715), (289, 43604), (307, 43571), (308, 43568), (311, 43553), (317, 43532), (324, 43499),

Gene: Austelle_47 Start: 46366, Stop: 45026, Start Num: 73

Candidate Starts for Austelle_47:

(Start: 70 @46369 has 9 MA's), (Start: 73 @46366 has 15 MA's), (Start: 77 @46357 has 1 MA's), (78, 46351), (87, 46300), (131, 46153), (144, 46108), (149, 46087), (171, 45946), (175, 45922), (182, 45901), (183, 45898), (188, 45883), (191, 45868), (218, 45799), (220, 45784), (222, 45766), (228, 45742), (237, 45670), (242, 45646), (251, 45613), (252, 45610), (254, 45592), (263, 45562), (273, 45502), (276, 45484), (278, 45472), (281, 45427), (282, 45421), (283, 45412), (288, 45382), (289, 45358), (310, 45319), (319, 45274), (324, 45253), (325, 45250), (345, 45181), (348, 45163),

Gene: Axumite_44 Start: 37985, Stop: 36669, Start Num: 56

Candidate Starts for Axumite_44:

(Start: 56 @37985 has 1 MA's), (Start: 57 @37982 has 3 MA's), (Start: 135 @37823 has 1 MA's), (139, 37817), (149, 37766), (210, 37511), (218, 37490), (225, 37445), (228, 37433), (251, 37304), (256, 37277), (263, 37253), (269, 37223), (270, 37205), (273, 37193), (278, 37163), (280, 37130), (285, 37085), (289, 37052), (301, 37019), (305, 36992), (317, 36947), (318, 36941), (324, 36914), (325, 36911), (338, 36863), (372, 36701),

Gene: BFK20_ORF40 Start: 30567, Stop: 29512, Start Num: 120

Candidate Starts for BFK20_ORF40:

(99, 30639), (103, 30630), (120, 30567), (Start: 128 @30540 has 1 MA's), (151, 30456), (179, 30288), (221, 30213), (242, 30084), (252, 30048), (260, 30015), (280, 29880), (281, 29868), (285, 29835), (289, 29802), (296, 29784), (305, 29775), (316, 29730), (328, 29682), (362, 29553), (366, 29532),

Gene: BabyGotBac_45 Start: 36175, Stop: 34985, Start Num: 105

Candidate Starts for BabyGotBac_45:

(52, 36394), (67, 36343), (82, 36286), (Start: 105 @36175 has 5 MA's), (Start: 113 @36151 has 5 MA's), (126, 36112), (140, 36073), (150, 36028), (152, 36007), (168, 35902), (169, 35896), (178, 35851), (182, 35839), (216, 35782), (219, 35776), (227, 35731), (230, 35713), (240, 35641), (248, 35611), (255, 35575), (256, 35572), (259, 35563), (305, 35287), (309, 35278), (318, 35233), (323, 35209), (326, 35200), (334, 35167), (351, 35110), (357, 35092), (371, 34999), (372, 34996),

Gene: Badfish_52 Start: 45396, Stop: 43993, Start Num: 74

Candidate Starts for Badfish_52:

(10, 45774), (12, 45729), (18, 45687), (26, 45606), (36, 45561), (Start: 74 @45396 has 212 MA's), (Start: 76 @45393 has 65 MA's), (Start: 77 @45387 has 1 MA's), (84, 45345), (97, 45273), (Start: 105 @45252 has 5 MA's), (Start: 135 @45156 has 1 MA's), (149, 45105), (161, 45039), (162, 45036), (167, 44985), (182, 44919), (186, 44907), (196, 44871), (213, 44826), (220, 44796), (227, 44757), (232, 44718), (236, 44685), (237, 44682), (242, 44658), (251, 44625), (254, 44604), (263, 44574), (279, 44460), (283, 44418), (285, 44397), (289, 44364), (307, 44292), (310, 44286), (320, 44238), (331, 44193), (338, 44169), (343, 44154), (348, 44130),

Gene: Bae_50 Start: 46015, Stop: 44636, Start Num: 72

Candidate Starts for Bae_50:

(Start: 72 @46015 has 8 MA's), (Start: 79 @45997 has 2 MA's), (Start: 135 @45784 has 1 MA's), (144, 45754), (172, 45589), (184, 45547), (189, 45529), (194, 45514), (195, 45511), (215, 45463), (224, 45412), (237, 45325), (240, 45310), (242, 45301), (256, 45241), (263, 45217), (264, 45214), (277, 45136), (281, 45082), (285, 45049), (289, 45016), (291, 44998), (307, 44944), (318, 44899), (324, 44872), (345, 44791), (364, 44710),

Gene: Baloo_49 Start: 44885, Stop: 43263, Start Num: 32

Candidate Starts for Baloo_49:

(14, 45002), (16, 44996), (19, 44981), (Start: 32 @44885 has 9 MA's), (Start: 34 @44876 has 41 MA's), (49, 44780), (Start: 72 @44702 has 8 MA's), (98, 44567), (Start: 135 @44408 has 1 MA's), (141, 44393), (143, 44381), (149, 44351), (158, 44309), (167, 44231), (181, 44165), (182, 44162), (203, 44099), (210, 44066), (213, 44057), (231, 43964), (237, 43916), (240, 43901), (242, 43892), (256,

43832), (263, 43808), (278, 43718), (289, 43607), (307, 43574), (308, 43571), (311, 43556), (317, 43535), (324, 43502),

Gene: Bananafish_50 Start: 44861, Stop: 43494, Start Num: 76

Candidate Starts for Bananafish_50:

(Start: 76 @44861 has 65 MA's), (86, 44798), (88, 44783), (117, 44672), (134, 44621), (148, 44573), (156, 44525), (179, 44384), (182, 44375), (205, 44330), (207, 44324), (208, 44318), (213, 44306), (232, 44201), (236, 44168), (242, 44141), (251, 44108), (256, 44081), (263, 44057), (268, 44030), (271, 44003), (280, 43928), (285, 43883), (289, 43850), (297, 43829), (305, 43823), (315, 43790), (316, 43781), (318, 43772), (361, 43610), (364, 43592), (372, 43535),

Gene: Banjo_50 Start: 44927, Stop: 43524, Start Num: 74

Candidate Starts for Banjo_50:

(10, 45305), (12, 45260), (18, 45218), (26, 45137), (36, 45092), (Start: 74 @44927 has 212 MA's), (Start: 76 @44924 has 65 MA's), (Start: 77 @44918 has 1 MA's), (84, 44876), (97, 44804), (Start: 105 @44783 has 5 MA's), (Start: 135 @44687 has 1 MA's), (149, 44636), (161, 44570), (162, 44567), (167, 44516), (182, 44450), (186, 44438), (196, 44402), (213, 44357), (220, 44327), (227, 44288), (232, 44249), (236, 44216), (237, 44213), (242, 44189), (251, 44156), (254, 44135), (263, 44105), (279, 43991), (283, 43949), (285, 43928), (289, 43895), (307, 43823), (310, 43817), (320, 43769), (331, 43724), (338, 43700), (343, 43685), (348, 43661),

Gene: Basato_52 Start: 45512, Stop: 44109, Start Num: 71

Candidate Starts for Basato_52:

(36, 45674), (Start: 71 @45512 has 18 MA's), (Start: 76 @45509 has 65 MA's), (84, 45461), (97, 45389), (Start: 105 @45368 has 5 MA's), (Start: 135 @45272 has 1 MA's), (149, 45221), (161, 45155), (162, 45152), (167, 45101), (182, 45035), (186, 45023), (196, 44987), (213, 44942), (220, 44912), (227, 44873), (232, 44834), (236, 44801), (237, 44798), (242, 44774), (251, 44741), (254, 44720), (263, 44690), (279, 44576), (283, 44534), (285, 44513), (289, 44480), (307, 44408), (310, 44402), (320, 44354), (331, 44309), (338, 44285), (343, 44270), (348, 44246),

Gene: BatteryCK_50 Start: 44870, Stop: 43467, Start Num: 74

Candidate Starts for BatteryCK_50:

(36, 45035), (Start: 74 @44870 has 212 MA's), (Start: 76 @44867 has 65 MA's), (Start: 77 @44861 has 1 MA's), (84, 44819), (97, 44747), (Start: 105 @44726 has 5 MA's), (Start: 135 @44630 has 1 MA's), (149, 44579), (161, 44513), (162, 44510), (167, 44459), (182, 44393), (186, 44381), (196, 44345), (213, 44300), (220, 44270), (227, 44231), (232, 44192), (236, 44159), (237, 44156), (239, 44150), (242, 44132), (251, 44099), (254, 44078), (263, 44048), (279, 43934), (283, 43892), (285, 43871), (289, 43838), (307, 43766), (310, 43760), (320, 43712), (331, 43667), (338, 43643), (343, 43628), (348, 43604),

Gene: BayC_44 Start: 36172, Stop: 34982, Start Num: 105

Candidate Starts for BayC_44:

(52, 36391), (67, 36340), (82, 36283), (Start: 105 @36172 has 5 MA's), (Start: 113 @36148 has 5 MA's), (126, 36109), (140, 36070), (150, 36025), (152, 36004), (168, 35899), (169, 35893), (178, 35848), (182, 35836), (216, 35779), (219, 35773), (227, 35728), (230, 35710), (240, 35638), (248, 35608), (255, 35572), (256, 35569), (259, 35560), (305, 35284), (309, 35275), (318, 35230), (323, 35206), (326, 35197), (334, 35164), (351, 35107), (357, 35089), (371, 34996), (372, 34993),

Gene: Beaglebox_50 Start: 44948, Stop: 43545, Start Num: 74

Candidate Starts for Beaglebox_50:

(10, 45326), (12, 45281), (18, 45239), (26, 45158), (36, 45113), (Start: 74 @44948 has 212 MA's), (Start: 76 @44945 has 65 MA's), (Start: 77 @44939 has 1 MA's), (84, 44897), (97, 44825), (Start: 105 @44804 has 5 MA's), (Start: 135 @44708 has 1 MA's), (149, 44657), (161, 44591), (162, 44588), (167,

44537), (182, 44471), (186, 44459), (196, 44423), (213, 44378), (220, 44348), (227, 44309), (232, 44270), (236, 44237), (237, 44234), (242, 44210), (251, 44177), (254, 44156), (263, 44126), (279, 44012), (283, 43970), (285, 43949), (289, 43916), (307, 43844), (310, 43838), (320, 43790), (331, 43745), (338, 43721), (343, 43706), (348, 43682),

Gene: Ben11_48 Start: 44706, Stop: 43084, Start Num: 32

Candidate Starts for Ben11_48:

(14, 44823), (16, 44817), (19, 44802), (Start: 32 @44706 has 9 MA's), (Start: 34 @44697 has 41 MA's), (49, 44601), (Start: 72 @44523 has 8 MA's), (98, 44388), (Start: 135 @44229 has 1 MA's), (141, 44214), (143, 44202), (149, 44172), (158, 44130), (167, 44052), (181, 43986), (182, 43983), (203, 43920), (210, 43887), (213, 43878), (231, 43785), (237, 43737), (240, 43722), (242, 43713), (256, 43653), (263, 43629), (278, 43539), (289, 43428), (307, 43395), (308, 43392), (311, 43377), (317, 43356), (324, 43323),

Gene: Bernardo_50 Start: 45419, Stop: 43809, Start Num: 34

Candidate Starts for Bernardo_50:

(14, 45548), (16, 45542), (19, 45527), (Start: 32 @45428 has 9 MA's), (Start: 34 @45419 has 41 MA's), (49, 45323), (Start: 72 @45245 has 8 MA's), (96, 45122), (98, 45110), (108, 45086), (112, 45071), (Start: 135 @44954 has 1 MA's), (141, 44939), (143, 44927), (149, 44897), (158, 44855), (167, 44777), (203, 44645), (210, 44612), (213, 44603), (231, 44510), (237, 44462), (240, 44447), (242, 44438), (251, 44405), (256, 44378), (263, 44354), (278, 44264), (289, 44153), (307, 44120), (308, 44117), (311, 44102), (317, 44081), (324, 44048),

Gene: BiggityBass_44 Start: 40224, Stop: 38959, Start Num: 59

Candidate Starts for BiggityBass_44:

(Start: 59 @40224 has 6 MA's), (Start: 71 @40206 has 18 MA's), (80, 40185), (Start: 135 @40098 has 1 MA's), (139, 40092), (143, 40071), (149, 40041), (211, 39783), (213, 39777), (218, 39765), (228, 39708), (239, 39630), (240, 39621), (251, 39579), (256, 39552), (263, 39528), (273, 39468), (281, 39393), (285, 39360), (289, 39327), (292, 39318), (301, 39294), (302, 39282), (305, 39267), (310, 39255), (318, 39216), (324, 39189), (328, 39177), (358, 39069), (359, 39066), (364, 39033),

Gene: BirdsNest_53 Start: 44482, Stop: 43088, Start Num: 40

Candidate Starts for BirdsNest_53:

(Start: 40 @44482 has 2 MA's), (49, 44434), (69, 44356), (137, 44215), (149, 44167), (167, 44047), (169, 44038), (182, 43981), (200, 43924), (227, 43819), (228, 43816), (237, 43744), (242, 43720), (273, 43570), (285, 43453), (289, 43420), (290, 43411), (305, 43393), (310, 43381), (328, 43303), (338, 43264), (374, 43096),

Gene: Bishoperium_50 Start: 44942, Stop: 43539, Start Num: 74

Candidate Starts for Bishoperium_50:

(36, 45107), (Start: 74 @44942 has 212 MA's), (Start: 76 @44939 has 65 MA's), (Start: 77 @44933 has 1 MA's), (84, 44891), (97, 44819), (Start: 105 @44798 has 5 MA's), (Start: 135 @44702 has 1 MA's), (149, 44651), (161, 44585), (162, 44582), (167, 44531), (182, 44465), (186, 44453), (196, 44417), (213, 44372), (220, 44342), (227, 44303), (232, 44264), (236, 44231), (237, 44228), (242, 44204), (251, 44171), (254, 44150), (263, 44120), (279, 44006), (283, 43964), (285, 43943), (289, 43910), (307, 43838), (310, 43832), (320, 43784), (331, 43739), (338, 43715), (343, 43700), (348, 43676),

Gene: BlackStallion_52 Start: 45402, Stop: 43999, Start Num: 74

Candidate Starts for BlackStallion_52:

(10, 45780), (12, 45735), (18, 45693), (26, 45612), (36, 45567), (Start: 74 @45402 has 212 MA's), (Start: 76 @45399 has 65 MA's), (Start: 77 @45393 has 1 MA's), (84, 45351), (97, 45279), (Start: 105 @45258 has 5 MA's), (Start: 135 @45162 has 1 MA's), (149, 45111), (161, 45045), (162, 45042), (167,

44991), (182, 44925), (186, 44913), (196, 44877), (213, 44832), (220, 44802), (227, 44763), (232, 44724), (236, 44691), (237, 44688), (242, 44664), (251, 44631), (254, 44610), (263, 44580), (279, 44466), (283, 44424), (285, 44403), (289, 44370), (307, 44298), (310, 44292), (320, 44244), (331, 44199), (338, 44175), (343, 44160), (348, 44136),

Gene: Blocker23_50 Start: 44979, Stop: 43612, Start Num: 76

Candidate Starts for Blocker23_50:

(Start: 76 @44979 has 65 MA's), (86, 44916), (88, 44901), (117, 44790), (134, 44739), (148, 44691), (156, 44643), (179, 44502), (182, 44493), (205, 44448), (207, 44442), (208, 44436), (213, 44424), (232, 44319), (236, 44286), (242, 44259), (251, 44226), (256, 44199), (263, 44175), (268, 44148), (271, 44121), (280, 44046), (285, 44001), (289, 43968), (297, 43947), (305, 43941), (315, 43908), (318, 43890), (361, 43728), (364, 43710), (372, 43653),

Gene: BlueHusk_51 Start: 44748, Stop: 43345, Start Num: 74

Candidate Starts for BlueHusk_51:

(10, 45126), (12, 45081), (18, 45039), (26, 44958), (36, 44913), (Start: 74 @44748 has 212 MA's), (Start: 76 @44745 has 65 MA's), (Start: 77 @44739 has 1 MA's), (84, 44697), (97, 44625), (Start: 105 @44604 has 5 MA's), (Start: 135 @44508 has 1 MA's), (149, 44457), (161, 44391), (162, 44388), (167, 44337), (182, 44271), (186, 44259), (196, 44223), (213, 44178), (220, 44148), (227, 44109), (232, 44070), (236, 44037), (237, 44034), (242, 44010), (251, 43977), (254, 43956), (263, 43926), (279, 43812), (283, 43770), (285, 43749), (289, 43716), (307, 43644), (310, 43638), (320, 43590), (331, 43545), (338, 43521), (343, 43506), (348, 43482),

Gene: Bluephacebaby_50 Start: 44945, Stop: 43542, Start Num: 74

Candidate Starts for Bluephacebaby_50:

(10, 45323), (12, 45278), (18, 45236), (26, 45155), (36, 45110), (Start: 74 @44945 has 212 MA's), (Start: 76 @44942 has 65 MA's), (Start: 77 @44936 has 1 MA's), (84, 44894), (97, 44822), (Start: 105 @44801 has 5 MA's), (Start: 135 @44705 has 1 MA's), (149, 44654), (161, 44588), (162, 44585), (167, 44534), (182, 44468), (186, 44456), (196, 44420), (213, 44375), (220, 44345), (227, 44306), (232, 44267), (236, 44234), (237, 44231), (242, 44207), (251, 44174), (254, 44153), (263, 44123), (279, 44009), (283, 43967), (285, 43946), (289, 43913), (307, 43841), (310, 43835), (320, 43787), (331, 43742), (338, 43718), (343, 43703), (348, 43679),

Gene: BobRoss2024_43 Start: 37803, Stop: 36655, Start Num: 134

Candidate Starts for BobRoss2024_43:

(33, 38298), (37, 38274), (90, 37986), (114, 37893), (134, 37803), (143, 37773), (184, 37563), (197, 37515), (199, 37512), (210, 37482), (227, 37407), (240, 37317), (242, 37308), (256, 37248), (263, 37224), (274, 37152), (278, 37134), (285, 37056), (289, 37023), (292, 37014), (305, 36963), (307, 36957), (318, 36912), (324, 36885), (329, 36867), (338, 36834),

Gene: BobbyK_47 Start: 45708, Stop: 44368, Start Num: 73

Candidate Starts for BobbyK_47:

(Start: 70 @45711 has 9 MA's), (Start: 73 @45708 has 15 MA's), (Start: 77 @45699 has 1 MA's), (78, 45693), (87, 45642), (131, 45495), (144, 45450), (149, 45429), (171, 45288), (175, 45264), (182, 45243), (183, 45240), (188, 45225), (191, 45210), (218, 45141), (228, 45084), (240, 44997), (242, 44988), (251, 44955), (252, 44952), (254, 44934), (263, 44904), (273, 44844), (276, 44826), (278, 44814), (281, 44769), (282, 44763), (283, 44754), (285, 44733), (288, 44724), (289, 44700), (310, 44661), (324, 44595), (325, 44592), (345, 44523), (348, 44505),

Gene: Boehler_51 Start: 45248, Stop: 43848, Start Num: 76

Candidate Starts for Boehler_51:

(10, 45629), (12, 45584), (18, 45542), (26, 45461), (36, 45416), (Start: 74 @45251 has 212 MA's), (Start: 76 @45248 has 65 MA's), (Start: 77 @45242 has 1 MA's), (84, 45200), (97, 45128), (Start: 105

@45107 has 5 MA's), (Start: 135 @45011 has 1 MA's), (149, 44960), (161, 44894), (162, 44891), (167, 44840), (182, 44774), (186, 44762), (196, 44726), (213, 44681), (220, 44651), (227, 44612), (232, 44573), (236, 44540), (237, 44537), (242, 44513), (251, 44480), (254, 44459), (263, 44429), (283, 44273), (285, 44252), (289, 44219), (307, 44147), (310, 44141), (320, 44093), (331, 44048), (338, 44024), (343, 44009), (348, 43985),

Gene: Boyle_50 Start: 44994, Stop: 43627, Start Num: 76

Candidate Starts for Boyle_50:

(Start: 76 @44994 has 65 MA's), (86, 44931), (88, 44916), (117, 44805), (134, 44754), (148, 44706), (156, 44658), (179, 44517), (182, 44508), (205, 44463), (207, 44457), (208, 44451), (213, 44439), (232, 44334), (236, 44301), (242, 44274), (251, 44241), (256, 44214), (263, 44190), (268, 44163), (271, 44136), (280, 44061), (285, 44016), (289, 43983), (297, 43962), (305, 43956), (315, 43923), (316, 43914), (318, 43905), (361, 43743), (364, 43725), (372, 43668),

Gene: Briakila_50 Start: 45645, Stop: 44032, Start Num: 34

Candidate Starts for Briakila_50:

(14, 45771), (16, 45765), (19, 45750), (Start: 32 @45654 has 9 MA's), (Start: 34 @45645 has 41 MA's), (49, 45549), (Start: 72 @45471 has 8 MA's), (98, 45336), (Start: 135 @45177 has 1 MA's), (141, 45162), (143, 45150), (149, 45120), (158, 45078), (167, 45000), (181, 44934), (182, 44931), (203, 44868), (210, 44835), (213, 44826), (231, 44733), (237, 44685), (238, 44682), (240, 44670), (242, 44661), (256, 44601), (263, 44577), (278, 44487), (289, 44376), (307, 44343), (308, 44340), (311, 44325), (317, 44304), (324, 44271),

Gene: Brilliant_51 Start: 44944, Stop: 43541, Start Num: 74

Candidate Starts for Brilliant_51:

(36, 45109), (Start: 74 @44944 has 212 MA's), (Start: 76 @44941 has 65 MA's), (Start: 77 @44935 has 1 MA's), (84, 44893), (97, 44821), (Start: 105 @44800 has 5 MA's), (Start: 135 @44704 has 1 MA's), (149, 44653), (161, 44587), (162, 44584), (165, 44560), (167, 44533), (182, 44467), (186, 44455), (196, 44419), (213, 44374), (220, 44344), (227, 44305), (232, 44266), (236, 44233), (237, 44230), (242, 44206), (251, 44173), (254, 44152), (263, 44122), (279, 44008), (283, 43966), (285, 43945), (289, 43912), (307, 43840), (310, 43834), (320, 43786), (331, 43741), (338, 43717), (343, 43702), (348, 43678),

Gene: BrownCNA_48 Start: 45990, Stop: 44647, Start Num: 70

Candidate Starts for BrownCNA_48:

(Start: 70 @45990 has 9 MA's), (Start: 73 @45987 has 15 MA's), (Start: 77 @45978 has 1 MA's), (78, 45972), (87, 45921), (131, 45774), (149, 45708), (171, 45567), (175, 45543), (182, 45522), (183, 45519), (188, 45504), (191, 45489), (218, 45420), (222, 45387), (228, 45363), (237, 45291), (240, 45276), (242, 45267), (251, 45234), (252, 45231), (254, 45213), (263, 45183), (273, 45123), (276, 45105), (278, 45093), (280, 45060), (281, 45048), (282, 45042), (283, 45033), (285, 45012), (288, 45003), (289, 44979), (310, 44940), (324, 44874), (325, 44871), (343, 44808), (345, 44802), (348, 44784),

Gene: Brownie5_50 Start: 45010, Stop: 43643, Start Num: 76

Candidate Starts for Brownie5_50:

(Start: 76 @45010 has 65 MA's), (86, 44947), (88, 44932), (117, 44821), (134, 44770), (148, 44722), (156, 44674), (179, 44533), (182, 44524), (205, 44479), (207, 44473), (208, 44467), (213, 44455), (232, 44350), (236, 44317), (240, 44299), (242, 44290), (251, 44257), (256, 44230), (263, 44206), (268, 44179), (271, 44152), (280, 44077), (285, 44032), (289, 43999), (297, 43978), (305, 43972), (315, 43939), (316, 43930), (318, 43921), (361, 43759), (364, 43741), (372, 43684),

Gene: Buckeye_51 Start: 45265, Stop: 43862, Start Num: 74

Candidate Starts for Buckeye_51:

(10, 45643), (12, 45598), (18, 45556), (26, 45475), (36, 45430), (Start: 74 @45265 has 212 MA's), (Start: 76 @45262 has 65 MA's), (Start: 77 @45256 has 1 MA's), (84, 45214), (97, 45142), (Start: 105 @45121 has 5 MA's), (Start: 135 @45025 has 1 MA's), (149, 44974), (161, 44908), (162, 44905), (167, 44854), (182, 44788), (186, 44776), (196, 44740), (213, 44695), (220, 44665), (227, 44626), (232, 44587), (236, 44554), (237, 44551), (242, 44527), (251, 44494), (254, 44473), (263, 44443), (279, 44329), (283, 44287), (285, 44266), (289, 44233), (307, 44161), (310, 44155), (320, 44107), (331, 44062), (338, 44038), (343, 44023), (348, 43999),

Gene: Burr_50 Start: 44939, Stop: 43536, Start Num: 74

Candidate Starts for Burr_50:

(10, 45317), (12, 45272), (18, 45230), (26, 45149), (36, 45104), (Start: 74 @44939 has 212 MA's), (Start: 76 @44936 has 65 MA's), (Start: 77 @44930 has 1 MA's), (84, 44888), (97, 44816), (Start: 105 @44795 has 5 MA's), (Start: 135 @44699 has 1 MA's), (149, 44648), (161, 44582), (162, 44579), (167, 44528), (182, 44462), (186, 44450), (196, 44414), (213, 44369), (220, 44339), (227, 44300), (232, 44261), (236, 44228), (237, 44225), (242, 44201), (251, 44168), (254, 44147), (263, 44117), (279, 44003), (283, 43961), (285, 43940), (289, 43907), (307, 43835), (310, 43829), (320, 43781), (331, 43736), (338, 43712), (343, 43697), (348, 43673),

Gene: CRB2_52 Start: 48176, Stop: 46818, Start Num: 68

Candidate Starts for CRB2_52:

(7, 48560), (8, 48554), (15, 48461), (33, 48338), (Start: 68 @48176 has 2 MA's), (Start: 79 @48149 has 2 MA's), (Start: 135 @47927 has 1 MA's), (140, 47918), (164, 47786), (182, 47690), (191, 47657), (210, 47618), (228, 47540), (237, 47468), (240, 47453), (242, 47444), (249, 47417), (251, 47411), (254, 47390), (255, 47387), (276, 47282), (278, 47270), (305, 47129), (319, 47072), (324, 47051), (325, 47048), (338, 47000), (345, 46979), (372, 46841),

Gene: CaiB_47 Start: 40311, Stop: 38920, Start Num: 34

Candidate Starts for CaiB_47:

(25, 40341), (Start: 34 @40311 has 41 MA's), (38, 40284), (44, 40233), (81, 40089), (139, 40083), (147, 40050), (149, 40032), (155, 39999), (157, 39993), (167, 39912), (169, 39903), (185, 39843), (209, 39774), (224, 39711), (234, 39639), (236, 39627), (240, 39609), (242, 39600), (263, 39516), (269, 39486), (272, 39459), (273, 39456), (285, 39348), (290, 39306), (299, 39273), (305, 39228), (310, 39216), (317, 39183), (318, 39177), (324, 39150),

Gene: Calamitous_50 Start: 44860, Stop: 43493, Start Num: 76

Candidate Starts for Calamitous_50:

(Start: 76 @44860 has 65 MA's), (86, 44797), (88, 44782), (117, 44671), (134, 44620), (148, 44572), (156, 44524), (179, 44383), (182, 44374), (205, 44329), (207, 44323), (208, 44317), (213, 44305), (232, 44200), (236, 44167), (242, 44140), (251, 44107), (256, 44080), (263, 44056), (268, 44029), (271, 44002), (280, 43927), (285, 43882), (289, 43849), (297, 43828), (305, 43822), (315, 43789), (316, 43780), (318, 43771), (345, 43672), (361, 43609), (364, 43591), (372, 43534),

Gene: CamL_51 Start: 45234, Stop: 43831, Start Num: 74

Candidate Starts for CamL_51:

(10, 45612), (12, 45567), (18, 45525), (26, 45444), (36, 45399), (Start: 74 @45234 has 212 MA's), (Start: 76 @45231 has 65 MA's), (Start: 77 @45225 has 1 MA's), (84, 45183), (97, 45111), (Start: 105 @45090 has 5 MA's), (Start: 135 @44994 has 1 MA's), (149, 44943), (161, 44877), (162, 44874), (167, 44823), (182, 44757), (186, 44745), (196, 44709), (213, 44664), (220, 44634), (227, 44595), (232, 44556), (236, 44523), (237, 44520), (242, 44496), (251, 44463), (254, 44442), (263, 44412), (279, 44298), (283, 44256), (285, 44235), (289, 44202), (307, 44130), (310, 44124), (320, 44076), (331, 44031), (338, 44007), (343, 43992), (348, 43968),

Gene: CampRoach_52 Start: 45368, Stop: 43965, Start Num: 74

Candidate Starts for CampRoach_52:

(Start: 74 @45368 has 212 MA's), (Start: 76 @45365 has 65 MA's), (Start: 77 @45359 has 1 MA's), (84, 45317), (97, 45245), (Start: 105 @45224 has 5 MA's), (Start: 135 @45128 has 1 MA's), (149, 45077), (161, 45011), (162, 45008), (167, 44957), (182, 44891), (186, 44879), (196, 44843), (213, 44798), (220, 44768), (227, 44729), (232, 44690), (236, 44657), (237, 44654), (239, 44648), (242, 44630), (251, 44597), (254, 44576), (263, 44546), (279, 44432), (283, 44390), (285, 44369), (289, 44336), (307, 44264), (310, 44258), (320, 44210), (331, 44165), (338, 44141), (343, 44126), (348, 44102),

Gene: Cannibal_51 Start: 45217, Stop: 43814, Start Num: 74

Candidate Starts for Cannibal_51:

(10, 45595), (12, 45550), (18, 45508), (26, 45427), (36, 45382), (Start: 74 @45217 has 212 MA's), (Start: 76 @45214 has 65 MA's), (Start: 77 @45208 has 1 MA's), (84, 45166), (97, 45094), (Start: 105 @45073 has 5 MA's), (Start: 135 @44977 has 1 MA's), (149, 44926), (161, 44860), (162, 44857), (167, 44806), (182, 44740), (186, 44728), (196, 44692), (213, 44647), (220, 44617), (227, 44578), (232, 44539), (236, 44506), (237, 44503), (242, 44479), (251, 44446), (254, 44425), (263, 44395), (279, 44281), (283, 44239), (285, 44218), (289, 44185), (307, 44113), (310, 44107), (320, 44059), (331, 44014), (338, 43990), (343, 43975), (348, 43951),

Gene: Carthage_49 Start: 44164, Stop: 42761, Start Num: 74

Candidate Starts for Carthage_49:

(36, 44329), (Start: 74 @44164 has 212 MA's), (Start: 76 @44161 has 65 MA's), (Start: 77 @44155 has 1 MA's), (84, 44113), (97, 44041), (Start: 105 @44020 has 5 MA's), (Start: 135 @43924 has 1 MA's), (149, 43873), (161, 43807), (162, 43804), (167, 43753), (182, 43687), (186, 43675), (196, 43639), (213, 43594), (220, 43564), (227, 43525), (232, 43486), (236, 43453), (237, 43450), (239, 43444), (242, 43426), (251, 43393), (254, 43372), (263, 43342), (279, 43228), (283, 43186), (285, 43165), (289, 43132), (307, 43060), (310, 43054), (320, 43006), (331, 42961), (338, 42937), (343, 42922), (348, 42898),

Gene: Casbah_48 Start: 44727, Stop: 43114, Start Num: 34

Candidate Starts for Casbah_48:

(14, 44853), (16, 44847), (19, 44832), (Start: 32 @44736 has 9 MA's), (Start: 34 @44727 has 41 MA's), (49, 44631), (Start: 72 @44553 has 8 MA's), (98, 44418), (Start: 135 @44259 has 1 MA's), (141, 44244), (143, 44232), (149, 44202), (158, 44160), (167, 44082), (203, 43950), (210, 43917), (213, 43908), (231, 43815), (237, 43767), (240, 43752), (242, 43743), (256, 43683), (263, 43659), (278, 43569), (289, 43458), (307, 43425), (308, 43422), (311, 43407), (317, 43386), (324, 43353),

Gene: Caspiboi_52 Start: 44943, Stop: 43540, Start Num: 74

Candidate Starts for Caspiboi_52:

(36, 45108), (Start: 74 @44943 has 212 MA's), (Start: 76 @44940 has 65 MA's), (Start: 77 @44934 has 1 MA's), (84, 44892), (97, 44820), (Start: 105 @44799 has 5 MA's), (Start: 135 @44703 has 1 MA's), (149, 44652), (161, 44586), (162, 44583), (167, 44532), (182, 44466), (186, 44454), (196, 44418), (213, 44373), (220, 44343), (227, 44304), (232, 44265), (236, 44232), (237, 44229), (242, 44205), (251, 44172), (254, 44151), (263, 44121), (279, 44007), (283, 43965), (285, 43944), (289, 43911), (307, 43839), (310, 43833), (320, 43785), (331, 43740), (338, 43716), (343, 43701), (348, 43677),

Gene: ChaChing_49 Start: 44890, Stop: 43277, Start Num: 34

Candidate Starts for ChaChing_49:

(14, 45016), (16, 45010), (19, 44995), (Start: 32 @44899 has 9 MA's), (Start: 34 @44890 has 41 MA's), (49, 44794), (Start: 72 @44716 has 8 MA's), (98, 44581), (Start: 135 @44422 has 1 MA's), (141, 44407), (143, 44395), (149, 44365), (158, 44323), (167, 44245), (181, 44179), (182, 44176), (203, 44113), (210, 44080), (213, 44071), (231, 43978), (237, 43930), (240, 43915), (242, 43906), (256,

43846), (263, 43822), (278, 43732), (289, 43621), (307, 43588), (308, 43585), (311, 43570), (317, 43549), (324, 43516),

Gene: Chaelin_51 Start: 44940, Stop: 43537, Start Num: 74

Candidate Starts for Chaelin_51:

(10, 45318), (12, 45273), (18, 45231), (26, 45150), (36, 45105), (Start: 74 @44940 has 212 MA's), (Start: 76 @44937 has 65 MA's), (Start: 77 @44931 has 1 MA's), (84, 44889), (97, 44817), (Start: 105 @44796 has 5 MA's), (Start: 135 @44700 has 1 MA's), (149, 44649), (161, 44583), (162, 44580), (167, 44529), (182, 44463), (186, 44451), (196, 44415), (213, 44370), (220, 44340), (227, 44301), (232, 44262), (236, 44229), (237, 44226), (242, 44202), (251, 44169), (254, 44148), (263, 44118), (279, 44004), (283, 43962), (285, 43941), (289, 43908), (307, 43836), (310, 43830), (320, 43782), (331, 43737), (338, 43713), (343, 43698), (348, 43674),

Gene: Chah_53 Start: 45395, Stop: 43992, Start Num: 74

Candidate Starts for Chah_53:

(10, 45773), (12, 45728), (18, 45686), (26, 45605), (36, 45560), (Start: 74 @45395 has 212 MA's), (Start: 76 @45392 has 65 MA's), (Start: 77 @45386 has 1 MA's), (84, 45344), (97, 45272), (Start: 105 @45251 has 5 MA's), (Start: 135 @45155 has 1 MA's), (149, 45104), (161, 45038), (162, 45035), (167, 44984), (182, 44918), (186, 44906), (196, 44870), (213, 44825), (220, 44795), (227, 44756), (232, 44717), (236, 44684), (237, 44681), (242, 44657), (251, 44624), (254, 44603), (263, 44573), (279, 44459), (283, 44417), (285, 44396), (289, 44363), (307, 44291), (310, 44285), (320, 44237), (331, 44192), (338, 44168), (343, 44153), (348, 44129),

Gene: Chalmers_49 Start: 45690, Stop: 44068, Start Num: 32

Candidate Starts for Chalmers_49:

(14, 45807), (16, 45801), (19, 45786), (Start: 32 @45690 has 9 MA's), (Start: 34 @45681 has 41 MA's), (49, 45585), (Start: 72 @45507 has 8 MA's), (98, 45372), (Start: 135 @45213 has 1 MA's), (141, 45198), (143, 45186), (149, 45156), (158, 45114), (167, 45036), (181, 44970), (182, 44967), (203, 44904), (210, 44871), (213, 44862), (231, 44769), (237, 44721), (238, 44718), (240, 44706), (242, 44697), (256, 44637), (263, 44613), (278, 44523), (289, 44412), (307, 44379), (308, 44376), (311, 44361), (317, 44340), (324, 44307),

Gene: Chandler_49 Start: 45657, Stop: 44044, Start Num: 34

Candidate Starts for Chandler_49:

(14, 45783), (16, 45777), (19, 45762), (Start: 32 @45666 has 9 MA's), (Start: 34 @45657 has 41 MA's), (49, 45561), (Start: 72 @45483 has 8 MA's), (98, 45348), (Start: 135 @45189 has 1 MA's), (141, 45174), (143, 45162), (149, 45132), (158, 45090), (167, 45012), (203, 44880), (210, 44847), (213, 44838), (231, 44745), (237, 44697), (240, 44682), (242, 44673), (251, 44640), (256, 44613), (263, 44589), (278, 44499), (289, 44388), (307, 44355), (308, 44352), (311, 44337), (317, 44316), (324, 44283),

Gene: Charles1_51 Start: 45225, Stop: 43822, Start Num: 74

Candidate Starts for Charles1_51:

(36, 45390), (Start: 74 @45225 has 212 MA's), (Start: 76 @45222 has 65 MA's), (Start: 77 @45216 has 1 MA's), (84, 45174), (97, 45102), (Start: 105 @45081 has 5 MA's), (Start: 135 @44985 has 1 MA's), (149, 44934), (161, 44868), (162, 44865), (165, 44841), (167, 44814), (182, 44748), (186, 44736), (196, 44700), (213, 44655), (220, 44625), (227, 44586), (232, 44547), (236, 44514), (237, 44511), (242, 44487), (251, 44454), (254, 44433), (263, 44403), (279, 44289), (283, 44247), (285, 44226), (289, 44193), (307, 44121), (310, 44115), (320, 44067), (331, 44022), (338, 43998), (343, 43983), (348, 43959),

Gene: CharlieGBrown_50 Start: 44815, Stop: 43412, Start Num: 74

Candidate Starts for CharlieGBrown_50:

(36, 44980), (Start: 74 @44815 has 212 MA's), (Start: 76 @44812 has 65 MA's), (Start: 77 @44806 has 1 MA's), (84, 44764), (97, 44692), (Start: 105 @44671 has 5 MA's), (Start: 135 @44575 has 1 MA's), (149, 44524), (161, 44458), (162, 44455), (167, 44404), (182, 44338), (186, 44326), (196, 44290), (213, 44245), (220, 44215), (227, 44176), (232, 44137), (236, 44104), (237, 44101), (239, 44095), (242, 44077), (251, 44044), (254, 44023), (263, 43993), (279, 43879), (283, 43837), (285, 43816), (289, 43783), (307, 43711), (310, 43705), (320, 43657), (331, 43612), (338, 43588), (343, 43573), (348, 43549),

Gene: CharlottesWeb_44 Start: 37656, Stop: 36502, Start Num: 135

Candidate Starts for CharlottesWeb_44:

(Start: 135 @37656 has 1 MA's), (143, 37629), (149, 37599), (201, 37362), (210, 37344), (224, 37281), (225, 37278), (228, 37266), (251, 37137), (256, 37110), (263, 37086), (270, 37038), (273, 37026), (278, 36996), (285, 36918), (289, 36885), (301, 36852), (305, 36825), (317, 36780), (318, 36774), (324, 36747), (325, 36744), (338, 36696), (372, 36534),

Gene: CheetO_51 Start: 45257, Stop: 43854, Start Num: 74

Candidate Starts for CheetO_51:

(36, 45422), (Start: 74 @45257 has 212 MA's), (Start: 76 @45254 has 65 MA's), (Start: 77 @45248 has 1 MA's), (84, 45206), (97, 45134), (Start: 105 @45113 has 5 MA's), (Start: 135 @45017 has 1 MA's), (149, 44966), (161, 44900), (162, 44897), (167, 44846), (182, 44780), (186, 44768), (196, 44732), (213, 44687), (220, 44657), (227, 44618), (232, 44579), (236, 44546), (237, 44543), (242, 44519), (251, 44486), (254, 44465), (263, 44435), (279, 44321), (283, 44279), (285, 44258), (289, 44225), (307, 44153), (310, 44147), (320, 44099), (331, 44054), (338, 44030), (343, 44015), (348, 43991),

Gene: Chentzyk_49 Start: 45248, Stop: 43626, Start Num: 32

Candidate Starts for Chentzyk_49:

(14, 45365), (16, 45359), (19, 45344), (Start: 32 @45248 has 9 MA's), (Start: 34 @45239 has 41 MA's), (49, 45143), (Start: 72 @45065 has 8 MA's), (98, 44930), (Start: 135 @44771 has 1 MA's), (141, 44756), (143, 44744), (149, 44714), (158, 44672), (167, 44594), (203, 44462), (210, 44429), (213, 44420), (231, 44327), (237, 44279), (240, 44264), (242, 44255), (251, 44222), (256, 44195), (263, 44171), (278, 44081), (289, 43970), (307, 43937), (308, 43934), (311, 43919), (317, 43898), (324, 43865),

Gene: Cher_50 Start: 44962, Stop: 43559, Start Num: 74

Candidate Starts for Cher_50:

(10, 45340), (12, 45295), (18, 45253), (26, 45172), (36, 45127), (Start: 74 @44962 has 212 MA's), (Start: 76 @44959 has 65 MA's), (Start: 77 @44953 has 1 MA's), (84, 44911), (97, 44839), (Start: 105 @44818 has 5 MA's), (Start: 135 @44722 has 1 MA's), (149, 44671), (161, 44605), (162, 44602), (167, 44551), (182, 44485), (186, 44473), (196, 44437), (213, 44392), (220, 44362), (227, 44323), (232, 44284), (236, 44251), (237, 44248), (242, 44224), (251, 44191), (254, 44170), (263, 44140), (279, 44026), (283, 43984), (285, 43963), (289, 43930), (307, 43858), (310, 43852), (320, 43804), (331, 43759), (338, 43735), (343, 43720), (348, 43696),

Gene: Childish_50 Start: 44965, Stop: 43562, Start Num: 74

Candidate Starts for Childish_50:

(36, 45130), (Start: 74 @44965 has 212 MA's), (Start: 76 @44962 has 65 MA's), (Start: 77 @44956 has 1 MA's), (84, 44914), (97, 44842), (Start: 105 @44821 has 5 MA's), (Start: 135 @44725 has 1 MA's), (149, 44674), (161, 44608), (162, 44605), (165, 44581), (167, 44554), (182, 44488), (186, 44476), (196, 44440), (213, 44395), (220, 44365), (227, 44326), (232, 44287), (236, 44254), (237, 44251), (242, 44227), (251, 44194), (254, 44173), (263, 44143), (279, 44029), (283, 43987), (285, 43966), (289, 43933), (307, 43861), (310, 43855), (320, 43807), (331, 43762), (338, 43738), (343, 43723), (348, 43699),

Gene: Chorkpop_51 Start: 44973, Stop: 43570, Start Num: 74

Candidate Starts for Chorkpop_51:

(10, 45351), (12, 45306), (18, 45264), (26, 45183), (36, 45138), (Start: 74 @44973 has 212 MA's), (Start: 76 @44970 has 65 MA's), (Start: 77 @44964 has 1 MA's), (84, 44922), (97, 44850), (Start: 105 @44829 has 5 MA's), (Start: 135 @44733 has 1 MA's), (149, 44682), (161, 44616), (162, 44613), (167, 44562), (182, 44496), (186, 44484), (196, 44448), (213, 44403), (220, 44373), (227, 44334), (232, 44295), (236, 44262), (237, 44259), (242, 44235), (251, 44202), (254, 44181), (263, 44151), (279, 44037), (283, 43995), (285, 43974), (289, 43941), (307, 43869), (310, 43863), (320, 43815), (331, 43770), (338, 43746), (343, 43731), (348, 43707),

Gene: ChrisnMich_46 Start: 44677, Stop: 43334, Start Num: 70

Candidate Starts for ChrisnMich_46:

(Start: 70 @44677 has 9 MA's), (Start: 73 @44674 has 15 MA's), (Start: 77 @44665 has 1 MA's), (78, 44659), (87, 44608), (131, 44461), (149, 44395), (153, 44371), (182, 44209), (188, 44191), (191, 44176), (192, 44173), (204, 44146), (221, 44083), (222, 44074), (235, 43987), (237, 43978), (240, 43963), (251, 43921), (252, 43918), (254, 43900), (261, 43882), (263, 43870), (268, 43843), (273, 43810), (277, 43789), (278, 43780), (281, 43735), (282, 43729), (283, 43720), (285, 43699), (289, 43666), (310, 43627), (324, 43561), (325, 43558), (345, 43489), (348, 43471),

Gene: Chunky_51 Start: 45258, Stop: 43858, Start Num: 76

Candidate Starts for Chunky_51:

(36, 45426), (Start: 74 @45261 has 212 MA's), (Start: 76 @45258 has 65 MA's), (Start: 77 @45252 has 1 MA's), (84, 45210), (97, 45138), (Start: 105 @45117 has 5 MA's), (Start: 135 @45021 has 1 MA's), (149, 44970), (161, 44904), (162, 44901), (167, 44850), (182, 44784), (186, 44772), (196, 44736), (213, 44691), (220, 44661), (227, 44622), (232, 44583), (236, 44550), (237, 44547), (242, 44523), (251, 44490), (254, 44469), (263, 44439), (279, 44325), (283, 44283), (285, 44262), (289, 44229), (307, 44157), (310, 44151), (320, 44103), (331, 44058), (338, 44034), (343, 44019), (348, 43995),

Gene: Chute_50 Start: 45289, Stop: 43886, Start Num: 71

Candidate Starts for Chute_50:

(36, 45451), (Start: 71 @45289 has 18 MA's), (Start: 76 @45286 has 65 MA's), (84, 45238), (97, 45166), (Start: 105 @45145 has 5 MA's), (Start: 135 @45049 has 1 MA's), (149, 44998), (161, 44932), (162, 44929), (165, 44905), (167, 44878), (182, 44812), (186, 44800), (196, 44764), (213, 44719), (220, 44689), (227, 44650), (232, 44611), (236, 44578), (237, 44575), (242, 44551), (251, 44518), (254, 44497), (263, 44467), (279, 44353), (283, 44311), (285, 44290), (289, 44257), (307, 44185), (310, 44179), (320, 44131), (331, 44086), (338, 44062), (343, 44047), (348, 44023),

Gene: CloverMinnie_47 Start: 40251, Stop: 38860, Start Num: 34

Candidate Starts for CloverMinnie_47:

(9, 40455), (11, 40410), (Start: 34 @40251 has 41 MA's), (38, 40224), (44, 40173), (81, 40029), (139, 40023), (147, 39990), (149, 39972), (155, 39939), (157, 39933), (169, 39843), (185, 39783), (209, 39714), (224, 39651), (234, 39579), (236, 39567), (240, 39549), (242, 39540), (251, 39507), (263, 39456), (269, 39426), (272, 39399), (273, 39396), (285, 39288), (290, 39246), (299, 39213), (305, 39168), (310, 39156), (317, 39123), (318, 39117), (324, 39090),

Gene: Cobra_51 Start: 45246, Stop: 43843, Start Num: 74

Candidate Starts for Cobra_51:

(36, 45411), (Start: 74 @45246 has 212 MA's), (Start: 76 @45243 has 65 MA's), (Start: 77 @45237 has 1 MA's), (84, 45195), (97, 45123), (Start: 105 @45102 has 5 MA's), (Start: 135 @45006 has 1 MA's), (149, 44955), (161, 44889), (162, 44886), (167, 44835), (182, 44769), (186, 44757), (196, 44721), (213, 44676), (220, 44646), (227, 44607), (232, 44568), (236, 44535), (237, 44532), (239,

44526), (242, 44508), (251, 44475), (254, 44454), (263, 44424), (279, 44310), (283, 44268), (285, 44247), (289, 44214), (307, 44142), (310, 44136), (320, 44088), (331, 44043), (338, 44019), (343, 44004), (348, 43980),

Gene: Coffee_50 Start: 44969, Stop: 43602, Start Num: 76

Candidate Starts for Coffee_50:

(Start: 76 @44969 has 65 MA's), (86, 44906), (88, 44891), (117, 44780), (134, 44729), (148, 44681), (156, 44633), (179, 44492), (182, 44483), (205, 44438), (207, 44432), (208, 44426), (213, 44414), (232, 44309), (236, 44276), (240, 44258), (242, 44249), (251, 44216), (256, 44189), (263, 44165), (268, 44138), (271, 44111), (280, 44036), (285, 43991), (289, 43958), (297, 43937), (305, 43931), (315, 43898), (316, 43889), (318, 43880), (361, 43718), (364, 43700), (372, 43643),

Gene: Colbert_51 Start: 45310, Stop: 43910, Start Num: 76

Candidate Starts for Colbert_51:

(10, 45691), (12, 45646), (18, 45604), (26, 45523), (36, 45478), (Start: 74 @45313 has 212 MA's), (Start: 76 @45310 has 65 MA's), (Start: 77 @45304 has 1 MA's), (84, 45262), (97, 45190), (Start: 105 @45169 has 5 MA's), (Start: 135 @45073 has 1 MA's), (149, 45022), (161, 44956), (162, 44953), (167, 44902), (182, 44836), (186, 44824), (196, 44788), (213, 44743), (220, 44713), (227, 44674), (232, 44635), (236, 44602), (237, 44599), (242, 44575), (251, 44542), (254, 44521), (263, 44491), (279, 44377), (283, 44335), (285, 44314), (289, 44281), (307, 44209), (310, 44203), (320, 44155), (331, 44110), (338, 44086), (343, 44071), (348, 44047),

Gene: Coldpizza_46 Start: 41611, Stop: 40406, Start Num: 80

Candidate Starts for Coldpizza_46:

(33, 41815), (61, 41656), (80, 41611), (Start: 135 @41527 has 1 MA's), (145, 41494), (149, 41470), (155, 41437), (157, 41431), (167, 41350), (184, 41284), (210, 41230), (236, 41083), (240, 41065), (251, 41023), (254, 41002), (256, 40996), (263, 40972), (268, 40945), (278, 40882), (285, 40804), (289, 40771), (310, 40732), (317, 40699), (318, 40693), (324, 40666), (333, 40630), (355, 40552), (361, 40528),

Gene: Coletti_50 Start: 45289, Stop: 43886, Start Num: 71

Candidate Starts for Coletti_50:

(36, 45451), (Start: 71 @45289 has 18 MA's), (Start: 76 @45286 has 65 MA's), (84, 45238), (97, 45166), (Start: 105 @45145 has 5 MA's), (Start: 135 @45049 has 1 MA's), (149, 44998), (161, 44932), (162, 44929), (165, 44905), (167, 44878), (182, 44812), (186, 44800), (196, 44764), (213, 44719), (220, 44689), (227, 44650), (232, 44611), (236, 44578), (237, 44575), (242, 44551), (251, 44518), (254, 44497), (263, 44467), (279, 44353), (283, 44311), (285, 44290), (289, 44257), (307, 44185), (310, 44179), (320, 44131), (331, 44086), (338, 44062), (343, 44047), (348, 44023),

Gene: Compostia_50 Start: 45305, Stop: 43692, Start Num: 34

Candidate Starts for Compostia_50:

(14, 45431), (16, 45425), (19, 45410), (Start: 32 @45314 has 9 MA's), (Start: 34 @45305 has 41 MA's), (49, 45209), (Start: 72 @45131 has 8 MA's), (98, 44996), (Start: 135 @44837 has 1 MA's), (141, 44822), (143, 44810), (149, 44780), (158, 44738), (167, 44660), (203, 44528), (210, 44495), (213, 44486), (231, 44393), (237, 44345), (240, 44330), (242, 44321), (251, 44288), (256, 44261), (263, 44237), (278, 44147), (289, 44036), (307, 44003), (308, 44000), (311, 43985), (317, 43964), (324, 43931),

Gene: Cooper_47 Start: 44873, Stop: 43536, Start Num: 77

Candidate Starts for Cooper_47:

(44, 44969), (Start: 70 @44885 has 9 MA's), (Start: 77 @44873 has 1 MA's), (130, 44672), (149, 44597), (183, 44408), (188, 44393), (191, 44378), (218, 44309), (221, 44285), (222, 44276), (228, 44252), (237, 44180), (240, 44165), (243, 44153), (251, 44123), (252, 44120), (254, 44102), (263,

44072), (268, 44045), (276, 43994), (278, 43982), (281, 43937), (282, 43931), (283, 43922), (289, 43868), (290, 43859), (310, 43829), (324, 43763), (325, 43760), (345, 43691), (348, 43673),

Gene: Cornobble_50 Start: 44803, Stop: 43400, Start Num: 74

Candidate Starts for Cornobble_50:

(36, 44968), (Start: 74 @44803 has 212 MA's), (Start: 76 @44800 has 65 MA's), (Start: 77 @44794 has 1 MA's), (84, 44752), (97, 44680), (Start: 105 @44659 has 5 MA's), (Start: 135 @44563 has 1 MA's), (149, 44512), (161, 44446), (162, 44443), (167, 44392), (182, 44326), (186, 44314), (196, 44278), (213, 44233), (220, 44203), (227, 44164), (232, 44125), (236, 44092), (237, 44089), (242, 44065), (251, 44032), (254, 44011), (263, 43981), (279, 43867), (283, 43825), (285, 43804), (289, 43771), (307, 43699), (310, 43693), (320, 43645), (331, 43600), (338, 43576), (343, 43561), (348, 43537),

Gene: Corofin_49 Start: 44900, Stop: 43287, Start Num: 34

Candidate Starts for Corofin_49:

(14, 45026), (16, 45020), (19, 45005), (Start: 32 @44909 has 9 MA's), (Start: 34 @44900 has 41 MA's), (49, 44804), (Start: 72 @44726 has 8 MA's), (98, 44591), (Start: 135 @44432 has 1 MA's), (141, 44417), (143, 44405), (149, 44375), (158, 44333), (167, 44255), (203, 44123), (210, 44090), (213, 44081), (231, 43988), (237, 43940), (240, 43925), (242, 43916), (251, 43883), (256, 43856), (263, 43832), (278, 43742), (289, 43631), (307, 43598), (308, 43595), (311, 43580), (317, 43559), (324, 43526),

Gene: Cosmolli16_50 Start: 44953, Stop: 43550, Start Num: 71

Candidate Starts for Cosmolli16_50:

(Start: 71 @44953 has 18 MA's), (Start: 76 @44950 has 65 MA's), (Start: 77 @44944 has 1 MA's), (84, 44902), (97, 44830), (Start: 105 @44809 has 5 MA's), (Start: 135 @44713 has 1 MA's), (149, 44662), (161, 44596), (162, 44593), (167, 44542), (182, 44476), (186, 44464), (196, 44428), (213, 44383), (220, 44353), (227, 44314), (232, 44275), (236, 44242), (237, 44239), (242, 44215), (251, 44182), (254, 44161), (263, 44131), (279, 44017), (283, 43975), (285, 43954), (289, 43921), (307, 43849), (310, 43843), (320, 43795), (331, 43750), (338, 43726), (343, 43711), (348, 43687),

Gene: Craff_52 Start: 45381, Stop: 43978, Start Num: 74

Candidate Starts for Craff_52:

(36, 45546), (Start: 74 @45381 has 212 MA's), (Start: 76 @45378 has 65 MA's), (Start: 77 @45372 has 1 MA's), (84, 45330), (97, 45258), (Start: 105 @45237 has 5 MA's), (Start: 135 @45141 has 1 MA's), (149, 45090), (161, 45024), (162, 45021), (165, 44997), (167, 44970), (182, 44904), (186, 44892), (196, 44856), (213, 44811), (220, 44781), (227, 44742), (232, 44703), (236, 44670), (237, 44667), (242, 44643), (251, 44610), (254, 44589), (263, 44559), (279, 44445), (283, 44403), (285, 44382), (289, 44349), (307, 44277), (310, 44271), (320, 44223), (331, 44178), (338, 44154), (343, 44139), (348, 44115),

Gene: Crownjwl_51 Start: 45019, Stop: 43619, Start Num: 76

Candidate Starts for Crownjwl_51:

(Start: 71 @45022 has 18 MA's), (Start: 76 @45019 has 65 MA's), (Start: 77 @45013 has 1 MA's), (84, 44971), (97, 44899), (Start: 105 @44878 has 5 MA's), (Start: 135 @44782 has 1 MA's), (149, 44731), (161, 44665), (162, 44662), (167, 44611), (182, 44545), (186, 44533), (196, 44497), (213, 44452), (220, 44422), (227, 44383), (232, 44344), (236, 44311), (237, 44308), (242, 44284), (251, 44251), (254, 44230), (263, 44200), (279, 44086), (283, 44044), (285, 44023), (289, 43990), (307, 43918), (310, 43912), (320, 43864), (331, 43819), (338, 43795), (343, 43780), (348, 43756),

Gene: DaddyDaniels_51 Start: 44934, Stop: 43531, Start Num: 74

Candidate Starts for DaddyDaniels_51:

(10, 45312), (12, 45267), (18, 45225), (26, 45144), (36, 45099), (Start: 74 @44934 has 212 MA's), (Start: 76 @44931 has 65 MA's), (Start: 77 @44925 has 1 MA's), (84, 44883), (97, 44811), (Start: 105 @44790 has 5 MA's), (Start: 135 @44694 has 1 MA's), (149, 44643), (161, 44577), (162, 44574), (167, 44523), (182, 44457), (186, 44445), (196, 44409), (213, 44364), (220, 44334), (227, 44295), (232, 44256), (236, 44223), (237, 44220), (242, 44196), (251, 44163), (254, 44142), (263, 44112), (279, 43998), (283, 43956), (285, 43935), (289, 43902), (307, 43830), (310, 43824), (320, 43776), (331, 43731), (338, 43707), (343, 43692), (348, 43668),

Gene: Daffy_51 Start: 44956, Stop: 43556, Start Num: 76

Candidate Starts for Daffy_51:

(10, 45337), (12, 45292), (18, 45250), (26, 45169), (36, 45124), (Start: 74 @44959 has 212 MA's), (Start: 76 @44956 has 65 MA's), (Start: 77 @44950 has 1 MA's), (84, 44908), (97, 44836), (Start: 105 @44815 has 5 MA's), (Start: 135 @44719 has 1 MA's), (149, 44668), (161, 44602), (162, 44599), (167, 44548), (182, 44482), (186, 44470), (196, 44434), (213, 44389), (220, 44359), (227, 44320), (232, 44281), (236, 44248), (237, 44245), (242, 44221), (251, 44188), (254, 44167), (263, 44137), (279, 44023), (283, 43981), (285, 43960), (289, 43927), (307, 43855), (310, 43849), (320, 43801), (331, 43756), (338, 43732), (343, 43717), (348, 43693),

Gene: Daisy_49 Start: 44902, Stop: 43289, Start Num: 34

Candidate Starts for Daisy_49:

(14, 45028), (16, 45022), (19, 45007), (Start: 32 @44911 has 9 MA's), (Start: 34 @44902 has 41 MA's), (49, 44806), (Start: 72 @44728 has 8 MA's), (98, 44593), (Start: 135 @44434 has 1 MA's), (141, 44419), (143, 44407), (149, 44377), (158, 44335), (167, 44257), (203, 44125), (210, 44092), (213, 44083), (231, 43990), (237, 43942), (240, 43927), (242, 43918), (256, 43858), (263, 43834), (278, 43744), (289, 43633), (307, 43600), (311, 43582), (317, 43561), (324, 43528),

Gene: Daka_52 Start: 45238, Stop: 43835, Start Num: 74

Candidate Starts for Daka_52:

(10, 45616), (12, 45571), (18, 45529), (26, 45448), (36, 45403), (Start: 74 @45238 has 212 MA's), (Start: 76 @45235 has 65 MA's), (Start: 77 @45229 has 1 MA's), (84, 45187), (97, 45115), (Start: 105 @45094 has 5 MA's), (Start: 135 @44998 has 1 MA's), (149, 44947), (161, 44881), (162, 44878), (167, 44827), (182, 44761), (186, 44749), (196, 44713), (213, 44668), (220, 44638), (227, 44599), (232, 44560), (236, 44527), (237, 44524), (242, 44500), (251, 44467), (254, 44446), (263, 44416), (279, 44302), (283, 44260), (285, 44239), (289, 44206), (307, 44134), (310, 44128), (320, 44080), (331, 44035), (338, 44011), (343, 43996), (348, 43972),

Gene: Dati_51 Start: 44962, Stop: 43559, Start Num: 74

Candidate Starts for Dati_51:

(36, 45127), (Start: 74 @44962 has 212 MA's), (Start: 76 @44959 has 65 MA's), (Start: 77 @44953 has 1 MA's), (84, 44911), (97, 44839), (Start: 105 @44818 has 5 MA's), (Start: 135 @44722 has 1 MA's), (149, 44671), (161, 44605), (162, 44602), (167, 44551), (182, 44485), (186, 44473), (196, 44437), (213, 44392), (220, 44362), (227, 44323), (232, 44284), (236, 44251), (237, 44248), (239, 44242), (242, 44224), (251, 44191), (254, 44170), (263, 44140), (279, 44026), (283, 43984), (285, 43963), (289, 43930), (307, 43858), (310, 43852), (320, 43804), (331, 43759), (338, 43735), (343, 43720), (348, 43696),

Gene: Deenasa_49 Start: 45637, Stop: 44024, Start Num: 34

Candidate Starts for Deenasa_49:

(14, 45763), (16, 45757), (19, 45742), (Start: 32 @45646 has 9 MA's), (Start: 34 @45637 has 41 MA's), (49, 45541), (Start: 72 @45463 has 8 MA's), (98, 45328), (Start: 135 @45169 has 1 MA's), (141, 45154), (143, 45142), (149, 45112), (158, 45070), (167, 44992), (181, 44926), (182, 44923), (203, 44860), (210, 44827), (213, 44818), (231, 44725), (237, 44677), (238, 44674), (240, 44662), (242, 44653), (256, 44593), (263, 44569), (278, 44479), (289, 44368), (307, 44335), (308, 44332), (311,

44317), (317, 44296), (324, 44263),

Gene: DelRivs_50 Start: 44963, Stop: 43563, Start Num: 76

Candidate Starts for DelRivs_50:

(10, 45344), (12, 45299), (18, 45257), (26, 45176), (36, 45131), (Start: 74 @44966 has 212 MA's), (Start: 76 @44963 has 65 MA's), (Start: 77 @44957 has 1 MA's), (84, 44915), (97, 44843), (Start: 105 @44822 has 5 MA's), (Start: 135 @44726 has 1 MA's), (149, 44675), (161, 44609), (162, 44606), (167, 44555), (182, 44489), (186, 44477), (196, 44441), (213, 44396), (220, 44366), (227, 44327), (232, 44288), (236, 44255), (237, 44252), (242, 44228), (251, 44195), (254, 44174), (263, 44144), (279, 44030), (283, 43988), (285, 43967), (289, 43934), (307, 43862), (310, 43856), (320, 43808), (331, 43763), (338, 43739), (343, 43724), (348, 43700),

Gene: Derpp_50 Start: 44804, Stop: 43401, Start Num: 74

Candidate Starts for Derpp_50:

(10, 45182), (12, 45137), (18, 45095), (26, 45014), (36, 44969), (Start: 74 @44804 has 212 MA's), (Start: 76 @44801 has 65 MA's), (Start: 77 @44795 has 1 MA's), (84, 44753), (97, 44681), (Start: 105 @44660 has 5 MA's), (Start: 135 @44564 has 1 MA's), (149, 44513), (161, 44447), (162, 44444), (167, 44393), (182, 44327), (186, 44315), (196, 44279), (213, 44234), (220, 44204), (227, 44165), (232, 44126), (236, 44093), (237, 44090), (239, 44084), (242, 44066), (251, 44033), (254, 44012), (263, 43982), (279, 43868), (283, 43826), (285, 43805), (289, 43772), (307, 43700), (310, 43694), (320, 43646), (331, 43601), (338, 43577), (343, 43562), (348, 43538),

Gene: Devonte_49 Start: 44865, Stop: 43252, Start Num: 34

Candidate Starts for Devonte_49:

(14, 44991), (16, 44985), (19, 44970), (Start: 32 @44874 has 9 MA's), (Start: 34 @44865 has 41 MA's), (49, 44769), (Start: 72 @44691 has 8 MA's), (98, 44556), (Start: 135 @44397 has 1 MA's), (141, 44382), (143, 44370), (149, 44340), (158, 44298), (167, 44220), (181, 44154), (182, 44151), (203, 44088), (210, 44055), (213, 44046), (231, 43953), (237, 43905), (238, 43902), (240, 43890), (242, 43881), (256, 43821), (263, 43797), (278, 43707), (289, 43596), (307, 43563), (308, 43560), (311, 43545), (317, 43524), (324, 43491),

Gene: Dice_50 Start: 44930, Stop: 43527, Start Num: 74

Candidate Starts for Dice_50:

(10, 45308), (12, 45263), (18, 45221), (26, 45140), (36, 45095), (Start: 74 @44930 has 212 MA's), (Start: 76 @44927 has 65 MA's), (Start: 77 @44921 has 1 MA's), (84, 44879), (97, 44807), (Start: 105 @44786 has 5 MA's), (Start: 135 @44690 has 1 MA's), (149, 44639), (161, 44573), (162, 44570), (167, 44519), (182, 44453), (186, 44441), (196, 44405), (213, 44360), (220, 44330), (227, 44291), (232, 44252), (236, 44219), (237, 44216), (242, 44192), (251, 44159), (254, 44138), (263, 44108), (279, 43994), (283, 43952), (285, 43931), (289, 43898), (307, 43826), (310, 43820), (320, 43772), (331, 43727), (338, 43703), (343, 43688), (348, 43664),

Gene: DigitDog_50 Start: 45861, Stop: 44476, Start Num: 72

Candidate Starts for DigitDog_50:

(Start: 72 @45861 has 8 MA's), (Start: 79 @45843 has 2 MA's), (Start: 135 @45624 has 1 MA's), (144, 45594), (172, 45429), (184, 45387), (189, 45369), (194, 45354), (215, 45303), (224, 45252), (237, 45165), (240, 45150), (242, 45141), (256, 45081), (263, 45057), (264, 45054), (277, 44976), (281, 44922), (285, 44889), (289, 44856), (291, 44838), (307, 44784), (317, 44745), (318, 44739), (324, 44712), (345, 44631), (355, 44592), (364, 44550),

Gene: Dingo_51 Start: 45229, Stop: 43826, Start Num: 74

Candidate Starts for Dingo_51:

(10, 45607), (12, 45562), (18, 45520), (26, 45439), (36, 45394), (Start: 74 @45229 has 212 MA's), (Start: 76 @45226 has 65 MA's), (Start: 77 @45220 has 1 MA's), (84, 45178), (97, 45106), (Start: 105

@45085 has 5 MA's), (Start: 135 @44989 has 1 MA's), (149, 44938), (161, 44872), (162, 44869), (167, 44818), (182, 44752), (186, 44740), (196, 44704), (213, 44659), (220, 44629), (227, 44590), (232, 44551), (236, 44518), (237, 44515), (242, 44491), (251, 44458), (254, 44437), (263, 44407), (279, 44293), (283, 44251), (285, 44230), (289, 44197), (307, 44125), (310, 44119), (320, 44071), (331, 44026), (338, 44002), (343, 43987), (348, 43963),

Gene: Dione_50 Start: 44938, Stop: 43535, Start Num: 74

Candidate Starts for Dione_50:

(36, 45103), (Start: 74 @44938 has 212 MA's), (Start: 76 @44935 has 65 MA's), (Start: 77 @44929 has 1 MA's), (84, 44887), (97, 44815), (Start: 105 @44794 has 5 MA's), (Start: 135 @44698 has 1 MA's), (149, 44647), (161, 44581), (162, 44578), (167, 44527), (182, 44461), (186, 44449), (196, 44413), (213, 44368), (220, 44338), (227, 44299), (232, 44260), (236, 44227), (237, 44224), (242, 44200), (251, 44167), (254, 44146), (263, 44116), (279, 44002), (283, 43960), (285, 43939), (289, 43906), (307, 43834), (310, 43828), (320, 43780), (331, 43735), (338, 43711), (343, 43696), (348, 43672),

Gene: DirtJuice_51 Start: 45228, Stop: 43825, Start Num: 74

Candidate Starts for DirtJuice_51:

(10, 45606), (12, 45561), (18, 45519), (26, 45438), (36, 45393), (Start: 74 @45228 has 212 MA's), (Start: 76 @45225 has 65 MA's), (Start: 77 @45219 has 1 MA's), (84, 45177), (97, 45105), (Start: 105 @45084 has 5 MA's), (Start: 135 @44988 has 1 MA's), (149, 44937), (161, 44871), (162, 44868), (167, 44817), (182, 44751), (186, 44739), (196, 44703), (213, 44658), (220, 44628), (227, 44589), (232, 44550), (236, 44517), (237, 44514), (242, 44490), (251, 44457), (254, 44436), (263, 44406), (279, 44292), (283, 44250), (285, 44229), (289, 44196), (307, 44124), (310, 44118), (320, 44070), (331, 44025), (338, 44001), (343, 43986), (348, 43962),

Gene: Doddsville_51 Start: 44955, Stop: 43555, Start Num: 76

Candidate Starts for Doddsville_51:

(36, 45123), (Start: 74 @44958 has 212 MA's), (Start: 76 @44955 has 65 MA's), (Start: 77 @44949 has 1 MA's), (84, 44907), (97, 44835), (Start: 105 @44814 has 5 MA's), (Start: 135 @44718 has 1 MA's), (149, 44667), (161, 44601), (162, 44598), (165, 44574), (167, 44547), (182, 44481), (186, 44469), (196, 44433), (213, 44388), (220, 44358), (227, 44319), (232, 44280), (236, 44247), (237, 44244), (239, 44238), (242, 44220), (251, 44187), (254, 44166), (263, 44136), (279, 44022), (283, 43980), (285, 43959), (289, 43926), (307, 43854), (310, 43848), (320, 43800), (331, 43755), (338, 43731), (343, 43716), (348, 43692),

Gene: DoesntMatter_50 Start: 45231, Stop: 43828, Start Num: 74

Candidate Starts for DoesntMatter_50:

(36, 45396), (Start: 74 @45231 has 212 MA's), (Start: 76 @45228 has 65 MA's), (Start: 77 @45222 has 1 MA's), (84, 45180), (97, 45108), (Start: 105 @45087 has 5 MA's), (Start: 135 @44991 has 1 MA's), (149, 44940), (161, 44874), (162, 44871), (167, 44820), (182, 44754), (186, 44742), (196, 44706), (213, 44661), (220, 44631), (227, 44592), (232, 44553), (236, 44520), (237, 44517), (242, 44493), (251, 44460), (254, 44439), (263, 44409), (279, 44295), (283, 44253), (285, 44232), (289, 44199), (307, 44127), (310, 44121), (320, 44073), (331, 44028), (338, 44004), (343, 43989), (348, 43965),

Gene: DonSanchon_50 Start: 44941, Stop: 43538, Start Num: 74

Candidate Starts for DonSanchon_50:

(10, 45319), (12, 45274), (18, 45232), (26, 45151), (36, 45106), (Start: 74 @44941 has 212 MA's), (Start: 76 @44938 has 65 MA's), (Start: 77 @44932 has 1 MA's), (84, 44890), (97, 44818), (Start: 105 @44797 has 5 MA's), (Start: 135 @44701 has 1 MA's), (149, 44650), (161, 44584), (162, 44581), (165, 44557), (167, 44530), (182, 44464), (186, 44452), (196, 44416), (213, 44371), (220, 44341), (227, 44302), (232, 44263), (236, 44230), (237, 44227), (242, 44203), (251, 44170), (254, 44149), (263,

44119), (279, 44005), (283, 43963), (285, 43942), (289, 43909), (307, 43837), (310, 43831), (320, 43783), (331, 43738), (338, 43714), (343, 43699), (348, 43675),

Gene: Donny_51 Start: 46147, Stop: 44765, Start Num: 72

Candidate Starts for Donny_51:

(23, 46372), (Start: 72 @46147 has 8 MA's), (Start: 79 @46129 has 2 MA's), (Start: 135 @45913 has 1 MA's), (144, 45883), (172, 45718), (184, 45676), (189, 45658), (194, 45643), (215, 45592), (237, 45454), (240, 45439), (242, 45430), (253, 45379), (256, 45370), (263, 45346), (264, 45343), (281, 45211), (285, 45178), (289, 45145), (291, 45127), (307, 45073), (318, 45028), (324, 45001), (345, 44920), (348, 44902), (364, 44839),

Gene: DuchessDung_50 Start: 44230, Stop: 42827, Start Num: 71

Candidate Starts for DuchessDung_50:

(36, 44392), (Start: 71 @44230 has 18 MA's), (Start: 76 @44227 has 65 MA's), (84, 44179), (97, 44107), (Start: 105 @44086 has 5 MA's), (Start: 135 @43990 has 1 MA's), (149, 43939), (161, 43873), (162, 43870), (165, 43846), (167, 43819), (182, 43753), (186, 43741), (196, 43705), (213, 43660), (220, 43630), (227, 43591), (232, 43552), (236, 43519), (237, 43516), (242, 43492), (251, 43459), (254, 43438), (263, 43408), (283, 43252), (285, 43231), (289, 43198), (307, 43126), (310, 43120), (320, 43072), (331, 43027), (338, 43003), (343, 42988), (348, 42964),

Gene: Duggie_50 Start: 44957, Stop: 43557, Start Num: 76

Candidate Starts for Duggie_50:

(36, 45122), (Start: 71 @44960 has 18 MA's), (Start: 76 @44957 has 65 MA's), (84, 44909), (97, 44837), (Start: 105 @44816 has 5 MA's), (Start: 135 @44720 has 1 MA's), (149, 44669), (161, 44603), (162, 44600), (165, 44576), (167, 44549), (182, 44483), (186, 44471), (196, 44435), (213, 44390), (220, 44360), (227, 44321), (232, 44282), (236, 44249), (237, 44246), (239, 44240), (242, 44222), (251, 44189), (254, 44168), (263, 44138), (279, 44024), (283, 43982), (285, 43961), (289, 43928), (307, 43856), (310, 43850), (320, 43802), (331, 43757), (338, 43733), (343, 43718), (348, 43694),

Gene: Durga_52 Start: 45396, Stop: 43993, Start Num: 74

Candidate Starts for Durga_52:

(36, 45561), (Start: 74 @45396 has 212 MA's), (Start: 76 @45393 has 65 MA's), (Start: 77 @45387 has 1 MA's), (84, 45345), (97, 45273), (Start: 105 @45252 has 5 MA's), (Start: 135 @45156 has 1 MA's), (149, 45105), (161, 45039), (162, 45036), (167, 44985), (182, 44919), (186, 44907), (196, 44871), (213, 44826), (220, 44796), (227, 44757), (232, 44718), (236, 44685), (237, 44682), (239, 44676), (242, 44658), (251, 44625), (254, 44604), (263, 44574), (279, 44460), (283, 44418), (285, 44397), (289, 44364), (307, 44292), (310, 44286), (320, 44238), (331, 44193), (338, 44169), (343, 44154), (348, 44130),

Gene: Eaglehorse_50 Start: 44895, Stop: 43528, Start Num: 76

Candidate Starts for Eaglehorse_50:

(Start: 76 @44895 has 65 MA's), (86, 44832), (88, 44817), (117, 44706), (134, 44655), (148, 44607), (156, 44559), (179, 44418), (182, 44409), (205, 44364), (207, 44358), (208, 44352), (213, 44340), (232, 44235), (236, 44202), (242, 44175), (251, 44142), (256, 44115), (263, 44091), (268, 44064), (271, 44037), (280, 43962), (285, 43917), (289, 43884), (297, 43863), (305, 43857), (315, 43824), (316, 43815), (318, 43806), (361, 43644), (364, 43626), (372, 43569),

Gene: EastView9101_49 Start: 45797, Stop: 44415, Start Num: 72

Candidate Starts for EastView9101_49:

(23, 46022), (Start: 72 @45797 has 8 MA's), (Start: 79 @45779 has 2 MA's), (Start: 135 @45563 has 1 MA's), (144, 45533), (172, 45368), (184, 45326), (189, 45308), (194, 45293), (215, 45242), (237, 45104), (242, 45080), (253, 45029), (256, 45020), (263, 44996), (264, 44993), (281, 44861), (285, 44828), (289, 44795), (291, 44777), (307, 44723), (318, 44678), (324, 44651), (345, 44570), (348,

44552), (364, 44489),

Gene: ElvisPhasley_54 Start: 45418, Stop: 44015, Start Num: 74

Candidate Starts for ElvisPhasley_54:

(36, 45583), (Start: 74 @45418 has 212 MA's), (Start: 76 @45415 has 65 MA's), (Start: 77 @45409 has 1 MA's), (84, 45367), (97, 45295), (Start: 105 @45274 has 5 MA's), (Start: 135 @45178 has 1 MA's), (149, 45127), (161, 45061), (162, 45058), (167, 45007), (182, 44941), (186, 44929), (196, 44893), (213, 44848), (220, 44818), (227, 44779), (232, 44740), (236, 44707), (237, 44704), (242, 44680), (251, 44647), (254, 44626), (263, 44596), (279, 44482), (283, 44440), (285, 44419), (289, 44386), (307, 44314), (310, 44308), (320, 44260), (331, 44215), (338, 44191), (343, 44176), (348, 44152),

Gene: EmiRose_30 Start: 23905, Stop: 22832, Start Num: 128

Candidate Starts for EmiRose_30:

(Start: 128 @23905 has 1 MA's), (129, 23899), (162, 23782), (177, 23677), (178, 23674), (234, 23506), (237, 23491), (240, 23476), (250, 23437), (261, 23395), (268, 23362), (269, 23359), (275, 23317), (281, 23257), (282, 23251), (289, 23191), (290, 23182), (317, 23119), (326, 23080),

Gene: Emiris_52 Start: 45364, Stop: 43961, Start Num: 74

Candidate Starts for Emiris_52:

(36, 45529), (Start: 74 @45364 has 212 MA's), (Start: 76 @45361 has 65 MA's), (Start: 77 @45355 has 1 MA's), (84, 45313), (97, 45241), (Start: 105 @45220 has 5 MA's), (Start: 135 @45124 has 1 MA's), (149, 45073), (161, 45007), (162, 45004), (167, 44953), (182, 44887), (186, 44875), (196, 44839), (213, 44794), (220, 44764), (227, 44725), (232, 44686), (236, 44653), (237, 44650), (239, 44644), (242, 44626), (251, 44593), (254, 44572), (263, 44542), (279, 44428), (283, 44386), (285, 44365), (289, 44332), (307, 44260), (310, 44254), (320, 44206), (331, 44161), (338, 44137), (343, 44122), (348, 44098),

Gene: EmpTee_51 Start: 45244, Stop: 43841, Start Num: 74

Candidate Starts for EmpTee_51:

(10, 45622), (12, 45577), (18, 45535), (26, 45454), (36, 45409), (Start: 74 @45244 has 212 MA's), (Start: 76 @45241 has 65 MA's), (Start: 77 @45235 has 1 MA's), (84, 45193), (97, 45121), (Start: 105 @45100 has 5 MA's), (Start: 135 @45004 has 1 MA's), (149, 44953), (161, 44887), (162, 44884), (167, 44833), (182, 44767), (186, 44755), (196, 44719), (213, 44674), (220, 44644), (227, 44605), (232, 44566), (236, 44533), (237, 44530), (242, 44506), (251, 44473), (254, 44452), (263, 44422), (279, 44308), (283, 44266), (285, 44245), (289, 44212), (307, 44140), (310, 44134), (320, 44086), (331, 44041), (338, 44017), (343, 44002), (348, 43978),

Gene: Epah_45 Start: 44672, Stop: 43332, Start Num: 73

Candidate Starts for Epah_45:

(Start: 70 @44675 has 9 MA's), (Start: 73 @44672 has 15 MA's), (Start: 77 @44663 has 1 MA's), (78, 44657), (87, 44606), (131, 44459), (149, 44393), (153, 44369), (182, 44207), (188, 44189), (191, 44174), (192, 44171), (204, 44144), (221, 44081), (222, 44072), (235, 43985), (240, 43961), (251, 43919), (252, 43916), (254, 43898), (263, 43868), (268, 43841), (273, 43808), (277, 43787), (278, 43778), (281, 43733), (282, 43727), (283, 43718), (285, 43697), (289, 43664), (310, 43625), (324, 43559), (325, 43556), (345, 43487), (348, 43469),

Gene: Eremos_51 Start: 45237, Stop: 43834, Start Num: 74

Candidate Starts for Eremos_51:

(36, 45402), (Start: 74 @45237 has 212 MA's), (Start: 76 @45234 has 65 MA's), (Start: 77 @45228 has 1 MA's), (84, 45186), (97, 45114), (Start: 105 @45093 has 5 MA's), (Start: 135 @44997 has 1 MA's), (149, 44946), (161, 44880), (162, 44877), (167, 44826), (182, 44760), (186, 44748), (196, 44712), (213, 44667), (220, 44637), (227, 44598), (232, 44559), (236, 44526), (237, 44523), (242,

44499), (251, 44466), (254, 44445), (263, 44415), (279, 44301), (283, 44259), (285, 44238), (289, 44205), (307, 44133), (310, 44127), (320, 44079), (331, 44034), (338, 44010), (343, 43995), (348, 43971),

Gene: Etaye_51 Start: 45231, Stop: 43828, Start Num: 74

Candidate Starts for Etaye_51:

(36, 45396), (Start: 74 @45231 has 212 MA's), (Start: 76 @45228 has 65 MA's), (Start: 77 @45222 has 1 MA's), (84, 45180), (97, 45108), (Start: 105 @45087 has 5 MA's), (Start: 135 @44991 has 1 MA's), (149, 44940), (161, 44874), (162, 44871), (167, 44820), (182, 44754), (186, 44742), (196, 44706), (213, 44661), (220, 44631), (227, 44592), (232, 44553), (236, 44520), (237, 44517), (239, 44511), (242, 44493), (251, 44460), (254, 44439), (263, 44409), (279, 44295), (283, 44253), (285, 44232), (289, 44199), (307, 44127), (310, 44121), (320, 44073), (331, 44028), (338, 44004), (343, 43989), (348, 43965),

Gene: Eugenia_51 Start: 45241, Stop: 43838, Start Num: 74

Candidate Starts for Eugenia_51:

(36, 45406), (Start: 74 @45241 has 212 MA's), (Start: 76 @45238 has 65 MA's), (Start: 77 @45232 has 1 MA's), (84, 45190), (97, 45118), (Start: 105 @45097 has 5 MA's), (Start: 135 @45001 has 1 MA's), (149, 44950), (161, 44884), (162, 44881), (165, 44857), (167, 44830), (182, 44764), (186, 44752), (196, 44716), (213, 44671), (220, 44641), (227, 44602), (232, 44563), (236, 44530), (237, 44527), (242, 44503), (251, 44470), (254, 44449), (263, 44419), (279, 44305), (283, 44263), (285, 44242), (289, 44209), (307, 44137), (310, 44131), (320, 44083), (331, 44038), (338, 44014), (343, 43999), (348, 43975),

Gene: Evaa_44 Start: 38752, Stop: 37496, Start Num: 60

Candidate Starts for Evaa_44:

(Start: 60 @38752 has 1 MA's), (80, 38713), (Start: 135 @38626 has 1 MA's), (139, 38620), (149, 38569), (155, 38536), (157, 38530), (184, 38383), (236, 38167), (247, 38122), (263, 38056), (268, 38029), (273, 37996), (285, 37888), (289, 37855), (310, 37816), (317, 37783), (318, 37777), (324, 37750), (333, 37714), (348, 37657), (361, 37612),

Gene: Fanaw_45 Start: 45368, Stop: 44028, Start Num: 73

Candidate Starts for Fanaw_45:

(Start: 70 @45371 has 9 MA's), (Start: 73 @45368 has 15 MA's), (Start: 77 @45359 has 1 MA's), (78, 45353), (87, 45302), (131, 45155), (144, 45110), (149, 45089), (171, 44948), (175, 44924), (182, 44903), (183, 44900), (188, 44885), (191, 44870), (218, 44801), (220, 44786), (222, 44768), (228, 44744), (237, 44672), (240, 44657), (242, 44648), (251, 44615), (252, 44612), (254, 44594), (263, 44564), (273, 44504), (276, 44486), (278, 44474), (281, 44429), (282, 44423), (283, 44414), (288, 44384), (289, 44360), (310, 44321), (319, 44276), (324, 44255), (325, 44252), (345, 44183), (348, 44165),

Gene: Fang_52 Start: 45389, Stop: 43986, Start Num: 74

Candidate Starts for Fang_52:

(10, 45767), (12, 45722), (18, 45680), (26, 45599), (36, 45554), (Start: 74 @45389 has 212 MA's), (Start: 76 @45386 has 65 MA's), (Start: 77 @45380 has 1 MA's), (84, 45338), (97, 45266), (Start: 105 @45245 has 5 MA's), (Start: 135 @45149 has 1 MA's), (149, 45098), (161, 45032), (162, 45029), (165, 45005), (167, 44978), (182, 44912), (186, 44900), (196, 44864), (213, 44819), (220, 44789), (227, 44750), (232, 44711), (236, 44678), (237, 44675), (242, 44651), (251, 44618), (254, 44597), (263, 44567), (279, 44453), (283, 44411), (285, 44390), (289, 44357), (307, 44285), (310, 44279), (320, 44231), (331, 44186), (338, 44162), (343, 44147), (348, 44123),

Gene: Faze9_49 Start: 44989, Stop: 43622, Start Num: 76

Candidate Starts for Faze9_49:

(Start: 76 @44989 has 65 MA's), (86, 44926), (88, 44911), (117, 44800), (134, 44749), (148, 44701), (156, 44653), (179, 44512), (182, 44503), (205, 44458), (207, 44452), (208, 44446), (213, 44434), (232, 44329), (236, 44296), (242, 44269), (251, 44236), (256, 44209), (263, 44185), (268, 44158), (271, 44131), (280, 44056), (285, 44011), (289, 43978), (297, 43957), (305, 43951), (315, 43918), (316, 43909), (318, 43900), (361, 43738), (364, 43720), (372, 43663),

Gene: FluffyNinja_52 Start: 45403, Stop: 44000, Start Num: 74

Candidate Starts for FluffyNinja_52:

(10, 45781), (12, 45736), (18, 45694), (26, 45613), (36, 45568), (Start: 74 @45403 has 212 MA's), (Start: 76 @45400 has 65 MA's), (Start: 77 @45394 has 1 MA's), (84, 45352), (97, 45280), (Start: 105 @45259 has 5 MA's), (Start: 135 @45163 has 1 MA's), (149, 45112), (161, 45046), (162, 45043), (167, 44992), (182, 44926), (186, 44914), (196, 44878), (213, 44833), (220, 44803), (227, 44764), (232, 44725), (236, 44692), (237, 44689), (242, 44665), (251, 44632), (254, 44611), (263, 44581), (279, 44467), (283, 44425), (285, 44404), (289, 44371), (307, 44299), (310, 44293), (320, 44245), (331, 44200), (338, 44176), (343, 44161), (348, 44137),

Gene: ForDig_45 Start: 43545, Stop: 42115, Start Num: 68

Candidate Starts for ForDig_45:

(42, 43635), (45, 43611), (54, 43575), (Start: 68 @43545 has 2 MA's), (Start: 77 @43527 has 1 MA's), (116, 43323), (122, 43305), (131, 43251), (140, 43224), (148, 43188), (149, 43176), (180, 42996), (182, 42990), (188, 42972), (191, 42957), (218, 42891), (222, 42858), (224, 42849), (227, 42837), (228, 42834), (237, 42762), (239, 42756), (240, 42747), (242, 42738), (243, 42735), (255, 42681), (261, 42666), (268, 42627), (272, 42597), (283, 42504), (285, 42483), (289, 42450), (310, 42411), (319, 42366), (323, 42348), (325, 42342), (336, 42297),

Gene: Fortunato_47 Start: 45732, Stop: 44389, Start Num: 70

Candidate Starts for Fortunato_47:

(Start: 70 @45732 has 9 MA's), (Start: 73 @45729 has 15 MA's), (Start: 77 @45720 has 1 MA's), (78, 45714), (87, 45663), (131, 45516), (144, 45471), (149, 45450), (171, 45309), (175, 45285), (182, 45264), (183, 45261), (188, 45246), (191, 45231), (218, 45162), (220, 45147), (228, 45105), (237, 45033), (240, 45018), (242, 45009), (251, 44976), (252, 44973), (254, 44955), (263, 44925), (273, 44865), (276, 44847), (278, 44835), (281, 44790), (282, 44784), (283, 44775), (288, 44745), (289, 44721), (310, 44682), (319, 44637), (324, 44616), (325, 44613), (345, 44544), (348, 44526),

Gene: Fozzie_50 Start: 45266, Stop: 43863, Start Num: 74

Candidate Starts for Fozzie_50:

(10, 45644), (12, 45599), (18, 45557), (26, 45476), (36, 45431), (Start: 74 @45266 has 212 MA's), (Start: 76 @45263 has 65 MA's), (Start: 77 @45257 has 1 MA's), (84, 45215), (97, 45143), (Start: 105 @45122 has 5 MA's), (Start: 135 @45026 has 1 MA's), (149, 44975), (161, 44909), (162, 44906), (167, 44855), (182, 44789), (186, 44777), (196, 44741), (213, 44696), (220, 44666), (227, 44627), (232, 44588), (236, 44555), (237, 44552), (242, 44528), (251, 44495), (254, 44474), (263, 44444), (279, 44330), (283, 44288), (285, 44267), (289, 44234), (307, 44162), (310, 44156), (320, 44108), (331, 44063), (338, 44039), (343, 44024), (348, 44000),

Gene: Frankicide_51 Start: 45268, Stop: 43865, Start Num: 74

Candidate Starts for Frankicide_51:

(36, 45433), (Start: 74 @45268 has 212 MA's), (Start: 76 @45265 has 65 MA's), (Start: 77 @45259 has 1 MA's), (84, 45217), (97, 45145), (Start: 105 @45124 has 5 MA's), (Start: 135 @45028 has 1 MA's), (149, 44977), (161, 44911), (162, 44908), (165, 44884), (167, 44857), (182, 44791), (186, 44779), (196, 44743), (213, 44698), (220, 44668), (227, 44629), (232, 44590), (236, 44557), (237, 44554), (242, 44530), (251, 44497), (254, 44476), (263, 44446), (279, 44332), (283, 44290), (285, 44269), (289, 44236), (307, 44164), (310, 44158), (320, 44110), (331, 44065), (338, 44041), (343, 44026), (348, 44002),

Gene: Frederick_47 Start: 45702, Stop: 44362, Start Num: 73

Candidate Starts for Frederick_47:

(Start: 70 @45705 has 9 MA's), (Start: 73 @45702 has 15 MA's), (Start: 77 @45693 has 1 MA's), (78, 45687), (87, 45636), (131, 45489), (144, 45444), (149, 45423), (171, 45282), (175, 45258), (182, 45237), (183, 45234), (188, 45219), (191, 45204), (218, 45135), (228, 45078), (240, 44991), (242, 44982), (251, 44949), (252, 44946), (254, 44928), (263, 44898), (273, 44838), (276, 44820), (278, 44808), (281, 44763), (282, 44757), (283, 44748), (285, 44727), (288, 44718), (289, 44694), (310, 44655), (324, 44589), (325, 44586), (343, 44523), (345, 44517), (348, 44499),

Gene: FrenchFry_50 Start: 44968, Stop: 43601, Start Num: 76

Candidate Starts for FrenchFry_50:

(Start: 76 @44968 has 65 MA's), (86, 44905), (88, 44890), (117, 44779), (134, 44728), (148, 44680), (156, 44632), (179, 44491), (182, 44482), (205, 44437), (207, 44431), (208, 44425), (213, 44413), (232, 44308), (236, 44275), (240, 44257), (242, 44248), (251, 44215), (256, 44188), (263, 44164), (268, 44137), (271, 44110), (280, 44035), (285, 43990), (289, 43957), (297, 43936), (305, 43930), (315, 43897), (318, 43879), (361, 43717), (364, 43699), (372, 43642),

Gene: Fresco_44 Start: 37982, Stop: 36669, Start Num: 57

Candidate Starts for Fresco_44:

(Start: 56 @37985 has 1 MA's), (Start: 57 @37982 has 3 MA's), (Start: 135 @37823 has 1 MA's), (139, 37817), (149, 37766), (210, 37511), (218, 37490), (225, 37445), (228, 37433), (251, 37304), (256, 37277), (263, 37253), (269, 37223), (270, 37205), (273, 37193), (278, 37163), (280, 37130), (285, 37085), (289, 37052), (301, 37019), (305, 36992), (317, 36947), (318, 36941), (324, 36914), (325, 36911), (338, 36863), (372, 36701),

Gene: Freya_50 Start: 44929, Stop: 43526, Start Num: 74

Candidate Starts for Freya_50:

(36, 45094), (Start: 74 @44929 has 212 MA's), (Start: 76 @44926 has 65 MA's), (Start: 77 @44920 has 1 MA's), (84, 44878), (97, 44806), (Start: 105 @44785 has 5 MA's), (Start: 135 @44689 has 1 MA's), (149, 44638), (161, 44572), (162, 44569), (167, 44518), (182, 44452), (186, 44440), (196, 44404), (213, 44359), (220, 44329), (227, 44290), (232, 44251), (236, 44218), (237, 44215), (242, 44191), (251, 44158), (254, 44137), (263, 44107), (279, 43993), (283, 43951), (285, 43930), (289, 43897), (307, 43825), (310, 43819), (320, 43771), (331, 43726), (338, 43702), (343, 43687), (348, 43663),

Gene: FriarPreacher_50 Start: 45280, Stop: 43877, Start Num: 74

Candidate Starts for FriarPreacher_50:

(10, 45658), (12, 45613), (18, 45571), (26, 45490), (36, 45445), (Start: 74 @45280 has 212 MA's), (Start: 76 @45277 has 65 MA's), (Start: 77 @45271 has 1 MA's), (84, 45229), (97, 45157), (Start: 105 @45136 has 5 MA's), (Start: 135 @45040 has 1 MA's), (149, 44989), (161, 44923), (162, 44920), (167, 44869), (182, 44803), (186, 44791), (196, 44755), (213, 44710), (220, 44680), (227, 44641), (232, 44602), (236, 44569), (237, 44566), (242, 44542), (251, 44509), (254, 44488), (263, 44458), (279, 44344), (283, 44302), (285, 44281), (289, 44248), (307, 44176), (310, 44170), (320, 44122), (331, 44077), (338, 44053), (343, 44038), (348, 44014),

Gene: Fringe_52 Start: 45365, Stop: 43962, Start Num: 74

Candidate Starts for Fringe_52:

(10, 45743), (12, 45698), (18, 45656), (26, 45575), (36, 45530), (Start: 74 @45365 has 212 MA's), (Start: 76 @45362 has 65 MA's), (Start: 77 @45356 has 1 MA's), (84, 45314), (97, 45242), (Start: 105 @45221 has 5 MA's), (Start: 135 @45125 has 1 MA's), (149, 45074), (161, 45008), (162, 45005), (167, 44954), (182, 44888), (186, 44876), (196, 44840), (213, 44795), (220, 44765), (227, 44726), (232, 44687), (236, 44654), (237, 44651), (242, 44627), (251, 44594), (254, 44573), (263, 44543), (279,

44429), (283, 44387), (285, 44366), (289, 44333), (307, 44261), (310, 44255), (320, 44207), (331, 44162), (338, 44138), (343, 44123), (348, 44099),

Gene: FugateOSU_50 Start: 44943, Stop: 43540, Start Num: 74

Candidate Starts for FugateOSU_50:

(36, 45108), (Start: 74 @44943 has 212 MA's), (Start: 76 @44940 has 65 MA's), (Start: 77 @44934 has 1 MA's), (84, 44892), (97, 44820), (Start: 105 @44799 has 5 MA's), (Start: 135 @44703 has 1 MA's), (149, 44652), (161, 44586), (162, 44583), (165, 44559), (167, 44532), (182, 44466), (186, 44454), (196, 44418), (213, 44373), (220, 44343), (227, 44304), (232, 44265), (236, 44232), (237, 44229), (242, 44205), (251, 44172), (254, 44151), (263, 44121), (279, 44007), (283, 43965), (285, 43944), (289, 43911), (307, 43839), (310, 43833), (320, 43785), (331, 43740), (338, 43716), (343, 43701), (348, 43677),

Gene: Funsized_54 Start: 48470, Stop: 47079, Start Num: 66

Candidate Starts for Funsized_54:

(Start: 66 @48470 has 2 MA's), (Start: 77 @48449 has 1 MA's), (118, 48281), (119, 48278), (121, 48272), (Start: 135 @48197 has 1 MA's), (155, 48113), (158, 48104), (169, 48017), (182, 47960), (188, 47942), (198, 47915), (222, 47834), (224, 47825), (228, 47810), (235, 47747), (237, 47738), (239, 47732), (240, 47723), (243, 47711), (252, 47678), (261, 47642), (263, 47630), (267, 47600), (268, 47594), (270, 47573), (276, 47543), (278, 47531), (281, 47486), (285, 47450), (289, 47417), (307, 47384), (310, 47378), (324, 47312), (329, 47294), (338, 47261), (343, 47246), (367, 47138), (372, 47102),

Gene: Gadget_50 Start: 44888, Stop: 43275, Start Num: 30

Candidate Starts for Gadget_50:

(13, 44993), (Start: 30 @44888 has 1 MA's), (49, 44789), (62, 44732), (Start: 72 @44711 has 8 MA's), (96, 44588), (98, 44576), (108, 44552), (112, 44537), (Start: 135 @44420 has 1 MA's), (141, 44405), (143, 44393), (149, 44363), (158, 44321), (167, 44243), (181, 44177), (182, 44174), (203, 44111), (210, 44078), (213, 44069), (231, 43976), (237, 43928), (238, 43925), (240, 43913), (242, 43904), (256, 43844), (263, 43820), (278, 43730), (289, 43619), (307, 43586), (308, 43583), (311, 43568), (317, 43547), (324, 43514),

Gene: Gareth_50 Start: 44937, Stop: 43534, Start Num: 74

Candidate Starts for Gareth_50:

(10, 45315), (12, 45270), (18, 45228), (26, 45147), (36, 45102), (Start: 74 @44937 has 212 MA's), (Start: 76 @44934 has 65 MA's), (Start: 77 @44928 has 1 MA's), (84, 44886), (97, 44814), (Start: 105 @44793 has 5 MA's), (Start: 135 @44697 has 1 MA's), (149, 44646), (161, 44580), (162, 44577), (167, 44526), (182, 44460), (186, 44448), (196, 44412), (213, 44367), (220, 44337), (227, 44298), (232, 44259), (236, 44226), (237, 44223), (242, 44199), (251, 44166), (254, 44145), (263, 44115), (279, 44001), (283, 43959), (285, 43938), (289, 43905), (307, 43833), (310, 43827), (320, 43779), (331, 43734), (338, 43710), (343, 43695), (348, 43671),

Gene: GeneCoco_51 Start: 45252, Stop: 43849, Start Num: 74

Candidate Starts for GeneCoco_51:

(10, 45630), (12, 45585), (18, 45543), (26, 45462), (36, 45417), (Start: 74 @45252 has 212 MA's), (Start: 76 @45249 has 65 MA's), (Start: 77 @45243 has 1 MA's), (84, 45201), (97, 45129), (Start: 105 @45108 has 5 MA's), (Start: 135 @45012 has 1 MA's), (149, 44961), (161, 44895), (162, 44892), (167, 44841), (182, 44775), (186, 44763), (196, 44727), (213, 44682), (220, 44652), (227, 44613), (232, 44574), (236, 44541), (237, 44538), (239, 44532), (242, 44514), (251, 44481), (254, 44460), (263, 44430), (279, 44316), (283, 44274), (285, 44253), (289, 44220), (307, 44148), (310, 44142), (320, 44094), (331, 44049), (338, 44025), (343, 44010), (348, 43986),

Gene: Gervas_49 Start: 44856, Stop: 43243, Start Num: 34

Candidate Starts for Gervas_49:

(14, 44982), (16, 44976), (19, 44961), (Start: 32 @44865 has 9 MA's), (Start: 34 @44856 has 41 MA's), (49, 44760), (Start: 72 @44682 has 8 MA's), (98, 44547), (Start: 135 @44388 has 1 MA's), (141, 44373), (143, 44361), (149, 44331), (158, 44289), (167, 44211), (203, 44079), (210, 44046), (213, 44037), (231, 43944), (237, 43896), (240, 43881), (242, 43872), (251, 43839), (256, 43812), (263, 43788), (278, 43698), (289, 43587), (307, 43554), (311, 43536), (317, 43515), (324, 43482),

Gene: GinPorsche_45 Start: 44672, Stop: 43332, Start Num: 73

Candidate Starts for GinPorsche_45:

(Start: 70 @44675 has 9 MA's), (Start: 73 @44672 has 15 MA's), (Start: 77 @44663 has 1 MA's), (78, 44657), (87, 44606), (131, 44459), (149, 44393), (153, 44369), (182, 44207), (188, 44189), (191, 44174), (192, 44171), (204, 44144), (221, 44081), (222, 44072), (235, 43985), (240, 43961), (251, 43919), (252, 43916), (254, 43898), (263, 43868), (268, 43841), (273, 43808), (277, 43787), (278, 43778), (281, 43733), (282, 43727), (283, 43718), (285, 43697), (289, 43664), (310, 43625), (324, 43559), (325, 43556), (345, 43487), (348, 43469),

Gene: Giraffe_51 Start: 44961, Stop: 43558, Start Num: 74

Candidate Starts for Giraffe_51:

(36, 45126), (Start: 74 @44961 has 212 MA's), (Start: 76 @44958 has 65 MA's), (Start: 77 @44952 has 1 MA's), (84, 44910), (97, 44838), (Start: 105 @44817 has 5 MA's), (Start: 135 @44721 has 1 MA's), (149, 44670), (161, 44604), (162, 44601), (167, 44550), (182, 44484), (186, 44472), (196, 44436), (213, 44391), (220, 44361), (227, 44322), (232, 44283), (236, 44250), (237, 44247), (242, 44223), (251, 44190), (254, 44169), (263, 44139), (279, 44025), (283, 43983), (285, 43962), (289, 43929), (307, 43857), (310, 43851), (320, 43803), (331, 43758), (338, 43734), (343, 43719), (348, 43695),

Gene: Glass_50 Start: 44973, Stop: 43606, Start Num: 76

Candidate Starts for Glass_50:

(Start: 76 @44973 has 65 MA's), (86, 44910), (88, 44895), (117, 44784), (134, 44733), (148, 44685), (156, 44637), (179, 44496), (182, 44487), (205, 44442), (207, 44436), (208, 44430), (213, 44418), (232, 44313), (236, 44280), (240, 44262), (242, 44253), (251, 44220), (256, 44193), (263, 44169), (268, 44142), (271, 44115), (280, 44040), (285, 43995), (289, 43962), (297, 43941), (305, 43935), (315, 43902), (318, 43884), (361, 43722), (364, 43704), (372, 43647),

Gene: GlenHope_50 Start: 44877, Stop: 43255, Start Num: 32

Candidate Starts for GlenHope_50:

(14, 44994), (16, 44988), (19, 44973), (Start: 32 @44877 has 9 MA's), (Start: 34 @44868 has 41 MA's), (49, 44772), (Start: 72 @44694 has 8 MA's), (98, 44559), (Start: 135 @44400 has 1 MA's), (141, 44385), (143, 44373), (149, 44343), (158, 44301), (167, 44223), (203, 44091), (210, 44058), (213, 44049), (231, 43956), (237, 43908), (240, 43893), (242, 43884), (251, 43851), (256, 43824), (263, 43800), (278, 43710), (289, 43599), (307, 43566), (308, 43563), (311, 43548), (317, 43527), (324, 43494),

Gene: Glubnar_49 Start: 44877, Stop: 43255, Start Num: 32

Candidate Starts for Glubnar_49:

(14, 44994), (16, 44988), (19, 44973), (Start: 32 @44877 has 9 MA's), (Start: 34 @44868 has 41 MA's), (49, 44772), (Start: 72 @44694 has 8 MA's), (98, 44559), (Start: 135 @44400 has 1 MA's), (141, 44385), (143, 44373), (149, 44343), (158, 44301), (167, 44223), (203, 44091), (210, 44058), (213, 44049), (231, 43956), (237, 43908), (240, 43893), (242, 43884), (251, 43851), (256, 43824), (263, 43800), (278, 43710), (289, 43599), (307, 43566), (311, 43548), (317, 43527), (324, 43494),

Gene: Godines_50 Start: 44925, Stop: 43558, Start Num: 76

Candidate Starts for Godines_50:

(Start: 76 @44925 has 65 MA's), (86, 44862), (88, 44847), (117, 44736), (134, 44685), (148, 44637), (156, 44589), (176, 44454), (179, 44448), (182, 44439), (205, 44394), (207, 44388), (208, 44382), (213, 44370), (232, 44265), (236, 44232), (240, 44214), (242, 44205), (251, 44172), (256, 44145), (263, 44121), (268, 44094), (271, 44067), (280, 43992), (285, 43947), (289, 43914), (297, 43893), (305, 43887), (315, 43854), (318, 43836), (361, 43674), (364, 43656), (372, 43599),

Gene: Gophee_51 Start: 45235, Stop: 43832, Start Num: 74

Candidate Starts for Gophee_51:

(36, 45400), (Start: 74 @45235 has 212 MA's), (Start: 76 @45232 has 65 MA's), (Start: 77 @45226 has 1 MA's), (84, 45184), (97, 45112), (Start: 105 @45091 has 5 MA's), (Start: 135 @44995 has 1 MA's), (149, 44944), (161, 44878), (162, 44875), (167, 44824), (182, 44758), (186, 44746), (196, 44710), (213, 44665), (220, 44635), (227, 44596), (232, 44557), (236, 44524), (237, 44521), (239, 44515), (242, 44497), (251, 44464), (254, 44443), (263, 44413), (279, 44299), (283, 44257), (285, 44236), (289, 44203), (307, 44131), (310, 44125), (320, 44077), (331, 44032), (338, 44008), (343, 43993), (348, 43969),

Gene: Grand2040_50 Start: 44955, Stop: 43552, Start Num: 74

Candidate Starts for Grand2040_50:

(10, 45333), (12, 45288), (18, 45246), (26, 45165), (36, 45120), (Start: 74 @44955 has 212 MA's), (Start: 76 @44952 has 65 MA's), (Start: 77 @44946 has 1 MA's), (84, 44904), (97, 44832), (Start: 105 @44811 has 5 MA's), (Start: 135 @44715 has 1 MA's), (149, 44664), (161, 44598), (162, 44595), (167, 44544), (182, 44478), (186, 44466), (196, 44430), (213, 44385), (220, 44355), (227, 44316), (232, 44277), (236, 44244), (237, 44241), (242, 44217), (251, 44184), (254, 44163), (263, 44133), (279, 44019), (283, 43977), (285, 43956), (289, 43923), (307, 43851), (310, 43845), (320, 43797), (331, 43752), (338, 43728), (343, 43713), (348, 43689),

Gene: Gustav_32 Start: 25299, Stop: 24172, Start Num: 133

Candidate Starts for Gustav_32:

(20, 25836), (21, 25827), (35, 25743), (53, 25629), (106, 25392), (Start: 133 @25299 has 4 MA's), (163, 25158), (175, 25065), (178, 25056), (234, 24885), (246, 24831), (248, 24825), (261, 24759), (269, 24723), (286, 24585), (289, 24555), (298, 24528), (305, 24480), (312, 24453), (314, 24447), (319, 24420), (328, 24387), (370, 24207),

Gene: Gwennie1_51 Start: 45301, Stop: 43898, Start Num: 74

Candidate Starts for Gwennie1_51:

(36, 45466), (Start: 74 @45301 has 212 MA's), (Start: 76 @45298 has 65 MA's), (Start: 77 @45292 has 1 MA's), (84, 45250), (97, 45178), (Start: 105 @45157 has 5 MA's), (Start: 135 @45061 has 1 MA's), (149, 45010), (161, 44944), (162, 44941), (167, 44890), (182, 44824), (186, 44812), (196, 44776), (213, 44731), (220, 44701), (227, 44662), (232, 44623), (236, 44590), (237, 44587), (239, 44581), (242, 44563), (251, 44530), (254, 44509), (263, 44479), (279, 44365), (283, 44323), (285, 44302), (289, 44269), (307, 44197), (310, 44191), (320, 44143), (331, 44098), (338, 44074), (343, 44059), (348, 44035),

Gene: Gwilliam_52 Start: 45241, Stop: 43838, Start Num: 74

Candidate Starts for Gwilliam_52:

(36, 45406), (Start: 74 @45241 has 212 MA's), (Start: 76 @45238 has 65 MA's), (Start: 77 @45232 has 1 MA's), (84, 45190), (97, 45118), (Start: 105 @45097 has 5 MA's), (Start: 135 @45001 has 1 MA's), (149, 44950), (161, 44884), (162, 44881), (165, 44857), (167, 44830), (182, 44764), (186, 44752), (196, 44716), (213, 44671), (220, 44641), (227, 44602), (232, 44563), (236, 44530), (237, 44527), (242, 44503), (251, 44470), (254, 44449), (263, 44419), (279, 44305), (283, 44263), (285, 44242), (289, 44209), (307, 44137), (310, 44131), (320, 44083), (331, 44038), (338, 44014), (343, 43999), (348, 43975),

Gene: Gyarad_0051 Start: 45255, Stop: 43852, Start Num: 74

Candidate Starts for Gyarad_0051:

(10, 45633), (12, 45588), (18, 45546), (26, 45465), (36, 45420), (Start: 74 @45255 has 212 MA's), (Start: 76 @45252 has 65 MA's), (Start: 77 @45246 has 1 MA's), (84, 45204), (97, 45132), (Start: 105 @45111 has 5 MA's), (Start: 135 @45015 has 1 MA's), (149, 44964), (161, 44898), (162, 44895), (165, 44871), (167, 44844), (182, 44778), (186, 44766), (196, 44730), (213, 44685), (220, 44655), (227, 44616), (232, 44577), (236, 44544), (237, 44541), (242, 44517), (251, 44484), (254, 44463), (263, 44433), (279, 44319), (283, 44277), (285, 44256), (289, 44223), (307, 44151), (310, 44145), (320, 44097), (331, 44052), (338, 44028), (343, 44013), (348, 43989),

Gene: HSavage_51 Start: 45247, Stop: 43844, Start Num: 74

Candidate Starts for HSavage_51:

(36, 45412), (Start: 74 @45247 has 212 MA's), (Start: 76 @45244 has 65 MA's), (Start: 77 @45238 has 1 MA's), (84, 45196), (97, 45124), (Start: 105 @45103 has 5 MA's), (Start: 135 @45007 has 1 MA's), (149, 44956), (161, 44890), (162, 44887), (167, 44836), (182, 44770), (186, 44758), (196, 44722), (213, 44677), (220, 44647), (227, 44608), (232, 44569), (236, 44536), (237, 44533), (242, 44509), (251, 44476), (254, 44455), (263, 44425), (279, 44311), (283, 44269), (285, 44248), (289, 44215), (307, 44143), (310, 44137), (320, 44089), (331, 44044), (338, 44020), (343, 44005), (348, 43981),

Gene: Haimas_51 Start: 45241, Stop: 43838, Start Num: 74

Candidate Starts for Haimas_51:

(36, 45406), (Start: 74 @45241 has 212 MA's), (Start: 76 @45238 has 65 MA's), (Start: 77 @45232 has 1 MA's), (84, 45190), (97, 45118), (Start: 105 @45097 has 5 MA's), (Start: 135 @45001 has 1 MA's), (149, 44950), (161, 44884), (162, 44881), (167, 44830), (182, 44764), (186, 44752), (196, 44716), (213, 44671), (220, 44641), (227, 44602), (232, 44563), (236, 44530), (237, 44527), (242, 44503), (251, 44470), (254, 44449), (263, 44419), (279, 44305), (283, 44263), (285, 44242), (289, 44209), (307, 44137), (310, 44131), (320, 44083), (331, 44038), (338, 44014), (343, 43999), (348, 43975),

Gene: Haleema_50 Start: 44955, Stop: 43552, Start Num: 74

Candidate Starts for Haleema_50:

(10, 45333), (12, 45288), (18, 45246), (26, 45165), (36, 45120), (Start: 74 @44955 has 212 MA's), (Start: 76 @44952 has 65 MA's), (Start: 77 @44946 has 1 MA's), (84, 44904), (97, 44832), (Start: 105 @44811 has 5 MA's), (Start: 135 @44715 has 1 MA's), (149, 44664), (161, 44598), (162, 44595), (167, 44544), (182, 44478), (186, 44466), (196, 44430), (213, 44385), (220, 44355), (227, 44316), (232, 44277), (236, 44244), (237, 44241), (242, 44217), (251, 44184), (254, 44163), (263, 44133), (279, 44019), (283, 43977), (285, 43956), (289, 43923), (307, 43851), (310, 43845), (320, 43797), (331, 43752), (338, 43728), (343, 43713), (348, 43689),

Gene: Halfpint_48 Start: 44693, Stop: 43080, Start Num: 34

Candidate Starts for Halfpint_48:

(14, 44819), (16, 44813), (19, 44798), (Start: 32 @44702 has 9 MA's), (Start: 34 @44693 has 41 MA's), (49, 44597), (Start: 72 @44519 has 8 MA's), (98, 44384), (Start: 135 @44225 has 1 MA's), (141, 44210), (143, 44198), (149, 44168), (158, 44126), (167, 44048), (203, 43916), (210, 43883), (213, 43874), (231, 43781), (237, 43733), (240, 43718), (242, 43709), (251, 43676), (256, 43649), (263, 43625), (278, 43535), (289, 43424), (307, 43391), (308, 43388), (311, 43373), (317, 43352), (324, 43319),

Gene: Hally898_45 Start: 44684, Stop: 43344, Start Num: 73

Candidate Starts for Hally898_45:

(Start: 70 @44687 has 9 MA's), (Start: 73 @44684 has 15 MA's), (Start: 77 @44675 has 1 MA's), (78, 44669), (87, 44618), (131, 44471), (149, 44405), (153, 44381), (182, 44219), (188, 44201), (191,

44186), (192, 44183), (204, 44156), (221, 44093), (222, 44084), (235, 43997), (240, 43973), (251, 43931), (252, 43928), (254, 43910), (263, 43880), (268, 43853), (273, 43820), (277, 43799), (278, 43790), (281, 43745), (282, 43739), (283, 43730), (285, 43709), (289, 43676), (310, 43637), (324, 43571), (325, 43568), (345, 43499), (348, 43481),

Gene: Hamish_51 Start: 45234, Stop: 43831, Start Num: 74

Candidate Starts for Hamish_51:

(36, 45399), (Start: 74 @45234 has 212 MA's), (Start: 76 @45231 has 65 MA's), (Start: 77 @45225 has 1 MA's), (84, 45183), (97, 45111), (Start: 105 @45090 has 5 MA's), (Start: 135 @44994 has 1 MA's), (149, 44943), (161, 44877), (162, 44874), (167, 44823), (182, 44757), (186, 44745), (196, 44709), (213, 44664), (220, 44634), (227, 44595), (232, 44556), (236, 44523), (237, 44520), (242, 44496), (251, 44463), (254, 44442), (263, 44412), (279, 44298), (283, 44256), (285, 44235), (289, 44202), (307, 44130), (310, 44124), (320, 44076), (331, 44031), (338, 44007), (343, 43992), (348, 43968),

Gene: Hangman_46 Start: 45811, Stop: 44468, Start Num: 70

Candidate Starts for Hangman_46:

(Start: 70 @45811 has 9 MA's), (Start: 73 @45808 has 15 MA's), (Start: 77 @45799 has 1 MA's), (78, 45793), (87, 45742), (131, 45595), (144, 45550), (149, 45529), (171, 45388), (175, 45364), (182, 45343), (183, 45340), (188, 45325), (191, 45310), (218, 45241), (222, 45208), (228, 45184), (240, 45097), (242, 45088), (251, 45055), (252, 45052), (254, 45034), (263, 45004), (273, 44944), (276, 44926), (278, 44914), (281, 44869), (282, 44863), (283, 44854), (285, 44833), (288, 44824), (289, 44800), (310, 44761), (324, 44695), (325, 44692), (345, 44623), (348, 44605),

Gene: Hartsy_51 Start: 45284, Stop: 43881, Start Num: 74

Candidate Starts for Hartsy_51:

(36, 45449), (Start: 74 @45284 has 212 MA's), (Start: 76 @45281 has 65 MA's), (Start: 77 @45275 has 1 MA's), (84, 45233), (97, 45161), (Start: 105 @45140 has 5 MA's), (Start: 135 @45044 has 1 MA's), (149, 44993), (161, 44927), (162, 44924), (165, 44900), (167, 44873), (182, 44807), (186, 44795), (196, 44759), (213, 44714), (220, 44684), (227, 44645), (232, 44606), (236, 44573), (237, 44570), (242, 44546), (251, 44513), (254, 44492), (263, 44462), (279, 44348), (283, 44306), (285, 44285), (289, 44252), (307, 44180), (310, 44174), (320, 44126), (331, 44081), (338, 44057), (343, 44042), (348, 44018),

Gene: Harvey_51 Start: 45271, Stop: 43868, Start Num: 74

Candidate Starts for Harvey_51:

(36, 45436), (Start: 74 @45271 has 212 MA's), (Start: 76 @45268 has 65 MA's), (Start: 77 @45262 has 1 MA's), (84, 45220), (97, 45148), (Start: 105 @45127 has 5 MA's), (Start: 135 @45031 has 1 MA's), (149, 44980), (161, 44914), (162, 44911), (167, 44860), (182, 44794), (186, 44782), (196, 44746), (213, 44701), (220, 44671), (227, 44632), (232, 44593), (236, 44560), (237, 44557), (242, 44533), (251, 44500), (254, 44479), (263, 44449), (279, 44335), (283, 44293), (285, 44272), (289, 44239), (307, 44167), (310, 44161), (320, 44113), (331, 44068), (338, 44044), (343, 44029), (348, 44005),

Gene: HarveySr_49 Start: 44861, Stop: 43248, Start Num: 34

Candidate Starts for HarveySr_49:

(14, 44987), (16, 44981), (19, 44966), (Start: 32 @44870 has 9 MA's), (Start: 34 @44861 has 41 MA's), (49, 44765), (Start: 72 @44687 has 8 MA's), (98, 44552), (Start: 135 @44393 has 1 MA's), (141, 44378), (143, 44366), (149, 44336), (158, 44294), (167, 44216), (181, 44150), (182, 44147), (203, 44084), (210, 44051), (213, 44042), (231, 43949), (237, 43901), (238, 43898), (240, 43886), (242, 43877), (256, 43817), (263, 43793), (278, 43703), (289, 43592), (307, 43559), (308, 43556), (311, 43541), (317, 43520), (324, 43487),

Gene: Hashim76_53 Start: 45064, Stop: 43547, Start Num: 40

Candidate Starts for Hashim76_53:

(Start: 40 @45064 has 2 MA's), (69, 44938), (89, 44836), (92, 44812), (136, 44674), (149, 44626), (167, 44506), (169, 44497), (182, 44440), (198, 44386), (200, 44383), (227, 44278), (228, 44275), (237, 44203), (240, 44188), (242, 44179), (255, 44122), (273, 44029), (285, 43912), (289, 43879), (290, 43870), (305, 43852), (310, 43840), (328, 43762), (338, 43723), (374, 43555),

Gene: Heath_45 Start: 45316, Stop: 43976, Start Num: 73

Candidate Starts for Heath_45:

(Start: 70 @45319 has 9 MA's), (Start: 73 @45316 has 15 MA's), (Start: 77 @45307 has 1 MA's), (78, 45301), (87, 45250), (131, 45103), (144, 45058), (149, 45037), (171, 44896), (175, 44872), (182, 44851), (183, 44848), (188, 44833), (191, 44818), (218, 44749), (222, 44716), (228, 44692), (237, 44620), (240, 44605), (242, 44596), (251, 44563), (252, 44560), (254, 44542), (263, 44512), (273, 44452), (276, 44434), (278, 44422), (280, 44389), (281, 44377), (282, 44371), (283, 44362), (285, 44341), (288, 44332), (289, 44308), (310, 44269), (319, 44224), (324, 44203), (325, 44200), (345, 44131), (348, 44113),

Gene: Heathcliff_49 Start: 44839, Stop: 43226, Start Num: 34

Candidate Starts for Heathcliff_49:

(14, 44965), (16, 44959), (19, 44944), (Start: 32 @44848 has 9 MA's), (Start: 34 @44839 has 41 MA's), (49, 44743), (Start: 72 @44665 has 8 MA's), (98, 44530), (Start: 135 @44371 has 1 MA's), (141, 44356), (143, 44344), (149, 44314), (158, 44272), (167, 44194), (181, 44128), (182, 44125), (203, 44062), (210, 44029), (213, 44020), (231, 43927), (237, 43879), (238, 43876), (240, 43864), (242, 43855), (256, 43795), (263, 43771), (278, 43681), (289, 43570), (307, 43537), (308, 43534), (311, 43519), (317, 43498), (324, 43465),

Gene: Hedgerow_50 Start: 44982, Stop: 43615, Start Num: 76

Candidate Starts for Hedgerow_50:

(Start: 76 @44982 has 65 MA's), (86, 44919), (88, 44904), (117, 44793), (134, 44742), (148, 44694), (156, 44646), (179, 44505), (182, 44496), (205, 44451), (207, 44445), (208, 44439), (213, 44427), (232, 44322), (236, 44289), (240, 44271), (242, 44262), (251, 44229), (256, 44202), (263, 44178), (268, 44151), (271, 44124), (280, 44049), (285, 44004), (289, 43971), (297, 43950), (305, 43944), (315, 43911), (316, 43902), (318, 43893), (361, 43731), (364, 43713), (372, 43656),

Gene: Held_51 Start: 44960, Stop: 43557, Start Num: 74

Candidate Starts for Held_51:

(10, 45338), (12, 45293), (18, 45251), (26, 45170), (36, 45125), (Start: 74 @44960 has 212 MA's), (Start: 76 @44957 has 65 MA's), (Start: 77 @44951 has 1 MA's), (84, 44909), (97, 44837), (Start: 105 @44816 has 5 MA's), (Start: 135 @44720 has 1 MA's), (149, 44669), (161, 44603), (162, 44600), (167, 44549), (182, 44483), (186, 44471), (196, 44435), (213, 44390), (220, 44360), (227, 44321), (232, 44282), (236, 44249), (237, 44246), (242, 44222), (251, 44189), (254, 44168), (263, 44138), (279, 44024), (283, 43982), (285, 43961), (289, 43928), (307, 43856), (310, 43850), (320, 43802), (331, 43757), (338, 43733), (343, 43718), (348, 43694),

Gene: HenryJackson_50 Start: 44952, Stop: 43552, Start Num: 76

Candidate Starts for HenryJackson_50:

(36, 45120), (Start: 74 @44955 has 212 MA's), (Start: 76 @44952 has 65 MA's), (Start: 77 @44946 has 1 MA's), (84, 44904), (97, 44832), (Start: 105 @44811 has 5 MA's), (Start: 135 @44715 has 1 MA's), (149, 44664), (161, 44598), (162, 44595), (165, 44571), (167, 44544), (182, 44478), (186, 44466), (196, 44430), (213, 44385), (220, 44355), (227, 44316), (232, 44277), (236, 44244), (237, 44241), (242, 44217), (251, 44184), (254, 44163), (263, 44133), (279, 44019), (283, 43977), (285, 43956), (289, 43923), (307, 43851), (310, 43845), (320, 43797), (331, 43752), (338, 43728), (343, 43713), (348, 43689),

Gene: Hertubise_51 Start: 45255, Stop: 43852, Start Num: 74

Candidate Starts for Hertubise_51:

(36, 45420), (Start: 74 @45255 has 212 MA's), (Start: 76 @45252 has 65 MA's), (Start: 77 @45246 has 1 MA's), (84, 45204), (97, 45132), (Start: 105 @45111 has 5 MA's), (Start: 135 @45015 has 1 MA's), (149, 44964), (161, 44898), (162, 44895), (167, 44844), (182, 44778), (186, 44766), (196, 44730), (213, 44685), (220, 44655), (227, 44616), (232, 44577), (236, 44544), (237, 44541), (242, 44517), (251, 44484), (254, 44463), (263, 44433), (279, 44319), (283, 44277), (285, 44256), (289, 44223), (307, 44151), (310, 44145), (320, 44097), (331, 44052), (338, 44028), (343, 44013), (348, 43989),

Gene: Hetaeria_51 Start: 45272, Stop: 43869, Start Num: 74

Candidate Starts for Hetaeria_51:

(10, 45650), (12, 45605), (18, 45563), (26, 45482), (36, 45437), (Start: 74 @45272 has 212 MA's), (Start: 76 @45269 has 65 MA's), (Start: 77 @45263 has 1 MA's), (84, 45221), (97, 45149), (Start: 105 @45128 has 5 MA's), (Start: 135 @45032 has 1 MA's), (149, 44981), (161, 44915), (162, 44912), (165, 44888), (167, 44861), (182, 44795), (186, 44783), (196, 44747), (213, 44702), (220, 44672), (227, 44633), (232, 44594), (236, 44561), (237, 44558), (242, 44534), (251, 44501), (254, 44480), (263, 44450), (279, 44336), (283, 44294), (285, 44273), (289, 44240), (307, 44168), (310, 44162), (320, 44114), (331, 44069), (338, 44045), (343, 44030), (348, 44006),

Gene: HighStump_51 Start: 45082, Stop: 43679, Start Num: 74

Candidate Starts for HighStump_51:

(36, 45247), (Start: 74 @45082 has 212 MA's), (Start: 76 @45079 has 65 MA's), (Start: 77 @45073 has 1 MA's), (84, 45031), (97, 44959), (Start: 105 @44938 has 5 MA's), (Start: 135 @44842 has 1 MA's), (149, 44791), (161, 44725), (162, 44722), (165, 44698), (167, 44671), (182, 44605), (186, 44593), (196, 44557), (213, 44512), (220, 44482), (227, 44443), (232, 44404), (236, 44371), (237, 44368), (242, 44344), (251, 44311), (254, 44290), (263, 44260), (279, 44146), (283, 44104), (285, 44083), (289, 44050), (307, 43978), (310, 43972), (320, 43924), (331, 43879), (338, 43855), (343, 43840), (348, 43816),

Gene: Hocus_50 Start: 44944, Stop: 43541, Start Num: 71

Candidate Starts for Hocus_50:

(36, 45106), (Start: 71 @44944 has 18 MA's), (Start: 76 @44941 has 65 MA's), (84, 44893), (97, 44821), (Start: 105 @44800 has 5 MA's), (Start: 135 @44704 has 1 MA's), (149, 44653), (161, 44587), (162, 44584), (165, 44560), (167, 44533), (182, 44467), (186, 44455), (196, 44419), (213, 44374), (220, 44344), (227, 44305), (232, 44266), (236, 44233), (237, 44230), (239, 44224), (242, 44206), (251, 44173), (254, 44152), (263, 44122), (279, 44008), (283, 43966), (285, 43945), (289, 43912), (307, 43840), (310, 43834), (320, 43786), (331, 43741), (338, 43717), (343, 43702), (348, 43678),

Gene: Holeinone_50 Start: 44833, Stop: 43466, Start Num: 76

Candidate Starts for Holeinone_50:

(Start: 76 @44833 has 65 MA's), (86, 44770), (88, 44755), (117, 44644), (134, 44593), (148, 44545), (156, 44497), (167, 44413), (176, 44362), (179, 44356), (182, 44347), (205, 44302), (207, 44296), (208, 44290), (213, 44278), (232, 44173), (236, 44140), (240, 44122), (242, 44113), (251, 44080), (256, 44053), (263, 44029), (268, 44002), (271, 43975), (280, 43900), (285, 43855), (289, 43822), (297, 43801), (305, 43795), (315, 43762), (318, 43744), (361, 43582), (364, 43564), (372, 43507),

Gene: Horchata_51 Start: 45247, Stop: 43844, Start Num: 74

Candidate Starts for Horchata_51:

(10, 45625), (12, 45580), (18, 45538), (26, 45457), (36, 45412), (Start: 74 @45247 has 212 MA's), (Start: 76 @45244 has 65 MA's), (Start: 77 @45238 has 1 MA's), (84, 45196), (97, 45124), (Start: 105 @45103 has 5 MA's), (Start: 135 @45007 has 1 MA's), (149, 44956), (161, 44890), (162, 44887), (167,

44836), (182, 44770), (186, 44758), (196, 44722), (213, 44677), (220, 44647), (227, 44608), (232, 44569), (236, 44536), (237, 44533), (242, 44509), (251, 44476), (254, 44455), (263, 44425), (279, 44311), (283, 44269), (285, 44248), (289, 44215), (307, 44143), (310, 44137), (320, 44089), (331, 44044), (338, 44020), (343, 44005), (348, 43981),

Gene: Hosp_042 Start: 41753, Stop: 40323, Start Num: 68

Candidate Starts for Hosp_042:

(45, 41819), (Start: 68 @41753 has 2 MA's), (Start: 77 @41735 has 1 MA's), (116, 41531), (122, 41513), (131, 41459), (140, 41432), (148, 41396), (149, 41384), (180, 41204), (182, 41198), (188, 41180), (191, 41165), (218, 41099), (224, 41057), (227, 41045), (228, 41042), (237, 40970), (239, 40964), (242, 40946), (255, 40889), (268, 40835), (272, 40805), (276, 40784), (283, 40712), (285, 40691), (289, 40658), (310, 40619), (319, 40574), (323, 40556), (325, 40550), (336, 40505), (338, 40502), (367, 40379),

Gene: Hydro_46 Start: 45744, Stop: 44404, Start Num: 73

Candidate Starts for Hydro_46:

(Start: 70 @45747 has 9 MA's), (Start: 73 @45744 has 15 MA's), (Start: 77 @45735 has 1 MA's), (78, 45729), (87, 45678), (131, 45531), (144, 45486), (149, 45465), (171, 45324), (175, 45300), (182, 45279), (183, 45276), (188, 45261), (191, 45246), (218, 45177), (220, 45162), (222, 45144), (228, 45120), (237, 45048), (240, 45033), (242, 45024), (251, 44991), (252, 44988), (254, 44970), (263, 44940), (273, 44880), (276, 44862), (278, 44850), (281, 44805), (282, 44799), (283, 44790), (288, 44760), (289, 44736), (310, 44697), (324, 44631), (325, 44628), (345, 44559), (348, 44541),

Gene: ImtiyazSitla_51 Start: 44930, Stop: 43527, Start Num: 74

Candidate Starts for ImtiyazSitla_51:

(36, 45095), (Start: 74 @44930 has 212 MA's), (Start: 76 @44927 has 65 MA's), (Start: 77 @44921 has 1 MA's), (84, 44879), (97, 44807), (Start: 105 @44786 has 5 MA's), (Start: 135 @44690 has 1 MA's), (149, 44639), (161, 44573), (162, 44570), (167, 44519), (182, 44453), (186, 44441), (196, 44405), (213, 44360), (220, 44330), (227, 44291), (232, 44252), (236, 44219), (237, 44216), (239, 44210), (242, 44192), (251, 44159), (254, 44138), (263, 44108), (279, 43994), (283, 43952), (285, 43931), (289, 43898), (307, 43826), (310, 43820), (320, 43772), (331, 43727), (338, 43703), (343, 43688), (348, 43664),

Gene: Imvubu_43 Start: 42496, Stop: 41111, Start Num: 75

Candidate Starts for Imvubu_43:

(51, 42553), (Start: 75 @42496 has 2 MA's), (84, 42448), (86, 42433), (119, 42310), (121, 42304), (Start: 135 @42229 has 1 MA's), (142, 42211), (158, 42139), (183, 41992), (220, 41887), (221, 41878), (224, 41860), (227, 41848), (228, 41845), (235, 41782), (237, 41773), (240, 41758), (243, 41746), (261, 41677), (263, 41665), (270, 41605), (276, 41575), (278, 41563), (280, 41530), (282, 41512), (285, 41482), (289, 41449), (325, 41341), (338, 41293), (345, 41272),

Gene: Inchworm_52 Start: 45368, Stop: 43965, Start Num: 74

Candidate Starts for Inchworm_52:

(36, 45533), (Start: 74 @45368 has 212 MA's), (Start: 76 @45365 has 65 MA's), (Start: 77 @45359 has 1 MA's), (84, 45317), (97, 45245), (Start: 105 @45224 has 5 MA's), (Start: 135 @45128 has 1 MA's), (149, 45077), (161, 45011), (162, 45008), (167, 44957), (182, 44891), (186, 44879), (196, 44843), (213, 44798), (220, 44768), (227, 44729), (232, 44690), (236, 44657), (237, 44654), (239, 44648), (242, 44630), (251, 44597), (254, 44576), (263, 44546), (279, 44432), (283, 44390), (285, 44369), (289, 44336), (307, 44264), (310, 44258), (320, 44210), (331, 44165), (338, 44141), (343, 44126), (348, 44102),

Gene: Indlovu_48 Start: 44932, Stop: 43562, Start Num: 74

Candidate Starts for Indlovu_48:

(Start: 74 @44932 has 212 MA's), (101, 44788), (127, 44707), (Start: 135 @44677 has 1 MA's), (149, 44620), (156, 44584), (180, 44440), (188, 44416), (191, 44401), (214, 44344), (218, 44335), (220, 44320), (222, 44302), (228, 44278), (234, 44221), (240, 44191), (243, 44179), (244, 44176), (251, 44149), (255, 44125), (256, 44122), (263, 44098), (268, 44071), (276, 44020), (279, 43990), (281, 43963), (289, 43894), (305, 43867), (324, 43789), (338, 43738), (345, 43717), (364, 43636), (367, 43615), (374, 43570),

Gene: Inverness_51 Start: 45256, Stop: 43853, Start Num: 74

Candidate Starts for Inverness_51:

(10, 45634), (12, 45589), (18, 45547), (26, 45466), (36, 45421), (Start: 74 @45256 has 212 MA's), (Start: 76 @45253 has 65 MA's), (Start: 77 @45247 has 1 MA's), (84, 45205), (97, 45133), (Start: 105 @45112 has 5 MA's), (Start: 135 @45016 has 1 MA's), (149, 44965), (161, 44899), (162, 44896), (165, 44872), (167, 44845), (182, 44779), (186, 44767), (196, 44731), (213, 44686), (220, 44656), (227, 44617), (232, 44578), (236, 44545), (237, 44542), (242, 44518), (251, 44485), (254, 44464), (263, 44434), (283, 44278), (285, 44257), (289, 44224), (307, 44152), (310, 44146), (320, 44098), (331, 44053), (338, 44029), (343, 44014), (348, 43990),

Gene: Iridessa_52 Start: 44940, Stop: 43537, Start Num: 74

Candidate Starts for Iridessa_52:

(36, 45105), (Start: 74 @44940 has 212 MA's), (Start: 76 @44937 has 65 MA's), (Start: 77 @44931 has 1 MA's), (84, 44889), (97, 44817), (Start: 105 @44796 has 5 MA's), (Start: 135 @44700 has 1 MA's), (149, 44649), (161, 44583), (162, 44580), (165, 44556), (167, 44529), (182, 44463), (186, 44451), (196, 44415), (213, 44370), (220, 44340), (227, 44301), (232, 44262), (236, 44229), (237, 44226), (242, 44202), (251, 44169), (254, 44148), (263, 44118), (279, 44004), (283, 43962), (285, 43941), (289, 43908), (307, 43836), (310, 43830), (320, 43782), (331, 43737), (338, 43713), (343, 43698), (348, 43674),

Gene: Iridoclysis_51 Start: 45227, Stop: 43824, Start Num: 74

Candidate Starts for Iridoclysis_51:

(36, 45392), (Start: 74 @45227 has 212 MA's), (Start: 76 @45224 has 65 MA's), (Start: 77 @45218 has 1 MA's), (84, 45176), (97, 45104), (Start: 105 @45083 has 5 MA's), (Start: 135 @44987 has 1 MA's), (149, 44936), (161, 44870), (162, 44867), (167, 44816), (182, 44750), (186, 44738), (196, 44702), (213, 44657), (220, 44627), (227, 44588), (232, 44549), (236, 44516), (237, 44513), (242, 44489), (251, 44456), (254, 44435), (263, 44405), (279, 44291), (283, 44249), (285, 44228), (289, 44195), (307, 44123), (310, 44117), (320, 44069), (331, 44024), (338, 44000), (343, 43985), (348, 43961),

Gene: IsaacEli_52 Start: 45386, Stop: 43983, Start Num: 74

Candidate Starts for IsaacEli_52:

(10, 45764), (12, 45719), (18, 45677), (26, 45596), (36, 45551), (Start: 74 @45386 has 212 MA's), (Start: 76 @45383 has 65 MA's), (Start: 77 @45377 has 1 MA's), (84, 45335), (97, 45263), (Start: 105 @45242 has 5 MA's), (Start: 135 @45146 has 1 MA's), (149, 45095), (161, 45029), (162, 45026), (167, 44975), (182, 44909), (186, 44897), (196, 44861), (213, 44816), (220, 44786), (227, 44747), (232, 44708), (236, 44675), (237, 44672), (242, 44648), (251, 44615), (254, 44594), (263, 44564), (279, 44450), (283, 44408), (285, 44387), (289, 44354), (307, 44282), (310, 44276), (320, 44228), (331, 44183), (338, 44159), (343, 44144), (348, 44120),

Gene: ItsyBitsy1_50 Start: 44850, Stop: 43483, Start Num: 76

Candidate Starts for ItsyBitsy1_50:

(Start: 76 @44850 has 65 MA's), (86, 44787), (88, 44772), (117, 44661), (134, 44610), (148, 44562), (156, 44514), (176, 44379), (179, 44373), (182, 44364), (205, 44319), (207, 44313), (208, 44307), (213, 44295), (232, 44190), (236, 44157), (242, 44130), (251, 44097), (256, 44070), (263, 44046), (268, 44019), (271, 43992), (280, 43917), (285, 43872), (289, 43839), (297, 43818), (305, 43812),

(315, 43779), (316, 43770), (318, 43761), (361, 43599), (364, 43581), (372, 43524),

Gene: JAMaL_46 Start: 45881, Stop: 44538, Start Num: 70

Candidate Starts for JAMaL_46:

(Start: 70 @45881 has 9 MA's), (Start: 73 @45878 has 15 MA's), (Start: 77 @45869 has 1 MA's), (78, 45863), (87, 45812), (131, 45665), (144, 45620), (149, 45599), (151, 45587), (171, 45458), (175, 45434), (182, 45413), (183, 45410), (188, 45395), (191, 45380), (218, 45311), (220, 45296), (222, 45278), (228, 45254), (240, 45167), (242, 45158), (251, 45125), (252, 45122), (254, 45104), (263, 45074), (273, 45014), (276, 44996), (278, 44984), (281, 44939), (282, 44933), (283, 44924), (285, 44903), (288, 44894), (289, 44870), (310, 44831), (324, 44765), (325, 44762), (345, 44693), (348, 44675),

Gene: JDog_50 Start: 44964, Stop: 43561, Start Num: 71

Candidate Starts for JDog_50:

(36, 45126), (Start: 71 @44964 has 18 MA's), (Start: 76 @44961 has 65 MA's), (84, 44913), (97, 44841), (Start: 105 @44820 has 5 MA's), (Start: 135 @44724 has 1 MA's), (149, 44673), (161, 44607), (162, 44604), (165, 44580), (167, 44553), (182, 44487), (186, 44475), (196, 44439), (213, 44394), (220, 44364), (227, 44325), (232, 44286), (236, 44253), (237, 44250), (239, 44244), (242, 44226), (251, 44193), (254, 44172), (263, 44142), (279, 44028), (283, 43986), (285, 43965), (289, 43932), (307, 43860), (310, 43854), (320, 43806), (331, 43761), (338, 43737), (343, 43722), (348, 43698),

Gene: JacAttac_52 Start: 45368, Stop: 43965, Start Num: 74

Candidate Starts for JacAttac_52:

(10, 45746), (12, 45701), (18, 45659), (26, 45578), (36, 45533), (Start: 74 @45368 has 212 MA's), (Start: 76 @45365 has 65 MA's), (Start: 77 @45359 has 1 MA's), (84, 45317), (97, 45245), (Start: 105 @45224 has 5 MA's), (Start: 135 @45128 has 1 MA's), (149, 45077), (161, 45011), (162, 45008), (167, 44957), (182, 44891), (186, 44879), (196, 44843), (213, 44798), (220, 44768), (227, 44729), (232, 44690), (236, 44657), (237, 44654), (242, 44630), (251, 44597), (254, 44576), (263, 44546), (279, 44432), (283, 44390), (285, 44369), (289, 44336), (307, 44264), (310, 44258), (320, 44210), (331, 44165), (338, 44141), (343, 44126), (348, 44102),

Gene: Jackstina_46 Start: 44798, Stop: 43185, Start Num: 34

Candidate Starts for Jackstina_46:

(14, 44924), (16, 44918), (19, 44903), (Start: 32 @44807 has 9 MA's), (Start: 34 @44798 has 41 MA's), (49, 44702), (Start: 72 @44624 has 8 MA's), (98, 44489), (Start: 135 @44330 has 1 MA's), (141, 44315), (143, 44303), (149, 44273), (158, 44231), (167, 44153), (203, 44021), (210, 43988), (213, 43979), (231, 43886), (237, 43838), (240, 43823), (242, 43814), (251, 43781), (256, 43754), (263, 43730), (278, 43640), (289, 43529), (307, 43496), (308, 43493), (311, 43478), (317, 43457), (324, 43424),

Gene: JaguarMi_46 Start: 45187, Stop: 43847, Start Num: 73

Candidate Starts for JaguarMi_46:

(Start: 73 @45187 has 15 MA's), (Start: 77 @45178 has 1 MA's), (78, 45172), (131, 44974), (144, 44929), (149, 44908), (171, 44767), (175, 44743), (182, 44722), (183, 44719), (188, 44704), (191, 44689), (218, 44620), (222, 44587), (228, 44563), (237, 44491), (240, 44476), (242, 44467), (246, 44452), (251, 44434), (252, 44431), (254, 44413), (263, 44383), (273, 44323), (276, 44305), (278, 44293), (281, 44248), (282, 44242), (283, 44233), (285, 44212), (288, 44203), (289, 44179), (310, 44140), (324, 44074), (325, 44071), (345, 44002), (348, 43984),

Gene: JakeO_50 Start: 44963, Stop: 43560, Start Num: 71

Candidate Starts for JakeO_50:

(36, 45125), (Start: 71 @44963 has 18 MA's), (Start: 76 @44960 has 65 MA's), (84, 44912), (97, 44840), (Start: 105 @44819 has 5 MA's), (Start: 135 @44723 has 1 MA's), (149, 44672), (161, 44606),

(162, 44603), (165, 44579), (167, 44552), (182, 44486), (186, 44474), (196, 44438), (213, 44393), (220, 44363), (227, 44324), (232, 44285), (236, 44252), (237, 44249), (239, 44243), (242, 44225), (251, 44192), (254, 44171), (263, 44141), (279, 44027), (283, 43985), (285, 43964), (289, 43931), (307, 43859), (310, 43853), (320, 43805), (331, 43760), (338, 43736), (343, 43721), (348, 43697),

Gene: JangoPhett_51 Start: 45238, Stop: 43835, Start Num: 74

Candidate Starts for JangoPhett_51:

(10, 45616), (12, 45571), (18, 45529), (26, 45448), (36, 45403), (Start: 74 @45238 has 212 MA's), (Start: 76 @45235 has 65 MA's), (Start: 77 @45229 has 1 MA's), (84, 45187), (97, 45115), (Start: 105 @45094 has 5 MA's), (Start: 135 @44998 has 1 MA's), (149, 44947), (161, 44881), (162, 44878), (167, 44827), (182, 44761), (186, 44749), (196, 44713), (213, 44668), (220, 44638), (227, 44599), (232, 44560), (236, 44527), (237, 44524), (242, 44500), (251, 44467), (254, 44446), (263, 44416), (279, 44302), (283, 44260), (285, 44239), (289, 44206), (307, 44134), (310, 44128), (320, 44080), (331, 44035), (338, 44011), (343, 43996), (348, 43972),

Gene: Jesabah_51 Start: 44966, Stop: 43563, Start Num: 74

Candidate Starts for Jesabah_51:

(10, 45344), (12, 45299), (18, 45257), (26, 45176), (36, 45131), (Start: 74 @44966 has 212 MA's), (Start: 76 @44963 has 65 MA's), (Start: 77 @44957 has 1 MA's), (84, 44915), (97, 44843), (Start: 105 @44822 has 5 MA's), (Start: 135 @44726 has 1 MA's), (149, 44675), (161, 44609), (162, 44606), (167, 44555), (182, 44489), (186, 44477), (196, 44441), (213, 44396), (220, 44366), (227, 44327), (232, 44288), (236, 44255), (237, 44252), (242, 44228), (251, 44195), (254, 44174), (263, 44144), (279, 44030), (283, 43988), (285, 43967), (289, 43934), (307, 43862), (310, 43856), (320, 43808), (331, 43763), (338, 43739), (343, 43724), (348, 43700),

Gene: Jillium_50 Start: 44957, Stop: 43554, Start Num: 74

Candidate Starts for Jillium_50:

(10, 45335), (12, 45290), (18, 45248), (26, 45167), (36, 45122), (Start: 74 @44957 has 212 MA's), (Start: 76 @44954 has 65 MA's), (Start: 77 @44948 has 1 MA's), (84, 44906), (97, 44834), (Start: 105 @44813 has 5 MA's), (Start: 135 @44717 has 1 MA's), (149, 44666), (161, 44600), (162, 44597), (167, 44546), (182, 44480), (186, 44468), (196, 44432), (213, 44387), (220, 44357), (227, 44318), (232, 44279), (236, 44246), (237, 44243), (242, 44219), (251, 44186), (254, 44165), (263, 44135), (279, 44021), (283, 43979), (285, 43958), (289, 43925), (307, 43853), (310, 43847), (320, 43799), (331, 43754), (338, 43730), (343, 43715), (348, 43691),

Gene: Jiminy_50 Start: 44798, Stop: 43395, Start Num: 71

Candidate Starts for Jiminy_50:

(36, 44960), (Start: 71 @44798 has 18 MA's), (Start: 76 @44795 has 65 MA's), (84, 44747), (97, 44675), (Start: 105 @44654 has 5 MA's), (Start: 135 @44558 has 1 MA's), (149, 44507), (161, 44441), (162, 44438), (165, 44414), (167, 44387), (182, 44321), (186, 44309), (196, 44273), (213, 44228), (220, 44198), (227, 44159), (232, 44120), (236, 44087), (237, 44084), (239, 44078), (242, 44060), (251, 44027), (254, 44006), (263, 43976), (279, 43862), (283, 43820), (285, 43799), (289, 43766), (307, 43694), (310, 43688), (320, 43640), (331, 43595), (338, 43571), (343, 43556), (348, 43532),

Gene: Jiraiya_53 Start: 44951, Stop: 43548, Start Num: 71

Candidate Starts for Jiraiya_53:

(36, 45113), (Start: 71 @44951 has 18 MA's), (Start: 76 @44948 has 65 MA's), (84, 44900), (97, 44828), (Start: 105 @44807 has 5 MA's), (Start: 135 @44711 has 1 MA's), (149, 44660), (161, 44594), (162, 44591), (165, 44567), (167, 44540), (182, 44474), (186, 44462), (196, 44426), (213, 44381), (220, 44351), (227, 44312), (232, 44273), (236, 44240), (237, 44237), (242, 44213), (251, 44180), (254, 44159), (263, 44129), (279, 44015), (283, 43973), (285, 43952), (289, 43919), (307, 43847), (310, 43841), (320, 43793), (331, 43748), (338, 43724), (343, 43709), (348, 43685),

Gene: Jolie1_044 Start: 43527, Stop: 42097, Start Num: 68

Candidate Starts for Jolie1_044:

(42, 43617), (45, 43593), (54, 43557), (Start: 68 @43527 has 2 MA's), (Start: 77 @43509 has 1 MA's), (116, 43305), (122, 43287), (131, 43233), (140, 43206), (148, 43170), (149, 43158), (180, 42978), (182, 42972), (188, 42954), (191, 42939), (218, 42873), (222, 42840), (224, 42831), (227, 42819), (228, 42816), (237, 42744), (239, 42738), (240, 42729), (242, 42720), (243, 42717), (255, 42663), (261, 42648), (268, 42609), (272, 42579), (283, 42486), (285, 42465), (289, 42432), (310, 42393), (319, 42348), (323, 42330), (325, 42324), (336, 42279),

Gene: KLucky39_51 Start: 45251, Stop: 43851, Start Num: 76

Candidate Starts for KLucky39_51:

(10, 45632), (12, 45587), (18, 45545), (26, 45464), (36, 45419), (Start: 74 @45254 has 212 MA's), (Start: 76 @45251 has 65 MA's), (Start: 77 @45245 has 1 MA's), (84, 45203), (97, 45131), (Start: 105 @45110 has 5 MA's), (Start: 135 @45014 has 1 MA's), (149, 44963), (161, 44897), (162, 44894), (165, 44870), (167, 44843), (182, 44777), (186, 44765), (196, 44729), (213, 44684), (220, 44654), (227, 44615), (232, 44576), (236, 44543), (237, 44540), (242, 44516), (251, 44483), (254, 44462), (263, 44432), (279, 44318), (283, 44276), (285, 44255), (289, 44222), (307, 44150), (310, 44144), (320, 44096), (331, 44051), (338, 44027), (343, 44012), (348, 43988),

Gene: Kahve_50 Start: 44952, Stop: 43549, Start Num: 74

Candidate Starts for Kahve_50:

(36, 45117), (Start: 74 @44952 has 212 MA's), (Start: 76 @44949 has 65 MA's), (Start: 77 @44943 has 1 MA's), (84, 44901), (97, 44829), (Start: 105 @44808 has 5 MA's), (Start: 135 @44712 has 1 MA's), (149, 44661), (161, 44595), (162, 44592), (165, 44568), (167, 44541), (182, 44475), (186, 44463), (196, 44427), (213, 44382), (220, 44352), (227, 44313), (232, 44274), (236, 44241), (237, 44238), (242, 44214), (251, 44181), (254, 44160), (263, 44130), (279, 44016), (283, 43974), (285, 43953), (289, 43920), (307, 43848), (310, 43842), (320, 43794), (331, 43749), (338, 43725), (343, 43710), (348, 43686),

Gene: Kailash_51 Start: 45314, Stop: 43911, Start Num: 74

Candidate Starts for Kailash_51:

(36, 45479), (Start: 74 @45314 has 212 MA's), (Start: 76 @45311 has 65 MA's), (Start: 77 @45305 has 1 MA's), (84, 45263), (97, 45191), (Start: 105 @45170 has 5 MA's), (Start: 135 @45074 has 1 MA's), (149, 45023), (161, 44957), (162, 44954), (167, 44903), (182, 44837), (186, 44825), (196, 44789), (213, 44744), (220, 44714), (227, 44675), (232, 44636), (236, 44603), (237, 44600), (239, 44594), (242, 44576), (251, 44543), (254, 44522), (263, 44492), (279, 44378), (283, 44336), (285, 44315), (289, 44282), (307, 44210), (310, 44204), (320, 44156), (331, 44111), (338, 44087), (343, 44072), (348, 44048),

Gene: Kaleb_50 Start: 44997, Stop: 43630, Start Num: 76

Candidate Starts for Kaleb_50:

(Start: 76 @44997 has 65 MA's), (86, 44934), (88, 44919), (117, 44808), (134, 44757), (148, 44709), (156, 44661), (179, 44520), (182, 44511), (205, 44466), (207, 44460), (208, 44454), (213, 44442), (232, 44337), (236, 44304), (240, 44286), (242, 44277), (251, 44244), (256, 44217), (263, 44193), (268, 44166), (271, 44139), (280, 44064), (285, 44019), (289, 43986), (297, 43965), (305, 43959), (315, 43926), (316, 43917), (318, 43908), (361, 43746), (364, 43728), (372, 43671),

Gene: Kamiyu_49 Start: 44846, Stop: 43233, Start Num: 34

Candidate Starts for Kamiyu_49:

(14, 44972), (16, 44966), (19, 44951), (Start: 32 @44855 has 9 MA's), (Start: 34 @44846 has 41 MA's), (49, 44750), (Start: 72 @44672 has 8 MA's), (98, 44537), (Start: 135 @44378 has 1 MA's), (141, 44363), (143, 44351), (149, 44321), (158, 44279), (167, 44201), (203, 44069), (210, 44036), (213, 44027), (231, 43934), (237, 43886), (240, 43871), (242, 43862), (251, 43829), (256, 43802), (263,

43778), (278, 43688), (289, 43577), (307, 43544), (308, 43541), (311, 43526), (317, 43505), (324, 43472),

Gene: KarasumaRum_51 Start: 46290, Stop: 44905, Start Num: 72

Candidate Starts for KarasumaRum_51:

(36, 46440), (Start: 72 @46290 has 8 MA's), (Start: 79 @46272 has 2 MA's), (Start: 113 @46116 has 5 MA's), (Start: 135 @46053 has 1 MA's), (144, 46023), (172, 45858), (184, 45816), (189, 45798), (194, 45783), (215, 45732), (224, 45681), (237, 45594), (240, 45579), (242, 45570), (256, 45510), (263, 45486), (264, 45483), (281, 45351), (285, 45318), (289, 45285), (291, 45267), (307, 45213), (318, 45168), (324, 45141), (345, 45060), (355, 45021), (364, 44979),

Gene: Katniss_52 Start: 45395, Stop: 43992, Start Num: 74

Candidate Starts for Katniss_52:

(10, 45773), (12, 45728), (18, 45686), (26, 45605), (36, 45560), (Start: 74 @45395 has 212 MA's), (Start: 76 @45392 has 65 MA's), (Start: 77 @45386 has 1 MA's), (84, 45344), (97, 45272), (Start: 105 @45251 has 5 MA's), (Start: 135 @45155 has 1 MA's), (149, 45104), (161, 45038), (162, 45035), (167, 44984), (182, 44918), (186, 44906), (196, 44870), (213, 44825), (220, 44795), (227, 44756), (232, 44717), (236, 44684), (237, 44681), (242, 44657), (251, 44624), (254, 44603), (263, 44573), (279, 44459), (283, 44417), (285, 44396), (289, 44363), (307, 44291), (310, 44285), (320, 44237), (331, 44192), (338, 44168), (343, 44153), (348, 44129),

Gene: KayaCho_44 Start: 43553, Stop: 42126, Start Num: 68

Candidate Starts for KayaCho_44:

(64, 43562), (Start: 68 @43553 has 2 MA's), (Start: 77 @43535 has 1 MA's), (116, 43331), (122, 43313), (131, 43259), (148, 43196), (149, 43184), (180, 43004), (182, 42998), (188, 42980), (191, 42965), (218, 42899), (224, 42857), (227, 42845), (228, 42842), (237, 42770), (239, 42764), (242, 42746), (255, 42689), (268, 42635), (272, 42605), (276, 42584), (283, 42512), (285, 42491), (289, 42458), (319, 42374), (323, 42356), (325, 42350), (336, 42305), (338, 42302),

Gene: Keitherie_51 Start: 45298, Stop: 43895, Start Num: 71

Candidate Starts for Keitherie_51:

(36, 45460), (Start: 71 @45298 has 18 MA's), (Start: 76 @45295 has 65 MA's), (84, 45247), (97, 45175), (Start: 105 @45154 has 5 MA's), (Start: 135 @45058 has 1 MA's), (149, 45007), (161, 44941), (162, 44938), (165, 44914), (167, 44887), (182, 44821), (186, 44809), (196, 44773), (213, 44728), (220, 44698), (227, 44659), (232, 44620), (236, 44587), (237, 44584), (242, 44560), (251, 44527), (254, 44506), (263, 44476), (279, 44362), (283, 44320), (285, 44299), (289, 44266), (307, 44194), (310, 44188), (320, 44140), (331, 44095), (338, 44071), (343, 44056), (348, 44032),

Gene: Khan1_51 Start: 44973, Stop: 43570, Start Num: 74

Candidate Starts for Khan1_51:

(10, 45351), (12, 45306), (18, 45264), (26, 45183), (36, 45138), (Start: 74 @44973 has 212 MA's), (Start: 76 @44970 has 65 MA's), (Start: 77 @44964 has 1 MA's), (84, 44922), (97, 44850), (Start: 105 @44829 has 5 MA's), (Start: 135 @44733 has 1 MA's), (149, 44682), (161, 44616), (162, 44613), (167, 44562), (182, 44496), (186, 44484), (196, 44448), (213, 44403), (220, 44373), (227, 44334), (232, 44295), (236, 44262), (237, 44259), (242, 44235), (251, 44202), (254, 44181), (263, 44151), (279, 44037), (283, 43995), (285, 43974), (289, 43941), (307, 43869), (310, 43863), (320, 43815), (331, 43770), (338, 43746), (343, 43731), (348, 43707),

Gene: Kheth_50 Start: 44886, Stop: 43519, Start Num: 76

Candidate Starts for Kheth_50:

(Start: 76 @44886 has 65 MA's), (86, 44823), (88, 44808), (117, 44697), (134, 44646), (148, 44598), (156, 44550), (179, 44409), (182, 44400), (205, 44355), (207, 44349), (208, 44343), (213, 44331), (232, 44226), (236, 44193), (242, 44166), (251, 44133), (256, 44106), (263, 44082), (268, 44055),

(271, 44028), (280, 43953), (285, 43908), (289, 43875), (297, 43854), (305, 43848), (315, 43815), (318, 43797), (361, 43635), (364, 43617), (372, 43560),

Gene: Kikipoo_52 Start: 45386, Stop: 43983, Start Num: 74

Candidate Starts for Kikipoo_52:

(10, 45764), (12, 45719), (18, 45677), (26, 45596), (36, 45551), (Start: 74 @45386 has 212 MA's), (Start: 76 @45383 has 65 MA's), (Start: 77 @45377 has 1 MA's), (84, 45335), (97, 45263), (Start: 105 @45242 has 5 MA's), (Start: 135 @45146 has 1 MA's), (149, 45095), (161, 45029), (162, 45026), (167, 44975), (182, 44909), (186, 44897), (196, 44861), (213, 44816), (220, 44786), (227, 44747), (232, 44708), (236, 44675), (237, 44672), (242, 44648), (251, 44615), (254, 44594), (263, 44564), (279, 44450), (283, 44408), (285, 44387), (289, 44354), (307, 44282), (310, 44276), (320, 44228), (331, 44183), (338, 44159), (343, 44144), (348, 44120),

Gene: Kimbrough_51 Start: 44959, Stop: 43556, Start Num: 74

Candidate Starts for Kimbrough_51:

(36, 45124), (Start: 74 @44959 has 212 MA's), (Start: 76 @44956 has 65 MA's), (Start: 77 @44950 has 1 MA's), (84, 44908), (97, 44836), (Start: 105 @44815 has 5 MA's), (Start: 135 @44719 has 1 MA's), (149, 44668), (161, 44602), (162, 44599), (165, 44575), (167, 44548), (182, 44482), (186, 44470), (196, 44434), (213, 44389), (220, 44359), (227, 44320), (232, 44281), (236, 44248), (237, 44245), (242, 44221), (251, 44188), (254, 44167), (263, 44137), (279, 44023), (283, 43981), (285, 43960), (289, 43927), (307, 43855), (310, 43849), (320, 43801), (331, 43756), (338, 43732), (343, 43717), (348, 43693),

Gene: KingTut_42 Start: 40622, Stop: 39219, Start Num: 74

Candidate Starts for KingTut_42:

(36, 40787), (Start: 74 @40622 has 212 MA's), (Start: 76 @40619 has 65 MA's), (Start: 77 @40613 has 1 MA's), (84, 40571), (97, 40499), (Start: 105 @40478 has 5 MA's), (Start: 135 @40382 has 1 MA's), (149, 40331), (161, 40265), (162, 40262), (167, 40211), (182, 40145), (186, 40133), (196, 40097), (213, 40052), (220, 40022), (227, 39983), (232, 39944), (236, 39911), (237, 39908), (239, 39902), (242, 39884), (251, 39851), (254, 39830), (263, 39800), (279, 39686), (283, 39644), (285, 39623), (289, 39590), (307, 39518), (310, 39512), (320, 39464), (331, 39419), (338, 39395), (343, 39380), (348, 39356),

Gene: KingVeVeVe_51 Start: 45227, Stop: 43827, Start Num: 76

Candidate Starts for KingVeVeVe_51:

(10, 45608), (12, 45563), (18, 45521), (26, 45440), (36, 45395), (Start: 74 @45230 has 212 MA's), (Start: 76 @45227 has 65 MA's), (Start: 77 @45221 has 1 MA's), (84, 45179), (97, 45107), (Start: 105 @45086 has 5 MA's), (Start: 135 @44990 has 1 MA's), (149, 44939), (161, 44873), (162, 44870), (167, 44819), (182, 44753), (186, 44741), (196, 44705), (213, 44660), (220, 44630), (227, 44591), (232, 44552), (236, 44519), (237, 44516), (242, 44492), (251, 44459), (254, 44438), (263, 44408), (279, 44294), (283, 44252), (285, 44231), (289, 44198), (307, 44126), (310, 44120), (320, 44072), (331, 44027), (338, 44003), (343, 43988), (348, 43964),

Gene: KlimbOn_51 Start: 45248, Stop: 43845, Start Num: 74

Candidate Starts for KlimbOn_51:

(10, 45626), (12, 45581), (18, 45539), (26, 45458), (36, 45413), (Start: 74 @45248 has 212 MA's), (Start: 76 @45245 has 65 MA's), (Start: 77 @45239 has 1 MA's), (84, 45197), (97, 45125), (Start: 105 @45104 has 5 MA's), (Start: 135 @45008 has 1 MA's), (149, 44957), (161, 44891), (162, 44888), (165, 44864), (167, 44837), (182, 44771), (186, 44759), (196, 44723), (213, 44678), (220, 44648), (227, 44609), (232, 44570), (236, 44537), (237, 44534), (242, 44510), (251, 44477), (254, 44456), (263, 44426), (283, 44270), (285, 44249), (289, 44216), (307, 44144), (310, 44138), (320, 44090), (331, 44045), (338, 44021), (343, 44006), (348, 43982),

Gene: Kloppinator_52 Start: 45661, Stop: 44258, Start Num: 74

Candidate Starts for Kloppinator_52:

(10, 46039), (12, 45994), (18, 45952), (26, 45871), (36, 45826), (Start: 74 @45661 has 212 MA's), (Start: 76 @45658 has 65 MA's), (Start: 77 @45652 has 1 MA's), (84, 45610), (97, 45538), (Start: 105 @45517 has 5 MA's), (Start: 135 @45421 has 1 MA's), (149, 45370), (161, 45304), (162, 45301), (167, 45250), (182, 45184), (186, 45172), (196, 45136), (213, 45091), (220, 45061), (227, 45022), (232, 44983), (236, 44950), (237, 44947), (242, 44923), (251, 44890), (254, 44869), (263, 44839), (279, 44725), (283, 44683), (285, 44662), (289, 44629), (307, 44557), (310, 44551), (320, 44503), (331, 44458), (338, 44434), (343, 44419), (348, 44395),

Gene: Klocker_52 Start: 47486, Stop: 46047, Start Num: 75

Candidate Starts for Klocker_52:

(22, 47720), (24, 47714), (38, 47633), (Start: 75 @47486 has 2 MA's), (Start: 77 @47480 has 1 MA's), (84, 47438), (118, 47279), (119, 47276), (121, 47270), (Start: 135 @47195 has 1 MA's), (151, 47132), (167, 47024), (187, 46943), (188, 46940), (210, 46886), (218, 46865), (222, 46832), (224, 46823), (231, 46784), (235, 46745), (237, 46736), (240, 46721), (243, 46709), (246, 46697), (252, 46676), (254, 46658), (256, 46652), (261, 46640), (265, 46607), (268, 46562), (273, 46529), (275, 46514), (278, 46499), (279, 46481), (280, 46466), (281, 46454), (285, 46418), (289, 46385), (303, 46364), (307, 46352), (310, 46346), (330, 46256), (335, 46235), (338, 46229), (345, 46208), (358, 46163), (367, 46106), (372, 46070),

Gene: Kolhan_50 Start: 44850, Stop: 43483, Start Num: 76

Candidate Starts for Kolhan_50:

(Start: 76 @44850 has 65 MA's), (86, 44787), (88, 44772), (117, 44661), (134, 44610), (148, 44562), (156, 44514), (179, 44373), (182, 44364), (205, 44319), (207, 44313), (208, 44307), (213, 44295), (232, 44190), (236, 44157), (242, 44130), (251, 44097), (256, 44070), (263, 44046), (268, 44019), (271, 43992), (280, 43917), (285, 43872), (289, 43839), (297, 43818), (305, 43812), (315, 43779), (316, 43770), (318, 43761), (361, 43599), (364, 43581), (372, 43524),

Gene: Kronus_48 Start: 45468, Stop: 43846, Start Num: 32

Candidate Starts for Kronus_48:

(14, 45585), (16, 45579), (19, 45564), (Start: 32 @45468 has 9 MA's), (Start: 34 @45459 has 41 MA's), (49, 45363), (Start: 72 @45285 has 8 MA's), (98, 45150), (Start: 135 @44991 has 1 MA's), (141, 44976), (143, 44964), (149, 44934), (158, 44892), (167, 44814), (203, 44682), (210, 44649), (213, 44640), (231, 44547), (237, 44499), (240, 44484), (242, 44475), (256, 44415), (263, 44391), (278, 44301), (289, 44190), (307, 44157), (308, 44154), (311, 44139), (317, 44118), (324, 44085),

Gene: Kwadwo_50 Start: 44934, Stop: 43531, Start Num: 74

Candidate Starts for Kwadwo_50:

(10, 45312), (12, 45267), (18, 45225), (26, 45144), (36, 45099), (Start: 74 @44934 has 212 MA's), (Start: 76 @44931 has 65 MA's), (Start: 77 @44925 has 1 MA's), (84, 44883), (97, 44811), (Start: 105 @44790 has 5 MA's), (Start: 135 @44694 has 1 MA's), (149, 44643), (161, 44577), (162, 44574), (167, 44523), (182, 44457), (186, 44445), (196, 44409), (213, 44364), (220, 44334), (227, 44295), (232, 44256), (236, 44223), (237, 44220), (242, 44196), (251, 44163), (254, 44142), (263, 44112), (279, 43998), (283, 43956), (285, 43935), (289, 43902), (307, 43830), (310, 43824), (320, 43776), (331, 43731), (338, 43707), (343, 43692), (348, 43668),

Gene: Kwksand96_50 Start: 44809, Stop: 43406, Start Num: 74

Candidate Starts for Kwksand96_50:

(36, 44974), (Start: 74 @44809 has 212 MA's), (Start: 76 @44806 has 65 MA's), (Start: 77 @44800 has 1 MA's), (84, 44758), (97, 44686), (Start: 105 @44665 has 5 MA's), (Start: 135 @44569 has 1 MA's), (149, 44518), (161, 44452), (162, 44449), (167, 44398), (182, 44332), (186, 44320), (196, 44284), (213, 44239), (220, 44209), (227, 44170), (232, 44131), (236, 44098), (237, 44095), (239,

44089), (242, 44071), (251, 44038), (254, 44017), (263, 43987), (279, 43873), (283, 43831), (285, 43810), (289, 43777), (307, 43705), (310, 43699), (320, 43651), (331, 43606), (338, 43582), (343, 43567), (348, 43543),

Gene: Labeouficaum_50 Start: 44804, Stop: 43401, Start Num: 74

Candidate Starts for Labeouficaum_50:

(10, 45182), (12, 45137), (18, 45095), (26, 45014), (36, 44969), (Start: 74 @44804 has 212 MA's), (Start: 76 @44801 has 65 MA's), (Start: 77 @44795 has 1 MA's), (84, 44753), (97, 44681), (Start: 105 @44660 has 5 MA's), (Start: 135 @44564 has 1 MA's), (149, 44513), (161, 44447), (162, 44444), (167, 44393), (182, 44327), (186, 44315), (196, 44279), (213, 44234), (220, 44204), (227, 44165), (232, 44126), (236, 44093), (237, 44090), (239, 44084), (242, 44066), (251, 44033), (254, 44012), (263, 43982), (279, 43868), (283, 43826), (285, 43805), (289, 43772), (307, 43700), (310, 43694), (320, 43646), (331, 43601), (338, 43577), (343, 43562), (348, 43538),

Gene: Lambano_45 Start: 44684, Stop: 43344, Start Num: 73

Candidate Starts for Lambano_45:

(Start: 70 @44687 has 9 MA's), (Start: 73 @44684 has 15 MA's), (Start: 77 @44675 has 1 MA's), (78, 44669), (87, 44618), (131, 44471), (149, 44405), (153, 44381), (182, 44219), (188, 44201), (191, 44186), (192, 44183), (204, 44156), (221, 44093), (222, 44084), (235, 43997), (240, 43973), (251, 43931), (252, 43928), (254, 43910), (263, 43880), (268, 43853), (273, 43820), (277, 43799), (278, 43790), (281, 43745), (282, 43739), (283, 43730), (285, 43709), (289, 43676), (310, 43637), (324, 43571), (325, 43568), (345, 43499), (348, 43481),

Gene: Lars_50 Start: 44957, Stop: 43590, Start Num: 76

Candidate Starts for Lars_50:

(Start: 76 @44957 has 65 MA's), (86, 44894), (88, 44879), (117, 44768), (134, 44717), (148, 44669), (156, 44621), (179, 44480), (182, 44471), (205, 44426), (207, 44420), (208, 44414), (213, 44402), (232, 44297), (236, 44264), (240, 44246), (242, 44237), (251, 44204), (256, 44177), (263, 44153), (268, 44126), (271, 44099), (280, 44024), (285, 43979), (289, 43946), (297, 43925), (305, 43919), (315, 43886), (318, 43868), (361, 43706), (364, 43688), (372, 43631),

Gene: LasagnaCat_52 Start: 45380, Stop: 43977, Start Num: 74

Candidate Starts for LasagnaCat_52:

(36, 45545), (Start: 74 @45380 has 212 MA's), (Start: 76 @45377 has 65 MA's), (Start: 77 @45371 has 1 MA's), (84, 45329), (97, 45257), (Start: 105 @45236 has 5 MA's), (Start: 135 @45140 has 1 MA's), (149, 45089), (161, 45023), (162, 45020), (167, 44969), (182, 44903), (186, 44891), (196, 44855), (213, 44810), (220, 44780), (227, 44741), (232, 44702), (236, 44669), (237, 44666), (242, 44642), (251, 44609), (254, 44588), (263, 44558), (279, 44444), (283, 44402), (285, 44381), (289, 44348), (307, 44276), (310, 44270), (320, 44222), (331, 44177), (338, 44153), (343, 44138), (348, 44114),

Gene: Lasso_51 Start: 45209, Stop: 43806, Start Num: 74

Candidate Starts for Lasso_51:

(10, 45587), (12, 45542), (18, 45500), (26, 45419), (36, 45374), (Start: 74 @45209 has 212 MA's), (Start: 76 @45206 has 65 MA's), (Start: 77 @45200 has 1 MA's), (84, 45158), (97, 45086), (Start: 105 @45065 has 5 MA's), (Start: 135 @44969 has 1 MA's), (149, 44918), (161, 44852), (162, 44849), (167, 44798), (182, 44732), (186, 44720), (196, 44684), (213, 44639), (220, 44609), (227, 44570), (232, 44531), (236, 44498), (237, 44495), (242, 44471), (251, 44438), (254, 44417), (263, 44387), (279, 44273), (283, 44231), (285, 44210), (289, 44177), (307, 44105), (310, 44099), (320, 44051), (331, 44006), (338, 43982), (343, 43967), (348, 43943),

Gene: Laurie_49 Start: 44345, Stop: 42978, Start Num: 76

Candidate Starts for Laurie_49:

(Start: 76 @44345 has 65 MA's), (86, 44282), (88, 44267), (117, 44156), (134, 44105), (148, 44057), (156, 44009), (176, 43874), (179, 43868), (182, 43859), (205, 43814), (207, 43808), (208, 43802), (213, 43790), (232, 43685), (236, 43652), (238, 43646), (242, 43625), (251, 43592), (256, 43565), (263, 43541), (268, 43514), (271, 43487), (280, 43412), (285, 43367), (289, 43334), (297, 43313), (305, 43307), (315, 43274), (318, 43256), (345, 43157), (361, 43094), (364, 43076), (372, 43019),

Gene: LeeLot_51 Start: 45258, Stop: 43858, Start Num: 76

Candidate Starts for LeeLot_51:

(36, 45426), (Start: 74 @45261 has 212 MA's), (Start: 76 @45258 has 65 MA's), (Start: 77 @45252 has 1 MA's), (84, 45210), (97, 45138), (Start: 105 @45117 has 5 MA's), (Start: 135 @45021 has 1 MA's), (149, 44970), (161, 44904), (162, 44901), (165, 44877), (167, 44850), (182, 44784), (186, 44772), (196, 44736), (213, 44691), (220, 44661), (227, 44622), (232, 44583), (236, 44550), (237, 44547), (242, 44523), (251, 44490), (254, 44469), (263, 44439), (279, 44325), (283, 44283), (285, 44262), (289, 44229), (307, 44157), (310, 44151), (320, 44103), (331, 44058), (338, 44034), (343, 44019), (348, 43995),

Gene: Lego3393_50 Start: 45389, Stop: 43986, Start Num: 74

Candidate Starts for Lego3393_50:

(10, 45767), (12, 45722), (18, 45680), (26, 45599), (36, 45554), (Start: 74 @45389 has 212 MA's), (Start: 76 @45386 has 65 MA's), (Start: 77 @45380 has 1 MA's), (84, 45338), (97, 45266), (Start: 105 @45245 has 5 MA's), (Start: 135 @45149 has 1 MA's), (149, 45098), (161, 45032), (162, 45029), (167, 44978), (182, 44912), (186, 44900), (196, 44864), (213, 44819), (220, 44789), (227, 44750), (232, 44711), (236, 44678), (237, 44675), (242, 44651), (251, 44618), (254, 44597), (263, 44567), (279, 44453), (283, 44411), (285, 44390), (289, 44357), (307, 44285), (310, 44279), (320, 44231), (331, 44186), (338, 44162), (343, 44147), (348, 44123),

Gene: Legolas_51 Start: 44976, Stop: 43576, Start Num: 76

Candidate Starts for Legolas_51:

(10, 45357), (12, 45312), (18, 45270), (26, 45189), (36, 45144), (Start: 74 @44979 has 212 MA's), (Start: 76 @44976 has 65 MA's), (Start: 77 @44970 has 1 MA's), (84, 44928), (97, 44856), (Start: 105 @44835 has 5 MA's), (Start: 135 @44739 has 1 MA's), (149, 44688), (161, 44622), (162, 44619), (167, 44568), (182, 44502), (186, 44490), (196, 44454), (213, 44409), (220, 44379), (227, 44340), (232, 44301), (236, 44268), (237, 44265), (242, 44241), (251, 44208), (254, 44187), (263, 44157), (279, 44043), (283, 44001), (285, 43980), (289, 43947), (307, 43875), (310, 43869), (320, 43821), (331, 43776), (338, 43752), (343, 43737), (348, 43713),

Gene: LeiMonet_52 Start: 44941, Stop: 43538, Start Num: 74

Candidate Starts for LeiMonet_52:

(10, 45319), (12, 45274), (18, 45232), (26, 45151), (36, 45106), (Start: 74 @44941 has 212 MA's), (Start: 76 @44938 has 65 MA's), (Start: 77 @44932 has 1 MA's), (84, 44890), (97, 44818), (Start: 105 @44797 has 5 MA's), (Start: 135 @44701 has 1 MA's), (149, 44650), (161, 44584), (162, 44581), (167, 44530), (182, 44464), (186, 44452), (196, 44416), (213, 44371), (220, 44341), (227, 44302), (232, 44263), (236, 44230), (237, 44227), (242, 44203), (251, 44170), (254, 44149), (263, 44119), (279, 44005), (283, 43963), (285, 43942), (289, 43909), (307, 43837), (310, 43831), (320, 43783), (331, 43738), (338, 43714), (343, 43699), (348, 43675),

Gene: LemonSlice_51 Start: 44946, Stop: 43543, Start Num: 74

Candidate Starts for LemonSlice_51:

(10, 45324), (12, 45279), (18, 45237), (26, 45156), (36, 45111), (Start: 74 @44946 has 212 MA's), (Start: 76 @44943 has 65 MA's), (Start: 77 @44937 has 1 MA's), (84, 44895), (97, 44823), (Start: 105 @44802 has 5 MA's), (Start: 135 @44706 has 1 MA's), (149, 44655), (161, 44589), (162, 44586), (167, 44535), (182, 44469), (186, 44457), (196, 44421), (213, 44376), (220, 44346), (227, 44307), (232, 44268), (236, 44235), (237, 44232), (242, 44208), (251, 44175), (254, 44154), (263, 44124), (279,

44010), (283, 43968), (285, 43947), (289, 43914), (307, 43842), (310, 43836), (320, 43788), (331, 43743), (338, 43719), (343, 43704), (348, 43680),

Gene: Lephleur_50 Start: 44863, Stop: 43496, Start Num: 76

Candidate Starts for Lephleur_50:

(Start: 76 @44863 has 65 MA's), (86, 44800), (88, 44785), (117, 44674), (134, 44623), (148, 44575), (156, 44527), (179, 44386), (182, 44377), (205, 44332), (207, 44326), (208, 44320), (213, 44308), (232, 44203), (236, 44170), (242, 44143), (251, 44110), (256, 44083), (263, 44059), (268, 44032), (271, 44005), (280, 43930), (285, 43885), (289, 43852), (297, 43831), (305, 43825), (315, 43792), (318, 43774), (361, 43612), (364, 43594), (372, 43537),

Gene: LestyG_49 Start: 44887, Stop: 43265, Start Num: 32

Candidate Starts for LestyG_49:

(14, 45004), (16, 44998), (19, 44983), (Start: 32 @44887 has 9 MA's), (Start: 34 @44878 has 41 MA's), (49, 44782), (Start: 72 @44704 has 8 MA's), (98, 44569), (Start: 135 @44410 has 1 MA's), (141, 44395), (143, 44383), (149, 44353), (158, 44311), (167, 44233), (203, 44101), (210, 44068), (213, 44059), (231, 43966), (237, 43918), (240, 43903), (242, 43894), (256, 43834), (263, 43810), (278, 43720), (289, 43609), (307, 43576), (308, 43573), (311, 43558), (317, 43537), (324, 43504),

Gene: Ligma_44 Start: 37982, Stop: 36669, Start Num: 57

Candidate Starts for Ligma_44:

(Start: 56 @37985 has 1 MA's), (Start: 57 @37982 has 3 MA's), (Start: 135 @37823 has 1 MA's), (139, 37817), (149, 37766), (210, 37511), (218, 37490), (225, 37445), (228, 37433), (251, 37304), (256, 37277), (263, 37253), (269, 37223), (270, 37205), (273, 37193), (278, 37163), (280, 37130), (285, 37085), (289, 37052), (301, 37019), (305, 36992), (317, 36947), (318, 36941), (324, 36914), (325, 36911), (338, 36863), (372, 36701),

Gene: LilMcDreamy_48 Start: 45351, Stop: 43921, Start Num: 63

Candidate Starts for LilMcDreamy_48:

(Start: 63 @45351 has 1 MA's), (Start: 135 @45084 has 1 MA's), (167, 44913), (188, 44835), (189, 44829), (210, 44775), (228, 44697), (231, 44673), (232, 44661), (242, 44601), (256, 44541), (263, 44517), (264, 44514), (270, 44469), (281, 44382), (289, 44316), (291, 44298), (305, 44235), (307, 44229), (317, 44190), (318, 44184), (324, 44157), (339, 44100), (358, 44031),

Gene: LilSmirk_50 Start: 44860, Stop: 43493, Start Num: 76

Candidate Starts for LilSmirk_50:

(Start: 76 @44860 has 65 MA's), (86, 44797), (88, 44782), (117, 44671), (134, 44620), (148, 44572), (156, 44524), (179, 44383), (182, 44374), (205, 44329), (207, 44323), (208, 44317), (213, 44305), (232, 44200), (236, 44167), (242, 44140), (251, 44107), (256, 44080), (263, 44056), (268, 44029), (271, 44002), (280, 43927), (285, 43882), (289, 43849), (297, 43828), (305, 43822), (315, 43789), (318, 43771), (361, 43609), (364, 43591), (372, 43534),

Gene: LittleMunchkin_46 Start: 41233, Stop: 39968, Start Num: 59

Candidate Starts for LittleMunchkin_46:

(Start: 59 @41233 has 6 MA's), (80, 41194), (Start: 135 @41107 has 1 MA's), (139, 41101), (143, 41080), (149, 41050), (197, 40819), (218, 40774), (228, 40717), (232, 40681), (236, 40648), (237, 40645), (240, 40630), (242, 40621), (246, 40606), (247, 40603), (251, 40588), (256, 40561), (263, 40537), (281, 40402), (285, 40369), (289, 40336), (292, 40327), (301, 40303), (302, 40291), (305, 40276), (318, 40225), (324, 40198), (359, 40075), (364, 40042),

Gene: LizLemon_50 Start: 44979, Stop: 43612, Start Num: 76

Candidate Starts for LizLemon_50:

(Start: 76 @44979 has 65 MA's), (86, 44916), (88, 44901), (117, 44790), (134, 44739), (148, 44691), (156, 44643), (179, 44502), (182, 44493), (205, 44448), (207, 44442), (208, 44436), (213, 44424), (232, 44319), (236, 44286), (240, 44268), (242, 44259), (251, 44226), (256, 44199), (263, 44175), (268, 44148), (271, 44121), (280, 44046), (285, 44001), (289, 43968), (297, 43947), (305, 43941), (315, 43908), (318, 43890), (361, 43728), (364, 43710), (372, 43653),

Gene: Lolalove_47 Start: 45711, Stop: 44371, Start Num: 73

Candidate Starts for Lolalove_47:

(Start: 70 @45714 has 9 MA's), (Start: 73 @45711 has 15 MA's), (Start: 77 @45702 has 1 MA's), (78, 45696), (87, 45645), (131, 45498), (144, 45453), (149, 45432), (171, 45291), (175, 45267), (182, 45246), (183, 45243), (188, 45228), (191, 45213), (218, 45144), (220, 45129), (222, 45111), (228, 45087), (237, 45015), (242, 44991), (251, 44958), (252, 44955), (254, 44937), (263, 44907), (273, 44847), (276, 44829), (278, 44817), (281, 44772), (282, 44766), (283, 44757), (288, 44727), (289, 44703), (310, 44664), (319, 44619), (324, 44598), (325, 44595), (345, 44526), (348, 44508),

Gene: Longacauda_50 Start: 44942, Stop: 43539, Start Num: 74

Candidate Starts for Longacauda_50:

(10, 45320), (12, 45275), (18, 45233), (26, 45152), (36, 45107), (Start: 74 @44942 has 212 MA's), (Start: 76 @44939 has 65 MA's), (Start: 77 @44933 has 1 MA's), (84, 44891), (97, 44819), (Start: 105 @44798 has 5 MA's), (Start: 135 @44702 has 1 MA's), (149, 44651), (161, 44585), (162, 44582), (167, 44531), (182, 44465), (186, 44453), (196, 44417), (213, 44372), (220, 44342), (227, 44303), (232, 44264), (236, 44231), (237, 44228), (242, 44204), (251, 44171), (254, 44150), (263, 44120), (279, 44006), (283, 43964), (285, 43943), (289, 43910), (307, 43838), (310, 43832), (320, 43784), (331, 43739), (338, 43715), (343, 43700), (348, 43676),

Gene: Lopsy_50 Start: 44807, Stop: 43404, Start Num: 74

Candidate Starts for Lopsy_50:

(10, 45185), (12, 45140), (18, 45098), (26, 45017), (36, 44972), (Start: 74 @44807 has 212 MA's), (Start: 76 @44804 has 65 MA's), (Start: 77 @44798 has 1 MA's), (84, 44756), (97, 44684), (Start: 105 @44663 has 5 MA's), (Start: 135 @44567 has 1 MA's), (149, 44516), (161, 44450), (162, 44447), (167, 44396), (182, 44330), (186, 44318), (196, 44282), (213, 44237), (220, 44207), (227, 44168), (232, 44129), (236, 44096), (237, 44093), (242, 44069), (251, 44036), (254, 44015), (263, 43985), (279, 43871), (283, 43829), (285, 43808), (289, 43775), (307, 43703), (310, 43697), (331, 43604), (338, 43580), (343, 43565), (348, 43541),

Gene: LostAndPhound_50 Start: 44961, Stop: 43558, Start Num: 74

Candidate Starts for LostAndPhound_50:

(10, 45339), (12, 45294), (18, 45252), (26, 45171), (36, 45126), (Start: 74 @44961 has 212 MA's), (Start: 76 @44958 has 65 MA's), (Start: 77 @44952 has 1 MA's), (84, 44910), (97, 44838), (Start: 105 @44817 has 5 MA's), (Start: 135 @44721 has 1 MA's), (149, 44670), (161, 44604), (162, 44601), (167, 44550), (182, 44484), (186, 44472), (196, 44436), (213, 44391), (220, 44361), (227, 44322), (232, 44283), (236, 44250), (237, 44247), (242, 44223), (251, 44190), (254, 44169), (263, 44139), (279, 44025), (283, 43983), (285, 43962), (289, 43929), (307, 43857), (310, 43851), (320, 43803), (331, 43758), (338, 43734), (343, 43719), (348, 43695),

Gene: LuckyMarjie_50 Start: 44949, Stop: 43546, Start Num: 74

Candidate Starts for LuckyMarjie_50:

(36, 45114), (Start: 74 @44949 has 212 MA's), (Start: 76 @44946 has 65 MA's), (Start: 77 @44940 has 1 MA's), (84, 44898), (97, 44826), (Start: 105 @44805 has 5 MA's), (Start: 135 @44709 has 1 MA's), (149, 44658), (161, 44592), (162, 44589), (167, 44538), (182, 44472), (186, 44460), (196, 44424), (213, 44379), (220, 44349), (227, 44310), (232, 44271), (236, 44238), (237, 44235), (242, 44211), (251, 44178), (254, 44157), (263, 44127), (279, 44013), (283, 43971), (285, 43950), (289, 43917), (307, 43845), (310, 43839), (320, 43791), (331, 43746), (338, 43722), (343, 43707), (348,

43683),

Gene: Lulumae_50 Start: 44931, Stop: 43531, Start Num: 76

Candidate Starts for Lulumae_50:

(36, 45099), (Start: 74 @44934 has 212 MA's), (Start: 76 @44931 has 65 MA's), (Start: 77 @44925 has 1 MA's), (84, 44883), (97, 44811), (Start: 105 @44790 has 5 MA's), (Start: 135 @44694 has 1 MA's), (149, 44643), (161, 44577), (162, 44574), (167, 44523), (182, 44457), (186, 44445), (196, 44409), (213, 44364), (220, 44334), (227, 44295), (232, 44256), (236, 44223), (237, 44220), (242, 44196), (251, 44163), (254, 44142), (263, 44112), (279, 43998), (283, 43956), (285, 43935), (289, 43902), (307, 43830), (310, 43824), (320, 43776), (331, 43731), (338, 43707), (343, 43692), (348, 43668),

Gene: Lulwa_51 Start: 45227, Stop: 43824, Start Num: 74

Candidate Starts for Lulwa_51:

(36, 45392), (Start: 74 @45227 has 212 MA's), (Start: 76 @45224 has 65 MA's), (Start: 77 @45218 has 1 MA's), (84, 45176), (97, 45104), (Start: 105 @45083 has 5 MA's), (Start: 135 @44987 has 1 MA's), (149, 44936), (161, 44870), (162, 44867), (167, 44816), (182, 44750), (186, 44738), (196, 44702), (213, 44657), (220, 44627), (227, 44588), (232, 44549), (236, 44516), (237, 44513), (242, 44489), (251, 44456), (254, 44435), (263, 44405), (279, 44291), (283, 44249), (285, 44228), (289, 44195), (307, 44123), (310, 44117), (320, 44069), (331, 44024), (338, 44000), (343, 43985), (348, 43961),

Gene: Lumine_50 Start: 44930, Stop: 43527, Start Num: 74

Candidate Starts for Lumine_50:

(36, 45095), (Start: 74 @44930 has 212 MA's), (Start: 76 @44927 has 65 MA's), (Start: 77 @44921 has 1 MA's), (84, 44879), (97, 44807), (Start: 105 @44786 has 5 MA's), (Start: 135 @44690 has 1 MA's), (149, 44639), (161, 44573), (162, 44570), (167, 44519), (182, 44453), (186, 44441), (196, 44405), (213, 44360), (220, 44330), (227, 44291), (232, 44252), (236, 44219), (237, 44216), (239, 44210), (242, 44192), (251, 44159), (254, 44138), (263, 44108), (279, 43994), (283, 43952), (285, 43931), (289, 43898), (307, 43826), (310, 43820), (320, 43772), (331, 43727), (338, 43703), (343, 43688), (348, 43664),

Gene: MRabcd_50 Start: 44940, Stop: 43537, Start Num: 74

Candidate Starts for MRabcd_50:

(10, 45318), (12, 45273), (18, 45231), (26, 45150), (36, 45105), (Start: 74 @44940 has 212 MA's), (Start: 76 @44937 has 65 MA's), (Start: 77 @44931 has 1 MA's), (84, 44889), (97, 44817), (Start: 105 @44796 has 5 MA's), (Start: 135 @44700 has 1 MA's), (149, 44649), (161, 44583), (162, 44580), (167, 44529), (182, 44463), (186, 44451), (196, 44415), (213, 44370), (220, 44340), (227, 44301), (232, 44262), (236, 44229), (237, 44226), (242, 44202), (251, 44169), (254, 44148), (263, 44118), (279, 44004), (283, 43962), (285, 43941), (289, 43908), (307, 43836), (310, 43830), (320, 43782), (331, 43737), (338, 43713), (343, 43698), (348, 43674),

Gene: Mag7_50 Start: 44864, Stop: 43461, Start Num: 74

Candidate Starts for Mag7_50:

(36, 45029), (Start: 74 @44864 has 212 MA's), (Start: 76 @44861 has 65 MA's), (Start: 77 @44855 has 1 MA's), (84, 44813), (97, 44741), (Start: 105 @44720 has 5 MA's), (Start: 135 @44624 has 1 MA's), (149, 44573), (161, 44507), (162, 44504), (167, 44453), (182, 44387), (186, 44375), (196, 44339), (213, 44294), (220, 44264), (227, 44225), (232, 44186), (236, 44153), (237, 44150), (239, 44144), (242, 44126), (251, 44093), (254, 44072), (263, 44042), (279, 43928), (283, 43886), (285, 43865), (289, 43832), (307, 43760), (310, 43754), (320, 43706), (331, 43661), (338, 43637), (343, 43622), (348, 43598),

Gene: Magic8_51 Start: 45299, Stop: 43896, Start Num: 74

Candidate Starts for Magic8_51:

(36, 45464), (Start: 74 @45299 has 212 MA's), (Start: 76 @45296 has 65 MA's), (Start: 77 @45290 has 1 MA's), (84, 45248), (97, 45176), (Start: 105 @45155 has 5 MA's), (Start: 135 @45059 has 1 MA's), (149, 45008), (161, 44942), (162, 44939), (167, 44888), (182, 44822), (186, 44810), (196, 44774), (213, 44729), (220, 44699), (227, 44660), (232, 44621), (236, 44588), (237, 44585), (239, 44579), (242, 44561), (251, 44528), (254, 44507), (263, 44477), (279, 44363), (283, 44321), (285, 44300), (289, 44267), (307, 44195), (310, 44189), (320, 44141), (331, 44096), (338, 44072), (343, 44057), (348, 44033),

Gene: Magpie_45 Start: 45553, Stop: 44210, Start Num: 70

Candidate Starts for Magpie_45:

(Start: 70 @45553 has 9 MA's), (Start: 73 @45550 has 15 MA's), (Start: 77 @45541 has 1 MA's), (78, 45535), (87, 45484), (131, 45337), (144, 45292), (149, 45271), (171, 45130), (175, 45106), (182, 45085), (183, 45082), (188, 45067), (191, 45052), (218, 44983), (220, 44968), (228, 44926), (237, 44854), (240, 44839), (242, 44830), (251, 44797), (252, 44794), (254, 44776), (263, 44746), (273, 44686), (276, 44668), (278, 44656), (281, 44611), (282, 44605), (283, 44596), (288, 44566), (289, 44542), (310, 44503), (319, 44458), (324, 44437), (325, 44434), (345, 44365), (348, 44347),

Gene: Mahdia_31 Start: 24495, Stop: 23398, Start Num: 133

Candidate Starts for Mahdia_31:

(21, 25017), (41, 24885), (53, 24807), (Start: 133 @24495 has 4 MA's), (163, 24360), (175, 24273), (178, 24264), (234, 24093), (246, 24039), (261, 23967), (269, 23931), (275, 23889), (286, 23793), (289, 23763), (298, 23736), (305, 23688), (312, 23661), (319, 23628), (328, 23595), (342, 23568), (347, 23547), (352, 23532),

Gene: Maih_43 Start: 36174, Stop: 34984, Start Num: 105

Candidate Starts for Maih_43:

(52, 36393), (67, 36342), (82, 36285), (Start: 105 @36174 has 5 MA's), (Start: 113 @36150 has 5 MA's), (126, 36111), (140, 36072), (150, 36027), (152, 36006), (168, 35901), (169, 35895), (178, 35850), (182, 35838), (216, 35781), (219, 35775), (227, 35730), (230, 35712), (240, 35640), (248, 35610), (255, 35574), (256, 35571), (259, 35562), (305, 35286), (309, 35277), (318, 35232), (323, 35208), (326, 35199), (334, 35166), (351, 35109), (357, 35091), (371, 34998), (372, 34995),

Gene: MakoManhole_47 Start: 40329, Stop: 38938, Start Num: 34

Candidate Starts for MakoManhole_47:

(3, 40668), (5, 40644), (9, 40533), (11, 40488), (Start: 34 @40329 has 41 MA's), (38, 40302), (44, 40251), (81, 40107), (139, 40101), (147, 40068), (149, 40050), (155, 40017), (157, 40011), (169, 39921), (185, 39861), (209, 39792), (224, 39729), (234, 39657), (236, 39645), (240, 39627), (242, 39618), (251, 39585), (263, 39534), (269, 39504), (272, 39477), (273, 39474), (285, 39366), (290, 39324), (299, 39291), (305, 39246), (310, 39234), (317, 39201), (318, 39195), (324, 39168),

Gene: Mana_50 Start: 44949, Stop: 43546, Start Num: 74

Candidate Starts for Mana_50:

(10, 45327), (12, 45282), (18, 45240), (26, 45159), (36, 45114), (Start: 74 @44949 has 212 MA's), (Start: 76 @44946 has 65 MA's), (Start: 77 @44940 has 1 MA's), (84, 44898), (97, 44826), (Start: 105 @44805 has 5 MA's), (Start: 135 @44709 has 1 MA's), (149, 44658), (161, 44592), (162, 44589), (167, 44538), (182, 44472), (186, 44460), (196, 44424), (213, 44379), (220, 44349), (227, 44310), (232, 44271), (236, 44238), (237, 44235), (242, 44211), (251, 44178), (254, 44157), (263, 44127), (279, 44013), (283, 43971), (285, 43950), (289, 43917), (307, 43845), (310, 43839), (320, 43791), (331, 43746), (338, 43722), (343, 43707), (348, 43683),

Gene: Manad_51 Start: 45209, Stop: 43806, Start Num: 74

Candidate Starts for Manad_51:

(10, 45587), (12, 45542), (18, 45500), (26, 45419), (36, 45374), (Start: 74 @45209 has 212 MA's), (Start: 76 @45206 has 65 MA's), (Start: 77 @45200 has 1 MA's), (84, 45158), (97, 45086), (Start: 105 @45065 has 5 MA's), (Start: 135 @44969 has 1 MA's), (149, 44918), (161, 44852), (162, 44849), (167, 44798), (182, 44732), (186, 44720), (196, 44684), (213, 44639), (220, 44609), (227, 44570), (232, 44531), (236, 44498), (237, 44495), (242, 44471), (251, 44438), (254, 44417), (263, 44387), (279, 44273), (283, 44231), (285, 44210), (289, 44177), (307, 44105), (310, 44099), (331, 44006), (338, 43982), (343, 43967), (348, 43943),

Gene: Mariokart_44 Start: 37741, Stop: 36515, Start Num: 85

Candidate Starts for Mariokart_44:

(Start: 85 @37741 has 1 MA's), (Start: 135 @37669 has 1 MA's), (143, 37642), (149, 37612), (201, 37375), (210, 37357), (224, 37294), (225, 37291), (228, 37279), (251, 37150), (256, 37123), (263, 37099), (270, 37051), (273, 37039), (278, 37009), (280, 36976), (285, 36931), (289, 36898), (301, 36865), (305, 36838), (317, 36793), (318, 36787), (324, 36760), (325, 36757), (338, 36709), (372, 36547),

Gene: Marley1013_49 Start: 45665, Stop: 44043, Start Num: 32

Candidate Starts for Marley1013_49:

(14, 45782), (16, 45776), (19, 45761), (Start: 32 @45665 has 9 MA's), (Start: 34 @45656 has 41 MA's), (49, 45560), (Start: 72 @45482 has 8 MA's), (98, 45347), (Start: 135 @45188 has 1 MA's), (141, 45173), (143, 45161), (149, 45131), (158, 45089), (167, 45011), (203, 44879), (210, 44846), (213, 44837), (231, 44744), (237, 44696), (240, 44681), (242, 44672), (251, 44639), (256, 44612), (263, 44588), (278, 44498), (289, 44387), (307, 44354), (308, 44351), (311, 44336), (317, 44315), (324, 44282),

Gene: Maru_50 Start: 44889, Stop: 43489, Start Num: 76

Candidate Starts for Maru_50:

(10, 45270), (12, 45225), (18, 45183), (26, 45102), (36, 45057), (Start: 74 @44892 has 212 MA's), (Start: 76 @44889 has 65 MA's), (Start: 77 @44883 has 1 MA's), (84, 44841), (97, 44769), (Start: 105 @44748 has 5 MA's), (Start: 135 @44652 has 1 MA's), (149, 44601), (161, 44535), (162, 44532), (167, 44481), (182, 44415), (186, 44403), (196, 44367), (213, 44322), (220, 44292), (227, 44253), (232, 44214), (236, 44181), (237, 44178), (242, 44154), (251, 44121), (254, 44100), (263, 44070), (279, 43956), (283, 43914), (285, 43893), (289, 43860), (307, 43788), (310, 43782), (320, 43734), (331, 43689), (338, 43665), (343, 43650), (348, 43626),

Gene: Maskar_51 Start: 44930, Stop: 43527, Start Num: 74

Candidate Starts for Maskar_51:

(36, 45095), (Start: 74 @44930 has 212 MA's), (Start: 76 @44927 has 65 MA's), (Start: 77 @44921 has 1 MA's), (84, 44879), (97, 44807), (Start: 105 @44786 has 5 MA's), (Start: 135 @44690 has 1 MA's), (149, 44639), (161, 44573), (162, 44570), (167, 44519), (182, 44453), (186, 44441), (196, 44405), (213, 44360), (220, 44330), (227, 44291), (232, 44252), (236, 44219), (237, 44216), (239, 44210), (242, 44192), (251, 44159), (254, 44138), (263, 44108), (279, 43994), (283, 43952), (285, 43931), (289, 43898), (307, 43826), (310, 43820), (320, 43772), (331, 43727), (338, 43703), (343, 43688), (348, 43664),

Gene: MasterPo_50 Start: 44872, Stop: 43505, Start Num: 76

Candidate Starts for MasterPo_50:

(Start: 76 @44872 has 65 MA's), (86, 44809), (88, 44794), (117, 44683), (134, 44632), (148, 44584), (156, 44536), (179, 44395), (182, 44386), (205, 44341), (207, 44335), (208, 44329), (213, 44317), (232, 44212), (236, 44179), (242, 44152), (251, 44119), (256, 44092), (263, 44068), (268, 44041), (271, 44014), (280, 43939), (285, 43894), (289, 43861), (297, 43840), (305, 43834), (315, 43801), (316, 43792), (318, 43783), (361, 43621), (364, 43603), (372, 43546),

Gene: Matalotodo_51 Start: 45244, Stop: 43841, Start Num: 74

Candidate Starts for Matalotodo_51:

(36, 45409), (Start: 74 @45244 has 212 MA's), (Start: 76 @45241 has 65 MA's), (Start: 77 @45235 has 1 MA's), (84, 45193), (97, 45121), (Start: 105 @45100 has 5 MA's), (Start: 135 @45004 has 1 MA's), (149, 44953), (161, 44887), (162, 44884), (165, 44860), (167, 44833), (182, 44767), (186, 44755), (196, 44719), (213, 44674), (220, 44644), (227, 44605), (232, 44566), (236, 44533), (237, 44530), (242, 44506), (251, 44473), (254, 44452), (263, 44422), (279, 44308), (283, 44266), (285, 44245), (289, 44212), (307, 44140), (310, 44134), (320, 44086), (331, 44041), (338, 44017), (343, 44002), (348, 43978),

Gene: Mcshane_50 Start: 44941, Stop: 43538, Start Num: 74

Candidate Starts for Mcshane_50:

(10, 45319), (12, 45274), (18, 45232), (26, 45151), (36, 45106), (Start: 74 @44941 has 212 MA's), (Start: 76 @44938 has 65 MA's), (Start: 77 @44932 has 1 MA's), (84, 44890), (97, 44818), (Start: 105 @44797 has 5 MA's), (Start: 135 @44701 has 1 MA's), (149, 44650), (161, 44584), (162, 44581), (167, 44530), (182, 44464), (186, 44452), (196, 44416), (213, 44371), (220, 44341), (227, 44302), (232, 44263), (236, 44230), (237, 44227), (242, 44203), (251, 44170), (254, 44149), (263, 44119), (279, 44005), (283, 43963), (285, 43942), (289, 43909), (307, 43837), (310, 43831), (320, 43783), (331, 43738), (338, 43714), (343, 43699), (348, 43675),

Gene: Mecca_50 Start: 44947, Stop: 43544, Start Num: 74

Candidate Starts for Mecca_50:

(36, 45112), (Start: 74 @44947 has 212 MA's), (Start: 76 @44944 has 65 MA's), (Start: 77 @44938 has 1 MA's), (84, 44896), (97, 44824), (Start: 105 @44803 has 5 MA's), (Start: 135 @44707 has 1 MA's), (149, 44656), (161, 44590), (162, 44587), (165, 44563), (167, 44536), (182, 44470), (186, 44458), (196, 44422), (213, 44377), (220, 44347), (227, 44308), (232, 44269), (236, 44236), (237, 44233), (242, 44209), (251, 44176), (254, 44155), (263, 44125), (279, 44011), (283, 43969), (285, 43948), (289, 43915), (307, 43843), (310, 43837), (320, 43789), (331, 43744), (338, 43720), (343, 43705), (348, 43681),

Gene: Megamind20_51 Start: 44966, Stop: 43566, Start Num: 76

Candidate Starts for Megamind20_51:

(10, 45347), (12, 45302), (18, 45260), (26, 45179), (36, 45134), (Start: 74 @44969 has 212 MA's), (Start: 76 @44966 has 65 MA's), (Start: 77 @44960 has 1 MA's), (84, 44918), (97, 44846), (Start: 105 @44825 has 5 MA's), (Start: 135 @44729 has 1 MA's), (149, 44678), (161, 44612), (162, 44609), (167, 44558), (182, 44492), (186, 44480), (196, 44444), (213, 44399), (220, 44369), (227, 44330), (232, 44291), (236, 44258), (237, 44255), (242, 44231), (251, 44198), (254, 44177), (263, 44147), (279, 44033), (283, 43991), (285, 43970), (289, 43937), (307, 43865), (310, 43859), (320, 43811), (331, 43766), (338, 43742), (343, 43727), (348, 43703),

Gene: Megatron_52 Start: 45377, Stop: 43974, Start Num: 74

Candidate Starts for Megatron_52:

(10, 45755), (12, 45710), (18, 45668), (26, 45587), (36, 45542), (Start: 74 @45377 has 212 MA's), (Start: 76 @45374 has 65 MA's), (Start: 77 @45368 has 1 MA's), (84, 45326), (97, 45254), (Start: 105 @45233 has 5 MA's), (Start: 135 @45137 has 1 MA's), (149, 45086), (161, 45020), (162, 45017), (167, 44966), (182, 44900), (186, 44888), (196, 44852), (213, 44807), (220, 44777), (227, 44738), (232, 44699), (236, 44666), (237, 44663), (242, 44639), (251, 44606), (254, 44585), (263, 44555), (279, 44441), (283, 44399), (285, 44378), (289, 44345), (307, 44273), (310, 44267), (320, 44219), (331, 44174), (338, 44150), (343, 44135), (348, 44111),

Gene: Melc17_51 Start: 45239, Stop: 43836, Start Num: 74

Candidate Starts for Melc17_51:

(36, 45404), (Start: 74 @45239 has 212 MA's), (Start: 76 @45236 has 65 MA's), (Start: 77 @45230 has 1 MA's), (84, 45188), (97, 45116), (Start: 105 @45095 has 5 MA's), (Start: 135 @44999 has 1 MA's), (149, 44948), (161, 44882), (162, 44879), (167, 44828), (182, 44762), (186, 44750), (196, 44714), (213, 44669), (220, 44639), (227, 44600), (232, 44561), (236, 44528), (237, 44525), (239, 44519), (242, 44501), (251, 44468), (254, 44447), (263, 44417), (279, 44303), (283, 44261), (285, 44240), (289, 44207), (307, 44135), (310, 44129), (320, 44081), (331, 44036), (338, 44012), (343, 43997), (348, 43973),

Gene: MelsMeow_51 Start: 44983, Stop: 43580, Start Num: 74

Candidate Starts for MelsMeow_51:

(36, 45148), (Start: 74 @44983 has 212 MA's), (Start: 76 @44980 has 65 MA's), (Start: 77 @44974 has 1 MA's), (84, 44932), (97, 44860), (Start: 105 @44839 has 5 MA's), (Start: 135 @44743 has 1 MA's), (149, 44692), (161, 44626), (162, 44623), (167, 44572), (182, 44506), (186, 44494), (196, 44458), (213, 44413), (220, 44383), (227, 44344), (232, 44305), (236, 44272), (237, 44269), (239, 44263), (242, 44245), (251, 44212), (254, 44191), (263, 44161), (279, 44047), (283, 44005), (285, 43984), (289, 43951), (307, 43879), (310, 43873), (320, 43825), (331, 43780), (338, 43756), (343, 43741), (348, 43717),

Gene: Mesh1_51 Start: 45257, Stop: 43854, Start Num: 71

Candidate Starts for Mesh1_51:

(Start: 71 @45257 has 18 MA's), (Start: 76 @45254 has 65 MA's), (Start: 77 @45248 has 1 MA's), (84, 45206), (97, 45134), (Start: 105 @45113 has 5 MA's), (Start: 135 @45017 has 1 MA's), (149, 44966), (161, 44900), (162, 44897), (167, 44846), (182, 44780), (186, 44768), (196, 44732), (213, 44687), (220, 44657), (227, 44618), (232, 44579), (236, 44546), (237, 44543), (242, 44519), (251, 44486), (254, 44465), (263, 44435), (279, 44321), (283, 44279), (285, 44258), (289, 44225), (307, 44153), (310, 44147), (320, 44099), (331, 44054), (338, 44030), (343, 44015), (348, 43991),

Gene: Mesmerelda_52 Start: 44951, Stop: 43548, Start Num: 74

Candidate Starts for Mesmerelda_52:

(10, 45329), (12, 45284), (18, 45242), (26, 45161), (36, 45116), (Start: 74 @44951 has 212 MA's), (Start: 76 @44948 has 65 MA's), (Start: 77 @44942 has 1 MA's), (84, 44900), (97, 44828), (Start: 105 @44807 has 5 MA's), (Start: 135 @44711 has 1 MA's), (149, 44660), (161, 44594), (162, 44591), (167, 44540), (182, 44474), (186, 44462), (196, 44426), (213, 44381), (220, 44351), (227, 44312), (232, 44273), (236, 44240), (237, 44237), (242, 44213), (251, 44180), (254, 44159), (263, 44129), (279, 44015), (283, 43973), (285, 43952), (289, 43919), (307, 43847), (310, 43841), (320, 43793), (331, 43748), (338, 43724), (343, 43709), (348, 43685),

Gene: MichaelPhcott_50 Start: 44861, Stop: 43458, Start Num: 74

Candidate Starts for MichaelPhcott_50:

(36, 45026), (Start: 74 @44861 has 212 MA's), (Start: 76 @44858 has 65 MA's), (Start: 77 @44852 has 1 MA's), (84, 44810), (97, 44738), (Start: 105 @44717 has 5 MA's), (Start: 135 @44621 has 1 MA's), (149, 44570), (161, 44504), (162, 44501), (167, 44450), (182, 44384), (186, 44372), (196, 44336), (213, 44291), (220, 44261), (227, 44222), (232, 44183), (236, 44150), (237, 44147), (239, 44141), (242, 44123), (251, 44090), (254, 44069), (263, 44039), (279, 43925), (283, 43883), (285, 43862), (289, 43829), (307, 43757), (310, 43751), (320, 43703), (331, 43658), (338, 43634), (343, 43619), (348, 43595),

Gene: Mikota_51 Start: 45227, Stop: 43824, Start Num: 74

Candidate Starts for Mikota_51:

(10, 45605), (12, 45560), (18, 45518), (26, 45437), (36, 45392), (Start: 74 @45227 has 212 MA's), (Start: 76 @45224 has 65 MA's), (Start: 77 @45218 has 1 MA's), (84, 45176), (97, 45104), (Start: 105 @45083 has 5 MA's), (Start: 135 @44987 has 1 MA's), (149, 44936), (161, 44870), (162, 44867), (167, 44816), (182, 44750), (186, 44738), (196, 44702), (213, 44657), (220, 44627), (227, 44588), (232,

44549), (236, 44516), (237, 44513), (242, 44489), (251, 44456), (254, 44435), (263, 44405), (279, 44291), (283, 44249), (285, 44228), (289, 44195), (307, 44123), (310, 44117), (320, 44069), (331, 44024), (338, 44000), (343, 43985), (348, 43961),

Gene: MiniBoss_51 Start: 45230, Stop: 43830, Start Num: 76

Candidate Starts for MiniBoss_51:

(10, 45611), (12, 45566), (18, 45524), (26, 45443), (36, 45398), (Start: 74 @45233 has 212 MA's), (Start: 76 @45230 has 65 MA's), (Start: 77 @45224 has 1 MA's), (84, 45182), (97, 45110), (Start: 105 @45089 has 5 MA's), (Start: 135 @44993 has 1 MA's), (149, 44942), (161, 44876), (162, 44873), (167, 44822), (182, 44756), (186, 44744), (196, 44708), (213, 44663), (220, 44633), (227, 44594), (232, 44555), (236, 44522), (237, 44519), (242, 44495), (251, 44462), (254, 44441), (263, 44411), (279, 44297), (283, 44255), (285, 44234), (289, 44201), (307, 44129), (310, 44123), (320, 44075), (331, 44030), (338, 44006), (343, 43991), (348, 43967),

Gene: Mischief19_53 Start: 46548, Stop: 45343, Start Num: 113

Candidate Starts for Mischief19_53:

(89, 46626), (93, 46605), (100, 46581), (Start: 113 @46548 has 5 MA's), (126, 46509), (160, 46380), (190, 46215), (246, 46017), (256, 45972), (259, 45963), (284, 45795), (287, 45780), (290, 45744), (296, 45720), (306, 45684), (318, 45633), (332, 45567), (340, 45540), (356, 45477), (357, 45474), (365, 45426), (374, 45369), (376, 45354),

Gene: MitKao_51 Start: 44959, Stop: 43556, Start Num: 74

Candidate Starts for MitKao_51:

(10, 45337), (12, 45292), (18, 45250), (26, 45169), (36, 45124), (Start: 74 @44959 has 212 MA's), (Start: 76 @44956 has 65 MA's), (Start: 77 @44950 has 1 MA's), (84, 44908), (97, 44836), (Start: 105 @44815 has 5 MA's), (Start: 135 @44719 has 1 MA's), (149, 44668), (161, 44602), (162, 44599), (167, 44548), (182, 44482), (186, 44470), (196, 44434), (213, 44389), (220, 44359), (227, 44320), (232, 44281), (236, 44248), (237, 44245), (239, 44239), (242, 44221), (251, 44188), (254, 44167), (263, 44137), (279, 44023), (283, 43981), (285, 43960), (289, 43927), (307, 43855), (310, 43849), (320, 43801), (331, 43756), (338, 43732), (343, 43717), (348, 43693),

Gene: Mithril_46 Start: 45718, Stop: 44378, Start Num: 73

Candidate Starts for Mithril_46:

(Start: 70 @45721 has 9 MA's), (Start: 73 @45718 has 15 MA's), (Start: 77 @45709 has 1 MA's), (78, 45703), (87, 45652), (131, 45505), (149, 45439), (171, 45298), (175, 45274), (182, 45253), (183, 45250), (188, 45235), (191, 45220), (218, 45151), (222, 45118), (228, 45094), (237, 45022), (240, 45007), (242, 44998), (251, 44965), (252, 44962), (254, 44944), (263, 44914), (273, 44854), (276, 44836), (278, 44824), (280, 44791), (281, 44779), (282, 44773), (283, 44764), (285, 44743), (288, 44734), (289, 44710), (310, 44671), (324, 44605), (325, 44602), (343, 44539), (345, 44533), (348, 44515),

Gene: MmasiCarm_49 Start: 44861, Stop: 43248, Start Num: 34

Candidate Starts for MmasiCarm_49:

(14, 44987), (16, 44981), (19, 44966), (Start: 32 @44870 has 9 MA's), (Start: 34 @44861 has 41 MA's), (49, 44765), (Start: 72 @44687 has 8 MA's), (98, 44552), (Start: 135 @44393 has 1 MA's), (141, 44378), (143, 44366), (149, 44336), (158, 44294), (167, 44216), (203, 44084), (210, 44051), (213, 44042), (231, 43949), (237, 43901), (240, 43886), (242, 43877), (251, 43844), (256, 43817), (263, 43793), (278, 43703), (289, 43592), (307, 43559), (311, 43541), (317, 43520), (324, 43487),

Gene: Morgushi_51 Start: 44948, Stop: 43545, Start Num: 74

Candidate Starts for Morgushi_51:

(10, 45326), (12, 45281), (18, 45239), (26, 45158), (36, 45113), (Start: 74 @44948 has 212 MA's), (Start: 76 @44945 has 65 MA's), (Start: 77 @44939 has 1 MA's), (84, 44897), (97, 44825), (Start: 105

@44804 has 5 MA's), (Start: 135 @44708 has 1 MA's), (149, 44657), (161, 44591), (162, 44588), (167, 44537), (182, 44471), (186, 44459), (196, 44423), (213, 44378), (220, 44348), (227, 44309), (232, 44270), (236, 44237), (237, 44234), (242, 44210), (251, 44177), (254, 44156), (263, 44126), (279, 44012), (283, 43970), (285, 43949), (289, 43916), (307, 43844), (310, 43838), (320, 43790), (331, 43745), (338, 43721), (343, 43706), (348, 43682),

Gene: Morrissey_33 Start: 26237, Stop: 25131, Start Num: 132

Candidate Starts for Morrissey_33:

(Start: 132 @26237 has 1 MA's), (163, 26090), (179, 25988), (234, 25820), (240, 25790), (248, 25760), (261, 25694), (272, 25631), (276, 25613), (286, 25520), (288, 25514), (289, 25490), (296, 25469), (298, 25463), (305, 25415), (316, 25370), (319, 25355), (321, 25346), (324, 25334), (347, 25280), (352, 25265),

Gene: Mortcellus_48 Start: 45513, Stop: 43900, Start Num: 34

Candidate Starts for Mortcellus_48:

(14, 45639), (16, 45633), (19, 45618), (Start: 32 @45522 has 9 MA's), (Start: 34 @45513 has 41 MA's), (49, 45417), (Start: 72 @45339 has 8 MA's), (98, 45204), (Start: 135 @45045 has 1 MA's), (141, 45030), (143, 45018), (149, 44988), (158, 44946), (167, 44868), (203, 44736), (210, 44703), (213, 44694), (231, 44601), (237, 44553), (240, 44538), (242, 44529), (251, 44496), (256, 44469), (263, 44445), (278, 44355), (289, 44244), (307, 44211), (311, 44193), (317, 44172), (324, 44139),

Gene: Morty_52 Start: 45386, Stop: 43983, Start Num: 74

Candidate Starts for Morty_52:

(10, 45764), (12, 45719), (18, 45677), (26, 45596), (36, 45551), (Start: 74 @45386 has 212 MA's), (Start: 76 @45383 has 65 MA's), (Start: 77 @45377 has 1 MA's), (84, 45335), (97, 45263), (Start: 105 @45242 has 5 MA's), (Start: 135 @45146 has 1 MA's), (149, 45095), (161, 45029), (162, 45026), (167, 44975), (182, 44909), (186, 44897), (196, 44861), (213, 44816), (220, 44786), (227, 44747), (232, 44708), (236, 44675), (237, 44672), (242, 44648), (251, 44615), (254, 44594), (263, 44564), (279, 44450), (283, 44408), (285, 44387), (289, 44354), (307, 44282), (310, 44276), (320, 44228), (331, 44183), (338, 44159), (343, 44144), (348, 44120),

Gene: Morty007_49 Start: 45656, Stop: 44043, Start Num: 34

Candidate Starts for Morty007_49:

(14, 45782), (16, 45776), (19, 45761), (Start: 32 @45665 has 9 MA's), (Start: 34 @45656 has 41 MA's), (49, 45560), (Start: 72 @45482 has 8 MA's), (98, 45347), (Start: 135 @45188 has 1 MA's), (141, 45173), (143, 45161), (149, 45131), (158, 45089), (167, 45011), (203, 44879), (210, 44846), (213, 44837), (231, 44744), (237, 44696), (240, 44681), (242, 44672), (251, 44639), (256, 44612), (263, 44588), (278, 44498), (289, 44387), (307, 44354), (308, 44351), (311, 44336), (317, 44315), (324, 44282),

Gene: Mosaic_50 Start: 44953, Stop: 43550, Start Num: 74

Candidate Starts for Mosaic_50:

(10, 45331), (12, 45286), (18, 45244), (26, 45163), (36, 45118), (Start: 74 @44953 has 212 MA's), (Start: 76 @44950 has 65 MA's), (Start: 77 @44944 has 1 MA's), (84, 44902), (97, 44830), (Start: 105 @44809 has 5 MA's), (Start: 135 @44713 has 1 MA's), (149, 44662), (161, 44596), (162, 44593), (167, 44542), (182, 44476), (186, 44464), (196, 44428), (213, 44383), (220, 44353), (227, 44314), (232, 44275), (236, 44242), (237, 44239), (242, 44215), (251, 44182), (254, 44161), (263, 44131), (279, 44017), (283, 43975), (285, 43954), (289, 43921), (307, 43849), (310, 43843), (320, 43795), (331, 43750), (338, 43726), (343, 43711), (348, 43687),

Gene: MossRose_47 Start: 40308, Stop: 38917, Start Num: 34

Candidate Starts for MossRose_47:

(Start: 34 @40308 has 41 MA's), (38, 40281), (44, 40230), (81, 40086), (139, 40080), (147, 40047), (149, 40029), (155, 39996), (157, 39990), (169, 39900), (185, 39840), (209, 39771), (218, 39750), (224, 39708), (234, 39636), (236, 39624), (240, 39606), (242, 39597), (251, 39564), (263, 39513), (269, 39483), (273, 39453), (285, 39345), (290, 39303), (299, 39270), (305, 39225), (310, 39213), (317, 39180), (318, 39174), (324, 39147),

Gene: MrPhizzler_50 Start: 44950, Stop: 43547, Start Num: 74

Candidate Starts for MrPhizzler_50:

(10, 45328), (12, 45283), (18, 45241), (26, 45160), (36, 45115), (Start: 74 @44950 has 212 MA's), (Start: 76 @44947 has 65 MA's), (Start: 77 @44941 has 1 MA's), (84, 44899), (97, 44827), (Start: 105 @44806 has 5 MA's), (Start: 135 @44710 has 1 MA's), (149, 44659), (161, 44593), (162, 44590), (167, 44539), (182, 44473), (186, 44461), (196, 44425), (213, 44380), (220, 44350), (227, 44311), (232, 44272), (236, 44239), (237, 44236), (242, 44212), (251, 44179), (254, 44158), (263, 44128), (279, 44014), (283, 43972), (285, 43951), (289, 43918), (307, 43846), (310, 43840), (320, 43792), (331, 43747), (338, 43723), (343, 43708), (348, 43684),

Gene: Mudslide_46 Start: 45977, Stop: 44637, Start Num: 73

Candidate Starts for Mudslide_46:

(Start: 70 @45980 has 9 MA's), (Start: 73 @45977 has 15 MA's), (Start: 77 @45968 has 1 MA's), (78, 45962), (87, 45911), (131, 45764), (144, 45719), (149, 45698), (171, 45557), (175, 45533), (182, 45512), (183, 45509), (188, 45494), (191, 45479), (218, 45410), (220, 45395), (222, 45377), (228, 45353), (237, 45281), (242, 45257), (251, 45224), (252, 45221), (254, 45203), (263, 45173), (273, 45113), (276, 45095), (278, 45083), (281, 45038), (282, 45032), (283, 45023), (288, 44993), (289, 44969), (310, 44930), (319, 44885), (324, 44864), (325, 44861), (345, 44792), (348, 44774),

Gene: Mulan_51 Start: 45100, Stop: 43700, Start Num: 76

Candidate Starts for Mulan_51:

(36, 45268), (Start: 74 @45103 has 212 MA's), (Start: 76 @45100 has 65 MA's), (Start: 77 @45094 has 1 MA's), (84, 45052), (97, 44980), (Start: 105 @44959 has 5 MA's), (Start: 135 @44863 has 1 MA's), (149, 44812), (161, 44746), (162, 44743), (165, 44719), (167, 44692), (182, 44626), (186, 44614), (196, 44578), (213, 44533), (220, 44503), (227, 44464), (232, 44425), (236, 44392), (237, 44389), (242, 44365), (251, 44332), (254, 44311), (263, 44281), (279, 44167), (283, 44125), (285, 44104), (289, 44071), (307, 43999), (310, 43993), (320, 43945), (331, 43900), (338, 43876), (343, 43861), (348, 43837),

Gene: Murdoc_51 Start: 45234, Stop: 43831, Start Num: 74

Candidate Starts for Murdoc_51:

(36, 45399), (Start: 74 @45234 has 212 MA's), (Start: 76 @45231 has 65 MA's), (Start: 77 @45225 has 1 MA's), (84, 45183), (97, 45111), (Start: 105 @45090 has 5 MA's), (Start: 135 @44994 has 1 MA's), (149, 44943), (161, 44877), (162, 44874), (165, 44850), (167, 44823), (182, 44757), (186, 44745), (196, 44709), (213, 44664), (220, 44634), (227, 44595), (232, 44556), (236, 44523), (237, 44520), (242, 44496), (251, 44463), (254, 44442), (263, 44412), (279, 44298), (283, 44256), (285, 44235), (289, 44202), (307, 44130), (310, 44124), (320, 44076), (331, 44031), (338, 44007), (343, 43992), (348, 43968),

Gene: Mutante_50 Start: 44953, Stop: 43550, Start Num: 74

Candidate Starts for Mutante_50:

(36, 45118), (Start: 74 @44953 has 212 MA's), (Start: 76 @44950 has 65 MA's), (Start: 77 @44944 has 1 MA's), (84, 44902), (97, 44830), (Start: 105 @44809 has 5 MA's), (Start: 135 @44713 has 1 MA's), (149, 44662), (161, 44596), (162, 44593), (165, 44569), (167, 44542), (182, 44476), (186, 44464), (196, 44428), (213, 44383), (220, 44353), (227, 44314), (232, 44275), (236, 44242), (237, 44239), (242, 44215), (251, 44182), (254, 44161), (263, 44131), (279, 44017), (283, 43975), (285, 43954), (289, 43921), (307, 43849), (310, 43843), (320, 43795), (331, 43750), (338, 43726), (343,

43711), (348, 43687),

Gene: Mysterious_51 Start: 46273, Stop: 44888, Start Num: 72

Candidate Starts for Mysterious_51:

(36, 46426), (Start: 72 @46273 has 8 MA's), (Start: 79 @46255 has 2 MA's), (Start: 135 @46036 has 1 MA's), (143, 46009), (144, 46006), (184, 45799), (189, 45781), (224, 45664), (233, 45601), (237, 45577), (240, 45562), (256, 45493), (263, 45469), (264, 45466), (281, 45334), (283, 45322), (285, 45301), (289, 45268), (291, 45250), (307, 45196), (318, 45151), (324, 45124), (345, 45043), (355, 45004), (358, 44998), (364, 44962),

Gene: NHagos_45 Start: 38885, Stop: 37521, Start Num: 34

Candidate Starts for NHagos_45:

(Start: 34 @38885 has 41 MA's), (38, 38858), (44, 38807), (Start: 135 @38663 has 1 MA's), (149, 38606), (187, 38411), (197, 38372), (228, 38270), (236, 38201), (254, 38120), (263, 38090), (264, 38087), (270, 38042), (273, 38030), (281, 37955), (285, 37922), (289, 37889), (301, 37856), (302, 37844), (305, 37829), (310, 37817), (318, 37778), (324, 37751), (364, 37595),

Gene: Nacho_0052 Start: 45380, Stop: 43977, Start Num: 74

Candidate Starts for Nacho_0052:

(36, 45545), (Start: 74 @45380 has 212 MA's), (Start: 76 @45377 has 65 MA's), (Start: 77 @45371 has 1 MA's), (84, 45329), (97, 45257), (Start: 105 @45236 has 5 MA's), (Start: 135 @45140 has 1 MA's), (149, 45089), (161, 45023), (162, 45020), (165, 44996), (167, 44969), (182, 44903), (186, 44891), (196, 44855), (213, 44810), (220, 44780), (227, 44741), (232, 44702), (236, 44669), (237, 44666), (242, 44642), (251, 44609), (254, 44588), (263, 44558), (279, 44444), (283, 44402), (285, 44381), (289, 44348), (307, 44276), (310, 44270), (320, 44222), (331, 44177), (338, 44153), (343, 44138), (348, 44114),

Gene: Nanao_45 Start: 44677, Stop: 43337, Start Num: 73

Candidate Starts for Nanao_45:

(Start: 70 @44680 has 9 MA's), (Start: 73 @44677 has 15 MA's), (Start: 77 @44668 has 1 MA's), (78, 44662), (87, 44611), (131, 44464), (149, 44398), (153, 44374), (182, 44212), (188, 44194), (191, 44179), (192, 44176), (204, 44149), (221, 44086), (222, 44077), (235, 43990), (240, 43966), (251, 43924), (252, 43921), (254, 43903), (263, 43873), (268, 43846), (273, 43813), (277, 43792), (278, 43783), (281, 43738), (282, 43732), (283, 43723), (285, 43702), (289, 43669), (310, 43630), (324, 43564), (325, 43561), (345, 43492), (348, 43474),

Gene: Nangang_50 Start: 46226, Stop: 44841, Start Num: 72

Candidate Starts for Nangang_50:

(Start: 72 @46226 has 8 MA's), (Start: 79 @46208 has 2 MA's), (Start: 135 @45989 has 1 MA's), (144, 45959), (172, 45794), (184, 45752), (189, 45734), (194, 45719), (215, 45668), (224, 45617), (237, 45530), (240, 45515), (242, 45506), (256, 45446), (263, 45422), (264, 45419), (277, 45341), (281, 45287), (289, 45221), (291, 45203), (307, 45149), (317, 45110), (318, 45104), (324, 45077), (345, 44996), (355, 44957), (364, 44915),

Gene: Nathan_52 Start: 45278, Stop: 43875, Start Num: 71

Candidate Starts for Nathan_52:

(36, 45440), (Start: 71 @45278 has 18 MA's), (Start: 76 @45275 has 65 MA's), (84, 45227), (97, 45155), (Start: 105 @45134 has 5 MA's), (Start: 135 @45038 has 1 MA's), (149, 44987), (161, 44921), (162, 44918), (167, 44867), (182, 44801), (186, 44789), (196, 44753), (213, 44708), (220, 44678), (227, 44639), (232, 44600), (236, 44567), (237, 44564), (242, 44540), (251, 44507), (254, 44486), (263, 44456), (279, 44342), (283, 44300), (285, 44279), (289, 44246), (307, 44174), (310, 44168), (320, 44120), (331, 44075), (338, 44051), (343, 44036), (348, 44012),

Gene: Nehemiah_50 Start: 46273, Stop: 44888, Start Num: 72

Candidate Starts for Nehemiah_50:

(36, 46426), (Start: 72 @46273 has 8 MA's), (Start: 79 @46255 has 2 MA's), (83, 46225), (Start: 135 @46036 has 1 MA's), (143, 46009), (184, 45799), (189, 45781), (224, 45664), (233, 45601), (237, 45577), (240, 45562), (256, 45493), (263, 45469), (264, 45466), (281, 45334), (283, 45322), (285, 45301), (289, 45268), (291, 45250), (307, 45196), (318, 45151), (324, 45124), (345, 45043), (355, 45004), (358, 44998), (364, 44962),

Gene: Neos5_49 Start: 45672, Stop: 44059, Start Num: 34

Candidate Starts for Neos5_49:

(14, 45798), (16, 45792), (19, 45777), (Start: 32 @45681 has 9 MA's), (Start: 34 @45672 has 41 MA's), (49, 45576), (Start: 72 @45498 has 8 MA's), (98, 45363), (Start: 135 @45204 has 1 MA's), (141, 45189), (143, 45177), (149, 45147), (158, 45105), (167, 45027), (203, 44895), (210, 44862), (213, 44853), (231, 44760), (237, 44712), (240, 44697), (242, 44688), (256, 44628), (263, 44604), (278, 44514), (289, 44403), (307, 44370), (311, 44352), (317, 44331), (324, 44298),

Gene: Newman_51 Start: 45251, Stop: 43848, Start Num: 74

Candidate Starts for Newman_51:

(10, 45629), (12, 45584), (18, 45542), (26, 45461), (36, 45416), (Start: 74 @45251 has 212 MA's), (Start: 76 @45248 has 65 MA's), (Start: 77 @45242 has 1 MA's), (84, 45200), (97, 45128), (Start: 105 @45107 has 5 MA's), (Start: 135 @45011 has 1 MA's), (149, 44960), (161, 44894), (162, 44891), (165, 44867), (167, 44840), (182, 44774), (186, 44762), (196, 44726), (213, 44681), (220, 44651), (227, 44612), (232, 44573), (236, 44540), (237, 44537), (242, 44513), (251, 44480), (254, 44459), (263, 44429), (283, 44273), (285, 44252), (289, 44219), (307, 44147), (310, 44141), (320, 44093), (331, 44048), (338, 44024), (343, 44009), (348, 43985),

Gene: Nicole21_51 Start: 45255, Stop: 43852, Start Num: 74

Candidate Starts for Nicole21_51:

(36, 45420), (Start: 74 @45255 has 212 MA's), (Start: 76 @45252 has 65 MA's), (Start: 77 @45246 has 1 MA's), (84, 45204), (97, 45132), (Start: 105 @45111 has 5 MA's), (Start: 135 @45015 has 1 MA's), (149, 44964), (161, 44898), (162, 44895), (167, 44844), (182, 44778), (186, 44766), (196, 44730), (213, 44685), (220, 44655), (227, 44616), (232, 44577), (236, 44544), (237, 44541), (242, 44517), (251, 44484), (254, 44463), (263, 44433), (279, 44319), (283, 44277), (285, 44256), (289, 44223), (307, 44151), (310, 44145), (320, 44097), (331, 44052), (338, 44028), (343, 44013), (348, 43989),

Gene: Nigel_45 Start: 44555, Stop: 43215, Start Num: 73

Candidate Starts for Nigel_45:

(Start: 73 @44555 has 15 MA's), (Start: 77 @44546 has 1 MA's), (78, 44540), (131, 44342), (149, 44276), (153, 44252), (178, 44102), (182, 44090), (188, 44072), (220, 43973), (222, 43955), (228, 43931), (232, 43895), (237, 43859), (240, 43844), (242, 43835), (243, 43832), (246, 43820), (251, 43802), (252, 43799), (254, 43781), (261, 43763), (263, 43751), (268, 43724), (273, 43691), (277, 43670), (278, 43661), (281, 43616), (282, 43610), (283, 43601), (285, 43580), (289, 43547), (310, 43508), (324, 43442), (325, 43439), (345, 43370), (348, 43352), (367, 43268),

Gene: Nozo_49 Start: 45636, Stop: 44023, Start Num: 34

Candidate Starts for Nozo_49:

(14, 45762), (16, 45756), (19, 45741), (Start: 32 @45645 has 9 MA's), (Start: 34 @45636 has 41 MA's), (49, 45540), (Start: 72 @45462 has 8 MA's), (98, 45327), (Start: 135 @45168 has 1 MA's), (141, 45153), (143, 45141), (149, 45111), (158, 45069), (167, 44991), (203, 44859), (210, 44826), (213, 44817), (231, 44724), (237, 44676), (240, 44661), (242, 44652), (251, 44619), (256, 44592), (263, 44568), (278, 44478), (289, 44367), (307, 44334), (308, 44331), (311, 44316), (317, 44295), (324, 44262),

Gene: Numberten_51 Start: 45246, Stop: 43843, Start Num: 74

Candidate Starts for Numberten_51:

(36, 45411), (Start: 74 @45246 has 212 MA's), (Start: 76 @45243 has 65 MA's), (Start: 77 @45237 has 1 MA's), (84, 45195), (97, 45123), (Start: 105 @45102 has 5 MA's), (Start: 135 @45006 has 1 MA's), (149, 44955), (161, 44889), (162, 44886), (167, 44835), (182, 44769), (186, 44757), (196, 44721), (213, 44676), (220, 44646), (227, 44607), (232, 44568), (236, 44535), (237, 44532), (242, 44508), (251, 44475), (254, 44454), (263, 44424), (279, 44310), (283, 44268), (285, 44247), (289, 44214), (307, 44142), (310, 44136), (320, 44088), (331, 44043), (338, 44019), (343, 44004), (348, 43980),

Gene: Nyala_50 Start: 44945, Stop: 43542, Start Num: 74

Candidate Starts for Nyala_50:

(10, 45323), (12, 45278), (18, 45236), (26, 45155), (36, 45110), (Start: 74 @44945 has 212 MA's), (Start: 76 @44942 has 65 MA's), (Start: 77 @44936 has 1 MA's), (84, 44894), (97, 44822), (Start: 105 @44801 has 5 MA's), (Start: 135 @44705 has 1 MA's), (149, 44654), (161, 44588), (162, 44585), (167, 44534), (182, 44468), (186, 44456), (196, 44420), (213, 44375), (220, 44345), (227, 44306), (232, 44267), (236, 44234), (237, 44231), (242, 44207), (251, 44174), (254, 44153), (263, 44123), (279, 44009), (283, 43967), (285, 43946), (289, 43913), (307, 43841), (310, 43835), (320, 43787), (331, 43742), (338, 43718), (343, 43703), (348, 43679),

Gene: OSmaximus_52 Start: 45419, Stop: 44016, Start Num: 74

Candidate Starts for OSmaximus_52:

(36, 45584), (Start: 74 @45419 has 212 MA's), (Start: 76 @45416 has 65 MA's), (Start: 77 @45410 has 1 MA's), (84, 45368), (97, 45296), (Start: 105 @45275 has 5 MA's), (Start: 135 @45179 has 1 MA's), (149, 45128), (161, 45062), (162, 45059), (167, 45008), (182, 44942), (186, 44930), (196, 44894), (213, 44849), (220, 44819), (227, 44780), (232, 44741), (236, 44708), (237, 44705), (242, 44681), (251, 44648), (254, 44627), (263, 44597), (279, 44483), (283, 44441), (285, 44420), (289, 44387), (307, 44315), (310, 44309), (320, 44261), (331, 44216), (338, 44192), (343, 44177), (348, 44153),

Gene: Obutu_49 Start: 44861, Stop: 43248, Start Num: 34

Candidate Starts for Obutu_49:

(14, 44987), (16, 44981), (19, 44966), (Start: 32 @44870 has 9 MA's), (Start: 34 @44861 has 41 MA's), (49, 44765), (Start: 72 @44687 has 8 MA's), (98, 44552), (Start: 135 @44393 has 1 MA's), (141, 44378), (143, 44366), (149, 44336), (158, 44294), (167, 44216), (203, 44084), (210, 44051), (213, 44042), (231, 43949), (237, 43901), (240, 43886), (242, 43877), (251, 43844), (256, 43817), (263, 43793), (278, 43703), (289, 43592), (307, 43559), (311, 43541), (317, 43520), (324, 43487),

Gene: Olak_50 Start: 44948, Stop: 43545, Start Num: 74

Candidate Starts for Olak_50:

(10, 45326), (12, 45281), (18, 45239), (26, 45158), (36, 45113), (Start: 74 @44948 has 212 MA's), (Start: 76 @44945 has 65 MA's), (Start: 77 @44939 has 1 MA's), (84, 44897), (97, 44825), (Start: 105 @44804 has 5 MA's), (Start: 135 @44708 has 1 MA's), (149, 44657), (161, 44591), (162, 44588), (167, 44537), (182, 44471), (186, 44459), (196, 44423), (213, 44378), (220, 44348), (227, 44309), (232, 44270), (236, 44237), (237, 44234), (242, 44210), (251, 44177), (254, 44156), (263, 44126), (279, 44012), (283, 43970), (285, 43949), (289, 43916), (307, 43844), (310, 43838), (320, 43790), (331, 43745), (338, 43721), (343, 43706), (348, 43682),

Gene: Oline_50 Start: 44808, Stop: 43405, Start Num: 74

Candidate Starts for Oline_50:

(36, 44973), (Start: 74 @44808 has 212 MA's), (Start: 76 @44805 has 65 MA's), (Start: 77 @44799 has 1 MA's), (84, 44757), (97, 44685), (Start: 105 @44664 has 5 MA's), (Start: 135 @44568 has 1

MA's), (149, 44517), (161, 44451), (162, 44448), (167, 44397), (182, 44331), (186, 44319), (196, 44283), (213, 44238), (220, 44208), (227, 44169), (232, 44130), (236, 44097), (237, 44094), (239, 44088), (242, 44070), (251, 44037), (254, 44016), (263, 43986), (279, 43872), (283, 43830), (285, 43809), (289, 43776), (307, 43704), (310, 43698), (320, 43650), (331, 43605), (338, 43581), (343, 43566), (348, 43542),

Gene: Olive_51 Start: 45235, Stop: 43832, Start Num: 74

Candidate Starts for Olive_51:

(10, 45613), (12, 45568), (18, 45526), (26, 45445), (36, 45400), (Start: 74 @45235 has 212 MA's), (Start: 76 @45232 has 65 MA's), (Start: 77 @45226 has 1 MA's), (84, 45184), (97, 45112), (Start: 105 @45091 has 5 MA's), (Start: 135 @44995 has 1 MA's), (149, 44944), (161, 44878), (162, 44875), (167, 44824), (182, 44758), (186, 44746), (196, 44710), (213, 44665), (220, 44635), (227, 44596), (232, 44557), (236, 44524), (237, 44521), (242, 44497), (251, 44464), (254, 44443), (263, 44413), (279, 44299), (283, 44257), (285, 44236), (289, 44203), (307, 44131), (310, 44125), (320, 44077), (331, 44032), (338, 44008), (343, 43993), (348, 43969),

Gene: OliverWalter_51 Start: 45257, Stop: 43854, Start Num: 74

Candidate Starts for OliverWalter_51:

(36, 45422), (Start: 74 @45257 has 212 MA's), (Start: 76 @45254 has 65 MA's), (Start: 77 @45248 has 1 MA's), (84, 45206), (97, 45134), (Start: 105 @45113 has 5 MA's), (Start: 135 @45017 has 1 MA's), (149, 44966), (161, 44900), (162, 44897), (165, 44873), (167, 44846), (182, 44780), (186, 44768), (196, 44732), (213, 44687), (220, 44657), (227, 44618), (232, 44579), (236, 44546), (237, 44543), (242, 44519), (251, 44486), (254, 44465), (263, 44435), (279, 44321), (283, 44279), (285, 44258), (289, 44225), (307, 44153), (310, 44147), (320, 44099), (331, 44054), (338, 44030), (343, 44015), (348, 43991),

Gene: Omniscient_51 Start: 45254, Stop: 43851, Start Num: 74

Candidate Starts for Omniscient_51:

(36, 45419), (Start: 74 @45254 has 212 MA's), (Start: 76 @45251 has 65 MA's), (Start: 77 @45245 has 1 MA's), (84, 45203), (97, 45131), (Start: 105 @45110 has 5 MA's), (Start: 135 @45014 has 1 MA's), (149, 44963), (161, 44897), (162, 44894), (165, 44870), (167, 44843), (182, 44777), (186, 44765), (196, 44729), (213, 44684), (220, 44654), (227, 44615), (232, 44576), (236, 44543), (237, 44540), (242, 44516), (251, 44483), (254, 44462), (263, 44432), (279, 44318), (283, 44276), (285, 44255), (289, 44222), (307, 44150), (310, 44144), (320, 44096), (331, 44051), (338, 44027), (343, 44012), (348, 43988),

Gene: Oosterbaan_51 Start: 45239, Stop: 43839, Start Num: 76

Candidate Starts for Oosterbaan_51:

(36, 45407), (Start: 74 @45242 has 212 MA's), (Start: 76 @45239 has 65 MA's), (Start: 77 @45233 has 1 MA's), (84, 45191), (97, 45119), (Start: 105 @45098 has 5 MA's), (Start: 135 @45002 has 1 MA's), (149, 44951), (161, 44885), (162, 44882), (167, 44831), (182, 44765), (186, 44753), (196, 44717), (213, 44672), (220, 44642), (227, 44603), (232, 44564), (236, 44531), (237, 44528), (242, 44504), (251, 44471), (254, 44450), (263, 44420), (279, 44306), (283, 44264), (285, 44243), (289, 44210), (307, 44138), (310, 44132), (320, 44084), (331, 44039), (338, 44015), (343, 44000), (348, 43976),

Gene: Opia_50 Start: 44866, Stop: 43499, Start Num: 76

Candidate Starts for Opia_50:

(Start: 76 @44866 has 65 MA's), (86, 44803), (88, 44788), (117, 44677), (134, 44626), (148, 44578), (156, 44530), (179, 44389), (182, 44380), (205, 44335), (207, 44329), (208, 44323), (213, 44311), (232, 44206), (236, 44173), (240, 44155), (242, 44146), (251, 44113), (256, 44086), (263, 44062), (268, 44035), (271, 44008), (280, 43933), (285, 43888), (289, 43855), (297, 43834), (305, 43828), (315, 43795), (316, 43786), (318, 43777), (361, 43615), (364, 43597), (372, 43540),

Gene: OrangeOswald_49 Start: 44877, Stop: 43264, Start Num: 34

Candidate Starts for OrangeOswald_49:

(14, 45003), (16, 44997), (19, 44982), (Start: 32 @44886 has 9 MA's), (Start: 34 @44877 has 41 MA's), (49, 44781), (Start: 72 @44703 has 8 MA's), (98, 44568), (Start: 135 @44409 has 1 MA's), (141, 44394), (143, 44382), (149, 44352), (158, 44310), (167, 44232), (203, 44100), (210, 44067), (213, 44058), (231, 43965), (237, 43917), (240, 43902), (242, 43893), (251, 43860), (256, 43833), (263, 43809), (278, 43719), (289, 43608), (307, 43575), (308, 43572), (311, 43557), (317, 43536), (324, 43503),

Gene: Orfeu_50 Start: 44938, Stop: 43538, Start Num: 76

Candidate Starts for Orfeu_50:

(10, 45319), (12, 45274), (18, 45232), (26, 45151), (36, 45106), (Start: 74 @44941 has 212 MA's), (Start: 76 @44938 has 65 MA's), (Start: 77 @44932 has 1 MA's), (84, 44890), (97, 44818), (Start: 105 @44797 has 5 MA's), (Start: 135 @44701 has 1 MA's), (149, 44650), (161, 44584), (162, 44581), (167, 44530), (182, 44464), (186, 44452), (196, 44416), (213, 44371), (220, 44341), (227, 44302), (232, 44263), (236, 44230), (237, 44227), (242, 44203), (251, 44170), (254, 44149), (263, 44119), (279, 44005), (283, 43963), (285, 43942), (289, 43909), (307, 43837), (310, 43831), (320, 43783), (331, 43738), (338, 43714), (343, 43699), (348, 43675),

Gene: Orion_52 Start: 45372, Stop: 43972, Start Num: 76

Candidate Starts for Orion_52:

(10, 45753), (12, 45708), (18, 45666), (26, 45585), (36, 45540), (Start: 74 @45375 has 212 MA's), (Start: 76 @45372 has 65 MA's), (Start: 77 @45366 has 1 MA's), (84, 45324), (97, 45252), (Start: 105 @45231 has 5 MA's), (Start: 135 @45135 has 1 MA's), (149, 45084), (161, 45018), (162, 45015), (167, 44964), (182, 44898), (186, 44886), (196, 44850), (213, 44805), (220, 44775), (227, 44736), (232, 44697), (236, 44664), (237, 44661), (242, 44637), (251, 44604), (254, 44583), (263, 44553), (279, 44439), (283, 44397), (285, 44376), (289, 44343), (307, 44271), (310, 44265), (320, 44217), (331, 44172), (338, 44148), (343, 44133), (348, 44109),

Gene: Orwigg_52 Start: 44941, Stop: 43538, Start Num: 74

Candidate Starts for Orwigg_52:

(36, 45106), (Start: 74 @44941 has 212 MA's), (Start: 76 @44938 has 65 MA's), (Start: 77 @44932 has 1 MA's), (84, 44890), (97, 44818), (Start: 105 @44797 has 5 MA's), (Start: 135 @44701 has 1 MA's), (149, 44650), (161, 44584), (162, 44581), (167, 44530), (182, 44464), (186, 44452), (196, 44416), (213, 44371), (220, 44341), (227, 44302), (232, 44263), (236, 44230), (237, 44227), (242, 44203), (251, 44170), (254, 44149), (263, 44119), (279, 44005), (283, 43963), (285, 43942), (289, 43909), (307, 43837), (310, 43831), (320, 43783), (331, 43738), (338, 43714), (343, 43699), (348, 43675),

Gene: PG1_52 Start: 45388, Stop: 43985, Start Num: 74

Candidate Starts for PG1_52:

(36, 45553), (Start: 74 @45388 has 212 MA's), (Start: 76 @45385 has 65 MA's), (Start: 77 @45379 has 1 MA's), (84, 45337), (97, 45265), (Start: 105 @45244 has 5 MA's), (Start: 135 @45148 has 1 MA's), (149, 45097), (161, 45031), (162, 45028), (165, 45004), (167, 44977), (182, 44911), (186, 44899), (196, 44863), (213, 44818), (220, 44788), (227, 44749), (232, 44710), (236, 44677), (237, 44674), (242, 44650), (251, 44617), (254, 44596), (263, 44566), (279, 44452), (283, 44410), (285, 44389), (289, 44356), (307, 44284), (310, 44278), (320, 44230), (331, 44185), (338, 44161), (343, 44146), (348, 44122),

Gene: Pacifista_50 Start: 44944, Stop: 43541, Start Num: 74

Candidate Starts for Pacifista_50:

(10, 45322), (12, 45277), (18, 45235), (26, 45154), (36, 45109), (Start: 74 @44944 has 212 MA's), (Start: 76 @44941 has 65 MA's), (Start: 77 @44935 has 1 MA's), (84, 44893), (97, 44821), (Start: 105 @44800 has 5 MA's), (Start: 135 @44704 has 1 MA's), (149, 44653), (161, 44587), (162, 44584), (167, 44533), (182, 44467), (186, 44455), (196, 44419), (213, 44374), (220, 44344), (227, 44305), (232, 44266), (236, 44233), (237, 44230), (242, 44206), (251, 44173), (254, 44152), (263, 44122), (279, 44008), (283, 43966), (285, 43945), (289, 43912), (307, 43840), (310, 43834), (320, 43786), (331, 43741), (338, 43717), (343, 43702), (348, 43678),

Gene: PenguinLover67_52 Start: 47634, Stop: 46015, Start Num: 17

Candidate Starts for PenguinLover67_52:

(Start: 17 @47634 has 1 MA's), (28, 47547), (31, 47535), (48, 47424), (50, 47418), (Start: 74 @47352 has 212 MA's), (Start: 135 @47124 has 1 MA's), (140, 47115), (164, 46983), (191, 46854), (224, 46752), (235, 46674), (237, 46665), (240, 46650), (243, 46638), (263, 46557), (268, 46530), (276, 46479), (278, 46467), (279, 46449), (307, 46320), (320, 46266), (324, 46248), (338, 46197), (372, 46038),

Gene: Phaedrus_47 Start: 44797, Stop: 43184, Start Num: 34

Candidate Starts for Phaedrus_47:

(14, 44926), (16, 44920), (19, 44905), (Start: 32 @44806 has 9 MA's), (Start: 34 @44797 has 41 MA's), (49, 44701), (Start: 72 @44623 has 8 MA's), (98, 44488), (Start: 135 @44329 has 1 MA's), (141, 44314), (143, 44302), (149, 44272), (158, 44230), (167, 44152), (203, 44020), (210, 43987), (213, 43978), (231, 43885), (237, 43837), (240, 43822), (242, 43813), (256, 43753), (263, 43729), (278, 43639), (289, 43528), (307, 43495), (308, 43492), (311, 43477), (317, 43456), (324, 43423),

Gene: Phamished_52 Start: 45395, Stop: 43992, Start Num: 74

Candidate Starts for Phamished_52:

(10, 45773), (12, 45728), (18, 45686), (26, 45605), (36, 45560), (Start: 74 @45395 has 212 MA's), (Start: 76 @45392 has 65 MA's), (Start: 77 @45386 has 1 MA's), (84, 45344), (97, 45272), (Start: 105 @45251 has 5 MA's), (Start: 135 @45155 has 1 MA's), (149, 45104), (161, 45038), (162, 45035), (167, 44984), (182, 44918), (186, 44906), (196, 44870), (213, 44825), (220, 44795), (227, 44756), (232, 44717), (236, 44684), (237, 44681), (242, 44657), (251, 44624), (254, 44603), (263, 44573), (279, 44459), (283, 44417), (285, 44396), (289, 44363), (307, 44291), (310, 44285), (320, 44237), (331, 44192), (338, 44168), (343, 44153), (348, 44129),

Gene: Phantasmagoria_50 Start: 44864, Stop: 43497, Start Num: 76

Candidate Starts for Phantasmagoria_50:

(Start: 76 @44864 has 65 MA's), (86, 44801), (88, 44786), (117, 44675), (134, 44624), (148, 44576), (156, 44528), (179, 44387), (182, 44378), (205, 44333), (207, 44327), (208, 44321), (213, 44309), (232, 44204), (236, 44171), (242, 44144), (251, 44111), (256, 44084), (263, 44060), (268, 44033), (271, 44006), (280, 43931), (285, 43886), (289, 43853), (297, 43832), (305, 43826), (315, 43793), (316, 43784), (318, 43775), (361, 43613), (364, 43595), (372, 43538),

Gene: Phareon_51 Start: 44943, Stop: 43540, Start Num: 74

Candidate Starts for Phareon_51:

(36, 45108), (Start: 74 @44943 has 212 MA's), (Start: 76 @44940 has 65 MA's), (Start: 77 @44934 has 1 MA's), (84, 44892), (97, 44820), (Start: 105 @44799 has 5 MA's), (Start: 135 @44703 has 1 MA's), (149, 44652), (161, 44586), (162, 44583), (167, 44532), (182, 44466), (186, 44454), (196, 44418), (213, 44373), (220, 44343), (227, 44304), (232, 44265), (236, 44232), (237, 44229), (242, 44205), (251, 44172), (254, 44151), (263, 44121), (279, 44007), (283, 43965), (285, 43944), (289, 43911), (307, 43839), (310, 43833), (320, 43785), (331, 43740), (338, 43716), (343, 43701), (348, 43677),

Gene: PhatCats2014_52 Start: 45389, Stop: 43989, Start Num: 76

Candidate Starts for PhatCats2014_52:

(10, 45770), (12, 45725), (18, 45683), (26, 45602), (36, 45557), (Start: 74 @45392 has 212 MA's), (Start: 76 @45389 has 65 MA's), (Start: 77 @45383 has 1 MA's), (84, 45341), (97, 45269), (Start: 105 @45248 has 5 MA's), (Start: 135 @45152 has 1 MA's), (149, 45101), (161, 45035), (162, 45032), (167, 44981), (182, 44915), (186, 44903), (196, 44867), (213, 44822), (220, 44792), (227, 44753), (232, 44714), (236, 44681), (237, 44678), (242, 44654), (251, 44621), (254, 44600), (263, 44570), (279, 44456), (283, 44414), (285, 44393), (289, 44360), (307, 44288), (310, 44282), (320, 44234), (331, 44189), (338, 44165), (343, 44150), (348, 44126),

Gene: PhatLouie_51 Start: 45243, Stop: 43843, Start Num: 76

Candidate Starts for PhatLouie_51:

(36, 45411), (Start: 74 @45246 has 212 MA's), (Start: 76 @45243 has 65 MA's), (Start: 77 @45237 has 1 MA's), (84, 45195), (97, 45123), (Start: 105 @45102 has 5 MA's), (Start: 135 @45006 has 1 MA's), (149, 44955), (161, 44889), (162, 44886), (165, 44862), (167, 44835), (182, 44769), (186, 44757), (196, 44721), (213, 44676), (220, 44646), (227, 44607), (232, 44568), (236, 44535), (237, 44532), (242, 44508), (251, 44475), (254, 44454), (263, 44424), (279, 44310), (283, 44268), (285, 44247), (289, 44214), (307, 44142), (310, 44136), (320, 44088), (331, 44043), (338, 44019), (343, 44004), (348, 43980),

Gene: Phayeta_50 Start: 44752, Stop: 43130, Start Num: 32

Candidate Starts for Phayeta_50:

(14, 44869), (16, 44863), (19, 44848), (Start: 32 @44752 has 9 MA's), (Start: 34 @44743 has 41 MA's), (49, 44647), (Start: 72 @44569 has 8 MA's), (98, 44434), (Start: 135 @44275 has 1 MA's), (141, 44260), (143, 44248), (149, 44218), (158, 44176), (167, 44098), (203, 43966), (210, 43933), (213, 43924), (231, 43831), (237, 43783), (240, 43768), (242, 43759), (251, 43726), (256, 43699), (263, 43675), (278, 43585), (289, 43474), (307, 43441), (311, 43423), (317, 43402), (324, 43369),

Gene: Phelemich_49 Start: 46254, Stop: 44887, Start Num: 79

Candidate Starts for Phelemich_49:

(36, 46425), (Start: 72 @46272 has 8 MA's), (Start: 79 @46254 has 2 MA's), (83, 46224), (Start: 135 @46035 has 1 MA's), (143, 46008), (144, 46005), (184, 45798), (189, 45780), (224, 45663), (233, 45600), (237, 45576), (240, 45561), (256, 45492), (263, 45468), (264, 45465), (281, 45333), (283, 45321), (285, 45300), (289, 45267), (291, 45249), (307, 45195), (318, 45150), (324, 45123), (345, 45042), (355, 45003), (358, 44997), (364, 44961),

Gene: PhenghisKhan_50 Start: 44867, Stop: 43464, Start Num: 74

Candidate Starts for PhenghisKhan_50:

(36, 45032), (Start: 74 @44867 has 212 MA's), (Start: 76 @44864 has 65 MA's), (Start: 77 @44858 has 1 MA's), (84, 44816), (97, 44744), (Start: 105 @44723 has 5 MA's), (Start: 135 @44627 has 1 MA's), (149, 44576), (161, 44510), (162, 44507), (167, 44456), (182, 44390), (186, 44378), (196, 44342), (213, 44297), (220, 44267), (227, 44228), (232, 44189), (236, 44156), (237, 44153), (239, 44147), (242, 44129), (251, 44096), (254, 44075), (263, 44045), (279, 43931), (283, 43889), (285, 43868), (289, 43835), (307, 43763), (310, 43757), (320, 43709), (331, 43664), (338, 43640), (343, 43625), (348, 43601),

Gene: Pherdinand_52 Start: 45404, Stop: 44001, Start Num: 74

Candidate Starts for Pherdinand_52:

(Start: 74 @45404 has 212 MA's), (Start: 76 @45401 has 65 MA's), (Start: 77 @45395 has 1 MA's), (84, 45353), (97, 45281), (Start: 105 @45260 has 5 MA's), (Start: 135 @45164 has 1 MA's), (149, 45113), (161, 45047), (162, 45044), (167, 44993), (182, 44927), (186, 44915), (196, 44879), (213, 44834), (220, 44804), (227, 44765), (232, 44726), (236, 44693), (237, 44690), (242, 44666), (251, 44633), (254, 44612), (263, 44582), (279, 44468), (283, 44426), (285, 44405), (289, 44372), (307, 44300), (310, 44294), (320, 44246), (331, 44201), (338, 44177), (343, 44162), (348, 44138),

Gene: Phergie_51 Start: 44859, Stop: 43456, Start Num: 74

Candidate Starts for Phergie_51:

(36, 45024), (Start: 74 @44859 has 212 MA's), (Start: 76 @44856 has 65 MA's), (Start: 77 @44850 has 1 MA's), (84, 44808), (97, 44736), (Start: 105 @44715 has 5 MA's), (Start: 135 @44619 has 1 MA's), (149, 44568), (161, 44502), (162, 44499), (167, 44448), (182, 44382), (186, 44370), (196, 44334), (213, 44289), (220, 44259), (227, 44220), (232, 44181), (236, 44148), (237, 44145), (239, 44139), (242, 44121), (251, 44088), (254, 44067), (263, 44037), (279, 43923), (283, 43881), (285, 43860), (289, 43827), (307, 43755), (310, 43749), (320, 43701), (331, 43656), (338, 43632), (343, 43617), (348, 43593),

Gene: Philly_48 Start: 44728, Stop: 43115, Start Num: 34

Candidate Starts for Philly_48:

(14, 44854), (16, 44848), (19, 44833), (Start: 32 @44737 has 9 MA's), (Start: 34 @44728 has 41 MA's), (49, 44632), (Start: 72 @44554 has 8 MA's), (98, 44419), (Start: 135 @44260 has 1 MA's), (141, 44245), (143, 44233), (149, 44203), (158, 44161), (167, 44083), (203, 43951), (210, 43918), (213, 43909), (231, 43816), (237, 43768), (240, 43753), (242, 43744), (251, 43711), (256, 43684), (263, 43660), (278, 43570), (289, 43459), (307, 43426), (308, 43423), (311, 43408), (317, 43387), (324, 43354),

Gene: Phipps_51 Start: 45223, Stop: 43820, Start Num: 74

Candidate Starts for Phipps_51:

(10, 45601), (12, 45556), (18, 45514), (26, 45433), (36, 45388), (Start: 74 @45223 has 212 MA's), (Start: 76 @45220 has 65 MA's), (Start: 77 @45214 has 1 MA's), (84, 45172), (97, 45100), (Start: 105 @45079 has 5 MA's), (Start: 135 @44983 has 1 MA's), (149, 44932), (161, 44866), (162, 44863), (167, 44812), (182, 44746), (186, 44734), (196, 44698), (213, 44653), (220, 44623), (227, 44584), (232, 44545), (236, 44512), (237, 44509), (242, 44485), (251, 44452), (254, 44431), (263, 44401), (279, 44287), (283, 44245), (285, 44224), (289, 44191), (307, 44119), (310, 44113), (320, 44065), (331, 44020), (338, 43996), (343, 43981), (348, 43957),

Gene: Phleuron_50 Start: 44864, Stop: 43461, Start Num: 74

Candidate Starts for Phleuron_50:

(36, 45029), (Start: 74 @44864 has 212 MA's), (Start: 76 @44861 has 65 MA's), (Start: 77 @44855 has 1 MA's), (84, 44813), (97, 44741), (Start: 105 @44720 has 5 MA's), (Start: 135 @44624 has 1 MA's), (149, 44573), (161, 44507), (162, 44504), (167, 44453), (182, 44387), (186, 44375), (196, 44339), (213, 44294), (220, 44264), (227, 44225), (232, 44186), (236, 44153), (237, 44150), (239, 44144), (242, 44126), (251, 44093), (254, 44072), (263, 44042), (279, 43928), (283, 43886), (285, 43865), (289, 43832), (307, 43760), (310, 43754), (320, 43706), (331, 43661), (338, 43637), (343, 43622), (348, 43598),

Gene: Phlyer_49 Start: 45617, Stop: 44004, Start Num: 34

Candidate Starts for Phlyer_49:

(14, 45743), (16, 45737), (19, 45722), (Start: 32 @45626 has 9 MA's), (Start: 34 @45617 has 41 MA's), (49, 45521), (Start: 72 @45443 has 8 MA's), (98, 45308), (Start: 135 @45149 has 1 MA's), (141, 45134), (143, 45122), (149, 45092), (158, 45050), (167, 44972), (203, 44840), (210, 44807), (213, 44798), (231, 44705), (237, 44657), (240, 44642), (242, 44633), (256, 44573), (263, 44549), (278, 44459), (289, 44348), (307, 44315), (308, 44312), (311, 44297), (317, 44276), (324, 44243),

Gene: PhrankReynolds_49 Start: 44864, Stop: 43461, Start Num: 74

Candidate Starts for PhrankReynolds_49:

(36, 45029), (Start: 74 @44864 has 212 MA's), (Start: 76 @44861 has 65 MA's), (Start: 77 @44855 has 1 MA's), (84, 44813), (97, 44741), (Start: 105 @44720 has 5 MA's), (Start: 135 @44624 has 1 MA's), (149, 44573), (161, 44507), (162, 44504), (167, 44453), (182, 44387), (186, 44375), (196,

44339), (213, 44294), (220, 44264), (227, 44225), (232, 44186), (236, 44153), (237, 44150), (239, 44144), (242, 44126), (251, 44093), (254, 44072), (263, 44042), (279, 43928), (283, 43886), (285, 43865), (289, 43832), (307, 43760), (310, 43754), (320, 43706), (331, 43661), (338, 43637), (343, 43622), (348, 43598),

Gene: PhrodoBaggins_51 Start: 45371, Stop: 43968, Start Num: 74

Candidate Starts for PhrodoBaggins_51:

(36, 45536), (Start: 74 @45371 has 212 MA's), (Start: 76 @45368 has 65 MA's), (Start: 77 @45362 has 1 MA's), (84, 45320), (97, 45248), (Start: 105 @45227 has 5 MA's), (Start: 135 @45131 has 1 MA's), (149, 45080), (161, 45014), (162, 45011), (167, 44960), (182, 44894), (186, 44882), (196, 44846), (213, 44801), (220, 44771), (227, 44732), (232, 44693), (236, 44660), (237, 44657), (242, 44633), (251, 44600), (254, 44579), (263, 44549), (279, 44435), (283, 44393), (285, 44372), (289, 44339), (307, 44267), (310, 44261), (320, 44213), (331, 44168), (338, 44144), (343, 44129), (348, 44105),

Gene: Phunky_51 Start: 45240, Stop: 43837, Start Num: 74

Candidate Starts for Phunky_51:

(36, 45405), (Start: 74 @45240 has 212 MA's), (Start: 76 @45237 has 65 MA's), (Start: 77 @45231 has 1 MA's), (84, 45189), (97, 45117), (Start: 105 @45096 has 5 MA's), (Start: 135 @45000 has 1 MA's), (149, 44949), (161, 44883), (162, 44880), (167, 44829), (182, 44763), (186, 44751), (196, 44715), (213, 44670), (220, 44640), (227, 44601), (232, 44562), (236, 44529), (237, 44526), (242, 44502), (251, 44469), (254, 44448), (263, 44418), (279, 44304), (283, 44262), (285, 44241), (289, 44208), (307, 44136), (310, 44130), (320, 44082), (331, 44037), (338, 44013), (343, 43998), (348, 43974),

Gene: Piglet_0051 Start: 45365, Stop: 43962, Start Num: 74

Candidate Starts for Piglet_0051:

(36, 45530), (Start: 74 @45365 has 212 MA's), (Start: 76 @45362 has 65 MA's), (Start: 77 @45356 has 1 MA's), (84, 45314), (97, 45242), (Start: 105 @45221 has 5 MA's), (Start: 135 @45125 has 1 MA's), (149, 45074), (161, 45008), (162, 45005), (165, 44981), (167, 44954), (182, 44888), (186, 44876), (196, 44840), (213, 44795), (220, 44765), (227, 44726), (232, 44687), (236, 44654), (237, 44651), (242, 44627), (251, 44594), (254, 44573), (263, 44543), (279, 44429), (283, 44387), (285, 44366), (289, 44333), (307, 44261), (310, 44255), (320, 44207), (331, 44162), (338, 44138), (343, 44123), (348, 44099),

Gene: Pine5_42 Start: 35716, Stop: 34616, Start Num: 132

Candidate Starts for Pine5_42:

(Start: 132 @35716 has 1 MA's), (167, 35521), (192, 35425), (223, 35359), (226, 35350), (229, 35326), (246, 35227), (252, 35206), (256, 35182), (272, 35107), (278, 35077), (281, 35032), (285, 34999), (289, 34966), (322, 34822), (325, 34810), (328, 34801), (346, 34768), (350, 34750), (364, 34693), (368, 34663), (375, 34627),

Gene: PinheadLarry_51 Start: 44953, Stop: 43550, Start Num: 71

Candidate Starts for PinheadLarry_51:

(36, 45115), (Start: 71 @44953 has 18 MA's), (Start: 76 @44950 has 65 MA's), (84, 44902), (97, 44830), (Start: 105 @44809 has 5 MA's), (Start: 135 @44713 has 1 MA's), (149, 44662), (161, 44596), (162, 44593), (165, 44569), (167, 44542), (182, 44476), (186, 44464), (196, 44428), (213, 44383), (220, 44353), (227, 44314), (232, 44275), (236, 44242), (237, 44239), (242, 44215), (251, 44182), (254, 44161), (263, 44131), (279, 44017), (283, 43975), (285, 43954), (289, 43921), (307, 43849), (310, 43843), (320, 43795), (331, 43750), (338, 43726), (343, 43711), (348, 43687),

Gene: Pinkman_50 Start: 44802, Stop: 43399, Start Num: 74

Candidate Starts for Pinkman_50:

(10, 45180), (12, 45135), (18, 45093), (26, 45012), (36, 44967), (Start: 74 @44802 has 212 MA's), (Start: 76 @44799 has 65 MA's), (Start: 77 @44793 has 1 MA's), (84, 44751), (97, 44679), (Start: 105 @44658 has 5 MA's), (Start: 135 @44562 has 1 MA's), (149, 44511), (161, 44445), (162, 44442), (167, 44391), (182, 44325), (186, 44313), (196, 44277), (213, 44232), (220, 44202), (227, 44163), (232, 44124), (236, 44091), (237, 44088), (239, 44082), (242, 44064), (251, 44031), (254, 44010), (263, 43980), (279, 43866), (283, 43824), (285, 43803), (289, 43770), (307, 43698), (310, 43692), (320, 43644), (331, 43599), (338, 43575), (343, 43560), (348, 43536),

Gene: Pipefish_51 Start: 46266, Stop: 44656, Start Num: 34

Candidate Starts for Pipefish_51:

(14, 46392), (16, 46386), (19, 46371), (Start: 32 @46275 has 9 MA's), (Start: 34 @46266 has 41 MA's), (49, 46170), (Start: 72 @46092 has 8 MA's), (96, 45969), (98, 45957), (108, 45933), (112, 45918), (Start: 135 @45801 has 1 MA's), (141, 45786), (143, 45774), (149, 45744), (158, 45702), (167, 45624), (203, 45492), (210, 45459), (213, 45450), (231, 45357), (237, 45309), (240, 45294), (242, 45285), (251, 45252), (256, 45225), (263, 45201), (278, 45111), (289, 45000), (307, 44967), (308, 44964), (311, 44949), (317, 44928), (324, 44895),

Gene: Pipsqueak_51 Start: 45247, Stop: 43844, Start Num: 74

Candidate Starts for Pipsqueak_51:

(10, 45625), (12, 45580), (18, 45538), (26, 45457), (36, 45412), (Start: 74 @45247 has 212 MA's), (Start: 76 @45244 has 65 MA's), (Start: 77 @45238 has 1 MA's), (84, 45196), (97, 45124), (Start: 105 @45103 has 5 MA's), (Start: 135 @45007 has 1 MA's), (149, 44956), (161, 44890), (162, 44887), (167, 44836), (182, 44770), (186, 44758), (196, 44722), (213, 44677), (220, 44647), (227, 44608), (232, 44569), (236, 44536), (237, 44533), (242, 44509), (251, 44476), (254, 44455), (263, 44425), (279, 44311), (283, 44269), (285, 44248), (289, 44215), (307, 44143), (310, 44137), (320, 44089), (331, 44044), (338, 44020), (343, 44005), (348, 43981),

Gene: Placalicious_50 Start: 44940, Stop: 43537, Start Num: 74

Candidate Starts for Placalicious_50:

(36, 45105), (Start: 74 @44940 has 212 MA's), (Start: 76 @44937 has 65 MA's), (Start: 77 @44931 has 1 MA's), (84, 44889), (97, 44817), (Start: 105 @44796 has 5 MA's), (Start: 135 @44700 has 1 MA's), (149, 44649), (161, 44583), (162, 44580), (165, 44556), (167, 44529), (182, 44463), (186, 44451), (196, 44415), (213, 44370), (220, 44340), (227, 44301), (232, 44262), (236, 44229), (237, 44226), (242, 44202), (251, 44169), (254, 44148), (263, 44118), (279, 44004), (283, 43962), (285, 43941), (289, 43908), (307, 43836), (310, 43830), (320, 43782), (331, 43737), (338, 43713), (343, 43698), (348, 43674),

Gene: Plmatters_51 Start: 45243, Stop: 43840, Start Num: 74

Candidate Starts for Plmatters_51:

(36, 45408), (Start: 74 @45243 has 212 MA's), (Start: 76 @45240 has 65 MA's), (Start: 77 @45234 has 1 MA's), (84, 45192), (97, 45120), (Start: 105 @45099 has 5 MA's), (Start: 135 @45003 has 1 MA's), (149, 44952), (161, 44886), (162, 44883), (167, 44832), (182, 44766), (186, 44754), (196, 44718), (213, 44673), (220, 44643), (227, 44604), (232, 44565), (236, 44532), (237, 44529), (242, 44505), (251, 44472), (254, 44451), (263, 44421), (279, 44307), (283, 44265), (285, 44244), (289, 44211), (307, 44139), (310, 44133), (320, 44085), (331, 44040), (338, 44016), (343, 44001), (348, 43977),

Gene: Podrick_51 Start: 45234, Stop: 43831, Start Num: 74

Candidate Starts for Podrick_51:

(10, 45612), (12, 45567), (18, 45525), (26, 45444), (36, 45399), (Start: 74 @45234 has 212 MA's), (Start: 76 @45231 has 65 MA's), (Start: 77 @45225 has 1 MA's), (84, 45183), (97, 45111), (Start: 105 @45090 has 5 MA's), (Start: 135 @44994 has 1 MA's), (149, 44943), (161, 44877), (162, 44874), (167, 44823), (182, 44757), (186, 44745), (196, 44709), (213, 44664), (220, 44634), (227, 44595), (232,

44556), (236, 44523), (237, 44520), (242, 44496), (251, 44463), (254, 44442), (263, 44412), (279, 44298), (283, 44256), (285, 44235), (289, 44202), (307, 44130), (310, 44124), (320, 44076), (331, 44031), (338, 44007), (343, 43992), (348, 43968),

Gene: Pops_51 Start: 45258, Stop: 43855, Start Num: 74

Candidate Starts for Pops_51:

(10, 45636), (12, 45591), (18, 45549), (26, 45468), (36, 45423), (Start: 74 @45258 has 212 MA's), (Start: 76 @45255 has 65 MA's), (Start: 77 @45249 has 1 MA's), (84, 45207), (97, 45135), (Start: 105 @45114 has 5 MA's), (Start: 135 @45018 has 1 MA's), (149, 44967), (161, 44901), (162, 44898), (165, 44874), (167, 44847), (182, 44781), (186, 44769), (196, 44733), (213, 44688), (220, 44658), (227, 44619), (232, 44580), (236, 44547), (237, 44544), (242, 44520), (251, 44487), (254, 44466), (263, 44436), (279, 44322), (283, 44280), (285, 44259), (289, 44226), (307, 44154), (310, 44148), (320, 44100), (331, 44055), (338, 44031), (343, 44016), (348, 43992),

Gene: Poster_45 Start: 44678, Stop: 43338, Start Num: 73

Candidate Starts for Poster_45:

(Start: 70 @44681 has 9 MA's), (Start: 73 @44678 has 15 MA's), (Start: 77 @44669 has 1 MA's), (78, 44663), (87, 44612), (131, 44465), (149, 44399), (153, 44375), (182, 44213), (188, 44195), (191, 44180), (192, 44177), (204, 44150), (221, 44087), (222, 44078), (235, 43991), (240, 43967), (251, 43925), (252, 43922), (254, 43904), (263, 43874), (268, 43847), (273, 43814), (277, 43793), (278, 43784), (281, 43739), (282, 43733), (283, 43724), (285, 43703), (289, 43670), (310, 43631), (324, 43565), (325, 43562), (345, 43493), (348, 43475),

Gene: Potter_50 Start: 44970, Stop: 43567, Start Num: 74

Candidate Starts for Potter_50:

(10, 45348), (12, 45303), (18, 45261), (26, 45180), (36, 45135), (Start: 74 @44970 has 212 MA's), (Start: 76 @44967 has 65 MA's), (Start: 77 @44961 has 1 MA's), (84, 44919), (97, 44847), (Start: 105 @44826 has 5 MA's), (Start: 135 @44730 has 1 MA's), (149, 44679), (161, 44613), (162, 44610), (167, 44559), (182, 44493), (186, 44481), (196, 44445), (213, 44400), (220, 44370), (227, 44331), (232, 44292), (236, 44259), (237, 44256), (239, 44250), (242, 44232), (251, 44199), (254, 44178), (263, 44148), (279, 44034), (283, 43992), (285, 43971), (289, 43938), (307, 43866), (310, 43860), (320, 43812), (331, 43767), (338, 43743), (343, 43728), (348, 43704),

Gene: Prickles_51 Start: 45234, Stop: 43831, Start Num: 74

Candidate Starts for Prickles_51:

(10, 45612), (12, 45567), (18, 45525), (26, 45444), (36, 45399), (Start: 74 @45234 has 212 MA's), (Start: 76 @45231 has 65 MA's), (Start: 77 @45225 has 1 MA's), (84, 45183), (97, 45111), (Start: 105 @45090 has 5 MA's), (Start: 135 @44994 has 1 MA's), (149, 44943), (161, 44877), (162, 44874), (167, 44823), (182, 44757), (186, 44745), (196, 44709), (213, 44664), (220, 44634), (227, 44595), (232, 44556), (236, 44523), (237, 44520), (242, 44496), (251, 44463), (254, 44442), (263, 44412), (279, 44298), (283, 44256), (285, 44235), (289, 44202), (307, 44130), (310, 44124), (320, 44076), (331, 44031), (338, 44007), (343, 43992), (348, 43968),

Gene: Prince_46 Start: 45887, Stop: 44547, Start Num: 73

Candidate Starts for Prince_46:

(Start: 70 @45890 has 9 MA's), (Start: 73 @45887 has 15 MA's), (Start: 77 @45878 has 1 MA's), (78, 45872), (87, 45821), (131, 45674), (144, 45629), (149, 45608), (171, 45467), (175, 45443), (182, 45422), (183, 45419), (188, 45404), (191, 45389), (218, 45320), (220, 45305), (222, 45287), (228, 45263), (237, 45191), (242, 45167), (251, 45134), (252, 45131), (254, 45113), (263, 45083), (273, 45023), (276, 45005), (278, 44993), (281, 44948), (282, 44942), (283, 44933), (288, 44903), (289, 44879), (310, 44840), (319, 44795), (324, 44774), (325, 44771), (345, 44702), (348, 44684),

Gene: ProfessorX_51 Start: 45235, Stop: 43832, Start Num: 74

Candidate Starts for ProfessorX_51:

(10, 45613), (12, 45568), (18, 45526), (26, 45445), (36, 45400), (Start: 74 @45235 has 212 MA's), (Start: 76 @45232 has 65 MA's), (Start: 77 @45226 has 1 MA's), (84, 45184), (97, 45112), (Start: 105 @45091 has 5 MA's), (Start: 135 @44995 has 1 MA's), (149, 44944), (161, 44878), (162, 44875), (165, 44851), (167, 44824), (182, 44758), (186, 44746), (196, 44710), (213, 44665), (220, 44635), (227, 44596), (232, 44557), (236, 44524), (237, 44521), (242, 44497), (251, 44464), (254, 44443), (263, 44413), (279, 44299), (283, 44257), (285, 44236), (289, 44203), (307, 44131), (310, 44125), (320, 44077), (331, 44032), (338, 44008), (343, 43993), (348, 43969),

Gene: Puhltonio_51 Start: 45244, Stop: 43841, Start Num: 74

Candidate Starts for Puhltonio_51:

(10, 45622), (12, 45577), (18, 45535), (26, 45454), (36, 45409), (Start: 74 @45244 has 212 MA's), (Start: 76 @45241 has 65 MA's), (Start: 77 @45235 has 1 MA's), (84, 45193), (97, 45121), (Start: 105 @45100 has 5 MA's), (Start: 135 @45004 has 1 MA's), (149, 44953), (161, 44887), (162, 44884), (167, 44833), (182, 44767), (186, 44755), (196, 44719), (213, 44674), (220, 44644), (227, 44605), (232, 44566), (236, 44533), (237, 44530), (242, 44506), (251, 44473), (254, 44452), (263, 44422), (279, 44308), (283, 44266), (285, 44245), (289, 44212), (307, 44140), (310, 44134), (320, 44086), (331, 44041), (338, 44017), (343, 44002), (348, 43978),

Gene: Puppies_31 Start: 24982, Stop: 23882, Start Num: 133

Candidate Starts for Puppies_31:

(Start: 133 @24982 has 4 MA's), (138, 24967), (148, 24934), (166, 24805), (173, 24766), (178, 24742), (217, 24670), (238, 24550), (240, 24538), (261, 24442), (278, 24349), (280, 24316), (285, 24271), (286, 24268), (289, 24238), (296, 24217), (298, 24211), (299, 24208), (304, 24166), (319, 24103), (354, 24007), (360, 23992), (363, 23971),

Gene: QueenBeane_51 Start: 45234, Stop: 43831, Start Num: 74

Candidate Starts for QueenBeane_51:

(10, 45612), (12, 45567), (18, 45525), (26, 45444), (36, 45399), (Start: 74 @45234 has 212 MA's), (Start: 76 @45231 has 65 MA's), (Start: 77 @45225 has 1 MA's), (84, 45183), (97, 45111), (Start: 105 @45090 has 5 MA's), (Start: 135 @44994 has 1 MA's), (149, 44943), (161, 44877), (162, 44874), (167, 44823), (182, 44757), (186, 44745), (196, 44709), (213, 44664), (220, 44634), (227, 44595), (232, 44556), (236, 44523), (237, 44520), (242, 44496), (251, 44463), (254, 44442), (263, 44412), (279, 44298), (283, 44256), (285, 44235), (289, 44202), (307, 44130), (310, 44124), (320, 44076), (331, 44031), (338, 44007), (343, 43992), (348, 43968),

Gene: QueenPie_45 Start: 45796, Stop: 44456, Start Num: 73

Candidate Starts for QueenPie_45:

(Start: 70 @45799 has 9 MA's), (Start: 73 @45796 has 15 MA's), (Start: 77 @45787 has 1 MA's), (78, 45781), (131, 45583), (149, 45517), (153, 45493), (167, 45397), (182, 45331), (188, 45313), (191, 45298), (192, 45295), (204, 45268), (221, 45205), (222, 45196), (235, 45109), (237, 45100), (240, 45085), (251, 45043), (252, 45040), (254, 45022), (261, 45004), (263, 44992), (268, 44965), (273, 44932), (277, 44911), (278, 44902), (281, 44857), (282, 44851), (283, 44842), (285, 44821), (289, 44788), (310, 44749), (324, 44683), (325, 44680), (345, 44611), (348, 44593),

Gene: Quesadilla_52 Start: 47383, Stop: 46022, Start Num: 65

Candidate Starts for Quesadilla_52:

(43, 47464), (55, 47407), (Start: 65 @47383 has 1 MA's), (Start: 68 @47380 has 2 MA's), (Start: 77 @47362 has 1 MA's), (Start: 79 @47353 has 2 MA's), (Start: 135 @47131 has 1 MA's), (164, 46990), (182, 46894), (191, 46861), (210, 46822), (224, 46759), (228, 46744), (237, 46672), (240, 46657), (249, 46621), (251, 46615), (254, 46594), (255, 46591), (268, 46537), (270, 46516), (276, 46486), (282, 46423), (285, 46393), (305, 46333), (324, 46255), (325, 46252), (338, 46204), (345, 46183), (364, 46102), (372, 46045),

Gene: Quisquilliae_51 Start: 45271, Stop: 43868, Start Num: 74

Candidate Starts for Quisquilliae_51:

(10, 45649), (12, 45604), (18, 45562), (26, 45481), (36, 45436), (Start: 74 @45271 has 212 MA's), (Start: 76 @45268 has 65 MA's), (Start: 77 @45262 has 1 MA's), (84, 45220), (97, 45148), (Start: 105 @45127 has 5 MA's), (Start: 135 @45031 has 1 MA's), (149, 44980), (161, 44914), (162, 44911), (167, 44860), (182, 44794), (186, 44782), (196, 44746), (213, 44701), (220, 44671), (227, 44632), (232, 44593), (236, 44560), (237, 44557), (242, 44533), (251, 44500), (254, 44479), (263, 44449), (279, 44335), (283, 44293), (285, 44272), (289, 44239), (307, 44167), (310, 44161), (320, 44113), (331, 44068), (338, 44044), (343, 44029), (348, 44005),

Gene: Qyrzula_47 Start: 44983, Stop: 43616, Start Num: 76

Candidate Starts for Qyrzula_47:

(Start: 76 @44983 has 65 MA's), (86, 44920), (88, 44905), (117, 44794), (134, 44743), (148, 44695), (156, 44647), (176, 44512), (179, 44506), (182, 44497), (205, 44452), (207, 44446), (208, 44440), (213, 44428), (232, 44323), (236, 44290), (242, 44263), (251, 44230), (256, 44203), (263, 44179), (268, 44152), (271, 44125), (280, 44050), (285, 44005), (289, 43972), (297, 43951), (305, 43945), (315, 43912), (316, 43903), (318, 43894), (345, 43795), (361, 43732), (364, 43714), (372, 43657),

Gene: RagingRooster_49 Start: 44878, Stop: 43265, Start Num: 34

Candidate Starts for RagingRooster_49:

(14, 45004), (16, 44998), (19, 44983), (Start: 32 @44887 has 9 MA's), (Start: 34 @44878 has 41 MA's), (49, 44782), (Start: 72 @44704 has 8 MA's), (98, 44569), (Start: 135 @44410 has 1 MA's), (141, 44395), (143, 44383), (149, 44353), (158, 44311), (167, 44233), (181, 44167), (182, 44164), (203, 44101), (210, 44068), (213, 44059), (231, 43966), (237, 43918), (238, 43915), (240, 43903), (242, 43894), (256, 43834), (263, 43810), (278, 43720), (289, 43609), (307, 43576), (308, 43573), (311, 43558), (317, 43537), (324, 43504),

Gene: RainyPolka_45 Start: 36140, Stop: 34974, Start Num: 113

Candidate Starts for RainyPolka_45:

(Start: 113 @36140 has 5 MA's), (114, 36131), (126, 36101), (140, 36062), (152, 35996), (154, 35987), (168, 35891), (169, 35885), (178, 35840), (227, 35720), (230, 35702), (240, 35630), (248, 35600), (255, 35564), (256, 35561), (259, 35552), (303, 35282), (305, 35276), (309, 35267), (318, 35222), (323, 35198), (326, 35189), (337, 35141), (344, 35126), (351, 35099), (357, 35081), (372, 34985),

Gene: RawrgerThat_47 Start: 45738, Stop: 44398, Start Num: 73

Candidate Starts for RawrgerThat_47:

(Start: 70 @45741 has 9 MA's), (Start: 73 @45738 has 15 MA's), (Start: 77 @45729 has 1 MA's), (78, 45723), (87, 45672), (131, 45525), (144, 45480), (149, 45459), (171, 45318), (175, 45294), (182, 45273), (183, 45270), (188, 45255), (191, 45240), (218, 45171), (220, 45156), (228, 45114), (237, 45042), (240, 45027), (242, 45018), (251, 44985), (252, 44982), (254, 44964), (263, 44934), (273, 44874), (276, 44856), (278, 44844), (281, 44799), (282, 44793), (283, 44784), (288, 44754), (289, 44730), (310, 44691), (319, 44646), (324, 44625), (325, 44622), (345, 44553), (348, 44535),

Gene: RedMaple_51 Start: 45385, Stop: 43982, Start Num: 74

Candidate Starts for RedMaple_51:

(36, 45550), (Start: 74 @45385 has 212 MA's), (Start: 76 @45382 has 65 MA's), (Start: 77 @45376 has 1 MA's), (84, 45334), (97, 45262), (Start: 105 @45241 has 5 MA's), (Start: 135 @45145 has 1 MA's), (149, 45094), (161, 45028), (162, 45025), (167, 44974), (182, 44908), (186, 44896), (196, 44860), (213, 44815), (220, 44785), (227, 44746), (232, 44707), (236, 44674), (237, 44671), (242, 44647), (251, 44614), (254, 44593), (263, 44563), (279, 44449), (283, 44407), (285, 44386), (289, 44353), (307, 44281), (310, 44275), (320, 44227), (331, 44182), (338, 44158), (343, 44143), (348, 44119),

Gene: Reprobate_50 Start: 46277, Stop: 44892, Start Num: 72

Candidate Starts for Reprobate_50:

(36, 46430), (Start: 72 @46277 has 8 MA's), (Start: 79 @46259 has 2 MA's), (83, 46229), (Start: 135 @46040 has 1 MA's), (143, 46013), (144, 46010), (184, 45803), (189, 45785), (224, 45668), (233, 45605), (237, 45581), (240, 45566), (256, 45497), (263, 45473), (264, 45470), (281, 45338), (283, 45326), (285, 45305), (289, 45272), (291, 45254), (307, 45200), (318, 45155), (324, 45128), (345, 45047), (355, 45008), (358, 45002), (364, 44966),

Gene: Rhinoforte_50 Start: 44985, Stop: 43618, Start Num: 76

Candidate Starts for Rhinoforte_50:

(Start: 76 @44985 has 65 MA's), (86, 44922), (88, 44907), (117, 44796), (134, 44745), (148, 44697), (156, 44649), (179, 44508), (182, 44499), (205, 44454), (207, 44448), (208, 44442), (213, 44430), (232, 44325), (236, 44292), (242, 44265), (251, 44232), (256, 44205), (263, 44181), (268, 44154), (271, 44127), (280, 44052), (285, 44007), (289, 43974), (297, 43953), (305, 43947), (315, 43914), (318, 43896), (361, 43734), (364, 43716), (372, 43659),

Gene: Rich_49 Start: 46053, Stop: 44674, Start Num: 72

Candidate Starts for Rich_49:

(27, 46257), (29, 46248), (46, 46143), (Start: 72 @46053 has 8 MA's), (Start: 79 @46035 has 2 MA's), (Start: 135 @45822 has 1 MA's), (144, 45792), (172, 45627), (184, 45585), (189, 45567), (194, 45552), (195, 45549), (215, 45501), (224, 45450), (237, 45363), (240, 45348), (242, 45339), (253, 45288), (256, 45279), (263, 45255), (264, 45252), (277, 45174), (278, 45165), (281, 45120), (289, 45054), (291, 45036), (307, 44982), (318, 44937), (324, 44910), (345, 44829), (364, 44748),

Gene: Ricotta_50 Start: 44954, Stop: 43554, Start Num: 76

Candidate Starts for Ricotta_50:

(10, 45335), (12, 45290), (18, 45248), (26, 45167), (36, 45122), (Start: 74 @44957 has 212 MA's), (Start: 76 @44954 has 65 MA's), (Start: 77 @44948 has 1 MA's), (84, 44906), (97, 44834), (Start: 105 @44813 has 5 MA's), (Start: 135 @44717 has 1 MA's), (149, 44666), (161, 44600), (162, 44597), (167, 44546), (182, 44480), (186, 44468), (196, 44432), (213, 44387), (220, 44357), (227, 44318), (232, 44279), (236, 44246), (237, 44243), (242, 44219), (251, 44186), (254, 44165), (263, 44135), (279, 44021), (283, 43979), (285, 43958), (289, 43925), (307, 43853), (310, 43847), (320, 43799), (331, 43754), (338, 43730), (343, 43715), (348, 43691),

Gene: Riggan_51 Start: 45230, Stop: 43827, Start Num: 74

Candidate Starts for Riggan_51:

(10, 45608), (12, 45563), (18, 45521), (26, 45440), (36, 45395), (Start: 74 @45230 has 212 MA's), (Start: 76 @45227 has 65 MA's), (Start: 77 @45221 has 1 MA's), (84, 45179), (97, 45107), (Start: 105 @45086 has 5 MA's), (Start: 135 @44990 has 1 MA's), (149, 44939), (161, 44873), (162, 44870), (167, 44819), (182, 44753), (186, 44741), (196, 44705), (213, 44660), (220, 44630), (227, 44591), (232, 44552), (236, 44519), (237, 44516), (242, 44492), (251, 44459), (254, 44438), (263, 44408), (279, 44294), (283, 44252), (285, 44231), (289, 44198), (307, 44126), (310, 44120), (320, 44072), (331, 44027), (338, 44003), (343, 43988), (348, 43964),

Gene: Rimu_53 Start: 44970, Stop: 43567, Start Num: 74

Candidate Starts for Rimu_53:

(10, 45348), (12, 45303), (18, 45261), (26, 45180), (36, 45135), (Start: 74 @44970 has 212 MA's), (Start: 76 @44967 has 65 MA's), (Start: 77 @44961 has 1 MA's), (84, 44919), (97, 44847), (Start: 105 @44826 has 5 MA's), (Start: 135 @44730 has 1 MA's), (149, 44679), (161, 44613), (162, 44610), (167, 44559), (182, 44493), (186, 44481), (196, 44445), (213, 44400), (220, 44370), (227, 44331), (232, 44292), (236, 44259), (237, 44256), (242, 44232), (251, 44199), (254, 44178), (263, 44148), (279, 44034), (283, 43992), (285, 43971), (289, 43938), (307, 43866), (310, 43860), (320, 43812), (331,

43767), (338, 43743), (343, 43728), (348, 43704),

Gene: Rinke_51 Start: 46908, Stop: 45520, Start Num: 66

Candidate Starts for Rinke_51:

(54, 46938), (Start: 66 @46908 has 2 MA's), (Start: 77 @46890 has 1 MA's), (78, 46884), (119, 46719), (121, 46713), (Start: 135 @46638 has 1 MA's), (158, 46545), (180, 46407), (210, 46329), (222, 46278), (224, 46269), (227, 46257), (228, 46254), (235, 46191), (237, 46182), (240, 46167), (251, 46125), (252, 46122), (254, 46104), (256, 46098), (261, 46086), (263, 46074), (268, 46035), (270, 46014), (278, 45972), (281, 45927), (285, 45891), (289, 45858), (307, 45825), (310, 45819), (323, 45756), (324, 45753), (325, 45750), (345, 45681), (358, 45636), (367, 45579), (372, 45543),

Gene: Rita130_50 Start: 46128, Stop: 44764, Start Num: 79

Candidate Starts for Rita130_50:

(36, 46296), (Start: 72 @46146 has 8 MA's), (Start: 79 @46128 has 2 MA's), (Start: 105 @45999 has 5 MA's), (Start: 135 @45912 has 1 MA's), (144, 45882), (172, 45717), (184, 45675), (189, 45657), (194, 45642), (215, 45591), (224, 45540), (237, 45453), (240, 45438), (242, 45429), (253, 45378), (256, 45369), (263, 45345), (264, 45342), (281, 45210), (285, 45177), (289, 45144), (291, 45126), (307, 45072), (318, 45027), (324, 45000), (345, 44919), (348, 44901), (364, 44838),

Gene: Rita1961_49 Start: 44862, Stop: 43249, Start Num: 34

Candidate Starts for Rita1961_49:

(14, 44988), (16, 44982), (19, 44967), (Start: 32 @44871 has 9 MA's), (Start: 34 @44862 has 41 MA's), (49, 44766), (Start: 72 @44688 has 8 MA's), (98, 44553), (Start: 135 @44394 has 1 MA's), (141, 44379), (143, 44367), (149, 44337), (158, 44295), (167, 44217), (203, 44085), (210, 44052), (213, 44043), (231, 43950), (237, 43902), (240, 43887), (242, 43878), (251, 43845), (256, 43818), (263, 43794), (278, 43704), (289, 43593), (307, 43560), (311, 43542), (317, 43521), (324, 43488),

Gene: Robyn_50 Start: 44826, Stop: 43423, Start Num: 74

Candidate Starts for Robyn_50:

(10, 45204), (12, 45159), (18, 45117), (26, 45036), (36, 44991), (Start: 74 @44826 has 212 MA's), (Start: 76 @44823 has 65 MA's), (Start: 77 @44817 has 1 MA's), (84, 44775), (97, 44703), (Start: 105 @44682 has 5 MA's), (Start: 135 @44586 has 1 MA's), (149, 44535), (161, 44469), (162, 44466), (167, 44415), (182, 44349), (186, 44337), (196, 44301), (213, 44256), (220, 44226), (227, 44187), (232, 44148), (236, 44115), (237, 44112), (242, 44088), (251, 44055), (254, 44034), (263, 44004), (279, 43890), (283, 43848), (285, 43827), (289, 43794), (307, 43722), (310, 43716), (320, 43668), (331, 43623), (338, 43599), (343, 43584), (348, 43560),

Gene: Roliet_51 Start: 45243, Stop: 43840, Start Num: 74

Candidate Starts for Roliet_51:

(10, 45621), (12, 45576), (18, 45534), (26, 45453), (36, 45408), (Start: 74 @45243 has 212 MA's), (Start: 76 @45240 has 65 MA's), (Start: 77 @45234 has 1 MA's), (84, 45192), (97, 45120), (Start: 105 @45099 has 5 MA's), (Start: 135 @45003 has 1 MA's), (149, 44952), (161, 44886), (162, 44883), (167, 44832), (182, 44766), (186, 44754), (196, 44718), (213, 44673), (220, 44643), (227, 44604), (232, 44565), (236, 44532), (237, 44529), (242, 44505), (251, 44472), (254, 44451), (263, 44421), (279, 44307), (283, 44265), (285, 44244), (289, 44211), (307, 44139), (310, 44133), (320, 44085), (331, 44040), (338, 44016), (343, 44001), (348, 43977),

Gene: RomaT_49 Start: 45660, Stop: 44038, Start Num: 32

Candidate Starts for RomaT_49:

(14, 45777), (16, 45771), (19, 45756), (Start: 32 @45660 has 9 MA's), (Start: 34 @45651 has 41 MA's), (49, 45555), (Start: 72 @45477 has 8 MA's), (98, 45342), (Start: 135 @45183 has 1 MA's), (141, 45168), (143, 45156), (149, 45126), (158, 45084), (167, 45006), (203, 44874), (210, 44841), (213, 44832), (231, 44739), (237, 44691), (240, 44676), (242, 44667), (256, 44607), (263, 44583), (278,

44493), (289, 44382), (307, 44349), (308, 44346), (311, 44331), (317, 44310), (324, 44277),

Gene: Roscoe_52 Start: 45480, Stop: 44077, Start Num: 74

Candidate Starts for Roscoe_52:

(10, 45858), (12, 45813), (18, 45771), (26, 45690), (36, 45645), (Start: 74 @45480 has 212 MA's), (Start: 76 @45477 has 65 MA's), (Start: 77 @45471 has 1 MA's), (84, 45429), (97, 45357), (Start: 105 @45336 has 5 MA's), (Start: 135 @45240 has 1 MA's), (149, 45189), (161, 45123), (162, 45120), (167, 45069), (182, 45003), (186, 44991), (196, 44955), (213, 44910), (220, 44880), (227, 44841), (232, 44802), (236, 44769), (237, 44766), (242, 44742), (251, 44709), (254, 44688), (263, 44658), (279, 44544), (283, 44502), (285, 44481), (289, 44448), (307, 44376), (310, 44370), (320, 44322), (331, 44277), (338, 44253), (343, 44238), (348, 44214),

Gene: Rosebush_49 Start: 44997, Stop: 43630, Start Num: 76

Candidate Starts for Rosebush_49:

(Start: 76 @44997 has 65 MA's), (86, 44934), (88, 44919), (117, 44808), (134, 44757), (148, 44709), (156, 44661), (179, 44520), (182, 44511), (205, 44466), (207, 44460), (208, 44454), (213, 44442), (232, 44337), (236, 44304), (240, 44286), (242, 44277), (251, 44244), (256, 44217), (263, 44193), (268, 44166), (271, 44139), (280, 44064), (285, 44019), (289, 43986), (297, 43965), (305, 43959), (315, 43926), (316, 43917), (318, 43908), (361, 43746), (364, 43728), (372, 43671),

Gene: Roy17_51 Start: 44934, Stop: 43531, Start Num: 74

Candidate Starts for Roy17_51:

(36, 45099), (Start: 74 @44934 has 212 MA's), (Start: 76 @44931 has 65 MA's), (Start: 77 @44925 has 1 MA's), (84, 44883), (97, 44811), (Start: 105 @44790 has 5 MA's), (Start: 135 @44694 has 1 MA's), (149, 44643), (161, 44577), (162, 44574), (167, 44523), (182, 44457), (186, 44445), (196, 44409), (213, 44364), (220, 44334), (227, 44295), (232, 44256), (236, 44223), (237, 44220), (242, 44196), (251, 44163), (254, 44142), (263, 44112), (279, 43998), (283, 43956), (285, 43935), (289, 43902), (307, 43830), (310, 43824), (320, 43776), (331, 43731), (338, 43707), (343, 43692), (348, 43668),

Gene: SDcharge11_51 Start: 45053, Stop: 43818, Start Num: 111

Candidate Starts for SDcharge11_51:

(Start: 111 @45053 has 1 MA's), (Start: 135 @44981 has 1 MA's), (149, 44930), (161, 44864), (162, 44861), (167, 44810), (182, 44744), (186, 44732), (196, 44696), (213, 44651), (220, 44621), (227, 44582), (232, 44543), (236, 44510), (237, 44507), (242, 44483), (251, 44450), (254, 44429), (263, 44399), (279, 44285), (283, 44243), (285, 44222), (289, 44189), (307, 44117), (310, 44111), (320, 44063), (331, 44018), (338, 43994), (343, 43979), (348, 43955),

Gene: Sabella_49 Start: 44851, Stop: 43490, Start Num: 76

Candidate Starts for Sabella_49:

(Start: 76 @44851 has 65 MA's), (86, 44788), (88, 44773), (117, 44662), (134, 44617), (148, 44569), (156, 44521), (179, 44380), (182, 44371), (205, 44326), (207, 44320), (208, 44314), (213, 44302), (232, 44197), (236, 44164), (240, 44146), (242, 44137), (251, 44104), (256, 44077), (263, 44053), (271, 43999), (280, 43924), (285, 43879), (289, 43846), (297, 43825), (305, 43819), (315, 43786), (316, 43777), (318, 43768), (361, 43606), (364, 43588), (372, 43531),

Gene: Saguaro_53 Start: 47395, Stop: 46115, Start Num: 91

Candidate Starts for Saguaro_53:

(47, 47587), (Start: 91 @47395 has 1 MA's), (102, 47344), (137, 47212), (140, 47206), (149, 47164), (157, 47125), (162, 47095), (170, 47032), (182, 46978), (191, 46945), (222, 46858), (228, 46834), (235, 46771), (237, 46762), (240, 46747), (243, 46735), (254, 46684), (262, 46657), (263, 46654), (268, 46627), (273, 46594), (276, 46576), (278, 46564), (285, 46483), (289, 46450), (324, 46345), (325, 46342), (335, 46300),

Gene: Salete_44 Start: 36172, Stop: 34982, Start Num: 105

Candidate Starts for Salete_44:

(52, 36391), (67, 36340), (82, 36283), (Start: 105 @36172 has 5 MA's), (Start: 113 @36148 has 5 MA's), (126, 36109), (140, 36070), (150, 36025), (152, 36004), (168, 35899), (169, 35893), (178, 35848), (182, 35836), (216, 35779), (219, 35773), (227, 35728), (230, 35710), (240, 35638), (248, 35608), (255, 35572), (256, 35569), (259, 35560), (305, 35284), (309, 35275), (318, 35230), (323, 35206), (326, 35197), (334, 35164), (351, 35107), (357, 35089), (371, 34996), (372, 34993),

Gene: Samaymay_51 Start: 45234, Stop: 43831, Start Num: 74

Candidate Starts for Samaymay_51:

(10, 45612), (12, 45567), (18, 45525), (26, 45444), (36, 45399), (Start: 74 @45234 has 212 MA's), (Start: 76 @45231 has 65 MA's), (Start: 77 @45225 has 1 MA's), (84, 45183), (97, 45111), (Start: 105 @45090 has 5 MA's), (Start: 135 @44994 has 1 MA's), (149, 44943), (161, 44877), (162, 44874), (167, 44823), (182, 44757), (186, 44745), (196, 44709), (213, 44664), (220, 44634), (227, 44595), (232, 44556), (236, 44523), (237, 44520), (242, 44496), (251, 44463), (254, 44442), (263, 44412), (279, 44298), (283, 44256), (285, 44235), (289, 44202), (307, 44130), (310, 44124), (320, 44076), (331, 44031), (338, 44007), (343, 43992), (348, 43968),

Gene: SassyCat97_50 Start: 44961, Stop: 43558, Start Num: 74

Candidate Starts for SassyCat97_50:

(10, 45339), (12, 45294), (18, 45252), (26, 45171), (36, 45126), (Start: 74 @44961 has 212 MA's), (Start: 76 @44958 has 65 MA's), (Start: 77 @44952 has 1 MA's), (84, 44910), (97, 44838), (Start: 105 @44817 has 5 MA's), (Start: 135 @44721 has 1 MA's), (149, 44670), (161, 44604), (162, 44601), (167, 44550), (182, 44484), (186, 44472), (196, 44436), (213, 44391), (220, 44361), (227, 44322), (232, 44283), (236, 44250), (237, 44247), (239, 44241), (242, 44223), (251, 44190), (254, 44169), (263, 44139), (279, 44025), (283, 43983), (285, 43962), (289, 43929), (307, 43857), (310, 43851), (320, 43803), (331, 43758), (338, 43734), (343, 43719), (348, 43695),

Gene: Schadenfreude_50 Start: 44797, Stop: 43397, Start Num: 76

Candidate Starts for Schadenfreude_50:

(Start: 71 @44800 has 18 MA's), (Start: 76 @44797 has 65 MA's), (Start: 77 @44791 has 1 MA's), (84, 44749), (97, 44677), (Start: 105 @44656 has 5 MA's), (Start: 135 @44560 has 1 MA's), (149, 44509), (161, 44443), (162, 44440), (167, 44389), (182, 44323), (186, 44311), (196, 44275), (213, 44230), (220, 44200), (227, 44161), (232, 44122), (236, 44089), (237, 44086), (239, 44080), (242, 44062), (251, 44029), (254, 44008), (263, 43978), (283, 43822), (285, 43801), (289, 43768), (307, 43696), (310, 43690), (320, 43642), (331, 43597), (338, 43573), (343, 43558), (348, 43534),

Gene: Schueller_51 Start: 44959, Stop: 43556, Start Num: 71

Candidate Starts for Schueller_51:

(36, 45121), (Start: 71 @44959 has 18 MA's), (Start: 76 @44956 has 65 MA's), (84, 44908), (97, 44836), (Start: 105 @44815 has 5 MA's), (Start: 135 @44719 has 1 MA's), (149, 44668), (161, 44602), (162, 44599), (167, 44548), (182, 44482), (186, 44470), (196, 44434), (213, 44389), (220, 44359), (227, 44320), (232, 44281), (236, 44248), (237, 44245), (239, 44239), (242, 44221), (251, 44188), (254, 44167), (263, 44137), (279, 44023), (283, 43981), (285, 43960), (289, 43927), (307, 43855), (310, 43849), (320, 43801), (331, 43756), (338, 43732), (343, 43717), (348, 43693),

Gene: Scoot17C_52 Start: 45377, Stop: 43974, Start Num: 74

Candidate Starts for Scoot17C_52:

(10, 45755), (12, 45710), (18, 45668), (26, 45587), (36, 45542), (Start: 74 @45377 has 212 MA's), (Start: 76 @45374 has 65 MA's), (Start: 77 @45368 has 1 MA's), (84, 45326), (97, 45254), (Start: 105 @45233 has 5 MA's), (Start: 135 @45137 has 1 MA's), (149, 45086), (161, 45020), (162, 45017), (167, 44966), (182, 44900), (186, 44888), (196, 44852), (213, 44807), (220, 44777), (227, 44738), (232,

44699), (236, 44666), (237, 44663), (242, 44639), (251, 44606), (254, 44585), (263, 44555), (279, 44441), (283, 44399), (285, 44378), (289, 44345), (307, 44273), (310, 44267), (320, 44219), (331, 44174), (338, 44150), (343, 44135), (348, 44111),

Gene: Scrick_51 Start: 44970, Stop: 43567, Start Num: 74

Candidate Starts for Scrick_51:

(10, 45348), (12, 45303), (18, 45261), (26, 45180), (36, 45135), (Start: 74 @44970 has 212 MA's), (Start: 76 @44967 has 65 MA's), (Start: 77 @44961 has 1 MA's), (84, 44919), (97, 44847), (Start: 105 @44826 has 5 MA's), (Start: 135 @44730 has 1 MA's), (149, 44679), (161, 44613), (162, 44610), (167, 44559), (182, 44493), (186, 44481), (196, 44445), (213, 44400), (220, 44370), (227, 44331), (232, 44292), (236, 44259), (237, 44256), (242, 44232), (251, 44199), (254, 44178), (263, 44148), (279, 44034), (283, 43992), (285, 43971), (289, 43938), (307, 43866), (310, 43860), (320, 43812), (331, 43767), (338, 43743), (343, 43728), (348, 43704),

Gene: Selr12_51 Start: 44970, Stop: 43570, Start Num: 76

Candidate Starts for Selr12_51:

(10, 45351), (12, 45306), (18, 45264), (26, 45183), (36, 45138), (Start: 74 @44973 has 212 MA's), (Start: 76 @44970 has 65 MA's), (Start: 77 @44964 has 1 MA's), (84, 44922), (97, 44850), (Start: 105 @44829 has 5 MA's), (Start: 135 @44733 has 1 MA's), (149, 44682), (161, 44616), (162, 44613), (167, 44562), (182, 44496), (186, 44484), (196, 44448), (213, 44403), (220, 44373), (227, 44334), (232, 44295), (236, 44262), (237, 44259), (242, 44235), (251, 44202), (254, 44181), (263, 44151), (279, 44037), (283, 43995), (285, 43974), (289, 43941), (307, 43869), (310, 43863), (320, 43815), (331, 43770), (338, 43746), (343, 43731), (348, 43707),

Gene: Serendipitous_50 Start: 45974, Stop: 44589, Start Num: 72

Candidate Starts for Serendipitous_50:

(Start: 72 @45974 has 8 MA's), (Start: 79 @45956 has 2 MA's), (Start: 135 @45737 has 1 MA's), (144, 45707), (172, 45542), (184, 45500), (189, 45482), (194, 45467), (215, 45416), (224, 45365), (237, 45278), (240, 45263), (242, 45254), (256, 45194), (263, 45170), (264, 45167), (281, 45035), (285, 45002), (289, 44969), (291, 44951), (307, 44897), (318, 44852), (324, 44825), (345, 44744), (364, 44663),

Gene: Serendipity_51 Start: 45258, Stop: 43855, Start Num: 74

Candidate Starts for Serendipity_51:

(10, 45636), (12, 45591), (18, 45549), (26, 45468), (36, 45423), (Start: 74 @45258 has 212 MA's), (Start: 76 @45255 has 65 MA's), (Start: 77 @45249 has 1 MA's), (84, 45207), (97, 45135), (Start: 105 @45114 has 5 MA's), (Start: 135 @45018 has 1 MA's), (149, 44967), (161, 44901), (162, 44898), (167, 44847), (182, 44781), (186, 44769), (196, 44733), (213, 44688), (220, 44658), (227, 44619), (232, 44580), (236, 44547), (237, 44544), (242, 44520), (251, 44487), (254, 44466), (263, 44436), (279, 44322), (283, 44280), (285, 44259), (289, 44226), (307, 44154), (310, 44148), (320, 44100), (331, 44055), (338, 44031), (343, 44016), (348, 43992),

Gene: Serpentine_0051 Start: 45257, Stop: 43854, Start Num: 74

Candidate Starts for Serpentine_0051:

(36, 45422), (Start: 74 @45257 has 212 MA's), (Start: 76 @45254 has 65 MA's), (Start: 77 @45248 has 1 MA's), (84, 45206), (97, 45134), (Start: 105 @45113 has 5 MA's), (Start: 135 @45017 has 1 MA's), (149, 44966), (161, 44900), (162, 44897), (165, 44873), (167, 44846), (182, 44780), (186, 44768), (196, 44732), (213, 44687), (220, 44657), (227, 44618), (232, 44579), (236, 44546), (237, 44543), (242, 44519), (251, 44486), (254, 44465), (263, 44435), (279, 44321), (283, 44279), (285, 44258), (289, 44225), (307, 44153), (310, 44147), (320, 44099), (331, 44054), (338, 44030), (343, 44015), (348, 43991),

Gene: Shatter_44 Start: 37982, Stop: 36669, Start Num: 57

Candidate Starts for Shatter_44:

(Start: 56 @37985 has 1 MA's), (Start: 57 @37982 has 3 MA's), (Start: 135 @37823 has 1 MA's), (139, 37817), (149, 37766), (210, 37511), (218, 37490), (225, 37445), (228, 37433), (251, 37304), (256, 37277), (263, 37253), (269, 37223), (270, 37205), (273, 37193), (278, 37163), (280, 37130), (285, 37085), (289, 37052), (301, 37019), (305, 36992), (317, 36947), (318, 36941), (324, 36914), (325, 36911), (338, 36863), (372, 36701),

Gene: Sheila_51 Start: 45283, Stop: 43880, Start Num: 74

Candidate Starts for Sheila_51:

(10, 45661), (12, 45616), (18, 45574), (26, 45493), (36, 45448), (Start: 74 @45283 has 212 MA's), (Start: 76 @45280 has 65 MA's), (Start: 77 @45274 has 1 MA's), (84, 45232), (97, 45160), (Start: 105 @45139 has 5 MA's), (Start: 135 @45043 has 1 MA's), (149, 44992), (161, 44926), (162, 44923), (167, 44872), (182, 44806), (186, 44794), (196, 44758), (213, 44713), (220, 44683), (227, 44644), (232, 44605), (236, 44572), (237, 44569), (242, 44545), (251, 44512), (254, 44491), (263, 44461), (279, 44347), (283, 44305), (285, 44284), (289, 44251), (307, 44179), (310, 44173), (320, 44125), (331, 44080), (338, 44056), (343, 44041), (348, 44017),

Gene: Shenyu_50 Start: 46226, Stop: 44841, Start Num: 72

Candidate Starts for Shenyu_50:

(Start: 72 @46226 has 8 MA's), (Start: 79 @46208 has 2 MA's), (Start: 135 @45989 has 1 MA's), (144, 45959), (172, 45794), (184, 45752), (189, 45734), (194, 45719), (215, 45668), (224, 45617), (237, 45530), (240, 45515), (242, 45506), (256, 45446), (263, 45422), (264, 45419), (277, 45341), (281, 45287), (285, 45254), (289, 45221), (291, 45203), (307, 45149), (317, 45110), (318, 45104), (324, 45077), (345, 44996), (355, 44957), (364, 44915),

Gene: ShiVal_51 Start: 45241, Stop: 43838, Start Num: 74

Candidate Starts for ShiVal_51:

(10, 45619), (12, 45574), (18, 45532), (26, 45451), (36, 45406), (Start: 74 @45241 has 212 MA's), (Start: 76 @45238 has 65 MA's), (Start: 77 @45232 has 1 MA's), (84, 45190), (97, 45118), (Start: 105 @45097 has 5 MA's), (Start: 135 @45001 has 1 MA's), (149, 44950), (161, 44884), (162, 44881), (167, 44830), (182, 44764), (186, 44752), (196, 44716), (213, 44671), (220, 44641), (227, 44602), (232, 44563), (236, 44530), (237, 44527), (242, 44503), (251, 44470), (254, 44449), (263, 44419), (279, 44305), (283, 44263), (285, 44242), (289, 44209), (307, 44137), (310, 44131), (320, 44083), (331, 44038), (338, 44014), (343, 43999), (348, 43975),

Gene: Sigman_52 Start: 45368, Stop: 43965, Start Num: 74

Candidate Starts for Sigman_52:

(10, 45746), (12, 45701), (18, 45659), (26, 45578), (36, 45533), (Start: 74 @45368 has 212 MA's), (Start: 76 @45365 has 65 MA's), (Start: 77 @45359 has 1 MA's), (84, 45317), (97, 45245), (Start: 105 @45224 has 5 MA's), (Start: 135 @45128 has 1 MA's), (149, 45077), (161, 45011), (162, 45008), (167, 44957), (182, 44891), (186, 44879), (196, 44843), (213, 44798), (220, 44768), (227, 44729), (232, 44690), (236, 44657), (237, 44654), (242, 44630), (251, 44597), (254, 44576), (263, 44546), (279, 44432), (283, 44390), (285, 44369), (289, 44336), (307, 44264), (310, 44258), (320, 44210), (331, 44165), (338, 44141), (343, 44126), (348, 44102),

Gene: SilverBell_51 Start: 45261, Stop: 43861, Start Num: 76

Candidate Starts for SilverBell_51:

(10, 45642), (12, 45597), (18, 45555), (26, 45474), (36, 45429), (Start: 74 @45264 has 212 MA's), (Start: 76 @45261 has 65 MA's), (Start: 77 @45255 has 1 MA's), (84, 45213), (97, 45141), (Start: 105 @45120 has 5 MA's), (Start: 135 @45024 has 1 MA's), (149, 44973), (161, 44907), (162, 44904), (167, 44853), (182, 44787), (186, 44775), (196, 44739), (213, 44694), (220, 44664), (227, 44625), (232, 44586), (236, 44553), (237, 44550), (242, 44526), (251, 44493), (254, 44472), (263, 44442), (279, 44328), (283, 44286), (285, 44265), (289, 44232), (307, 44160), (310, 44154), (320, 44106), (331,

44061), (338, 44037), (343, 44022), (348, 43998),

Gene: Simielle_50 Start: 44927, Stop: 43524, Start Num: 74

Candidate Starts for Simielle_50:

(10, 45305), (12, 45260), (18, 45218), (26, 45137), (36, 45092), (Start: 74 @44927 has 212 MA's), (Start: 76 @44924 has 65 MA's), (Start: 77 @44918 has 1 MA's), (84, 44876), (97, 44804), (Start: 105 @44783 has 5 MA's), (Start: 135 @44687 has 1 MA's), (149, 44636), (161, 44570), (162, 44567), (167, 44516), (182, 44450), (186, 44438), (196, 44402), (213, 44357), (220, 44327), (227, 44288), (232, 44249), (236, 44216), (237, 44213), (242, 44189), (251, 44156), (254, 44135), (263, 44105), (279, 43991), (283, 43949), (285, 43928), (289, 43895), (307, 43823), (310, 43817), (320, 43769), (331, 43724), (338, 43700), (343, 43685), (348, 43661),

Gene: SirJeffery_50 Start: 46127, Stop: 44763, Start Num: 79

Candidate Starts for SirJeffery_50:

(36, 46295), (Start: 72 @46145 has 8 MA's), (Start: 79 @46127 has 2 MA's), (Start: 105 @45998 has 5 MA's), (Start: 135 @45911 has 1 MA's), (144, 45881), (172, 45716), (184, 45674), (189, 45656), (194, 45641), (215, 45590), (224, 45539), (237, 45452), (240, 45437), (242, 45428), (253, 45377), (256, 45368), (263, 45344), (264, 45341), (281, 45209), (285, 45176), (289, 45143), (291, 45125), (307, 45071), (318, 45026), (324, 44999), (345, 44918), (348, 44900), (364, 44837),

Gene: Sisko_44 Start: 38755, Stop: 37490, Start Num: 59

Candidate Starts for Sisko_44:

(Start: 59 @38755 has 6 MA's), (Start: 71 @38737 has 18 MA's), (80, 38716), (Start: 135 @38629 has 1 MA's), (139, 38623), (143, 38602), (149, 38572), (211, 38314), (218, 38296), (228, 38239), (237, 38167), (240, 38152), (242, 38143), (247, 38125), (251, 38110), (256, 38083), (263, 38059), (273, 37999), (281, 37924), (285, 37891), (289, 37858), (292, 37849), (301, 37825), (302, 37813), (318, 37747), (324, 37720), (328, 37708), (358, 37600), (359, 37597), (364, 37564),

Gene: Skippy_51 Start: 45228, Stop: 43825, Start Num: 74

Candidate Starts for Skippy_51:

(36, 45393), (Start: 74 @45228 has 212 MA's), (Start: 76 @45225 has 65 MA's), (Start: 77 @45219 has 1 MA's), (84, 45177), (97, 45105), (Start: 105 @45084 has 5 MA's), (Start: 135 @44988 has 1 MA's), (149, 44937), (161, 44871), (162, 44868), (167, 44817), (182, 44751), (186, 44739), (196, 44703), (213, 44658), (220, 44628), (227, 44589), (232, 44550), (236, 44517), (237, 44514), (242, 44490), (251, 44457), (254, 44436), (263, 44406), (279, 44292), (283, 44250), (285, 44229), (289, 44196), (307, 44124), (310, 44118), (320, 44070), (331, 44025), (338, 44001), (343, 43986), (348, 43962),

Gene: Slatt_51 Start: 45254, Stop: 43851, Start Num: 74

Candidate Starts for Slatt_51:

(10, 45632), (12, 45587), (18, 45545), (26, 45464), (36, 45419), (Start: 74 @45254 has 212 MA's), (Start: 76 @45251 has 65 MA's), (Start: 77 @45245 has 1 MA's), (84, 45203), (97, 45131), (Start: 105 @45110 has 5 MA's), (Start: 135 @45014 has 1 MA's), (149, 44963), (161, 44897), (162, 44894), (167, 44843), (182, 44777), (186, 44765), (196, 44729), (213, 44684), (220, 44654), (227, 44615), (232, 44576), (236, 44543), (237, 44540), (242, 44516), (251, 44483), (254, 44462), (263, 44432), (279, 44318), (283, 44276), (285, 44255), (289, 44222), (307, 44150), (310, 44144), (320, 44096), (331, 44051), (338, 44027), (343, 44012), (348, 43988),

Gene: SlippinJimmy_49 Start: 45653, Stop: 44031, Start Num: 32

Candidate Starts for SlippinJimmy_49:

(14, 45770), (16, 45764), (19, 45749), (Start: 32 @45653 has 9 MA's), (Start: 34 @45644 has 41 MA's), (49, 45548), (Start: 72 @45470 has 8 MA's), (98, 45335), (Start: 135 @45176 has 1 MA's), (141, 45161), (143, 45149), (149, 45119), (158, 45077), (167, 44999), (203, 44867), (210, 44834), (213,

44825), (231, 44732), (237, 44684), (240, 44669), (242, 44660), (251, 44627), (256, 44600), (263, 44576), (278, 44486), (289, 44375), (307, 44342), (311, 44324), (317, 44303), (324, 44270),

Gene: Soile_51 Start: 44957, Stop: 43554, Start Num: 74

Candidate Starts for Soile_51:

(36, 45122), (Start: 74 @44957 has 212 MA's), (Start: 76 @44954 has 65 MA's), (Start: 77 @44948 has 1 MA's), (84, 44906), (97, 44834), (Start: 105 @44813 has 5 MA's), (Start: 135 @44717 has 1 MA's), (149, 44666), (161, 44600), (162, 44597), (165, 44573), (167, 44546), (182, 44480), (186, 44468), (196, 44432), (213, 44387), (220, 44357), (227, 44318), (232, 44279), (236, 44246), (237, 44243), (242, 44219), (251, 44186), (254, 44165), (263, 44135), (279, 44021), (283, 43979), (285, 43958), (289, 43925), (307, 43853), (310, 43847), (320, 43799), (331, 43754), (338, 43730), (343, 43715), (348, 43691),

Gene: Solosis_50 Start: 44955, Stop: 43552, Start Num: 74

Candidate Starts for Solosis_50:

(10, 45333), (12, 45288), (18, 45246), (26, 45165), (36, 45120), (Start: 74 @44955 has 212 MA's), (Start: 76 @44952 has 65 MA's), (Start: 77 @44946 has 1 MA's), (84, 44904), (97, 44832), (Start: 105 @44811 has 5 MA's), (Start: 135 @44715 has 1 MA's), (149, 44664), (161, 44598), (162, 44595), (167, 44544), (182, 44478), (186, 44466), (196, 44430), (213, 44385), (220, 44355), (227, 44316), (232, 44277), (236, 44244), (237, 44241), (242, 44217), (251, 44184), (254, 44163), (263, 44133), (279, 44019), (283, 43977), (285, 43956), (289, 43923), (307, 43851), (310, 43845), (320, 43797), (331, 43752), (338, 43728), (343, 43713), (348, 43689),

Gene: Sophia_50 Start: 44949, Stop: 43546, Start Num: 74

Candidate Starts for Sophia_50:

(10, 45327), (12, 45282), (18, 45240), (26, 45159), (36, 45114), (Start: 74 @44949 has 212 MA's), (Start: 76 @44946 has 65 MA's), (Start: 77 @44940 has 1 MA's), (84, 44898), (97, 44826), (Start: 105 @44805 has 5 MA's), (Start: 135 @44709 has 1 MA's), (149, 44658), (161, 44592), (162, 44589), (165, 44565), (167, 44538), (182, 44472), (186, 44460), (196, 44424), (213, 44379), (220, 44349), (227, 44310), (232, 44271), (236, 44238), (237, 44235), (242, 44211), (251, 44178), (254, 44157), (263, 44127), (279, 44013), (283, 43971), (285, 43950), (289, 43917), (307, 43845), (310, 43839), (320, 43791), (331, 43746), (338, 43722), (343, 43707), (348, 43683),

Gene: Soto_51 Start: 45255, Stop: 43852, Start Num: 74

Candidate Starts for Soto_51:

(12, 45588), (18, 45546), (26, 45465), (36, 45420), (Start: 74 @45255 has 212 MA's), (Start: 76 @45252 has 65 MA's), (Start: 77 @45246 has 1 MA's), (84, 45204), (97, 45132), (Start: 105 @45111 has 5 MA's), (Start: 135 @45015 has 1 MA's), (149, 44964), (161, 44898), (162, 44895), (167, 44844), (182, 44778), (186, 44766), (196, 44730), (213, 44685), (220, 44655), (227, 44616), (232, 44577), (236, 44544), (237, 44541), (242, 44517), (251, 44484), (254, 44463), (263, 44433), (279, 44319), (283, 44277), (285, 44256), (289, 44223), (307, 44151), (310, 44145), (320, 44097), (331, 44052), (338, 44028), (343, 44013), (348, 43989),

Gene: Sour_49 Start: 42596, Stop: 41325, Start Num: 59

Candidate Starts for Sour_49:

(Start: 59 @42596 has 6 MA's), (80, 42554), (Start: 135 @42464 has 1 MA's), (139, 42458), (143, 42437), (146, 42428), (149, 42407), (188, 42209), (192, 42194), (210, 42152), (211, 42149), (218, 42131), (228, 42074), (240, 41987), (244, 41972), (246, 41963), (251, 41945), (256, 41918), (263, 41894), (269, 41864), (278, 41804), (280, 41771), (285, 41726), (289, 41693), (292, 41684), (301, 41660), (305, 41633), (317, 41588), (318, 41582), (324, 41555), (325, 41552), (338, 41504), (370, 41354),

Gene: Spartan300_51 Start: 45240, Stop: 43837, Start Num: 74

Candidate Starts for Spartan300_51:

(10, 45618), (12, 45573), (18, 45531), (26, 45450), (36, 45405), (Start: 74 @45240 has 212 MA's), (Start: 76 @45237 has 65 MA's), (Start: 77 @45231 has 1 MA's), (84, 45189), (97, 45117), (Start: 105 @45096 has 5 MA's), (Start: 135 @45000 has 1 MA's), (149, 44949), (161, 44883), (162, 44880), (167, 44829), (182, 44763), (186, 44751), (196, 44715), (213, 44670), (220, 44640), (227, 44601), (232, 44562), (236, 44529), (237, 44526), (242, 44502), (251, 44469), (254, 44448), (263, 44418), (279, 44304), (283, 44262), (285, 44241), (289, 44208), (307, 44136), (310, 44130), (320, 44082), (331, 44037), (338, 44013), (343, 43998), (348, 43974),

Gene: Squid_51 Start: 44961, Stop: 43558, Start Num: 74

Candidate Starts for Squid_51:

(10, 45339), (12, 45294), (18, 45252), (26, 45171), (36, 45126), (Start: 74 @44961 has 212 MA's), (Start: 76 @44958 has 65 MA's), (Start: 77 @44952 has 1 MA's), (84, 44910), (97, 44838), (Start: 105 @44817 has 5 MA's), (Start: 135 @44721 has 1 MA's), (149, 44670), (161, 44604), (162, 44601), (167, 44550), (182, 44484), (186, 44472), (196, 44436), (213, 44391), (220, 44361), (227, 44322), (232, 44283), (236, 44250), (237, 44247), (239, 44241), (242, 44223), (251, 44190), (254, 44169), (263, 44139), (279, 44025), (283, 43983), (285, 43962), (289, 43929), (307, 43857), (310, 43851), (320, 43803), (331, 43758), (338, 43734), (343, 43719), (348, 43695),

Gene: Squiggle_51 Start: 44964, Stop: 43561, Start Num: 74

Candidate Starts for Squiggle_51:

(36, 45129), (Start: 74 @44964 has 212 MA's), (Start: 76 @44961 has 65 MA's), (Start: 77 @44955 has 1 MA's), (84, 44913), (97, 44841), (Start: 105 @44820 has 5 MA's), (Start: 135 @44724 has 1 MA's), (149, 44673), (161, 44607), (162, 44604), (165, 44580), (167, 44553), (182, 44487), (186, 44475), (196, 44439), (213, 44394), (220, 44364), (227, 44325), (232, 44286), (236, 44253), (237, 44250), (242, 44226), (251, 44193), (254, 44172), (263, 44142), (279, 44028), (283, 43986), (285, 43965), (289, 43932), (307, 43860), (310, 43854), (320, 43806), (331, 43761), (338, 43737), (343, 43722), (348, 43698),

Gene: StAugustine_68 Start: 53628, Stop: 52423, Start Num: 135

Candidate Starts for StAugustine_68:

(Start: 135 @53628 has 1 MA's), (140, 53619), (174, 53418), (179, 53397), (193, 53364), (212, 53307), (224, 53250), (225, 53247), (237, 53163), (248, 53118), (257, 53079), (276, 52905), (278, 52893), (285, 52809), (289, 52776), (307, 52743), (327, 52665), (328, 52659), (345, 52599), (349, 52578),

Gene: Stinger_45 Start: 44262, Stop: 42913, Start Num: 70

Candidate Starts for Stinger_45:

(Start: 70 @44262 has 9 MA's), (Start: 73 @44259 has 15 MA's), (Start: 77 @44250 has 1 MA's), (78, 44244), (131, 44046), (143, 44004), (145, 43998), (148, 43986), (149, 43974), (183, 43785), (188, 43770), (191, 43755), (192, 43752), (218, 43686), (221, 43662), (222, 43653), (228, 43629), (237, 43557), (240, 43542), (242, 43533), (246, 43518), (251, 43500), (252, 43497), (254, 43479), (263, 43449), (268, 43422), (276, 43371), (278, 43359), (281, 43314), (282, 43308), (283, 43299), (289, 43245), (310, 43206), (324, 43140), (325, 43137), (345, 43068), (348, 43050),

Gene: StinkyVeggy_51 Start: 46290, Stop: 44905, Start Num: 72

Candidate Starts for StinkyVeggy_51:

(36, 46440), (Start: 72 @46290 has 8 MA's), (Start: 79 @46272 has 2 MA's), (Start: 113 @46116 has 5 MA's), (Start: 135 @46053 has 1 MA's), (144, 46023), (172, 45858), (184, 45816), (189, 45798), (194, 45783), (215, 45732), (224, 45681), (237, 45594), (240, 45579), (242, 45570), (256, 45510), (263, 45486), (264, 45483), (281, 45351), (285, 45318), (289, 45285), (291, 45267), (307, 45213), (318, 45168), (324, 45141), (345, 45060), (355, 45021), (364, 44979),

Gene: Struggle_50 Start: 44796, Stop: 43393, Start Num: 71

Candidate Starts for Struggle_50:

(36, 44958), (Start: 71 @44796 has 18 MA's), (Start: 76 @44793 has 65 MA's), (84, 44745), (97, 44673), (Start: 105 @44652 has 5 MA's), (Start: 135 @44556 has 1 MA's), (149, 44505), (161, 44439), (162, 44436), (165, 44412), (167, 44385), (182, 44319), (186, 44307), (196, 44271), (213, 44226), (220, 44196), (227, 44157), (232, 44118), (236, 44085), (237, 44082), (239, 44076), (242, 44058), (251, 44025), (254, 44004), (263, 43974), (279, 43860), (283, 43818), (285, 43797), (289, 43764), (307, 43692), (310, 43686), (320, 43638), (331, 43593), (338, 43569), (343, 43554), (348, 43530),

Gene: Suffolk_51 Start: 45242, Stop: 43842, Start Num: 76

Candidate Starts for Suffolk_51:

(36, 45410), (Start: 74 @45245 has 212 MA's), (Start: 76 @45242 has 65 MA's), (Start: 77 @45236 has 1 MA's), (84, 45194), (97, 45122), (Start: 105 @45101 has 5 MA's), (Start: 135 @45005 has 1 MA's), (149, 44954), (161, 44888), (162, 44885), (167, 44834), (182, 44768), (186, 44756), (196, 44720), (213, 44675), (220, 44645), (227, 44606), (232, 44567), (236, 44534), (237, 44531), (242, 44507), (251, 44474), (254, 44453), (263, 44423), (279, 44309), (283, 44267), (285, 44246), (289, 44213), (307, 44141), (310, 44135), (320, 44087), (331, 44042), (338, 44018), (343, 44003), (348, 43979),

Gene: Suigeneris_51 Start: 46147, Stop: 44765, Start Num: 72

Candidate Starts for Suigeneris_51:

(23, 46372), (Start: 72 @46147 has 8 MA's), (Start: 79 @46129 has 2 MA's), (Start: 135 @45913 has 1 MA's), (144, 45883), (172, 45718), (184, 45676), (189, 45658), (194, 45643), (215, 45592), (237, 45454), (240, 45439), (242, 45430), (253, 45379), (256, 45370), (263, 45346), (264, 45343), (281, 45211), (285, 45178), (289, 45145), (291, 45127), (307, 45073), (318, 45028), (324, 45001), (345, 44920), (348, 44902), (364, 44839),

Gene: Surely_51 Start: 45251, Stop: 43848, Start Num: 74

Candidate Starts for Surely_51:

(36, 45416), (Start: 74 @45251 has 212 MA's), (Start: 76 @45248 has 65 MA's), (Start: 77 @45242 has 1 MA's), (84, 45200), (97, 45128), (Start: 105 @45107 has 5 MA's), (Start: 135 @45011 has 1 MA's), (149, 44960), (161, 44894), (162, 44891), (165, 44867), (167, 44840), (182, 44774), (186, 44762), (196, 44726), (213, 44681), (220, 44651), (227, 44612), (232, 44573), (236, 44540), (237, 44537), (242, 44513), (251, 44480), (254, 44459), (263, 44429), (279, 44315), (283, 44273), (285, 44252), (289, 44219), (307, 44147), (310, 44141), (320, 44093), (331, 44048), (338, 44024), (343, 44009), (348, 43985),

Gene: SwainyDoc_49 Start: 44874, Stop: 43261, Start Num: 34

Candidate Starts for SwainyDoc_49:

(14, 45000), (16, 44994), (19, 44979), (Start: 32 @44883 has 9 MA's), (Start: 34 @44874 has 41 MA's), (49, 44778), (Start: 72 @44700 has 8 MA's), (98, 44565), (Start: 135 @44406 has 1 MA's), (141, 44391), (143, 44379), (149, 44349), (158, 44307), (167, 44229), (203, 44097), (210, 44064), (213, 44055), (231, 43962), (237, 43914), (240, 43899), (242, 43890), (251, 43857), (256, 43830), (263, 43806), (278, 43716), (289, 43605), (307, 43572), (311, 43554), (317, 43533), (324, 43500),

Gene: Swiphy_53 Start: 45243, Stop: 43843, Start Num: 76

Candidate Starts for Swiphy_53:

(36, 45411), (Start: 74 @45246 has 212 MA's), (Start: 76 @45243 has 65 MA's), (Start: 77 @45237 has 1 MA's), (84, 45195), (97, 45123), (Start: 105 @45102 has 5 MA's), (Start: 135 @45006 has 1 MA's), (149, 44955), (161, 44889), (162, 44886), (165, 44862), (167, 44835), (182, 44769), (186, 44757), (196, 44721), (213, 44676), (220, 44646), (227, 44607), (232, 44568), (236, 44535), (237, 44532), (242, 44508), (251, 44475), (254, 44454), (263, 44424), (279, 44310), (283, 44268), (285, 44247), (289, 44214), (307, 44142), (310, 44136), (320, 44088), (331, 44043), (338, 44019), (343, 44004), (348, 43980),

Gene: Swish_52 Start: 45390, Stop: 43987, Start Num: 74

Candidate Starts for Swish_52:

(10, 45768), (12, 45723), (18, 45681), (26, 45600), (36, 45555), (Start: 74 @45390 has 212 MA's), (Start: 76 @45387 has 65 MA's), (Start: 77 @45381 has 1 MA's), (84, 45339), (97, 45267), (Start: 105 @45246 has 5 MA's), (Start: 135 @45150 has 1 MA's), (149, 45099), (161, 45033), (162, 45030), (167, 44979), (182, 44913), (186, 44901), (196, 44865), (213, 44820), (220, 44790), (227, 44751), (232, 44712), (236, 44679), (237, 44676), (242, 44652), (251, 44619), (254, 44598), (263, 44568), (279, 44454), (283, 44412), (285, 44391), (289, 44358), (307, 44286), (310, 44280), (320, 44232), (331, 44187), (338, 44163), (343, 44148), (348, 44124),

Gene: SynergyX_49 Start: 44878, Stop: 43265, Start Num: 34

Candidate Starts for SynergyX_49:

(14, 45004), (16, 44998), (19, 44983), (Start: 32 @44887 has 9 MA's), (Start: 34 @44878 has 41 MA's), (49, 44782), (Start: 72 @44704 has 8 MA's), (98, 44569), (Start: 135 @44410 has 1 MA's), (141, 44395), (143, 44383), (149, 44353), (158, 44311), (167, 44233), (203, 44101), (210, 44068), (213, 44059), (231, 43966), (237, 43918), (240, 43903), (242, 43894), (251, 43861), (256, 43834), (263, 43810), (278, 43720), (289, 43609), (307, 43576), (308, 43573), (311, 43558), (317, 43537), (324, 43504),

Gene: TA17A_50 Start: 44847, Stop: 43480, Start Num: 76

Candidate Starts for TA17A_50:

(Start: 76 @44847 has 65 MA's), (86, 44784), (88, 44769), (117, 44658), (134, 44607), (148, 44559), (156, 44511), (179, 44370), (182, 44361), (205, 44316), (207, 44310), (208, 44304), (213, 44292), (232, 44187), (236, 44154), (240, 44136), (242, 44127), (251, 44094), (256, 44067), (263, 44043), (271, 43989), (280, 43914), (285, 43869), (289, 43836), (297, 43815), (305, 43809), (315, 43776), (316, 43767), (318, 43758), (361, 43596), (364, 43578), (372, 43521),

Gene: TP1604_44 Start: 36178, Stop: 34988, Start Num: 105

Candidate Starts for TP1604_44:

(52, 36397), (67, 36346), (82, 36289), (Start: 105 @36178 has 5 MA's), (Start: 113 @36154 has 5 MA's), (126, 36115), (140, 36076), (150, 36031), (152, 36010), (168, 35905), (169, 35899), (178, 35854), (182, 35842), (216, 35785), (219, 35779), (227, 35734), (230, 35716), (240, 35644), (248, 35614), (255, 35578), (256, 35575), (259, 35566), (305, 35290), (309, 35281), (318, 35236), (323, 35212), (326, 35203), (334, 35170), (351, 35113), (357, 35095), (371, 35002), (372, 34999),

Gene: TPA2_57 Start: 44817, Stop: 43513, Start Num: 103

Candidate Starts for TPA2_57:

(1, 46389), (2, 45999), (4, 45516), (103, 44817), (Start: 111 @44790 has 1 MA's), (123, 44730), (140, 44652), (157, 44565), (159, 44556), (166, 44496), (169, 44478), (184, 44421), (188, 44409), (202, 44367), (206, 44355), (212, 44337), (236, 44199), (240, 44181), (246, 44157), (263, 44088), (266, 44034), (270, 44010), (277, 43977), (281, 43917), (282, 43911), (289, 43851), (294, 43839), (312, 43797), (319, 43767), (327, 43740), (341, 43686), (367, 43569), (373, 43533), (375, 43521),

Gene: TallGrassMM_51 Start: 44861, Stop: 43461, Start Num: 76

Candidate Starts for TallGrassMM_51:

(10, 45242), (12, 45197), (18, 45155), (26, 45074), (36, 45029), (Start: 74 @44864 has 212 MA's), (Start: 76 @44861 has 65 MA's), (Start: 77 @44855 has 1 MA's), (84, 44813), (97, 44741), (Start: 105 @44720 has 5 MA's), (Start: 135 @44624 has 1 MA's), (149, 44573), (161, 44507), (162, 44504), (167, 44453), (182, 44387), (186, 44375), (196, 44339), (213, 44294), (220, 44264), (227, 44225), (232, 44186), (236, 44153), (237, 44150), (242, 44126), (251, 44093), (254, 44072), (263, 44042), (279, 43928), (283, 43886), (285, 43865), (289, 43832), (307, 43760), (310, 43754), (320, 43706), (331, 43661), (338, 43637), (343, 43622), (348, 43598),

Gene: Telesworld_50 Start: 44943, Stop: 43540, Start Num: 74

Candidate Starts for Telesworld_50:

(36, 45108), (Start: 74 @44943 has 212 MA's), (Start: 76 @44940 has 65 MA's), (Start: 77 @44934 has 1 MA's), (84, 44892), (97, 44820), (Start: 105 @44799 has 5 MA's), (Start: 135 @44703 has 1 MA's), (149, 44652), (161, 44586), (162, 44583), (167, 44532), (182, 44466), (186, 44454), (196, 44418), (213, 44373), (220, 44343), (227, 44304), (232, 44265), (236, 44232), (237, 44229), (242, 44205), (251, 44172), (254, 44151), (263, 44121), (279, 44007), (283, 43965), (285, 43944), (289, 43911), (307, 43839), (310, 43833), (320, 43785), (331, 43740), (338, 43716), (343, 43701), (348, 43677),

Gene: Thonko_49 Start: 43281, Stop: 41938, Start Num: 73

Candidate Starts for Thonko_49:

(22, 43518), (Start: 73 @43281 has 15 MA's), (109, 43110), (110, 43104), (Start: 135 @43020 has 1 MA's), (176, 42804), (182, 42789), (220, 42696), (228, 42654), (238, 42579), (240, 42567), (243, 42555), (252, 42522), (256, 42498), (263, 42474), (273, 42414), (276, 42396), (278, 42384), (281, 42339), (285, 42303), (289, 42270), (307, 42237), (323, 42168),

Gene: Thora_51 Start: 45250, Stop: 43847, Start Num: 74

Candidate Starts for Thora_51:

(36, 45415), (Start: 74 @45250 has 212 MA's), (Start: 76 @45247 has 65 MA's), (Start: 77 @45241 has 1 MA's), (84, 45199), (97, 45127), (Start: 105 @45106 has 5 MA's), (Start: 135 @45010 has 1 MA's), (149, 44959), (161, 44893), (162, 44890), (167, 44839), (182, 44773), (186, 44761), (196, 44725), (213, 44680), (220, 44650), (227, 44611), (232, 44572), (236, 44539), (237, 44536), (242, 44512), (251, 44479), (254, 44458), (263, 44428), (279, 44314), (283, 44272), (285, 44251), (289, 44218), (307, 44146), (310, 44140), (320, 44092), (331, 44047), (338, 44023), (343, 44008), (348, 43984),

Gene: ThreeOh3D2_52 Start: 45383, Stop: 43980, Start Num: 74

Candidate Starts for ThreeOh3D2_52:

(10, 45761), (12, 45716), (18, 45674), (26, 45593), (36, 45548), (Start: 74 @45383 has 212 MA's), (Start: 76 @45380 has 65 MA's), (Start: 77 @45374 has 1 MA's), (84, 45332), (97, 45260), (Start: 105 @45239 has 5 MA's), (Start: 135 @45143 has 1 MA's), (149, 45092), (161, 45026), (162, 45023), (167, 44972), (182, 44906), (186, 44894), (196, 44858), (213, 44813), (220, 44783), (227, 44744), (232, 44705), (236, 44672), (237, 44669), (242, 44645), (251, 44612), (254, 44591), (263, 44561), (279, 44447), (283, 44405), (285, 44384), (289, 44351), (307, 44279), (310, 44273), (320, 44225), (331, 44180), (338, 44156), (343, 44141), (348, 44117),

Gene: Thunderbird_50 Start: 44951, Stop: 43548, Start Num: 71

Candidate Starts for Thunderbird_50:

(36, 45113), (Start: 71 @44951 has 18 MA's), (Start: 76 @44948 has 65 MA's), (84, 44900), (97, 44828), (Start: 105 @44807 has 5 MA's), (Start: 135 @44711 has 1 MA's), (149, 44660), (161, 44594), (162, 44591), (165, 44567), (167, 44540), (182, 44474), (186, 44462), (196, 44426), (213, 44381), (220, 44351), (227, 44312), (232, 44273), (236, 44240), (237, 44237), (242, 44213), (251, 44180), (254, 44159), (263, 44129), (279, 44015), (283, 43973), (285, 43952), (289, 43919), (307, 43847), (310, 43841), (320, 43793), (331, 43748), (338, 43724), (343, 43709), (348, 43685),

Gene: Timmi_50 Start: 44950, Stop: 43547, Start Num: 74

Candidate Starts for Timmi_50:

(10, 45328), (12, 45283), (18, 45241), (26, 45160), (36, 45115), (Start: 74 @44950 has 212 MA's), (Start: 76 @44947 has 65 MA's), (Start: 77 @44941 has 1 MA's), (84, 44899), (97, 44827), (Start: 105 @44806 has 5 MA's), (Start: 135 @44710 has 1 MA's), (149, 44659), (161, 44593), (162, 44590), (167, 44539), (182, 44473), (186, 44461), (196, 44425), (213, 44380), (220, 44350), (227, 44311), (232,

44272), (236, 44239), (237, 44236), (242, 44212), (251, 44179), (254, 44158), (263, 44128), (279, 44014), (283, 43972), (285, 43951), (289, 43918), (307, 43846), (310, 43840), (320, 43792), (331, 43747), (338, 43723), (343, 43708), (348, 43684),

Gene: Tinciduntolum_51 Start: 45009, Stop: 43642, Start Num: 76

Candidate Starts for Tinciduntolum_51:

(Start: 76 @45009 has 65 MA's), (86, 44946), (88, 44931), (117, 44820), (134, 44769), (148, 44721), (156, 44673), (179, 44532), (182, 44523), (205, 44478), (207, 44472), (208, 44466), (213, 44454), (232, 44349), (236, 44316), (240, 44298), (242, 44289), (251, 44256), (256, 44229), (263, 44205), (268, 44178), (271, 44151), (280, 44076), (285, 44031), (289, 43998), (297, 43977), (305, 43971), (315, 43938), (316, 43929), (318, 43920), (361, 43758), (364, 43740), (372, 43683),

Gene: TinyTerror_49 Start: 44873, Stop: 43251, Start Num: 32

Candidate Starts for TinyTerror_49:

(14, 44990), (16, 44984), (19, 44969), (Start: 32 @44873 has 9 MA's), (Start: 34 @44864 has 41 MA's), (49, 44768), (Start: 72 @44690 has 8 MA's), (98, 44555), (Start: 135 @44396 has 1 MA's), (141, 44381), (143, 44369), (149, 44339), (158, 44297), (167, 44219), (203, 44087), (210, 44054), (213, 44045), (231, 43952), (237, 43904), (240, 43889), (242, 43880), (256, 43820), (263, 43796), (278, 43706), (289, 43595), (307, 43562), (311, 43544), (317, 43523), (324, 43490),

Gene: TomBombadil_51 Start: 45235, Stop: 43832, Start Num: 74

Candidate Starts for TomBombadil_51:

(10, 45613), (12, 45568), (18, 45526), (26, 45445), (36, 45400), (Start: 74 @45235 has 212 MA's), (Start: 76 @45232 has 65 MA's), (Start: 77 @45226 has 1 MA's), (84, 45184), (97, 45112), (Start: 105 @45091 has 5 MA's), (Start: 135 @44995 has 1 MA's), (149, 44944), (161, 44878), (162, 44875), (167, 44824), (182, 44758), (186, 44746), (196, 44710), (213, 44665), (220, 44635), (227, 44596), (232, 44557), (236, 44524), (237, 44521), (239, 44515), (242, 44497), (251, 44464), (254, 44443), (263, 44413), (279, 44299), (283, 44257), (285, 44236), (289, 44203), (307, 44131), (310, 44125), (320, 44077), (331, 44032), (338, 44008), (343, 43993), (348, 43969),

Gene: Tomlarah_51 Start: 45238, Stop: 43835, Start Num: 74

Candidate Starts for Tomlarah_51:

(10, 45616), (12, 45571), (18, 45529), (26, 45448), (36, 45403), (Start: 74 @45238 has 212 MA's), (Start: 76 @45235 has 65 MA's), (Start: 77 @45229 has 1 MA's), (84, 45187), (97, 45115), (Start: 105 @45094 has 5 MA's), (Start: 135 @44998 has 1 MA's), (149, 44947), (161, 44881), (162, 44878), (167, 44827), (182, 44761), (186, 44749), (196, 44713), (213, 44668), (220, 44638), (227, 44599), (232, 44560), (236, 44527), (237, 44524), (242, 44500), (251, 44467), (254, 44446), (263, 44416), (279, 44302), (283, 44260), (285, 44239), (289, 44206), (307, 44134), (310, 44128), (320, 44080), (331, 44035), (338, 44011), (343, 43996), (348, 43972),

Gene: Toni_50 Start: 44942, Stop: 43539, Start Num: 74

Candidate Starts for Toni_50:

(10, 45320), (12, 45275), (18, 45233), (26, 45152), (36, 45107), (Start: 74 @44942 has 212 MA's), (Start: 76 @44939 has 65 MA's), (Start: 77 @44933 has 1 MA's), (84, 44891), (97, 44819), (Start: 105 @44798 has 5 MA's), (Start: 135 @44702 has 1 MA's), (149, 44651), (161, 44585), (162, 44582), (167, 44531), (182, 44465), (186, 44453), (196, 44417), (213, 44372), (220, 44342), (227, 44303), (232, 44264), (236, 44231), (237, 44228), (242, 44204), (251, 44171), (254, 44150), (263, 44120), (279, 44006), (283, 43964), (285, 43943), (289, 43910), (307, 43838), (310, 43832), (320, 43784), (331, 43739), (338, 43715), (343, 43700), (348, 43676),

Gene: Tooj_51 Start: 45317, Stop: 43914, Start Num: 74

Candidate Starts for Tooj_51:

(10, 45695), (12, 45650), (18, 45608), (26, 45527), (36, 45482), (Start: 74 @45317 has 212 MA's), (Start: 76 @45314 has 65 MA's), (Start: 77 @45308 has 1 MA's), (84, 45266), (97, 45194), (Start: 105 @45173 has 5 MA's), (Start: 135 @45077 has 1 MA's), (149, 45026), (161, 44960), (162, 44957), (167, 44906), (182, 44840), (186, 44828), (196, 44792), (213, 44747), (220, 44717), (227, 44678), (232, 44639), (236, 44606), (237, 44603), (242, 44579), (251, 44546), (254, 44525), (263, 44495), (279, 44381), (283, 44339), (285, 44318), (289, 44285), (307, 44213), (310, 44207), (320, 44159), (331, 44114), (338, 44090), (343, 44075), (348, 44051),

Gene: Tres_50 Start: 44860, Stop: 43493, Start Num: 76

Candidate Starts for Tres_50:

(Start: 76 @44860 has 65 MA's), (86, 44797), (88, 44782), (117, 44671), (134, 44620), (148, 44572), (156, 44524), (179, 44383), (182, 44374), (205, 44329), (207, 44323), (208, 44317), (213, 44305), (232, 44200), (236, 44167), (240, 44149), (242, 44140), (251, 44107), (256, 44080), (263, 44056), (268, 44029), (271, 44002), (280, 43927), (285, 43882), (289, 43849), (297, 43828), (305, 43822), (315, 43789), (316, 43780), (318, 43771), (361, 43609), (364, 43591), (372, 43534),

Gene: Trine_30 Start: 24580, Stop: 23426, Start Num: 124

Candidate Starts for Trine_30:

(Start: 124 @24580 has 1 MA's), (Start: 125 @24574 has 1 MA's), (166, 24382), (222, 24229), (234, 24148), (237, 24133), (252, 24073), (258, 24046), (261, 24022), (269, 23986), (272, 23959), (289, 23818), (298, 23791), (299, 23788), (304, 23746), (319, 23683), (328, 23650), (363, 23521),

Gene: True_50 Start: 44948, Stop: 43545, Start Num: 74

Candidate Starts for True_50:

(10, 45326), (12, 45281), (18, 45239), (26, 45158), (36, 45113), (Start: 74 @44948 has 212 MA's), (Start: 76 @44945 has 65 MA's), (Start: 77 @44939 has 1 MA's), (84, 44897), (97, 44825), (Start: 105 @44804 has 5 MA's), (Start: 135 @44708 has 1 MA's), (149, 44657), (161, 44591), (162, 44588), (167, 44537), (182, 44471), (186, 44459), (196, 44423), (213, 44378), (220, 44348), (227, 44309), (232, 44270), (236, 44237), (237, 44234), (242, 44210), (251, 44177), (254, 44156), (263, 44126), (279, 44012), (283, 43970), (285, 43949), (289, 43916), (307, 43844), (310, 43838), (320, 43790), (331, 43745), (338, 43721), (343, 43706), (348, 43682),

Gene: Trypo_52 Start: 45379, Stop: 43976, Start Num: 74

Candidate Starts for Trypo_52:

(36, 45544), (Start: 74 @45379 has 212 MA's), (Start: 76 @45376 has 65 MA's), (Start: 77 @45370 has 1 MA's), (84, 45328), (97, 45256), (Start: 105 @45235 has 5 MA's), (Start: 135 @45139 has 1 MA's), (149, 45088), (161, 45022), (162, 45019), (167, 44968), (182, 44902), (186, 44890), (196, 44854), (213, 44809), (220, 44779), (227, 44740), (232, 44701), (236, 44668), (237, 44665), (239, 44659), (242, 44641), (251, 44608), (254, 44587), (263, 44557), (279, 44443), (283, 44401), (285, 44380), (289, 44347), (307, 44275), (310, 44269), (320, 44221), (331, 44176), (338, 44152), (343, 44137), (348, 44113),

Gene: Tydolla_49 Start: 45612, Stop: 43999, Start Num: 34

Candidate Starts for Tydolla_49:

(14, 45738), (16, 45732), (19, 45717), (Start: 32 @45621 has 9 MA's), (Start: 34 @45612 has 41 MA's), (49, 45516), (Start: 72 @45438 has 8 MA's), (98, 45303), (Start: 135 @45144 has 1 MA's), (141, 45129), (143, 45117), (149, 45087), (158, 45045), (167, 44967), (203, 44835), (210, 44802), (213, 44793), (231, 44700), (237, 44652), (240, 44637), (242, 44628), (251, 44595), (256, 44568), (263, 44544), (278, 44454), (289, 44343), (307, 44310), (308, 44307), (311, 44292), (317, 44271), (324, 44238),

Gene: TyrionL_50 Start: 44804, Stop: 43401, Start Num: 74

Candidate Starts for TyrionL_50:

(10, 45182), (12, 45137), (18, 45095), (26, 45014), (36, 44969), (Start: 74 @44804 has 212 MA's), (Start: 76 @44801 has 65 MA's), (Start: 77 @44795 has 1 MA's), (84, 44753), (97, 44681), (Start: 105 @44660 has 5 MA's), (Start: 135 @44564 has 1 MA's), (149, 44513), (161, 44447), (162, 44444), (167, 44393), (182, 44327), (186, 44315), (196, 44279), (213, 44234), (220, 44204), (227, 44165), (232, 44126), (236, 44093), (237, 44090), (239, 44084), (242, 44066), (251, 44033), (254, 44012), (263, 43982), (279, 43868), (283, 43826), (285, 43805), (289, 43772), (307, 43700), (310, 43694), (320, 43646), (331, 43601), (338, 43577), (343, 43562), (348, 43538),

Gene: UAch1_51 Start: 45272, Stop: 43869, Start Num: 74

Candidate Starts for UAch1_51:

(10, 45650), (12, 45605), (18, 45563), (26, 45482), (36, 45437), (Start: 74 @45272 has 212 MA's), (Start: 76 @45269 has 65 MA's), (Start: 77 @45263 has 1 MA's), (84, 45221), (97, 45149), (Start: 105 @45128 has 5 MA's), (Start: 135 @45032 has 1 MA's), (149, 44981), (161, 44915), (162, 44912), (165, 44888), (167, 44861), (182, 44795), (186, 44783), (196, 44747), (213, 44702), (220, 44672), (227, 44633), (232, 44594), (236, 44561), (237, 44558), (242, 44534), (251, 44501), (254, 44480), (263, 44450), (279, 44336), (283, 44294), (285, 44273), (289, 44240), (307, 44168), (310, 44162), (320, 44114), (331, 44069), (338, 44045), (343, 44030), (348, 44006),

Gene: UncleHowie_51 Start: 44947, Stop: 43544, Start Num: 74

Candidate Starts for UncleHowie_51:

(36, 45112), (Start: 74 @44947 has 212 MA's), (Start: 76 @44944 has 65 MA's), (Start: 77 @44938 has 1 MA's), (84, 44896), (97, 44824), (Start: 105 @44803 has 5 MA's), (Start: 135 @44707 has 1 MA's), (149, 44656), (161, 44590), (162, 44587), (165, 44563), (167, 44536), (182, 44470), (186, 44458), (196, 44422), (213, 44377), (220, 44347), (227, 44308), (232, 44269), (236, 44236), (237, 44233), (242, 44209), (251, 44176), (254, 44155), (263, 44125), (279, 44011), (283, 43969), (285, 43948), (289, 43915), (307, 43843), (310, 43837), (320, 43789), (331, 43744), (338, 43720), (343, 43705), (348, 43681),

Gene: Upyo_30 Start: 25191, Stop: 24034, Start Num: 125

Candidate Starts for Upyo_30:

(53, 25530), (58, 25512), (107, 25284), (Start: 125 @25191 has 1 MA's), (Start: 133 @25155 has 4 MA's), (148, 25110), (178, 24924), (222, 24834), (234, 24753), (237, 24738), (246, 24699), (252, 24678), (261, 24627), (269, 24591), (289, 24423), (298, 24396), (299, 24393), (300, 24384), (304, 24351), (319, 24288), (324, 24267), (363, 24123), (364, 24114), (367, 24093), (369, 24078),

Gene: Usavi_51 Start: 45246, Stop: 43843, Start Num: 74

Candidate Starts for Usavi_51:

(36, 45411), (Start: 74 @45246 has 212 MA's), (Start: 76 @45243 has 65 MA's), (Start: 77 @45237 has 1 MA's), (84, 45195), (97, 45123), (Start: 105 @45102 has 5 MA's), (Start: 135 @45006 has 1 MA's), (149, 44955), (161, 44889), (162, 44886), (165, 44862), (167, 44835), (182, 44769), (186, 44757), (196, 44721), (213, 44676), (220, 44646), (227, 44607), (232, 44568), (236, 44535), (237, 44532), (242, 44508), (251, 44475), (254, 44454), (263, 44424), (279, 44310), (283, 44268), (285, 44247), (289, 44214), (307, 44142), (310, 44136), (320, 44088), (331, 44043), (338, 44019), (343, 44004), (348, 43980),

Gene: Vaishali24_50 Start: 44918, Stop: 43515, Start Num: 74

Candidate Starts for Vaishali24_50:

(10, 45296), (12, 45251), (18, 45209), (26, 45128), (36, 45083), (Start: 74 @44918 has 212 MA's), (Start: 76 @44915 has 65 MA's), (Start: 77 @44909 has 1 MA's), (84, 44867), (97, 44795), (Start: 105 @44774 has 5 MA's), (Start: 135 @44678 has 1 MA's), (149, 44627), (161, 44561), (162, 44558), (167, 44507), (182, 44441), (186, 44429), (196, 44393), (213, 44348), (220, 44318), (227, 44279), (232, 44240), (236, 44207), (237, 44204), (242, 44180), (251, 44147), (254, 44126), (263, 44096), (279, 43982), (283, 43940), (285, 43919), (289, 43886), (307, 43814), (310, 43808), (320, 43760), (331,

43715), (338, 43691), (343, 43676), (348, 43652),

Gene: Valjean_51 Start: 45240, Stop: 43840, Start Num: 76

Candidate Starts for Valjean_51:

(36, 45408), (Start: 74 @45243 has 212 MA's), (Start: 76 @45240 has 65 MA's), (Start: 77 @45234 has 1 MA's), (84, 45192), (97, 45120), (Start: 105 @45099 has 5 MA's), (Start: 135 @45003 has 1 MA's), (149, 44952), (161, 44886), (162, 44883), (165, 44859), (167, 44832), (182, 44766), (186, 44754), (196, 44718), (213, 44673), (220, 44643), (227, 44604), (232, 44565), (236, 44532), (237, 44529), (242, 44505), (251, 44472), (254, 44451), (263, 44421), (279, 44307), (283, 44265), (285, 44244), (289, 44211), (307, 44139), (310, 44133), (320, 44085), (331, 44040), (338, 44016), (343, 44001), (348, 43977),

Gene: Vaticameos_47 Start: 42929, Stop: 41526, Start Num: 74

Candidate Starts for Vaticameos_47:

(10, 43307), (12, 43262), (18, 43220), (26, 43139), (36, 43094), (Start: 74 @42929 has 212 MA's), (Start: 76 @42926 has 65 MA's), (Start: 77 @42920 has 1 MA's), (84, 42878), (97, 42806), (Start: 105 @42785 has 5 MA's), (Start: 135 @42689 has 1 MA's), (149, 42638), (161, 42572), (162, 42569), (167, 42518), (182, 42452), (186, 42440), (196, 42404), (213, 42359), (220, 42329), (227, 42290), (232, 42251), (236, 42218), (237, 42215), (242, 42191), (251, 42158), (254, 42137), (263, 42107), (279, 41993), (283, 41951), (285, 41930), (289, 41897), (307, 41825), (310, 41819), (320, 41771), (331, 41726), (338, 41702), (343, 41687), (348, 41663),

Gene: Veritas_50 Start: 44825, Stop: 43422, Start Num: 71

Candidate Starts for Veritas_50:

(36, 44987), (Start: 71 @44825 has 18 MA's), (Start: 76 @44822 has 65 MA's), (84, 44774), (97, 44702), (Start: 105 @44681 has 5 MA's), (Start: 135 @44585 has 1 MA's), (149, 44534), (161, 44468), (162, 44465), (167, 44414), (182, 44348), (186, 44336), (196, 44300), (213, 44255), (220, 44225), (227, 44186), (232, 44147), (236, 44114), (237, 44111), (239, 44105), (242, 44087), (251, 44054), (254, 44033), (263, 44003), (279, 43889), (283, 43847), (285, 43826), (289, 43793), (307, 43721), (310, 43715), (320, 43667), (331, 43622), (338, 43598), (343, 43583), (348, 43559),

Gene: Vic9_50 Start: 45381, Stop: 44014, Start Num: 76

Candidate Starts for Vic9_50:

(Start: 76 @45381 has 65 MA's), (86, 45318), (88, 45303), (117, 45192), (134, 45141), (148, 45093), (156, 45045), (179, 44904), (182, 44895), (205, 44850), (207, 44844), (208, 44838), (213, 44826), (232, 44721), (236, 44688), (238, 44682), (240, 44670), (242, 44661), (251, 44628), (256, 44601), (263, 44577), (268, 44550), (271, 44523), (280, 44448), (285, 44403), (289, 44370), (297, 44349), (305, 44343), (315, 44310), (318, 44292), (361, 44130), (364, 44112), (372, 44055),

Gene: Vincenzo_47 Start: 46277, Stop: 44940, Start Num: 73

Candidate Starts for Vincenzo_47:

(Start: 73 @46277 has 15 MA's), (Start: 79 @46262 has 2 MA's), (131, 46067), (144, 46022), (149, 46001), (175, 45836), (182, 45815), (183, 45812), (188, 45797), (220, 45698), (222, 45680), (228, 45656), (237, 45584), (240, 45569), (246, 45545), (252, 45524), (254, 45506), (263, 45476), (268, 45449), (273, 45416), (276, 45398), (281, 45341), (285, 45305), (289, 45272), (310, 45233), (324, 45167), (325, 45164), (343, 45101), (345, 45095), (348, 45077),

Gene: VioletZ_48 Start: 45803, Stop: 44463, Start Num: 73

Candidate Starts for VioletZ_48:

(Start: 70 @45806 has 9 MA's), (Start: 73 @45803 has 15 MA's), (Start: 77 @45794 has 1 MA's), (78, 45788), (87, 45737), (131, 45590), (144, 45545), (149, 45524), (171, 45383), (175, 45359), (182, 45338), (183, 45335), (188, 45320), (191, 45305), (218, 45236), (220, 45221), (222, 45203), (228, 45179), (237, 45107), (242, 45083), (251, 45050), (252, 45047), (254, 45029), (263, 44999), (273,

44939), (276, 44921), (278, 44909), (281, 44864), (282, 44858), (283, 44849), (288, 44819), (289, 44795), (310, 44756), (319, 44711), (324, 44690), (325, 44687), (345, 44618), (348, 44600),

Gene: Virapocalypse_51 Start: 45238, Stop: 43835, Start Num: 74

Candidate Starts for Virapocalypse_51:

(10, 45616), (12, 45571), (18, 45529), (26, 45448), (36, 45403), (Start: 74 @45238 has 212 MA's), (Start: 76 @45235 has 65 MA's), (Start: 77 @45229 has 1 MA's), (84, 45187), (97, 45115), (Start: 105 @45094 has 5 MA's), (Start: 135 @44998 has 1 MA's), (149, 44947), (161, 44881), (162, 44878), (167, 44827), (182, 44761), (186, 44749), (196, 44713), (213, 44668), (220, 44638), (227, 44599), (232, 44560), (236, 44527), (237, 44524), (242, 44500), (251, 44467), (254, 44446), (263, 44416), (279, 44302), (283, 44260), (285, 44239), (289, 44206), (307, 44134), (310, 44128), (320, 44080), (331, 44035), (338, 44011), (343, 43996), (348, 43972),

Gene: Virgeve_50 Start: 45015, Stop: 43612, Start Num: 71

Candidate Starts for Virgeve_50:

(36, 45177), (Start: 71 @45015 has 18 MA's), (Start: 76 @45012 has 65 MA's), (84, 44964), (97, 44892), (Start: 105 @44871 has 5 MA's), (Start: 135 @44775 has 1 MA's), (149, 44724), (161, 44658), (162, 44655), (167, 44604), (182, 44538), (186, 44526), (196, 44490), (213, 44445), (220, 44415), (227, 44376), (232, 44337), (236, 44304), (237, 44301), (239, 44295), (242, 44277), (251, 44244), (254, 44223), (263, 44193), (279, 44079), (283, 44037), (285, 44016), (289, 43983), (307, 43911), (310, 43905), (320, 43857), (331, 43812), (338, 43788), (343, 43773), (348, 43749),

Gene: Vista_51 Start: 45248, Stop: 43845, Start Num: 74

Candidate Starts for Vista_51:

(36, 45413), (Start: 74 @45248 has 212 MA's), (Start: 76 @45245 has 65 MA's), (Start: 77 @45239 has 1 MA's), (84, 45197), (97, 45125), (Start: 105 @45104 has 5 MA's), (Start: 135 @45008 has 1 MA's), (149, 44957), (161, 44891), (162, 44888), (165, 44864), (167, 44837), (182, 44771), (186, 44759), (196, 44723), (213, 44678), (220, 44648), (227, 44609), (232, 44570), (236, 44537), (237, 44534), (242, 44510), (251, 44477), (254, 44456), (263, 44426), (279, 44312), (283, 44270), (285, 44249), (289, 44216), (307, 44144), (310, 44138), (320, 44090), (331, 44045), (338, 44021), (343, 44006), (348, 43982),

Gene: Vivaldi_52 Start: 45680, Stop: 44280, Start Num: 76

Candidate Starts for Vivaldi_52:

(Start: 71 @45683 has 18 MA's), (Start: 76 @45680 has 65 MA's), (Start: 77 @45674 has 1 MA's), (84, 45632), (97, 45560), (Start: 105 @45539 has 5 MA's), (Start: 135 @45443 has 1 MA's), (149, 45392), (161, 45326), (162, 45323), (167, 45272), (182, 45206), (186, 45194), (196, 45158), (213, 45113), (220, 45083), (227, 45044), (232, 45005), (236, 44972), (237, 44969), (242, 44945), (251, 44912), (254, 44891), (263, 44861), (279, 44747), (283, 44705), (285, 44684), (289, 44651), (307, 44579), (310, 44573), (331, 44480), (338, 44456), (343, 44441), (348, 44417),

Gene: Vortex_51 Start: 44945, Stop: 43542, Start Num: 74

Candidate Starts for Vortex_51:

(10, 45323), (12, 45278), (18, 45236), (26, 45155), (36, 45110), (Start: 74 @44945 has 212 MA's), (Start: 76 @44942 has 65 MA's), (Start: 77 @44936 has 1 MA's), (84, 44894), (97, 44822), (Start: 105 @44801 has 5 MA's), (Start: 135 @44705 has 1 MA's), (149, 44654), (161, 44588), (162, 44585), (167, 44534), (182, 44468), (186, 44456), (196, 44420), (213, 44375), (220, 44345), (227, 44306), (232, 44267), (236, 44234), (237, 44231), (242, 44207), (251, 44174), (254, 44153), (263, 44123), (279, 44009), (283, 43967), (285, 43946), (289, 43913), (307, 43841), (310, 43835), (320, 43787), (331, 43742), (338, 43718), (343, 43703), (348, 43679),

Gene: Waleliano_46 Start: 45719, Stop: 44379, Start Num: 73

Candidate Starts for Waleliano_46:

(Start: 70 @45722 has 9 MA's), (Start: 73 @45719 has 15 MA's), (Start: 77 @45710 has 1 MA's), (78, 45704), (87, 45653), (131, 45506), (149, 45440), (171, 45299), (175, 45275), (182, 45254), (183, 45251), (188, 45236), (191, 45221), (218, 45152), (222, 45119), (228, 45095), (237, 45023), (240, 45008), (242, 44999), (251, 44966), (252, 44963), (254, 44945), (263, 44915), (273, 44855), (276, 44837), (278, 44825), (280, 44792), (281, 44780), (282, 44774), (283, 44765), (285, 44744), (288, 44735), (289, 44711), (310, 44672), (324, 44606), (325, 44603), (343, 44540), (345, 44534), (348, 44516),

Gene: Wallhey_50 Start: 44808, Stop: 43405, Start Num: 74

Candidate Starts for Wallhey_50:

(10, 45186), (12, 45141), (18, 45099), (26, 45018), (36, 44973), (Start: 74 @44808 has 212 MA's), (Start: 76 @44805 has 65 MA's), (Start: 77 @44799 has 1 MA's), (84, 44757), (97, 44685), (Start: 105 @44664 has 5 MA's), (Start: 135 @44568 has 1 MA's), (149, 44517), (161, 44451), (162, 44448), (167, 44397), (182, 44331), (186, 44319), (196, 44283), (213, 44238), (220, 44208), (227, 44169), (232, 44130), (236, 44097), (237, 44094), (239, 44088), (242, 44070), (251, 44037), (254, 44016), (263, 43986), (279, 43872), (283, 43830), (285, 43809), (289, 43776), (307, 43704), (310, 43698), (320, 43650), (331, 43605), (338, 43581), (343, 43566), (348, 43542),

Gene: Waterdiva_51 Start: 45240, Stop: 43837, Start Num: 74

Candidate Starts for Waterdiva_51:

(36, 45405), (Start: 74 @45240 has 212 MA's), (Start: 76 @45237 has 65 MA's), (Start: 77 @45231 has 1 MA's), (84, 45189), (97, 45117), (Start: 105 @45096 has 5 MA's), (Start: 135 @45000 has 1 MA's), (149, 44949), (161, 44883), (162, 44880), (165, 44856), (167, 44829), (182, 44763), (186, 44751), (196, 44715), (213, 44670), (220, 44640), (227, 44601), (232, 44562), (236, 44529), (237, 44526), (242, 44502), (251, 44469), (254, 44448), (263, 44418), (279, 44304), (283, 44262), (285, 44241), (289, 44208), (307, 44136), (310, 44130), (320, 44082), (331, 44037), (338, 44013), (343, 43998), (348, 43974),

Gene: Weher20_51 Start: 45239, Stop: 43836, Start Num: 74

Candidate Starts for Weher20_51:

(36, 45404), (Start: 74 @45239 has 212 MA's), (Start: 76 @45236 has 65 MA's), (Start: 77 @45230 has 1 MA's), (84, 45188), (97, 45116), (Start: 105 @45095 has 5 MA's), (Start: 135 @44999 has 1 MA's), (149, 44948), (161, 44882), (162, 44879), (167, 44828), (182, 44762), (186, 44750), (196, 44714), (213, 44669), (220, 44639), (227, 44600), (232, 44561), (236, 44528), (237, 44525), (239, 44519), (242, 44501), (251, 44468), (254, 44447), (263, 44417), (279, 44303), (283, 44261), (285, 44240), (289, 44207), (307, 44135), (310, 44129), (320, 44081), (331, 44036), (338, 44012), (343, 43997), (348, 43973),

Gene: West99_50 Start: 44995, Stop: 43628, Start Num: 76

Candidate Starts for West99_50:

(Start: 76 @44995 has 65 MA's), (86, 44932), (88, 44917), (117, 44806), (134, 44755), (148, 44707), (156, 44659), (179, 44518), (182, 44509), (205, 44464), (207, 44458), (208, 44452), (213, 44440), (232, 44335), (236, 44302), (240, 44284), (242, 44275), (251, 44242), (256, 44215), (263, 44191), (268, 44164), (271, 44137), (280, 44062), (285, 44017), (289, 43984), (297, 43963), (305, 43957), (315, 43924), (316, 43915), (318, 43906), (361, 43744), (364, 43726), (372, 43669),

Gene: Widow_31 Start: 24786, Stop: 23686, Start Num: 133

Candidate Starts for Widow_31:

(Start: 133 @24786 has 4 MA's), (138, 24771), (148, 24738), (173, 24570), (178, 24546), (217, 24474), (238, 24354), (240, 24342), (261, 24246), (278, 24153), (280, 24120), (285, 24075), (286, 24072), (289, 24042), (296, 24021), (298, 24015), (299, 24012), (304, 23970), (319, 23907), (354, 23811), (360, 23796), (363, 23775),

Gene: Windsor_50 Start: 44944, Stop: 43541, Start Num: 74

Candidate Starts for Windsor_50:

(10, 45322), (12, 45277), (18, 45235), (26, 45154), (36, 45109), (Start: 74 @44944 has 212 MA's), (Start: 76 @44941 has 65 MA's), (Start: 77 @44935 has 1 MA's), (84, 44893), (97, 44821), (Start: 105 @44800 has 5 MA's), (Start: 135 @44704 has 1 MA's), (149, 44653), (161, 44587), (162, 44584), (167, 44533), (182, 44467), (186, 44455), (196, 44419), (213, 44374), (220, 44344), (227, 44305), (232, 44266), (236, 44233), (237, 44230), (242, 44206), (251, 44173), (254, 44152), (263, 44122), (279, 44008), (283, 43966), (285, 43945), (289, 43912), (307, 43840), (310, 43834), (320, 43786), (331, 43741), (338, 43717), (343, 43702), (348, 43678),

Gene: Wooper_47 Start: 40124, Stop: 38955, Start Num: 135

Candidate Starts for Wooper_47:

(5, 40952), (9, 40841), (11, 40796), (Start: 34 @40637 has 41 MA's), (44, 40559), (95, 40304), (104, 40277), (Start: 135 @40124 has 1 MA's), (139, 40118), (144, 40094), (147, 40085), (149, 40067), (155, 40034), (157, 40028), (169, 39938), (185, 39878), (209, 39809), (224, 39746), (234, 39674), (236, 39662), (240, 39644), (242, 39635), (251, 39602), (263, 39551), (269, 39521), (272, 39494), (273, 39491), (285, 39383), (290, 39341), (299, 39308), (305, 39263), (310, 39251), (317, 39218), (318, 39212), (324, 39185),

Gene: Xavier_50 Start: 44952, Stop: 43549, Start Num: 74

Candidate Starts for Xavier_50:

(10, 45330), (12, 45285), (18, 45243), (26, 45162), (36, 45117), (Start: 74 @44952 has 212 MA's), (Start: 76 @44949 has 65 MA's), (Start: 77 @44943 has 1 MA's), (84, 44901), (97, 44829), (Start: 105 @44808 has 5 MA's), (Start: 135 @44712 has 1 MA's), (149, 44661), (161, 44595), (162, 44592), (167, 44541), (182, 44475), (186, 44463), (196, 44427), (213, 44382), (220, 44352), (227, 44313), (232, 44274), (236, 44241), (237, 44238), (239, 44232), (242, 44214), (251, 44181), (254, 44160), (263, 44130), (279, 44016), (283, 43974), (285, 43953), (289, 43920), (307, 43848), (310, 43842), (320, 43794), (331, 43749), (338, 43725), (343, 43710), (348, 43686),

Gene: Xincheng_45 Start: 45163, Stop: 43823, Start Num: 73

Candidate Starts for Xincheng_45:

(Start: 73 @45163 has 15 MA's), (Start: 77 @45154 has 1 MA's), (78, 45148), (131, 44950), (144, 44905), (149, 44884), (171, 44743), (175, 44719), (182, 44698), (183, 44695), (188, 44680), (191, 44665), (218, 44596), (222, 44563), (228, 44539), (237, 44467), (240, 44452), (242, 44443), (246, 44428), (251, 44410), (252, 44407), (254, 44389), (263, 44359), (273, 44299), (276, 44281), (278, 44269), (281, 44224), (282, 44218), (283, 44209), (285, 44188), (288, 44179), (289, 44155), (310, 44116), (324, 44050), (325, 44047), (345, 43978), (348, 43960),

Gene: Xkcd426_48 Start: 42277, Stop: 41054, Start Num: 113

Candidate Starts for Xkcd426_48:

(94, 42331), (Start: 105 @42301 has 5 MA's), (Start: 113 @42277 has 5 MA's), (114, 42268), (115, 42259), (152, 42076), (166, 41983), (169, 41965), (178, 41920), (182, 41908), (216, 41851), (227, 41800), (230, 41782), (241, 41704), (248, 41680), (256, 41641), (259, 41632), (293, 41395), (305, 41356), (313, 41326), (318, 41302), (323, 41278), (326, 41269), (353, 41170), (357, 41161), (367, 41101), (372, 41065),

Gene: YDN12_46 Start: 35847, Stop: 34681, Start Num: 113

Candidate Starts for YDN12_46:

(Start: 113 @35847 has 5 MA's), (114, 35838), (126, 35808), (140, 35769), (152, 35703), (168, 35598), (169, 35592), (178, 35547), (216, 35478), (219, 35472), (227, 35427), (230, 35409), (240, 35337), (248, 35307), (255, 35271), (256, 35268), (259, 35259), (295, 35019), (305, 34983), (309, 34974), (318, 34929), (323, 34905), (326, 34896), (334, 34863), (351, 34806), (357, 34788), (367, 34728), (371, 34695), (372, 34692),

Gene: Yago84_44 Start: 38830, Stop: 37565, Start Num: 59

Candidate Starts for Yago84_44:

(Start: 59 @38830 has 6 MA's), (Start: 71 @38812 has 18 MA's), (80, 38791), (Start: 135 @38704 has 1 MA's), (139, 38698), (143, 38677), (149, 38647), (211, 38389), (218, 38371), (228, 38314), (237, 38242), (240, 38227), (242, 38218), (247, 38200), (251, 38185), (256, 38158), (263, 38134), (273, 38074), (281, 37999), (285, 37966), (289, 37933), (292, 37924), (301, 37900), (302, 37888), (318, 37822), (324, 37795), (328, 37783), (358, 37675), (359, 37672), (364, 37639),

Gene: Yahalom_49 Start: 44898, Stop: 43276, Start Num: 32

Candidate Starts for Yahalom_49:

(14, 45015), (16, 45009), (19, 44994), (Start: 32 @44898 has 9 MA's), (Start: 34 @44889 has 41 MA's), (49, 44793), (Start: 72 @44715 has 8 MA's), (98, 44580), (Start: 135 @44421 has 1 MA's), (141, 44406), (143, 44394), (149, 44364), (158, 44322), (167, 44244), (203, 44112), (210, 44079), (213, 44070), (231, 43977), (237, 43929), (240, 43914), (242, 43905), (256, 43845), (263, 43821), (278, 43731), (289, 43620), (307, 43587), (308, 43584), (311, 43569), (317, 43548), (324, 43515),

Gene: Yeshua_47 Start: 40101, Stop: 38932, Start Num: 135

Candidate Starts for Yeshua_47:

(5, 40929), (9, 40818), (11, 40773), (Start: 34 @40614 has 41 MA's), (44, 40536), (95, 40281), (104, 40254), (Start: 135 @40101 has 1 MA's), (139, 40095), (144, 40071), (147, 40062), (149, 40044), (155, 40011), (157, 40005), (169, 39915), (185, 39855), (209, 39786), (224, 39723), (234, 39651), (236, 39639), (240, 39621), (242, 39612), (251, 39579), (263, 39528), (269, 39498), (272, 39471), (273, 39468), (285, 39360), (290, 39318), (299, 39285), (305, 39240), (310, 39228), (317, 39195), (318, 39189), (324, 39162),

Gene: Yinz_49 Start: 44914, Stop: 43301, Start Num: 34

Candidate Starts for Yinz_49:

(14, 45040), (16, 45034), (19, 45019), (Start: 32 @44923 has 9 MA's), (Start: 34 @44914 has 41 MA's), (49, 44818), (Start: 72 @44740 has 8 MA's), (98, 44605), (Start: 135 @44446 has 1 MA's), (141, 44431), (143, 44419), (149, 44389), (158, 44347), (167, 44269), (181, 44203), (182, 44200), (203, 44137), (210, 44104), (213, 44095), (231, 44002), (237, 43954), (240, 43939), (242, 43930), (256, 43870), (263, 43846), (278, 43756), (289, 43645), (307, 43612), (308, 43609), (311, 43594), (317, 43573), (324, 43540),

Gene: Yoshand_52 Start: 45400, Stop: 44000, Start Num: 76

Candidate Starts for Yoshand_52:

(10, 45781), (12, 45736), (18, 45694), (26, 45613), (36, 45568), (Start: 74 @45403 has 212 MA's), (Start: 76 @45400 has 65 MA's), (Start: 77 @45394 has 1 MA's), (84, 45352), (97, 45280), (Start: 105 @45259 has 5 MA's), (Start: 135 @45163 has 1 MA's), (149, 45112), (161, 45046), (162, 45043), (167, 44992), (182, 44926), (186, 44914), (196, 44878), (213, 44833), (220, 44803), (227, 44764), (232, 44725), (236, 44692), (237, 44689), (242, 44665), (251, 44632), (254, 44611), (263, 44581), (279, 44467), (283, 44425), (285, 44404), (289, 44371), (307, 44299), (310, 44293), (320, 44245), (331, 44200), (338, 44176), (343, 44161), (348, 44137),

Gene: YouGoGlencoco_51 Start: 45242, Stop: 43839, Start Num: 74

Candidate Starts for YouGoGlencoco_51:

(10, 45620), (12, 45575), (18, 45533), (26, 45452), (36, 45407), (Start: 74 @45242 has 212 MA's), (Start: 76 @45239 has 65 MA's), (Start: 77 @45233 has 1 MA's), (84, 45191), (97, 45119), (Start: 105 @45098 has 5 MA's), (Start: 135 @45002 has 1 MA's), (149, 44951), (161, 44885), (162, 44882), (167, 44831), (182, 44765), (186, 44753), (196, 44717), (213, 44672), (220, 44642), (227, 44603), (232, 44564), (236, 44531), (237, 44528), (242, 44504), (251, 44471), (254, 44450), (263, 44420), (279, 44306), (283, 44264), (285, 44243), (289, 44210), (307, 44138), (310, 44132), (320, 44084), (331,

44039), (338, 44015), (343, 44000), (348, 43976),

Gene: Zaider_52 Start: 45472, Stop: 44069, Start Num: 74

Candidate Starts for Zaider_52:

(36, 45637), (Start: 74 @45472 has 212 MA's), (Start: 76 @45469 has 65 MA's), (Start: 77 @45463 has 1 MA's), (84, 45421), (97, 45349), (Start: 105 @45328 has 5 MA's), (Start: 135 @45232 has 1 MA's), (149, 45181), (161, 45115), (162, 45112), (165, 45088), (167, 45061), (182, 44995), (186, 44983), (196, 44947), (213, 44902), (220, 44872), (227, 44833), (232, 44794), (236, 44761), (237, 44758), (242, 44734), (251, 44701), (254, 44680), (263, 44650), (279, 44536), (283, 44494), (285, 44473), (289, 44440), (307, 44368), (310, 44362), (320, 44314), (331, 44269), (338, 44245), (343, 44230), (348, 44206),

Gene: Zelda_51 Start: 45289, Stop: 43886, Start Num: 74

Candidate Starts for Zelda_51:

(36, 45454), (Start: 74 @45289 has 212 MA's), (Start: 76 @45286 has 65 MA's), (Start: 77 @45280 has 1 MA's), (84, 45238), (97, 45166), (Start: 105 @45145 has 5 MA's), (Start: 135 @45049 has 1 MA's), (149, 44998), (161, 44932), (162, 44929), (165, 44905), (167, 44878), (182, 44812), (186, 44800), (196, 44764), (213, 44719), (220, 44689), (227, 44650), (232, 44611), (236, 44578), (237, 44575), (242, 44551), (251, 44518), (254, 44497), (263, 44467), (279, 44353), (283, 44311), (285, 44290), (289, 44257), (307, 44185), (310, 44179), (320, 44131), (331, 44086), (338, 44062), (343, 44047), (348, 44023),

Gene: Zemanar_47 Start: 45703, Stop: 44360, Start Num: 70

Candidate Starts for Zemanar_47:

(Start: 70 @45703 has 9 MA's), (Start: 73 @45700 has 15 MA's), (Start: 77 @45691 has 1 MA's), (78, 45685), (87, 45634), (131, 45487), (144, 45442), (149, 45421), (171, 45280), (175, 45256), (182, 45235), (183, 45232), (188, 45217), (191, 45202), (218, 45133), (222, 45100), (228, 45076), (240, 44989), (242, 44980), (251, 44947), (252, 44944), (254, 44926), (263, 44896), (273, 44836), (276, 44818), (278, 44806), (281, 44761), (282, 44755), (283, 44746), (285, 44725), (288, 44716), (289, 44692), (310, 44653), (324, 44587), (325, 44584), (345, 44515), (348, 44497),

Gene: Zenteno07_55 Start: 45181, Stop: 43661, Start Num: 39

Candidate Starts for Zenteno07_55:

(Start: 39 @45181 has 1 MA's), (49, 45130), (69, 45052), (89, 44950), (136, 44788), (149, 44740), (167, 44620), (169, 44611), (182, 44554), (198, 44500), (200, 44497), (227, 44392), (228, 44389), (237, 44317), (242, 44293), (255, 44236), (273, 44143), (285, 44026), (289, 43993), (290, 43984), (305, 43966), (310, 43954), (328, 43876), (338, 43837), (374, 43669),

Gene: Zonia_51 Start: 45259, Stop: 43856, Start Num: 74

Candidate Starts for Zonia_51:

(10, 45637), (12, 45592), (18, 45550), (26, 45469), (36, 45424), (Start: 74 @45259 has 212 MA's), (Start: 76 @45256 has 65 MA's), (Start: 77 @45250 has 1 MA's), (84, 45208), (97, 45136), (Start: 105 @45115 has 5 MA's), (Start: 135 @45019 has 1 MA's), (149, 44968), (161, 44902), (162, 44899), (167, 44848), (182, 44782), (186, 44770), (196, 44734), (213, 44689), (220, 44659), (227, 44620), (232, 44581), (236, 44548), (237, 44545), (239, 44539), (242, 44521), (251, 44488), (254, 44467), (263, 44437), (279, 44323), (283, 44281), (285, 44260), (289, 44227), (307, 44155), (310, 44149), (320, 44101), (331, 44056), (338, 44032), (343, 44017), (348, 43993),