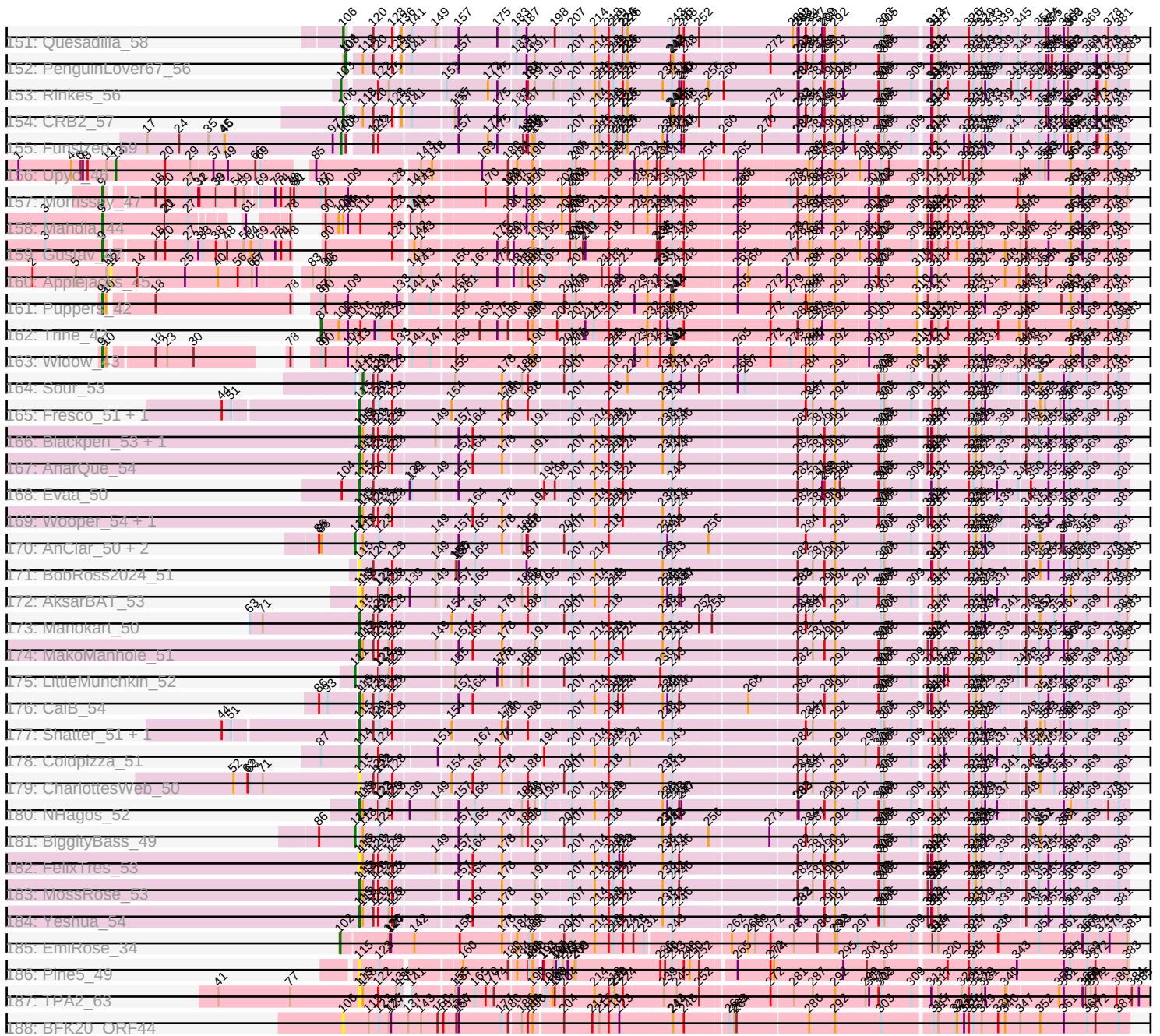


1: StAugustine_85 + 1	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
2: Wener20_60 + 90	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
3: Magic8_61 + 15	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
4: Mikota_59	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
5: DorOn_66 + 54	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
6: Prickles_62 + 10	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
7: Vista_60 + 11	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
8: Mosaic_59 + 30	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
9: Orwigg_60 + 2	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
10: Riverton_60 + 1	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
11: Derpp_60 + 6	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
12: DirtJuice_61	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
13: Kikipoo_62 + 1	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
14: Sophia_59	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
15: ImiyazSma_62 + 13	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
16: Plata_61 + 3	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
17: HSavage_59	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
18: Solo_59 + 5	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
19: Haimas_59 + 2	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
20: Simielle_60 + 2	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
21: CosmoM16_61 + 1	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
22: Carthage_59 + 3	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
23: Pinkman_60 + 4	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
24: Surely_60 + 3	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
25: Olme_61	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
26: Mutante_60	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
27: Thunderbird_60 + 3	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
28: JDog_59 + 1	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
29: Crownjwi_60 + 1	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
30: Lopsy_59	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
31: Cobra_62	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
32: Daka_63	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
33: Quisquillae_61	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
34: Squiggle_61	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
35: AltPhacts_60	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
36: Inverness_59	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
37: Piglet_0000	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
38: Sheila_58	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
39: Placalicious_61	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
40: HighStump_62	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
41: Apizium_60	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
42: Gophee_62	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
43: Harvey_59	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
44: Lehmann_62	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
45: Craft_63	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
46: Burr_60	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
47: Kioppinator_61	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
48: Nathan_61	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
49: Imvubu_52	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330
50: Indovu_55	910	116	123	144	167	180	190	201	214	228	234	243	251	265	278	280	288	290	293	299	308	311	316	321	324	327	330

[illegible]

Pham 279971

I01: Xincheng_54 + 1	901	118825	146	166	186	201	230	250	270	290	310	330	350	370	390	410	430	450	470	490	510	530	550	570	590	610	630	650	670	690	710	730	750	770	790	810	830	850	870	890	910	930	950	970	990	1010	1030	1050	1070	1090	1110	1130	1150	1170	1190	1210	1230	1250	1270	1290	1310	1330	1350	1370	1390	1410	1430	1450	1470	1490	1510	1530	1550	1570	1590	1610	1630	1650	1670	1690	1710	1730	1750	1770	1790	1810	1830	1850	1870	1890	1910	1930	1950	1970	1990	2010	2030	2050	2070	2090	2110	2130	2150	2170	2190	2210	2230	2250	2270	2290	2310	2330	2350	2370	2390	2410	2430	2450	2470	2490	2510	2530	2550	2570	2590	2610	2630	2650	2670	2690	2710	2730	2750	2770	2790	2810	2830	2850	2870	2890	2910	2930	2950	2970	2990	3010	3030	3050	3070	3090	3110	3130	3150	3170	3190	3210	3230	3250	3270	3290	3310	3330	3350	3370	3390	3410	3430	3450	3470	3490	3510	3530	3550	3570	3590	3610	3630	3650	3670	3690	3710	3730	3750	3770	3790	3810	3830	3850	3870	3890	3910	3930	3950	3970	3990	4010	4030	4050	4070	4090	4110	4130	4150	4170	4190	4210	4230	4250	4270	4290	4310	4330	4350	4370	4390	4410	4430	4450	4470	4490	4510	4530	4550	4570	4590	4610	4630	4650	4670	4690	4710	4730	4750	4770	4790	4810	4830	4850	4870	4890	4910	4930	4950	4970	4990	5010	5030	5050	5070	5090	5110	5130	5150	5170	5190	5210	5230	5250	5270	5290	5310	5330	5350	5370	5390	5410	5430	5450	5470	5490	5510	5530	5550	5570	5590	5610	5630	5650	5670	5690	5710	5730	5750	5770	5790	5810	5830	5850	5870	5890	5910	5930	5950	5970	5990	6010	6030	6050	6070	6090	6110	6130	6150	6170	6190	6210	6230	6250	6270	6290	6310	6330	6350	6370	6390	6410	6430	6450	6470	6490	6510	6530	6550	6570	6590	6610	6630	6650	6670	6690	6710	6730	6750	6770	6790	6810	6830	6850	6870	6890	6910	6930	6950	6970	6990	7010	7030	7050	7070	7090	7110	7130	7150	7170	7190	7210	7230	7250	7270	7290	7310	7330	7350	7370	7390	7410	7430	7450	7470	7490	7510	7530	7550	7570	7590	7610	7630	7650	7670	7690	7710	7730	7750	7770	7790	7810	7830	7850	7870	7890	7910	7930	7950	7970	7990	8010	8030	8050	8070	8090	8110	8130	8150	8170	8190	8210	8230	8250	8270	8290	8310	8330	8350	8370	8390	8410	8430	8450	8470	8490	8510	8530	8550	8570	8590	8610	8630	8650	8670	8690	8710	8730	8750	8770	8790	8810	8830	8850	8870	8890	8910	8930	8950	8970	8990	9010	9030	9050	9070	9090	9110	9130	9150	9170	9190	9210	9230	9250	9270	9290	9310	9330	9350	9370	9390	9410	9430	9450	9470	9490	9510	9530	9550	9570	9590	9610	9630	9650	9670	9690	9710	9730	9750	9770	9790	9810	9830	9850	9870	9890	9910	9930	9950	9970	9990	10010	10030	10050	10070	10090	10110	10130	10150	10170	10190	10210	10230	10250	10270	10290	10310	10330	10350	10370	10390	10410	10430	10450	10470	10490	10510	10530	10550	10570	10590	10610	10630	10650	10670	10690	10710	10730	10750	10770	10790	10810	10830	10850	10870	10890	10910	10930	10950	10970	10990	11010	11030	11050	11070	11090	11110	11130	11150	11170	11190	11210	11230	11250	11270	11290	11310	11330	11350	11370	11390	11410	11430	11450	11470	11490	11510	11530	11550	11570	11590	11610	11630	11650	11670	11690	11710	11730	11750	11770	11790	11810	11830	11850	11870	11890	11910	11930	11950	11970	11990	12010	12030	12050	12070	12090	12110	12130	12150	12170	12190	12210	12230	12250	12270	12290	12310	12330	12350	12370	12390	12410	12430	12450	12470	12490	12510	12530	12550	12570	12590	12610	12630	12650	12670	12690	12710	12730	12750	12770	12790	12810	12830	12850	12870	12890	12910	12930	12950	12970	12990	13010	13030	13050	13070	13090	13110	13130	13150	13170	13190	13210	13230	13250	13270	13290	13310	13330	13350	13370	13390	13410	13430	13450	13470	13490	13510	13530	13550	13570	13590	13610	13630	13650	13670	13690	13710	13730	13750	13770	13790	13810	13830	13850	13870	13890	13910	13930	13950	13970	13990	14010	14030	14050	14070	14090	14110	14130	14150	14170	14190	14210	14230	14250	14270	14290	14310	14330	14350	14370	14390	14410	14430	14450	14470	14490	14510	14530	14550	14570	14590	14610	14630	14650	14670	14690	14710	14730	14750	14770	14790	14810	14830	14850	14870	14890	14910	14930	14950	14970	14990	15010	15030	15050	15070	15090	15110	15130	15150	15170	15190	15210	15230	15250	15270	15290	15310	15330	15350	15370	15390	15410	15430	15450	15470	15490	15510	15530	15550	15570	15590	15610	15630	15650	15670	15690	15710	15730	15750	15770	15790	15810	15830	15850	15870	15890	15910	15930	15950	15970	15990	16010	16030	16050	16070	16090	16110	16130	16150	16170	16190	16210	16230	16250	16270	16290	16310	16330	16350	16370	16390	16410	16430	16450	16470	16490	16510	16530	16550	16570	16590	16610	16630	16650	16670	16690	16710	16730	16750	16770	16790	16810	16830	16850	16870	16890	16910	16930	16950	16970	16990	17010	17030	17050	17070	17090	17110	17130	17150	17170	17190	17210	17230	17250	17270	17290	17310	17330	17350	17370	17390	17410	17430	17450	17470	17490	17510	17530	17550	17570	17590	17610	17630	17650	17670	17690	17710	17730	17750	17770	17790	17810	17830	17850	17870	17890	17910	17930	17950	17970	17990	18010	18030	18050	18070	18090	18110	18130	18150	18170	18190	18210	18230	18250	18270	18290	18310	18330	18350	18370	18390	18410	18430	18450	18470	18490	18510	18530	185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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 279971 Report

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

Pham number 279971 has 523 members, 75 are drafts.

Phages represented in each track:

- Track 1 : StAugustine_85, Causa_86
- Track 2 : Weher20_60, FriarPreacher_60, EmpTee_60, Pherdinand_62, Suffolk_59, Fringe_64, Swiphy_62, Melc17_60, Boehler_60, Aelin_60, Chuni_63, Vivaldi_62, RedMaple_62, MichaelPhcott_61, Dione_58, Nicole21_61, Manad_60, Numberten_60, Pops_60, BlackStallion_62, FluffyNinja_62, Pipsqueak_59, Windsor_60, Schadenfreude_60, Yoshand_62, SilverBell_61, Cornbread_60, AngelCake_61, ElvisPhasley_62, Olive_60, DelRivs_59, True_59, Doddsville_61, Coletti_63, Etaye_62, Spartan300_60, ProfessorX_60, Dati_60, Virapocalypse_61, Kailash_61, Antonia_60, BlacksBerry_61, Chute_62, Cornobble_60, Soile_61, Chaelin_61, Mecca_60, Virgeve_60, Scrick_61, AbsoluteMadLad_61, Keitherie_62, Sigman_61, Chipette_61, Swish_62, CheetO_60, OSmaximus_62, HogWash_62, Jillium_60, Haleema_59, Eremos_60, JacAttac_62, Brilliant_63, UAch1_60, Omniscient_61, Phareon_59, Iridessa_61, Hartsy_61, Fozzie_61, FleetyMac_63, SallyH_63, LuckyMarjie_58, Phamished_62, Mag7_61, Aonishiki_62, Pacifista_59, PhatLouie_62, LeiMonet_63, Phunky_59, JangoPhett_60, PallasAthena_62, Phleuron_61, SirBeauregard_61, Valjean_60, ShadowBud_61, Kimbrough_61, Hetaeria_60, Lumine_61, Zaider_61, Aleia_63, Morty_61, BatteryCK_61
- Track 3 : Magic8_61, Roy17_59, UncleHowie_59, ThreeOh3D2_62, Bishoperium_60, DoesntMatter_58, Toni_60, PhrodoBaggins_61, LasagnaCat_62, Inchworm_62, Lulumae_58, CampRoach_62, Banjo_59, Colbert_59, Murdoc_59, Orfeu_59
- Track 4 : Mikota_59
- Track 5 : DolOn_66, Buckeye_61, Thora_60, Altwerkus_58, Mesmerelda_60, Tomlarah_61, ShiVal_58, PG1_61, Megamind20_61, Waterdiva_60, Chah_62, Gareth_60, Mulan_60, Serpentine_0060, Nacho_0062, Giraffe_61, Lulwa_58, BoogieWoogie_61, Orion_62, Chorkpop_60, Mcshane_59, Badfish_61, Squid_60, Hertubise_60, ABU_61, Iridoclysis_61, Freya_58, KLUcky39_59, Puhltonio_60, Jesabah_62, Fang_62, Scoot17C_61, Emiris_63, LemonSlice_61, Olak_59, Vaticameos_57, KingTut_53, DaddyDaniels_62, PhatCats2014_61, Phipps_60, Riggan_61, Podrick_59, FugateOSU_61, YouGoGlencoco_61, SassyCat97_59, Megatron_61, FremontTroll_61, Mesh1_62, LostAndPhound_61, Usavi_60, Oosterbaan_60, Plmatters_59, Matalotodo_60, TomBombadil_60, PinheadLarry_61
- Track 6 : Prickles_62, Frankicide_59, Basato_61, Tooj_59, Gyarad_0059, Newman_59, Horchata_59, Adriana_62, Chunky_59, Roscoe_61, OliverWalter_59
- Track 7 : Vista_60, Gwilliam_61, Selr12_61, Eugenia_60, TooFast2Furius_62, Andre_62, Mana_59, Slatt_61, Lego3393_59, Dice_59, Nyala_59, Charles1_61

- Track 8 : Mosaic_59, Zelda_61, Cher_60, Vortex_60, Larson_64, MitKao_60, Legolas_62, Serendipity_60, LeeLot_61, Solosis_59, Timmi_59, MRabcd_60, Hocus_60, Potter_59, Daffy_60, QueenBeane_60, Morgushi_60, Bluephacebaby_60, Gwennie1_60, DuchessDung_62, Lasso_61, Held_60, CamL_60, Telesworld_58, TallGrassMM_60, Xavier_59, Flake_64, Cannibal_60, Happabalu_61, Samaymay_60, DonSancho_58
- Track 9 : Orwigg_60, KlimbOn_60, Ricotta_60
- Track 10 : Riverton_60, Roliet_58
- Track 11 : Derpp_60, Jiminy_61, Labeouficaum_61, TyrionL_61, Schueller_61, GeneCoco_61, CharlieGBrown_61
- Track 12 : DirtJuice_61
- Track 13 : Kikipoo_62, IsaacEli_62
- Track 14 : Sophia_59
- Track 15 : ImtiyazSitla_62, Rimu_60, Ashraf_62, Phergie_62, Grand2040_60, Skippy_61, Trypo_63, PhrankReynolds_60, Durga_63, PhenghisKhan_61, Khan1_61, Anderson_61, Maskar_62, MrPhizzler_63
- Track 16 : Plata_61, JakeO_61, Duggie_61, Struggle_61
- Track 17 : HSavage_59
- Track 18 : Soto_59, MiniBoss_58, Dingo_59, SDcharge11_60, BlueHusk_62, KingVeVeVe_59
- Track 19 : Haimas_59, Hamish_59, Katniss_61
- Track 20 : Simielle_60, Longacauda_61, Kwadwo_59
- Track 21 : Cosmolli16_61, Maru_60
- Track 22 : Carthage_59, Triad_62, Robyn_60, Vaishali24_59
- Track 23 : Pinkman_60, Zonia_62, MelsMeow_61, Wallhey_61, Caspiboi_61
- Track 24 : Surely_60, Childish_60, HenryJackson_60, Kahve_60
- Track 25 : Oline_61
- Track 26 : Mutante_60
- Track 27 : Thunderbird_60, Veritas_62, Jiraiya_61, Kwksand96_61
- Track 28 : JDog_59, Beaglebox_60
- Track 29 : Crownjwl_60, RedRaider89_63
- Track 30 : Lopsy_59
- Track 31 : Cobra_62
- Track 32 : Daka_63
- Track 33 : Quisquilliae_61
- Track 34 : Squiggle_61
- Track 35 : AltPhacts_60
- Track 36 : Inverness_59
- Track 37 : Piglet_0060
- Track 38 : Sheila_58
- Track 39 : Placalicious_61
- Track 40 : HighStump_62
- Track 41 : Apizium_60
- Track 42 : Gophee_62
- Track 43 : Harvey_59
- Track 44 : Lehmann_62
- Track 45 : Craff_63
- Track 46 : Burr_60
- Track 47 : Kloppinator_61
- Track 48 : Nathan_61
- Track 49 : Imvubu_52
- Track 50 : Indlovu_55
- Track 51 : LilMcDreamy_55

- Track 52 : Hashim76_61
- Track 53 : Zenteno07_62
- Track 54 : LittleMinkey_63
- Track 55 : BirdsNest_61
- Track 56 : MasterPo_57, FrenchFry_57, Blocker23_57, Lephleur_57, PrinceCharming_57, Allegro_57, LizLemon_57, Kheth_57
- Track 57 : Bananafish_57, Eaglehorse_57
- Track 58 : Calamitous_57
- Track 59 : Coffee_57, Rhinoforte_57, Opia_57, Ares_57
- Track 60 : Phantasmagoria_57, Faze9_56
- Track 61 : Laurie_57, Vic9_00057
- Track 62 : LilSmirk_57, Arbiter_56
- Track 63 : Tinciduntolum_58, Brownie5_57
- Track 64 : TA17A_58
- Track 65 : Kaleb_57
- Track 66 : Lars_57
- Track 67 : Holeinone_57, Sabella_56
- Track 68 : West99_57
- Track 69 : ItsyBitsy1_57
- Track 70 : Tres_57, Hedgerow_57
- Track 71 : Kolhan_57
- Track 72 : Godines_58
- Track 73 : Qyrzula_52
- Track 74 : Glass_57
- Track 75 : Rosebush_56
- Track 76 : Boyle_57
- Track 77 : Gadget_59
- Track 78 : Devonte_57, Compostia_58, RagingRooster_57, Chalmers_57, Chentzyk_59, Philly_57, Ben11_58, RomaT_58, MmasiCarm_59, Phlyer_58, Briakila_57
- Track 79 : Abinghost_58, Mulaychimus_59, SynergyX_58, Corofin_58, Phayeta_60, SlippinJimmy_60, Casbah_58
- Track 80 : Deenasa_58
- Track 81 : Pipefish_59
- Track 82 : Neos5_58
- Track 83 : Shenandoah_57
- Track 84 : Phaedruss_54, Mortcellus_58
- Track 85 : Athena_60, Audrey_58, Bernardo_59, ChaChing_58, Gervas_59, Marlia_59, Heathcliff_58, Kamiyu_58
- Track 86 : Glubnar_59
- Track 87 : Baloo_58, LestyG_57
- Track 88 : GlenHope_59
- Track 89 : SwainyDoc_59
- Track 90 : Kronus_58, Nozo_58, Akoma_58, OrangeOswald_58, Chandler_58
- Track 91 : Daisy_57
- Track 92 : Morty007_58, Marley1013_59
- Track 93 : Halfpint_57
- Track 94 : TinyTerror_59
- Track 95 : Yahalom_57, Tydolla_56
- Track 96 : Obutu_59, Rita1961_59
- Track 97 : HarveySr_57
- Track 98 : Jackstina_54
- Track 99 : Yinz_58

- Track 100 : Olivio_58
- Track 101 : Xincheng_54, JaguarMi_55
- Track 102 : Renkei_52, LittleDigger_52
- Track 103 : Hally898_52, Ahwei_52, Nanao_52, Lambano_52, Epah_52, GinPorsche_52, Antihero_52, Poster_52
- Track 104 : Hangman_53, JoyceMaria_53, Waleliano_53
- Track 105 : Austelle_54
- Track 106 : VioletZ_55
- Track 107 : BobbyK_54
- Track 108 : BrownCNA_55
- Track 109 : Nigel_54
- Track 110 : Stinger_54
- Track 111 : Cooper_54
- Track 112 : Magpie_52
- Track 113 : Mudslide_53
- Track 114 : RawrgerThat_54
- Track 115 : Fortunato_54
- Track 116 : Apex_54
- Track 117 : ChrisnMich_53
- Track 118 : Hydro_53, Heath_52, Prince_53
- Track 119 : Frederick_54
- Track 120 : Fanaw_52
- Track 121 : Mithril_53
- Track 122 : Vincenzo_56, AlanGrant_57
- Track 123 : QueenPie_51
- Track 124 : Lolalove_54
- Track 125 : JAMaL_53
- Track 126 : Zemanar_54
- Track 127 : Nehemiah_57
- Track 128 : StinkyVeggy_58, KarasumaRum_58
- Track 129 : Suigeneris_59, Donny_59
- Track 130 : SirJeffery_57
- Track 131 : Reccee_58
- Track 132 : Acadian_58
- Track 133 : Phelemich_56, Reprobate_57
- Track 134 : Mysterious_56
- Track 135 : Rita130_57
- Track 136 : Nangang_58
- Track 137 : EastView9101_57
- Track 138 : Baee_59
- Track 139 : DigitDog_58
- Track 140 : Shenyu_58
- Track 141 : Rich_58
- Track 142 : Serendipitous_56
- Track 143 : Jolie1_052
- Track 144 : 40BC_051, 39HC_051
- Track 145 : ForDig_52
- Track 146 : KayaCho_51
- Track 147 : Hosp_050
- Track 148 : Saguaro_58
- Track 149 : Thonko_60
- Track 150 : Knocker_59
- Track 151 : Quesadilla_58

- Track 152 : PenguinLover67_56
- Track 153 : Rinkes_56
- Track 154 : CRB2_57
- Track 155 : Funsized_59
- Track 156 : Upyo_46
- Track 157 : Morrissey_47
- Track 158 : Mahdia_44
- Track 159 : Gustav_47
- Track 160 : Applejacks_45
- Track 161 : Puppies_42
- Track 162 : Trine_42
- Track 163 : Widow_43
- Track 164 : Sour_53
- Track 165 : Fresco_51, Axumite_51
- Track 166 : Blackpen_53, CloverMinnie_53
- Track 167 : AnarQue_54
- Track 168 : Evaa_50
- Track 169 : Wooper_54, TraderJ_54
- Track 170 : AnClar_50, Sisko_49, Yago84_49
- Track 171 : BobRoss2024_51
- Track 172 : AksarBAT_53
- Track 173 : Mariokart_50
- Track 174 : MakoManhole_51
- Track 175 : LittleMunchkin_52
- Track 176 : CaiB_54
- Track 177 : Shatter_51, Ligma_51
- Track 178 : Coldpizza_51
- Track 179 : CharlottesWeb_50
- Track 180 : NHagos_52
- Track 181 : BiggityBass_49
- Track 182 : FelixTres_53
- Track 183 : MossRose_53
- Track 184 : Yeshua_54
- Track 185 : EmiRose_34
- Track 186 : Pine5_49
- Track 187 : TPA2_63
- Track 188 : BFK20_ORF44

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

The start number called the most often in the published annotations is 105, it was called in 315 of the 448 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU_61, AbsoluteMadLad_61, Adriana_62, Aelin_60, Aleia_63, Allegro_57, AltPhacts_60, Altwerkus_58, Anderson_61, Andre_62, AngelCake_61, Antonia_60, Aonishiki_62, Apizium_60, Arbiter_56, Ares_57, Ashraf_62, Badfish_61, Bananafish_57, Banjo_59, Basato_61, BatteryCK_61, Beaglebox_60, Bishoperium_60, BlackStallion_62, BlacksBerry_61, Blocker23_57, BlueHusk_62, Bluephacebaby_60, Boehler_60, BoogieWoogie_61, Boyle_57, Brilliant_63,

Brownie5_57, Buckeye_61, Burr_60, Calamitous_57, CamL_60, CampRoach_62, Cannibal_60, Carthage_59, Caspiroi_61, Chaelin_61, Chah_62, Charles1_61, CharlieGBrown_61, CheetO_60, Cher_60, Childish_60, Chipette_61, Chorkpop_60, Chuni_63, Chunky_59, Chute_62, Cobra_62, Coffee_57, Colbert_59, Coletti_63, Cornbread_60, Cornobble_60, Cosmolli16_61, Craff_63, Crownjwl_60, DaddyDaniels_62, Daffy_60, Daka_63, Dati_60, DelRivs_59, Derpp_60, Dice_59, Dingo_59, Dione_58, DirtJuice_61, Doddsville_61, DoesntMatter_58, DolOn_66, DonSancho_58, DuchessDung_62, Duggie_61, Durga_63, Eaglehorse_57, ElvisPhasley_62, Emiris_63, EmpTee_60, Eremos_60, Etaye_62, Eugenia_60, Fang_62, Faze9_56, Flake_64, FleetyMac_63, FluffyNinja_62, Fozzie_61, Frankicide_59, FremontTroll_61, FrenchFry_57, Freya_58, FriarPreacher_60, Fringe_64, FugateOSU_61, Gareth_60, GeneCoco_61, Giraffe_61, Glass_57, Godines_58, Gophee_62, Grand2040_60, Gwennie1_60, Gwilliam_61, Gyarad_0059, HSavage_59, Haimas_59, Haleema_59, Hamish_59, Happabalu_61, Hartsy_61, Harvey_59, Hedgerow_57, Held_60, HenryJackson_60, Hertubise_60, Hetaeria_60, HighStump_62, Hocus_60, HogWash_62, Holeinone_57, Horchata_59, ImtiyazSitla_62, Inchworm_62, Inverness_59, Iridessa_61, Iridoclysis_61, IsaacEli_62, ItsyBitsy1_57, JDog_59, JacAttac_62, JakeO_61, JangoPhett_60, Jesabah_62, Jillium_60, Jiminy_61, Jiraiya_61, KLucky39_59, Kahve_60, Kailash_61, Kaleb_57, Katniss_61, Keitherie_62, Khan1_61, Kheth_57, Kikipoo_62, Kimbrough_61, KingTut_53, KingVeVeVe_59, KlimbOn_60, Kloppinator_61, Kolhan_57, Kwadwo_59, Kwksand96_61, Labeouficaum_61, Lars_57, Larson_64, LasagnaCat_62, Lasso_61, Laurie_57, LeeLot_61, Lego3393_59, Legolas_62, Lehmann_62, LeiMonet_63, LemonSlice_61, Lephleur_57, LilSmirk_57, LizLemon_57, Longacauda_61, Lopsy_59, LostAndPhound_61, LuckyMarjie_58, Lulmae_58, Lulwa_58, Lumine_61, MRabcd_60, Mag7_61, Magic8_61, Mana_59, Manad_60, Maru_60, Maskar_62, MasterPo_57, Matalotodo_60, Mcshane_59, Mecca_60, Megamind20_61, Megatron_61, Melc17_60, MelsMeow_61, Mesh1_62, Mesmerelda_60, MichaelPhcott_61, Mikota_59, MiniBoss_58, MitKao_60, Morgushi_60, Morty_61, Mosaic_59, MrPhizzler_63, Mulan_60, Murdoc_59, Mutante_60, Nacho_0062, Nathan_61, Newman_59, Nicole21_61, Numberben_60, Nyala_59, OSmaximus_62, Olak_59, Oline_61, Olive_60, OliverWalter_59, Omniscient_61, Oosterbaan_60, Opia_57, Orfeu_59, Orion_62, Orwigg_60, PG1_61, Pacifista_59, PallasAthena_62, Phamished_62, Phantasmagoria_57, Phareon_59, PhatCats2014_61, PhatLouie_62, PhenghisKhan_61, Pherdinand_62, Phergie_62, Phipps_60, Phleuron_61, PhrankReynolds_60, PhrodoBaggins_61, Phunky_59, PinheadLarry_61, Pinkman_60, Pipsqueak_59, Placalicious_61, Plata_61, Plmatters_59, Podrick_59, Pops_60, Potter_59, Prickles_62, PrinceCharming_57, ProfessorX_60, Puhltonio_60, QueenBeane_60, Quisquillae_61, RedMaple_62, RedRaider89_63, Rhinoforte_57, Ricotta_60, Riggan_61, Rimu_60, Riverton_60, Robyn_60, Roliet_58, Roscoe_61, Rosebush_56, Roy17_59, SDcharge11_60, Sabella_56, Saguaro_58, SallyH_63, Samaymay_60, SassyCat97_59, Schadenfreude_60, Schueller_61, Scoot17C_61, Scrick_61, Selr12_61, Serendipity_60, Serpentine_0060, ShadowBud_61, Sheila_58, ShiVal_58, Sigman_61, SilverBell_61, Simielle_60, SirBeauregard_61, Skippy_61, Slatt_61, Soile_61, Solosis_59, Sophia_59, Soto_59, Spartan300_60, Squid_60, Squiggle_61, Struggle_61, Suffolk_59, Surely_60, Swiphy_62, Swish_62, TA17A_58, TallGrassMM_60, Telesworld_58, Thora_60, ThreeOh3D2_62, Thunderbird_60, Timmi_59, Tinciduntolum_58, TomBombadil_60, Tomlara_61, Toni_60, TooFast2Furius_62, Tooj_59, Tres_57, Triad_62, True_59, Trypo_63, TyrionL_61, UAch1_60, UncleHowie_59, Usavi_60, Vaishali24_59, Valjean_60, Vaticameos_57, Veritas_62, Vic9_00057, Virapocalypse_61, Virgeve_60, Vista_60, Vivaldi_62, Vortex_60, Wallhey_61, Waterdiva_60, Weher20_60, West99_57, Windsor_60,

Xavier_59, Yoshand_62, YouGoGlencoco_61, Zaider_61, Zelda_61, Zonia_62,

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

- Piglet_0060, Qyrzula_52,

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

- 39HC_051, 40BC_051, Abinghost_58, Acadian_58, Ahwei_52, Akoma_58, AksarBAT_53, AlanGrant_57, AnClar_50, AnarQue_54, Antihero_52, Apex_54, Applejacks_45, Athena_60, Audrey_58, Austelle_54, Axumite_51, BFK20_ORF44, Bae_59, Baloo_58, Ben11_58, Bernardo_59, BiggityBass_49, BirdsNest_61, Blackpen_53, BobRoss2024_51, BobbyK_54, Briakila_57, BrownCNA_55, CRB2_57, CaiB_54, Casbah_58, Causa_86, ChaChing_58, Chalmers_57, Chandler_58, CharlottesWeb_50, Chentzyk_59, ChrisnMich_53, CloverMinnie_53, Coldpizza_51, Compostia_58, Cooper_54, Corofin_58, Daisy_57, Deenasa_58, Devonte_57, DigitDog_58, Donny_59, EastView9101_57, EmiRose_34, Epah_52, Evaa_50, Fanaw_52, FelixTres_53, ForDig_52, Fortunato_54, Frederick_54, Fresco_51, Funsized_59, Gadget_59, Gervas_59, GinPorsche_52, GlenHope_59, Glubnar_59, Gustav_47, Halfpint_57, Hally898_52, Hangman_53, HarveySr_57, Hashim76_61, Heath_52, Heathcliff_58, Hosp_050, Hydro_53, Imvubu_52, Indlovu_55, JAMaL_53, Jackstina_54, JaguarMi_55, Jolie1_052, JoyceMaria_53, Kamiyu_58, KarasumaRum_58, KayaCho_51, Klocker_59, Kronus_58, Lambano_52, LestyG_57, Ligma_51, LilMcDreamy_55, LittleDigger_52, LittleMinkey_63, LittleMunchkin_52, Lolalove_54, Magpie_52, Mahdia_44, MakoManhole_51, Mariokart_50, Marley1013_59, Marlia_59, Mithril_53, MmasiCarm_59, Morrissey_47, Mortcellus_58, Morty007_58, MossRose_53, Mudslide_53, Mulaychimus_59, Mysterious_56, NHagos_52, Nanao_52, Nangang_58, Nehemiah_57, Neos5_58, Nigel_54, Nozo_58, Obutu_59, Olivio_58, OrangeOswald_58, PenguinLover67_56, Phaedrus_54, Phayeta_60, Phelémich_56, Philly_57, Phlyer_58, Pine5_49, Pipefish_59, Poster_52, Prince_53, Puppies_42, QueenPie_51, Quesadilla_58, RagingRooster_57, RawrgerThat_54, Reccee_58, Renkei_52, Reprobate_57, Rich_58, Rinkes_56, Rita130_57, Rita1961_59, RomaT_58, Serendipitous_56, Shatter_51, Shenandoah_57, Shenyu_58, SirJeffery_57, Sisko_49, SlippinJimmy_60, Sour_53, StAugustine_85, Stinger_54, StinkyVeggy_58, Suigeneris_59, SwainyDoc_59, SynergyX_58, TPA2_63, Thonko_60, TinyTerror_59, TraderJ_54, Trine_42, Tydolla_56, Upyo_46, Vincenzo_56, VioletZ_55, Waleliano_53, Widow_43, Wooper_54, Xincheng_54, Yago84_49, Yahalom_57, Yeshua_54, Yinz_58, Zemanar_54, Zenteno07_62,

Summary by start number:

Start 9:

- Found in 5 of 523 (1.0%) of genes in pham
- Manual Annotations of this start: 5 of 448
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gustav_47 (CD), Mahdia_44 (CD), Morrissey_47 (CD), Puppies_42 (CD), Widow_43 (CD),

Start 12:

- Found in 1 of 523 (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: Applejacks_45 (CD),

Start 13:

- Found in 1 of 523 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 448
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Upyo_46 (CD),

Start 87:

- Found in 5 of 523 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 448
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Trine_42 (CD),

Start 96:

- Found in 2 of 523 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 448
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JAMaL_53 (B4), Nigel_54 (B4),

Start 97:

- Found in 348 of 523 (66.5%) of genes in pham
- Manual Annotations of this start: 5 of 448
- Called 2.9% of time when present
- Phage (with cluster) where this start called: BrownCNA_55 (B4), ChrisnMich_53 (B4), DigitDog_58 (B5), Fortunato_54 (B4), Frederick_54 (B4), KarasumaRum_58 (B5), Nangang_58 (B5), Piglet_0060 (B1), Shenyu_58 (B5), StinkyVeggy_58 (B5),

Start 98:

- Found in 1 of 523 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 448
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Imvubu_52 (B10),

Start 99:

- Found in 16 of 523 (3.1%) of genes in pham
- Manual Annotations of this start: 12 of 448
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Acadian_58 (B5), Baee_59 (B5), Donny_59 (B5), EastView9101_57 (B5), LilMcDreamy_55 (B12), Mysterious_56 (B5), Nehemiah_57 (B5), Phelemich_56 (B5), Reccee_58 (B5), Reprobate_57 (B5), Rich_58 (B5), Rita130_57 (B5), Serendipitous_56 (B5), Stinger_54 (B4), Suigeneris_59 (B5),

Start 101:

- Found in 36 of 523 (6.9%) of genes in pham
- Manual Annotations of this start: 17 of 448
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Ahwei_52 (B4), AlanGrant_57 (B4), Antihero_52 (B4), Apex_54 (B4), Austelle_54 (B4), BobbyK_54 (B4), Cooper_54 (B4), Epah_52 (B4), Fanaw_52 (B4), GinPorsche_52 (B4), Hally898_52 (B4), Hangman_53 (B4), Heath_52 (B4), Hydro_53 (B4), JaguarMi_55 (B4), JoyceMaria_53 (B4), Lambano_52 (B4), LittleDigger_52 (B4), Lolalove_54 (B4), Magpie_52 (B4), Mithril_53 (B4), Mudslide_53 (B4), Nanao_52 (B4), Poster_52 (B4), Prince_53 (B4), QueenPie_51 (B4), RawrgerThat_54 (B4), Renkei_52 (B4), Vincenzo_56 (B4),

VioletZ_55 (B4), Waleliano_53 (B4), Xincheng_54 (B4),

Start 102:

- Found in 1 of 523 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 448
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EmiRose_34 (singleton),

Start 103:

- Found in 10 of 523 (1.9%) of genes in pham
- Manual Annotations of this start: 5 of 448
- Called 90.0% of time when present
- Phage (with cluster) where this start called: 39HC_051 (B6), 40BC_051 (B6), ForDig_52 (B6), Funsized_59 (B9), Hosp_050 (B6), Jolie1_052 (B6), KayaCho_51 (B6), Knocker_59 (B9), Rinkes_56 (B9),

Start 104:

- Found in 2 of 523 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 448
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zemanar_54 (B4),

Start 105:

- Found in 347 of 523 (66.3%) of genes in pham
- Manual Annotations of this start: 315 of 448
- Called 99.4% of time when present
- Phage (with cluster) where this start called: ABU_61 (B1), AbsoluteMadLad_61 (B1), Adriana_62 (B1), Aelin_60 (B1), Aleia_63 (B1), Allegro_57 (B2), AltPhacts_60 (B1), Altwerkus_58 (B1), Anderson_61 (B1), Andre_62 (B1), AngelCake_61 (B1), Antonia_60 (B1), Aonishiki_62 (B1), Apizium_60 (B1), Arbiter_56 (B2), Ares_57 (B2), Ashraf_62 (B1), Badfish_61 (B1), Bananafish_57 (B2), Banjo_59 (B1), Basato_61 (B1), BatteryCK_61 (B1), Beaglebox_60 (B1), Bishoperium_60 (B1), BlackStallion_62 (B1), Blackberry_61 (B1), Blocker23_57 (B2), BlueHusk_62 (B1), Bluephacebaby_60 (B1), Boehler_60 (B1), BoogieWoogie_61 (B1), Boyle_57 (B2), Brilliant_63 (B1), Brownie5_57 (B2), Buckeye_61 (B1), Burr_60 (B1), Calamitous_57 (B2), CamL_60 (B1), CampRoach_62 (B1), Cannibal_60 (B1), Carthage_59 (B1), Caspiboi_61 (B1), Chaelin_61 (B1), Chah_62 (B1), Charles1_61 (B1), CharlieGBrown_61 (B1), CheetO_60 (B1), Cher_60 (B1), Childish_60 (B1), Chipette_61 (B1), Chorkpop_60 (B1), Chuni_63 (B1), Chunky_59 (B1), Chute_62 (B1), Cobra_62 (B1), Coffee_57 (B2), Colbert_59 (B1), Coletti_63 (B1), Cornbread_60 (B1), Cornobble_60 (B1), Cosmolli16_61 (B1), Craff_63 (B1), Crownjwl_60 (B1), DaddyDaniels_62 (B1), Daffy_60 (B1), Daka_63 (B1), Dati_60 (B1), DelRivs_59 (B1), Derpp_60 (B1), Dice_59 (B1), Dingo_59 (B1), Dione_58 (B1), DirtJuice_61 (B1), Doddsville_61 (B1), DoesntMatter_58 (B1), DolOn_66 (B1), DonSancho_58 (B1), DuchessDung_62 (B1), Duggie_61 (B1), Durga_63 (B1), Eaglehorse_57 (B2), ElvisPhasley_62 (B1), Emiris_63 (B1), EmpTee_60 (B1), Eremos_60 (B1), Etaye_62 (B1), Eugenia_60 (B1), Fang_62 (B1), Faze9_56 (B2), Flake_64 (B1), FleetyMac_63 (B1), FluffyNinja_62 (B1), Fozzie_61 (B1), Frankicide_59 (B1), FremontTroll_61 (B1), FrenchFry_57 (B2), Freya_58 (B1), FriarPreacher_60 (B1), Fringe_64 (B1), FugateOSU_61 (B1), Gareth_60 (B1), GeneCoco_61 (B1), Giraffe_61 (B1), Glass_57 (B2), Godines_58 (B2), Gophee_62 (B1), Grand2040_60 (B1), Gwennie1_60 (B1), Gwilliam_61 (B1), Gyarad_0059 (B1), HSavage_59 (B1), Haimas_59 (B1), Haleema_59 (B1), Hamish_59 (B1),

Happabalu_61 (B1), Hartsy_61 (B1), Harvey_59 (B1), Hedgerow_57 (B2), Held_60 (B1), HenryJackson_60 (B1), Hertubise_60 (B1), Hetaeria_60 (B1), HighStump_62 (B1), Hocus_60 (B1), HogWash_62 (B1), Holeinone_57 (B2), Horchata_59 (B1), ImtiyazSitla_62 (B1), Inchworm_62 (B1), Inverness_59 (B1), Iridessa_61 (B1), Iridoclysis_61 (B1), IsaacEli_62 (B1), ItsyBitsy1_57 (B2), JDog_59 (B1), JacAttac_62 (B1), JakeO_61 (B1), JangoPhett_60 (B1), Jesabah_62 (B1), Jilium_60 (B1), Jiminy_61 (B1), Jiraiya_61 (B1), K_Lucky39_59 (B1), Kahve_60 (B1), Kailash_61 (B1), Kaleb_57 (B2), Katniss_61 (B1), Keitherie_62 (B1), Khan1_61 (B1), Kheth_57 (B2), Kikipoo_62 (B1), Kimbrough_61 (B1), KingTut_53 (B1), KingVeVeVe_59 (B1), KlimbOn_60 (B1), Kloppinator_61 (B1), Kolhan_57 (B2), Kwadwo_59 (B1), Kwksand96_61 (B1), Labeouficaum_61 (B1), Lars_57 (B2), Larson_64 (B1), LasagnaCat_62 (B1), Lasso_61 (B1), Laurie_57 (B2), LeeLot_61 (B1), Lego3393_59 (B1), Legolas_62 (B1), Lehmann_62 (B1), LeiMonet_63 (B1), LemonSlice_61 (B1), Lephleur_57 (B2), LilSmirk_57 (B2), LizLemon_57 (B2), Longacauda_61 (B1), Lopsy_59 (B1), LostAndPhound_61 (B1), LuckyMarjie_58 (B1), Lulumae_58 (B1), Lulwa_58 (B1), Lumine_61 (B1), MRabcd_60 (B1), Mag7_61 (B1), Magic8_61 (B1), Mana_59 (B1), Manad_60 (B1), Maru_60 (B1), Maskar_62 (B1), MasterPo_57 (B2), Matalotodo_60 (B1), Mcshane_59 (B1), Mecca_60 (B1), Megamind20_61 (B1), Megatron_61 (B1), Melc17_60 (B1), MelsMeow_61 (B1), Mesh1_62 (B1), Mesmereida_60 (B1), MichaelPhcott_61 (B1), Mikota_59 (B1), MiniBoss_58 (B1), MitKao_60 (B1), Morgushi_60 (B1), Morty_61 (B1), Mosaic_59 (B1), MrPhizzler_63 (B1), Mulan_60 (B1), Murdoc_59 (B1), Mutante_60 (B1), Nacho_0062 (B1), Nathan_61 (B1), Newman_59 (B1), Nicole21_61 (B1), Numberten_60 (B1), Nyala_59 (B1), O_Smaximus_62 (B1), Olak_59 (B1), Oline_61 (B1), Olive_60 (B1), OliverWalter_59 (B1), Omniscient_61 (B1), Oosterbaan_60 (B1), Opia_57 (B2), Orfeu_59 (B1), Orion_62 (B1), Orwigg_60 (B1), PG1_61 (B1), Pacifista_59 (B1), PallasAthena_62 (B1), Phamished_62 (B1), Phantasmagoria_57 (B2), Phareon_59 (B1), PhatCats2014_61 (B1), PhatLouie_62 (B1), PhenghisKhan_61 (B1), Pherdinand_62 (B1), Phergie_62 (B1), Phipps_60 (B1), Phleuron_61 (B1), PhrankReynolds_60 (B1), PhrodoBaggins_61 (B1), Phunky_59 (B1), PinheadLarry_61 (B1), Pinkman_60 (B1), Pipsqueak_59 (B1), Placalicious_61 (B1), Plata_61 (B1), Plmatters_59 (B1), Podrick_59 (B1), Pops_60 (B1), Potter_59 (B1), Prickles_62 (B1), PrinceCharming_57 (B2), ProfessorX_60 (B1), Puhltonio_60 (B1), QueenBeane_60 (B1), Quisquiliae_61 (B1), RedMaple_62 (B1), RedRaider89_63 (B1), Rhinoforte_57 (B2), Ricotta_60 (B1), Riggan_61 (B1), Rimu_60 (B1), Riverton_60 (B1), Robyn_60 (B1), Roliet_58 (B1), Roscoe_61 (B1), Rosebush_56 (B2), Roy17_59 (B1), SDcharge11_60 (B1), Sabella_56 (B2), Saguaro_58 (B7), SallyH_63 (B1), Samaymay_60 (B1), SassyCat97_59 (B1), Schadenfreude_60 (B1), Schueller_61 (B1), Scoot17C_61 (B1), Scrick_61 (B1), Selr12_61 (B1), Serendipity_60 (B1), Serpentine_0060 (B1), ShadowBud_61 (B1), Sheila_58 (B1), ShiVal_58 (B1), Sigman_61 (B1), SilverBell_61 (B1), Simielle_60 (B1), SirBeauregard_61 (B1), Skippy_61 (B1), Slatt_61 (B1), Soile_61 (B1), Solosis_59 (B1), Sophia_59 (B1), Soto_59 (B1), Spartan300_60 (B1), Squid_60 (B1), Squiggle_61 (B1), Struggle_61 (B1), Suffolk_59 (B1), Surely_60 (B1), Swiphy_62 (B1), Swish_62 (B1), TA17A_58 (B2), TallGrassMM_60 (B1), Telesworld_58 (B1), Thora_60 (B1), ThreeOh3D2_62 (B1), Thunderbird_60 (B1), Timmi_59 (B1), Tinciduntolum_58 (B2), TomBombadil_60 (B1), Tomlarah_61 (B1), Toni_60 (B1), TooFast2Furius_62 (B1), Tooj_59 (B1), Tres_57 (B2), Triad_62 (B1), True_59 (B1), Trypo_63 (B1), TyrionL_61 (B1), UAch1_60 (B1), UncleHowie_59 (B1), Usavi_60 (B1), Vaishali24_59 (B1), Valjean_60 (B1), Vaticameos_57 (B1), Veritas_62 (B1), Vic9_00057 (B2), Virapocalypse_61 (B1), Virgeve_60 (B1), Vista_60 (B1), Vivaldi_62 (B1), Vortex_60 (B1), Wallhey_61 (B1), Waterdiva_60 (B1), Weher20_60 (B1), West99_57 (B2), Windsor_60 (B1), Xavier_59 (B1), Yoshand_62 (B1),

YouGoGlencoco_61 (B1), Zaider_61 (B1), Zelda_61 (B1), Zonia_62 (B1),

Start 106:

- Found in 5 of 523 (1.0%) of genes in pham
- Manual Annotations of this start: 3 of 448
- Called 80.0% of time when present
- Phage (with cluster) where this start called: BFK20_ORF44 (singleton), CRB2_57 (B9), Indlovu_55 (B11), Quesadilla_58 (B9),

Start 108:

- Found in 3 of 523 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 448
- Called 66.7% of time when present
- Phage (with cluster) where this start called: PenguinLover67_56 (B9), Thonko_60 (B8),

Start 110:

- Found in 4 of 523 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 448
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_61 (B13), Hashim76_61 (B13), LittleMinkey_63 (B13), Zenteno07_62 (B13),

Start 111:

- Found in 6 of 523 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 448
- Called 83.3% of time when present
- Phage (with cluster) where this start called: AnClar_50 (DR), BiggityBass_49 (DR), LittleMunchkin_52 (DR), Sisko_49 (DR), Yago84_49 (DR),

Start 114:

- Found in 1 of 523 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 448
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coldpizza_51 (DR),

Start 115:

- Found in 25 of 523 (4.8%) of genes in pham
- Manual Annotations of this start: 14 of 448
- Called 88.0% of time when present
- Phage (with cluster) where this start called: AksarBAT_53 (DR), AnarQue_54 (DR), Axumite_51 (DR), Blackpen_53 (DR), BobRoss2024_51 (DR), CaiB_54 (DR), CharlottesWeb_50 (DR), CloverMinnie_53 (DR), Evaa_50 (DR), FelixTres_53 (DR), Fresco_51 (DR), Ligma_51 (DR), MakoManhole_51 (DR), Mariokart_50 (DR), MossRose_53 (DR), NHagos_52 (DR), Pine5_49 (singleton), Shatter_51 (DR), TPA2_63 (singleton), TraderJ_54 (DR), Wooper_54 (DR), Yeshua_54 (DR),

Start 116:

- Found in 317 of 523 (60.6%) of genes in pham
- Manual Annotations of this start: 6 of 448
- Called 2.2% of time when present
- Phage (with cluster) where this start called: Causa_86 (AI), Glubnar_59 (B3), HarveySr_57 (B3), StAugustine_85 (AI), SwainyDoc_59 (B3), TinyTerror_59 (B3),

Yinz_58 (B3),

Start 117:

- Found in 63 of 523 (12.0%) of genes in pham
- Manual Annotations of this start: 46 of 448
- Called 82.5% of time when present
- Phage (with cluster) where this start called: Abinghost_58 (B3), Akoma_58 (B3), Athena_60 (B3), Audrey_58 (B3), Baloo_58 (B3), Ben11_58 (B3), Bernardo_59 (B3), Briakila_57 (B3), Casbah_58 (B3), ChaChing_58 (B3), Chalmers_57 (B3), Chandler_58 (B3), Chentzyk_59 (B3), Compostia_58 (B3), Corofin_58 (B3), Daisy_57 (B3), Deenasa_58 (B3), Devonte_57 (B3), Gadjet_59 (B3), Gervas_59 (B3), GlenHope_59 (B3), Halfpint_57 (B3), Heathcliff_58 (B3), Jackstina_54 (B3), Kamiyu_58 (B3), Kronus_58 (B3), LestyG_57 (B3), Marley1013_59 (B3), Marlia_59 (B3), MmasiCarm_59 (B3), Mortcellus_58 (B3), Morty007_58 (B3), Mulaychimus_59 (B3), Neos5_58 (B3), Nozo_58 (B3), Obutu_59 (B3), Olivio_58 (B3), OrangeOswald_58 (B3), Phaedrus_54 (B3), Phayeta_60 (B3), Philly_57 (B3), Phlyer_58 (B3), Pipefish_59 (B3), RagingRooster_57 (B3), Rita1961_59 (B3), RomaT_58 (B3), Shenandoah_57 (B3), SirJeffery_57 (B5), SlippinJimmy_60 (B3), SynergyX_58 (B3), Tydolla_56 (B3), Yahalom_57 (B3),

Start 118:

- Found in 406 of 523 (77.6%) of genes in pham
- Manual Annotations of this start: 2 of 448
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Qyrzula_52 (B2), Sour_53 (DR),

Summary by clusters:

There are 17 clusters represented in this pham: singleton, B10, A1, B8, B11, CD, B4, B5, B6, B7, B12, B1, B2, B3, DR, B9, B13,

Info for manual annotations of cluster A1:

- Start number 116 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster B1:

- Start number 97 was manually annotated 1 time for cluster B1.
- Start number 105 was manually annotated 279 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 98 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 106 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 99 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 110 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 105 was manually annotated 35 times for cluster B2.
- Start number 118 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:

- Start number 116 was manually annotated 4 times for cluster B3.
- Start number 117 was manually annotated 46 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 96 was manually annotated 2 times for cluster B4.
- Start number 97 was manually annotated 4 times for cluster B4.
- Start number 99 was manually annotated 1 time for cluster B4.
- Start number 101 was manually annotated 17 times for cluster B4.
- Start number 104 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:

- Start number 99 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 103 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 105 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 108 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 103 was manually annotated 3 times for cluster B9.
- Start number 106 was manually annotated 2 times for cluster B9.
- Start number 108 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster CD:

- Start number 9 was manually annotated 5 times for cluster CD.
- Start number 13 was manually annotated 1 time for cluster CD.
- Start number 87 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DR:

- Start number 111 was manually annotated 5 times for cluster DR.
- Start number 114 was manually annotated 1 time for cluster DR.
- Start number 115 was manually annotated 14 times for cluster DR.
- Start number 118 was manually annotated 1 time for cluster DR.

Gene Information:

Gene: 39HC_051 Start: 52288, Stop: 50447, Start Num: 103

Candidate Starts for 39HC_051:

(55, 52552), (58, 52537), (Start: 103 @52288 has 5 MA's), (120, 52231), (123, 52216), (157, 52042), (167, 51991), (168, 51988), (172, 51967), (180, 51916), (181, 51910), (185, 51892), (192, 51850), (193, 51847), (199, 51817), (214, 51724), (218, 51688), (219, 51676), (237, 51562), (242, 51538), (243, 51535), (272, 51304), (283, 51235), (284, 51217), (287, 51199), (292, 51142), (302, 51034), (303, 51028), (305, 51019), (309, 50956), (313, 50920), (314, 50917), (317, 50902), (326, 50824), (327, 50812), (329, 50791), (330, 50785), (337, 50752), (342, 50722), (345, 50707), (349, 50686), (351, 50662), (355, 50638), (361, 50599), (362, 50587), (363, 50584), (364, 50581), (365, 50569),

(369, 50545), (381, 50473),

Gene: 40BC_051 Start: 52288, Stop: 50447, Start Num: 103

Candidate Starts for 40BC_051:

(55, 52552), (58, 52537), (Start: 103 @52288 has 5 MA's), (120, 52231), (123, 52216), (157, 52042), (167, 51991), (168, 51988), (172, 51967), (180, 51916), (181, 51910), (185, 51892), (192, 51850), (193, 51847), (199, 51817), (214, 51724), (218, 51688), (219, 51676), (237, 51562), (242, 51538), (243, 51535), (272, 51304), (283, 51235), (284, 51217), (287, 51199), (292, 51142), (302, 51034), (303, 51028), (305, 51019), (309, 50956), (313, 50920), (314, 50917), (317, 50902), (326, 50824), (327, 50812), (329, 50791), (330, 50785), (337, 50752), (342, 50722), (345, 50707), (349, 50686), (351, 50662), (355, 50638), (361, 50599), (362, 50587), (363, 50584), (364, 50581), (365, 50569), (369, 50545), (381, 50473),

Gene: ABU_61 Start: 54532, Stop: 52673, Start Num: 105

Candidate Starts for ABU_61:

(Start: 97 @54556 has 5 MA's), (Start: 105 @54532 has 315 MA's), (Start: 116 @54508 has 6 MA's), (Start: 118 @54502 has 2 MA's), (123, 54460), (125, 54439), (149, 54325), (151, 54319), (155, 54289), (167, 54229), (171, 54208), (180, 54154), (183, 54142), (186, 54124), (188, 54112), (207, 54007), (214, 53950), (218, 53914), (219, 53902), (225, 53875), (229, 53848), (231, 53830), (233, 53812), (241, 53773), (242, 53764), (243, 53761), (275, 53503), (289, 53401), (292, 53368), (295, 53347), (303, 53254), (305, 53245), (309, 53182), (313, 53146), (314, 53143), (317, 53128), (326, 53050), (327, 53038), (329, 53017), (337, 52978), (351, 52888), (354, 52870), (355, 52864), (357, 52849), (361, 52825), (363, 52810), (364, 52807), (365, 52795), (369, 52771), (378, 52723), (381, 52699),

Gene: Abinghost_58 Start: 53637, Stop: 51820, Start Num: 117

Candidate Starts for Abinghost_58:

(75, 53820), (Start: 117 @53637 has 46 MA's), (120, 53607), (159, 53427), (185, 53274), (187, 53262), (192, 53232), (194, 53226), (207, 53163), (208, 53157), (214, 53106), (218, 53070), (226, 53022), (243, 52917), (257, 52821), (265, 52770), (282, 52626), (287, 52587), (290, 52557), (292, 52530), (294, 52518), (302, 52422), (303, 52416), (305, 52407), (306, 52395), (311, 52323), (313, 52293), (317, 52275), (318, 52266), (326, 52197), (327, 52185), (329, 52164), (342, 52095), (345, 52080), (350, 52056), (351, 52035), (354, 52017), (355, 52011), (360, 51978), (361, 51972), (364, 51954), (365, 51942), (367, 51930), (369, 51918), (376, 51876), (381, 51846),

Gene: AbsoluteMadLad_61 Start: 54486, Stop: 52627, Start Num: 105

Candidate Starts for AbsoluteMadLad_61:

(Start: 97 @54510 has 5 MA's), (Start: 105 @54486 has 315 MA's), (Start: 116 @54462 has 6 MA's), (Start: 118 @54456 has 2 MA's), (123, 54414), (125, 54393), (149, 54279), (151, 54273), (155, 54243), (167, 54183), (171, 54162), (180, 54108), (183, 54096), (186, 54078), (188, 54066), (207, 53961), (214, 53904), (218, 53868), (219, 53856), (224, 53832), (226, 53820), (229, 53802), (231, 53784), (233, 53766), (241, 53727), (242, 53718), (243, 53715), (244, 53712), (289, 53355), (292, 53322), (295, 53301), (303, 53208), (305, 53199), (309, 53136), (313, 53100), (314, 53097), (317, 53082), (326, 53004), (327, 52992), (329, 52971), (337, 52932), (351, 52842), (354, 52824), (355, 52818), (357, 52803), (361, 52779), (363, 52764), (364, 52761), (365, 52749), (369, 52725), (378, 52677), (381, 52653),

Gene: Acadian_58 Start: 54470, Stop: 52644, Start Num: 99

Candidate Starts for Acadian_58:

(Start: 99 @54470 has 12 MA's), (120, 54416), (135, 54356), (158, 54245), (167, 54197), (186, 54095), (193, 54053), (201, 54017), (207, 53987), (218, 53894), (219, 53882), (224, 53858), (226, 53846), (229, 53828), (238, 53765), (243, 53741), (259, 53636), (283, 53447), (284, 53429), (287, 53411), (290, 53381), (292, 53354), (302, 53246), (303, 53240), (305, 53231), (307, 53210), (311, 53147), (314, 53114), (317, 53099), (323, 53039), (326, 53021), (327, 53009), (329, 52988), (331, 52979),

(332, 52976), (351, 52859), (355, 52835), (361, 52796), (363, 52781), (364, 52778), (367, 52754), (369, 52742), (370, 52739), (379, 52691), (381, 52670),

Gene: Adriana_62 Start: 55113, Stop: 53254, Start Num: 105

Candidate Starts for Adriana_62:

(Start: 97 @55137 has 5 MA's), (Start: 105 @55113 has 315 MA's), (Start: 116 @55089 has 6 MA's), (Start: 118 @55083 has 2 MA's), (123, 55041), (125, 55020), (149, 54906), (151, 54900), (155, 54870), (167, 54810), (171, 54789), (180, 54735), (183, 54723), (186, 54705), (188, 54693), (207, 54588), (214, 54531), (218, 54495), (219, 54483), (225, 54456), (226, 54447), (231, 54411), (241, 54354), (242, 54345), (243, 54342), (244, 54339), (289, 53982), (292, 53949), (295, 53928), (303, 53835), (305, 53826), (309, 53763), (313, 53727), (314, 53724), (317, 53709), (326, 53631), (327, 53619), (329, 53598), (337, 53559), (351, 53469), (354, 53451), (355, 53445), (357, 53430), (361, 53406), (363, 53391), (364, 53388), (365, 53376), (369, 53352), (378, 53304), (381, 53280),

Gene: Aelin_60 Start: 54050, Stop: 52191, Start Num: 105

Candidate Starts for Aelin_60:

(Start: 97 @54074 has 5 MA's), (Start: 105 @54050 has 315 MA's), (Start: 116 @54026 has 6 MA's), (Start: 118 @54020 has 2 MA's), (123, 53978), (125, 53957), (149, 53843), (151, 53837), (155, 53807), (167, 53747), (171, 53726), (180, 53672), (183, 53660), (186, 53642), (188, 53630), (207, 53525), (214, 53468), (218, 53432), (219, 53420), (224, 53396), (226, 53384), (229, 53366), (231, 53348), (233, 53330), (241, 53291), (242, 53282), (243, 53279), (244, 53276), (289, 52919), (292, 52886), (295, 52865), (303, 52772), (305, 52763), (309, 52700), (313, 52664), (314, 52661), (317, 52646), (326, 52568), (327, 52556), (329, 52535), (337, 52496), (351, 52406), (354, 52388), (355, 52382), (357, 52367), (361, 52343), (363, 52328), (364, 52325), (365, 52313), (369, 52289), (378, 52241), (381, 52217),

Gene: Ahwei_52 Start: 52985, Stop: 51162, Start Num: 101

Candidate Starts for Ahwei_52:

(Start: 97 @53003 has 5 MA's), (Start: 101 @52985 has 17 MA's), (Start: 118 @52961 has 2 MA's), (120, 52934), (123, 52919), (125, 52898), (146, 52811), (166, 52706), (173, 52664), (186, 52598), (191, 52568), (192, 52559), (193, 52556), (194, 52553), (199, 52526), (214, 52433), (216, 52415), (218, 52397), (219, 52385), (223, 52370), (225, 52358), (242, 52247), (243, 52244), (248, 52214), (252, 52178), (282, 51953), (283, 51950), (287, 51914), (289, 51890), (292, 51857), (302, 51749), (303, 51743), (304, 51737), (305, 51734), (313, 51635), (314, 51632), (317, 51617), (326, 51539), (327, 51527), (329, 51506), (331, 51497), (337, 51467), (341, 51443), (348, 51410), (351, 51377), (354, 51359), (355, 51353), (361, 51314), (364, 51296), (365, 51284), (369, 51260), (376, 51218), (378, 51212), (381, 51188),

Gene: Akoma_58 Start: 53685, Stop: 51868, Start Num: 117

Candidate Starts for Akoma_58:

(75, 53868), (Start: 117 @53685 has 46 MA's), (120, 53655), (159, 53475), (178, 53370), (185, 53322), (187, 53310), (192, 53280), (194, 53274), (207, 53211), (208, 53205), (214, 53154), (218, 53118), (226, 53070), (243, 52965), (257, 52869), (265, 52818), (282, 52674), (287, 52635), (290, 52605), (292, 52578), (294, 52566), (302, 52470), (303, 52464), (305, 52455), (306, 52443), (311, 52371), (313, 52341), (317, 52323), (318, 52314), (326, 52245), (327, 52233), (329, 52212), (342, 52143), (345, 52128), (350, 52104), (351, 52083), (354, 52065), (355, 52059), (360, 52026), (361, 52020), (364, 52002), (365, 51990), (367, 51978), (369, 51966), (376, 51924), (381, 51894),

Gene: AksarBAT_53 Start: 47165, Stop: 45357, Start Num: 115

Candidate Starts for AksarBAT_53:

(Start: 115 @47165 has 14 MA's), (Start: 118 @47156 has 2 MA's), (122, 47117), (123, 47114), (125, 47093), (128, 47084), (139, 47048), (149, 46988), (157, 46946), (165, 46904), (185, 46796), (188, 46781), (191, 46763), (195, 46748), (207, 46685), (214, 46628), (218, 46592), (219, 46580), (238,

46463), (241, 46451), (243, 46439), (246, 46421), (247, 46415), (282, 46148), (283, 46145), (290, 46079), (292, 46052), (297, 45995), (302, 45944), (303, 45938), (305, 45929), (309, 45866), (314, 45827), (317, 45812), (326, 45734), (327, 45722), (329, 45701), (331, 45692), (337, 45662), (348, 45605), (361, 45509), (364, 45491), (369, 45455), (378, 45407), (381, 45383), (383, 45362),

Gene: AlanGrant_57 Start: 55116, Stop: 53290, Start Num: 101

Candidate Starts for AlanGrant_57:

(Start: 101 @55116 has 17 MA's), (Start: 115 @55098 has 14 MA's), (123, 55047), (125, 55026), (155, 54888), (166, 54834), (175, 54780), (186, 54726), (191, 54696), (193, 54684), (194, 54681), (214, 54561), (218, 54525), (219, 54513), (225, 54486), (241, 54384), (243, 54372), (249, 54336), (252, 54306), (258, 54273), (265, 54225), (290, 54012), (292, 53985), (302, 53877), (303, 53871), (305, 53862), (306, 53850), (309, 53799), (312, 53772), (313, 53763), (314, 53760), (315, 53757), (317, 53745), (326, 53667), (327, 53655), (329, 53634), (331, 53625), (333, 53616), (351, 53505), (354, 53487), (355, 53481), (361, 53442), (363, 53427), (365, 53412), (367, 53400), (369, 53388), (378, 53340), (381, 53316),

Gene: Aleia_63 Start: 54377, Stop: 52518, Start Num: 105

Candidate Starts for Aleia_63:

(Start: 97 @54401 has 5 MA's), (Start: 105 @54377 has 315 MA's), (Start: 116 @54353 has 6 MA's), (Start: 118 @54347 has 2 MA's), (123, 54305), (125, 54284), (149, 54170), (151, 54164), (155, 54134), (167, 54074), (171, 54053), (180, 53999), (183, 53987), (186, 53969), (188, 53957), (207, 53852), (214, 53795), (218, 53759), (219, 53747), (224, 53723), (226, 53711), (229, 53693), (231, 53675), (233, 53657), (241, 53618), (242, 53609), (243, 53606), (244, 53603), (289, 53246), (292, 53213), (295, 53192), (303, 53099), (305, 53090), (309, 53027), (313, 52991), (314, 52988), (317, 52973), (326, 52895), (327, 52883), (329, 52862), (337, 52823), (351, 52733), (354, 52715), (355, 52709), (357, 52694), (361, 52670), (363, 52655), (364, 52652), (365, 52640), (369, 52616), (378, 52568), (381, 52544),

Gene: Allegro_57 Start: 52477, Stop: 50648, Start Num: 105

Candidate Starts for Allegro_57:

(Start: 105 @52477 has 315 MA's), (Start: 118 @52450 has 2 MA's), (121, 52420), (123, 52408), (127, 52381), (128, 52378), (132, 52369), (141, 52351), (157, 52255), (167, 52204), (172, 52180), (175, 52156), (199, 52018), (205, 51994), (207, 51982), (214, 51925), (218, 51889), (219, 51877), (224, 51853), (235, 51769), (242, 51739), (243, 51736), (248, 51706), (268, 51562), (274, 51496), (280, 51457), (282, 51445), (284, 51424), (287, 51406), (292, 51349), (301, 51265), (303, 51235), (305, 51226), (309, 51160), (312, 51133), (313, 51124), (317, 51106), (320, 51082), (326, 51028), (327, 51016), (329, 50995), (342, 50926), (351, 50866), (354, 50848), (358, 50815), (361, 50803), (363, 50788), (364, 50785), (365, 50773), (369, 50749), (370, 50746), (378, 50698), (379, 50695), (381, 50674), (383, 50653),

Gene: AltPhacts_60 Start: 53599, Stop: 51740, Start Num: 105

Candidate Starts for AltPhacts_60:

(Start: 97 @53623 has 5 MA's), (Start: 105 @53599 has 315 MA's), (Start: 116 @53575 has 6 MA's), (Start: 118 @53569 has 2 MA's), (120, 53542), (123, 53527), (125, 53506), (149, 53392), (151, 53386), (155, 53356), (167, 53296), (171, 53275), (180, 53221), (183, 53209), (186, 53191), (188, 53179), (207, 53074), (214, 53017), (218, 52981), (219, 52969), (224, 52945), (226, 52933), (231, 52897), (241, 52840), (242, 52831), (243, 52828), (244, 52825), (289, 52468), (292, 52435), (295, 52414), (303, 52321), (305, 52312), (309, 52249), (313, 52213), (314, 52210), (317, 52195), (326, 52117), (327, 52105), (329, 52084), (337, 52045), (351, 51955), (354, 51937), (355, 51931), (357, 51916), (361, 51892), (363, 51877), (364, 51874), (365, 51862), (369, 51838), (378, 51790), (381, 51766),

Gene: Altwerkus_58 Start: 53696, Stop: 51837, Start Num: 105

Candidate Starts for Altwerkus_58:

(Start: 97 @53720 has 5 MA's), (Start: 105 @53696 has 315 MA's), (Start: 116 @53672 has 6 MA's), (Start: 118 @53666 has 2 MA's), (123, 53624), (125, 53603), (149, 53489), (151, 53483), (155, 53453), (167, 53393), (171, 53372), (180, 53318), (183, 53306), (186, 53288), (188, 53276), (207, 53171), (214, 53114), (218, 53078), (219, 53066), (225, 53039), (229, 53012), (231, 52994), (233, 52976), (241, 52937), (242, 52928), (243, 52925), (275, 52667), (289, 52565), (292, 52532), (295, 52511), (303, 52418), (305, 52409), (309, 52346), (313, 52310), (314, 52307), (317, 52292), (326, 52214), (327, 52202), (329, 52181), (337, 52142), (351, 52052), (354, 52034), (355, 52028), (357, 52013), (361, 51989), (363, 51974), (364, 51971), (365, 51959), (369, 51935), (378, 51887), (381, 51863),

Gene: AnClar_50 Start: 47971, Stop: 46157, Start Num: 111

Candidate Starts for AnClar_50:

(86, 48061), (88, 48055), (Start: 111 @47971 has 5 MA's), (Start: 118 @47962 has 2 MA's), (123, 47920), (149, 47794), (157, 47752), (165, 47710), (178, 47641), (185, 47602), (187, 47590), (188, 47587), (204, 47512), (207, 47491), (218, 47398), (237, 47272), (241, 47257), (243, 47245), (256, 47155), (284, 46933), (292, 46858), (303, 46744), (305, 46735), (309, 46672), (314, 46633), (317, 46618), (326, 46540), (327, 46528), (328, 46522), (329, 46507), (331, 46498), (333, 46489), (348, 46411), (351, 46378), (352, 46375), (360, 46321), (361, 46315), (365, 46279), (369, 46255), (381, 46183),

Gene: AnarQue_54 Start: 48016, Stop: 46199, Start Num: 115

Candidate Starts for AnarQue_54:

(Start: 115 @48016 has 14 MA's), (Start: 118 @48007 has 2 MA's), (120, 47980), (122, 47968), (125, 47944), (128, 47935), (157, 47797), (164, 47761), (178, 47686), (191, 47611), (207, 47533), (214, 47476), (218, 47440), (219, 47428), (224, 47404), (238, 47311), (243, 47287), (246, 47269), (282, 46996), (287, 46957), (290, 46927), (292, 46900), (302, 46792), (303, 46786), (305, 46777), (312, 46687), (313, 46678), (314, 46675), (317, 46660), (326, 46582), (327, 46570), (328, 46564), (329, 46549), (339, 46501), (348, 46453), (351, 46420), (355, 46396), (361, 46357), (363, 46342), (369, 46297), (381, 46225),

Gene: Anderson_61 Start: 54268, Stop: 52409, Start Num: 105

Candidate Starts for Anderson_61:

(Start: 97 @54292 has 5 MA's), (Start: 105 @54268 has 315 MA's), (Start: 116 @54244 has 6 MA's), (Start: 118 @54238 has 2 MA's), (123, 54196), (125, 54175), (149, 54061), (151, 54055), (155, 54025), (167, 53965), (171, 53944), (180, 53890), (183, 53878), (186, 53860), (188, 53848), (207, 53743), (214, 53686), (218, 53650), (219, 53638), (224, 53614), (226, 53602), (229, 53584), (231, 53566), (233, 53548), (241, 53509), (242, 53500), (243, 53497), (244, 53494), (275, 53239), (289, 53137), (292, 53104), (295, 53083), (303, 52990), (305, 52981), (309, 52918), (313, 52882), (314, 52879), (317, 52864), (326, 52786), (327, 52774), (329, 52753), (337, 52714), (351, 52624), (354, 52606), (355, 52600), (357, 52585), (361, 52561), (363, 52546), (364, 52543), (365, 52531), (369, 52507), (372, 52486), (378, 52459), (381, 52435),

Gene: Andre_62 Start: 54444, Stop: 52585, Start Num: 105

Candidate Starts for Andre_62:

(Start: 97 @54468 has 5 MA's), (Start: 105 @54444 has 315 MA's), (Start: 116 @54420 has 6 MA's), (Start: 118 @54414 has 2 MA's), (123, 54372), (125, 54351), (149, 54237), (151, 54231), (155, 54201), (167, 54141), (171, 54120), (180, 54066), (183, 54054), (186, 54036), (188, 54024), (207, 53919), (214, 53862), (218, 53826), (219, 53814), (225, 53787), (229, 53760), (231, 53742), (233, 53724), (241, 53685), (242, 53676), (243, 53673), (289, 53313), (292, 53280), (295, 53259), (303, 53166), (305, 53157), (309, 53094), (313, 53058), (314, 53055), (317, 53040), (326, 52962), (327, 52950), (329, 52929), (337, 52890), (351, 52800), (354, 52782), (355, 52776), (357, 52761), (361, 52737), (363, 52722), (364, 52719), (365, 52707), (369, 52683), (378, 52635), (381, 52611),

Gene: AngelCake_61 Start: 54371, Stop: 52512, Start Num: 105

Candidate Starts for AngelCake_61:

(Start: 97 @54395 has 5 MA's), (Start: 105 @54371 has 315 MA's), (Start: 116 @54347 has 6 MA's),
(Start: 118 @54341 has 2 MA's), (123, 54299), (125, 54278), (149, 54164), (151, 54158), (155, 54128),
(167, 54068), (171, 54047), (180, 53993), (183, 53981), (186, 53963), (188, 53951), (207, 53846),
(214, 53789), (218, 53753), (219, 53741), (224, 53717), (226, 53705), (229, 53687), (231, 53669),
(233, 53651), (241, 53612), (242, 53603), (243, 53600), (244, 53597), (289, 53240), (292, 53207),
(295, 53186), (303, 53093), (305, 53084), (309, 53021), (313, 52985), (314, 52982), (317, 52967),
(326, 52889), (327, 52877), (329, 52856), (337, 52817), (351, 52727), (354, 52709), (355, 52703),
(357, 52688), (361, 52664), (363, 52649), (364, 52646), (365, 52634), (369, 52610), (378, 52562),
(381, 52538),

Gene: Antihero_52 Start: 52983, Stop: 51160, Start Num: 101

Candidate Starts for Antihero_52:

(Start: 97 @53001 has 5 MA's), (Start: 101 @52983 has 17 MA's), (Start: 118 @52959 has 2 MA's),
(120, 52932), (123, 52917), (125, 52896), (146, 52809), (166, 52704), (173, 52662), (186, 52596),
(191, 52566), (192, 52557), (193, 52554), (194, 52551), (199, 52524), (214, 52431), (216, 52413),
(218, 52395), (219, 52383), (223, 52368), (225, 52356), (242, 52245), (243, 52242), (248, 52212),
(252, 52176), (282, 51951), (283, 51948), (287, 51912), (289, 51888), (292, 51855), (302, 51747),
(303, 51741), (304, 51735), (305, 51732), (313, 51633), (314, 51630), (317, 51615), (326, 51537),
(327, 51525), (329, 51504), (331, 51495), (337, 51465), (341, 51441), (348, 51408), (351, 51375),
(354, 51357), (355, 51351), (361, 51312), (364, 51294), (365, 51282), (369, 51258), (376, 51216),
(378, 51210), (381, 51186),

Gene: Antonia_60 Start: 54050, Stop: 52191, Start Num: 105

Candidate Starts for Antonia_60:

(Start: 97 @54074 has 5 MA's), (Start: 105 @54050 has 315 MA's), (Start: 116 @54026 has 6 MA's),
(Start: 118 @54020 has 2 MA's), (123, 53978), (125, 53957), (149, 53843), (151, 53837), (155, 53807),
(167, 53747), (171, 53726), (180, 53672), (183, 53660), (186, 53642), (188, 53630), (207, 53525),
(214, 53468), (218, 53432), (219, 53420), (224, 53396), (226, 53384), (229, 53366), (231, 53348),
(233, 53330), (241, 53291), (242, 53282), (243, 53279), (244, 53276), (289, 52919), (292, 52886),
(295, 52865), (303, 52772), (305, 52763), (309, 52700), (313, 52664), (314, 52661), (317, 52646),
(326, 52568), (327, 52556), (329, 52535), (337, 52496), (351, 52406), (354, 52388), (355, 52382),
(357, 52367), (361, 52343), (363, 52328), (364, 52325), (365, 52313), (369, 52289), (378, 52241),
(381, 52217),

Gene: Aonishiki_62 Start: 54311, Stop: 52452, Start Num: 105

Candidate Starts for Aonishiki_62:

(Start: 97 @54335 has 5 MA's), (Start: 105 @54311 has 315 MA's), (Start: 116 @54287 has 6 MA's),
(Start: 118 @54281 has 2 MA's), (123, 54239), (125, 54218), (149, 54104), (151, 54098), (155, 54068),
(167, 54008), (171, 53987), (180, 53933), (183, 53921), (186, 53903), (188, 53891), (207, 53786),
(214, 53729), (218, 53693), (219, 53681), (224, 53657), (226, 53645), (229, 53627), (231, 53609),
(233, 53591), (241, 53552), (242, 53543), (243, 53540), (244, 53537), (289, 53180), (292, 53147),
(295, 53126), (303, 53033), (305, 53024), (309, 52961), (313, 52925), (314, 52922), (317, 52907),
(326, 52829), (327, 52817), (329, 52796), (337, 52757), (351, 52667), (354, 52649), (355, 52643),
(357, 52628), (361, 52604), (363, 52589), (364, 52586), (365, 52574), (369, 52550), (378, 52502),
(381, 52478),

Gene: Apex_54 Start: 54199, Stop: 52376, Start Num: 101

Candidate Starts for Apex_54:

(Start: 97 @54217 has 5 MA's), (Start: 101 @54199 has 17 MA's), (Start: 118 @54175 has 2 MA's),
(120, 54148), (123, 54133), (125, 54112), (146, 54025), (166, 53920), (173, 53878), (186, 53812),
(191, 53782), (192, 53773), (193, 53770), (194, 53767), (199, 53740), (214, 53647), (216, 53629),
(218, 53611), (219, 53599), (223, 53584), (225, 53572), (233, 53509), (241, 53470), (242, 53461),

(243, 53458), (248, 53428), (252, 53392), (282, 53167), (283, 53164), (287, 53128), (289, 53104), (292, 53071), (302, 52963), (303, 52957), (305, 52948), (313, 52849), (314, 52846), (317, 52831), (326, 52753), (327, 52741), (329, 52720), (331, 52711), (337, 52681), (348, 52624), (351, 52591), (355, 52567), (361, 52528), (364, 52510), (365, 52498), (369, 52474), (376, 52432), (378, 52426), (381, 52402),

Gene: Apizium_60 Start: 53711, Stop: 51852, Start Num: 105

Candidate Starts for Apizium_60:

(Start: 97 @53735 has 5 MA's), (Start: 105 @53711 has 315 MA's), (Start: 116 @53687 has 6 MA's), (Start: 118 @53681 has 2 MA's), (123, 53639), (125, 53618), (149, 53504), (151, 53498), (155, 53468), (167, 53408), (171, 53387), (180, 53333), (183, 53321), (186, 53303), (188, 53291), (207, 53186), (214, 53129), (218, 53093), (219, 53081), (225, 53054), (226, 53045), (231, 53009), (241, 52952), (242, 52943), (243, 52940), (244, 52937), (275, 52682), (289, 52580), (292, 52547), (295, 52526), (303, 52433), (305, 52424), (309, 52361), (313, 52325), (314, 52322), (317, 52307), (326, 52229), (327, 52217), (329, 52196), (337, 52157), (351, 52067), (354, 52049), (355, 52043), (357, 52028), (361, 52004), (363, 51989), (364, 51986), (365, 51974), (369, 51950), (372, 51929), (378, 51902), (381, 51878),

Gene: Applejacks_45 Start: 35267, Stop: 32859, Start Num: 12

Candidate Starts for Applejacks_45:

(2, 35468), (5, 35357), (11, 35279), (12, 35267), (14, 35204), (25, 35081), (40, 34997), (56, 34946), (65, 34910), (67, 34898), (83, 34787), (90, 34754), (95, 34745), (141, 34562), (143, 34541), (156, 34472), (165, 34424), (175, 34367), (181, 34334), (185, 34316), (188, 34301), (190, 34289), (195, 34268), (207, 34205), (216, 34133), (218, 34115), (223, 34088), (235, 33995), (236, 33992), (243, 33962), (248, 33932), (265, 33812), (268, 33785), (277, 33695), (286, 33638), (287, 33629), (292, 33572), (301, 33491), (302, 33467), (303, 33461), (310, 33374), (313, 33353), (317, 33335), (326, 33257), (327, 33245), (329, 33224), (340, 33164), (346, 33128), (348, 33110), (351, 33077), (354, 33059), (363, 32999), (364, 32996), (369, 32960), (378, 32909), (381, 32885),

Gene: Arbiter_56 Start: 52589, Stop: 50760, Start Num: 105

Candidate Starts for Arbiter_56:

(Start: 105 @52589 has 315 MA's), (Start: 118 @52562 has 2 MA's), (121, 52532), (123, 52520), (127, 52493), (128, 52490), (132, 52481), (141, 52463), (157, 52367), (167, 52316), (172, 52292), (199, 52130), (205, 52106), (207, 52094), (214, 52037), (218, 52001), (219, 51989), (224, 51965), (235, 51881), (242, 51851), (243, 51848), (248, 51818), (268, 51674), (274, 51608), (282, 51557), (284, 51536), (287, 51518), (292, 51461), (297, 51404), (301, 51377), (303, 51347), (305, 51338), (309, 51272), (312, 51245), (313, 51236), (317, 51218), (320, 51194), (326, 51140), (327, 51128), (329, 51107), (342, 51038), (351, 50978), (354, 50960), (358, 50927), (361, 50915), (363, 50900), (364, 50897), (365, 50885), (369, 50861), (370, 50858), (378, 50810), (379, 50807), (381, 50786), (383, 50765),

Gene: Ares_57 Start: 52561, Stop: 50732, Start Num: 105

Candidate Starts for Ares_57:

(Start: 105 @52561 has 315 MA's), (Start: 118 @52534 has 2 MA's), (121, 52504), (123, 52492), (127, 52465), (128, 52462), (132, 52453), (141, 52435), (157, 52339), (167, 52288), (172, 52264), (175, 52240), (199, 52102), (205, 52078), (207, 52066), (214, 52009), (218, 51973), (219, 51961), (224, 51937), (235, 51853), (242, 51823), (243, 51820), (248, 51790), (268, 51646), (274, 51580), (280, 51541), (282, 51529), (284, 51508), (287, 51490), (292, 51433), (297, 51376), (301, 51349), (303, 51319), (305, 51310), (309, 51244), (312, 51217), (313, 51208), (317, 51190), (320, 51166), (326, 51112), (327, 51100), (329, 51079), (342, 51010), (351, 50950), (354, 50932), (358, 50899), (361, 50887), (363, 50872), (364, 50869), (365, 50857), (369, 50833), (370, 50830), (378, 50782), (379, 50779), (381, 50758), (383, 50737),

Gene: Ashraf_62 Start: 54257, Stop: 52398, Start Num: 105

Candidate Starts for Ashraf_62:

(Start: 97 @54281 has 5 MA's), (Start: 105 @54257 has 315 MA's), (Start: 116 @54233 has 6 MA's), (Start: 118 @54227 has 2 MA's), (123, 54185), (125, 54164), (149, 54050), (151, 54044), (155, 54014), (167, 53954), (171, 53933), (180, 53879), (183, 53867), (186, 53849), (188, 53837), (207, 53732), (214, 53675), (218, 53639), (219, 53627), (224, 53603), (226, 53591), (229, 53573), (231, 53555), (233, 53537), (241, 53498), (242, 53489), (243, 53486), (244, 53483), (275, 53228), (289, 53126), (292, 53093), (295, 53072), (303, 52979), (305, 52970), (309, 52907), (313, 52871), (314, 52868), (317, 52853), (326, 52775), (327, 52763), (329, 52742), (337, 52703), (351, 52613), (354, 52595), (355, 52589), (357, 52574), (361, 52550), (363, 52535), (364, 52532), (365, 52520), (369, 52496), (372, 52475), (378, 52448), (381, 52424),

Gene: Athena_60 Start: 54420, Stop: 52603, Start Num: 117

Candidate Starts for Athena_60:

(75, 54603), (Start: 117 @54420 has 46 MA's), (120, 54390), (159, 54210), (185, 54057), (187, 54045), (192, 54015), (194, 54009), (207, 53946), (208, 53940), (214, 53889), (218, 53853), (226, 53805), (243, 53700), (257, 53604), (265, 53553), (282, 53409), (287, 53370), (290, 53340), (292, 53313), (294, 53301), (302, 53205), (303, 53199), (305, 53190), (306, 53178), (311, 53106), (313, 53076), (317, 53058), (318, 53049), (326, 52980), (327, 52968), (329, 52947), (342, 52878), (345, 52863), (350, 52839), (351, 52818), (355, 52794), (361, 52755), (364, 52737), (365, 52725), (367, 52713), (369, 52701), (376, 52659), (381, 52629),

Gene: Audrey_58 Start: 53676, Stop: 51859, Start Num: 117

Candidate Starts for Audrey_58:

(75, 53859), (Start: 117 @53676 has 46 MA's), (120, 53646), (159, 53466), (185, 53313), (187, 53301), (192, 53271), (194, 53265), (207, 53202), (208, 53196), (214, 53145), (218, 53109), (226, 53061), (243, 52956), (257, 52860), (265, 52809), (282, 52665), (287, 52626), (290, 52596), (292, 52569), (294, 52557), (302, 52461), (303, 52455), (305, 52446), (306, 52434), (311, 52362), (313, 52332), (317, 52314), (318, 52305), (326, 52236), (327, 52224), (329, 52203), (342, 52134), (345, 52119), (350, 52095), (351, 52074), (355, 52050), (361, 52011), (364, 51993), (365, 51981), (367, 51969), (369, 51957), (376, 51915), (381, 51885),

Gene: Austelle_54 Start: 54652, Stop: 52829, Start Num: 101

Candidate Starts for Austelle_54:

(Start: 97 @54670 has 5 MA's), (Start: 101 @54652 has 17 MA's), (Start: 118 @54628 has 2 MA's), (120, 54601), (123, 54586), (125, 54565), (146, 54478), (166, 54373), (173, 54331), (186, 54265), (191, 54235), (192, 54226), (193, 54223), (194, 54220), (199, 54193), (214, 54100), (216, 54082), (218, 54064), (219, 54052), (223, 54037), (225, 54025), (233, 53962), (241, 53923), (242, 53914), (243, 53911), (248, 53881), (252, 53845), (282, 53620), (283, 53617), (287, 53581), (289, 53557), (292, 53524), (302, 53416), (303, 53410), (305, 53401), (313, 53302), (314, 53299), (317, 53284), (326, 53206), (327, 53194), (329, 53173), (331, 53164), (337, 53134), (342, 53104), (348, 53077), (351, 53044), (355, 53020), (361, 52981), (364, 52963), (365, 52951), (369, 52927), (376, 52885), (378, 52879), (381, 52855),

Gene: Axumite_51 Start: 45981, Stop: 44164, Start Num: 115

Candidate Starts for Axumite_51:

(44, 46302), (51, 46278), (Start: 115 @45981 has 14 MA's), (120, 45945), (123, 45930), (128, 45900), (154, 45774), (178, 45651), (180, 45636), (188, 45594), (207, 45498), (218, 45405), (238, 45276), (243, 45252), (284, 44940), (287, 44922), (292, 44865), (303, 44751), (305, 44742), (309, 44679), (314, 44640), (317, 44625), (326, 44547), (327, 44535), (329, 44514), (331, 44505), (348, 44418), (352, 44382), (353, 44370), (359, 44331), (361, 44322), (363, 44307), (369, 44262), (378, 44214), (381, 44190),

Gene: BFK20_ORF44 Start: 37992, Stop: 36088, Start Num: 106

Candidate Starts for BFK20_ORF44:

(Start: 106 @37992 has 3 MA's), (119, 37932), (123, 37905), (125, 37881), (127, 37875), (137, 37833), (143, 37800), (150, 37758), (152, 37743), (156, 37710), (157, 37704), (177, 37599), (180, 37581), (185, 37557), (188, 37542), (190, 37530), (204, 37461), (212, 37392), (215, 37374), (218, 37350), (223, 37323), (243, 37194), (244, 37191), (248, 37164), (261, 37068), (263, 37056), (264, 37050), (286, 36873), (292, 36807), (303, 36690), (315, 36576), (317, 36564), (321, 36522), (322, 36516), (325, 36498), (326, 36486), (327, 36474), (329, 36453), (338, 36411), (340, 36393), (347, 36357), (352, 36306), (361, 36246), (369, 36192), (372, 36171), (381, 36114),

Gene: Badfish_61 Start: 54554, Stop: 52695, Start Num: 105

Candidate Starts for Badfish_61:

(Start: 97 @54578 has 5 MA's), (Start: 105 @54554 has 315 MA's), (Start: 116 @54530 has 6 MA's), (Start: 118 @54524 has 2 MA's), (123, 54482), (125, 54461), (149, 54347), (151, 54341), (155, 54311), (167, 54251), (171, 54230), (180, 54176), (183, 54164), (186, 54146), (188, 54134), (207, 54029), (214, 53972), (218, 53936), (219, 53924), (225, 53897), (229, 53870), (231, 53852), (233, 53834), (241, 53795), (242, 53786), (243, 53783), (275, 53525), (289, 53423), (292, 53390), (295, 53369), (303, 53276), (305, 53267), (309, 53204), (313, 53168), (314, 53165), (317, 53150), (326, 53072), (327, 53060), (329, 53039), (337, 53000), (351, 52910), (354, 52892), (355, 52886), (357, 52871), (361, 52847), (363, 52832), (364, 52829), (365, 52817), (369, 52793), (378, 52745), (381, 52721),

Gene: Baee_59 Start: 55561, Stop: 53708, Start Num: 99

Candidate Starts for Baee_59:

(72, 55720), (82, 55639), (Start: 99 @55561 has 12 MA's), (112, 55516), (120, 55480), (135, 55420), (186, 55159), (193, 55117), (201, 55081), (207, 55051), (218, 54958), (219, 54946), (224, 54922), (226, 54910), (229, 54892), (238, 54829), (243, 54805), (259, 54700), (283, 54511), (284, 54493), (290, 54445), (292, 54418), (295, 54397), (302, 54310), (303, 54304), (305, 54295), (307, 54274), (311, 54211), (314, 54178), (317, 54163), (323, 54103), (326, 54085), (327, 54073), (329, 54052), (331, 54043), (332, 54040), (351, 53923), (355, 53899), (361, 53860), (363, 53845), (364, 53842), (369, 53806), (370, 53803), (381, 53734),

Gene: Baloo_58 Start: 53679, Stop: 51862, Start Num: 117

Candidate Starts for Baloo_58:

(34, 54063), (75, 53862), (Start: 117 @53679 has 46 MA's), (120, 53649), (159, 53469), (185, 53316), (187, 53304), (192, 53274), (194, 53268), (207, 53205), (208, 53199), (214, 53148), (218, 53112), (226, 53064), (243, 52959), (257, 52863), (265, 52812), (282, 52668), (287, 52629), (290, 52599), (292, 52572), (294, 52560), (302, 52464), (303, 52458), (305, 52449), (306, 52437), (311, 52365), (313, 52335), (317, 52317), (318, 52308), (326, 52239), (327, 52227), (329, 52206), (342, 52137), (345, 52122), (350, 52098), (351, 52077), (355, 52053), (361, 52014), (364, 51996), (365, 51984), (367, 51972), (369, 51960), (376, 51918), (381, 51888),

Gene: Bananafish_57 Start: 52489, Stop: 50660, Start Num: 105

Candidate Starts for Bananafish_57:

(Start: 105 @52489 has 315 MA's), (Start: 118 @52462 has 2 MA's), (121, 52432), (123, 52420), (127, 52393), (128, 52390), (132, 52381), (141, 52363), (157, 52267), (167, 52216), (172, 52192), (199, 52030), (205, 52006), (207, 51994), (214, 51937), (218, 51901), (219, 51889), (224, 51865), (235, 51781), (242, 51751), (243, 51748), (248, 51718), (268, 51574), (274, 51508), (280, 51469), (282, 51457), (284, 51436), (287, 51418), (292, 51361), (301, 51277), (303, 51247), (305, 51238), (309, 51172), (312, 51145), (313, 51136), (317, 51118), (320, 51094), (326, 51040), (327, 51028), (329, 51007), (342, 50938), (351, 50878), (354, 50860), (358, 50827), (361, 50815), (363, 50800), (364, 50797), (365, 50785), (369, 50761), (370, 50758), (378, 50710), (379, 50707), (381, 50686), (383, 50665),

Gene: Banjo_59 Start: 54043, Stop: 52184, Start Num: 105

Candidate Starts for Banjo_59:

(Start: 97 @54067 has 5 MA's), (Start: 105 @54043 has 315 MA's), (Start: 116 @54019 has 6 MA's),
(Start: 118 @54013 has 2 MA's), (123, 53971), (125, 53950), (149, 53836), (151, 53830), (155, 53800),
(167, 53740), (171, 53719), (180, 53665), (183, 53653), (186, 53635), (188, 53623), (207, 53518),
(214, 53461), (218, 53425), (219, 53413), (225, 53386), (229, 53359), (231, 53341), (233, 53323),
(241, 53284), (242, 53275), (243, 53272), (244, 53269), (289, 52912), (292, 52879), (295, 52858),
(303, 52765), (305, 52756), (309, 52693), (313, 52657), (314, 52654), (317, 52639), (326, 52561),
(327, 52549), (329, 52528), (337, 52489), (351, 52399), (354, 52381), (355, 52375), (357, 52360),
(361, 52336), (363, 52321), (364, 52318), (365, 52306), (369, 52282), (378, 52234), (381, 52210),

Gene: Basato_61 Start: 54317, Stop: 52458, Start Num: 105

Candidate Starts for Basato_61:

(Start: 97 @54341 has 5 MA's), (Start: 105 @54317 has 315 MA's), (Start: 116 @54293 has 6 MA's),
(Start: 118 @54287 has 2 MA's), (123, 54245), (125, 54224), (149, 54110), (151, 54104), (155, 54074),
(167, 54014), (171, 53993), (180, 53939), (183, 53927), (186, 53909), (188, 53897), (207, 53792),
(214, 53735), (218, 53699), (219, 53687), (225, 53660), (226, 53651), (231, 53615), (241, 53558),
(242, 53549), (243, 53546), (244, 53543), (289, 53186), (292, 53153), (295, 53132), (303, 53039),
(305, 53030), (309, 52967), (313, 52931), (314, 52928), (317, 52913), (326, 52835), (327, 52823),
(329, 52802), (337, 52763), (351, 52673), (354, 52655), (355, 52649), (357, 52634), (361, 52610),
(363, 52595), (364, 52592), (365, 52580), (369, 52556), (378, 52508), (381, 52484),

Gene: BatteryCK_61 Start: 54193, Stop: 52334, Start Num: 105

Candidate Starts for BatteryCK_61:

(Start: 97 @54217 has 5 MA's), (Start: 105 @54193 has 315 MA's), (Start: 116 @54169 has 6 MA's),
(Start: 118 @54163 has 2 MA's), (123, 54121), (125, 54100), (149, 53986), (151, 53980), (155, 53950),
(167, 53890), (171, 53869), (180, 53815), (183, 53803), (186, 53785), (188, 53773), (207, 53668),
(214, 53611), (218, 53575), (219, 53563), (224, 53539), (226, 53527), (229, 53509), (231, 53491),
(233, 53473), (241, 53434), (242, 53425), (243, 53422), (244, 53419), (289, 53062), (292, 53029),
(295, 53008), (303, 52915), (305, 52906), (309, 52843), (313, 52807), (314, 52804), (317, 52789),
(326, 52711), (327, 52699), (329, 52678), (337, 52639), (351, 52549), (354, 52531), (355, 52525),
(357, 52510), (361, 52486), (363, 52471), (364, 52468), (365, 52456), (369, 52432), (378, 52384),
(381, 52360),

Gene: Beaglebox_60 Start: 54107, Stop: 52248, Start Num: 105

Candidate Starts for Beaglebox_60:

(Start: 97 @54131 has 5 MA's), (Start: 105 @54107 has 315 MA's), (Start: 116 @54083 has 6 MA's),
(Start: 118 @54077 has 2 MA's), (123, 54035), (125, 54014), (149, 53900), (151, 53894), (155, 53864),
(167, 53804), (171, 53783), (180, 53729), (183, 53717), (186, 53699), (188, 53687), (207, 53582),
(214, 53525), (218, 53489), (219, 53477), (224, 53453), (226, 53441), (229, 53423), (231, 53405),
(233, 53387), (241, 53348), (242, 53339), (243, 53336), (275, 53078), (289, 52976), (292, 52943),
(295, 52922), (303, 52829), (305, 52820), (309, 52757), (313, 52721), (314, 52718), (317, 52703),
(326, 52625), (327, 52613), (329, 52592), (337, 52553), (351, 52463), (354, 52445), (355, 52439),
(357, 52424), (361, 52400), (363, 52385), (364, 52382), (365, 52370), (369, 52346), (378, 52298),
(381, 52274),

Gene: Ben11_58 Start: 53891, Stop: 52074, Start Num: 117

Candidate Starts for Ben11_58:

(75, 54074), (Start: 117 @53891 has 46 MA's), (120, 53861), (159, 53681), (185, 53528), (187, 53516),
(192, 53486), (194, 53480), (207, 53417), (208, 53411), (214, 53360), (217, 53333), (218, 53324),
(226, 53276), (243, 53171), (257, 53075), (265, 53024), (282, 52880), (287, 52841), (290, 52811),
(292, 52784), (294, 52772), (302, 52676), (303, 52670), (305, 52661), (306, 52649), (311, 52577),
(313, 52547), (317, 52529), (318, 52520), (326, 52451), (327, 52439), (329, 52418), (342, 52349),

(345, 52334), (350, 52310), (351, 52289), (354, 52271), (355, 52265), (360, 52232), (361, 52226), (364, 52208), (365, 52196), (367, 52184), (369, 52172), (376, 52130), (381, 52100),

Gene: Bernardo_59 Start: 54028, Stop: 52211, Start Num: 117

Candidate Starts for Bernardo_59:

(75, 54211), (Start: 117 @54028 has 46 MA's), (120, 53998), (159, 53818), (185, 53665), (187, 53653), (192, 53623), (194, 53617), (207, 53554), (208, 53548), (214, 53497), (218, 53461), (226, 53413), (243, 53308), (257, 53212), (265, 53161), (282, 53017), (287, 52978), (290, 52948), (292, 52921), (294, 52909), (302, 52813), (303, 52807), (305, 52798), (306, 52786), (311, 52714), (313, 52684), (317, 52666), (318, 52657), (326, 52588), (327, 52576), (329, 52555), (342, 52486), (345, 52471), (350, 52447), (351, 52426), (355, 52402), (361, 52363), (364, 52345), (365, 52333), (367, 52321), (369, 52309), (376, 52267), (381, 52237),

Gene: BiggityBass_49 Start: 47333, Stop: 45519, Start Num: 111

Candidate Starts for BiggityBass_49:

(86, 47423), (Start: 111 @47333 has 5 MA's), (Start: 118 @47324 has 2 MA's), (123, 47282), (157, 47114), (165, 47072), (178, 47003), (185, 46964), (188, 46949), (204, 46874), (207, 46853), (218, 46760), (237, 46634), (238, 46631), (242, 46610), (243, 46607), (256, 46517), (271, 46379), (284, 46295), (287, 46277), (292, 46220), (302, 46112), (303, 46106), (305, 46097), (309, 46034), (314, 45995), (317, 45980), (326, 45902), (327, 45890), (328, 45884), (329, 45869), (331, 45860), (348, 45773), (351, 45740), (352, 45737), (359, 45686), (361, 45677), (369, 45617), (381, 45545),

Gene: BirdsNest_61 Start: 54182, Stop: 52338, Start Num: 110

Candidate Starts for BirdsNest_61:

(Start: 110 @54182 has 3 MA's), (123, 54125), (127, 54098), (151, 53996), (167, 53909), (176, 53855), (180, 53834), (185, 53810), (188, 53795), (207, 53690), (218, 53597), (219, 53585), (226, 53549), (243, 53444), (265, 53297), (272, 53213), (273, 53207), (282, 53147), (283, 53144), (287, 53108), (292, 53051), (302, 52943), (303, 52937), (305, 52928), (313, 52814), (317, 52796), (326, 52718), (327, 52706), (329, 52685), (342, 52616), (345, 52601), (351, 52556), (355, 52532), (361, 52493), (363, 52478), (365, 52463), (369, 52439), (376, 52394), (378, 52388), (381, 52364),

Gene: Bishoperium_60 Start: 54582, Stop: 52723, Start Num: 105

Candidate Starts for Bishoperium_60:

(Start: 97 @54606 has 5 MA's), (Start: 105 @54582 has 315 MA's), (Start: 116 @54558 has 6 MA's), (Start: 118 @54552 has 2 MA's), (123, 54510), (125, 54489), (149, 54375), (151, 54369), (155, 54339), (167, 54279), (171, 54258), (180, 54204), (183, 54192), (186, 54174), (188, 54162), (207, 54057), (214, 54000), (218, 53964), (219, 53952), (225, 53925), (229, 53898), (231, 53880), (233, 53862), (241, 53823), (242, 53814), (243, 53811), (244, 53808), (289, 53451), (292, 53418), (295, 53397), (303, 53304), (305, 53295), (309, 53232), (313, 53196), (314, 53193), (317, 53178), (326, 53100), (327, 53088), (329, 53067), (337, 53028), (351, 52938), (354, 52920), (355, 52914), (357, 52899), (361, 52875), (363, 52860), (364, 52857), (365, 52845), (369, 52821), (378, 52773), (381, 52749),

Gene: BlackStallion_62 Start: 54311, Stop: 52452, Start Num: 105

Candidate Starts for BlackStallion_62:

(Start: 97 @54335 has 5 MA's), (Start: 105 @54311 has 315 MA's), (Start: 116 @54287 has 6 MA's), (Start: 118 @54281 has 2 MA's), (123, 54239), (125, 54218), (149, 54104), (151, 54098), (155, 54068), (167, 54008), (171, 53987), (180, 53933), (183, 53921), (186, 53903), (188, 53891), (207, 53786), (214, 53729), (218, 53693), (219, 53681), (224, 53657), (226, 53645), (229, 53627), (231, 53609), (233, 53591), (241, 53552), (242, 53543), (243, 53540), (244, 53537), (289, 53180), (292, 53147), (295, 53126), (303, 53033), (305, 53024), (309, 52961), (313, 52925), (314, 52922), (317, 52907), (326, 52829), (327, 52817), (329, 52796), (337, 52757), (351, 52667), (354, 52649), (355, 52643), (357, 52628), (361, 52604), (363, 52589), (364, 52586), (365, 52574), (369, 52550), (378, 52502), (381, 52478),

Gene: Blackpen_53 Start: 47085, Stop: 45268, Start Num: 115

Candidate Starts for Blackpen_53:

(Start: 115 @47085 has 14 MA's), (Start: 118 @47076 has 2 MA's), (120, 47049), (122, 47037), (125, 47013), (128, 47004), (149, 46908), (157, 46866), (164, 46830), (178, 46755), (191, 46680), (207, 46602), (214, 46545), (218, 46509), (219, 46497), (224, 46473), (238, 46380), (243, 46356), (246, 46338), (282, 46065), (287, 46026), (290, 45996), (292, 45969), (302, 45861), (303, 45855), (305, 45846), (312, 45756), (313, 45747), (314, 45744), (317, 45729), (326, 45651), (327, 45639), (328, 45633), (329, 45618), (339, 45570), (348, 45522), (351, 45489), (355, 45465), (361, 45426), (363, 45411), (369, 45366), (381, 45294),

Gene: BlacksBerry_61 Start: 53942, Stop: 52083, Start Num: 105

Candidate Starts for BlacksBerry_61:

(Start: 97 @53966 has 5 MA's), (Start: 105 @53942 has 315 MA's), (Start: 116 @53918 has 6 MA's), (Start: 118 @53912 has 2 MA's), (123, 53870), (125, 53849), (149, 53735), (151, 53729), (155, 53699), (167, 53639), (171, 53618), (180, 53564), (183, 53552), (186, 53534), (188, 53522), (207, 53417), (214, 53360), (218, 53324), (219, 53312), (224, 53288), (226, 53276), (229, 53258), (231, 53240), (233, 53222), (241, 53183), (242, 53174), (243, 53171), (244, 53168), (289, 52811), (292, 52778), (295, 52757), (303, 52664), (305, 52655), (309, 52592), (313, 52556), (314, 52553), (317, 52538), (326, 52460), (327, 52448), (329, 52427), (337, 52388), (351, 52298), (354, 52280), (355, 52274), (357, 52259), (361, 52235), (363, 52220), (364, 52217), (365, 52205), (369, 52181), (378, 52133), (381, 52109),

Gene: Blocker23_57 Start: 52599, Stop: 50770, Start Num: 105

Candidate Starts for Blocker23_57:

(Start: 105 @52599 has 315 MA's), (Start: 118 @52572 has 2 MA's), (121, 52542), (123, 52530), (127, 52503), (128, 52500), (132, 52491), (141, 52473), (157, 52377), (167, 52326), (172, 52302), (175, 52278), (199, 52140), (205, 52116), (207, 52104), (214, 52047), (218, 52011), (219, 51999), (224, 51975), (235, 51891), (242, 51861), (243, 51858), (248, 51828), (268, 51684), (274, 51618), (280, 51579), (282, 51567), (284, 51546), (287, 51528), (292, 51471), (301, 51387), (303, 51357), (305, 51348), (309, 51282), (312, 51255), (313, 51246), (317, 51228), (320, 51204), (326, 51150), (327, 51138), (329, 51117), (342, 51048), (351, 50988), (354, 50970), (358, 50937), (361, 50925), (363, 50910), (364, 50907), (365, 50895), (369, 50871), (370, 50868), (378, 50820), (379, 50817), (381, 50796), (383, 50775),

Gene: BlueHusk_62 Start: 54066, Stop: 52207, Start Num: 105

Candidate Starts for BlueHusk_62:

(Start: 97 @54090 has 5 MA's), (Start: 105 @54066 has 315 MA's), (Start: 116 @54042 has 6 MA's), (Start: 118 @54036 has 2 MA's), (120, 54009), (123, 53994), (125, 53973), (149, 53859), (151, 53853), (155, 53823), (167, 53763), (171, 53742), (180, 53688), (183, 53676), (186, 53658), (188, 53646), (207, 53541), (214, 53484), (218, 53448), (219, 53436), (225, 53409), (226, 53400), (231, 53364), (241, 53307), (242, 53298), (243, 53295), (244, 53292), (289, 52935), (292, 52902), (295, 52881), (303, 52788), (305, 52779), (309, 52716), (313, 52680), (314, 52677), (317, 52662), (326, 52584), (327, 52572), (329, 52551), (337, 52512), (351, 52422), (354, 52404), (355, 52398), (357, 52383), (361, 52359), (363, 52344), (364, 52341), (365, 52329), (369, 52305), (378, 52257), (381, 52233),

Gene: Bluephacebaby_60 Start: 54585, Stop: 52726, Start Num: 105

Candidate Starts for Bluephacebaby_60:

(Start: 97 @54609 has 5 MA's), (Start: 105 @54585 has 315 MA's), (Start: 116 @54561 has 6 MA's), (Start: 118 @54555 has 2 MA's), (123, 54513), (125, 54492), (149, 54378), (151, 54372), (155, 54342), (167, 54282), (171, 54261), (180, 54207), (183, 54195), (186, 54177), (188, 54165), (207, 54060), (214, 54003), (218, 53967), (219, 53955), (225, 53928), (231, 53883), (241, 53826), (242, 53817), (243, 53814), (289, 53454), (292, 53421), (295, 53400), (303, 53307), (305, 53298), (309, 53235),

(313, 53199), (314, 53196), (317, 53181), (326, 53103), (327, 53091), (329, 53070), (337, 53031), (351, 52941), (354, 52923), (355, 52917), (357, 52902), (361, 52878), (363, 52863), (364, 52860), (365, 52848), (369, 52824), (378, 52776), (381, 52752),

Gene: BobRoss2024_51 Start: 46234, Stop: 44420, Start Num: 115

Candidate Starts for BobRoss2024_51:

(Start: 115 @46234 has 14 MA's), (120, 46198), (128, 46153), (149, 46057), (155, 46024), (156, 46021), (157, 46015), (165, 45973), (187, 45853), (207, 45754), (214, 45697), (238, 45532), (243, 45508), (282, 45217), (287, 45178), (290, 45148), (292, 45121), (303, 45007), (305, 44998), (313, 44899), (314, 44896), (317, 44881), (326, 44803), (327, 44791), (329, 44770), (348, 44674), (352, 44638), (355, 44617), (361, 44578), (363, 44563), (365, 44542), (369, 44518), (378, 44470), (381, 44446), (383, 44425),

Gene: BobbyK_54 Start: 53968, Stop: 52145, Start Num: 101

Candidate Starts for BobbyK_54:

(Start: 97 @53986 has 5 MA's), (Start: 101 @53968 has 17 MA's), (Start: 118 @53944 has 2 MA's), (120, 53917), (123, 53902), (125, 53881), (146, 53794), (166, 53689), (173, 53647), (186, 53581), (191, 53551), (192, 53542), (193, 53539), (194, 53536), (199, 53509), (214, 53416), (216, 53398), (218, 53380), (219, 53368), (225, 53341), (233, 53278), (241, 53239), (242, 53230), (243, 53227), (248, 53197), (252, 53161), (282, 52936), (283, 52933), (287, 52897), (289, 52873), (292, 52840), (302, 52732), (303, 52726), (305, 52717), (313, 52618), (314, 52615), (317, 52600), (326, 52522), (327, 52510), (329, 52489), (331, 52480), (337, 52450), (342, 52420), (348, 52393), (351, 52360), (355, 52336), (361, 52297), (364, 52279), (365, 52267), (369, 52243), (376, 52201), (378, 52195), (381, 52171),

Gene: Boehler_60 Start: 54229, Stop: 52370, Start Num: 105

Candidate Starts for Boehler_60:

(Start: 97 @54253 has 5 MA's), (Start: 105 @54229 has 315 MA's), (Start: 116 @54205 has 6 MA's), (Start: 118 @54199 has 2 MA's), (123, 54157), (125, 54136), (149, 54022), (151, 54016), (155, 53986), (167, 53926), (171, 53905), (180, 53851), (183, 53839), (186, 53821), (188, 53809), (207, 53704), (214, 53647), (218, 53611), (219, 53599), (224, 53575), (226, 53563), (229, 53545), (231, 53527), (233, 53509), (241, 53470), (242, 53461), (243, 53458), (244, 53455), (289, 53098), (292, 53065), (295, 53044), (303, 52951), (305, 52942), (309, 52879), (313, 52843), (314, 52840), (317, 52825), (326, 52747), (327, 52735), (329, 52714), (337, 52675), (351, 52585), (354, 52567), (355, 52561), (357, 52546), (361, 52522), (363, 52507), (364, 52504), (365, 52492), (369, 52468), (378, 52420), (381, 52396),

Gene: BoogieWoogie_61 Start: 54018, Stop: 52159, Start Num: 105

Candidate Starts for BoogieWoogie_61:

(Start: 97 @54042 has 5 MA's), (Start: 105 @54018 has 315 MA's), (Start: 116 @53994 has 6 MA's), (Start: 118 @53988 has 2 MA's), (123, 53946), (125, 53925), (149, 53811), (151, 53805), (155, 53775), (167, 53715), (171, 53694), (180, 53640), (183, 53628), (186, 53610), (188, 53598), (207, 53493), (214, 53436), (218, 53400), (219, 53388), (225, 53361), (229, 53334), (231, 53316), (233, 53298), (241, 53259), (242, 53250), (243, 53247), (275, 52989), (289, 52887), (292, 52854), (295, 52833), (303, 52740), (305, 52731), (309, 52668), (313, 52632), (314, 52629), (317, 52614), (326, 52536), (327, 52524), (329, 52503), (337, 52464), (351, 52374), (354, 52356), (355, 52350), (357, 52335), (361, 52311), (363, 52296), (364, 52293), (365, 52281), (369, 52257), (378, 52209), (381, 52185),

Gene: Boyle_57 Start: 52628, Stop: 50799, Start Num: 105

Candidate Starts for Boyle_57:

(Start: 105 @52628 has 315 MA's), (Start: 118 @52601 has 2 MA's), (121, 52571), (123, 52559), (127, 52532), (128, 52529), (132, 52520), (141, 52502), (157, 52406), (167, 52355), (172, 52331), (175, 52307), (199, 52169), (205, 52145), (207, 52133), (214, 52076), (218, 52040), (219, 52028), (224,

52004), (235, 51920), (242, 51890), (243, 51887), (248, 51857), (268, 51713), (274, 51647), (280, 51608), (282, 51596), (284, 51575), (287, 51557), (292, 51500), (301, 51416), (303, 51386), (305, 51377), (309, 51311), (312, 51284), (313, 51275), (317, 51257), (320, 51233), (326, 51179), (327, 51167), (329, 51146), (342, 51077), (351, 51017), (354, 50999), (358, 50966), (361, 50954), (363, 50939), (364, 50936), (365, 50924), (369, 50900), (370, 50897), (378, 50849), (379, 50846), (381, 50825), (383, 50804),

Gene: Briakila_57 Start: 53649, Stop: 51832, Start Num: 117

Candidate Starts for Briakila_57:

(75, 53832), (Start: 117 @53649 has 46 MA's), (120, 53619), (159, 53439), (185, 53286), (187, 53274), (192, 53244), (194, 53238), (207, 53175), (208, 53169), (214, 53118), (217, 53091), (218, 53082), (226, 53034), (243, 52929), (257, 52833), (265, 52782), (282, 52638), (287, 52599), (290, 52569), (292, 52542), (294, 52530), (302, 52434), (303, 52428), (305, 52419), (306, 52407), (311, 52335), (313, 52305), (317, 52287), (318, 52278), (326, 52209), (327, 52197), (329, 52176), (342, 52107), (345, 52092), (350, 52068), (351, 52047), (354, 52029), (355, 52023), (360, 51990), (361, 51984), (364, 51966), (365, 51954), (367, 51942), (369, 51930), (376, 51888), (381, 51858),

Gene: Brilliant_63 Start: 54544, Stop: 52685, Start Num: 105

Candidate Starts for Brilliant_63:

(Start: 97 @54568 has 5 MA's), (Start: 105 @54544 has 315 MA's), (Start: 116 @54520 has 6 MA's), (Start: 118 @54514 has 2 MA's), (123, 54472), (125, 54451), (149, 54337), (151, 54331), (155, 54301), (167, 54241), (171, 54220), (180, 54166), (183, 54154), (186, 54136), (188, 54124), (207, 54019), (214, 53962), (218, 53926), (219, 53914), (224, 53890), (226, 53878), (229, 53860), (231, 53842), (233, 53824), (241, 53785), (242, 53776), (243, 53773), (244, 53770), (289, 53413), (292, 53380), (295, 53359), (303, 53266), (305, 53257), (309, 53194), (313, 53158), (314, 53155), (317, 53140), (326, 53062), (327, 53050), (329, 53029), (337, 52990), (351, 52900), (354, 52882), (355, 52876), (357, 52861), (361, 52837), (363, 52822), (364, 52819), (365, 52807), (369, 52783), (378, 52735), (381, 52711),

Gene: BrownCNA_55 Start: 54328, Stop: 52487, Start Num: 97

Candidate Starts for BrownCNA_55:

(Start: 97 @54328 has 5 MA's), (Start: 101 @54310 has 17 MA's), (Start: 118 @54286 has 2 MA's), (120, 54259), (123, 54244), (125, 54223), (146, 54136), (166, 54031), (171, 54004), (173, 53989), (186, 53923), (191, 53893), (192, 53884), (193, 53881), (194, 53878), (199, 53851), (214, 53758), (216, 53740), (218, 53722), (219, 53710), (225, 53683), (233, 53620), (241, 53581), (242, 53572), (243, 53569), (248, 53539), (252, 53503), (282, 53278), (283, 53275), (287, 53239), (289, 53215), (292, 53182), (302, 53074), (303, 53068), (305, 53059), (313, 52960), (314, 52957), (317, 52942), (326, 52864), (327, 52852), (329, 52831), (331, 52822), (337, 52792), (348, 52735), (351, 52702), (355, 52678), (361, 52639), (364, 52621), (365, 52609), (369, 52585), (376, 52543), (378, 52537), (381, 52513),

Gene: Brownie5_57 Start: 52641, Stop: 50812, Start Num: 105

Candidate Starts for Brownie5_57:

(Start: 105 @52641 has 315 MA's), (Start: 118 @52614 has 2 MA's), (121, 52584), (123, 52572), (127, 52545), (128, 52542), (132, 52533), (141, 52515), (157, 52419), (167, 52368), (172, 52344), (199, 52182), (204, 52167), (205, 52158), (207, 52146), (214, 52089), (218, 52053), (219, 52041), (224, 52017), (235, 51933), (242, 51903), (243, 51900), (248, 51870), (268, 51726), (274, 51660), (280, 51621), (282, 51609), (284, 51588), (287, 51570), (292, 51513), (297, 51456), (301, 51429), (303, 51399), (305, 51390), (309, 51324), (312, 51297), (313, 51288), (317, 51270), (320, 51246), (326, 51192), (327, 51180), (329, 51159), (342, 51090), (351, 51030), (354, 51012), (358, 50979), (361, 50967), (363, 50952), (364, 50949), (365, 50937), (369, 50913), (370, 50910), (378, 50862), (379, 50859), (381, 50838), (383, 50817),

Gene: Buckeye_61 Start: 54843, Stop: 52984, Start Num: 105

Candidate Starts for Buckeye_61:

(Start: 97 @54867 has 5 MA's), (Start: 105 @54843 has 315 MA's), (Start: 116 @54819 has 6 MA's), (Start: 118 @54813 has 2 MA's), (123, 54771), (125, 54750), (149, 54636), (151, 54630), (155, 54600), (167, 54540), (171, 54519), (180, 54465), (183, 54453), (186, 54435), (188, 54423), (207, 54318), (214, 54261), (218, 54225), (219, 54213), (225, 54186), (229, 54159), (231, 54141), (233, 54123), (241, 54084), (242, 54075), (243, 54072), (275, 53814), (289, 53712), (292, 53679), (295, 53658), (303, 53565), (305, 53556), (309, 53493), (313, 53457), (314, 53454), (317, 53439), (326, 53361), (327, 53349), (329, 53328), (337, 53289), (351, 53199), (354, 53181), (355, 53175), (357, 53160), (361, 53136), (363, 53121), (364, 53118), (365, 53106), (369, 53082), (378, 53034), (381, 53010),

Gene: Burr_60 Start: 54018, Stop: 52159, Start Num: 105

Candidate Starts for Burr_60:

(Start: 97 @54042 has 5 MA's), (Start: 105 @54018 has 315 MA's), (Start: 116 @53994 has 6 MA's), (Start: 118 @53988 has 2 MA's), (123, 53946), (125, 53925), (149, 53811), (151, 53805), (155, 53775), (167, 53715), (171, 53694), (180, 53640), (183, 53628), (186, 53610), (188, 53598), (207, 53493), (214, 53436), (218, 53400), (219, 53388), (225, 53361), (231, 53316), (233, 53298), (241, 53259), (242, 53250), (243, 53247), (289, 52887), (292, 52854), (295, 52833), (303, 52740), (305, 52731), (309, 52668), (313, 52632), (314, 52629), (317, 52614), (326, 52536), (327, 52524), (329, 52503), (337, 52464), (351, 52374), (354, 52356), (355, 52350), (357, 52335), (361, 52311), (363, 52296), (364, 52293), (365, 52281), (369, 52257), (378, 52209), (381, 52185),

Gene: CRB2_57 Start: 55662, Stop: 53833, Start Num: 106

Candidate Starts for CRB2_57:

(Start: 106 @55662 has 3 MA's), (Start: 118 @55635 has 2 MA's), (120, 55608), (128, 55563), (136, 55554), (141, 55536), (155, 55452), (157, 55443), (175, 55344), (183, 55305), (187, 55281), (207, 55173), (214, 55116), (218, 55080), (219, 55068), (224, 55044), (225, 55041), (226, 55032), (242, 54924), (243, 54921), (244, 54918), (246, 54903), (248, 54891), (252, 54855), (272, 54690), (282, 54624), (283, 54621), (284, 54603), (287, 54585), (289, 54561), (290, 54555), (292, 54528), (302, 54420), (303, 54414), (305, 54405), (313, 54306), (314, 54303), (317, 54288), (326, 54210), (327, 54198), (329, 54177), (333, 54159), (339, 54129), (345, 54093), (351, 54048), (354, 54030), (355, 54024), (361, 53985), (362, 53973), (363, 53970), (369, 53931), (373, 53907), (378, 53883), (381, 53859),

Gene: CaiB_54 Start: 48539, Stop: 46722, Start Num: 115

Candidate Starts for CaiB_54:

(86, 48632), (93, 48611), (Start: 115 @48539 has 14 MA's), (Start: 118 @48530 has 2 MA's), (120, 48503), (123, 48488), (125, 48467), (128, 48458), (157, 48320), (164, 48284), (207, 48056), (214, 47999), (218, 47963), (219, 47951), (222, 47939), (224, 47927), (238, 47834), (241, 47822), (243, 47810), (246, 47792), (268, 47636), (282, 47519), (290, 47450), (292, 47423), (302, 47315), (303, 47309), (305, 47300), (312, 47210), (313, 47201), (314, 47198), (317, 47183), (326, 47105), (327, 47093), (328, 47087), (329, 47072), (339, 47024), (351, 46943), (355, 46919), (361, 46880), (363, 46865), (369, 46820), (381, 46748),

Gene: Calamitous_57 Start: 52488, Stop: 50659, Start Num: 105

Candidate Starts for Calamitous_57:

(Start: 105 @52488 has 315 MA's), (Start: 118 @52461 has 2 MA's), (121, 52431), (123, 52419), (127, 52392), (128, 52389), (132, 52380), (141, 52362), (157, 52266), (167, 52215), (172, 52191), (199, 52029), (204, 52014), (205, 52005), (207, 51993), (214, 51936), (218, 51900), (219, 51888), (224, 51864), (235, 51780), (242, 51750), (243, 51747), (248, 51717), (268, 51573), (274, 51507), (282, 51456), (284, 51435), (287, 51417), (292, 51360), (297, 51303), (301, 51276), (303, 51246), (305, 51237), (309, 51171), (312, 51144), (313, 51135), (317, 51117), (320, 51093), (326, 51039), (327, 51027), (329, 51006), (342, 50937), (351, 50877), (354, 50859), (358, 50826), (361, 50814), (363,

50799), (364, 50796), (365, 50784), (369, 50760), (370, 50757), (378, 50709), (379, 50706), (381, 50685), (383, 50664),

Gene: CamL_60 Start: 54350, Stop: 52491, Start Num: 105

Candidate Starts for CamL_60:

(Start: 97 @54374 has 5 MA's), (Start: 105 @54350 has 315 MA's), (Start: 116 @54326 has 6 MA's), (Start: 118 @54320 has 2 MA's), (123, 54278), (125, 54257), (149, 54143), (151, 54137), (155, 54107), (167, 54047), (171, 54026), (180, 53972), (183, 53960), (186, 53942), (188, 53930), (207, 53825), (214, 53768), (218, 53732), (219, 53720), (225, 53693), (231, 53648), (241, 53591), (242, 53582), (243, 53579), (289, 53219), (292, 53186), (295, 53165), (303, 53072), (305, 53063), (309, 53000), (313, 52964), (314, 52961), (317, 52946), (326, 52868), (327, 52856), (329, 52835), (337, 52796), (351, 52706), (354, 52688), (355, 52682), (357, 52667), (361, 52643), (363, 52628), (364, 52625), (365, 52613), (369, 52589), (378, 52541), (381, 52517),

Gene: CampRoach_62 Start: 54448, Stop: 52589, Start Num: 105

Candidate Starts for CampRoach_62:

(Start: 97 @54472 has 5 MA's), (Start: 105 @54448 has 315 MA's), (Start: 116 @54424 has 6 MA's), (Start: 118 @54418 has 2 MA's), (123, 54376), (125, 54355), (149, 54241), (151, 54235), (155, 54205), (167, 54145), (171, 54124), (180, 54070), (183, 54058), (186, 54040), (188, 54028), (207, 53923), (214, 53866), (218, 53830), (219, 53818), (225, 53791), (229, 53764), (231, 53746), (233, 53728), (241, 53689), (242, 53680), (243, 53677), (244, 53674), (289, 53317), (292, 53284), (295, 53263), (303, 53170), (305, 53161), (309, 53098), (313, 53062), (314, 53059), (317, 53044), (326, 52966), (327, 52954), (329, 52933), (337, 52894), (351, 52804), (354, 52786), (355, 52780), (357, 52765), (361, 52741), (363, 52726), (364, 52723), (365, 52711), (369, 52687), (378, 52639), (381, 52615),

Gene: Cannibal_60 Start: 54292, Stop: 52433, Start Num: 105

Candidate Starts for Cannibal_60:

(Start: 97 @54316 has 5 MA's), (Start: 105 @54292 has 315 MA's), (Start: 116 @54268 has 6 MA's), (Start: 118 @54262 has 2 MA's), (123, 54220), (125, 54199), (149, 54085), (151, 54079), (155, 54049), (167, 53989), (171, 53968), (180, 53914), (183, 53902), (186, 53884), (188, 53872), (207, 53767), (214, 53710), (218, 53674), (219, 53662), (225, 53635), (231, 53590), (241, 53533), (242, 53524), (243, 53521), (289, 53161), (292, 53128), (295, 53107), (303, 53014), (305, 53005), (309, 52942), (313, 52906), (314, 52903), (317, 52888), (326, 52810), (327, 52798), (329, 52777), (337, 52738), (351, 52648), (354, 52630), (355, 52624), (357, 52609), (361, 52585), (363, 52570), (364, 52567), (365, 52555), (369, 52531), (378, 52483), (381, 52459),

Gene: Carthage_59 Start: 53529, Stop: 51670, Start Num: 105

Candidate Starts for Carthage_59:

(26, 53925), (43, 53838), (47, 53823), (50, 53817), (53, 53802), (57, 53784), (Start: 97 @53553 has 5 MA's), (Start: 105 @53529 has 315 MA's), (Start: 116 @53505 has 6 MA's), (Start: 118 @53499 has 2 MA's), (123, 53457), (125, 53436), (149, 53322), (151, 53316), (155, 53286), (167, 53226), (171, 53205), (180, 53151), (183, 53139), (188, 53109), (207, 53004), (214, 52947), (218, 52911), (219, 52899), (225, 52872), (226, 52863), (231, 52827), (233, 52809), (241, 52770), (242, 52761), (243, 52758), (289, 52398), (292, 52365), (295, 52344), (303, 52251), (305, 52242), (309, 52179), (313, 52143), (314, 52140), (317, 52125), (326, 52047), (327, 52035), (329, 52014), (337, 51975), (351, 51885), (354, 51867), (355, 51861), (357, 51846), (361, 51822), (363, 51807), (364, 51804), (365, 51792), (369, 51768), (378, 51720), (381, 51696),

Gene: Casbah_58 Start: 53994, Stop: 52177, Start Num: 117

Candidate Starts for Casbah_58:

(75, 54177), (Start: 117 @53994 has 46 MA's), (120, 53964), (159, 53784), (185, 53631), (187, 53619), (192, 53589), (194, 53583), (207, 53520), (208, 53514), (214, 53463), (218, 53427), (226, 53379), (243, 53274), (257, 53178), (265, 53127), (282, 52983), (287, 52944), (290, 52914), (292, 52887),

(294, 52875), (302, 52779), (303, 52773), (305, 52764), (306, 52752), (311, 52680), (313, 52650), (317, 52632), (318, 52623), (326, 52554), (327, 52542), (329, 52521), (342, 52452), (345, 52437), (350, 52413), (351, 52392), (354, 52374), (355, 52368), (360, 52335), (361, 52329), (364, 52311), (365, 52299), (367, 52287), (369, 52275), (376, 52233), (381, 52203),

Gene: Caspiroi_61 Start: 54270, Stop: 52411, Start Num: 105

Candidate Starts for Caspiroi_61:

(Start: 97 @54294 has 5 MA's), (Start: 105 @54270 has 315 MA's), (Start: 116 @54246 has 6 MA's), (Start: 118 @54240 has 2 MA's), (123, 54198), (125, 54177), (149, 54063), (151, 54057), (155, 54027), (167, 53967), (171, 53946), (180, 53892), (183, 53880), (186, 53862), (188, 53850), (207, 53745), (214, 53688), (218, 53652), (219, 53640), (225, 53613), (231, 53568), (241, 53511), (242, 53502), (243, 53499), (275, 53241), (289, 53139), (292, 53106), (295, 53085), (303, 52992), (305, 52983), (309, 52920), (313, 52884), (314, 52881), (317, 52866), (326, 52788), (327, 52776), (329, 52755), (337, 52716), (351, 52626), (354, 52608), (355, 52602), (357, 52587), (361, 52563), (363, 52548), (364, 52545), (365, 52533), (369, 52509), (372, 52488), (378, 52461), (381, 52437), (382, 52422),

Gene: Causa_86 Start: 64971, Stop: 63172, Start Num: 116

Candidate Starts for Causa_86:

(Start: 116 @64971 has 6 MA's), (120, 64938), (123, 64923), (124, 64911), (131, 64884), (141, 64866), (144, 64839), (163, 64746), (167, 64728), (170, 64710), (180, 64653), (190, 64602), (214, 64461), (217, 64434), (218, 64425), (234, 64311), (243, 64272), (248, 64242), (251, 64224), (265, 64110), (275, 64005), (278, 63990), (289, 63903), (292, 63870), (293, 63864), (302, 63762), (303, 63756), (305, 63747), (313, 63648), (314, 63645), (317, 63630), (319, 63615), (326, 63552), (327, 63540), (329, 63519), (348, 63423), (351, 63390), (361, 63327), (365, 63297), (366, 63291), (367, 63285), (369, 63273), (377, 63225), (381, 63198), (382, 63183), (383, 63177),

Gene: ChaChing_58 Start: 53696, Stop: 51879, Start Num: 117

Candidate Starts for ChaChing_58:

(75, 53879), (Start: 117 @53696 has 46 MA's), (120, 53666), (159, 53486), (185, 53333), (187, 53321), (192, 53291), (194, 53285), (207, 53222), (208, 53216), (214, 53165), (218, 53129), (226, 53081), (243, 52976), (257, 52880), (265, 52829), (282, 52685), (287, 52646), (290, 52616), (292, 52589), (294, 52577), (302, 52481), (303, 52475), (305, 52466), (306, 52454), (311, 52382), (313, 52352), (317, 52334), (318, 52325), (326, 52256), (327, 52244), (329, 52223), (342, 52154), (345, 52139), (350, 52115), (351, 52094), (355, 52070), (361, 52031), (364, 52013), (365, 52001), (367, 51989), (369, 51977), (376, 51935), (381, 51905),

Gene: Chaelin_61 Start: 54580, Stop: 52721, Start Num: 105

Candidate Starts for Chaelin_61:

(Start: 97 @54604 has 5 MA's), (Start: 105 @54580 has 315 MA's), (Start: 116 @54556 has 6 MA's), (Start: 118 @54550 has 2 MA's), (123, 54508), (125, 54487), (149, 54373), (151, 54367), (155, 54337), (167, 54277), (171, 54256), (180, 54202), (183, 54190), (186, 54172), (188, 54160), (207, 54055), (214, 53998), (218, 53962), (219, 53950), (224, 53926), (226, 53914), (229, 53896), (231, 53878), (233, 53860), (241, 53821), (242, 53812), (243, 53809), (244, 53806), (289, 53449), (292, 53416), (295, 53395), (303, 53302), (305, 53293), (309, 53230), (313, 53194), (314, 53191), (317, 53176), (326, 53098), (327, 53086), (329, 53065), (337, 53026), (351, 52936), (354, 52918), (355, 52912), (357, 52897), (361, 52873), (363, 52858), (364, 52855), (365, 52843), (369, 52819), (378, 52771), (381, 52747),

Gene: Chah_62 Start: 53995, Stop: 52136, Start Num: 105

Candidate Starts for Chah_62:

(Start: 97 @54019 has 5 MA's), (Start: 105 @53995 has 315 MA's), (Start: 116 @53971 has 6 MA's), (Start: 118 @53965 has 2 MA's), (123, 53923), (125, 53902), (149, 53788), (151, 53782), (155, 53752), (167, 53692), (171, 53671), (180, 53617), (183, 53605), (186, 53587), (188, 53575), (207, 53470),

(214, 53413), (218, 53377), (219, 53365), (225, 53338), (229, 53311), (231, 53293), (233, 53275), (241, 53236), (242, 53227), (243, 53224), (275, 52966), (289, 52864), (292, 52831), (295, 52810), (303, 52717), (305, 52708), (309, 52645), (313, 52609), (314, 52606), (317, 52591), (326, 52513), (327, 52501), (329, 52480), (337, 52441), (351, 52351), (354, 52333), (355, 52327), (357, 52312), (361, 52288), (363, 52273), (364, 52270), (365, 52258), (369, 52234), (378, 52186), (381, 52162),

Gene: Chalmers_57 Start: 54135, Stop: 52318, Start Num: 117

Candidate Starts for Chalmers_57:

(75, 54318), (Start: 117 @54135 has 46 MA's), (120, 54105), (159, 53925), (185, 53772), (187, 53760), (192, 53730), (194, 53724), (207, 53661), (208, 53655), (214, 53604), (217, 53577), (218, 53568), (226, 53520), (243, 53415), (257, 53319), (265, 53268), (282, 53124), (287, 53085), (290, 53055), (292, 53028), (294, 53016), (302, 52920), (303, 52914), (305, 52905), (306, 52893), (311, 52821), (313, 52791), (317, 52773), (318, 52764), (326, 52695), (327, 52683), (329, 52662), (342, 52593), (345, 52578), (350, 52554), (351, 52533), (354, 52515), (355, 52509), (360, 52476), (361, 52470), (364, 52452), (365, 52440), (367, 52428), (369, 52416), (376, 52374), (381, 52344),

Gene: Chandler_58 Start: 54464, Stop: 52647, Start Num: 117

Candidate Starts for Chandler_58:

(75, 54647), (Start: 117 @54464 has 46 MA's), (120, 54434), (159, 54254), (178, 54149), (185, 54101), (187, 54089), (192, 54059), (194, 54053), (207, 53990), (208, 53984), (214, 53933), (218, 53897), (226, 53849), (243, 53744), (257, 53648), (265, 53597), (282, 53453), (287, 53414), (290, 53384), (292, 53357), (294, 53345), (302, 53249), (303, 53243), (305, 53234), (306, 53222), (311, 53150), (313, 53120), (317, 53102), (318, 53093), (326, 53024), (327, 53012), (329, 52991), (342, 52922), (345, 52907), (350, 52883), (351, 52862), (354, 52844), (355, 52838), (360, 52805), (361, 52799), (364, 52781), (365, 52769), (367, 52757), (369, 52745), (376, 52703), (381, 52673),

Gene: Charles1_61 Start: 54304, Stop: 52445, Start Num: 105

Candidate Starts for Charles1_61:

(Start: 97 @54328 has 5 MA's), (Start: 105 @54304 has 315 MA's), (Start: 116 @54280 has 6 MA's), (Start: 118 @54274 has 2 MA's), (123, 54232), (125, 54211), (149, 54097), (151, 54091), (155, 54061), (167, 54001), (171, 53980), (180, 53926), (183, 53914), (186, 53896), (188, 53884), (207, 53779), (214, 53722), (218, 53686), (219, 53674), (225, 53647), (229, 53620), (231, 53602), (233, 53584), (241, 53545), (242, 53536), (243, 53533), (289, 53173), (292, 53140), (295, 53119), (303, 53026), (305, 53017), (309, 52954), (313, 52918), (314, 52915), (317, 52900), (326, 52822), (327, 52810), (329, 52789), (337, 52750), (351, 52660), (354, 52642), (355, 52636), (357, 52621), (361, 52597), (363, 52582), (364, 52579), (365, 52567), (369, 52543), (378, 52495), (381, 52471),

Gene: CharlieGBrown_61 Start: 54143, Stop: 52284, Start Num: 105

Candidate Starts for CharlieGBrown_61:

(Start: 97 @54167 has 5 MA's), (Start: 105 @54143 has 315 MA's), (Start: 116 @54119 has 6 MA's), (Start: 118 @54113 has 2 MA's), (123, 54071), (125, 54050), (149, 53936), (151, 53930), (155, 53900), (167, 53840), (171, 53819), (180, 53765), (183, 53753), (186, 53735), (188, 53723), (207, 53618), (214, 53561), (218, 53525), (219, 53513), (224, 53489), (226, 53477), (229, 53459), (231, 53441), (233, 53423), (241, 53384), (242, 53375), (243, 53372), (244, 53369), (275, 53114), (289, 53012), (292, 52979), (295, 52958), (303, 52865), (305, 52856), (309, 52793), (313, 52757), (314, 52754), (317, 52739), (326, 52661), (327, 52649), (329, 52628), (337, 52589), (351, 52499), (354, 52481), (355, 52475), (357, 52460), (361, 52436), (363, 52421), (364, 52418), (365, 52406), (369, 52382), (372, 52361), (378, 52334), (381, 52310), (382, 52295),

Gene: CharlottesWeb_50 Start: 45347, Stop: 43530, Start Num: 115

Candidate Starts for CharlottesWeb_50:

(52, 45662), (62, 45626), (63, 45620), (71, 45587), (Start: 115 @45347 has 14 MA's), (120, 45311), (122, 45299), (123, 45296), (128, 45266), (154, 45140), (164, 45092), (178, 45017), (188, 44960),

(204, 44885), (207, 44864), (218, 44771), (238, 44642), (243, 44618), (282, 44327), (284, 44306), (287, 44288), (292, 44231), (303, 44117), (305, 44108), (314, 44006), (317, 43991), (326, 43913), (327, 43901), (329, 43880), (331, 43871), (341, 43817), (348, 43784), (351, 43751), (352, 43748), (357, 43712), (361, 43688), (369, 43628), (381, 43556),

Gene: CheetO_60 Start: 54266, Stop: 52407, Start Num: 105

Candidate Starts for CheetO_60:

(Start: 97 @54290 has 5 MA's), (Start: 105 @54266 has 315 MA's), (Start: 116 @54242 has 6 MA's), (Start: 118 @54236 has 2 MA's), (123, 54194), (125, 54173), (149, 54059), (151, 54053), (155, 54023), (167, 53963), (171, 53942), (180, 53888), (183, 53876), (186, 53858), (188, 53846), (207, 53741), (214, 53684), (218, 53648), (219, 53636), (224, 53612), (226, 53600), (229, 53582), (231, 53564), (233, 53546), (241, 53507), (242, 53498), (243, 53495), (244, 53492), (289, 53135), (292, 53102), (295, 53081), (303, 52988), (305, 52979), (309, 52916), (313, 52880), (314, 52877), (317, 52862), (326, 52784), (327, 52772), (329, 52751), (337, 52712), (351, 52622), (354, 52604), (355, 52598), (357, 52583), (361, 52559), (363, 52544), (364, 52541), (365, 52529), (369, 52505), (378, 52457), (381, 52433),

Gene: Chentzyk_59 Start: 54416, Stop: 52599, Start Num: 117

Candidate Starts for Chentzyk_59:

(75, 54599), (Start: 117 @54416 has 46 MA's), (120, 54386), (159, 54206), (185, 54053), (187, 54041), (192, 54011), (194, 54005), (207, 53942), (208, 53936), (214, 53885), (217, 53858), (218, 53849), (226, 53801), (243, 53696), (257, 53600), (265, 53549), (282, 53405), (287, 53366), (290, 53336), (292, 53309), (294, 53297), (302, 53201), (303, 53195), (305, 53186), (306, 53174), (311, 53102), (313, 53072), (317, 53054), (318, 53045), (326, 52976), (327, 52964), (329, 52943), (342, 52874), (345, 52859), (350, 52835), (351, 52814), (354, 52796), (355, 52790), (360, 52757), (361, 52751), (364, 52733), (365, 52721), (367, 52709), (369, 52697), (376, 52655), (381, 52625),

Gene: Cher_60 Start: 54560, Stop: 52701, Start Num: 105

Candidate Starts for Cher_60:

(Start: 97 @54584 has 5 MA's), (Start: 105 @54560 has 315 MA's), (Start: 116 @54536 has 6 MA's), (Start: 118 @54530 has 2 MA's), (123, 54488), (125, 54467), (149, 54353), (151, 54347), (155, 54317), (167, 54257), (171, 54236), (180, 54182), (183, 54170), (186, 54152), (188, 54140), (207, 54035), (214, 53978), (218, 53942), (219, 53930), (225, 53903), (231, 53858), (241, 53801), (242, 53792), (243, 53789), (289, 53429), (292, 53396), (295, 53375), (303, 53282), (305, 53273), (309, 53210), (313, 53174), (314, 53171), (317, 53156), (326, 53078), (327, 53066), (329, 53045), (337, 53006), (351, 52916), (354, 52898), (355, 52892), (357, 52877), (361, 52853), (363, 52838), (364, 52835), (365, 52823), (369, 52799), (378, 52751), (381, 52727),

Gene: Childish_60 Start: 54571, Stop: 52712, Start Num: 105

Candidate Starts for Childish_60:

(Start: 97 @54595 has 5 MA's), (Start: 105 @54571 has 315 MA's), (Start: 116 @54547 has 6 MA's), (Start: 118 @54541 has 2 MA's), (123, 54499), (125, 54478), (149, 54364), (151, 54358), (155, 54328), (167, 54268), (171, 54247), (180, 54193), (183, 54181), (186, 54163), (188, 54151), (207, 54046), (214, 53989), (218, 53953), (219, 53941), (225, 53914), (229, 53887), (231, 53869), (233, 53851), (241, 53812), (242, 53803), (243, 53800), (275, 53542), (289, 53440), (292, 53407), (295, 53386), (303, 53293), (305, 53284), (309, 53221), (313, 53185), (314, 53182), (317, 53167), (326, 53089), (327, 53077), (329, 53056), (337, 53017), (351, 52927), (354, 52909), (355, 52903), (357, 52888), (361, 52864), (363, 52849), (364, 52846), (365, 52834), (369, 52810), (372, 52789), (378, 52762), (381, 52738),

Gene: Chipette_61 Start: 54255, Stop: 52396, Start Num: 105

Candidate Starts for Chipette_61:

(Start: 97 @54279 has 5 MA's), (Start: 105 @54255 has 315 MA's), (Start: 116 @54231 has 6 MA's),
(Start: 118 @54225 has 2 MA's), (123, 54183), (125, 54162), (149, 54048), (151, 54042), (155, 54012),
(167, 53952), (171, 53931), (180, 53877), (183, 53865), (186, 53847), (188, 53835), (207, 53730),
(214, 53673), (218, 53637), (219, 53625), (224, 53601), (226, 53589), (229, 53571), (231, 53553),
(233, 53535), (241, 53496), (242, 53487), (243, 53484), (244, 53481), (289, 53124), (292, 53091),
(295, 53070), (303, 52977), (305, 52968), (309, 52905), (313, 52869), (314, 52866), (317, 52851),
(326, 52773), (327, 52761), (329, 52740), (337, 52701), (351, 52611), (354, 52593), (355, 52587),
(357, 52572), (361, 52548), (363, 52533), (364, 52530), (365, 52518), (369, 52494), (378, 52446),
(381, 52422),

Gene: Chorkpop_60 Start: 54047, Stop: 52188, Start Num: 105

Candidate Starts for Chorkpop_60:

(Start: 97 @54071 has 5 MA's), (Start: 105 @54047 has 315 MA's), (Start: 116 @54023 has 6 MA's),
(Start: 118 @54017 has 2 MA's), (123, 53975), (125, 53954), (149, 53840), (151, 53834), (155, 53804),
(167, 53744), (171, 53723), (180, 53669), (183, 53657), (186, 53639), (188, 53627), (207, 53522),
(214, 53465), (218, 53429), (219, 53417), (225, 53390), (229, 53363), (231, 53345), (233, 53327),
(241, 53288), (242, 53279), (243, 53276), (275, 53018), (289, 52916), (292, 52883), (295, 52862),
(303, 52769), (305, 52760), (309, 52697), (313, 52661), (314, 52658), (317, 52643), (326, 52565),
(327, 52553), (329, 52532), (337, 52493), (351, 52403), (354, 52385), (355, 52379), (357, 52364),
(361, 52340), (363, 52325), (364, 52322), (365, 52310), (369, 52286), (378, 52238), (381, 52214),

Gene: ChrisnMich_53 Start: 52982, Stop: 51141, Start Num: 97

Candidate Starts for ChrisnMich_53:

(Start: 97 @52982 has 5 MA's), (Start: 101 @52964 has 17 MA's), (Start: 118 @52940 has 2 MA's),
(120, 52913), (123, 52898), (125, 52877), (146, 52790), (166, 52685), (173, 52643), (186, 52577),
(191, 52547), (192, 52538), (193, 52535), (194, 52532), (214, 52412), (216, 52394), (218, 52376),
(219, 52364), (223, 52349), (225, 52337), (242, 52226), (243, 52223), (248, 52193), (252, 52157),
(282, 51932), (283, 51929), (287, 51893), (289, 51869), (292, 51836), (302, 51728), (303, 51722),
(305, 51713), (313, 51614), (314, 51611), (317, 51596), (326, 51518), (327, 51506), (329, 51485),
(331, 51476), (337, 51446), (348, 51389), (351, 51356), (354, 51338), (355, 51332), (361, 51293),
(364, 51275), (365, 51263), (369, 51239), (376, 51197), (378, 51191), (381, 51167),

Gene: Chuni_63 Start: 54807, Stop: 52948, Start Num: 105

Candidate Starts for Chuni_63:

(Start: 97 @54831 has 5 MA's), (Start: 105 @54807 has 315 MA's), (Start: 116 @54783 has 6 MA's),
(Start: 118 @54777 has 2 MA's), (123, 54735), (125, 54714), (149, 54600), (151, 54594), (155, 54564),
(167, 54504), (171, 54483), (180, 54429), (183, 54417), (186, 54399), (188, 54387), (207, 54282),
(214, 54225), (218, 54189), (219, 54177), (224, 54153), (226, 54141), (229, 54123), (231, 54105),
(233, 54087), (241, 54048), (242, 54039), (243, 54036), (244, 54033), (289, 53676), (292, 53643),
(295, 53622), (303, 53529), (305, 53520), (309, 53457), (313, 53421), (314, 53418), (317, 53403),
(326, 53325), (327, 53313), (329, 53292), (337, 53253), (351, 53163), (354, 53145), (355, 53139),
(357, 53124), (361, 53100), (363, 53085), (364, 53082), (365, 53070), (369, 53046), (378, 52998),
(381, 52974),

Gene: Chunky_59 Start: 53596, Stop: 51737, Start Num: 105

Candidate Starts for Chunky_59:

(Start: 97 @53620 has 5 MA's), (Start: 105 @53596 has 315 MA's), (Start: 116 @53572 has 6 MA's),
(Start: 118 @53566 has 2 MA's), (123, 53524), (125, 53503), (149, 53389), (151, 53383), (155, 53353),
(167, 53293), (171, 53272), (180, 53218), (183, 53206), (186, 53188), (188, 53176), (207, 53071),
(214, 53014), (218, 52978), (219, 52966), (225, 52939), (226, 52930), (231, 52894), (241, 52837),
(242, 52828), (243, 52825), (244, 52822), (289, 52465), (292, 52432), (295, 52411), (303, 52318),
(305, 52309), (309, 52246), (313, 52210), (314, 52207), (317, 52192), (326, 52114), (327, 52102),
(329, 52081), (337, 52042), (351, 51952), (354, 51934), (355, 51928), (357, 51913), (361, 51889),

(363, 51874), (364, 51871), (365, 51859), (369, 51835), (378, 51787), (381, 51763),

Gene: Chute_62 Start: 54608, Stop: 52749, Start Num: 105

Candidate Starts for Chute_62:

(Start: 97 @54632 has 5 MA's), (Start: 105 @54608 has 315 MA's), (Start: 116 @54584 has 6 MA's),
(Start: 118 @54578 has 2 MA's), (123, 54536), (125, 54515), (149, 54401), (151, 54395), (155, 54365),
(167, 54305), (171, 54284), (180, 54230), (183, 54218), (186, 54200), (188, 54188), (207, 54083),
(214, 54026), (218, 53990), (219, 53978), (224, 53954), (226, 53942), (229, 53924), (231, 53906),
(233, 53888), (241, 53849), (242, 53840), (243, 53837), (244, 53834), (289, 53477), (292, 53444),
(295, 53423), (303, 53330), (305, 53321), (309, 53258), (313, 53222), (314, 53219), (317, 53204),
(326, 53126), (327, 53114), (329, 53093), (337, 53054), (351, 52964), (354, 52946), (355, 52940),
(357, 52925), (361, 52901), (363, 52886), (364, 52883), (365, 52871), (369, 52847), (378, 52799),
(381, 52775),

Gene: CloverMinnie_53 Start: 47593, Stop: 45776, Start Num: 115

Candidate Starts for CloverMinnie_53:

(Start: 115 @47593 has 14 MA's), (Start: 118 @47584 has 2 MA's), (120, 47557), (122, 47545), (125,
47521), (128, 47512), (149, 47416), (157, 47374), (164, 47338), (178, 47263), (191, 47188), (207,
47110), (214, 47053), (218, 47017), (219, 47005), (224, 46981), (238, 46888), (243, 46864), (246,
46846), (282, 46573), (287, 46534), (290, 46504), (292, 46477), (302, 46369), (303, 46363), (305,
46354), (312, 46264), (313, 46255), (314, 46252), (317, 46237), (326, 46159), (327, 46147), (328,
46141), (329, 46126), (339, 46078), (348, 46030), (351, 45997), (355, 45973), (361, 45934), (363,
45919), (369, 45874), (381, 45802),

Gene: Cobra_62 Start: 54586, Stop: 52727, Start Num: 105

Candidate Starts for Cobra_62:

(Start: 97 @54610 has 5 MA's), (Start: 105 @54586 has 315 MA's), (Start: 116 @54562 has 6 MA's),
(Start: 118 @54556 has 2 MA's), (123, 54514), (125, 54493), (149, 54379), (151, 54373), (155, 54343),
(167, 54283), (171, 54262), (180, 54208), (183, 54196), (186, 54178), (188, 54166), (207, 54061),
(214, 54004), (218, 53968), (224, 53932), (226, 53920), (229, 53902), (231, 53884), (233, 53866),
(241, 53827), (242, 53818), (243, 53815), (244, 53812), (275, 53557), (289, 53455), (292, 53422),
(295, 53401), (303, 53308), (305, 53299), (309, 53236), (313, 53200), (314, 53197), (317, 53182),
(326, 53104), (327, 53092), (329, 53071), (337, 53032), (351, 52942), (354, 52924), (355, 52918),
(357, 52903), (361, 52879), (363, 52864), (364, 52861), (365, 52849), (369, 52825), (378, 52777),
(381, 52753),

Gene: Coffee_57 Start: 52600, Stop: 50771, Start Num: 105

Candidate Starts for Coffee_57:

(Start: 105 @52600 has 315 MA's), (Start: 118 @52573 has 2 MA's), (121, 52543), (123, 52531), (127,
52504), (128, 52501), (132, 52492), (141, 52474), (157, 52378), (167, 52327), (172, 52303), (175,
52279), (199, 52141), (205, 52117), (207, 52105), (214, 52048), (218, 52012), (219, 52000), (224,
51976), (235, 51892), (242, 51862), (243, 51859), (248, 51829), (268, 51685), (274, 51619), (280,
51580), (282, 51568), (284, 51547), (287, 51529), (292, 51472), (297, 51415), (301, 51388), (303,
51358), (305, 51349), (309, 51283), (312, 51256), (313, 51247), (317, 51229), (320, 51205), (326,
51151), (327, 51139), (329, 51118), (342, 51049), (351, 50989), (354, 50971), (358, 50938), (361,
50926), (363, 50911), (364, 50908), (365, 50896), (369, 50872), (370, 50869), (378, 50821), (379,
50818), (381, 50797), (383, 50776),

Gene: Colbert_59 Start: 53606, Stop: 51747, Start Num: 105

Candidate Starts for Colbert_59:

(Start: 97 @53630 has 5 MA's), (Start: 105 @53606 has 315 MA's), (Start: 116 @53582 has 6 MA's),
(Start: 118 @53576 has 2 MA's), (123, 53534), (125, 53513), (149, 53399), (151, 53393), (155, 53363),
(167, 53303), (171, 53282), (180, 53228), (183, 53216), (186, 53198), (188, 53186), (207, 53081),

(214, 53024), (218, 52988), (219, 52976), (225, 52949), (229, 52922), (231, 52904), (233, 52886), (241, 52847), (242, 52838), (243, 52835), (244, 52832), (289, 52475), (292, 52442), (295, 52421), (303, 52328), (305, 52319), (309, 52256), (313, 52220), (314, 52217), (317, 52202), (326, 52124), (327, 52112), (329, 52091), (337, 52052), (351, 51962), (354, 51944), (355, 51938), (357, 51923), (361, 51899), (363, 51884), (364, 51881), (365, 51869), (369, 51845), (378, 51797), (381, 51773),

Gene: Coldpizza_51 Start: 48550, Stop: 46769, Start Num: 114

Candidate Starts for Coldpizza_51:

(Start: 87 @48637 has 1 MA's), (Start: 114 @48550 has 1 MA's), (122, 48505), (151, 48388), (167, 48304), (176, 48250), (194, 48160), (207, 48094), (214, 48037), (218, 48001), (219, 47989), (227, 47947), (243, 47848), (282, 47557), (292, 47461), (299, 47389), (302, 47356), (303, 47350), (305, 47341), (309, 47278), (314, 47239), (317, 47224), (319, 47209), (326, 47146), (327, 47134), (329, 47113), (331, 47104), (337, 47074), (345, 47029), (350, 47005), (351, 46984), (355, 46960), (361, 46921), (369, 46867), (381, 46795),

Gene: Coletti_63 Start: 55108, Stop: 53249, Start Num: 105

Candidate Starts for Coletti_63:

(Start: 97 @55132 has 5 MA's), (Start: 105 @55108 has 315 MA's), (Start: 116 @55084 has 6 MA's), (Start: 118 @55078 has 2 MA's), (123, 55036), (125, 55015), (149, 54901), (151, 54895), (155, 54865), (167, 54805), (171, 54784), (180, 54730), (183, 54718), (186, 54700), (188, 54688), (207, 54583), (214, 54526), (218, 54490), (219, 54478), (224, 54454), (226, 54442), (229, 54424), (231, 54406), (233, 54388), (241, 54349), (242, 54340), (243, 54337), (244, 54334), (289, 53977), (292, 53944), (295, 53923), (303, 53830), (305, 53821), (309, 53758), (313, 53722), (314, 53719), (317, 53704), (326, 53626), (327, 53614), (329, 53593), (337, 53554), (351, 53464), (354, 53446), (355, 53440), (357, 53425), (361, 53401), (363, 53386), (364, 53383), (365, 53371), (369, 53347), (378, 53299), (381, 53275),

Gene: Compostia_58 Start: 54083, Stop: 52266, Start Num: 117

Candidate Starts for Compostia_58:

(75, 54266), (Start: 117 @54083 has 46 MA's), (120, 54053), (159, 53873), (185, 53720), (187, 53708), (192, 53678), (194, 53672), (207, 53609), (208, 53603), (214, 53552), (217, 53525), (218, 53516), (226, 53468), (243, 53363), (257, 53267), (265, 53216), (282, 53072), (287, 53033), (290, 53003), (292, 52976), (294, 52964), (302, 52868), (303, 52862), (305, 52853), (306, 52841), (311, 52769), (313, 52739), (317, 52721), (318, 52712), (326, 52643), (327, 52631), (329, 52610), (342, 52541), (345, 52526), (350, 52502), (351, 52481), (354, 52463), (355, 52457), (360, 52424), (361, 52418), (364, 52400), (365, 52388), (367, 52376), (369, 52364), (376, 52322), (381, 52292),

Gene: Cooper_54 Start: 53229, Stop: 51376, Start Num: 101

Candidate Starts for Cooper_54:

(36, 53559), (68, 53439), (Start: 97 @53247 has 5 MA's), (Start: 101 @53229 has 17 MA's), (Start: 115 @53184 has 14 MA's), (Start: 118 @53175 has 2 MA's), (120, 53148), (123, 53133), (125, 53112), (146, 53025), (149, 53007), (166, 52920), (171, 52893), (173, 52878), (186, 52812), (191, 52782), (192, 52773), (193, 52770), (194, 52767), (199, 52740), (214, 52647), (216, 52629), (218, 52611), (219, 52599), (225, 52572), (241, 52470), (242, 52461), (243, 52458), (248, 52428), (282, 52167), (283, 52164), (287, 52128), (289, 52104), (292, 52071), (302, 51963), (303, 51957), (305, 51948), (313, 51849), (317, 51831), (326, 51753), (327, 51741), (329, 51720), (331, 51711), (342, 51651), (348, 51624), (351, 51591), (354, 51573), (355, 51567), (361, 51528), (363, 51513), (364, 51510), (365, 51498), (369, 51474), (376, 51432), (378, 51426), (381, 51402), (383, 51381),

Gene: Cornbread_60 Start: 54072, Stop: 52213, Start Num: 105

Candidate Starts for Cornbread_60:

(Start: 97 @54096 has 5 MA's), (Start: 105 @54072 has 315 MA's), (Start: 116 @54048 has 6 MA's), (Start: 118 @54042 has 2 MA's), (123, 54000), (125, 53979), (149, 53865), (151, 53859), (155, 53829),

(167, 53769), (171, 53748), (180, 53694), (183, 53682), (186, 53664), (188, 53652), (207, 53547), (214, 53490), (218, 53454), (219, 53442), (224, 53418), (226, 53406), (229, 53388), (231, 53370), (233, 53352), (241, 53313), (242, 53304), (243, 53301), (244, 53298), (289, 52941), (292, 52908), (295, 52887), (303, 52794), (305, 52785), (309, 52722), (313, 52686), (314, 52683), (317, 52668), (326, 52590), (327, 52578), (329, 52557), (337, 52518), (351, 52428), (354, 52410), (355, 52404), (357, 52389), (361, 52365), (363, 52350), (364, 52347), (365, 52335), (369, 52311), (378, 52263), (381, 52239),

Gene: Cornobble_60 Start: 54040, Stop: 52181, Start Num: 105

Candidate Starts for Cornobble_60:

(Start: 97 @54064 has 5 MA's), (Start: 105 @54040 has 315 MA's), (Start: 116 @54016 has 6 MA's), (Start: 118 @54010 has 2 MA's), (123, 53968), (125, 53947), (149, 53833), (151, 53827), (155, 53797), (167, 53737), (171, 53716), (180, 53662), (183, 53650), (186, 53632), (188, 53620), (207, 53515), (214, 53458), (218, 53422), (219, 53410), (224, 53386), (226, 53374), (229, 53356), (231, 53338), (233, 53320), (241, 53281), (242, 53272), (243, 53269), (244, 53266), (289, 52909), (292, 52876), (295, 52855), (303, 52762), (305, 52753), (309, 52690), (313, 52654), (314, 52651), (317, 52636), (326, 52558), (327, 52546), (329, 52525), (337, 52486), (351, 52396), (354, 52378), (355, 52372), (357, 52357), (361, 52333), (363, 52318), (364, 52315), (365, 52303), (369, 52279), (378, 52231), (381, 52207),

Gene: Corofin_58 Start: 53707, Stop: 51890, Start Num: 117

Candidate Starts for Corofin_58:

(75, 53890), (Start: 117 @53707 has 46 MA's), (120, 53677), (159, 53497), (185, 53344), (187, 53332), (192, 53302), (194, 53296), (207, 53233), (208, 53227), (214, 53176), (218, 53140), (226, 53092), (243, 52987), (257, 52891), (265, 52840), (282, 52696), (287, 52657), (290, 52627), (292, 52600), (294, 52588), (302, 52492), (303, 52486), (305, 52477), (306, 52465), (311, 52393), (313, 52363), (317, 52345), (318, 52336), (326, 52267), (327, 52255), (329, 52234), (342, 52165), (345, 52150), (350, 52126), (351, 52105), (354, 52087), (355, 52081), (360, 52048), (361, 52042), (364, 52024), (365, 52012), (367, 52000), (369, 51988), (376, 51946), (381, 51916),

Gene: Cosmolli16_61 Start: 54750, Stop: 52891, Start Num: 105

Candidate Starts for Cosmolli16_61:

(Start: 97 @54774 has 5 MA's), (Start: 105 @54750 has 315 MA's), (Start: 116 @54726 has 6 MA's), (Start: 118 @54720 has 2 MA's), (123, 54678), (125, 54657), (149, 54543), (151, 54537), (155, 54507), (167, 54447), (171, 54426), (180, 54372), (183, 54360), (186, 54342), (188, 54330), (207, 54225), (214, 54168), (218, 54132), (219, 54120), (225, 54093), (231, 54048), (233, 54030), (241, 53991), (242, 53982), (243, 53979), (244, 53976), (289, 53619), (292, 53586), (295, 53565), (303, 53472), (305, 53463), (309, 53400), (313, 53364), (314, 53361), (317, 53346), (326, 53268), (327, 53256), (329, 53235), (337, 53196), (351, 53106), (354, 53088), (355, 53082), (357, 53067), (361, 53043), (363, 53028), (364, 53025), (365, 53013), (369, 52989), (378, 52941), (381, 52917),

Gene: Craff_63 Start: 54995, Stop: 53136, Start Num: 105

Candidate Starts for Craff_63:

(Start: 97 @55019 has 5 MA's), (Start: 105 @54995 has 315 MA's), (Start: 116 @54971 has 6 MA's), (Start: 118 @54965 has 2 MA's), (123, 54923), (125, 54902), (149, 54788), (151, 54782), (155, 54752), (167, 54692), (171, 54671), (180, 54617), (183, 54605), (186, 54587), (188, 54575), (207, 54470), (214, 54413), (218, 54377), (219, 54365), (225, 54338), (229, 54311), (231, 54293), (233, 54275), (241, 54236), (242, 54227), (243, 54224), (289, 53864), (292, 53831), (295, 53810), (303, 53717), (305, 53708), (309, 53645), (314, 53606), (317, 53591), (326, 53513), (327, 53501), (329, 53480), (337, 53441), (350, 53372), (351, 53351), (354, 53333), (355, 53327), (357, 53312), (361, 53288), (363, 53273), (364, 53270), (365, 53258), (369, 53234), (378, 53186), (381, 53162),

Gene: Crownjwl_60 Start: 54069, Stop: 52210, Start Num: 105

Candidate Starts for Crownjwl_60:

(Start: 97 @54093 has 5 MA's), (Start: 105 @54069 has 315 MA's), (Start: 116 @54045 has 6 MA's),
(Start: 118 @54039 has 2 MA's), (123, 53997), (125, 53976), (149, 53862), (151, 53856), (155, 53826),
(167, 53766), (171, 53745), (180, 53691), (183, 53679), (186, 53661), (188, 53649), (207, 53544),
(214, 53487), (218, 53451), (219, 53439), (224, 53415), (226, 53403), (229, 53385), (231, 53367),
(241, 53310), (242, 53301), (243, 53298), (244, 53295), (275, 53040), (289, 52938), (292, 52905),
(295, 52884), (303, 52791), (305, 52782), (309, 52719), (313, 52683), (314, 52680), (317, 52665),
(326, 52587), (327, 52575), (329, 52554), (337, 52515), (351, 52425), (354, 52407), (355, 52401),
(357, 52386), (361, 52362), (363, 52347), (364, 52344), (365, 52332), (369, 52308), (378, 52260),
(381, 52236),

Gene: DaddyDaniels_62 Start: 54528, Stop: 52669, Start Num: 105

Candidate Starts for DaddyDaniels_62:

(Start: 97 @54552 has 5 MA's), (Start: 105 @54528 has 315 MA's), (Start: 116 @54504 has 6 MA's),
(Start: 118 @54498 has 2 MA's), (123, 54456), (125, 54435), (149, 54321), (151, 54315), (155, 54285),
(167, 54225), (171, 54204), (180, 54150), (183, 54138), (186, 54120), (188, 54108), (207, 54003),
(214, 53946), (218, 53910), (219, 53898), (225, 53871), (229, 53844), (231, 53826), (233, 53808),
(241, 53769), (242, 53760), (243, 53757), (275, 53499), (289, 53397), (292, 53364), (295, 53343),
(303, 53250), (305, 53241), (309, 53178), (313, 53142), (314, 53139), (317, 53124), (326, 53046),
(327, 53034), (329, 53013), (337, 52974), (351, 52884), (354, 52866), (355, 52860), (357, 52845),
(361, 52821), (363, 52806), (364, 52803), (365, 52791), (369, 52767), (378, 52719), (381, 52695),

Gene: Daffy_60 Start: 54033, Stop: 52174, Start Num: 105

Candidate Starts for Daffy_60:

(Start: 97 @54057 has 5 MA's), (Start: 105 @54033 has 315 MA's), (Start: 116 @54009 has 6 MA's),
(Start: 118 @54003 has 2 MA's), (123, 53961), (125, 53940), (149, 53826), (151, 53820), (155, 53790),
(167, 53730), (171, 53709), (180, 53655), (183, 53643), (186, 53625), (188, 53613), (207, 53508),
(214, 53451), (218, 53415), (219, 53403), (225, 53376), (231, 53331), (241, 53274), (242, 53265),
(243, 53262), (289, 52902), (292, 52869), (295, 52848), (303, 52755), (305, 52746), (309, 52683),
(313, 52647), (314, 52644), (317, 52629), (326, 52551), (327, 52539), (329, 52518), (337, 52479),
(351, 52389), (354, 52371), (355, 52365), (357, 52350), (361, 52326), (363, 52311), (364, 52308),
(365, 52296), (369, 52272), (378, 52224), (381, 52200),

Gene: Daisy_57 Start: 53240, Stop: 51423, Start Num: 117

Candidate Starts for Daisy_57:

(75, 53423), (Start: 117 @53240 has 46 MA's), (120, 53210), (159, 53030), (185, 52877), (187, 52865),
(192, 52835), (194, 52829), (207, 52766), (208, 52760), (214, 52709), (217, 52682), (218, 52673),
(226, 52625), (243, 52520), (257, 52424), (265, 52373), (282, 52229), (287, 52190), (290, 52160),
(292, 52133), (294, 52121), (302, 52025), (303, 52019), (305, 52010), (306, 51998), (311, 51926),
(313, 51896), (317, 51878), (318, 51869), (326, 51800), (327, 51788), (329, 51767), (342, 51698),
(345, 51683), (350, 51659), (351, 51638), (355, 51614), (360, 51581), (361, 51575), (364, 51557),
(365, 51545), (367, 51533), (369, 51521), (376, 51479), (381, 51449),

Gene: Daka_63 Start: 54549, Stop: 52690, Start Num: 105

Candidate Starts for Daka_63:

(Start: 97 @54573 has 5 MA's), (Start: 105 @54549 has 315 MA's), (Start: 116 @54525 has 6 MA's),
(Start: 118 @54519 has 2 MA's), (123, 54477), (125, 54456), (149, 54342), (151, 54336), (155, 54306),
(167, 54246), (171, 54225), (180, 54171), (183, 54159), (186, 54141), (188, 54129), (207, 54024),
(214, 53967), (218, 53931), (219, 53919), (225, 53892), (231, 53847), (241, 53790), (242, 53781),
(243, 53778), (244, 53775), (289, 53418), (292, 53385), (295, 53364), (303, 53271), (305, 53262),
(309, 53199), (313, 53163), (314, 53160), (317, 53145), (326, 53067), (327, 53055), (329, 53034),
(337, 52995), (351, 52905), (354, 52887), (355, 52881), (357, 52866), (361, 52842), (363, 52827),
(364, 52824), (365, 52812), (369, 52788), (372, 52767), (378, 52740), (381, 52716), (382, 52701),

Gene: Dati_60 Start: 54564, Stop: 52705, Start Num: 105

Candidate Starts for Dati_60:

(Start: 97 @54588 has 5 MA's), (Start: 105 @54564 has 315 MA's), (Start: 116 @54540 has 6 MA's),
(Start: 118 @54534 has 2 MA's), (123, 54492), (125, 54471), (149, 54357), (151, 54351), (155, 54321),
(167, 54261), (171, 54240), (180, 54186), (183, 54174), (186, 54156), (188, 54144), (207, 54039),
(214, 53982), (218, 53946), (219, 53934), (224, 53910), (226, 53898), (229, 53880), (231, 53862),
(233, 53844), (241, 53805), (242, 53796), (243, 53793), (244, 53790), (289, 53433), (292, 53400),
(295, 53379), (303, 53286), (305, 53277), (309, 53214), (313, 53178), (314, 53175), (317, 53160),
(326, 53082), (327, 53070), (329, 53049), (337, 53010), (351, 52920), (354, 52902), (355, 52896),
(357, 52881), (361, 52857), (363, 52842), (364, 52839), (365, 52827), (369, 52803), (378, 52755),
(381, 52731),

Gene: Deenasa_58 Start: 54545, Stop: 52728, Start Num: 117

Candidate Starts for Deenasa_58:

(75, 54728), (Start: 117 @54545 has 46 MA's), (120, 54515), (159, 54335), (185, 54182), (187, 54170),
(192, 54140), (194, 54134), (207, 54071), (208, 54065), (214, 54014), (217, 53987), (218, 53978),
(226, 53930), (243, 53825), (257, 53729), (265, 53678), (282, 53534), (287, 53495), (290, 53465),
(292, 53438), (294, 53426), (302, 53330), (303, 53324), (305, 53315), (306, 53303), (311, 53231),
(313, 53201), (317, 53183), (318, 53174), (326, 53105), (327, 53093), (329, 53072), (342, 53003),
(345, 52988), (350, 52964), (354, 52925), (355, 52919), (361, 52880), (364, 52862), (365, 52850),
(369, 52826), (381, 52754),

Gene: DelRivs_59 Start: 54011, Stop: 52152, Start Num: 105

Candidate Starts for DelRivs_59:

(Start: 97 @54035 has 5 MA's), (Start: 105 @54011 has 315 MA's), (Start: 116 @53987 has 6 MA's),
(Start: 118 @53981 has 2 MA's), (123, 53939), (125, 53918), (149, 53804), (151, 53798), (155, 53768),
(167, 53708), (171, 53687), (180, 53633), (183, 53621), (186, 53603), (188, 53591), (207, 53486),
(214, 53429), (218, 53393), (219, 53381), (224, 53357), (226, 53345), (229, 53327), (231, 53309),
(233, 53291), (241, 53252), (242, 53243), (243, 53240), (244, 53237), (289, 52880), (292, 52847),
(295, 52826), (303, 52733), (305, 52724), (309, 52661), (313, 52625), (314, 52622), (317, 52607),
(326, 52529), (327, 52517), (329, 52496), (337, 52457), (351, 52367), (354, 52349), (355, 52343),
(357, 52328), (361, 52304), (363, 52289), (364, 52286), (365, 52274), (369, 52250), (378, 52202),
(381, 52178),

Gene: Derpp_60 Start: 54131, Stop: 52272, Start Num: 105

Candidate Starts for Derpp_60:

(Start: 97 @54155 has 5 MA's), (Start: 105 @54131 has 315 MA's), (Start: 116 @54107 has 6 MA's),
(Start: 118 @54101 has 2 MA's), (123, 54059), (125, 54038), (149, 53924), (151, 53918), (155, 53888),
(167, 53828), (171, 53807), (180, 53753), (183, 53741), (186, 53723), (188, 53711), (207, 53606),
(214, 53549), (218, 53513), (219, 53501), (224, 53477), (226, 53465), (229, 53447), (231, 53429),
(233, 53411), (241, 53372), (242, 53363), (243, 53360), (244, 53357), (275, 53102), (289, 53000),
(292, 52967), (295, 52946), (303, 52853), (305, 52844), (309, 52781), (313, 52745), (314, 52742),
(317, 52727), (326, 52649), (327, 52637), (329, 52616), (337, 52577), (351, 52487), (354, 52469),
(355, 52463), (357, 52448), (361, 52424), (363, 52409), (364, 52406), (365, 52394), (369, 52370),
(372, 52349), (378, 52322), (381, 52298), (382, 52283),

Gene: Devonte_57 Start: 53319, Stop: 51502, Start Num: 117

Candidate Starts for Devonte_57:

(75, 53502), (Start: 117 @53319 has 46 MA's), (120, 53289), (159, 53109), (185, 52956), (187, 52944),
(192, 52914), (194, 52908), (207, 52845), (208, 52839), (214, 52788), (217, 52761), (218, 52752),
(226, 52704), (243, 52599), (257, 52503), (265, 52452), (282, 52308), (287, 52269), (290, 52239),
(292, 52212), (294, 52200), (302, 52104), (303, 52098), (305, 52089), (306, 52077), (311, 52005),

(313, 51975), (317, 51957), (318, 51948), (326, 51879), (327, 51867), (329, 51846), (342, 51777),
(345, 51762), (350, 51738), (351, 51717), (354, 51699), (355, 51693), (360, 51660), (361, 51654),
(364, 51636), (365, 51624), (367, 51612), (369, 51600), (376, 51558), (381, 51528),

Gene: Dice_59 Start: 54016, Stop: 52157, Start Num: 105

Candidate Starts for Dice_59:

(Start: 97 @54040 has 5 MA's), (Start: 105 @54016 has 315 MA's), (Start: 116 @53992 has 6 MA's),
(Start: 118 @53986 has 2 MA's), (123, 53944), (125, 53923), (149, 53809), (151, 53803), (155, 53773),
(167, 53713), (171, 53692), (180, 53638), (183, 53626), (186, 53608), (188, 53596), (207, 53491),
(214, 53434), (218, 53398), (219, 53386), (225, 53359), (229, 53332), (231, 53314), (233, 53296),
(241, 53257), (242, 53248), (243, 53245), (289, 52885), (292, 52852), (295, 52831), (303, 52738),
(305, 52729), (309, 52666), (313, 52630), (314, 52627), (317, 52612), (326, 52534), (327, 52522),
(329, 52501), (337, 52462), (351, 52372), (354, 52354), (355, 52348), (357, 52333), (361, 52309),
(363, 52294), (364, 52291), (365, 52279), (369, 52255), (378, 52207), (381, 52183),

Gene: DigitDog_58 Start: 54425, Stop: 52578, Start Num: 97

Candidate Starts for DigitDog_58:

(15, 54914), (16, 54908), (19, 54857), (22, 54839), (42, 54701), (82, 54491), (Start: 97 @54425 has 5
MA's), (Start: 117 @54377 has 46 MA's), (120, 54350), (130, 54299), (158, 54179), (167, 54131), (186,
54029), (193, 53987), (201, 53951), (207, 53921), (218, 53828), (224, 53792), (226, 53780), (229,
53762), (243, 53675), (259, 53570), (271, 53447), (283, 53381), (284, 53363), (290, 53315), (292,
53288), (302, 53180), (303, 53174), (305, 53165), (307, 53144), (311, 53081), (314, 53048), (317,
53033), (323, 52973), (326, 52955), (327, 52943), (329, 52922), (331, 52913), (332, 52910), (334,
52898), (351, 52793), (354, 52775), (355, 52769), (361, 52730), (363, 52715), (364, 52712), (367,
52688), (369, 52676), (370, 52673), (381, 52604),

Gene: Dingo_59 Start: 53575, Stop: 51716, Start Num: 105

Candidate Starts for Dingo_59:

(Start: 97 @53599 has 5 MA's), (Start: 105 @53575 has 315 MA's), (Start: 116 @53551 has 6 MA's),
(Start: 118 @53545 has 2 MA's), (120, 53518), (123, 53503), (125, 53482), (149, 53368), (151, 53362),
(155, 53332), (167, 53272), (171, 53251), (180, 53197), (183, 53185), (186, 53167), (188, 53155),
(207, 53050), (214, 52993), (218, 52957), (219, 52945), (225, 52918), (226, 52909), (231, 52873),
(241, 52816), (242, 52807), (243, 52804), (244, 52801), (289, 52444), (292, 52411), (295, 52390),
(303, 52297), (305, 52288), (309, 52225), (313, 52189), (314, 52186), (317, 52171), (326, 52093),
(327, 52081), (329, 52060), (337, 52021), (351, 51931), (354, 51913), (355, 51907), (357, 51892),
(361, 51868), (363, 51853), (364, 51850), (365, 51838), (369, 51814), (378, 51766), (381, 51742),

Gene: Dione_58 Start: 53747, Stop: 51888, Start Num: 105

Candidate Starts for Dione_58:

(Start: 97 @53771 has 5 MA's), (Start: 105 @53747 has 315 MA's), (Start: 116 @53723 has 6 MA's),
(Start: 118 @53717 has 2 MA's), (123, 53675), (125, 53654), (149, 53540), (151, 53534), (155, 53504),
(167, 53444), (171, 53423), (180, 53369), (183, 53357), (186, 53339), (188, 53327), (207, 53222),
(214, 53165), (218, 53129), (219, 53117), (224, 53093), (226, 53081), (229, 53063), (231, 53045),
(233, 53027), (241, 52988), (242, 52979), (243, 52976), (244, 52973), (289, 52616), (292, 52583),
(295, 52562), (303, 52469), (305, 52460), (309, 52397), (313, 52361), (314, 52358), (317, 52343),
(326, 52265), (327, 52253), (329, 52232), (337, 52193), (351, 52103), (354, 52085), (355, 52079),
(357, 52064), (361, 52040), (363, 52025), (364, 52022), (365, 52010), (369, 51986), (378, 51938),
(381, 51914),

Gene: DirtJuice_61 Start: 54337, Stop: 52478, Start Num: 105

Candidate Starts for DirtJuice_61:

(Start: 97 @54361 has 5 MA's), (Start: 105 @54337 has 315 MA's), (Start: 116 @54313 has 6 MA's),
(Start: 118 @54307 has 2 MA's), (123, 54265), (125, 54244), (149, 54130), (151, 54124), (155, 54094),

(167, 54034), (171, 54013), (180, 53959), (183, 53947), (186, 53929), (188, 53917), (207, 53812), (214, 53755), (218, 53719), (219, 53707), (224, 53683), (226, 53671), (229, 53653), (231, 53635), (233, 53617), (241, 53578), (242, 53569), (243, 53566), (244, 53563), (275, 53308), (289, 53206), (292, 53173), (295, 53152), (303, 53059), (305, 53050), (309, 52987), (314, 52948), (317, 52933), (326, 52855), (327, 52843), (329, 52822), (337, 52783), (351, 52693), (354, 52675), (355, 52669), (357, 52654), (361, 52630), (363, 52615), (364, 52612), (365, 52600), (369, 52576), (378, 52528), (381, 52504),

Gene: Doddsville_61 Start: 54283, Stop: 52424, Start Num: 105

Candidate Starts for Doddsville_61:

(Start: 97 @54307 has 5 MA's), (Start: 105 @54283 has 315 MA's), (Start: 116 @54259 has 6 MA's), (Start: 118 @54253 has 2 MA's), (123, 54211), (125, 54190), (149, 54076), (151, 54070), (155, 54040), (167, 53980), (171, 53959), (180, 53905), (183, 53893), (186, 53875), (188, 53863), (207, 53758), (214, 53701), (218, 53665), (219, 53653), (224, 53629), (226, 53617), (229, 53599), (231, 53581), (233, 53563), (241, 53524), (242, 53515), (243, 53512), (244, 53509), (289, 53152), (292, 53119), (295, 53098), (303, 53005), (305, 52996), (309, 52933), (313, 52897), (314, 52894), (317, 52879), (326, 52801), (327, 52789), (329, 52768), (337, 52729), (351, 52639), (354, 52621), (355, 52615), (357, 52600), (361, 52576), (363, 52561), (364, 52558), (365, 52546), (369, 52522), (378, 52474), (381, 52450),

Gene: DoesntMatter_58 Start: 54040, Stop: 52181, Start Num: 105

Candidate Starts for DoesntMatter_58:

(Start: 97 @54064 has 5 MA's), (Start: 105 @54040 has 315 MA's), (Start: 116 @54016 has 6 MA's), (Start: 118 @54010 has 2 MA's), (123, 53968), (125, 53947), (149, 53833), (151, 53827), (155, 53797), (167, 53737), (171, 53716), (180, 53662), (183, 53650), (186, 53632), (188, 53620), (207, 53515), (214, 53458), (218, 53422), (219, 53410), (225, 53383), (229, 53356), (231, 53338), (233, 53320), (241, 53281), (242, 53272), (243, 53269), (244, 53266), (289, 52909), (292, 52876), (295, 52855), (303, 52762), (305, 52753), (309, 52690), (313, 52654), (314, 52651), (317, 52636), (326, 52558), (327, 52546), (329, 52525), (337, 52486), (351, 52396), (354, 52378), (355, 52372), (357, 52357), (361, 52333), (363, 52318), (364, 52315), (365, 52303), (369, 52279), (378, 52231), (381, 52207),

Gene: DolOn_66 Start: 55495, Stop: 53636, Start Num: 105

Candidate Starts for DolOn_66:

(Start: 97 @55519 has 5 MA's), (Start: 105 @55495 has 315 MA's), (Start: 116 @55471 has 6 MA's), (Start: 118 @55465 has 2 MA's), (123, 55423), (125, 55402), (149, 55288), (151, 55282), (155, 55252), (167, 55192), (171, 55171), (180, 55117), (183, 55105), (186, 55087), (188, 55075), (207, 54970), (214, 54913), (218, 54877), (219, 54865), (225, 54838), (229, 54811), (231, 54793), (233, 54775), (241, 54736), (242, 54727), (243, 54724), (275, 54466), (289, 54364), (292, 54331), (295, 54310), (303, 54217), (305, 54208), (309, 54145), (313, 54109), (314, 54106), (317, 54091), (326, 54013), (327, 54001), (329, 53980), (337, 53941), (351, 53851), (354, 53833), (355, 53827), (357, 53812), (361, 53788), (363, 53773), (364, 53770), (365, 53758), (369, 53734), (378, 53686), (381, 53662),

Gene: DonSanchon_58 Start: 53730, Stop: 51871, Start Num: 105

Candidate Starts for DonSanchon_58:

(Start: 97 @53754 has 5 MA's), (Start: 105 @53730 has 315 MA's), (Start: 116 @53706 has 6 MA's), (Start: 118 @53700 has 2 MA's), (123, 53658), (125, 53637), (149, 53523), (151, 53517), (155, 53487), (167, 53427), (171, 53406), (180, 53352), (183, 53340), (186, 53322), (188, 53310), (207, 53205), (214, 53148), (218, 53112), (219, 53100), (225, 53073), (231, 53028), (241, 52971), (242, 52962), (243, 52959), (289, 52599), (292, 52566), (295, 52545), (303, 52452), (305, 52443), (309, 52380), (313, 52344), (314, 52341), (317, 52326), (326, 52248), (327, 52236), (329, 52215), (337, 52176), (351, 52086), (354, 52068), (355, 52062), (357, 52047), (361, 52023), (363, 52008), (364, 52005), (365, 51993), (369, 51969), (378, 51921), (381, 51897),

Gene: Donny_59 Start: 54516, Stop: 52690, Start Num: 99

Candidate Starts for Donny_59:

(Start: 99 @54516 has 12 MA's), (120, 54462), (135, 54402), (158, 54291), (167, 54243), (186, 54141), (191, 54111), (193, 54099), (201, 54063), (207, 54033), (218, 53940), (219, 53928), (224, 53904), (226, 53892), (229, 53874), (238, 53811), (243, 53787), (244, 53784), (259, 53682), (283, 53493), (284, 53475), (287, 53457), (290, 53427), (292, 53400), (302, 53292), (303, 53286), (305, 53277), (307, 53256), (311, 53193), (314, 53160), (317, 53145), (323, 53085), (326, 53067), (327, 53055), (329, 53034), (331, 53025), (332, 53022), (351, 52905), (355, 52881), (361, 52842), (363, 52827), (364, 52824), (367, 52800), (369, 52788), (370, 52785), (372, 52767), (379, 52737), (381, 52716), (383, 52695),

Gene: DuchessDung_62 Start: 53800, Stop: 51941, Start Num: 105

Candidate Starts for DuchessDung_62:

(Start: 97 @53824 has 5 MA's), (Start: 105 @53800 has 315 MA's), (Start: 116 @53776 has 6 MA's), (Start: 118 @53770 has 2 MA's), (123, 53728), (125, 53707), (149, 53593), (151, 53587), (155, 53557), (167, 53497), (171, 53476), (180, 53422), (183, 53410), (186, 53392), (188, 53380), (207, 53275), (214, 53218), (218, 53182), (219, 53170), (225, 53143), (231, 53098), (241, 53041), (242, 53032), (243, 53029), (289, 52669), (292, 52636), (295, 52615), (303, 52522), (305, 52513), (309, 52450), (313, 52414), (314, 52411), (317, 52396), (326, 52318), (327, 52306), (329, 52285), (337, 52246), (351, 52156), (354, 52138), (355, 52132), (357, 52117), (361, 52093), (363, 52078), (364, 52075), (365, 52063), (369, 52039), (378, 51991), (381, 51967),

Gene: Duggie_61 Start: 54284, Stop: 52425, Start Num: 105

Candidate Starts for Duggie_61:

(Start: 97 @54308 has 5 MA's), (Start: 105 @54284 has 315 MA's), (Start: 116 @54260 has 6 MA's), (Start: 118 @54254 has 2 MA's), (123, 54212), (125, 54191), (149, 54077), (151, 54071), (155, 54041), (167, 53981), (171, 53960), (180, 53906), (183, 53894), (186, 53876), (188, 53864), (207, 53759), (214, 53702), (218, 53666), (219, 53654), (224, 53630), (226, 53618), (229, 53600), (231, 53582), (233, 53564), (241, 53525), (242, 53516), (243, 53513), (244, 53510), (289, 53153), (292, 53120), (295, 53099), (303, 53006), (305, 52997), (309, 52934), (313, 52898), (314, 52895), (317, 52880), (326, 52802), (327, 52790), (329, 52769), (337, 52730), (351, 52640), (354, 52622), (355, 52616), (357, 52601), (361, 52577), (363, 52562), (364, 52559), (365, 52547), (369, 52523), (372, 52502), (378, 52475), (381, 52451), (382, 52436),

Gene: Durga_63 Start: 54780, Stop: 52921, Start Num: 105

Candidate Starts for Durga_63:

(Start: 97 @54804 has 5 MA's), (Start: 105 @54780 has 315 MA's), (Start: 116 @54756 has 6 MA's), (Start: 118 @54750 has 2 MA's), (123, 54708), (125, 54687), (149, 54573), (151, 54567), (155, 54537), (167, 54477), (171, 54456), (180, 54402), (183, 54390), (186, 54372), (188, 54360), (207, 54255), (214, 54198), (218, 54162), (219, 54150), (224, 54126), (226, 54114), (229, 54096), (231, 54078), (233, 54060), (241, 54021), (242, 54012), (243, 54009), (244, 54006), (275, 53751), (289, 53649), (292, 53616), (295, 53595), (303, 53502), (305, 53493), (309, 53430), (313, 53394), (314, 53391), (317, 53376), (326, 53298), (327, 53286), (329, 53265), (337, 53226), (351, 53136), (354, 53118), (355, 53112), (357, 53097), (361, 53073), (363, 53058), (364, 53055), (365, 53043), (369, 53019), (372, 52998), (378, 52971), (381, 52947),

Gene: Eaglehorse_57 Start: 52538, Stop: 50709, Start Num: 105

Candidate Starts for Eaglehorse_57:

(Start: 105 @52538 has 315 MA's), (Start: 118 @52511 has 2 MA's), (121, 52481), (123, 52469), (127, 52442), (128, 52439), (132, 52430), (141, 52412), (157, 52316), (167, 52265), (172, 52241), (199, 52079), (205, 52055), (207, 52043), (214, 51986), (218, 51950), (219, 51938), (224, 51914), (235, 51830), (242, 51800), (243, 51797), (248, 51767), (268, 51623), (274, 51557), (280, 51518), (282, 51506), (284, 51485), (287, 51467), (292, 51410), (301, 51326), (303, 51296), (305, 51287), (309,

51221), (312, 51194), (313, 51185), (317, 51167), (320, 51143), (326, 51089), (327, 51077), (329, 51056), (342, 50987), (351, 50927), (354, 50909), (358, 50876), (361, 50864), (363, 50849), (364, 50846), (365, 50834), (369, 50810), (370, 50807), (378, 50759), (379, 50756), (381, 50735), (383, 50714),

Gene: EastView9101_57 Start: 54337, Stop: 52511, Start Num: 99

Candidate Starts for EastView9101_57:

(72, 54496), (82, 54415), (Start: 99 @54337 has 12 MA's), (120, 54283), (135, 54223), (158, 54112), (167, 54064), (186, 53962), (193, 53920), (201, 53884), (207, 53854), (218, 53761), (219, 53749), (224, 53725), (226, 53713), (229, 53695), (238, 53632), (243, 53608), (259, 53503), (283, 53314), (284, 53296), (290, 53248), (292, 53221), (302, 53113), (303, 53107), (305, 53098), (307, 53077), (311, 53014), (314, 52981), (317, 52966), (323, 52906), (326, 52888), (327, 52876), (329, 52855), (331, 52846), (332, 52843), (351, 52726), (355, 52702), (361, 52663), (363, 52648), (364, 52645), (367, 52621), (369, 52609), (370, 52606), (379, 52558), (381, 52537), (383, 52516),

Gene: ElvisPhasley_62 Start: 54776, Stop: 52917, Start Num: 105

Candidate Starts for ElvisPhasley_62:

(Start: 97 @54800 has 5 MA's), (Start: 105 @54776 has 315 MA's), (Start: 116 @54752 has 6 MA's), (Start: 118 @54746 has 2 MA's), (123, 54704), (125, 54683), (149, 54569), (151, 54563), (155, 54533), (167, 54473), (171, 54452), (180, 54398), (183, 54386), (186, 54368), (188, 54356), (207, 54251), (214, 54194), (218, 54158), (219, 54146), (224, 54122), (226, 54110), (229, 54092), (231, 54074), (233, 54056), (241, 54017), (242, 54008), (243, 54005), (244, 54002), (289, 53645), (292, 53612), (295, 53591), (303, 53498), (305, 53489), (309, 53426), (313, 53390), (314, 53387), (317, 53372), (326, 53294), (327, 53282), (329, 53261), (337, 53222), (351, 53132), (354, 53114), (355, 53108), (357, 53093), (361, 53069), (363, 53054), (364, 53051), (365, 53039), (369, 53015), (378, 52967), (381, 52943),

Gene: EmiRose_34 Start: 30392, Stop: 28503, Start Num: 102

Candidate Starts for EmiRose_34:

(Start: 102 @30392 has 1 MA's), (125, 30284), (126, 30281), (127, 30278), (142, 30221), (158, 30110), (178, 30005), (184, 29975), (189, 29948), (190, 29939), (204, 29870), (207, 29849), (214, 29792), (218, 29756), (219, 29744), (224, 29720), (228, 29693), (231, 29669), (243, 29612), (262, 29477), (268, 29435), (269, 29417), (272, 29378), (281, 29324), (288, 29264), (292, 29219), (293, 29213), (297, 29162), (309, 29027), (314, 28988), (315, 28985), (317, 28973), (326, 28895), (327, 28883), (338, 28820), (351, 28718), (361, 28655), (367, 28613), (369, 28601), (375, 28571), (379, 28550), (383, 28508),

Gene: Emiris_63 Start: 54747, Stop: 52888, Start Num: 105

Candidate Starts for Emiris_63:

(Start: 97 @54771 has 5 MA's), (Start: 105 @54747 has 315 MA's), (Start: 116 @54723 has 6 MA's), (Start: 118 @54717 has 2 MA's), (123, 54675), (125, 54654), (149, 54540), (151, 54534), (155, 54504), (167, 54444), (171, 54423), (180, 54369), (183, 54357), (186, 54339), (188, 54327), (207, 54222), (214, 54165), (218, 54129), (219, 54117), (225, 54090), (229, 54063), (231, 54045), (233, 54027), (241, 53988), (242, 53979), (243, 53976), (275, 53718), (289, 53616), (292, 53583), (295, 53562), (303, 53469), (305, 53460), (309, 53397), (313, 53361), (314, 53358), (317, 53343), (326, 53265), (327, 53253), (329, 53232), (337, 53193), (351, 53103), (354, 53085), (355, 53079), (357, 53064), (361, 53040), (363, 53025), (364, 53022), (365, 53010), (369, 52986), (378, 52938), (381, 52914),

Gene: EmpTee_60 Start: 54256, Stop: 52397, Start Num: 105

Candidate Starts for EmpTee_60:

(Start: 97 @54280 has 5 MA's), (Start: 105 @54256 has 315 MA's), (Start: 116 @54232 has 6 MA's), (Start: 118 @54226 has 2 MA's), (123, 54184), (125, 54163), (149, 54049), (151, 54043), (155, 54013), (167, 53953), (171, 53932), (180, 53878), (183, 53866), (186, 53848), (188, 53836), (207, 53731),

(214, 53674), (218, 53638), (219, 53626), (224, 53602), (226, 53590), (229, 53572), (231, 53554), (233, 53536), (241, 53497), (242, 53488), (243, 53485), (244, 53482), (289, 53125), (292, 53092), (295, 53071), (303, 52978), (305, 52969), (309, 52906), (313, 52870), (314, 52867), (317, 52852), (326, 52774), (327, 52762), (329, 52741), (337, 52702), (351, 52612), (354, 52594), (355, 52588), (357, 52573), (361, 52549), (363, 52534), (364, 52531), (365, 52519), (369, 52495), (378, 52447), (381, 52423),

Gene: Epah_52 Start: 52983, Stop: 51160, Start Num: 101

Candidate Starts for Epah_52:

(Start: 97 @53001 has 5 MA's), (Start: 101 @52983 has 17 MA's), (Start: 118 @52959 has 2 MA's), (120, 52932), (123, 52917), (125, 52896), (146, 52809), (166, 52704), (173, 52662), (186, 52596), (191, 52566), (192, 52557), (193, 52554), (194, 52551), (199, 52524), (214, 52431), (216, 52413), (218, 52395), (219, 52383), (223, 52368), (225, 52356), (242, 52245), (243, 52242), (248, 52212), (252, 52176), (282, 51951), (283, 51948), (287, 51912), (289, 51888), (292, 51855), (302, 51747), (303, 51741), (304, 51735), (305, 51732), (313, 51633), (314, 51630), (317, 51615), (326, 51537), (327, 51525), (329, 51504), (331, 51495), (337, 51465), (341, 51441), (348, 51408), (351, 51375), (354, 51357), (355, 51351), (361, 51312), (364, 51294), (365, 51282), (369, 51258), (376, 51216), (378, 51210), (381, 51186),

Gene: Eremos_60 Start: 54246, Stop: 52387, Start Num: 105

Candidate Starts for Eremos_60:

(Start: 97 @54270 has 5 MA's), (Start: 105 @54246 has 315 MA's), (Start: 116 @54222 has 6 MA's), (Start: 118 @54216 has 2 MA's), (123, 54174), (125, 54153), (149, 54039), (151, 54033), (155, 54003), (167, 53943), (171, 53922), (180, 53868), (183, 53856), (186, 53838), (188, 53826), (207, 53721), (214, 53664), (218, 53628), (219, 53616), (224, 53592), (226, 53580), (229, 53562), (231, 53544), (233, 53526), (241, 53487), (242, 53478), (243, 53475), (244, 53472), (289, 53115), (292, 53082), (295, 53061), (303, 52968), (305, 52959), (309, 52896), (313, 52860), (314, 52857), (317, 52842), (326, 52764), (327, 52752), (329, 52731), (337, 52692), (351, 52602), (354, 52584), (355, 52578), (357, 52563), (361, 52539), (363, 52524), (364, 52521), (365, 52509), (369, 52485), (378, 52437), (381, 52413),

Gene: Etaye_62 Start: 55077, Stop: 53218, Start Num: 105

Candidate Starts for Etaye_62:

(Start: 97 @55101 has 5 MA's), (Start: 105 @55077 has 315 MA's), (Start: 116 @55053 has 6 MA's), (Start: 118 @55047 has 2 MA's), (123, 55005), (125, 54984), (149, 54870), (151, 54864), (155, 54834), (167, 54774), (171, 54753), (180, 54699), (183, 54687), (186, 54669), (188, 54657), (207, 54552), (214, 54495), (218, 54459), (219, 54447), (224, 54423), (226, 54411), (229, 54393), (231, 54375), (233, 54357), (241, 54318), (242, 54309), (243, 54306), (244, 54303), (289, 53946), (292, 53913), (295, 53892), (303, 53799), (305, 53790), (309, 53727), (313, 53691), (314, 53688), (317, 53673), (326, 53595), (327, 53583), (329, 53562), (337, 53523), (351, 53433), (354, 53415), (355, 53409), (357, 53394), (361, 53370), (363, 53355), (364, 53352), (365, 53340), (369, 53316), (378, 53268), (381, 53244),

Gene: Eugenia_60 Start: 54399, Stop: 52540, Start Num: 105

Candidate Starts for Eugenia_60:

(Start: 97 @54423 has 5 MA's), (Start: 105 @54399 has 315 MA's), (Start: 116 @54375 has 6 MA's), (Start: 118 @54369 has 2 MA's), (123, 54327), (125, 54306), (149, 54192), (151, 54186), (155, 54156), (167, 54096), (171, 54075), (180, 54021), (183, 54009), (186, 53991), (188, 53979), (207, 53874), (214, 53817), (218, 53781), (219, 53769), (225, 53742), (229, 53715), (231, 53697), (233, 53679), (241, 53640), (242, 53631), (243, 53628), (289, 53268), (292, 53235), (295, 53214), (303, 53121), (305, 53112), (309, 53049), (313, 53013), (314, 53010), (317, 52995), (326, 52917), (327, 52905), (329, 52884), (337, 52845), (351, 52755), (354, 52737), (355, 52731), (357, 52716), (361, 52692), (363, 52677), (364, 52674), (365, 52662), (369, 52638), (378, 52590), (381, 52566),

Gene: Evaa_50 Start: 46072, Stop: 44267, Start Num: 115

Candidate Starts for Evaa_50:

(Start: 104 @46111 has 1 MA's), (Start: 115 @46072 has 14 MA's), (120, 46036), (139, 45955), (141, 45949), (149, 45895), (157, 45853), (194, 45658), (198, 45631), (207, 45592), (214, 45535), (218, 45499), (224, 45463), (243, 45346), (282, 45055), (287, 45016), (289, 44992), (290, 44986), (292, 44959), (294, 44947), (302, 44854), (303, 44848), (305, 44839), (309, 44776), (313, 44740), (317, 44722), (326, 44644), (327, 44632), (329, 44611), (337, 44572), (345, 44527), (350, 44503), (355, 44458), (361, 44419), (363, 44404), (369, 44365), (381, 44293),

Gene: Fanaw_52 Start: 53739, Stop: 51916, Start Num: 101

Candidate Starts for Fanaw_52:

(Start: 97 @53757 has 5 MA's), (Start: 101 @53739 has 17 MA's), (Start: 118 @53715 has 2 MA's), (123, 53673), (125, 53652), (146, 53565), (166, 53460), (171, 53433), (173, 53418), (186, 53352), (191, 53322), (192, 53313), (193, 53310), (194, 53307), (214, 53187), (216, 53169), (218, 53151), (219, 53139), (225, 53112), (233, 53049), (241, 53010), (242, 53001), (243, 52998), (248, 52968), (252, 52932), (282, 52707), (283, 52704), (287, 52668), (289, 52644), (292, 52611), (302, 52503), (303, 52497), (305, 52488), (313, 52389), (314, 52386), (317, 52371), (320, 52347), (326, 52293), (327, 52281), (329, 52260), (331, 52251), (337, 52221), (342, 52191), (348, 52164), (351, 52131), (355, 52107), (361, 52068), (364, 52050), (365, 52038), (369, 52014), (376, 51972), (378, 51966), (381, 51942),

Gene: Fang_62 Start: 54292, Stop: 52433, Start Num: 105

Candidate Starts for Fang_62:

(Start: 97 @54316 has 5 MA's), (Start: 105 @54292 has 315 MA's), (Start: 116 @54268 has 6 MA's), (Start: 118 @54262 has 2 MA's), (123, 54220), (125, 54199), (149, 54085), (151, 54079), (155, 54049), (167, 53989), (171, 53968), (180, 53914), (183, 53902), (186, 53884), (188, 53872), (207, 53767), (214, 53710), (218, 53674), (219, 53662), (225, 53635), (229, 53608), (231, 53590), (233, 53572), (241, 53533), (242, 53524), (243, 53521), (275, 53263), (289, 53161), (292, 53128), (295, 53107), (303, 53014), (305, 53005), (309, 52942), (313, 52906), (314, 52903), (317, 52888), (326, 52810), (327, 52798), (329, 52777), (337, 52738), (351, 52648), (354, 52630), (355, 52624), (357, 52609), (361, 52585), (363, 52570), (364, 52567), (365, 52555), (369, 52531), (378, 52483), (381, 52459),

Gene: Faze9_56 Start: 52623, Stop: 50794, Start Num: 105

Candidate Starts for Faze9_56:

(Start: 105 @52623 has 315 MA's), (Start: 118 @52596 has 2 MA's), (121, 52566), (123, 52554), (127, 52527), (128, 52524), (132, 52515), (141, 52497), (157, 52401), (167, 52350), (172, 52326), (175, 52302), (199, 52164), (204, 52149), (205, 52140), (207, 52128), (214, 52071), (218, 52035), (219, 52023), (224, 51999), (235, 51915), (242, 51885), (243, 51882), (248, 51852), (268, 51708), (274, 51642), (282, 51591), (284, 51570), (287, 51552), (292, 51495), (297, 51438), (301, 51411), (303, 51381), (305, 51372), (309, 51306), (312, 51279), (313, 51270), (317, 51252), (320, 51228), (326, 51174), (327, 51162), (329, 51141), (342, 51072), (351, 51012), (354, 50994), (358, 50961), (361, 50949), (363, 50934), (364, 50931), (365, 50919), (369, 50895), (370, 50892), (378, 50844), (379, 50841), (381, 50820), (383, 50799),

Gene: FelixTres_53 Start: 47631, Stop: 45814, Start Num: 115

Candidate Starts for FelixTres_53:

(Start: 115 @47631 has 14 MA's), (Start: 118 @47622 has 2 MA's), (120, 47595), (122, 47583), (125, 47559), (128, 47550), (149, 47454), (157, 47412), (164, 47376), (178, 47301), (191, 47226), (207, 47148), (214, 47091), (218, 47055), (219, 47043), (223, 47028), (224, 47019), (238, 46926), (243, 46902), (246, 46884), (282, 46611), (287, 46572), (290, 46542), (292, 46515), (302, 46407), (303, 46401), (305, 46392), (312, 46302), (313, 46293), (314, 46290), (317, 46275), (326, 46197), (327, 46185), (328, 46179), (329, 46164), (339, 46116), (348, 46068), (351, 46035), (355, 46011), (361,

45972), (363, 45957), (369, 45912), (381, 45840),

Gene: Flake_64 Start: 54288, Stop: 52429, Start Num: 105

Candidate Starts for Flake_64:

(Start: 97 @54312 has 5 MA's), (Start: 105 @54288 has 315 MA's), (Start: 116 @54264 has 6 MA's),
(Start: 118 @54258 has 2 MA's), (123, 54216), (125, 54195), (149, 54081), (151, 54075), (155, 54045),
(167, 53985), (171, 53964), (180, 53910), (183, 53898), (186, 53880), (188, 53868), (207, 53763),
(214, 53706), (218, 53670), (219, 53658), (225, 53631), (231, 53586), (241, 53529), (242, 53520),
(243, 53517), (289, 53157), (292, 53124), (295, 53103), (303, 53010), (305, 53001), (309, 52938),
(313, 52902), (314, 52899), (317, 52884), (326, 52806), (327, 52794), (329, 52773), (337, 52734),
(351, 52644), (354, 52626), (355, 52620), (357, 52605), (361, 52581), (363, 52566), (364, 52563),
(365, 52551), (369, 52527), (378, 52479), (381, 52455),

Gene: FleetyMac_63 Start: 54230, Stop: 52371, Start Num: 105

Candidate Starts for FleetyMac_63:

(Start: 97 @54254 has 5 MA's), (Start: 105 @54230 has 315 MA's), (Start: 116 @54206 has 6 MA's),
(Start: 118 @54200 has 2 MA's), (123, 54158), (125, 54137), (149, 54023), (151, 54017), (155, 53987),
(167, 53927), (171, 53906), (180, 53852), (183, 53840), (186, 53822), (188, 53810), (207, 53705),
(214, 53648), (218, 53612), (219, 53600), (224, 53576), (226, 53564), (229, 53546), (231, 53528),
(233, 53510), (241, 53471), (242, 53462), (243, 53459), (244, 53456), (289, 53099), (292, 53066),
(295, 53045), (303, 52952), (305, 52943), (309, 52880), (313, 52844), (314, 52841), (317, 52826),
(326, 52748), (327, 52736), (329, 52715), (337, 52676), (351, 52586), (354, 52568), (355, 52562),
(357, 52547), (361, 52523), (363, 52508), (364, 52505), (365, 52493), (369, 52469), (378, 52421),
(381, 52397),

Gene: FluffyNinja_62 Start: 54312, Stop: 52453, Start Num: 105

Candidate Starts for FluffyNinja_62:

(Start: 97 @54336 has 5 MA's), (Start: 105 @54312 has 315 MA's), (Start: 116 @54288 has 6 MA's),
(Start: 118 @54282 has 2 MA's), (123, 54240), (125, 54219), (149, 54105), (151, 54099), (155, 54069),
(167, 54009), (171, 53988), (180, 53934), (183, 53922), (186, 53904), (188, 53892), (207, 53787),
(214, 53730), (218, 53694), (219, 53682), (224, 53658), (226, 53646), (229, 53628), (231, 53610),
(233, 53592), (241, 53553), (242, 53544), (243, 53541), (244, 53538), (289, 53181), (292, 53148),
(295, 53127), (303, 53034), (305, 53025), (309, 52962), (313, 52926), (314, 52923), (317, 52908),
(326, 52830), (327, 52818), (329, 52797), (337, 52758), (351, 52668), (354, 52650), (355, 52644),
(357, 52629), (361, 52605), (363, 52590), (364, 52587), (365, 52575), (369, 52551), (378, 52503),
(381, 52479),

Gene: ForDig_52 Start: 52484, Stop: 50643, Start Num: 103

Candidate Starts for ForDig_52:

(Start: 103 @52484 has 5 MA's), (120, 52427), (123, 52412), (139, 52346), (157, 52238), (167, 52187),
(168, 52184), (172, 52163), (180, 52112), (181, 52106), (185, 52088), (192, 52046), (193, 52043),
(199, 52013), (214, 51920), (218, 51884), (219, 51872), (229, 51818), (237, 51758), (242, 51734),
(243, 51731), (252, 51665), (283, 51431), (284, 51413), (287, 51395), (292, 51338), (302, 51230),
(303, 51224), (305, 51215), (309, 51152), (313, 51116), (314, 51113), (317, 51098), (326, 51020),
(327, 51008), (329, 50987), (330, 50981), (337, 50948), (342, 50918), (345, 50903), (349, 50882),
(351, 50858), (355, 50834), (361, 50795), (362, 50783), (363, 50780), (364, 50777), (365, 50765),
(369, 50741), (381, 50669), (383, 50648),

Gene: Fortunato_54 Start: 54011, Stop: 52170, Start Num: 97

Candidate Starts for Fortunato_54:

(Start: 97 @54011 has 5 MA's), (Start: 101 @53993 has 17 MA's), (Start: 118 @53969 has 2 MA's),
(120, 53942), (123, 53927), (125, 53906), (146, 53819), (166, 53714), (171, 53687), (173, 53672),
(186, 53606), (191, 53576), (192, 53567), (193, 53564), (194, 53561), (214, 53441), (216, 53423),

(218, 53405), (219, 53393), (225, 53366), (233, 53303), (241, 53264), (242, 53255), (243, 53252), (248, 53222), (252, 53186), (282, 52961), (283, 52958), (287, 52922), (292, 52865), (302, 52757), (303, 52751), (305, 52742), (313, 52643), (314, 52640), (317, 52625), (326, 52547), (327, 52535), (329, 52514), (331, 52505), (337, 52475), (342, 52445), (348, 52418), (351, 52385), (355, 52361), (361, 52322), (364, 52304), (365, 52292), (369, 52268), (376, 52226), (378, 52220), (381, 52196),

Gene: Fozzie_61 Start: 54537, Stop: 52678, Start Num: 105

Candidate Starts for Fozzie_61:

(Start: 97 @54561 has 5 MA's), (Start: 105 @54537 has 315 MA's), (Start: 116 @54513 has 6 MA's), (Start: 118 @54507 has 2 MA's), (123, 54465), (125, 54444), (149, 54330), (151, 54324), (155, 54294), (167, 54234), (171, 54213), (180, 54159), (183, 54147), (186, 54129), (188, 54117), (207, 54012), (214, 53955), (218, 53919), (219, 53907), (224, 53883), (226, 53871), (229, 53853), (231, 53835), (233, 53817), (241, 53778), (242, 53769), (243, 53766), (244, 53763), (289, 53406), (292, 53373), (295, 53352), (303, 53259), (305, 53250), (309, 53187), (313, 53151), (314, 53148), (317, 53133), (326, 53055), (327, 53043), (329, 53022), (337, 52983), (351, 52893), (354, 52875), (355, 52869), (357, 52854), (361, 52830), (363, 52815), (364, 52812), (365, 52800), (369, 52776), (378, 52728), (381, 52704),

Gene: Frankicide_59 Start: 54077, Stop: 52218, Start Num: 105

Candidate Starts for Frankicide_59:

(Start: 97 @54101 has 5 MA's), (Start: 105 @54077 has 315 MA's), (Start: 116 @54053 has 6 MA's), (Start: 118 @54047 has 2 MA's), (123, 54005), (125, 53984), (149, 53870), (151, 53864), (155, 53834), (167, 53774), (171, 53753), (180, 53699), (183, 53687), (186, 53669), (188, 53657), (207, 53552), (214, 53495), (218, 53459), (219, 53447), (225, 53420), (226, 53411), (231, 53375), (241, 53318), (242, 53309), (243, 53306), (244, 53303), (289, 52946), (292, 52913), (295, 52892), (303, 52799), (305, 52790), (309, 52727), (313, 52691), (314, 52688), (317, 52673), (326, 52595), (327, 52583), (329, 52562), (337, 52523), (351, 52433), (354, 52415), (355, 52409), (357, 52394), (361, 52370), (363, 52355), (364, 52352), (365, 52340), (369, 52316), (378, 52268), (381, 52244),

Gene: Frederick_54 Start: 53929, Stop: 52085, Start Num: 97

Candidate Starts for Frederick_54:

(Start: 97 @53929 has 5 MA's), (Start: 101 @53911 has 17 MA's), (Start: 118 @53884 has 2 MA's), (120, 53857), (123, 53842), (125, 53821), (146, 53734), (166, 53629), (171, 53602), (173, 53587), (186, 53521), (191, 53491), (192, 53482), (193, 53479), (194, 53476), (199, 53449), (207, 53413), (214, 53356), (216, 53338), (218, 53320), (219, 53308), (225, 53281), (233, 53218), (241, 53179), (242, 53170), (243, 53167), (248, 53137), (252, 53101), (282, 52876), (283, 52873), (287, 52837), (292, 52780), (302, 52672), (303, 52666), (305, 52657), (313, 52558), (314, 52555), (317, 52540), (326, 52462), (327, 52450), (329, 52429), (331, 52420), (337, 52390), (342, 52360), (348, 52333), (351, 52300), (355, 52276), (361, 52237), (364, 52219), (365, 52207), (369, 52183), (376, 52141), (378, 52135), (381, 52111),

Gene: FremontTroll_61 Start: 54644, Stop: 52785, Start Num: 105

Candidate Starts for FremontTroll_61:

(Start: 97 @54668 has 5 MA's), (Start: 105 @54644 has 315 MA's), (Start: 116 @54620 has 6 MA's), (Start: 118 @54614 has 2 MA's), (123, 54572), (125, 54551), (149, 54437), (151, 54431), (155, 54401), (167, 54341), (171, 54320), (180, 54266), (183, 54254), (186, 54236), (188, 54224), (207, 54119), (214, 54062), (218, 54026), (219, 54014), (225, 53987), (229, 53960), (231, 53942), (233, 53924), (241, 53885), (242, 53876), (243, 53873), (275, 53615), (289, 53513), (292, 53480), (295, 53459), (303, 53366), (305, 53357), (309, 53294), (313, 53258), (314, 53255), (317, 53240), (326, 53162), (327, 53150), (329, 53129), (337, 53090), (351, 53000), (354, 52982), (355, 52976), (357, 52961), (361, 52937), (363, 52922), (364, 52919), (365, 52907), (369, 52883), (378, 52835), (381, 52811),

Gene: FrenchFry_57 Start: 52599, Stop: 50770, Start Num: 105

Candidate Starts for FrenchFry_57:

(Start: 105 @52599 has 315 MA's), (Start: 118 @52572 has 2 MA's), (121, 52542), (123, 52530), (127, 52503), (128, 52500), (132, 52491), (141, 52473), (157, 52377), (167, 52326), (172, 52302), (175, 52278), (199, 52140), (205, 52116), (207, 52104), (214, 52047), (218, 52011), (219, 51999), (224, 51975), (235, 51891), (242, 51861), (243, 51858), (248, 51828), (268, 51684), (274, 51618), (280, 51579), (282, 51567), (284, 51546), (287, 51528), (292, 51471), (301, 51387), (303, 51357), (305, 51348), (309, 51282), (312, 51255), (313, 51246), (317, 51228), (320, 51204), (326, 51150), (327, 51138), (329, 51117), (342, 51048), (351, 50988), (354, 50970), (358, 50937), (361, 50925), (363, 50910), (364, 50907), (365, 50895), (369, 50871), (370, 50868), (378, 50820), (379, 50817), (381, 50796), (383, 50775),

Gene: Fresco_51 Start: 45981, Stop: 44164, Start Num: 115

Candidate Starts for Fresco_51:

(44, 46302), (51, 46278), (Start: 115 @45981 has 14 MA's), (120, 45945), (123, 45930), (128, 45900), (154, 45774), (178, 45651), (180, 45636), (188, 45594), (207, 45498), (218, 45405), (238, 45276), (243, 45252), (284, 44940), (287, 44922), (292, 44865), (303, 44751), (305, 44742), (309, 44679), (314, 44640), (317, 44625), (326, 44547), (327, 44535), (329, 44514), (331, 44505), (348, 44418), (352, 44382), (353, 44370), (359, 44331), (361, 44322), (363, 44307), (369, 44262), (378, 44214), (381, 44190),

Gene: Freya_58 Start: 53738, Stop: 51879, Start Num: 105

Candidate Starts for Freya_58:

(Start: 97 @53762 has 5 MA's), (Start: 105 @53738 has 315 MA's), (Start: 116 @53714 has 6 MA's), (Start: 118 @53708 has 2 MA's), (123, 53666), (125, 53645), (149, 53531), (151, 53525), (155, 53495), (167, 53435), (171, 53414), (180, 53360), (183, 53348), (186, 53330), (188, 53318), (207, 53213), (214, 53156), (218, 53120), (219, 53108), (225, 53081), (229, 53054), (231, 53036), (233, 53018), (241, 52979), (242, 52970), (243, 52967), (275, 52709), (289, 52607), (292, 52574), (295, 52553), (303, 52460), (305, 52451), (309, 52388), (313, 52352), (314, 52349), (317, 52334), (326, 52256), (327, 52244), (329, 52223), (337, 52184), (351, 52094), (354, 52076), (355, 52070), (357, 52055), (361, 52031), (363, 52016), (364, 52013), (365, 52001), (369, 51977), (378, 51929), (381, 51905),

Gene: FriarPreacher_60 Start: 54124, Stop: 52265, Start Num: 105

Candidate Starts for FriarPreacher_60:

(Start: 97 @54148 has 5 MA's), (Start: 105 @54124 has 315 MA's), (Start: 116 @54100 has 6 MA's), (Start: 118 @54094 has 2 MA's), (123, 54052), (125, 54031), (149, 53917), (151, 53911), (155, 53881), (167, 53821), (171, 53800), (180, 53746), (183, 53734), (186, 53716), (188, 53704), (207, 53599), (214, 53542), (218, 53506), (219, 53494), (224, 53470), (226, 53458), (229, 53440), (231, 53422), (233, 53404), (241, 53365), (242, 53356), (243, 53353), (244, 53350), (289, 52993), (292, 52960), (295, 52939), (303, 52846), (305, 52837), (309, 52774), (313, 52738), (314, 52735), (317, 52720), (326, 52642), (327, 52630), (329, 52609), (337, 52570), (351, 52480), (354, 52462), (355, 52456), (357, 52441), (361, 52417), (363, 52402), (364, 52399), (365, 52387), (369, 52363), (378, 52315), (381, 52291),

Gene: Fringe_64 Start: 54914, Stop: 53055, Start Num: 105

Candidate Starts for Fringe_64:

(Start: 97 @54938 has 5 MA's), (Start: 105 @54914 has 315 MA's), (Start: 116 @54890 has 6 MA's), (Start: 118 @54884 has 2 MA's), (123, 54842), (125, 54821), (149, 54707), (151, 54701), (155, 54671), (167, 54611), (171, 54590), (180, 54536), (183, 54524), (186, 54506), (188, 54494), (207, 54389), (214, 54332), (218, 54296), (219, 54284), (224, 54260), (226, 54248), (229, 54230), (231, 54212), (233, 54194), (241, 54155), (242, 54146), (243, 54143), (244, 54140), (289, 53783), (292, 53750), (295, 53729), (303, 53636), (305, 53627), (309, 53564), (313, 53528), (314, 53525), (317, 53510), (326, 53432), (327, 53420), (329, 53399), (337, 53360), (351, 53270), (354, 53252), (355, 53246), (357, 53231), (361, 53207), (363, 53192), (364, 53189), (365, 53177), (369, 53153), (378, 53105),

(381, 53081),

Gene: FugateOSU_61 Start: 55083, Stop: 53224, Start Num: 105

Candidate Starts for FugateOSU_61:

(Start: 97 @55107 has 5 MA's), (Start: 105 @55083 has 315 MA's), (Start: 116 @55059 has 6 MA's),
(Start: 118 @55053 has 2 MA's), (123, 55011), (125, 54990), (149, 54876), (151, 54870), (155, 54840),
(167, 54780), (171, 54759), (180, 54705), (183, 54693), (186, 54675), (188, 54663), (207, 54558),
(214, 54501), (218, 54465), (219, 54453), (225, 54426), (229, 54399), (231, 54381), (233, 54363),
(241, 54324), (242, 54315), (243, 54312), (275, 54054), (289, 53952), (292, 53919), (295, 53898),
(303, 53805), (305, 53796), (309, 53733), (313, 53697), (314, 53694), (317, 53679), (326, 53601),
(327, 53589), (329, 53568), (337, 53529), (351, 53439), (354, 53421), (355, 53415), (357, 53400),
(361, 53376), (363, 53361), (364, 53358), (365, 53346), (369, 53322), (378, 53274), (381, 53250),

Gene: Funsized_59 Start: 56200, Stop: 54350, Start Num: 103

Candidate Starts for Funsized_59:

(17, 56692), (24, 56611), (35, 56536), (45, 56497), (46, 56494), (Start: 97 @56221 has 5 MA's), (Start:
103 @56200 has 5 MA's), (Start: 108 @56191 has 2 MA's), (120, 56143), (122, 56131), (157, 55960),
(172, 55885), (175, 55861), (186, 55807), (187, 55798), (188, 55795), (190, 55783), (191, 55777),
(207, 55690), (214, 55633), (215, 55621), (218, 55597), (219, 55585), (221, 55576), (224, 55561),
(225, 55558), (226, 55549), (238, 55462), (241, 55450), (243, 55438), (247, 55414), (248, 55408),
(260, 55324), (270, 55228), (282, 55141), (283, 55138), (287, 55102), (290, 55072), (292, 55045),
(295, 55024), (296, 54994), (302, 54937), (303, 54931), (305, 54922), (309, 54859), (313, 54823),
(314, 54820), (317, 54805), (325, 54739), (326, 54727), (327, 54715), (329, 54694), (331, 54685),
(333, 54676), (342, 54625), (351, 54565), (355, 54541), (357, 54526), (361, 54502), (362, 54490),
(363, 54487), (364, 54484), (365, 54472), (369, 54448), (373, 54424), (374, 54421), (376, 54406),
(378, 54400), (381, 54376),

Gene: Gadget_59 Start: 54012, Stop: 52195, Start Num: 117

Candidate Starts for Gadget_59:

(75, 54195), (Start: 117 @54012 has 46 MA's), (120, 53982), (159, 53802), (178, 53697), (185, 53649),
(187, 53637), (192, 53607), (194, 53601), (207, 53538), (214, 53481), (218, 53445), (226, 53397),
(243, 53292), (257, 53196), (265, 53145), (282, 53001), (287, 52962), (290, 52932), (292, 52905),
(294, 52893), (302, 52797), (303, 52791), (305, 52782), (306, 52770), (311, 52698), (313, 52668),
(317, 52650), (318, 52641), (326, 52572), (327, 52560), (329, 52539), (342, 52470), (345, 52455),
(350, 52431), (351, 52410), (355, 52386), (361, 52347), (364, 52329), (365, 52317), (367, 52305),
(369, 52293), (381, 52221),

Gene: Gareth_60 Start: 54536, Stop: 52677, Start Num: 105

Candidate Starts for Gareth_60:

(Start: 97 @54560 has 5 MA's), (Start: 105 @54536 has 315 MA's), (Start: 116 @54512 has 6 MA's),
(Start: 118 @54506 has 2 MA's), (123, 54464), (125, 54443), (149, 54329), (151, 54323), (155, 54293),
(167, 54233), (171, 54212), (180, 54158), (183, 54146), (186, 54128), (188, 54116), (207, 54011),
(214, 53954), (218, 53918), (219, 53906), (225, 53879), (229, 53852), (231, 53834), (233, 53816),
(241, 53777), (242, 53768), (243, 53765), (275, 53507), (289, 53405), (292, 53372), (295, 53351),
(303, 53258), (305, 53249), (309, 53186), (313, 53150), (314, 53147), (317, 53132), (326, 53054),
(327, 53042), (329, 53021), (337, 52982), (351, 52892), (354, 52874), (355, 52868), (357, 52853),
(361, 52829), (363, 52814), (364, 52811), (365, 52799), (369, 52775), (378, 52727), (381, 52703),

Gene: GeneCoco_61 Start: 54579, Stop: 52720, Start Num: 105

Candidate Starts for GeneCoco_61:

(Start: 97 @54603 has 5 MA's), (Start: 105 @54579 has 315 MA's), (Start: 116 @54555 has 6 MA's),
(Start: 118 @54549 has 2 MA's), (123, 54507), (125, 54486), (149, 54372), (151, 54366), (155, 54336),
(167, 54276), (171, 54255), (180, 54201), (183, 54189), (186, 54171), (188, 54159), (207, 54054),

(214, 53997), (218, 53961), (219, 53949), (224, 53925), (226, 53913), (229, 53895), (231, 53877), (233, 53859), (241, 53820), (242, 53811), (243, 53808), (244, 53805), (275, 53550), (289, 53448), (292, 53415), (295, 53394), (303, 53301), (305, 53292), (309, 53229), (313, 53193), (314, 53190), (317, 53175), (326, 53097), (327, 53085), (329, 53064), (337, 53025), (351, 52935), (354, 52917), (355, 52911), (357, 52896), (361, 52872), (363, 52857), (364, 52854), (365, 52842), (369, 52818), (372, 52797), (378, 52770), (381, 52746), (382, 52731),

Gene: Gervas_59 Start: 54101, Stop: 52284, Start Num: 117

Candidate Starts for Gervas_59:

(75, 54284), (Start: 117 @54101 has 46 MA's), (120, 54071), (159, 53891), (185, 53738), (187, 53726), (192, 53696), (194, 53690), (207, 53627), (208, 53621), (214, 53570), (218, 53534), (226, 53486), (243, 53381), (257, 53285), (265, 53234), (282, 53090), (287, 53051), (290, 53021), (292, 52994), (294, 52982), (302, 52886), (303, 52880), (305, 52871), (306, 52859), (311, 52787), (313, 52757), (317, 52739), (318, 52730), (326, 52661), (327, 52649), (329, 52628), (342, 52559), (345, 52544), (350, 52520), (351, 52499), (355, 52475), (361, 52436), (364, 52418), (365, 52406), (367, 52394), (369, 52382), (376, 52340), (381, 52310),

Gene: GinPorsche_52 Start: 52983, Stop: 51160, Start Num: 101

Candidate Starts for GinPorsche_52:

(Start: 97 @53001 has 5 MA's), (Start: 101 @52983 has 17 MA's), (Start: 118 @52959 has 2 MA's), (120, 52932), (123, 52917), (125, 52896), (146, 52809), (166, 52704), (173, 52662), (186, 52596), (191, 52566), (192, 52557), (193, 52554), (194, 52551), (199, 52524), (214, 52431), (216, 52413), (218, 52395), (219, 52383), (223, 52368), (225, 52356), (242, 52245), (243, 52242), (248, 52212), (252, 52176), (282, 51951), (283, 51948), (287, 51912), (289, 51888), (292, 51855), (302, 51747), (303, 51741), (304, 51735), (305, 51732), (313, 51633), (314, 51630), (317, 51615), (326, 51537), (327, 51525), (329, 51504), (331, 51495), (337, 51465), (341, 51441), (348, 51408), (351, 51375), (354, 51357), (355, 51351), (361, 51312), (364, 51294), (365, 51282), (369, 51258), (376, 51216), (378, 51210), (381, 51186),

Gene: Giraffe_61 Start: 54531, Stop: 52672, Start Num: 105

Candidate Starts for Giraffe_61:

(Start: 97 @54555 has 5 MA's), (Start: 105 @54531 has 315 MA's), (Start: 116 @54507 has 6 MA's), (Start: 118 @54501 has 2 MA's), (123, 54459), (125, 54438), (149, 54324), (151, 54318), (155, 54288), (167, 54228), (171, 54207), (180, 54153), (183, 54141), (186, 54123), (188, 54111), (207, 54006), (214, 53949), (218, 53913), (219, 53901), (225, 53874), (229, 53847), (231, 53829), (233, 53811), (241, 53772), (242, 53763), (243, 53760), (275, 53502), (289, 53400), (292, 53367), (295, 53346), (303, 53253), (305, 53244), (309, 53181), (313, 53145), (314, 53142), (317, 53127), (326, 53049), (327, 53037), (329, 53016), (337, 52977), (351, 52887), (354, 52869), (355, 52863), (357, 52848), (361, 52824), (363, 52809), (364, 52806), (365, 52794), (369, 52770), (378, 52722), (381, 52698),

Gene: Glass_57 Start: 52601, Stop: 50772, Start Num: 105

Candidate Starts for Glass_57:

(Start: 105 @52601 has 315 MA's), (Start: 118 @52574 has 2 MA's), (121, 52544), (123, 52532), (127, 52505), (128, 52502), (132, 52493), (141, 52475), (157, 52379), (167, 52328), (172, 52304), (199, 52142), (205, 52118), (207, 52106), (214, 52049), (218, 52013), (219, 52001), (224, 51977), (235, 51893), (242, 51863), (243, 51860), (248, 51830), (268, 51686), (274, 51620), (280, 51581), (282, 51569), (284, 51548), (287, 51530), (292, 51473), (297, 51416), (301, 51389), (303, 51359), (305, 51350), (309, 51284), (312, 51257), (313, 51248), (317, 51230), (320, 51206), (326, 51152), (327, 51140), (329, 51119), (342, 51050), (351, 50990), (354, 50972), (358, 50939), (361, 50927), (363, 50912), (364, 50909), (365, 50897), (369, 50873), (370, 50870), (378, 50822), (379, 50819), (381, 50798), (383, 50777),

Gene: GlenHope_59 Start: 53675, Stop: 51858, Start Num: 117

Candidate Starts for GlenHope_59:

(Start: 117 @53675 has 46 MA's), (120, 53645), (159, 53465), (185, 53312), (187, 53300), (192, 53270), (194, 53264), (207, 53201), (208, 53195), (214, 53144), (217, 53117), (218, 53108), (226, 53060), (243, 52955), (257, 52859), (265, 52808), (282, 52664), (287, 52625), (290, 52595), (292, 52568), (294, 52556), (302, 52460), (303, 52454), (305, 52445), (306, 52433), (311, 52361), (313, 52331), (317, 52313), (318, 52304), (326, 52235), (327, 52223), (329, 52202), (342, 52133), (345, 52118), (350, 52094), (351, 52073), (354, 52055), (355, 52049), (360, 52016), (361, 52010), (364, 51992), (365, 51980), (367, 51968), (369, 51956), (376, 51914), (381, 51884),

Gene: Glubnar_59 Start: 53584, Stop: 51764, Start Num: 116

Candidate Starts for Glubnar_59:

(75, 53764), (Start: 116 @53584 has 6 MA's), (120, 53551), (159, 53371), (185, 53218), (187, 53206), (192, 53176), (194, 53170), (207, 53107), (208, 53101), (214, 53050), (218, 53014), (226, 52966), (243, 52861), (257, 52765), (265, 52714), (282, 52570), (287, 52531), (290, 52501), (292, 52474), (294, 52462), (302, 52366), (303, 52360), (305, 52351), (306, 52339), (311, 52267), (313, 52237), (317, 52219), (318, 52210), (326, 52141), (327, 52129), (329, 52108), (342, 52039), (345, 52024), (350, 52000), (351, 51979), (354, 51961), (355, 51955), (360, 51922), (361, 51916), (364, 51898), (365, 51886), (367, 51874), (369, 51862), (376, 51820), (381, 51790),

Gene: Godines_58 Start: 52884, Stop: 51055, Start Num: 105

Candidate Starts for Godines_58:

(Start: 105 @52884 has 315 MA's), (Start: 118 @52857 has 2 MA's), (123, 52815), (127, 52788), (128, 52785), (132, 52776), (141, 52758), (157, 52662), (167, 52611), (172, 52587), (175, 52563), (199, 52425), (205, 52401), (207, 52389), (214, 52332), (218, 52296), (219, 52284), (224, 52260), (235, 52176), (242, 52146), (243, 52143), (248, 52113), (268, 51969), (274, 51903), (280, 51864), (282, 51852), (284, 51831), (287, 51813), (292, 51756), (297, 51699), (301, 51672), (303, 51642), (305, 51633), (309, 51567), (312, 51540), (313, 51531), (317, 51513), (320, 51489), (326, 51435), (327, 51423), (329, 51402), (342, 51333), (351, 51273), (354, 51255), (358, 51222), (361, 51210), (363, 51195), (364, 51192), (365, 51180), (369, 51156), (370, 51153), (378, 51105), (379, 51102), (381, 51081), (383, 51060),

Gene: Gophee_62 Start: 54522, Stop: 52663, Start Num: 105

Candidate Starts for Gophee_62:

(Start: 97 @54546 has 5 MA's), (Start: 105 @54522 has 315 MA's), (Start: 116 @54498 has 6 MA's), (Start: 118 @54492 has 2 MA's), (123, 54450), (125, 54429), (149, 54315), (151, 54309), (155, 54279), (167, 54219), (171, 54198), (180, 54144), (183, 54132), (186, 54114), (188, 54102), (207, 53997), (214, 53940), (218, 53904), (219, 53892), (224, 53868), (226, 53856), (229, 53838), (231, 53820), (233, 53802), (241, 53763), (242, 53754), (243, 53751), (244, 53748), (289, 53391), (292, 53358), (295, 53337), (303, 53244), (305, 53235), (309, 53172), (313, 53136), (314, 53133), (317, 53118), (326, 53040), (327, 53028), (329, 53007), (337, 52968), (351, 52878), (354, 52860), (355, 52854), (357, 52839), (361, 52815), (363, 52800), (364, 52797), (365, 52785), (369, 52761), (372, 52740), (378, 52713), (381, 52689),

Gene: Grand2040_60 Start: 54525, Stop: 52666, Start Num: 105

Candidate Starts for Grand2040_60:

(Start: 97 @54549 has 5 MA's), (Start: 105 @54525 has 315 MA's), (Start: 116 @54501 has 6 MA's), (Start: 118 @54495 has 2 MA's), (123, 54453), (125, 54432), (149, 54318), (151, 54312), (155, 54282), (167, 54222), (171, 54201), (180, 54147), (183, 54135), (186, 54117), (188, 54105), (207, 54000), (214, 53943), (218, 53907), (219, 53895), (224, 53871), (226, 53859), (229, 53841), (231, 53823), (233, 53805), (241, 53766), (242, 53757), (243, 53754), (244, 53751), (275, 53496), (289, 53394), (292, 53361), (295, 53340), (303, 53247), (305, 53238), (309, 53175), (313, 53139), (314, 53136), (317, 53121), (326, 53043), (327, 53031), (329, 53010), (337, 52971), (351, 52881), (354, 52863), (355, 52857), (357, 52842), (361, 52818), (363, 52803), (364, 52800), (365, 52788), (369, 52764),

(372, 52743), (378, 52716), (381, 52692),

Gene: Gustav_47 Start: 36228, Stop: 33886, Start Num: 9

Candidate Starts for Gustav_47:

(3, 36366), (Start: 9 @36228 has 5 MA's), (18, 36123), (20, 36099), (27, 36045), (31, 36018), (33, 36006), (38, 35973), (48, 35946), (59, 35904), (64, 35886), (69, 35862), (73, 35823), (74, 35808), (78, 35784), (90, 35772), (128, 35610), (142, 35577), (143, 35562), (175, 35388), (180, 35361), (181, 35355), (190, 35310), (195, 35289), (206, 35232), (207, 35226), (209, 35217), (210, 35199), (211, 35193), (218, 35136), (234, 35022), (235, 35016), (236, 35013), (243, 34983), (248, 34953), (265, 34833), (279, 34707), (282, 34689), (286, 34659), (287, 34650), (292, 34593), (298, 34536), (301, 34512), (302, 34488), (303, 34482), (309, 34410), (312, 34383), (313, 34374), (314, 34371), (317, 34356), (320, 34332), (322, 34308), (326, 34278), (327, 34266), (329, 34245), (340, 34185), (347, 34152), (348, 34137), (355, 34080), (363, 34026), (364, 34023), (367, 33999), (369, 33987), (378, 33936), (381, 33912),

Gene: Gwennie1_60 Start: 54324, Stop: 52465, Start Num: 105

Candidate Starts for Gwennie1_60:

(Start: 97 @54348 has 5 MA's), (Start: 105 @54324 has 315 MA's), (Start: 116 @54300 has 6 MA's), (Start: 118 @54294 has 2 MA's), (123, 54252), (125, 54231), (149, 54117), (151, 54111), (155, 54081), (167, 54021), (171, 54000), (180, 53946), (183, 53934), (186, 53916), (188, 53904), (207, 53799), (214, 53742), (218, 53706), (219, 53694), (225, 53667), (231, 53622), (241, 53565), (242, 53556), (243, 53553), (289, 53193), (292, 53160), (295, 53139), (303, 53046), (305, 53037), (309, 52974), (313, 52938), (314, 52935), (317, 52920), (326, 52842), (327, 52830), (329, 52809), (337, 52770), (351, 52680), (354, 52662), (355, 52656), (357, 52641), (361, 52617), (363, 52602), (364, 52599), (365, 52587), (369, 52563), (378, 52515), (381, 52491),

Gene: Gwilliam_61 Start: 54930, Stop: 53071, Start Num: 105

Candidate Starts for Gwilliam_61:

(Start: 97 @54954 has 5 MA's), (Start: 105 @54930 has 315 MA's), (Start: 116 @54906 has 6 MA's), (Start: 118 @54900 has 2 MA's), (123, 54858), (125, 54837), (149, 54723), (151, 54717), (155, 54687), (167, 54627), (171, 54606), (180, 54552), (183, 54540), (186, 54522), (188, 54510), (207, 54405), (214, 54348), (218, 54312), (219, 54300), (225, 54273), (229, 54246), (231, 54228), (233, 54210), (241, 54171), (242, 54162), (243, 54159), (289, 53799), (292, 53766), (295, 53745), (303, 53652), (305, 53643), (309, 53580), (313, 53544), (314, 53541), (317, 53526), (326, 53448), (327, 53436), (329, 53415), (337, 53376), (351, 53286), (354, 53268), (355, 53262), (357, 53247), (361, 53223), (363, 53208), (364, 53205), (365, 53193), (369, 53169), (378, 53121), (381, 53097),

Gene: Gyarad_0059 Start: 53612, Stop: 51753, Start Num: 105

Candidate Starts for Gyarad_0059:

(Start: 97 @53636 has 5 MA's), (Start: 105 @53612 has 315 MA's), (Start: 116 @53588 has 6 MA's), (Start: 118 @53582 has 2 MA's), (123, 53540), (125, 53519), (149, 53405), (151, 53399), (155, 53369), (167, 53309), (171, 53288), (180, 53234), (183, 53222), (186, 53204), (188, 53192), (207, 53087), (214, 53030), (218, 52994), (219, 52982), (225, 52955), (226, 52946), (231, 52910), (241, 52853), (242, 52844), (243, 52841), (244, 52838), (289, 52481), (292, 52448), (295, 52427), (303, 52334), (305, 52325), (309, 52262), (313, 52226), (314, 52223), (317, 52208), (326, 52130), (327, 52118), (329, 52097), (337, 52058), (351, 51968), (354, 51950), (355, 51944), (357, 51929), (361, 51905), (363, 51890), (364, 51887), (365, 51875), (369, 51851), (378, 51803), (381, 51779),

Gene: HSavage_59 Start: 54056, Stop: 52197, Start Num: 105

Candidate Starts for HSavage_59:

(Start: 97 @54080 has 5 MA's), (Start: 105 @54056 has 315 MA's), (Start: 116 @54032 has 6 MA's), (Start: 118 @54026 has 2 MA's), (123, 53984), (125, 53963), (149, 53849), (151, 53843), (155, 53813), (167, 53753), (171, 53732), (180, 53678), (183, 53666), (186, 53648), (188, 53636), (207, 53531),

(214, 53474), (218, 53438), (219, 53426), (225, 53399), (231, 53354), (241, 53297), (242, 53288), (243, 53285), (244, 53282), (275, 53027), (289, 52925), (292, 52892), (295, 52871), (303, 52778), (305, 52769), (309, 52706), (313, 52670), (314, 52667), (317, 52652), (326, 52574), (327, 52562), (329, 52541), (337, 52502), (351, 52412), (354, 52394), (355, 52388), (357, 52373), (361, 52349), (363, 52334), (364, 52331), (365, 52319), (369, 52295), (378, 52247), (381, 52223),

Gene: Haimas_59 Start: 53973, Stop: 52114, Start Num: 105

Candidate Starts for Haimas_59:

(Start: 97 @53997 has 5 MA's), (Start: 105 @53973 has 315 MA's), (Start: 116 @53949 has 6 MA's), (Start: 118 @53943 has 2 MA's), (123, 53901), (125, 53880), (149, 53766), (151, 53760), (155, 53730), (167, 53670), (171, 53649), (180, 53595), (183, 53583), (186, 53565), (188, 53553), (207, 53448), (214, 53391), (218, 53355), (219, 53343), (225, 53316), (229, 53289), (231, 53271), (233, 53253), (241, 53214), (242, 53205), (243, 53202), (244, 53199), (275, 52944), (289, 52842), (292, 52809), (295, 52788), (303, 52695), (305, 52686), (309, 52623), (313, 52587), (314, 52584), (317, 52569), (326, 52491), (327, 52479), (329, 52458), (337, 52419), (351, 52329), (354, 52311), (355, 52305), (357, 52290), (361, 52266), (363, 52251), (364, 52248), (365, 52236), (369, 52212), (378, 52164), (381, 52140),

Gene: Haleema_59 Start: 54071, Stop: 52212, Start Num: 105

Candidate Starts for Haleema_59:

(Start: 97 @54095 has 5 MA's), (Start: 105 @54071 has 315 MA's), (Start: 116 @54047 has 6 MA's), (Start: 118 @54041 has 2 MA's), (123, 53999), (125, 53978), (149, 53864), (151, 53858), (155, 53828), (167, 53768), (171, 53747), (180, 53693), (183, 53681), (186, 53663), (188, 53651), (207, 53546), (214, 53489), (218, 53453), (219, 53441), (224, 53417), (226, 53405), (229, 53387), (231, 53369), (233, 53351), (241, 53312), (242, 53303), (243, 53300), (244, 53297), (289, 52940), (292, 52907), (295, 52886), (303, 52793), (305, 52784), (309, 52721), (313, 52685), (314, 52682), (317, 52667), (326, 52589), (327, 52577), (329, 52556), (337, 52517), (351, 52427), (354, 52409), (355, 52403), (357, 52388), (361, 52364), (363, 52349), (364, 52346), (365, 52334), (369, 52310), (378, 52262), (381, 52238),

Gene: Halfpint_57 Start: 53415, Stop: 51598, Start Num: 117

Candidate Starts for Halfpint_57:

(75, 53598), (Start: 117 @53415 has 46 MA's), (120, 53385), (159, 53205), (185, 53052), (187, 53040), (192, 53010), (194, 53004), (207, 52941), (208, 52935), (214, 52884), (218, 52848), (226, 52800), (243, 52695), (257, 52599), (265, 52548), (282, 52404), (287, 52365), (290, 52335), (292, 52308), (294, 52296), (302, 52200), (303, 52194), (305, 52185), (306, 52173), (311, 52101), (313, 52071), (317, 52053), (318, 52044), (326, 51975), (327, 51963), (329, 51942), (342, 51873), (345, 51858), (350, 51834), (351, 51813), (354, 51795), (355, 51789), (361, 51750), (364, 51732), (365, 51720), (369, 51696), (376, 51654), (381, 51624),

Gene: Hally898_52 Start: 52998, Stop: 51175, Start Num: 101

Candidate Starts for Hally898_52:

(Start: 97 @53016 has 5 MA's), (Start: 101 @52998 has 17 MA's), (Start: 118 @52974 has 2 MA's), (120, 52947), (123, 52932), (125, 52911), (146, 52824), (166, 52719), (173, 52677), (186, 52611), (191, 52581), (192, 52572), (193, 52569), (194, 52566), (199, 52539), (214, 52446), (216, 52428), (218, 52410), (219, 52398), (223, 52383), (225, 52371), (242, 52260), (243, 52257), (248, 52227), (252, 52191), (282, 51966), (283, 51963), (287, 51927), (289, 51903), (292, 51870), (302, 51762), (303, 51756), (304, 51750), (305, 51747), (313, 51648), (314, 51645), (317, 51630), (326, 51552), (327, 51540), (329, 51519), (331, 51510), (337, 51480), (341, 51456), (348, 51423), (351, 51390), (354, 51372), (355, 51366), (361, 51327), (364, 51309), (365, 51297), (369, 51273), (376, 51231), (378, 51225), (381, 51201),

Gene: Hamish_59 Start: 53967, Stop: 52108, Start Num: 105

Candidate Starts for Hamish_59:

(Start: 97 @53991 has 5 MA's), (Start: 105 @53967 has 315 MA's), (Start: 116 @53943 has 6 MA's),
(Start: 118 @53937 has 2 MA's), (123, 53895), (125, 53874), (149, 53760), (151, 53754), (155, 53724),
(167, 53664), (171, 53643), (180, 53589), (183, 53577), (186, 53559), (188, 53547), (207, 53442),
(214, 53385), (218, 53349), (219, 53337), (225, 53310), (229, 53283), (231, 53265), (233, 53247),
(241, 53208), (242, 53199), (243, 53196), (244, 53193), (275, 52938), (289, 52836), (292, 52803),
(295, 52782), (303, 52689), (305, 52680), (309, 52617), (313, 52581), (314, 52578), (317, 52563),
(326, 52485), (327, 52473), (329, 52452), (337, 52413), (351, 52323), (354, 52305), (355, 52299),
(357, 52284), (361, 52260), (363, 52245), (364, 52242), (365, 52230), (369, 52206), (378, 52158),
(381, 52134),

Gene: Hangman_53 Start: 54053, Stop: 52230, Start Num: 101

Candidate Starts for Hangman_53:

(Start: 97 @54071 has 5 MA's), (Start: 101 @54053 has 17 MA's), (Start: 118 @54029 has 2 MA's),
(120, 54002), (123, 53987), (125, 53966), (146, 53879), (166, 53774), (171, 53747), (173, 53732),
(186, 53666), (191, 53636), (192, 53627), (193, 53624), (194, 53621), (199, 53594), (214, 53501),
(216, 53483), (218, 53465), (219, 53453), (225, 53426), (233, 53363), (241, 53324), (242, 53315),
(243, 53312), (248, 53282), (252, 53246), (282, 53021), (283, 53018), (287, 52982), (289, 52958),
(292, 52925), (302, 52817), (303, 52811), (305, 52802), (313, 52703), (314, 52700), (317, 52685),
(326, 52607), (327, 52595), (329, 52574), (331, 52565), (337, 52535), (348, 52478), (351, 52445),
(355, 52421), (361, 52382), (364, 52364), (365, 52352), (369, 52328), (376, 52286), (378, 52280),
(381, 52256),

Gene: Happabalu_61 Start: 55107, Stop: 53248, Start Num: 105

Candidate Starts for Happabalu_61:

(Start: 97 @55131 has 5 MA's), (Start: 105 @55107 has 315 MA's), (Start: 116 @55083 has 6 MA's),
(Start: 118 @55077 has 2 MA's), (123, 55035), (125, 55014), (149, 54900), (151, 54894), (155, 54864),
(167, 54804), (171, 54783), (180, 54729), (183, 54717), (186, 54699), (188, 54687), (207, 54582),
(214, 54525), (218, 54489), (219, 54477), (225, 54450), (231, 54405), (241, 54348), (242, 54339),
(243, 54336), (289, 53976), (292, 53943), (295, 53922), (303, 53829), (305, 53820), (309, 53757),
(313, 53721), (314, 53718), (317, 53703), (326, 53625), (327, 53613), (329, 53592), (337, 53553),
(351, 53463), (354, 53445), (355, 53439), (357, 53424), (361, 53400), (363, 53385), (364, 53382),
(365, 53370), (369, 53346), (378, 53298), (381, 53274),

Gene: Hartsy_61 Start: 54405, Stop: 52546, Start Num: 105

Candidate Starts for Hartsy_61:

(Start: 97 @54429 has 5 MA's), (Start: 105 @54405 has 315 MA's), (Start: 116 @54381 has 6 MA's),
(Start: 118 @54375 has 2 MA's), (123, 54333), (125, 54312), (149, 54198), (151, 54192), (155, 54162),
(167, 54102), (171, 54081), (180, 54027), (183, 54015), (186, 53997), (188, 53985), (207, 53880),
(214, 53823), (218, 53787), (219, 53775), (224, 53751), (226, 53739), (229, 53721), (231, 53703),
(233, 53685), (241, 53646), (242, 53637), (243, 53634), (244, 53631), (289, 53274), (292, 53241),
(295, 53220), (303, 53127), (305, 53118), (309, 53055), (313, 53019), (314, 53016), (317, 53001),
(326, 52923), (327, 52911), (329, 52890), (337, 52851), (351, 52761), (354, 52743), (355, 52737),
(357, 52722), (361, 52698), (363, 52683), (364, 52680), (365, 52668), (369, 52644), (378, 52596),
(381, 52572),

Gene: Harvey_59 Start: 54060, Stop: 52201, Start Num: 105

Candidate Starts for Harvey_59:

(Start: 97 @54084 has 5 MA's), (Start: 105 @54060 has 315 MA's), (Start: 116 @54036 has 6 MA's),
(Start: 118 @54030 has 2 MA's), (123, 53988), (125, 53967), (149, 53853), (151, 53847), (155, 53817),
(167, 53757), (171, 53736), (180, 53682), (183, 53670), (186, 53652), (188, 53640), (207, 53535),
(214, 53478), (218, 53442), (219, 53430), (225, 53403), (229, 53376), (231, 53358), (233, 53340),
(241, 53301), (242, 53292), (243, 53289), (275, 53031), (289, 52929), (292, 52896), (295, 52875),

(303, 52782), (305, 52773), (309, 52710), (314, 52671), (317, 52656), (326, 52578), (327, 52566), (329, 52545), (337, 52506), (351, 52416), (354, 52398), (355, 52392), (357, 52377), (361, 52353), (363, 52338), (364, 52335), (365, 52323), (369, 52299), (378, 52251), (381, 52227),

Gene: HarveySr_57 Start: 53268, Stop: 51448, Start Num: 116

Candidate Starts for HarveySr_57:

(75, 53448), (Start: 116 @53268 has 6 MA's), (120, 53235), (159, 53055), (178, 52950), (185, 52902), (187, 52890), (192, 52860), (194, 52854), (207, 52791), (208, 52785), (214, 52734), (217, 52707), (218, 52698), (226, 52650), (243, 52545), (257, 52449), (265, 52398), (282, 52254), (287, 52215), (290, 52185), (292, 52158), (294, 52146), (302, 52050), (303, 52044), (305, 52035), (306, 52023), (311, 51951), (313, 51921), (317, 51903), (318, 51894), (326, 51825), (327, 51813), (329, 51792), (342, 51723), (345, 51708), (350, 51684), (354, 51645), (355, 51639), (360, 51606), (361, 51600), (364, 51582), (365, 51570), (367, 51558), (369, 51546), (381, 51474),

Gene: Hashim76_61 Start: 54527, Stop: 52683, Start Num: 110

Candidate Starts for Hashim76_61:

(Start: 110 @54527 has 3 MA's), (123, 54470), (127, 54443), (151, 54341), (167, 54254), (172, 54230), (176, 54200), (180, 54179), (185, 54155), (188, 54140), (191, 54122), (207, 54035), (218, 53942), (219, 53930), (226, 53894), (243, 53789), (265, 53642), (272, 53558), (273, 53552), (282, 53492), (283, 53489), (287, 53453), (289, 53429), (292, 53396), (302, 53288), (303, 53282), (305, 53273), (313, 53159), (317, 53141), (326, 53063), (327, 53051), (329, 53030), (342, 52961), (345, 52946), (351, 52901), (355, 52877), (361, 52838), (363, 52823), (365, 52808), (369, 52784), (376, 52739), (381, 52709),

Gene: Heath_52 Start: 53664, Stop: 51841, Start Num: 101

Candidate Starts for Heath_52:

(Start: 97 @53682 has 5 MA's), (Start: 101 @53664 has 17 MA's), (Start: 118 @53640 has 2 MA's), (120, 53613), (123, 53598), (125, 53577), (146, 53490), (166, 53385), (173, 53343), (186, 53277), (191, 53247), (192, 53238), (193, 53235), (194, 53232), (214, 53112), (216, 53094), (218, 53076), (219, 53064), (223, 53049), (225, 53037), (242, 52926), (243, 52923), (248, 52893), (252, 52857), (282, 52632), (283, 52629), (287, 52593), (289, 52569), (292, 52536), (302, 52428), (303, 52422), (305, 52413), (313, 52314), (314, 52311), (317, 52296), (326, 52218), (327, 52206), (329, 52185), (331, 52176), (337, 52146), (348, 52089), (351, 52056), (354, 52038), (355, 52032), (361, 51993), (364, 51975), (365, 51963), (369, 51939), (376, 51897), (378, 51891), (381, 51867),

Gene: Heathcliff_58 Start: 53642, Stop: 51825, Start Num: 117

Candidate Starts for Heathcliff_58:

(75, 53825), (Start: 117 @53642 has 46 MA's), (120, 53612), (159, 53432), (185, 53279), (187, 53267), (192, 53237), (194, 53231), (207, 53168), (208, 53162), (214, 53111), (218, 53075), (226, 53027), (243, 52922), (257, 52826), (265, 52775), (282, 52631), (287, 52592), (290, 52562), (292, 52535), (294, 52523), (302, 52427), (303, 52421), (305, 52412), (306, 52400), (311, 52328), (313, 52298), (317, 52280), (318, 52271), (326, 52202), (327, 52190), (329, 52169), (342, 52100), (345, 52085), (350, 52061), (351, 52040), (355, 52016), (361, 51977), (364, 51959), (365, 51947), (367, 51935), (369, 51923), (376, 51881), (381, 51851),

Gene: Hedgerow_57 Start: 52616, Stop: 50787, Start Num: 105

Candidate Starts for Hedgerow_57:

(Start: 105 @52616 has 315 MA's), (Start: 118 @52589 has 2 MA's), (121, 52559), (123, 52547), (127, 52520), (128, 52517), (132, 52508), (141, 52490), (157, 52394), (167, 52343), (172, 52319), (199, 52157), (205, 52133), (207, 52121), (214, 52064), (218, 52028), (219, 52016), (224, 51992), (235, 51908), (242, 51878), (243, 51875), (248, 51845), (268, 51701), (274, 51635), (280, 51596), (282, 51584), (284, 51563), (287, 51545), (292, 51488), (297, 51431), (301, 51404), (303, 51374), (305, 51365), (309, 51299), (312, 51272), (313, 51263), (317, 51245), (320, 51221), (326, 51167), (327,

51155), (329, 51134), (342, 51065), (351, 51005), (354, 50987), (358, 50954), (361, 50942), (363, 50927), (364, 50924), (365, 50912), (369, 50888), (370, 50885), (378, 50837), (379, 50834), (381, 50813), (383, 50792),

Gene: Held_60 Start: 54034, Stop: 52175, Start Num: 105

Candidate Starts for Held_60:

(Start: 97 @54058 has 5 MA's), (Start: 105 @54034 has 315 MA's), (Start: 116 @54010 has 6 MA's), (Start: 118 @54004 has 2 MA's), (123, 53962), (125, 53941), (149, 53827), (151, 53821), (155, 53791), (167, 53731), (171, 53710), (180, 53656), (183, 53644), (186, 53626), (188, 53614), (207, 53509), (214, 53452), (218, 53416), (219, 53404), (225, 53377), (231, 53332), (241, 53275), (242, 53266), (243, 53263), (289, 52903), (292, 52870), (295, 52849), (303, 52756), (305, 52747), (309, 52684), (313, 52648), (314, 52645), (317, 52630), (326, 52552), (327, 52540), (329, 52519), (337, 52480), (351, 52390), (354, 52372), (355, 52366), (357, 52351), (361, 52327), (363, 52312), (364, 52309), (365, 52297), (369, 52273), (378, 52225), (381, 52201),

Gene: HenryJackson_60 Start: 54560, Stop: 52701, Start Num: 105

Candidate Starts for HenryJackson_60:

(Start: 97 @54584 has 5 MA's), (Start: 105 @54560 has 315 MA's), (Start: 116 @54536 has 6 MA's), (Start: 118 @54530 has 2 MA's), (123, 54488), (125, 54467), (149, 54353), (151, 54347), (155, 54317), (167, 54257), (171, 54236), (180, 54182), (183, 54170), (186, 54152), (188, 54140), (207, 54035), (214, 53978), (218, 53942), (219, 53930), (225, 53903), (229, 53876), (231, 53858), (233, 53840), (241, 53801), (242, 53792), (243, 53789), (275, 53531), (289, 53429), (292, 53396), (295, 53375), (303, 53282), (305, 53273), (309, 53210), (313, 53174), (314, 53171), (317, 53156), (326, 53078), (327, 53066), (329, 53045), (337, 53006), (351, 52916), (354, 52898), (355, 52892), (357, 52877), (361, 52853), (363, 52838), (364, 52835), (365, 52823), (369, 52799), (372, 52778), (378, 52751), (381, 52727),

Gene: Hertubise_60 Start: 54326, Stop: 52467, Start Num: 105

Candidate Starts for Hertubise_60:

(Start: 97 @54350 has 5 MA's), (Start: 105 @54326 has 315 MA's), (Start: 116 @54302 has 6 MA's), (Start: 118 @54296 has 2 MA's), (123, 54254), (125, 54233), (149, 54119), (151, 54113), (155, 54083), (167, 54023), (171, 54002), (180, 53948), (183, 53936), (186, 53918), (188, 53906), (207, 53801), (214, 53744), (218, 53708), (219, 53696), (225, 53669), (229, 53642), (231, 53624), (233, 53606), (241, 53567), (242, 53558), (243, 53555), (275, 53297), (289, 53195), (292, 53162), (295, 53141), (303, 53048), (305, 53039), (309, 52976), (313, 52940), (314, 52937), (317, 52922), (326, 52844), (327, 52832), (329, 52811), (337, 52772), (351, 52682), (354, 52664), (355, 52658), (357, 52643), (361, 52619), (363, 52604), (364, 52601), (365, 52589), (369, 52565), (378, 52517), (381, 52493),

Gene: Hetaeria_60 Start: 54265, Stop: 52406, Start Num: 105

Candidate Starts for Hetaeria_60:

(Start: 97 @54289 has 5 MA's), (Start: 105 @54265 has 315 MA's), (Start: 116 @54241 has 6 MA's), (Start: 118 @54235 has 2 MA's), (123, 54193), (125, 54172), (149, 54058), (151, 54052), (155, 54022), (167, 53962), (171, 53941), (180, 53887), (183, 53875), (186, 53857), (188, 53845), (207, 53740), (214, 53683), (218, 53647), (219, 53635), (224, 53611), (226, 53599), (229, 53581), (231, 53563), (233, 53545), (241, 53506), (242, 53497), (243, 53494), (244, 53491), (289, 53134), (292, 53101), (295, 53080), (303, 52987), (305, 52978), (309, 52915), (313, 52879), (314, 52876), (317, 52861), (326, 52783), (327, 52771), (329, 52750), (337, 52711), (351, 52621), (354, 52603), (355, 52597), (357, 52582), (361, 52558), (363, 52543), (364, 52540), (365, 52528), (369, 52504), (378, 52456), (381, 52432),

Gene: HighStump_62 Start: 54537, Stop: 52678, Start Num: 105

Candidate Starts for HighStump_62:

(Start: 97 @54561 has 5 MA's), (Start: 105 @54537 has 315 MA's), (Start: 116 @54513 has 6 MA's),
(Start: 118 @54507 has 2 MA's), (123, 54465), (125, 54444), (149, 54330), (151, 54324), (155, 54294),
(167, 54234), (171, 54213), (180, 54159), (183, 54147), (186, 54129), (207, 54012), (214, 53955),
(218, 53919), (219, 53907), (225, 53880), (229, 53853), (231, 53835), (233, 53817), (241, 53778),
(242, 53769), (243, 53766), (289, 53406), (292, 53373), (295, 53352), (303, 53259), (305, 53250),
(309, 53187), (314, 53148), (317, 53133), (326, 53055), (327, 53043), (329, 53022), (337, 52983),
(350, 52914), (351, 52893), (354, 52875), (355, 52869), (357, 52854), (361, 52830), (363, 52815),
(364, 52812), (365, 52800), (369, 52776), (378, 52728), (381, 52704),

Gene: Hocus_60 Start: 54021, Stop: 52162, Start Num: 105

Candidate Starts for Hocus_60:

(Start: 97 @54045 has 5 MA's), (Start: 105 @54021 has 315 MA's), (Start: 116 @53997 has 6 MA's),
(Start: 118 @53991 has 2 MA's), (123, 53949), (125, 53928), (149, 53814), (151, 53808), (155, 53778),
(167, 53718), (171, 53697), (180, 53643), (183, 53631), (186, 53613), (188, 53601), (207, 53496),
(214, 53439), (218, 53403), (219, 53391), (225, 53364), (231, 53319), (241, 53262), (242, 53253),
(243, 53250), (289, 52890), (292, 52857), (295, 52836), (303, 52743), (305, 52734), (309, 52671),
(313, 52635), (314, 52632), (317, 52617), (326, 52539), (327, 52527), (329, 52506), (337, 52467),
(351, 52377), (354, 52359), (355, 52353), (357, 52338), (361, 52314), (363, 52299), (364, 52296),
(365, 52284), (369, 52260), (378, 52212), (381, 52188),

Gene: HogWash_62 Start: 55099, Stop: 53240, Start Num: 105

Candidate Starts for HogWash_62:

(Start: 97 @55123 has 5 MA's), (Start: 105 @55099 has 315 MA's), (Start: 116 @55075 has 6 MA's),
(Start: 118 @55069 has 2 MA's), (123, 55027), (125, 55006), (149, 54892), (151, 54886), (155, 54856),
(167, 54796), (171, 54775), (180, 54721), (183, 54709), (186, 54691), (188, 54679), (207, 54574),
(214, 54517), (218, 54481), (219, 54469), (224, 54445), (226, 54433), (229, 54415), (231, 54397),
(233, 54379), (241, 54340), (242, 54331), (243, 54328), (244, 54325), (289, 53968), (292, 53935),
(295, 53914), (303, 53821), (305, 53812), (309, 53749), (313, 53713), (314, 53710), (317, 53695),
(326, 53617), (327, 53605), (329, 53584), (337, 53545), (351, 53455), (354, 53437), (355, 53431),
(357, 53416), (361, 53392), (363, 53377), (364, 53374), (365, 53362), (369, 53338), (378, 53290),
(381, 53266),

Gene: Holeinone_57 Start: 52455, Stop: 50626, Start Num: 105

Candidate Starts for Holeinone_57:

(Start: 105 @52455 has 315 MA's), (Start: 118 @52428 has 2 MA's), (121, 52398), (123, 52386), (127,
52359), (128, 52356), (132, 52347), (141, 52329), (157, 52233), (167, 52182), (172, 52158), (199,
51996), (204, 51981), (205, 51972), (207, 51960), (214, 51903), (218, 51867), (219, 51855), (224,
51831), (235, 51747), (242, 51717), (243, 51714), (248, 51684), (268, 51540), (274, 51474), (282,
51423), (284, 51402), (287, 51384), (292, 51327), (301, 51243), (303, 51213), (305, 51204), (309,
51138), (312, 51111), (313, 51102), (317, 51084), (320, 51060), (326, 51006), (327, 50994), (329,
50973), (342, 50904), (351, 50844), (354, 50826), (358, 50793), (361, 50781), (363, 50766), (364,
50763), (365, 50751), (369, 50727), (370, 50724), (378, 50676), (379, 50673), (381, 50652), (383,
50631),

Gene: Horchata_59 Start: 54056, Stop: 52197, Start Num: 105

Candidate Starts for Horchata_59:

(Start: 97 @54080 has 5 MA's), (Start: 105 @54056 has 315 MA's), (Start: 116 @54032 has 6 MA's),
(Start: 118 @54026 has 2 MA's), (123, 53984), (125, 53963), (149, 53849), (151, 53843), (155, 53813),
(167, 53753), (171, 53732), (180, 53678), (183, 53666), (186, 53648), (188, 53636), (207, 53531),
(214, 53474), (218, 53438), (219, 53426), (225, 53399), (226, 53390), (231, 53354), (241, 53297),
(242, 53288), (243, 53285), (244, 53282), (289, 52925), (292, 52892), (295, 52871), (303, 52778),
(305, 52769), (309, 52706), (313, 52670), (314, 52667), (317, 52652), (326, 52574), (327, 52562),
(329, 52541), (337, 52502), (351, 52412), (354, 52394), (355, 52388), (357, 52373), (361, 52349),

(363, 52334), (364, 52331), (365, 52319), (369, 52295), (378, 52247), (381, 52223),

Gene: Hosp_050 Start: 50681, Stop: 48840, Start Num: 103

Candidate Starts for Hosp_050:

(55, 50945), (58, 50930), (Start: 103 @50681 has 5 MA's), (120, 50624), (123, 50609), (157, 50435), (167, 50384), (168, 50381), (172, 50360), (180, 50309), (181, 50303), (185, 50285), (192, 50243), (193, 50240), (199, 50210), (214, 50117), (218, 50081), (219, 50069), (237, 49955), (242, 49931), (243, 49928), (272, 49697), (283, 49628), (284, 49610), (287, 49592), (292, 49535), (302, 49427), (303, 49421), (305, 49412), (309, 49349), (313, 49313), (314, 49310), (317, 49295), (326, 49217), (327, 49205), (329, 49184), (330, 49178), (337, 49145), (342, 49115), (345, 49100), (349, 49079), (351, 49055), (355, 49031), (361, 48992), (362, 48980), (363, 48977), (364, 48974), (365, 48962), (369, 48938), (381, 48866), (383, 48845),

Gene: Hydro_53 Start: 54045, Stop: 52222, Start Num: 101

Candidate Starts for Hydro_53:

(Start: 97 @54063 has 5 MA's), (Start: 101 @54045 has 17 MA's), (Start: 118 @54021 has 2 MA's), (120, 53994), (123, 53979), (125, 53958), (146, 53871), (166, 53766), (173, 53724), (186, 53658), (191, 53628), (192, 53619), (193, 53616), (194, 53613), (214, 53493), (216, 53475), (218, 53457), (219, 53445), (223, 53430), (225, 53418), (242, 53307), (243, 53304), (248, 53274), (252, 53238), (282, 53013), (283, 53010), (287, 52974), (289, 52950), (292, 52917), (302, 52809), (303, 52803), (305, 52794), (313, 52695), (314, 52692), (317, 52677), (326, 52599), (327, 52587), (329, 52566), (331, 52557), (337, 52527), (348, 52470), (351, 52437), (354, 52419), (355, 52413), (361, 52374), (364, 52356), (365, 52344), (369, 52320), (376, 52278), (378, 52272), (381, 52248),

Gene: ImtiyazSitla_62 Start: 54257, Stop: 52398, Start Num: 105

Candidate Starts for ImtiyazSitla_62:

(Start: 97 @54281 has 5 MA's), (Start: 105 @54257 has 315 MA's), (Start: 116 @54233 has 6 MA's), (Start: 118 @54227 has 2 MA's), (123, 54185), (125, 54164), (149, 54050), (151, 54044), (155, 54014), (167, 53954), (171, 53933), (180, 53879), (183, 53867), (186, 53849), (188, 53837), (207, 53732), (214, 53675), (218, 53639), (219, 53627), (224, 53603), (226, 53591), (229, 53573), (231, 53555), (233, 53537), (241, 53498), (242, 53489), (243, 53486), (244, 53483), (275, 53228), (289, 53126), (292, 53093), (295, 53072), (303, 52979), (305, 52970), (309, 52907), (313, 52871), (314, 52868), (317, 52853), (326, 52775), (327, 52763), (329, 52742), (337, 52703), (351, 52613), (354, 52595), (355, 52589), (357, 52574), (361, 52550), (363, 52535), (364, 52532), (365, 52520), (369, 52496), (372, 52475), (378, 52448), (381, 52424),

Gene: Imvubu_52 Start: 51848, Stop: 49983, Start Num: 98

Candidate Starts for Imvubu_52:

(70, 52028), (91, 51866), (94, 51863), (Start: 98 @51848 has 1 MA's), (Start: 118 @51803 has 2 MA's), (120, 51776), (128, 51731), (172, 51518), (187, 51431), (207, 51323), (214, 51266), (218, 51230), (219, 51218), (224, 51194), (225, 51191), (226, 51182), (227, 51176), (243, 51071), (248, 51041), (252, 51005), (253, 50999), (283, 50771), (292, 50678), (303, 50564), (305, 50555), (309, 50492), (313, 50456), (314, 50453), (317, 50438), (326, 50360), (327, 50348), (329, 50327), (331, 50318), (335, 50300), (342, 50258), (345, 50243), (351, 50198), (355, 50174), (357, 50159), (361, 50135), (362, 50123), (363, 50120), (364, 50117), (365, 50105), (367, 50093), (369, 50081), (373, 50057), (381, 50009),

Gene: Inchworm_62 Start: 54408, Stop: 52549, Start Num: 105

Candidate Starts for Inchworm_62:

(Start: 97 @54432 has 5 MA's), (Start: 105 @54408 has 315 MA's), (Start: 116 @54384 has 6 MA's), (Start: 118 @54378 has 2 MA's), (123, 54336), (125, 54315), (149, 54201), (151, 54195), (155, 54165), (167, 54105), (171, 54084), (180, 54030), (183, 54018), (186, 54000), (188, 53988), (207, 53883), (214, 53826), (218, 53790), (219, 53778), (225, 53751), (229, 53724), (231, 53706), (233, 53688),

(241, 53649), (242, 53640), (243, 53637), (244, 53634), (289, 53277), (292, 53244), (295, 53223), (303, 53130), (305, 53121), (309, 53058), (313, 53022), (314, 53019), (317, 53004), (326, 52926), (327, 52914), (329, 52893), (337, 52854), (351, 52764), (354, 52746), (355, 52740), (357, 52725), (361, 52701), (363, 52686), (364, 52683), (365, 52671), (369, 52647), (378, 52599), (381, 52575),

Gene: Indlovu_55 Start: 54200, Stop: 52356, Start Num: 106

Candidate Starts for Indlovu_55:

(Start: 106 @54200 has 3 MA's), (125, 54098), (155, 53960), (172, 53876), (192, 53759), (193, 53756), (207, 53690), (214, 53633), (218, 53597), (219, 53585), (224, 53561), (242, 53447), (243, 53444), (244, 53441), (252, 53378), (272, 53213), (274, 53204), (287, 53108), (292, 53051), (296, 53000), (303, 52937), (305, 52928), (309, 52865), (317, 52811), (320, 52787), (326, 52733), (327, 52721), (329, 52700), (331, 52691), (333, 52682), (341, 52637), (342, 52631), (345, 52616), (351, 52571), (354, 52553), (355, 52547), (361, 52508), (362, 52496), (363, 52493), (364, 52490), (367, 52466), (369, 52454), (381, 52382),

Gene: Inverness_59 Start: 54064, Stop: 52205, Start Num: 105

Candidate Starts for Inverness_59:

(Start: 97 @54088 has 5 MA's), (Start: 105 @54064 has 315 MA's), (Start: 116 @54040 has 6 MA's), (Start: 118 @54034 has 2 MA's), (123, 53992), (125, 53971), (149, 53857), (151, 53851), (155, 53821), (167, 53761), (171, 53740), (180, 53686), (183, 53674), (186, 53656), (188, 53644), (207, 53539), (214, 53482), (218, 53446), (219, 53434), (224, 53410), (226, 53398), (229, 53380), (231, 53362), (233, 53344), (241, 53305), (242, 53296), (243, 53293), (244, 53290), (289, 52933), (292, 52900), (295, 52879), (303, 52786), (305, 52777), (309, 52714), (314, 52675), (317, 52660), (326, 52582), (327, 52570), (329, 52549), (337, 52510), (351, 52420), (354, 52402), (355, 52396), (357, 52381), (361, 52357), (363, 52342), (364, 52339), (365, 52327), (369, 52303), (378, 52255), (381, 52231),

Gene: Iridessa_61 Start: 53981, Stop: 52122, Start Num: 105

Candidate Starts for Iridessa_61:

(Start: 97 @54005 has 5 MA's), (Start: 105 @53981 has 315 MA's), (Start: 116 @53957 has 6 MA's), (Start: 118 @53951 has 2 MA's), (123, 53909), (125, 53888), (149, 53774), (151, 53768), (155, 53738), (167, 53678), (171, 53657), (180, 53603), (183, 53591), (186, 53573), (188, 53561), (207, 53456), (214, 53399), (218, 53363), (219, 53351), (224, 53327), (226, 53315), (229, 53297), (231, 53279), (233, 53261), (241, 53222), (242, 53213), (243, 53210), (244, 53207), (289, 52850), (292, 52817), (295, 52796), (303, 52703), (305, 52694), (309, 52631), (313, 52595), (314, 52592), (317, 52577), (326, 52499), (327, 52487), (329, 52466), (337, 52427), (351, 52337), (354, 52319), (355, 52313), (357, 52298), (361, 52274), (363, 52259), (364, 52256), (365, 52244), (369, 52220), (378, 52172), (381, 52148),

Gene: Iridoclysis_61 Start: 54348, Stop: 52489, Start Num: 105

Candidate Starts for Iridoclysis_61:

(Start: 97 @54372 has 5 MA's), (Start: 105 @54348 has 315 MA's), (Start: 116 @54324 has 6 MA's), (Start: 118 @54318 has 2 MA's), (123, 54276), (125, 54255), (149, 54141), (151, 54135), (155, 54105), (167, 54045), (171, 54024), (180, 53970), (183, 53958), (186, 53940), (188, 53928), (207, 53823), (214, 53766), (218, 53730), (219, 53718), (225, 53691), (229, 53664), (231, 53646), (233, 53628), (241, 53589), (242, 53580), (243, 53577), (275, 53319), (289, 53217), (292, 53184), (295, 53163), (303, 53070), (305, 53061), (309, 52998), (313, 52962), (314, 52959), (317, 52944), (326, 52866), (327, 52854), (329, 52833), (337, 52794), (351, 52704), (354, 52686), (355, 52680), (357, 52665), (361, 52641), (363, 52626), (364, 52623), (365, 52611), (369, 52587), (378, 52539), (381, 52515),

Gene: IsaacEli_62 Start: 54547, Stop: 52688, Start Num: 105

Candidate Starts for IsaacEli_62:

(Start: 97 @54571 has 5 MA's), (Start: 105 @54547 has 315 MA's), (Start: 116 @54523 has 6 MA's), (Start: 118 @54517 has 2 MA's), (123, 54475), (125, 54454), (149, 54340), (151, 54334), (155, 54304),

(167, 54244), (171, 54223), (180, 54169), (183, 54157), (186, 54139), (188, 54127), (207, 54022), (214, 53965), (218, 53929), (219, 53917), (221, 53908), (225, 53890), (229, 53863), (231, 53845), (233, 53827), (241, 53788), (242, 53779), (243, 53776), (244, 53773), (275, 53518), (289, 53416), (292, 53383), (295, 53362), (303, 53269), (305, 53260), (309, 53197), (313, 53161), (314, 53158), (317, 53143), (326, 53065), (327, 53053), (329, 53032), (337, 52993), (351, 52903), (354, 52885), (355, 52879), (357, 52864), (361, 52840), (363, 52825), (364, 52822), (365, 52810), (369, 52786), (378, 52738), (381, 52714),

Gene: ItsyBitsy1_57 Start: 52478, Stop: 50649, Start Num: 105

Candidate Starts for ItsyBitsy1_57:

(Start: 105 @52478 has 315 MA's), (Start: 118 @52451 has 2 MA's), (121, 52421), (123, 52409), (127, 52382), (128, 52379), (132, 52370), (141, 52352), (157, 52256), (167, 52205), (172, 52181), (175, 52157), (199, 52019), (205, 51995), (207, 51983), (214, 51926), (218, 51890), (219, 51878), (224, 51854), (235, 51770), (242, 51740), (243, 51737), (248, 51707), (268, 51563), (274, 51497), (282, 51446), (284, 51425), (287, 51407), (292, 51350), (301, 51266), (305, 51227), (309, 51161), (312, 51134), (313, 51125), (317, 51107), (320, 51083), (326, 51029), (327, 51017), (329, 50996), (342, 50927), (351, 50867), (354, 50849), (358, 50816), (361, 50804), (363, 50789), (364, 50786), (365, 50774), (369, 50750), (370, 50747), (378, 50699), (379, 50696), (381, 50675), (383, 50654),

Gene: JAMaL_53 Start: 54192, Stop: 52339, Start Num: 96

Candidate Starts for JAMaL_53:

(89, 54210), (Start: 96 @54192 has 2 MA's), (Start: 118 @54138 has 2 MA's), (120, 54111), (123, 54096), (141, 54024), (142, 54018), (153, 53955), (155, 53937), (157, 53928), (165, 53886), (167, 53877), (168, 53874), (172, 53853), (184, 53787), (191, 53745), (192, 53736), (193, 53733), (199, 53703), (214, 53610), (216, 53592), (218, 53574), (219, 53562), (224, 53538), (225, 53535), (242, 53424), (243, 53421), (244, 53418), (248, 53391), (252, 53355), (282, 53130), (283, 53127), (287, 53091), (290, 53061), (291, 53058), (292, 53034), (302, 52926), (303, 52920), (305, 52911), (313, 52812), (314, 52809), (317, 52794), (326, 52716), (327, 52704), (329, 52683), (331, 52674), (337, 52644), (342, 52614), (348, 52587), (351, 52554), (355, 52530), (361, 52491), (363, 52476), (364, 52473), (365, 52461), (369, 52437), (376, 52395), (378, 52389), (381, 52365),

Gene: JDog_59 Start: 54563, Stop: 52704, Start Num: 105

Candidate Starts for JDog_59:

(Start: 97 @54587 has 5 MA's), (Start: 105 @54563 has 315 MA's), (Start: 116 @54539 has 6 MA's), (Start: 118 @54533 has 2 MA's), (123, 54491), (125, 54470), (149, 54356), (151, 54350), (155, 54320), (167, 54260), (171, 54239), (180, 54185), (183, 54173), (186, 54155), (188, 54143), (207, 54038), (214, 53981), (218, 53945), (219, 53933), (224, 53909), (226, 53897), (229, 53879), (231, 53861), (233, 53843), (241, 53804), (242, 53795), (243, 53792), (275, 53534), (289, 53432), (292, 53399), (295, 53378), (303, 53285), (305, 53276), (309, 53213), (313, 53177), (314, 53174), (317, 53159), (326, 53081), (327, 53069), (329, 53048), (337, 53009), (351, 52919), (354, 52901), (355, 52895), (357, 52880), (361, 52856), (363, 52841), (364, 52838), (365, 52826), (369, 52802), (378, 52754), (381, 52730),

Gene: JacAttac_62 Start: 54010, Stop: 52151, Start Num: 105

Candidate Starts for JacAttac_62:

(Start: 97 @54034 has 5 MA's), (Start: 105 @54010 has 315 MA's), (Start: 116 @53986 has 6 MA's), (Start: 118 @53980 has 2 MA's), (123, 53938), (125, 53917), (149, 53803), (151, 53797), (155, 53767), (167, 53707), (171, 53686), (180, 53632), (183, 53620), (186, 53602), (188, 53590), (207, 53485), (214, 53428), (218, 53392), (219, 53380), (224, 53356), (226, 53344), (229, 53326), (231, 53308), (233, 53290), (241, 53251), (242, 53242), (243, 53239), (244, 53236), (289, 52879), (292, 52846), (295, 52825), (303, 52732), (305, 52723), (309, 52660), (313, 52624), (314, 52621), (317, 52606), (326, 52528), (327, 52516), (329, 52495), (337, 52456), (351, 52366), (354, 52348), (355, 52342), (357, 52327), (361, 52303), (363, 52288), (364, 52285), (365, 52273), (369, 52249), (378, 52201),

(381, 52177),

Gene: Jackstina_54 Start: 53566, Stop: 51749, Start Num: 117

Candidate Starts for Jackstina_54:

(Start: 117 @53566 has 46 MA's), (120, 53536), (159, 53356), (185, 53203), (187, 53191), (192, 53161), (194, 53155), (207, 53092), (208, 53086), (214, 53035), (218, 52999), (226, 52951), (243, 52846), (257, 52750), (265, 52699), (282, 52555), (287, 52516), (290, 52486), (292, 52459), (294, 52447), (302, 52351), (303, 52345), (305, 52336), (306, 52324), (311, 52252), (313, 52222), (317, 52204), (318, 52195), (326, 52126), (327, 52114), (329, 52093), (342, 52024), (345, 52009), (350, 51985), (351, 51964), (355, 51940), (361, 51901), (364, 51883), (365, 51871), (367, 51859), (369, 51847), (376, 51805), (381, 51775),

Gene: JaguarMi_55 Start: 55103, Stop: 53277, Start Num: 101

Candidate Starts for JaguarMi_55:

(Start: 97 @55121 has 5 MA's), (Start: 101 @55103 has 17 MA's), (Start: 118 @55076 has 2 MA's), (120, 55049), (123, 55034), (125, 55013), (146, 54926), (149, 54908), (166, 54821), (171, 54794), (173, 54779), (186, 54713), (191, 54683), (192, 54674), (193, 54671), (194, 54668), (199, 54641), (214, 54548), (216, 54530), (218, 54512), (219, 54500), (225, 54473), (233, 54410), (241, 54371), (242, 54362), (243, 54359), (248, 54329), (252, 54293), (282, 54068), (283, 54065), (287, 54029), (289, 54005), (292, 53972), (302, 53864), (303, 53858), (305, 53849), (313, 53750), (314, 53747), (317, 53732), (326, 53654), (327, 53642), (329, 53621), (331, 53612), (337, 53582), (342, 53552), (348, 53525), (351, 53492), (354, 53474), (355, 53468), (361, 53429), (364, 53411), (365, 53399), (369, 53375), (376, 53333), (378, 53327), (381, 53303),

Gene: JakeO_61 Start: 54286, Stop: 52427, Start Num: 105

Candidate Starts for JakeO_61:

(Start: 97 @54310 has 5 MA's), (Start: 105 @54286 has 315 MA's), (Start: 116 @54262 has 6 MA's), (Start: 118 @54256 has 2 MA's), (123, 54214), (125, 54193), (149, 54079), (151, 54073), (155, 54043), (167, 53983), (171, 53962), (180, 53908), (183, 53896), (186, 53878), (188, 53866), (207, 53761), (214, 53704), (218, 53668), (219, 53656), (224, 53632), (226, 53620), (229, 53602), (231, 53584), (233, 53566), (241, 53527), (242, 53518), (243, 53515), (244, 53512), (289, 53155), (292, 53122), (295, 53101), (303, 53008), (305, 52999), (309, 52936), (313, 52900), (314, 52897), (317, 52882), (326, 52804), (327, 52792), (329, 52771), (337, 52732), (351, 52642), (354, 52624), (355, 52618), (357, 52603), (361, 52579), (363, 52564), (364, 52561), (365, 52549), (369, 52525), (372, 52504), (378, 52477), (381, 52453), (382, 52438),

Gene: JangoPhett_60 Start: 54351, Stop: 52492, Start Num: 105

Candidate Starts for JangoPhett_60:

(Start: 97 @54375 has 5 MA's), (Start: 105 @54351 has 315 MA's), (Start: 116 @54327 has 6 MA's), (Start: 118 @54321 has 2 MA's), (123, 54279), (125, 54258), (149, 54144), (151, 54138), (155, 54108), (167, 54048), (171, 54027), (180, 53973), (183, 53961), (186, 53943), (188, 53931), (207, 53826), (214, 53769), (218, 53733), (219, 53721), (224, 53697), (226, 53685), (229, 53667), (231, 53649), (233, 53631), (241, 53592), (242, 53583), (243, 53580), (244, 53577), (289, 53220), (292, 53187), (295, 53166), (303, 53073), (305, 53064), (309, 53001), (313, 52965), (314, 52962), (317, 52947), (326, 52869), (327, 52857), (329, 52836), (337, 52797), (351, 52707), (354, 52689), (355, 52683), (357, 52668), (361, 52644), (363, 52629), (364, 52626), (365, 52614), (369, 52590), (378, 52542), (381, 52518),

Gene: Jesabah_62 Start: 55148, Stop: 53289, Start Num: 105

Candidate Starts for Jesabah_62:

(Start: 97 @55172 has 5 MA's), (Start: 105 @55148 has 315 MA's), (Start: 116 @55124 has 6 MA's), (Start: 118 @55118 has 2 MA's), (123, 55076), (125, 55055), (149, 54941), (151, 54935), (155, 54905), (167, 54845), (171, 54824), (180, 54770), (183, 54758), (186, 54740), (188, 54728), (207, 54623),

(214, 54566), (218, 54530), (219, 54518), (225, 54491), (229, 54464), (231, 54446), (233, 54428), (241, 54389), (242, 54380), (243, 54377), (275, 54119), (289, 54017), (292, 53984), (295, 53963), (303, 53870), (305, 53861), (309, 53798), (313, 53762), (314, 53759), (317, 53744), (326, 53666), (327, 53654), (329, 53633), (337, 53594), (351, 53504), (354, 53486), (355, 53480), (357, 53465), (361, 53441), (363, 53426), (364, 53423), (365, 53411), (369, 53387), (378, 53339), (381, 53315),

Gene: Jillium_60 Start: 54555, Stop: 52696, Start Num: 105

Candidate Starts for Jillium_60:

(Start: 97 @54579 has 5 MA's), (Start: 105 @54555 has 315 MA's), (Start: 116 @54531 has 6 MA's), (Start: 118 @54525 has 2 MA's), (123, 54483), (125, 54462), (149, 54348), (151, 54342), (155, 54312), (167, 54252), (171, 54231), (180, 54177), (183, 54165), (186, 54147), (188, 54135), (207, 54030), (214, 53973), (218, 53937), (219, 53925), (224, 53901), (226, 53889), (229, 53871), (231, 53853), (233, 53835), (241, 53796), (242, 53787), (243, 53784), (244, 53781), (289, 53424), (292, 53391), (295, 53370), (303, 53277), (305, 53268), (309, 53205), (313, 53169), (314, 53166), (317, 53151), (326, 53073), (327, 53061), (329, 53040), (337, 53001), (351, 52911), (354, 52893), (355, 52887), (357, 52872), (361, 52848), (363, 52833), (364, 52830), (365, 52818), (369, 52794), (378, 52746), (381, 52722),

Gene: Jiminy_61 Start: 54122, Stop: 52263, Start Num: 105

Candidate Starts for Jiminy_61:

(Start: 97 @54146 has 5 MA's), (Start: 105 @54122 has 315 MA's), (Start: 116 @54098 has 6 MA's), (Start: 118 @54092 has 2 MA's), (123, 54050), (125, 54029), (149, 53915), (151, 53909), (155, 53879), (167, 53819), (171, 53798), (180, 53744), (183, 53732), (186, 53714), (188, 53702), (207, 53597), (214, 53540), (218, 53504), (219, 53492), (224, 53468), (226, 53456), (229, 53438), (231, 53420), (233, 53402), (241, 53363), (242, 53354), (243, 53351), (244, 53348), (275, 53093), (289, 52991), (292, 52958), (295, 52937), (303, 52844), (305, 52835), (309, 52772), (313, 52736), (314, 52733), (317, 52718), (326, 52640), (327, 52628), (329, 52607), (337, 52568), (351, 52478), (354, 52460), (355, 52454), (357, 52439), (361, 52415), (363, 52400), (364, 52397), (365, 52385), (369, 52361), (372, 52340), (378, 52313), (381, 52289), (382, 52274),

Gene: Jiraiya_61 Start: 54320, Stop: 52461, Start Num: 105

Candidate Starts for Jiraiya_61:

(Start: 97 @54344 has 5 MA's), (Start: 105 @54320 has 315 MA's), (Start: 116 @54296 has 6 MA's), (Start: 118 @54290 has 2 MA's), (123, 54248), (125, 54227), (149, 54113), (151, 54107), (155, 54077), (167, 54017), (171, 53996), (180, 53942), (183, 53930), (186, 53912), (188, 53900), (207, 53795), (214, 53738), (218, 53702), (219, 53690), (225, 53663), (231, 53618), (241, 53561), (242, 53552), (243, 53549), (289, 53189), (292, 53156), (295, 53135), (303, 53042), (305, 53033), (309, 52970), (313, 52934), (314, 52931), (317, 52916), (326, 52838), (327, 52826), (329, 52805), (337, 52766), (351, 52676), (354, 52658), (355, 52652), (357, 52637), (361, 52613), (363, 52598), (364, 52595), (365, 52583), (369, 52559), (378, 52511), (381, 52487), (382, 52472),

Gene: Jolie1_052 Start: 52581, Stop: 50743, Start Num: 103

Candidate Starts for Jolie1_052:

(43, 52887), (55, 52845), (58, 52830), (Start: 103 @52581 has 5 MA's), (120, 52524), (123, 52509), (139, 52443), (140, 52440), (167, 52287), (168, 52284), (172, 52263), (180, 52212), (181, 52206), (185, 52188), (192, 52146), (193, 52143), (199, 52113), (214, 52020), (218, 51984), (219, 51972), (229, 51918), (237, 51858), (242, 51834), (243, 51831), (252, 51765), (283, 51531), (284, 51513), (287, 51495), (292, 51438), (302, 51330), (303, 51324), (305, 51315), (309, 51252), (313, 51216), (314, 51213), (317, 51198), (326, 51120), (327, 51108), (329, 51087), (330, 51081), (337, 51048), (342, 51018), (345, 51003), (349, 50982), (351, 50958), (355, 50934), (361, 50895), (362, 50883), (363, 50880), (364, 50877), (365, 50865), (369, 50841), (381, 50769), (383, 50748),

Gene: JoyceMaria_53 Start: 53933, Stop: 52110, Start Num: 101

Candidate Starts for JoyceMaria_53:

(Start: 97 @53951 has 5 MA's), (Start: 101 @53933 has 17 MA's), (Start: 118 @53909 has 2 MA's), (120, 53882), (123, 53867), (125, 53846), (146, 53759), (166, 53654), (171, 53627), (173, 53612), (186, 53546), (191, 53516), (192, 53507), (193, 53504), (194, 53501), (199, 53474), (214, 53381), (216, 53363), (218, 53345), (219, 53333), (225, 53306), (233, 53243), (241, 53204), (242, 53195), (243, 53192), (248, 53162), (252, 53126), (282, 52901), (283, 52898), (287, 52862), (289, 52838), (292, 52805), (302, 52697), (303, 52691), (305, 52682), (313, 52583), (314, 52580), (317, 52565), (326, 52487), (327, 52475), (329, 52454), (331, 52445), (337, 52415), (348, 52358), (351, 52325), (355, 52301), (361, 52262), (364, 52244), (365, 52232), (369, 52208), (376, 52166), (378, 52160), (381, 52136),

Gene: KLUcky39_59 Start: 53611, Stop: 51752, Start Num: 105

Candidate Starts for KLUcky39_59:

(Start: 97 @53635 has 5 MA's), (Start: 105 @53611 has 315 MA's), (Start: 116 @53587 has 6 MA's), (Start: 118 @53581 has 2 MA's), (123, 53539), (125, 53518), (149, 53404), (151, 53398), (155, 53368), (167, 53308), (171, 53287), (180, 53233), (183, 53221), (186, 53203), (188, 53191), (207, 53086), (214, 53029), (218, 52993), (219, 52981), (225, 52954), (229, 52927), (231, 52909), (233, 52891), (241, 52852), (242, 52843), (243, 52840), (275, 52582), (289, 52480), (292, 52447), (295, 52426), (303, 52333), (305, 52324), (309, 52261), (313, 52225), (314, 52222), (317, 52207), (326, 52129), (327, 52117), (329, 52096), (337, 52057), (351, 51967), (354, 51949), (355, 51943), (357, 51928), (361, 51904), (363, 51889), (364, 51886), (365, 51874), (369, 51850), (378, 51802), (381, 51778),

Gene: Kahve_60 Start: 54557, Stop: 52698, Start Num: 105

Candidate Starts for Kahve_60:

(Start: 97 @54581 has 5 MA's), (Start: 105 @54557 has 315 MA's), (Start: 116 @54533 has 6 MA's), (Start: 118 @54527 has 2 MA's), (123, 54485), (125, 54464), (149, 54350), (151, 54344), (155, 54314), (167, 54254), (171, 54233), (180, 54179), (183, 54167), (186, 54149), (188, 54137), (207, 54032), (214, 53975), (218, 53939), (219, 53927), (225, 53900), (229, 53873), (231, 53855), (233, 53837), (241, 53798), (242, 53789), (243, 53786), (275, 53528), (289, 53426), (292, 53393), (295, 53372), (303, 53279), (305, 53270), (309, 53207), (313, 53171), (314, 53168), (317, 53153), (326, 53075), (327, 53063), (329, 53042), (337, 53003), (351, 52913), (354, 52895), (355, 52889), (357, 52874), (361, 52850), (363, 52835), (364, 52832), (365, 52820), (369, 52796), (372, 52775), (378, 52748), (381, 52724),

Gene: Kailash_61 Start: 54637, Stop: 52778, Start Num: 105

Candidate Starts for Kailash_61:

(Start: 97 @54661 has 5 MA's), (Start: 105 @54637 has 315 MA's), (Start: 116 @54613 has 6 MA's), (Start: 118 @54607 has 2 MA's), (123, 54565), (125, 54544), (149, 54430), (151, 54424), (155, 54394), (167, 54334), (171, 54313), (180, 54259), (183, 54247), (186, 54229), (188, 54217), (207, 54112), (214, 54055), (218, 54019), (219, 54007), (224, 53983), (226, 53971), (229, 53953), (231, 53935), (233, 53917), (241, 53878), (242, 53869), (243, 53866), (244, 53863), (289, 53506), (292, 53473), (295, 53452), (303, 53359), (305, 53350), (309, 53287), (313, 53251), (314, 53248), (317, 53233), (326, 53155), (327, 53143), (329, 53122), (337, 53083), (351, 52993), (354, 52975), (355, 52969), (357, 52954), (361, 52930), (363, 52915), (364, 52912), (365, 52900), (369, 52876), (378, 52828), (381, 52804),

Gene: Kaleb_57 Start: 52637, Stop: 50808, Start Num: 105

Candidate Starts for Kaleb_57:

(Start: 105 @52637 has 315 MA's), (Start: 118 @52610 has 2 MA's), (121, 52580), (123, 52568), (127, 52541), (128, 52538), (132, 52529), (141, 52511), (157, 52415), (167, 52364), (172, 52340), (199, 52178), (205, 52154), (207, 52142), (214, 52085), (218, 52049), (219, 52037), (224, 52013), (235, 51929), (242, 51899), (243, 51896), (248, 51866), (268, 51722), (274, 51656), (282, 51605), (284, 51584), (287, 51566), (292, 51509), (301, 51425), (303, 51395), (305, 51386), (309, 51320), (312,

51293), (313, 51284), (316, 51275), (317, 51266), (320, 51242), (326, 51188), (327, 51176), (329, 51155), (342, 51086), (351, 51026), (354, 51008), (358, 50975), (361, 50963), (363, 50948), (364, 50945), (365, 50933), (369, 50909), (370, 50906), (378, 50858), (379, 50855), (381, 50834), (383, 50813),

Gene: Kamiyu_58 Start: 53644, Stop: 51827, Start Num: 117

Candidate Starts for Kamiyu_58:

(75, 53827), (Start: 117 @53644 has 46 MA's), (120, 53614), (159, 53434), (185, 53281), (187, 53269), (192, 53239), (194, 53233), (207, 53170), (208, 53164), (214, 53113), (218, 53077), (226, 53029), (243, 52924), (257, 52828), (265, 52777), (282, 52633), (287, 52594), (290, 52564), (292, 52537), (294, 52525), (302, 52429), (303, 52423), (305, 52414), (306, 52402), (311, 52330), (313, 52300), (317, 52282), (318, 52273), (326, 52204), (327, 52192), (329, 52171), (342, 52102), (345, 52087), (350, 52063), (351, 52042), (355, 52018), (361, 51979), (364, 51961), (365, 51949), (367, 51937), (369, 51925), (376, 51883), (381, 51853),

Gene: KarasumaRum_58 Start: 54598, Stop: 52751, Start Num: 97

Candidate Starts for KarasumaRum_58:

(15, 55093), (16, 55087), (19, 55036), (22, 55018), (28, 54961), (60, 54817), (82, 54664), (Start: 97 @54598 has 5 MA's), (Start: 117 @54550 has 46 MA's), (120, 54523), (130, 54472), (141, 54451), (149, 54397), (158, 54352), (168, 54301), (186, 54202), (193, 54160), (201, 54124), (207, 54094), (218, 54001), (219, 53989), (224, 53965), (226, 53953), (229, 53935), (238, 53872), (243, 53848), (259, 53743), (271, 53620), (283, 53554), (284, 53536), (290, 53488), (292, 53461), (302, 53353), (303, 53347), (305, 53338), (307, 53317), (311, 53254), (314, 53221), (317, 53206), (323, 53146), (326, 53128), (327, 53116), (329, 53095), (331, 53086), (332, 53083), (334, 53071), (351, 52966), (354, 52948), (355, 52942), (361, 52903), (363, 52888), (364, 52885), (367, 52861), (369, 52849), (370, 52846), (379, 52798), (381, 52777),

Gene: Katniss_61 Start: 53995, Stop: 52136, Start Num: 105

Candidate Starts for Katniss_61:

(Start: 97 @54019 has 5 MA's), (Start: 105 @53995 has 315 MA's), (Start: 116 @53971 has 6 MA's), (Start: 118 @53965 has 2 MA's), (123, 53923), (125, 53902), (149, 53788), (151, 53782), (155, 53752), (167, 53692), (171, 53671), (180, 53617), (183, 53605), (186, 53587), (188, 53575), (207, 53470), (214, 53413), (218, 53377), (219, 53365), (225, 53338), (229, 53311), (231, 53293), (233, 53275), (241, 53236), (242, 53227), (243, 53224), (244, 53221), (275, 52966), (289, 52864), (292, 52831), (295, 52810), (303, 52717), (305, 52708), (309, 52645), (313, 52609), (314, 52606), (317, 52591), (326, 52513), (327, 52501), (329, 52480), (337, 52441), (351, 52351), (354, 52333), (355, 52327), (357, 52312), (361, 52288), (363, 52273), (364, 52270), (365, 52258), (369, 52234), (378, 52186), (381, 52162),

Gene: KayaCho_51 Start: 52386, Stop: 50545, Start Num: 103

Candidate Starts for KayaCho_51:

(79, 52506), (Start: 103 @52386 has 5 MA's), (120, 52329), (123, 52314), (157, 52140), (165, 52098), (167, 52089), (168, 52086), (172, 52065), (180, 52014), (181, 52008), (185, 51990), (191, 51957), (192, 51948), (193, 51945), (194, 51942), (199, 51915), (214, 51822), (218, 51786), (219, 51774), (242, 51636), (243, 51633), (256, 51543), (272, 51402), (280, 51348), (283, 51333), (284, 51315), (287, 51297), (289, 51273), (292, 51240), (302, 51132), (303, 51126), (305, 51117), (309, 51054), (310, 51039), (312, 51027), (313, 51018), (317, 51000), (319, 50985), (326, 50922), (327, 50910), (329, 50889), (330, 50883), (337, 50850), (342, 50820), (345, 50805), (351, 50760), (354, 50742), (355, 50736), (361, 50697), (362, 50685), (363, 50682), (364, 50679), (365, 50667), (369, 50643), (381, 50571),

Gene: Keitherie_62 Start: 54618, Stop: 52759, Start Num: 105

Candidate Starts for Keitherie_62:

(Start: 97 @54642 has 5 MA's), (Start: 105 @54618 has 315 MA's), (Start: 116 @54594 has 6 MA's), (Start: 118 @54588 has 2 MA's), (123, 54546), (125, 54525), (149, 54411), (151, 54405), (155, 54375), (167, 54315), (171, 54294), (180, 54240), (183, 54228), (186, 54210), (188, 54198), (207, 54093), (214, 54036), (218, 54000), (219, 53988), (224, 53964), (226, 53952), (229, 53934), (231, 53916), (233, 53898), (241, 53859), (242, 53850), (243, 53847), (244, 53844), (289, 53487), (292, 53454), (295, 53433), (303, 53340), (305, 53331), (309, 53268), (313, 53232), (314, 53229), (317, 53214), (326, 53136), (327, 53124), (329, 53103), (337, 53064), (351, 52974), (354, 52956), (355, 52950), (357, 52935), (361, 52911), (363, 52896), (364, 52893), (365, 52881), (369, 52857), (378, 52809), (381, 52785),

Gene: Khan1_61 Start: 54513, Stop: 52654, Start Num: 105

Candidate Starts for Khan1_61:

(Start: 97 @54537 has 5 MA's), (Start: 105 @54513 has 315 MA's), (Start: 116 @54489 has 6 MA's), (Start: 118 @54483 has 2 MA's), (123, 54441), (125, 54420), (149, 54306), (151, 54300), (155, 54270), (167, 54210), (171, 54189), (180, 54135), (183, 54123), (186, 54105), (188, 54093), (207, 53988), (214, 53931), (218, 53895), (219, 53883), (224, 53859), (226, 53847), (229, 53829), (231, 53811), (233, 53793), (241, 53754), (242, 53745), (243, 53742), (244, 53739), (275, 53484), (289, 53382), (292, 53349), (295, 53328), (303, 53235), (305, 53226), (309, 53163), (313, 53127), (314, 53124), (317, 53109), (326, 53031), (327, 53019), (329, 52998), (337, 52959), (351, 52869), (354, 52851), (355, 52845), (357, 52830), (361, 52806), (363, 52791), (364, 52788), (365, 52776), (369, 52752), (372, 52731), (378, 52704), (381, 52680),

Gene: Kheth_57 Start: 52520, Stop: 50691, Start Num: 105

Candidate Starts for Kheth_57:

(Start: 105 @52520 has 315 MA's), (Start: 118 @52493 has 2 MA's), (121, 52463), (123, 52451), (127, 52424), (128, 52421), (132, 52412), (141, 52394), (157, 52298), (167, 52247), (172, 52223), (175, 52199), (199, 52061), (205, 52037), (207, 52025), (214, 51968), (218, 51932), (219, 51920), (224, 51896), (235, 51812), (242, 51782), (243, 51779), (248, 51749), (268, 51605), (274, 51539), (280, 51500), (282, 51488), (284, 51467), (287, 51449), (292, 51392), (301, 51308), (303, 51278), (305, 51269), (309, 51203), (312, 51176), (313, 51167), (317, 51149), (320, 51125), (326, 51071), (327, 51059), (329, 51038), (342, 50969), (351, 50909), (354, 50891), (358, 50858), (361, 50846), (363, 50831), (364, 50828), (365, 50816), (369, 50792), (370, 50789), (378, 50741), (379, 50738), (381, 50717), (383, 50696),

Gene: Kikipoo_62 Start: 54547, Stop: 52688, Start Num: 105

Candidate Starts for Kikipoo_62:

(Start: 97 @54571 has 5 MA's), (Start: 105 @54547 has 315 MA's), (Start: 116 @54523 has 6 MA's), (Start: 118 @54517 has 2 MA's), (123, 54475), (125, 54454), (149, 54340), (151, 54334), (155, 54304), (167, 54244), (171, 54223), (180, 54169), (183, 54157), (186, 54139), (188, 54127), (207, 54022), (214, 53965), (218, 53929), (219, 53917), (221, 53908), (225, 53890), (229, 53863), (231, 53845), (233, 53827), (241, 53788), (242, 53779), (243, 53776), (244, 53773), (275, 53518), (289, 53416), (292, 53383), (295, 53362), (303, 53269), (305, 53260), (309, 53197), (313, 53161), (314, 53158), (317, 53143), (326, 53065), (327, 53053), (329, 53032), (337, 52993), (351, 52903), (354, 52885), (355, 52879), (357, 52864), (361, 52840), (363, 52825), (364, 52822), (365, 52810), (369, 52786), (378, 52738), (381, 52714),

Gene: Kimbrough_61 Start: 54598, Stop: 52739, Start Num: 105

Candidate Starts for Kimbrough_61:

(Start: 97 @54622 has 5 MA's), (Start: 105 @54598 has 315 MA's), (Start: 116 @54574 has 6 MA's), (Start: 118 @54568 has 2 MA's), (123, 54526), (125, 54505), (149, 54391), (151, 54385), (155, 54355), (167, 54295), (171, 54274), (180, 54220), (183, 54208), (186, 54190), (188, 54178), (207, 54073), (214, 54016), (218, 53980), (219, 53968), (224, 53944), (226, 53932), (229, 53914), (231, 53896), (233, 53878), (241, 53839), (242, 53830), (243, 53827), (244, 53824), (289, 53467), (292, 53434),

(295, 53413), (303, 53320), (305, 53311), (309, 53248), (313, 53212), (314, 53209), (317, 53194), (326, 53116), (327, 53104), (329, 53083), (337, 53044), (351, 52954), (354, 52936), (355, 52930), (357, 52915), (361, 52891), (363, 52876), (364, 52873), (365, 52861), (369, 52837), (378, 52789), (381, 52765),

Gene: KingTut_53 Start: 50762, Stop: 48903, Start Num: 105

Candidate Starts for KingTut_53:

(Start: 97 @50786 has 5 MA's), (Start: 105 @50762 has 315 MA's), (Start: 116 @50738 has 6 MA's), (Start: 118 @50732 has 2 MA's), (123, 50690), (125, 50669), (149, 50555), (151, 50549), (155, 50519), (167, 50459), (171, 50438), (180, 50384), (183, 50372), (186, 50354), (188, 50342), (207, 50237), (214, 50180), (218, 50144), (219, 50132), (225, 50105), (229, 50078), (231, 50060), (233, 50042), (241, 50003), (242, 49994), (243, 49991), (275, 49733), (289, 49631), (292, 49598), (295, 49577), (303, 49484), (305, 49475), (309, 49412), (313, 49376), (314, 49373), (317, 49358), (326, 49280), (327, 49268), (329, 49247), (337, 49208), (351, 49118), (354, 49100), (355, 49094), (357, 49079), (361, 49055), (363, 49040), (364, 49037), (365, 49025), (369, 49001), (378, 48953), (381, 48929),

Gene: KingVeVeVe_59 Start: 53565, Stop: 51706, Start Num: 105

Candidate Starts for KingVeVeVe_59:

(Start: 97 @53589 has 5 MA's), (Start: 105 @53565 has 315 MA's), (Start: 116 @53541 has 6 MA's), (Start: 118 @53535 has 2 MA's), (120, 53508), (123, 53493), (125, 53472), (149, 53358), (151, 53352), (155, 53322), (167, 53262), (171, 53241), (180, 53187), (183, 53175), (186, 53157), (188, 53145), (207, 53040), (214, 52983), (218, 52947), (219, 52935), (225, 52908), (226, 52899), (231, 52863), (241, 52806), (242, 52797), (243, 52794), (244, 52791), (289, 52434), (292, 52401), (295, 52380), (303, 52287), (305, 52278), (309, 52215), (313, 52179), (314, 52176), (317, 52161), (326, 52083), (327, 52071), (329, 52050), (337, 52011), (351, 51921), (354, 51903), (355, 51897), (357, 51882), (361, 51858), (363, 51843), (364, 51840), (365, 51828), (369, 51804), (378, 51756), (381, 51732),

Gene: KlimbOn_60 Start: 54056, Stop: 52197, Start Num: 105

Candidate Starts for KlimbOn_60:

(Start: 97 @54080 has 5 MA's), (Start: 105 @54056 has 315 MA's), (Start: 116 @54032 has 6 MA's), (Start: 118 @54026 has 2 MA's), (123, 53984), (125, 53963), (149, 53849), (151, 53843), (155, 53813), (167, 53753), (171, 53732), (180, 53678), (183, 53666), (186, 53648), (188, 53636), (207, 53531), (214, 53474), (218, 53438), (219, 53426), (224, 53402), (226, 53390), (229, 53372), (231, 53354), (233, 53336), (241, 53297), (242, 53288), (243, 53285), (244, 53282), (275, 53027), (289, 52925), (292, 52892), (295, 52871), (303, 52778), (305, 52769), (309, 52706), (313, 52670), (314, 52667), (317, 52652), (326, 52574), (327, 52562), (329, 52541), (337, 52502), (351, 52412), (354, 52394), (355, 52388), (357, 52373), (361, 52349), (363, 52334), (364, 52331), (365, 52319), (369, 52295), (378, 52247), (381, 52223),

Gene: Kloppinator_61 Start: 54207, Stop: 52348, Start Num: 105

Candidate Starts for Kloppinator_61:

(Start: 97 @54231 has 5 MA's), (Start: 105 @54207 has 315 MA's), (Start: 116 @54183 has 6 MA's), (Start: 118 @54177 has 2 MA's), (123, 54135), (125, 54114), (149, 54000), (151, 53994), (155, 53964), (167, 53904), (171, 53883), (180, 53829), (183, 53817), (186, 53799), (187, 53790), (188, 53787), (207, 53682), (214, 53625), (218, 53589), (219, 53577), (224, 53553), (226, 53541), (229, 53523), (231, 53505), (233, 53487), (241, 53448), (242, 53439), (243, 53436), (244, 53433), (289, 53076), (292, 53043), (295, 53022), (303, 52929), (305, 52920), (309, 52857), (313, 52821), (314, 52818), (317, 52803), (326, 52725), (327, 52713), (329, 52692), (337, 52653), (351, 52563), (354, 52545), (355, 52539), (357, 52524), (361, 52500), (363, 52485), (364, 52482), (365, 52470), (369, 52446), (378, 52398), (381, 52374),

Gene: Knocker_59 Start: 55993, Stop: 54140, Start Num: 103

Candidate Starts for Knocker_59:

(Start: 103 @55993 has 5 MA's), (120, 55936), (128, 55891), (133, 55879), (134, 55876), (139, 55855), (157, 55750), (187, 55588), (188, 55585), (191, 55567), (207, 55480), (214, 55423), (215, 55411), (218, 55387), (219, 55375), (226, 55339), (227, 55333), (238, 55252), (242, 55231), (243, 55228), (247, 55204), (248, 55198), (260, 55114), (264, 55084), (270, 55018), (275, 54970), (279, 54949), (283, 54928), (287, 54892), (290, 54862), (292, 54835), (295, 54814), (302, 54727), (303, 54721), (305, 54712), (309, 54649), (313, 54613), (314, 54610), (315, 54607), (317, 54595), (320, 54571), (326, 54517), (327, 54505), (329, 54484), (331, 54475), (342, 54415), (350, 54376), (354, 54337), (355, 54331), (361, 54292), (362, 54280), (363, 54277), (364, 54274), (367, 54250), (369, 54238), (373, 54214), (378, 54190), (379, 54187), (381, 54166), (383, 54145),

Gene: Kolhan_57 Start: 52487, Stop: 50658, Start Num: 105

Candidate Starts for Kolhan_57:

(Start: 105 @52487 has 315 MA's), (Start: 118 @52460 has 2 MA's), (121, 52430), (123, 52418), (127, 52391), (128, 52388), (132, 52379), (141, 52361), (157, 52265), (167, 52214), (172, 52190), (175, 52166), (199, 52028), (205, 52004), (207, 51992), (214, 51935), (218, 51899), (219, 51887), (224, 51863), (235, 51779), (242, 51749), (243, 51746), (248, 51716), (268, 51572), (274, 51506), (282, 51455), (284, 51434), (287, 51416), (292, 51359), (301, 51275), (303, 51245), (305, 51236), (309, 51170), (312, 51143), (313, 51134), (317, 51116), (320, 51092), (326, 51038), (327, 51026), (329, 51005), (342, 50936), (351, 50876), (354, 50858), (358, 50825), (361, 50813), (363, 50798), (364, 50795), (365, 50783), (369, 50759), (370, 50756), (378, 50708), (379, 50705), (381, 50684), (383, 50663),

Gene: Kronus_58 Start: 54729, Stop: 52912, Start Num: 117

Candidate Starts for Kronus_58:

(75, 54912), (Start: 117 @54729 has 46 MA's), (120, 54699), (159, 54519), (178, 54414), (185, 54366), (187, 54354), (192, 54324), (194, 54318), (207, 54255), (208, 54249), (214, 54198), (218, 54162), (226, 54114), (243, 54009), (257, 53913), (265, 53862), (282, 53718), (287, 53679), (290, 53649), (292, 53622), (294, 53610), (302, 53514), (303, 53508), (305, 53499), (306, 53487), (311, 53415), (313, 53385), (317, 53367), (318, 53358), (326, 53289), (327, 53277), (329, 53256), (342, 53187), (345, 53172), (350, 53148), (351, 53127), (354, 53109), (355, 53103), (360, 53070), (361, 53064), (364, 53046), (365, 53034), (367, 53022), (369, 53010), (376, 52968), (381, 52938),

Gene: Kwadwo_59 Start: 54008, Stop: 52149, Start Num: 105

Candidate Starts for Kwadwo_59:

(Start: 97 @54032 has 5 MA's), (Start: 105 @54008 has 315 MA's), (Start: 116 @53984 has 6 MA's), (Start: 118 @53978 has 2 MA's), (123, 53936), (125, 53915), (149, 53801), (151, 53795), (155, 53765), (167, 53705), (171, 53684), (180, 53630), (183, 53618), (186, 53600), (188, 53588), (207, 53483), (214, 53426), (218, 53390), (219, 53378), (225, 53351), (231, 53306), (241, 53249), (242, 53240), (243, 53237), (275, 52979), (289, 52877), (292, 52844), (295, 52823), (303, 52730), (305, 52721), (309, 52658), (313, 52622), (314, 52619), (317, 52604), (326, 52526), (327, 52514), (329, 52493), (337, 52454), (351, 52364), (354, 52346), (355, 52340), (357, 52325), (361, 52301), (363, 52286), (364, 52283), (365, 52271), (369, 52247), (378, 52199), (381, 52175),

Gene: Kwksand96_61 Start: 54137, Stop: 52278, Start Num: 105

Candidate Starts for Kwksand96_61:

(Start: 97 @54161 has 5 MA's), (Start: 105 @54137 has 315 MA's), (Start: 116 @54113 has 6 MA's), (Start: 118 @54107 has 2 MA's), (123, 54065), (125, 54044), (149, 53930), (151, 53924), (155, 53894), (167, 53834), (171, 53813), (180, 53759), (183, 53747), (186, 53729), (188, 53717), (207, 53612), (214, 53555), (218, 53519), (219, 53507), (225, 53480), (231, 53435), (241, 53378), (242, 53369), (243, 53366), (289, 53006), (292, 52973), (295, 52952), (303, 52859), (305, 52850), (309, 52787), (313, 52751), (314, 52748), (317, 52733), (326, 52655), (327, 52643), (329, 52622), (337, 52583), (351, 52493), (354, 52475), (355, 52469), (357, 52454), (361, 52430), (363, 52415), (364, 52412), (365, 52400), (369, 52376), (378, 52328), (381, 52304), (382, 52289),

Gene: Labeouficaum_61 Start: 54131, Stop: 52272, Start Num: 105

Candidate Starts for Labeouficaum_61:

(Start: 97 @54155 has 5 MA's), (Start: 105 @54131 has 315 MA's), (Start: 116 @54107 has 6 MA's),
(Start: 118 @54101 has 2 MA's), (123, 54059), (125, 54038), (149, 53924), (151, 53918), (155, 53888),
(167, 53828), (171, 53807), (180, 53753), (183, 53741), (186, 53723), (188, 53711), (207, 53606),
(214, 53549), (218, 53513), (219, 53501), (224, 53477), (226, 53465), (229, 53447), (231, 53429),
(233, 53411), (241, 53372), (242, 53363), (243, 53360), (244, 53357), (275, 53102), (289, 53000),
(292, 52967), (295, 52946), (303, 52853), (305, 52844), (309, 52781), (313, 52745), (314, 52742),
(317, 52727), (326, 52649), (327, 52637), (329, 52616), (337, 52577), (351, 52487), (354, 52469),
(355, 52463), (357, 52448), (361, 52424), (363, 52409), (364, 52406), (365, 52394), (369, 52370),
(372, 52349), (378, 52322), (381, 52298), (382, 52283),

Gene: Lambano_52 Start: 52998, Stop: 51175, Start Num: 101

Candidate Starts for Lambano_52:

(Start: 97 @53016 has 5 MA's), (Start: 101 @52998 has 17 MA's), (Start: 118 @52974 has 2 MA's),
(120, 52947), (123, 52932), (125, 52911), (146, 52824), (166, 52719), (173, 52677), (186, 52611),
(191, 52581), (192, 52572), (193, 52569), (194, 52566), (199, 52539), (214, 52446), (216, 52428),
(218, 52410), (219, 52398), (223, 52383), (225, 52371), (242, 52260), (243, 52257), (248, 52227),
(252, 52191), (282, 51966), (283, 51963), (287, 51927), (289, 51903), (292, 51870), (302, 51762),
(303, 51756), (304, 51750), (305, 51747), (313, 51648), (314, 51645), (317, 51630), (326, 51552),
(327, 51540), (329, 51519), (331, 51510), (337, 51480), (341, 51456), (348, 51423), (351, 51390),
(354, 51372), (355, 51366), (361, 51327), (364, 51309), (365, 51297), (369, 51273), (376, 51231),
(378, 51225), (381, 51201),

Gene: Lars_57 Start: 52585, Stop: 50756, Start Num: 105

Candidate Starts for Lars_57:

(Start: 105 @52585 has 315 MA's), (Start: 118 @52558 has 2 MA's), (121, 52528), (123, 52516), (127,
52489), (128, 52486), (132, 52477), (141, 52459), (157, 52363), (167, 52312), (172, 52288), (175,
52264), (199, 52126), (205, 52102), (207, 52090), (214, 52033), (218, 51997), (219, 51985), (224,
51961), (234, 51883), (235, 51877), (238, 51868), (242, 51847), (243, 51844), (248, 51814), (268,
51670), (274, 51604), (282, 51553), (284, 51532), (287, 51514), (292, 51457), (301, 51373), (303,
51343), (305, 51334), (309, 51268), (312, 51241), (313, 51232), (317, 51214), (320, 51190), (326,
51136), (327, 51124), (329, 51103), (342, 51034), (351, 50974), (354, 50956), (358, 50923), (361,
50911), (363, 50896), (364, 50893), (365, 50881), (369, 50857), (370, 50854), (378, 50806), (379,
50803), (381, 50782), (383, 50761),

Gene: Larson_64 Start: 54348, Stop: 52489, Start Num: 105

Candidate Starts for Larson_64:

(Start: 97 @54372 has 5 MA's), (Start: 105 @54348 has 315 MA's), (Start: 116 @54324 has 6 MA's),
(Start: 118 @54318 has 2 MA's), (123, 54276), (125, 54255), (149, 54141), (151, 54135), (155, 54105),
(167, 54045), (171, 54024), (180, 53970), (183, 53958), (186, 53940), (188, 53928), (207, 53823),
(214, 53766), (218, 53730), (219, 53718), (225, 53691), (231, 53646), (241, 53589), (242, 53580),
(243, 53577), (289, 53217), (292, 53184), (295, 53163), (303, 53070), (305, 53061), (309, 52998),
(313, 52962), (314, 52959), (317, 52944), (326, 52866), (327, 52854), (329, 52833), (337, 52794),
(351, 52704), (354, 52686), (355, 52680), (357, 52665), (361, 52641), (363, 52626), (364, 52623),
(365, 52611), (369, 52587), (378, 52539), (381, 52515),

Gene: LasagnaCat_62 Start: 54420, Stop: 52561, Start Num: 105

Candidate Starts for LasagnaCat_62:

(Start: 97 @54444 has 5 MA's), (Start: 105 @54420 has 315 MA's), (Start: 116 @54396 has 6 MA's),
(Start: 118 @54390 has 2 MA's), (123, 54348), (125, 54327), (149, 54213), (151, 54207), (155, 54177),
(167, 54117), (171, 54096), (180, 54042), (183, 54030), (186, 54012), (188, 54000), (207, 53895),

(214, 53838), (218, 53802), (219, 53790), (225, 53763), (229, 53736), (231, 53718), (233, 53700),
(241, 53661), (242, 53652), (243, 53649), (244, 53646), (289, 53289), (292, 53256), (295, 53235),
(303, 53142), (305, 53133), (309, 53070), (313, 53034), (314, 53031), (317, 53016), (326, 52938),
(327, 52926), (329, 52905), (337, 52866), (351, 52776), (354, 52758), (355, 52752), (357, 52737),
(361, 52713), (363, 52698), (364, 52695), (365, 52683), (369, 52659), (378, 52611), (381, 52587),

Gene: Lasso_61 Start: 54283, Stop: 52424, Start Num: 105

Candidate Starts for Lasso_61:

(Start: 97 @54307 has 5 MA's), (Start: 105 @54283 has 315 MA's), (Start: 116 @54259 has 6 MA's),
(Start: 118 @54253 has 2 MA's), (123, 54211), (125, 54190), (149, 54076), (151, 54070), (155, 54040),
(167, 53980), (171, 53959), (180, 53905), (183, 53893), (186, 53875), (188, 53863), (207, 53758),
(214, 53701), (218, 53665), (219, 53653), (225, 53626), (231, 53581), (241, 53524), (242, 53515),
(243, 53512), (289, 53152), (292, 53119), (295, 53098), (303, 53005), (305, 52996), (309, 52933),
(313, 52897), (314, 52894), (317, 52879), (326, 52801), (327, 52789), (329, 52768), (337, 52729),
(351, 52639), (354, 52621), (355, 52615), (357, 52600), (361, 52576), (363, 52561), (364, 52558),
(365, 52546), (369, 52522), (378, 52474), (381, 52450),

Gene: Laurie_57 Start: 52312, Stop: 50483, Start Num: 105

Candidate Starts for Laurie_57:

(Start: 105 @52312 has 315 MA's), (Start: 118 @52285 has 2 MA's), (121, 52255), (123, 52243), (127,
52216), (128, 52213), (132, 52204), (141, 52186), (157, 52090), (167, 52039), (172, 52015), (199,
51853), (204, 51838), (205, 51829), (207, 51817), (214, 51760), (218, 51724), (219, 51712), (224,
51688), (234, 51610), (235, 51604), (238, 51595), (242, 51574), (243, 51571), (248, 51541), (268,
51397), (274, 51331), (282, 51280), (284, 51259), (287, 51241), (292, 51184), (297, 51127), (301,
51100), (303, 51070), (305, 51061), (309, 50995), (312, 50968), (313, 50959), (317, 50941), (320,
50917), (326, 50863), (327, 50851), (329, 50830), (342, 50761), (351, 50701), (354, 50683), (358,
50650), (361, 50638), (363, 50623), (364, 50620), (365, 50608), (369, 50584), (370, 50581), (378,
50533), (379, 50530), (381, 50509), (383, 50488),

Gene: LeeLot_61 Start: 54638, Stop: 52779, Start Num: 105

Candidate Starts for LeeLot_61:

(Start: 97 @54662 has 5 MA's), (Start: 105 @54638 has 315 MA's), (Start: 116 @54614 has 6 MA's),
(Start: 118 @54608 has 2 MA's), (123, 54566), (125, 54545), (149, 54431), (151, 54425), (155, 54395),
(167, 54335), (171, 54314), (180, 54260), (183, 54248), (186, 54230), (188, 54218), (207, 54113),
(214, 54056), (218, 54020), (219, 54008), (225, 53981), (231, 53936), (241, 53879), (242, 53870),
(243, 53867), (289, 53507), (292, 53474), (295, 53453), (303, 53360), (305, 53351), (309, 53288),
(313, 53252), (314, 53249), (317, 53234), (326, 53156), (327, 53144), (329, 53123), (337, 53084),
(351, 52994), (354, 52976), (355, 52970), (357, 52955), (361, 52931), (363, 52916), (364, 52913),
(365, 52901), (369, 52877), (378, 52829), (381, 52805),

Gene: Lego3393_59 Start: 54589, Stop: 52730, Start Num: 105

Candidate Starts for Lego3393_59:

(Start: 97 @54613 has 5 MA's), (Start: 105 @54589 has 315 MA's), (Start: 116 @54565 has 6 MA's),
(Start: 118 @54559 has 2 MA's), (123, 54517), (125, 54496), (149, 54382), (151, 54376), (155, 54346),
(167, 54286), (171, 54265), (180, 54211), (183, 54199), (186, 54181), (188, 54169), (207, 54064),
(214, 54007), (218, 53971), (219, 53959), (225, 53932), (229, 53905), (231, 53887), (233, 53869),
(241, 53830), (242, 53821), (243, 53818), (289, 53458), (292, 53425), (295, 53404), (303, 53311),
(305, 53302), (309, 53239), (313, 53203), (314, 53200), (317, 53185), (326, 53107), (327, 53095),
(329, 53074), (337, 53035), (351, 52945), (354, 52927), (355, 52921), (357, 52906), (361, 52882),
(363, 52867), (364, 52864), (365, 52852), (369, 52828), (378, 52780), (381, 52756),

Gene: Legolas_62 Start: 54377, Stop: 52518, Start Num: 105

Candidate Starts for Legolas_62:

(Start: 97 @54401 has 5 MA's), (Start: 105 @54377 has 315 MA's), (Start: 116 @54353 has 6 MA's), (Start: 118 @54347 has 2 MA's), (123, 54305), (125, 54284), (149, 54170), (151, 54164), (155, 54134), (167, 54074), (171, 54053), (180, 53999), (183, 53987), (186, 53969), (188, 53957), (207, 53852), (214, 53795), (218, 53759), (219, 53747), (225, 53720), (231, 53675), (241, 53618), (242, 53609), (243, 53606), (289, 53246), (292, 53213), (295, 53192), (303, 53099), (305, 53090), (309, 53027), (313, 52991), (314, 52988), (317, 52973), (326, 52895), (327, 52883), (329, 52862), (337, 52823), (351, 52733), (354, 52715), (355, 52709), (357, 52694), (361, 52670), (363, 52655), (364, 52652), (365, 52640), (369, 52616), (378, 52568), (381, 52544),

Gene: Lehmann_62 Start: 54149, Stop: 52290, Start Num: 105

Candidate Starts for Lehmann_62:

(Start: 97 @54173 has 5 MA's), (Start: 105 @54149 has 315 MA's), (Start: 116 @54125 has 6 MA's), (Start: 118 @54119 has 2 MA's), (123, 54077), (125, 54056), (149, 53942), (151, 53936), (155, 53906), (167, 53846), (171, 53825), (180, 53771), (183, 53759), (188, 53729), (207, 53624), (214, 53567), (218, 53531), (219, 53519), (225, 53492), (226, 53483), (231, 53447), (233, 53429), (241, 53390), (242, 53381), (243, 53378), (289, 53018), (292, 52985), (295, 52964), (303, 52871), (305, 52862), (309, 52799), (313, 52763), (314, 52760), (317, 52745), (326, 52667), (327, 52655), (329, 52634), (337, 52595), (351, 52505), (354, 52487), (355, 52481), (357, 52466), (361, 52442), (363, 52427), (364, 52424), (365, 52412), (369, 52388), (378, 52340), (381, 52316),

Gene: LeiMonet_63 Start: 54494, Stop: 52635, Start Num: 105

Candidate Starts for LeiMonet_63:

(Start: 97 @54518 has 5 MA's), (Start: 105 @54494 has 315 MA's), (Start: 116 @54470 has 6 MA's), (Start: 118 @54464 has 2 MA's), (123, 54422), (125, 54401), (149, 54287), (151, 54281), (155, 54251), (167, 54191), (171, 54170), (180, 54116), (183, 54104), (186, 54086), (188, 54074), (207, 53969), (214, 53912), (218, 53876), (219, 53864), (224, 53840), (226, 53828), (229, 53810), (231, 53792), (233, 53774), (241, 53735), (242, 53726), (243, 53723), (244, 53720), (289, 53363), (292, 53330), (295, 53309), (303, 53216), (305, 53207), (309, 53144), (313, 53108), (314, 53105), (317, 53090), (326, 53012), (327, 53000), (329, 52979), (337, 52940), (351, 52850), (354, 52832), (355, 52826), (357, 52811), (361, 52787), (363, 52772), (364, 52769), (365, 52757), (369, 52733), (378, 52685), (381, 52661),

Gene: LemonSlice_61 Start: 53968, Stop: 52109, Start Num: 105

Candidate Starts for LemonSlice_61:

(Start: 97 @53992 has 5 MA's), (Start: 105 @53968 has 315 MA's), (Start: 116 @53944 has 6 MA's), (Start: 118 @53938 has 2 MA's), (123, 53896), (125, 53875), (149, 53761), (151, 53755), (155, 53725), (167, 53665), (171, 53644), (180, 53590), (183, 53578), (186, 53560), (188, 53548), (207, 53443), (214, 53386), (218, 53350), (219, 53338), (225, 53311), (229, 53284), (231, 53266), (233, 53248), (241, 53209), (242, 53200), (243, 53197), (275, 52939), (289, 52837), (292, 52804), (295, 52783), (303, 52690), (305, 52681), (309, 52618), (313, 52582), (314, 52579), (317, 52564), (326, 52486), (327, 52474), (329, 52453), (337, 52414), (351, 52324), (354, 52306), (355, 52300), (357, 52285), (361, 52261), (363, 52246), (364, 52243), (365, 52231), (369, 52207), (378, 52159), (381, 52135),

Gene: Lephleur_57 Start: 52497, Stop: 50668, Start Num: 105

Candidate Starts for Lephleur_57:

(Start: 105 @52497 has 315 MA's), (Start: 118 @52470 has 2 MA's), (121, 52440), (123, 52428), (127, 52401), (128, 52398), (132, 52389), (141, 52371), (157, 52275), (167, 52224), (172, 52200), (175, 52176), (199, 52038), (205, 52014), (207, 52002), (214, 51945), (218, 51909), (219, 51897), (224, 51873), (235, 51789), (242, 51759), (243, 51756), (248, 51726), (268, 51582), (274, 51516), (280, 51477), (282, 51465), (284, 51444), (287, 51426), (292, 51369), (301, 51285), (303, 51255), (305, 51246), (309, 51180), (312, 51153), (313, 51144), (317, 51126), (320, 51102), (326, 51048), (327, 51036), (329, 51015), (342, 50946), (351, 50886), (354, 50868), (358, 50835), (361, 50823), (363, 50808), (364, 50805), (365, 50793), (369, 50769), (370, 50766), (378, 50718), (379, 50715), (381,

50694), (383, 50673),

Gene: LestyG_57 Start: 53332, Stop: 51515, Start Num: 117

Candidate Starts for LestyG_57:

(34, 53716), (75, 53515), (Start: 117 @53332 has 46 MA's), (120, 53302), (159, 53122), (185, 52969), (187, 52957), (192, 52927), (194, 52921), (207, 52858), (208, 52852), (214, 52801), (218, 52765), (226, 52717), (243, 52612), (257, 52516), (265, 52465), (282, 52321), (287, 52282), (290, 52252), (292, 52225), (294, 52213), (302, 52117), (303, 52111), (305, 52102), (306, 52090), (311, 52018), (313, 51988), (317, 51970), (318, 51961), (326, 51892), (327, 51880), (329, 51859), (342, 51790), (345, 51775), (350, 51751), (351, 51730), (355, 51706), (361, 51667), (364, 51649), (365, 51637), (367, 51625), (369, 51613), (376, 51571), (381, 51541),

Gene: Ligma_51 Start: 45981, Stop: 44164, Start Num: 115

Candidate Starts for Ligma_51:

(44, 46302), (51, 46278), (Start: 115 @45981 has 14 MA's), (120, 45945), (123, 45930), (128, 45900), (154, 45774), (178, 45651), (180, 45636), (188, 45594), (207, 45498), (218, 45405), (238, 45276), (243, 45252), (284, 44940), (287, 44922), (292, 44865), (303, 44751), (305, 44742), (309, 44679), (314, 44640), (317, 44625), (326, 44547), (327, 44535), (329, 44514), (331, 44505), (348, 44418), (352, 44382), (353, 44370), (359, 44331), (361, 44322), (363, 44307), (369, 44262), (381, 44190),

Gene: LilMcDreamy_55 Start: 53828, Stop: 51987, Start Num: 99

Candidate Starts for LilMcDreamy_55:

(Start: 99 @53828 has 12 MA's), (Start: 117 @53786 has 46 MA's), (120, 53759), (157, 53591), (171, 53519), (175, 53492), (185, 53441), (193, 53396), (194, 53393), (201, 53360), (204, 53351), (207, 53330), (218, 53237), (219, 53225), (226, 53189), (233, 53135), (235, 53117), (241, 53096), (242, 53087), (243, 53084), (258, 52985), (265, 52937), (282, 52793), (287, 52754), (292, 52697), (295, 52676), (296, 52646), (303, 52583), (305, 52574), (307, 52553), (311, 52490), (313, 52460), (317, 52442), (326, 52364), (327, 52352), (329, 52331), (331, 52322), (351, 52202), (361, 52139), (362, 52127), (367, 52097), (369, 52085), (376, 52043), (381, 52013),

Gene: LilSmirk_57 Start: 52488, Stop: 50659, Start Num: 105

Candidate Starts for LilSmirk_57:

(Start: 105 @52488 has 315 MA's), (Start: 118 @52461 has 2 MA's), (121, 52431), (123, 52419), (127, 52392), (128, 52389), (132, 52380), (141, 52362), (157, 52266), (167, 52215), (172, 52191), (199, 52029), (205, 52005), (207, 51993), (214, 51936), (218, 51900), (219, 51888), (224, 51864), (235, 51780), (242, 51750), (243, 51747), (248, 51717), (268, 51573), (274, 51507), (282, 51456), (284, 51435), (287, 51417), (292, 51360), (297, 51303), (301, 51276), (303, 51246), (305, 51237), (309, 51171), (312, 51144), (313, 51135), (317, 51117), (320, 51093), (326, 51039), (327, 51027), (329, 51006), (342, 50937), (351, 50877), (354, 50859), (358, 50826), (361, 50814), (363, 50799), (364, 50796), (365, 50784), (369, 50760), (370, 50757), (378, 50709), (379, 50706), (381, 50685), (383, 50664),

Gene: LittleDigger_52 Start: 53011, Stop: 51188, Start Num: 101

Candidate Starts for LittleDigger_52:

(Start: 97 @53029 has 5 MA's), (Start: 101 @53011 has 17 MA's), (Start: 118 @52987 has 2 MA's), (120, 52960), (123, 52945), (125, 52924), (146, 52837), (166, 52732), (173, 52690), (186, 52624), (191, 52594), (192, 52585), (193, 52582), (194, 52579), (214, 52459), (216, 52441), (218, 52423), (219, 52411), (223, 52396), (225, 52384), (242, 52273), (243, 52270), (248, 52240), (252, 52204), (282, 51979), (283, 51976), (287, 51940), (289, 51916), (292, 51883), (302, 51775), (303, 51769), (305, 51760), (313, 51661), (314, 51658), (317, 51643), (326, 51565), (327, 51553), (329, 51532), (331, 51523), (337, 51493), (342, 51463), (348, 51436), (351, 51403), (354, 51385), (355, 51379), (361, 51340), (364, 51322), (365, 51310), (369, 51286), (376, 51244), (378, 51238), (381, 51214),

Gene: LittleMinkey_63 Start: 54222, Stop: 52378, Start Num: 110

Candidate Starts for LittleMinkey_63:

(Start: 110 @54222 has 3 MA's), (123, 54165), (127, 54138), (151, 54036), (167, 53949), (176, 53895), (180, 53874), (185, 53850), (188, 53835), (207, 53730), (218, 53637), (219, 53625), (226, 53589), (243, 53484), (265, 53337), (272, 53253), (273, 53247), (282, 53187), (283, 53184), (287, 53148), (289, 53124), (292, 53091), (302, 52983), (303, 52977), (305, 52968), (311, 52884), (313, 52854), (317, 52836), (326, 52758), (327, 52746), (329, 52725), (342, 52656), (345, 52641), (351, 52596), (355, 52572), (361, 52533), (363, 52518), (365, 52503), (369, 52479), (376, 52434), (378, 52428), (381, 52404),

Gene: LittleMunchkin_52 Start: 48656, Stop: 46845, Start Num: 111

Candidate Starts for LittleMunchkin_52:

(Start: 111 @48656 has 5 MA's), (122, 48608), (123, 48605), (125, 48584), (128, 48575), (155, 48446), (175, 48338), (178, 48326), (185, 48287), (188, 48272), (204, 48197), (207, 48176), (218, 48083), (236, 47960), (243, 47930), (282, 47639), (292, 47543), (302, 47438), (303, 47432), (305, 47423), (309, 47360), (312, 47333), (317, 47306), (319, 47291), (320, 47282), (326, 47228), (327, 47216), (329, 47195), (345, 47111), (348, 47099), (352, 47063), (361, 47003), (363, 46988), (369, 46943), (378, 46895), (381, 46871),

Gene: LizLemon_57 Start: 52610, Stop: 50781, Start Num: 105

Candidate Starts for LizLemon_57:

(Start: 105 @52610 has 315 MA's), (Start: 118 @52583 has 2 MA's), (121, 52553), (123, 52541), (127, 52514), (128, 52511), (132, 52502), (141, 52484), (157, 52388), (167, 52337), (172, 52313), (175, 52289), (199, 52151), (205, 52127), (207, 52115), (214, 52058), (218, 52022), (219, 52010), (224, 51986), (235, 51902), (242, 51872), (243, 51869), (248, 51839), (268, 51695), (274, 51629), (280, 51590), (282, 51578), (284, 51557), (287, 51539), (292, 51482), (301, 51398), (303, 51368), (305, 51359), (309, 51293), (312, 51266), (313, 51257), (317, 51239), (320, 51215), (326, 51161), (327, 51149), (329, 51128), (342, 51059), (351, 50999), (354, 50981), (358, 50948), (361, 50936), (363, 50921), (364, 50918), (365, 50906), (369, 50882), (370, 50879), (378, 50831), (379, 50828), (381, 50807), (383, 50786),

Gene: Lolalove_54 Start: 54016, Stop: 52190, Start Num: 101

Candidate Starts for Lolalove_54:

(Start: 101 @54016 has 17 MA's), (Start: 118 @53989 has 2 MA's), (120, 53962), (123, 53947), (125, 53926), (146, 53839), (166, 53734), (171, 53707), (173, 53692), (186, 53626), (191, 53596), (192, 53587), (193, 53584), (194, 53581), (214, 53461), (216, 53443), (218, 53425), (219, 53413), (225, 53386), (233, 53323), (241, 53284), (242, 53275), (243, 53272), (248, 53242), (252, 53206), (282, 52981), (283, 52978), (287, 52942), (289, 52918), (292, 52885), (302, 52777), (303, 52771), (305, 52762), (313, 52663), (314, 52660), (317, 52645), (326, 52567), (327, 52555), (329, 52534), (331, 52525), (337, 52495), (342, 52465), (348, 52438), (351, 52405), (355, 52381), (361, 52342), (364, 52324), (365, 52312), (369, 52288), (376, 52246), (378, 52240), (381, 52216),

Gene: Longacauda_61 Start: 54397, Stop: 52538, Start Num: 105

Candidate Starts for Longacauda_61:

(Start: 97 @54421 has 5 MA's), (Start: 105 @54397 has 315 MA's), (Start: 116 @54373 has 6 MA's), (Start: 118 @54367 has 2 MA's), (123, 54325), (125, 54304), (149, 54190), (151, 54184), (155, 54154), (167, 54094), (171, 54073), (180, 54019), (183, 54007), (186, 53989), (188, 53977), (207, 53872), (214, 53815), (218, 53779), (219, 53767), (225, 53740), (231, 53695), (241, 53638), (242, 53629), (243, 53626), (275, 53368), (289, 53266), (292, 53233), (295, 53212), (303, 53119), (305, 53110), (309, 53047), (313, 53011), (314, 53008), (317, 52993), (326, 52915), (327, 52903), (329, 52882), (337, 52843), (351, 52753), (354, 52735), (355, 52729), (357, 52714), (361, 52690), (363, 52675), (364, 52672), (365, 52660), (369, 52636), (378, 52588), (381, 52564),

Gene: Lopsy_59 Start: 53696, Stop: 51837, Start Num: 105

Candidate Starts for Lopsy_59:

(Start: 97 @53720 has 5 MA's), (Start: 105 @53696 has 315 MA's), (Start: 116 @53672 has 6 MA's),
(Start: 118 @53666 has 2 MA's), (123, 53624), (125, 53603), (149, 53489), (151, 53483), (155, 53453),
(167, 53393), (171, 53372), (180, 53318), (183, 53306), (186, 53288), (187, 53279), (188, 53276),
(207, 53171), (214, 53114), (218, 53078), (219, 53066), (224, 53042), (226, 53030), (229, 53012),
(231, 52994), (233, 52976), (241, 52937), (242, 52928), (243, 52925), (244, 52922), (289, 52565),
(292, 52532), (295, 52511), (303, 52418), (305, 52409), (309, 52346), (313, 52310), (314, 52307),
(317, 52292), (326, 52214), (327, 52202), (329, 52181), (337, 52142), (351, 52052), (355, 52028),
(357, 52013), (361, 51989), (363, 51974), (364, 51971), (365, 51959), (369, 51935), (378, 51887),
(381, 51863),

Gene: LostAndPhound_61 Start: 54582, Stop: 52723, Start Num: 105

Candidate Starts for LostAndPhound_61:

(Start: 97 @54606 has 5 MA's), (Start: 105 @54582 has 315 MA's), (Start: 116 @54558 has 6 MA's),
(Start: 118 @54552 has 2 MA's), (123, 54510), (125, 54489), (149, 54375), (151, 54369), (155, 54339),
(167, 54279), (171, 54258), (180, 54204), (183, 54192), (186, 54174), (188, 54162), (207, 54057),
(214, 54000), (218, 53964), (219, 53952), (225, 53925), (229, 53898), (231, 53880), (233, 53862),
(241, 53823), (242, 53814), (243, 53811), (275, 53553), (289, 53451), (292, 53418), (295, 53397),
(303, 53304), (305, 53295), (309, 53232), (313, 53196), (314, 53193), (317, 53178), (326, 53100),
(327, 53088), (329, 53067), (337, 53028), (351, 52938), (354, 52920), (355, 52914), (357, 52899),
(361, 52875), (363, 52860), (364, 52857), (365, 52845), (369, 52821), (378, 52773), (381, 52749),

Gene: LuckyMarjie_58 Start: 53758, Stop: 51899, Start Num: 105

Candidate Starts for LuckyMarjie_58:

(Start: 97 @53782 has 5 MA's), (Start: 105 @53758 has 315 MA's), (Start: 116 @53734 has 6 MA's),
(Start: 118 @53728 has 2 MA's), (123, 53686), (125, 53665), (149, 53551), (151, 53545), (155, 53515),
(167, 53455), (171, 53434), (180, 53380), (183, 53368), (186, 53350), (188, 53338), (207, 53233),
(214, 53176), (218, 53140), (219, 53128), (224, 53104), (226, 53092), (229, 53074), (231, 53056),
(233, 53038), (241, 52999), (242, 52990), (243, 52987), (244, 52984), (289, 52627), (292, 52594),
(295, 52573), (303, 52480), (305, 52471), (309, 52408), (313, 52372), (314, 52369), (317, 52354),
(326, 52276), (327, 52264), (329, 52243), (337, 52204), (351, 52114), (354, 52096), (355, 52090),
(357, 52075), (361, 52051), (363, 52036), (364, 52033), (365, 52021), (369, 51997), (378, 51949),
(381, 51925),

Gene: Lulumae_58 Start: 53743, Stop: 51884, Start Num: 105

Candidate Starts for Lulumae_58:

(Start: 97 @53767 has 5 MA's), (Start: 105 @53743 has 315 MA's), (Start: 116 @53719 has 6 MA's),
(Start: 118 @53713 has 2 MA's), (123, 53671), (125, 53650), (149, 53536), (151, 53530), (155, 53500),
(167, 53440), (171, 53419), (180, 53365), (183, 53353), (186, 53335), (188, 53323), (207, 53218),
(214, 53161), (218, 53125), (219, 53113), (225, 53086), (229, 53059), (231, 53041), (233, 53023),
(241, 52984), (242, 52975), (243, 52972), (244, 52969), (289, 52612), (292, 52579), (295, 52558),
(303, 52465), (305, 52456), (309, 52393), (313, 52357), (314, 52354), (317, 52339), (326, 52261),
(327, 52249), (329, 52228), (337, 52189), (351, 52099), (354, 52081), (355, 52075), (357, 52060),
(361, 52036), (363, 52021), (364, 52018), (365, 52006), (369, 51982), (378, 51934), (381, 51910),

Gene: Lulwa_58 Start: 53340, Stop: 51481, Start Num: 105

Candidate Starts for Lulwa_58:

(Start: 97 @53364 has 5 MA's), (Start: 105 @53340 has 315 MA's), (Start: 116 @53316 has 6 MA's),
(Start: 118 @53310 has 2 MA's), (123, 53268), (125, 53247), (149, 53133), (151, 53127), (155, 53097),
(167, 53037), (171, 53016), (180, 52962), (183, 52950), (186, 52932), (188, 52920), (207, 52815),
(214, 52758), (218, 52722), (219, 52710), (225, 52683), (229, 52656), (231, 52638), (233, 52620),
(241, 52581), (242, 52572), (243, 52569), (275, 52311), (289, 52209), (292, 52176), (295, 52155),

(303, 52062), (305, 52053), (309, 51990), (313, 51954), (314, 51951), (317, 51936), (326, 51858), (327, 51846), (329, 51825), (337, 51786), (351, 51696), (354, 51678), (355, 51672), (357, 51657), (361, 51633), (363, 51618), (364, 51615), (365, 51603), (369, 51579), (378, 51531), (381, 51507),

Gene: Lumine_61 Start: 54227, Stop: 52368, Start Num: 105

Candidate Starts for Lumine_61:

(Start: 97 @54251 has 5 MA's), (Start: 105 @54227 has 315 MA's), (Start: 116 @54203 has 6 MA's), (Start: 118 @54197 has 2 MA's), (123, 54155), (125, 54134), (149, 54020), (151, 54014), (155, 53984), (167, 53924), (171, 53903), (180, 53849), (183, 53837), (186, 53819), (188, 53807), (207, 53702), (214, 53645), (218, 53609), (219, 53597), (224, 53573), (226, 53561), (229, 53543), (231, 53525), (233, 53507), (241, 53468), (242, 53459), (243, 53456), (244, 53453), (289, 53096), (292, 53063), (295, 53042), (303, 52949), (305, 52940), (309, 52877), (313, 52841), (314, 52838), (317, 52823), (326, 52745), (327, 52733), (329, 52712), (337, 52673), (351, 52583), (354, 52565), (355, 52559), (357, 52544), (361, 52520), (363, 52505), (364, 52502), (365, 52490), (369, 52466), (378, 52418), (381, 52394),

Gene: MRabcd_60 Start: 54351, Stop: 52492, Start Num: 105

Candidate Starts for MRabcd_60:

(Start: 97 @54375 has 5 MA's), (Start: 105 @54351 has 315 MA's), (Start: 116 @54327 has 6 MA's), (Start: 118 @54321 has 2 MA's), (123, 54279), (125, 54258), (149, 54144), (151, 54138), (155, 54108), (167, 54048), (171, 54027), (180, 53973), (183, 53961), (186, 53943), (188, 53931), (207, 53826), (214, 53769), (218, 53733), (219, 53721), (225, 53694), (231, 53649), (241, 53592), (242, 53583), (243, 53580), (289, 53220), (292, 53187), (295, 53166), (303, 53073), (305, 53064), (309, 53001), (313, 52965), (314, 52962), (317, 52947), (326, 52869), (327, 52857), (329, 52836), (337, 52797), (351, 52707), (354, 52689), (355, 52683), (357, 52668), (361, 52644), (363, 52629), (364, 52626), (365, 52614), (369, 52590), (378, 52542), (381, 52518),

Gene: Mag7_61 Start: 54187, Stop: 52328, Start Num: 105

Candidate Starts for Mag7_61:

(Start: 97 @54211 has 5 MA's), (Start: 105 @54187 has 315 MA's), (Start: 116 @54163 has 6 MA's), (Start: 118 @54157 has 2 MA's), (123, 54115), (125, 54094), (149, 53980), (151, 53974), (155, 53944), (167, 53884), (171, 53863), (180, 53809), (183, 53797), (186, 53779), (188, 53767), (207, 53662), (214, 53605), (218, 53569), (219, 53557), (224, 53533), (226, 53521), (229, 53503), (231, 53485), (233, 53467), (241, 53428), (242, 53419), (243, 53416), (244, 53413), (289, 53056), (292, 53023), (295, 53002), (303, 52909), (305, 52900), (309, 52837), (313, 52801), (314, 52798), (317, 52783), (326, 52705), (327, 52693), (329, 52672), (337, 52633), (351, 52543), (354, 52525), (355, 52519), (357, 52504), (361, 52480), (363, 52465), (364, 52462), (365, 52450), (369, 52426), (378, 52378), (381, 52354),

Gene: Magic8_61 Start: 54339, Stop: 52480, Start Num: 105

Candidate Starts for Magic8_61:

(Start: 97 @54363 has 5 MA's), (Start: 105 @54339 has 315 MA's), (Start: 116 @54315 has 6 MA's), (Start: 118 @54309 has 2 MA's), (123, 54267), (125, 54246), (149, 54132), (151, 54126), (155, 54096), (167, 54036), (171, 54015), (180, 53961), (183, 53949), (186, 53931), (188, 53919), (207, 53814), (214, 53757), (218, 53721), (219, 53709), (225, 53682), (229, 53655), (231, 53637), (233, 53619), (241, 53580), (242, 53571), (243, 53568), (244, 53565), (289, 53208), (292, 53175), (295, 53154), (303, 53061), (305, 53052), (309, 52989), (313, 52953), (314, 52950), (317, 52935), (326, 52857), (327, 52845), (329, 52824), (337, 52785), (351, 52695), (354, 52677), (355, 52671), (357, 52656), (361, 52632), (363, 52617), (364, 52614), (365, 52602), (369, 52578), (378, 52530), (381, 52506),

Gene: Magpie_52 Start: 53908, Stop: 52085, Start Num: 101

Candidate Starts for Magpie_52:

(Start: 97 @53926 has 5 MA's), (Start: 101 @53908 has 17 MA's), (Start: 118 @53884 has 2 MA's), (120, 53857), (123, 53842), (125, 53821), (146, 53734), (166, 53629), (171, 53602), (173, 53587), (186, 53521), (191, 53491), (192, 53482), (193, 53479), (194, 53476), (199, 53449), (207, 53413), (214, 53356), (216, 53338), (218, 53320), (219, 53308), (225, 53281), (233, 53218), (241, 53179), (242, 53170), (243, 53167), (248, 53137), (252, 53101), (275, 52915), (282, 52876), (283, 52873), (287, 52837), (289, 52813), (292, 52780), (302, 52672), (303, 52666), (305, 52657), (313, 52558), (314, 52555), (317, 52540), (326, 52462), (327, 52450), (329, 52429), (331, 52420), (337, 52390), (342, 52360), (348, 52333), (351, 52300), (355, 52276), (361, 52237), (364, 52219), (365, 52207), (369, 52183), (376, 52141), (378, 52135), (381, 52111),

Gene: Mahdia_44 Start: 34961, Stop: 32724, Start Num: 9

Candidate Starts for Mahdia_44:

(3, 35099), (Start: 9 @34961 has 5 MA's), (20, 34808), (21, 34805), (27, 34754), (61, 34676), (78, 34622), (90, 34610), (100, 34580), (Start: 106 @34568 has 3 MA's), (109, 34556), (Start: 116 @34526 has 6 MA's), (128, 34448), (140, 34424), (141, 34421), (143, 34400), (180, 34199), (187, 34163), (190, 34148), (202, 34091), (206, 34070), (207, 34064), (209, 34055), (213, 34013), (218, 33974), (228, 33911), (232, 33878), (234, 33860), (236, 33851), (243, 33821), (248, 33791), (265, 33671), (282, 33527), (286, 33497), (287, 33488), (289, 33464), (292, 33431), (301, 33350), (302, 33326), (303, 33320), (309, 33248), (312, 33221), (313, 33212), (314, 33209), (317, 33194), (320, 33170), (326, 33116), (327, 33104), (347, 32990), (348, 32975), (363, 32864), (364, 32861), (367, 32837), (369, 32825), (378, 32774), (381, 32750),

Gene: MakoManhole_51 Start: 47082, Stop: 45265, Start Num: 115

Candidate Starts for MakoManhole_51:

(Start: 115 @47082 has 14 MA's), (Start: 118 @47073 has 2 MA's), (120, 47046), (122, 47034), (125, 47010), (128, 47001), (149, 46905), (157, 46863), (164, 46827), (178, 46752), (191, 46677), (207, 46599), (214, 46542), (218, 46506), (219, 46494), (224, 46470), (238, 46377), (243, 46353), (246, 46335), (282, 46062), (287, 46023), (290, 45993), (292, 45966), (302, 45858), (303, 45852), (305, 45843), (312, 45753), (313, 45744), (314, 45741), (317, 45726), (326, 45648), (327, 45636), (328, 45630), (329, 45615), (339, 45567), (348, 45519), (351, 45486), (355, 45462), (361, 45423), (362, 45411), (363, 45408), (369, 45363), (378, 45315), (381, 45291), (383, 45270),

Gene: Mana_59 Start: 54023, Stop: 52164, Start Num: 105

Candidate Starts for Mana_59:

(Start: 97 @54047 has 5 MA's), (Start: 105 @54023 has 315 MA's), (Start: 116 @53999 has 6 MA's), (Start: 118 @53993 has 2 MA's), (123, 53951), (125, 53930), (149, 53816), (151, 53810), (155, 53780), (167, 53720), (171, 53699), (180, 53645), (183, 53633), (186, 53615), (188, 53603), (207, 53498), (214, 53441), (218, 53405), (219, 53393), (225, 53366), (229, 53339), (231, 53321), (233, 53303), (241, 53264), (242, 53255), (243, 53252), (289, 52892), (292, 52859), (295, 52838), (303, 52745), (305, 52736), (309, 52673), (313, 52637), (314, 52634), (317, 52619), (326, 52541), (327, 52529), (329, 52508), (337, 52469), (351, 52379), (354, 52361), (355, 52355), (357, 52340), (361, 52316), (363, 52301), (364, 52298), (365, 52286), (369, 52262), (378, 52214), (381, 52190),

Gene: Manad_60 Start: 54307, Stop: 52448, Start Num: 105

Candidate Starts for Manad_60:

(Start: 97 @54331 has 5 MA's), (Start: 105 @54307 has 315 MA's), (Start: 116 @54283 has 6 MA's), (Start: 118 @54277 has 2 MA's), (123, 54235), (125, 54214), (149, 54100), (151, 54094), (155, 54064), (167, 54004), (171, 53983), (180, 53929), (183, 53917), (186, 53899), (188, 53887), (207, 53782), (214, 53725), (218, 53689), (219, 53677), (224, 53653), (226, 53641), (229, 53623), (231, 53605), (233, 53587), (241, 53548), (242, 53539), (243, 53536), (244, 53533), (289, 53176), (292, 53143), (295, 53122), (303, 53029), (305, 53020), (309, 52957), (313, 52921), (314, 52918), (317, 52903), (326, 52825), (327, 52813), (329, 52792), (337, 52753), (351, 52663), (354, 52645), (355, 52639), (357, 52624), (361, 52600), (363, 52585), (364, 52582), (365, 52570), (369, 52546), (378, 52498),

(381, 52474),

Gene: Mariokart_50 Start: 45633, Stop: 43816, Start Num: 115

Candidate Starts for Mariokart_50:

(63, 45906), (71, 45873), (Start: 115 @45633 has 14 MA's), (120, 45597), (122, 45585), (123, 45582), (128, 45552), (154, 45426), (164, 45378), (178, 45303), (188, 45246), (204, 45171), (207, 45150), (218, 45057), (238, 44928), (243, 44904), (252, 44838), (258, 44805), (282, 44613), (284, 44592), (287, 44574), (292, 44517), (303, 44403), (305, 44394), (314, 44292), (317, 44277), (326, 44199), (327, 44187), (329, 44166), (331, 44157), (341, 44103), (348, 44070), (351, 44037), (352, 44034), (357, 43998), (361, 43974), (369, 43914), (381, 43842), (383, 43821),

Gene: Marley1013_59 Start: 54530, Stop: 52713, Start Num: 117

Candidate Starts for Marley1013_59:

(34, 54914), (75, 54713), (Start: 117 @54530 has 46 MA's), (120, 54500), (159, 54320), (185, 54167), (187, 54155), (192, 54125), (194, 54119), (207, 54056), (208, 54050), (214, 53999), (218, 53963), (226, 53915), (243, 53810), (257, 53714), (265, 53663), (282, 53519), (287, 53480), (290, 53450), (292, 53423), (294, 53411), (302, 53315), (303, 53309), (305, 53300), (306, 53288), (311, 53216), (313, 53186), (317, 53168), (318, 53159), (326, 53090), (327, 53078), (329, 53057), (342, 52988), (345, 52973), (350, 52949), (355, 52904), (361, 52865), (364, 52847), (365, 52835), (367, 52823), (369, 52811), (376, 52769), (381, 52739),

Gene: Marlia_59 Start: 54105, Stop: 52288, Start Num: 117

Candidate Starts for Marlia_59:

(75, 54288), (Start: 117 @54105 has 46 MA's), (120, 54075), (159, 53895), (185, 53742), (187, 53730), (192, 53700), (194, 53694), (207, 53631), (208, 53625), (214, 53574), (218, 53538), (226, 53490), (243, 53385), (257, 53289), (265, 53238), (282, 53094), (287, 53055), (290, 53025), (292, 52998), (294, 52986), (302, 52890), (303, 52884), (305, 52875), (306, 52863), (311, 52791), (313, 52761), (317, 52743), (318, 52734), (326, 52665), (327, 52653), (329, 52632), (342, 52563), (345, 52548), (350, 52524), (351, 52503), (355, 52479), (361, 52440), (364, 52422), (365, 52410), (367, 52398), (369, 52386), (376, 52344), (381, 52314),

Gene: Maru_60 Start: 54462, Stop: 52603, Start Num: 105

Candidate Starts for Maru_60:

(Start: 97 @54486 has 5 MA's), (Start: 105 @54462 has 315 MA's), (Start: 116 @54438 has 6 MA's), (Start: 118 @54432 has 2 MA's), (123, 54390), (125, 54369), (149, 54255), (151, 54249), (155, 54219), (167, 54159), (171, 54138), (180, 54084), (183, 54072), (186, 54054), (188, 54042), (207, 53937), (214, 53880), (218, 53844), (219, 53832), (225, 53805), (231, 53760), (233, 53742), (241, 53703), (242, 53694), (243, 53691), (244, 53688), (289, 53331), (292, 53298), (295, 53277), (303, 53184), (305, 53175), (309, 53112), (313, 53076), (314, 53073), (317, 53058), (326, 52980), (327, 52968), (329, 52947), (337, 52908), (351, 52818), (354, 52800), (355, 52794), (357, 52779), (361, 52755), (363, 52740), (364, 52737), (365, 52725), (369, 52701), (378, 52653), (381, 52629),

Gene: Maskar_62 Start: 54257, Stop: 52398, Start Num: 105

Candidate Starts for Maskar_62:

(Start: 97 @54281 has 5 MA's), (Start: 105 @54257 has 315 MA's), (Start: 116 @54233 has 6 MA's), (Start: 118 @54227 has 2 MA's), (123, 54185), (125, 54164), (149, 54050), (151, 54044), (155, 54014), (167, 53954), (171, 53933), (180, 53879), (183, 53867), (186, 53849), (188, 53837), (207, 53732), (214, 53675), (218, 53639), (219, 53627), (224, 53603), (226, 53591), (229, 53573), (231, 53555), (233, 53537), (241, 53498), (242, 53489), (243, 53486), (244, 53483), (275, 53228), (289, 53126), (292, 53093), (295, 53072), (303, 52979), (305, 52970), (309, 52907), (313, 52871), (314, 52868), (317, 52853), (326, 52775), (327, 52763), (329, 52742), (337, 52703), (351, 52613), (354, 52595), (355, 52589), (357, 52574), (361, 52550), (363, 52535), (364, 52532), (365, 52520), (369, 52496), (372, 52475), (378, 52448), (381, 52424),

Gene: MasterPo_57 Start: 52506, Stop: 50677, Start Num: 105

Candidate Starts for MasterPo_57:

(Start: 105 @52506 has 315 MA's), (Start: 118 @52479 has 2 MA's), (121, 52449), (123, 52437), (127, 52410), (128, 52407), (132, 52398), (141, 52380), (157, 52284), (167, 52233), (172, 52209), (175, 52185), (199, 52047), (205, 52023), (207, 52011), (214, 51954), (218, 51918), (219, 51906), (224, 51882), (235, 51798), (242, 51768), (243, 51765), (248, 51735), (268, 51591), (274, 51525), (280, 51486), (282, 51474), (284, 51453), (287, 51435), (292, 51378), (301, 51294), (303, 51264), (305, 51255), (309, 51189), (312, 51162), (313, 51153), (317, 51135), (320, 51111), (326, 51057), (327, 51045), (329, 51024), (342, 50955), (351, 50895), (354, 50877), (358, 50844), (361, 50832), (363, 50817), (364, 50814), (365, 50802), (369, 50778), (370, 50775), (378, 50727), (379, 50724), (381, 50703), (383, 50682),

Gene: Matalotodo_60 Start: 54575, Stop: 52716, Start Num: 105

Candidate Starts for Matalotodo_60:

(Start: 97 @54599 has 5 MA's), (Start: 105 @54575 has 315 MA's), (Start: 116 @54551 has 6 MA's), (Start: 118 @54545 has 2 MA's), (123, 54503), (125, 54482), (149, 54368), (151, 54362), (155, 54332), (167, 54272), (171, 54251), (180, 54197), (183, 54185), (186, 54167), (188, 54155), (207, 54050), (214, 53993), (218, 53957), (219, 53945), (225, 53918), (229, 53891), (231, 53873), (233, 53855), (241, 53816), (242, 53807), (243, 53804), (275, 53546), (289, 53444), (292, 53411), (295, 53390), (303, 53297), (305, 53288), (309, 53225), (313, 53189), (314, 53186), (317, 53171), (326, 53093), (327, 53081), (329, 53060), (337, 53021), (351, 52931), (354, 52913), (355, 52907), (357, 52892), (361, 52868), (363, 52853), (364, 52850), (365, 52838), (369, 52814), (378, 52766), (381, 52742),

Gene: Mcshane_59 Start: 54021, Stop: 52162, Start Num: 105

Candidate Starts for Mcshane_59:

(Start: 97 @54045 has 5 MA's), (Start: 105 @54021 has 315 MA's), (Start: 116 @53997 has 6 MA's), (Start: 118 @53991 has 2 MA's), (123, 53949), (125, 53928), (149, 53814), (151, 53808), (155, 53778), (167, 53718), (171, 53697), (180, 53643), (183, 53631), (186, 53613), (188, 53601), (207, 53496), (214, 53439), (218, 53403), (219, 53391), (225, 53364), (229, 53337), (231, 53319), (233, 53301), (241, 53262), (242, 53253), (243, 53250), (275, 52992), (289, 52890), (292, 52857), (295, 52836), (303, 52743), (305, 52734), (309, 52671), (313, 52635), (314, 52632), (317, 52617), (326, 52539), (327, 52527), (329, 52506), (337, 52467), (351, 52377), (354, 52359), (355, 52353), (357, 52338), (361, 52314), (363, 52299), (364, 52296), (365, 52284), (369, 52260), (378, 52212), (381, 52188),

Gene: Mecca_60 Start: 54586, Stop: 52727, Start Num: 105

Candidate Starts for Mecca_60:

(Start: 97 @54610 has 5 MA's), (Start: 105 @54586 has 315 MA's), (Start: 116 @54562 has 6 MA's), (Start: 118 @54556 has 2 MA's), (123, 54514), (125, 54493), (149, 54379), (151, 54373), (155, 54343), (167, 54283), (171, 54262), (180, 54208), (183, 54196), (186, 54178), (188, 54166), (207, 54061), (214, 54004), (218, 53968), (219, 53956), (224, 53932), (226, 53920), (229, 53902), (231, 53884), (233, 53866), (241, 53827), (242, 53818), (243, 53815), (244, 53812), (289, 53455), (292, 53422), (295, 53401), (303, 53308), (305, 53299), (309, 53236), (313, 53200), (314, 53197), (317, 53182), (326, 53104), (327, 53092), (329, 53071), (337, 53032), (351, 52942), (354, 52924), (355, 52918), (357, 52903), (361, 52879), (363, 52864), (364, 52861), (365, 52849), (369, 52825), (378, 52777), (381, 52753),

Gene: Megamind20_61 Start: 54009, Stop: 52150, Start Num: 105

Candidate Starts for Megamind20_61:

(Start: 97 @54033 has 5 MA's), (Start: 105 @54009 has 315 MA's), (Start: 116 @53985 has 6 MA's), (Start: 118 @53979 has 2 MA's), (123, 53937), (125, 53916), (149, 53802), (151, 53796), (155, 53766), (167, 53706), (171, 53685), (180, 53631), (183, 53619), (186, 53601), (188, 53589), (207, 53484), (214, 53427), (218, 53391), (219, 53379), (225, 53352), (229, 53325), (231, 53307), (233, 53289),

(241, 53250), (242, 53241), (243, 53238), (275, 52980), (289, 52878), (292, 52845), (295, 52824), (303, 52731), (305, 52722), (309, 52659), (313, 52623), (314, 52620), (317, 52605), (326, 52527), (327, 52515), (329, 52494), (337, 52455), (351, 52365), (354, 52347), (355, 52341), (357, 52326), (361, 52302), (363, 52287), (364, 52284), (365, 52272), (369, 52248), (378, 52200), (381, 52176),

Gene: Megatron_61 Start: 54535, Stop: 52676, Start Num: 105

Candidate Starts for Megatron_61:

(Start: 97 @54559 has 5 MA's), (Start: 105 @54535 has 315 MA's), (Start: 116 @54511 has 6 MA's), (Start: 118 @54505 has 2 MA's), (123, 54463), (125, 54442), (149, 54328), (151, 54322), (155, 54292), (167, 54232), (171, 54211), (180, 54157), (183, 54145), (186, 54127), (188, 54115), (207, 54010), (214, 53953), (218, 53917), (219, 53905), (225, 53878), (229, 53851), (231, 53833), (233, 53815), (241, 53776), (242, 53767), (243, 53764), (275, 53506), (289, 53404), (292, 53371), (295, 53350), (303, 53257), (305, 53248), (309, 53185), (313, 53149), (314, 53146), (317, 53131), (326, 53053), (327, 53041), (329, 53020), (337, 52981), (351, 52891), (354, 52873), (355, 52867), (357, 52852), (361, 52828), (363, 52813), (364, 52810), (365, 52798), (369, 52774), (378, 52726), (381, 52702),

Gene: Melc17_60 Start: 54852, Stop: 52993, Start Num: 105

Candidate Starts for Melc17_60:

(Start: 97 @54876 has 5 MA's), (Start: 105 @54852 has 315 MA's), (Start: 116 @54828 has 6 MA's), (Start: 118 @54822 has 2 MA's), (123, 54780), (125, 54759), (149, 54645), (151, 54639), (155, 54609), (167, 54549), (171, 54528), (180, 54474), (183, 54462), (186, 54444), (188, 54432), (207, 54327), (214, 54270), (218, 54234), (219, 54222), (224, 54198), (226, 54186), (229, 54168), (231, 54150), (233, 54132), (241, 54093), (242, 54084), (243, 54081), (244, 54078), (289, 53721), (292, 53688), (295, 53667), (303, 53574), (305, 53565), (309, 53502), (313, 53466), (314, 53463), (317, 53448), (326, 53370), (327, 53358), (329, 53337), (337, 53298), (351, 53208), (354, 53190), (355, 53184), (357, 53169), (361, 53145), (363, 53130), (364, 53127), (365, 53115), (369, 53091), (378, 53043), (381, 53019),

Gene: MelsMeow_61 Start: 54310, Stop: 52451, Start Num: 105

Candidate Starts for MelsMeow_61:

(Start: 97 @54334 has 5 MA's), (Start: 105 @54310 has 315 MA's), (Start: 116 @54286 has 6 MA's), (Start: 118 @54280 has 2 MA's), (123, 54238), (125, 54217), (149, 54103), (151, 54097), (155, 54067), (167, 54007), (171, 53986), (180, 53932), (183, 53920), (186, 53902), (188, 53890), (207, 53785), (214, 53728), (218, 53692), (219, 53680), (225, 53653), (231, 53608), (241, 53551), (242, 53542), (243, 53539), (275, 53281), (289, 53179), (292, 53146), (295, 53125), (303, 53032), (305, 53023), (309, 52960), (313, 52924), (314, 52921), (317, 52906), (326, 52828), (327, 52816), (329, 52795), (337, 52756), (351, 52666), (354, 52648), (355, 52642), (357, 52627), (361, 52603), (363, 52588), (364, 52585), (365, 52573), (369, 52549), (372, 52528), (378, 52501), (381, 52477), (382, 52462),

Gene: Mesh1_62 Start: 54599, Stop: 52740, Start Num: 105

Candidate Starts for Mesh1_62:

(Start: 97 @54623 has 5 MA's), (Start: 105 @54599 has 315 MA's), (Start: 116 @54575 has 6 MA's), (Start: 118 @54569 has 2 MA's), (123, 54527), (125, 54506), (149, 54392), (151, 54386), (155, 54356), (167, 54296), (171, 54275), (180, 54221), (183, 54209), (186, 54191), (188, 54179), (207, 54074), (214, 54017), (218, 53981), (219, 53969), (225, 53942), (229, 53915), (231, 53897), (233, 53879), (241, 53840), (242, 53831), (243, 53828), (275, 53570), (289, 53468), (292, 53435), (295, 53414), (303, 53321), (305, 53312), (309, 53249), (313, 53213), (314, 53210), (317, 53195), (326, 53117), (327, 53105), (329, 53084), (337, 53045), (351, 52955), (354, 52937), (355, 52931), (357, 52916), (361, 52892), (363, 52877), (364, 52874), (365, 52862), (369, 52838), (378, 52790), (381, 52766),

Gene: Mesmerelda_60 Start: 54579, Stop: 52720, Start Num: 105

Candidate Starts for Mesmerelda_60:

(Start: 97 @54603 has 5 MA's), (Start: 105 @54579 has 315 MA's), (Start: 116 @54555 has 6 MA's),
(Start: 118 @54549 has 2 MA's), (123, 54507), (125, 54486), (149, 54372), (151, 54366), (155, 54336),
(167, 54276), (171, 54255), (180, 54201), (183, 54189), (186, 54171), (188, 54159), (207, 54054),
(214, 53997), (218, 53961), (219, 53949), (225, 53922), (229, 53895), (231, 53877), (233, 53859),
(241, 53820), (242, 53811), (243, 53808), (275, 53550), (289, 53448), (292, 53415), (295, 53394),
(303, 53301), (305, 53292), (309, 53229), (313, 53193), (314, 53190), (317, 53175), (326, 53097),
(327, 53085), (329, 53064), (337, 53025), (351, 52935), (354, 52917), (355, 52911), (357, 52896),
(361, 52872), (363, 52857), (364, 52854), (365, 52842), (369, 52818), (378, 52770), (381, 52746),

Gene: MichaelPhcott_61 Start: 54184, Stop: 52325, Start Num: 105

Candidate Starts for MichaelPhcott_61:

(Start: 97 @54208 has 5 MA's), (Start: 105 @54184 has 315 MA's), (Start: 116 @54160 has 6 MA's),
(Start: 118 @54154 has 2 MA's), (123, 54112), (125, 54091), (149, 53977), (151, 53971), (155, 53941),
(167, 53881), (171, 53860), (180, 53806), (183, 53794), (186, 53776), (188, 53764), (207, 53659),
(214, 53602), (218, 53566), (219, 53554), (224, 53530), (226, 53518), (229, 53500), (231, 53482),
(233, 53464), (241, 53425), (242, 53416), (243, 53413), (244, 53410), (289, 53053), (292, 53020),
(295, 52999), (303, 52906), (305, 52897), (309, 52834), (313, 52798), (314, 52795), (317, 52780),
(326, 52702), (327, 52690), (329, 52669), (337, 52630), (351, 52540), (354, 52522), (355, 52516),
(357, 52501), (361, 52477), (363, 52462), (364, 52459), (365, 52447), (369, 52423), (378, 52375),
(381, 52351),

Gene: Mikota_59 Start: 53562, Stop: 51703, Start Num: 105

Candidate Starts for Mikota_59:

(Start: 97 @53586 has 5 MA's), (Start: 105 @53562 has 315 MA's), (Start: 116 @53538 has 6 MA's),
(Start: 118 @53532 has 2 MA's), (120, 53505), (123, 53490), (125, 53469), (149, 53355), (151, 53349),
(155, 53319), (167, 53259), (171, 53238), (180, 53184), (183, 53172), (186, 53154), (188, 53142),
(207, 53037), (214, 52980), (218, 52944), (219, 52932), (225, 52905), (231, 52860), (241, 52803),
(242, 52794), (243, 52791), (244, 52788), (289, 52431), (292, 52398), (295, 52377), (303, 52284),
(305, 52275), (309, 52212), (313, 52176), (314, 52173), (317, 52158), (326, 52080), (327, 52068),
(329, 52047), (337, 52008), (351, 51918), (354, 51900), (355, 51894), (357, 51879), (361, 51855),
(363, 51840), (364, 51837), (365, 51825), (369, 51801), (378, 51753), (381, 51729),

Gene: MiniBoss_58 Start: 53368, Stop: 51509, Start Num: 105

Candidate Starts for MiniBoss_58:

(Start: 97 @53392 has 5 MA's), (Start: 105 @53368 has 315 MA's), (Start: 116 @53344 has 6 MA's),
(Start: 118 @53338 has 2 MA's), (120, 53311), (123, 53296), (125, 53275), (149, 53161), (151, 53155),
(155, 53125), (167, 53065), (171, 53044), (180, 52990), (183, 52978), (186, 52960), (188, 52948),
(207, 52843), (214, 52786), (218, 52750), (219, 52738), (225, 52711), (226, 52702), (231, 52666),
(241, 52609), (242, 52600), (243, 52597), (244, 52594), (289, 52237), (292, 52204), (295, 52183),
(303, 52090), (305, 52081), (309, 52018), (313, 51982), (314, 51979), (317, 51964), (326, 51886),
(327, 51874), (329, 51853), (337, 51814), (351, 51724), (354, 51706), (355, 51700), (357, 51685),
(361, 51661), (363, 51646), (364, 51643), (365, 51631), (369, 51607), (378, 51559), (381, 51535),

Gene: MitKao_60 Start: 54033, Stop: 52174, Start Num: 105

Candidate Starts for MitKao_60:

(Start: 97 @54057 has 5 MA's), (Start: 105 @54033 has 315 MA's), (Start: 116 @54009 has 6 MA's),
(Start: 118 @54003 has 2 MA's), (123, 53961), (125, 53940), (149, 53826), (151, 53820), (155, 53790),
(167, 53730), (171, 53709), (180, 53655), (183, 53643), (186, 53625), (188, 53613), (207, 53508),
(214, 53451), (218, 53415), (219, 53403), (225, 53376), (231, 53331), (241, 53274), (242, 53265),
(243, 53262), (289, 52902), (292, 52869), (295, 52848), (303, 52755), (305, 52746), (309, 52683),
(313, 52647), (314, 52644), (317, 52629), (326, 52551), (327, 52539), (329, 52518), (337, 52479),
(351, 52389), (354, 52371), (355, 52365), (357, 52350), (361, 52326), (363, 52311), (364, 52308),
(365, 52296), (369, 52272), (378, 52224), (381, 52200),

Gene: Mithril_53 Start: 54005, Stop: 52182, Start Num: 101

Candidate Starts for Mithril_53:

(Start: 97 @54023 has 5 MA's), (Start: 101 @54005 has 17 MA's), (Start: 118 @53981 has 2 MA's),
(123, 53939), (125, 53918), (146, 53831), (166, 53726), (171, 53699), (173, 53684), (186, 53618),
(191, 53588), (192, 53579), (193, 53576), (194, 53573), (214, 53453), (216, 53435), (218, 53417),
(219, 53405), (225, 53378), (233, 53315), (241, 53276), (242, 53267), (243, 53264), (248, 53234),
(252, 53198), (275, 53012), (282, 52973), (283, 52970), (287, 52934), (289, 52910), (292, 52877),
(302, 52769), (303, 52763), (305, 52754), (313, 52655), (314, 52652), (317, 52637), (326, 52559),
(327, 52547), (329, 52526), (331, 52517), (337, 52487), (342, 52457), (348, 52430), (351, 52397),
(355, 52373), (361, 52334), (364, 52316), (365, 52304), (369, 52280), (376, 52238), (378, 52232),
(381, 52208),

Gene: MmasiCarm_59 Start: 54089, Stop: 52272, Start Num: 117

Candidate Starts for MmasiCarm_59:

(75, 54272), (Start: 117 @54089 has 46 MA's), (120, 54059), (159, 53879), (185, 53726), (187, 53714),
(192, 53684), (194, 53678), (207, 53615), (208, 53609), (214, 53558), (217, 53531), (218, 53522),
(226, 53474), (243, 53369), (257, 53273), (265, 53222), (282, 53078), (287, 53039), (290, 53009),
(292, 52982), (294, 52970), (302, 52874), (303, 52868), (305, 52859), (306, 52847), (311, 52775),
(313, 52745), (317, 52727), (318, 52718), (326, 52649), (327, 52637), (329, 52616), (342, 52547),
(345, 52532), (350, 52508), (351, 52487), (354, 52469), (355, 52463), (360, 52430), (361, 52424),
(364, 52406), (365, 52394), (367, 52382), (369, 52370), (376, 52328), (381, 52298),

Gene: Morgushi_60 Start: 54022, Stop: 52163, Start Num: 105

Candidate Starts for Morgushi_60:

(Start: 97 @54046 has 5 MA's), (Start: 105 @54022 has 315 MA's), (Start: 116 @53998 has 6 MA's),
(Start: 118 @53992 has 2 MA's), (123, 53950), (125, 53929), (149, 53815), (151, 53809), (155, 53779),
(167, 53719), (171, 53698), (180, 53644), (183, 53632), (186, 53614), (188, 53602), (207, 53497),
(214, 53440), (218, 53404), (219, 53392), (225, 53365), (231, 53320), (241, 53263), (242, 53254),
(243, 53251), (289, 52891), (292, 52858), (295, 52837), (303, 52744), (305, 52735), (309, 52672),
(313, 52636), (314, 52633), (317, 52618), (326, 52540), (327, 52528), (329, 52507), (337, 52468),
(351, 52378), (354, 52360), (355, 52354), (357, 52339), (361, 52315), (363, 52300), (364, 52297),
(365, 52285), (369, 52261), (378, 52213), (381, 52189),

Gene: Morrissey_47 Start: 37547, Stop: 35145, Start Num: 9

Candidate Starts for Morrissey_47:

(Start: 9 @37547 has 5 MA's), (18, 37442), (20, 37418), (27, 37364), (31, 37337), (32, 37334), (38,
37292), (39, 37289), (54, 37244), (59, 37223), (69, 37199), (73, 37160), (74, 37145), (78, 37121), (80,
37112), (81, 37106), (Start: 87 @37043 has 1 MA's), (90, 37031), (109, 36977), (128, 36869), (141,
36842), (143, 36821), (170, 36677), (179, 36623), (180, 36620), (181, 36614), (187, 36584), (190,
36569), (202, 36512), (206, 36491), (207, 36485), (209, 36476), (218, 36395), (228, 36332), (232,
36299), (236, 36272), (243, 36242), (248, 36212), (265, 36092), (266, 36083), (279, 35966), (282,
35948), (286, 35918), (287, 35909), (289, 35885), (292, 35852), (301, 35771), (302, 35747), (303,
35741), (309, 35669), (312, 35642), (317, 35615), (320, 35591), (326, 35537), (327, 35525), (344,
35414), (347, 35411), (363, 35285), (364, 35282), (367, 35258), (369, 35246), (378, 35195), (381,
35171), (383, 35150),

Gene: Mortcellus_58 Start: 54744, Stop: 52927, Start Num: 117

Candidate Starts for Mortcellus_58:

(75, 54927), (Start: 117 @54744 has 46 MA's), (120, 54714), (159, 54534), (185, 54381), (187, 54369),
(192, 54339), (194, 54333), (207, 54270), (208, 54264), (214, 54213), (217, 54186), (218, 54177),
(226, 54129), (243, 54024), (257, 53928), (265, 53877), (282, 53733), (287, 53694), (290, 53664),
(292, 53637), (294, 53625), (302, 53529), (303, 53523), (305, 53514), (306, 53502), (311, 53430),

(313, 53400), (317, 53382), (318, 53373), (326, 53304), (327, 53292), (329, 53271), (342, 53202), (345, 53187), (350, 53163), (351, 53142), (355, 53118), (361, 53079), (364, 53061), (365, 53049), (367, 53037), (369, 53025), (376, 52983), (381, 52953),

Gene: Morty_61 Start: 54544, Stop: 52685, Start Num: 105

Candidate Starts for Morty_61:

(Start: 97 @54568 has 5 MA's), (Start: 105 @54544 has 315 MA's), (Start: 116 @54520 has 6 MA's), (Start: 118 @54514 has 2 MA's), (123, 54472), (125, 54451), (149, 54337), (151, 54331), (155, 54301), (167, 54241), (171, 54220), (180, 54166), (183, 54154), (186, 54136), (188, 54124), (207, 54019), (214, 53962), (218, 53926), (219, 53914), (224, 53890), (226, 53878), (229, 53860), (231, 53842), (233, 53824), (241, 53785), (242, 53776), (243, 53773), (244, 53770), (289, 53413), (292, 53380), (295, 53359), (303, 53266), (305, 53257), (309, 53194), (313, 53158), (314, 53155), (317, 53140), (326, 53062), (327, 53050), (329, 53029), (337, 52990), (351, 52900), (354, 52882), (355, 52876), (357, 52861), (361, 52837), (363, 52822), (364, 52819), (365, 52807), (369, 52783), (378, 52735), (381, 52711),

Gene: Morty007_58 Start: 54530, Stop: 52713, Start Num: 117

Candidate Starts for Morty007_58:

(34, 54914), (75, 54713), (Start: 117 @54530 has 46 MA's), (120, 54500), (159, 54320), (185, 54167), (187, 54155), (192, 54125), (194, 54119), (207, 54056), (208, 54050), (214, 53999), (218, 53963), (226, 53915), (243, 53810), (257, 53714), (265, 53663), (282, 53519), (287, 53480), (290, 53450), (292, 53423), (294, 53411), (302, 53315), (303, 53309), (305, 53300), (306, 53288), (311, 53216), (313, 53186), (317, 53168), (318, 53159), (326, 53090), (327, 53078), (329, 53057), (342, 52988), (345, 52973), (350, 52949), (355, 52904), (361, 52865), (364, 52847), (365, 52835), (367, 52823), (369, 52811), (376, 52769), (381, 52739),

Gene: Mosaic_59 Start: 54027, Stop: 52168, Start Num: 105

Candidate Starts for Mosaic_59:

(Start: 97 @54051 has 5 MA's), (Start: 105 @54027 has 315 MA's), (Start: 116 @54003 has 6 MA's), (Start: 118 @53997 has 2 MA's), (123, 53955), (125, 53934), (149, 53820), (151, 53814), (155, 53784), (167, 53724), (171, 53703), (180, 53649), (183, 53637), (186, 53619), (188, 53607), (207, 53502), (214, 53445), (218, 53409), (219, 53397), (225, 53370), (231, 53325), (241, 53268), (242, 53259), (243, 53256), (289, 52896), (292, 52863), (295, 52842), (303, 52749), (305, 52740), (309, 52677), (313, 52641), (314, 52638), (317, 52623), (326, 52545), (327, 52533), (329, 52512), (337, 52473), (351, 52383), (354, 52365), (355, 52359), (357, 52344), (361, 52320), (363, 52305), (364, 52302), (365, 52290), (369, 52266), (378, 52218), (381, 52194),

Gene: MossRose_53 Start: 47650, Stop: 45833, Start Num: 115

Candidate Starts for MossRose_53:

(Start: 115 @47650 has 14 MA's), (Start: 118 @47641 has 2 MA's), (120, 47614), (122, 47602), (125, 47578), (128, 47569), (157, 47431), (164, 47395), (178, 47320), (191, 47245), (207, 47167), (214, 47110), (218, 47074), (219, 47062), (224, 47038), (238, 46945), (243, 46921), (246, 46903), (282, 46630), (287, 46591), (290, 46561), (292, 46534), (302, 46426), (303, 46420), (305, 46411), (312, 46321), (313, 46312), (314, 46309), (315, 46306), (317, 46294), (326, 46216), (327, 46204), (328, 46198), (329, 46183), (339, 46135), (348, 46087), (351, 46054), (355, 46030), (361, 45991), (363, 45976), (369, 45931), (381, 45859),

Gene: MrPhizzler_63 Start: 54490, Stop: 52631, Start Num: 105

Candidate Starts for MrPhizzler_63:

(Start: 97 @54514 has 5 MA's), (Start: 105 @54490 has 315 MA's), (Start: 116 @54466 has 6 MA's), (Start: 118 @54460 has 2 MA's), (123, 54418), (125, 54397), (149, 54283), (151, 54277), (155, 54247), (167, 54187), (171, 54166), (180, 54112), (183, 54100), (186, 54082), (188, 54070), (207, 53965), (214, 53908), (218, 53872), (219, 53860), (224, 53836), (226, 53824), (229, 53806), (231, 53788),

(233, 53770), (241, 53731), (242, 53722), (243, 53719), (244, 53716), (275, 53461), (289, 53359), (292, 53326), (295, 53305), (303, 53212), (305, 53203), (309, 53140), (313, 53104), (314, 53101), (317, 53086), (326, 53008), (327, 52996), (329, 52975), (337, 52936), (351, 52846), (354, 52828), (355, 52822), (357, 52807), (361, 52783), (363, 52768), (364, 52765), (365, 52753), (369, 52729), (372, 52708), (378, 52681), (381, 52657),

Gene: Mudslide_53 Start: 54263, Stop: 52440, Start Num: 101

Candidate Starts for Mudslide_53:

(Start: 97 @54281 has 5 MA's), (Start: 101 @54263 has 17 MA's), (Start: 118 @54239 has 2 MA's), (120, 54212), (123, 54197), (125, 54176), (146, 54089), (166, 53984), (173, 53942), (186, 53876), (191, 53846), (192, 53837), (193, 53834), (194, 53831), (199, 53804), (214, 53711), (216, 53693), (218, 53675), (219, 53663), (223, 53648), (225, 53636), (233, 53573), (241, 53534), (242, 53525), (243, 53522), (248, 53492), (252, 53456), (282, 53231), (283, 53228), (287, 53192), (289, 53168), (292, 53135), (302, 53027), (303, 53021), (305, 53012), (313, 52913), (314, 52910), (317, 52895), (326, 52817), (327, 52805), (329, 52784), (331, 52775), (337, 52745), (348, 52688), (351, 52655), (354, 52637), (355, 52631), (361, 52592), (364, 52574), (365, 52562), (369, 52538), (376, 52496), (378, 52490), (381, 52466),

Gene: Mulan_60 Start: 54261, Stop: 52402, Start Num: 105

Candidate Starts for Mulan_60:

(Start: 97 @54285 has 5 MA's), (Start: 105 @54261 has 315 MA's), (Start: 116 @54237 has 6 MA's), (Start: 118 @54231 has 2 MA's), (123, 54189), (125, 54168), (149, 54054), (151, 54048), (155, 54018), (167, 53958), (171, 53937), (180, 53883), (183, 53871), (186, 53853), (188, 53841), (207, 53736), (214, 53679), (218, 53643), (219, 53631), (225, 53604), (229, 53577), (231, 53559), (233, 53541), (241, 53502), (242, 53493), (243, 53490), (275, 53232), (289, 53130), (292, 53097), (295, 53076), (303, 52983), (305, 52974), (309, 52911), (313, 52875), (314, 52872), (317, 52857), (326, 52779), (327, 52767), (329, 52746), (337, 52707), (351, 52617), (354, 52599), (355, 52593), (357, 52578), (361, 52554), (363, 52539), (364, 52536), (365, 52524), (369, 52500), (378, 52452), (381, 52428),

Gene: Mulaychimus_59 Start: 54106, Stop: 52289, Start Num: 117

Candidate Starts for Mulaychimus_59:

(75, 54289), (Start: 117 @54106 has 46 MA's), (120, 54076), (159, 53896), (185, 53743), (187, 53731), (192, 53701), (194, 53695), (207, 53632), (208, 53626), (214, 53575), (218, 53539), (226, 53491), (243, 53386), (257, 53290), (265, 53239), (282, 53095), (287, 53056), (290, 53026), (292, 52999), (294, 52987), (302, 52891), (303, 52885), (305, 52876), (306, 52864), (311, 52792), (313, 52762), (317, 52744), (318, 52735), (326, 52666), (327, 52654), (329, 52633), (342, 52564), (345, 52549), (350, 52525), (351, 52504), (354, 52486), (355, 52480), (360, 52447), (361, 52441), (364, 52423), (365, 52411), (367, 52399), (369, 52387), (376, 52345), (381, 52315),

Gene: Murdoc_59 Start: 54023, Stop: 52164, Start Num: 105

Candidate Starts for Murdoc_59:

(Start: 97 @54047 has 5 MA's), (Start: 105 @54023 has 315 MA's), (Start: 116 @53999 has 6 MA's), (Start: 118 @53993 has 2 MA's), (123, 53951), (125, 53930), (149, 53816), (151, 53810), (155, 53780), (167, 53720), (171, 53699), (180, 53645), (183, 53633), (186, 53615), (188, 53603), (207, 53498), (214, 53441), (218, 53405), (219, 53393), (225, 53366), (229, 53339), (231, 53321), (233, 53303), (241, 53264), (242, 53255), (243, 53252), (244, 53249), (289, 52892), (292, 52859), (295, 52838), (303, 52745), (305, 52736), (309, 52673), (313, 52637), (314, 52634), (317, 52619), (326, 52541), (327, 52529), (329, 52508), (337, 52469), (351, 52379), (354, 52361), (355, 52355), (357, 52340), (361, 52316), (363, 52301), (364, 52298), (365, 52286), (369, 52262), (378, 52214), (381, 52190),

Gene: Mutante_60 Start: 54033, Stop: 52174, Start Num: 105

Candidate Starts for Mutante_60:

(Start: 97 @54057 has 5 MA's), (Start: 105 @54033 has 315 MA's), (Start: 116 @54009 has 6 MA's), (Start: 118 @54003 has 2 MA's), (123, 53961), (125, 53940), (149, 53826), (151, 53820), (155, 53790), (167, 53730), (171, 53709), (180, 53655), (183, 53643), (186, 53625), (188, 53613), (207, 53508), (214, 53451), (218, 53415), (219, 53403), (225, 53376), (229, 53349), (231, 53331), (241, 53274), (242, 53265), (243, 53262), (289, 52902), (292, 52869), (295, 52848), (303, 52755), (305, 52746), (309, 52683), (314, 52644), (317, 52629), (326, 52551), (327, 52539), (329, 52518), (337, 52479), (350, 52410), (351, 52389), (354, 52371), (355, 52365), (357, 52350), (361, 52326), (363, 52311), (364, 52308), (365, 52296), (369, 52272), (378, 52224), (381, 52200),

Gene: Mysterious_56 Start: 54574, Stop: 52745, Start Num: 99

Candidate Starts for Mysterious_56:

(Start: 99 @54574 has 12 MA's), (112, 54553), (Start: 117 @54544 has 46 MA's), (120, 54517), (123, 54502), (171, 54277), (179, 54226), (185, 54199), (188, 54184), (191, 54166), (193, 54154), (201, 54118), (207, 54088), (218, 53995), (219, 53983), (220, 53980), (224, 53959), (225, 53956), (226, 53947), (229, 53929), (238, 53866), (243, 53842), (259, 53737), (271, 53614), (280, 53563), (282, 53551), (283, 53548), (284, 53530), (287, 53512), (290, 53482), (292, 53455), (296, 53404), (303, 53341), (305, 53332), (311, 53248), (314, 53215), (317, 53200), (323, 53140), (326, 53122), (327, 53110), (329, 53089), (331, 53080), (332, 53077), (351, 52960), (354, 52942), (355, 52936), (361, 52897), (362, 52885), (363, 52882), (365, 52867), (367, 52855), (369, 52843), (376, 52801), (379, 52792), (381, 52771), (383, 52750),

Gene: NHagos_52 Start: 46533, Stop: 44725, Start Num: 115

Candidate Starts for NHagos_52:

(Start: 115 @46533 has 14 MA's), (Start: 118 @46524 has 2 MA's), (122, 46485), (123, 46482), (125, 46461), (128, 46452), (139, 46416), (149, 46356), (157, 46314), (165, 46272), (185, 46164), (188, 46149), (191, 46131), (195, 46116), (207, 46053), (214, 45996), (218, 45960), (219, 45948), (238, 45831), (241, 45819), (243, 45807), (246, 45789), (247, 45783), (282, 45516), (283, 45513), (290, 45447), (292, 45420), (297, 45363), (302, 45312), (303, 45306), (305, 45297), (309, 45234), (314, 45195), (317, 45180), (326, 45102), (327, 45090), (329, 45069), (331, 45060), (337, 45030), (348, 44973), (361, 44877), (364, 44859), (369, 44823), (378, 44775), (381, 44751),

Gene: Nacho_0062 Start: 54781, Stop: 52922, Start Num: 105

Candidate Starts for Nacho_0062:

(Start: 97 @54805 has 5 MA's), (Start: 105 @54781 has 315 MA's), (Start: 116 @54757 has 6 MA's), (Start: 118 @54751 has 2 MA's), (123, 54709), (125, 54688), (149, 54574), (151, 54568), (155, 54538), (167, 54478), (171, 54457), (180, 54403), (183, 54391), (186, 54373), (188, 54361), (207, 54256), (214, 54199), (218, 54163), (219, 54151), (225, 54124), (229, 54097), (231, 54079), (233, 54061), (241, 54022), (242, 54013), (243, 54010), (275, 53752), (289, 53650), (292, 53617), (295, 53596), (303, 53503), (305, 53494), (309, 53431), (313, 53395), (314, 53392), (317, 53377), (326, 53299), (327, 53287), (329, 53266), (337, 53227), (351, 53137), (354, 53119), (355, 53113), (357, 53098), (361, 53074), (363, 53059), (364, 53056), (365, 53044), (369, 53020), (378, 52972), (381, 52948),

Gene: Nanao_52 Start: 52988, Stop: 51165, Start Num: 101

Candidate Starts for Nanao_52:

(Start: 97 @53006 has 5 MA's), (Start: 101 @52988 has 17 MA's), (Start: 118 @52964 has 2 MA's), (120, 52937), (123, 52922), (125, 52901), (146, 52814), (166, 52709), (173, 52667), (186, 52601), (191, 52571), (192, 52562), (193, 52559), (194, 52556), (199, 52529), (214, 52436), (216, 52418), (218, 52400), (219, 52388), (223, 52373), (225, 52361), (242, 52250), (243, 52247), (248, 52217), (252, 52181), (282, 51956), (283, 51953), (287, 51917), (289, 51893), (292, 51860), (302, 51752), (303, 51746), (304, 51740), (305, 51737), (313, 51638), (314, 51635), (317, 51620), (326, 51542), (327, 51530), (329, 51509), (331, 51500), (337, 51470), (341, 51446), (348, 51413), (351, 51380), (354, 51362), (355, 51356), (361, 51317), (364, 51299), (365, 51287), (369, 51263), (376, 51221), (378, 51215), (381, 51191),

Gene: Nangang_58 Start: 54780, Stop: 52933, Start Num: 97

Candidate Starts for Nangang_58:

(82, 54846), (Start: 97 @54780 has 5 MA's), (Start: 117 @54732 has 46 MA's), (120, 54705), (130, 54654), (149, 54579), (167, 54486), (186, 54384), (193, 54342), (201, 54306), (207, 54276), (218, 54183), (224, 54147), (226, 54135), (229, 54117), (243, 54030), (259, 53925), (260, 53916), (271, 53802), (283, 53736), (284, 53718), (290, 53670), (292, 53643), (302, 53535), (303, 53529), (305, 53520), (307, 53499), (311, 53436), (314, 53403), (317, 53388), (323, 53328), (326, 53310), (327, 53298), (329, 53277), (331, 53268), (332, 53265), (334, 53253), (351, 53148), (355, 53124), (361, 53085), (363, 53070), (364, 53067), (367, 53043), (369, 53031), (370, 53028), (381, 52959),

Gene: Nathan_61 Start: 54114, Stop: 52255, Start Num: 105

Candidate Starts for Nathan_61:

(Start: 97 @54138 has 5 MA's), (Start: 105 @54114 has 315 MA's), (Start: 116 @54090 has 6 MA's), (Start: 118 @54084 has 2 MA's), (123, 54042), (125, 54021), (149, 53907), (151, 53901), (155, 53871), (167, 53811), (171, 53790), (180, 53736), (183, 53724), (186, 53706), (188, 53694), (207, 53589), (214, 53532), (218, 53496), (219, 53484), (224, 53460), (226, 53448), (229, 53430), (231, 53412), (233, 53394), (241, 53355), (242, 53346), (243, 53343), (244, 53340), (275, 53085), (289, 52983), (292, 52950), (295, 52929), (303, 52836), (305, 52827), (309, 52764), (314, 52725), (317, 52710), (326, 52632), (327, 52620), (329, 52599), (337, 52560), (350, 52491), (351, 52470), (354, 52452), (355, 52446), (357, 52431), (361, 52407), (363, 52392), (364, 52389), (365, 52377), (369, 52353), (378, 52305), (381, 52281),

Gene: Nehemiah_57 Start: 54574, Stop: 52745, Start Num: 99

Candidate Starts for Nehemiah_57:

(Start: 99 @54574 has 12 MA's), (112, 54553), (Start: 117 @54544 has 46 MA's), (120, 54517), (123, 54502), (171, 54277), (185, 54199), (191, 54166), (193, 54154), (201, 54118), (207, 54088), (218, 53995), (219, 53983), (220, 53980), (224, 53959), (225, 53956), (226, 53947), (229, 53929), (238, 53866), (243, 53842), (259, 53737), (271, 53614), (280, 53563), (282, 53551), (283, 53548), (284, 53530), (287, 53512), (290, 53482), (292, 53455), (296, 53404), (303, 53341), (305, 53332), (311, 53248), (314, 53215), (317, 53200), (323, 53140), (326, 53122), (327, 53110), (329, 53089), (331, 53080), (332, 53077), (351, 52960), (354, 52942), (355, 52936), (361, 52897), (362, 52885), (363, 52882), (365, 52867), (367, 52855), (369, 52843), (376, 52801), (379, 52792), (381, 52771), (383, 52750),

Gene: Neos5_58 Start: 53992, Stop: 52175, Start Num: 117

Candidate Starts for Neos5_58:

(34, 54376), (75, 54175), (Start: 117 @53992 has 46 MA's), (120, 53962), (159, 53782), (178, 53677), (185, 53629), (187, 53617), (192, 53587), (194, 53581), (207, 53518), (208, 53512), (214, 53461), (217, 53434), (218, 53425), (226, 53377), (243, 53272), (257, 53176), (265, 53125), (282, 52981), (287, 52942), (290, 52912), (292, 52885), (294, 52873), (302, 52777), (303, 52771), (305, 52762), (306, 52750), (311, 52678), (313, 52648), (317, 52630), (318, 52621), (326, 52552), (327, 52540), (329, 52519), (342, 52450), (345, 52435), (350, 52411), (351, 52390), (354, 52372), (355, 52366), (360, 52333), (361, 52327), (364, 52309), (365, 52297), (367, 52285), (369, 52273), (376, 52231), (381, 52201),

Gene: Newman_59 Start: 54059, Stop: 52200, Start Num: 105

Candidate Starts for Newman_59:

(Start: 97 @54083 has 5 MA's), (Start: 105 @54059 has 315 MA's), (Start: 116 @54035 has 6 MA's), (Start: 118 @54029 has 2 MA's), (123, 53987), (125, 53966), (149, 53852), (151, 53846), (155, 53816), (167, 53756), (171, 53735), (180, 53681), (183, 53669), (186, 53651), (188, 53639), (207, 53534), (214, 53477), (218, 53441), (219, 53429), (225, 53402), (226, 53393), (231, 53357), (241, 53300), (242, 53291), (243, 53288), (244, 53285), (289, 52928), (292, 52895), (295, 52874), (303, 52781),

(305, 52772), (309, 52709), (313, 52673), (314, 52670), (317, 52655), (326, 52577), (327, 52565), (329, 52544), (337, 52505), (351, 52415), (354, 52397), (355, 52391), (357, 52376), (361, 52352), (363, 52337), (364, 52334), (365, 52322), (369, 52298), (378, 52250), (381, 52226),

Gene: Nicole21_61 Start: 54312, Stop: 52453, Start Num: 105

Candidate Starts for Nicole21_61:

(Start: 97 @54336 has 5 MA's), (Start: 105 @54312 has 315 MA's), (Start: 116 @54288 has 6 MA's), (Start: 118 @54282 has 2 MA's), (123, 54240), (125, 54219), (149, 54105), (151, 54099), (155, 54069), (167, 54009), (171, 53988), (180, 53934), (183, 53922), (186, 53904), (188, 53892), (207, 53787), (214, 53730), (218, 53694), (219, 53682), (224, 53658), (226, 53646), (229, 53628), (231, 53610), (233, 53592), (241, 53553), (242, 53544), (243, 53541), (244, 53538), (289, 53181), (292, 53148), (295, 53127), (303, 53034), (305, 53025), (309, 52962), (313, 52926), (314, 52923), (317, 52908), (326, 52830), (327, 52818), (329, 52797), (337, 52758), (351, 52668), (354, 52650), (355, 52644), (357, 52629), (361, 52605), (363, 52590), (364, 52587), (365, 52575), (369, 52551), (378, 52503), (381, 52479),

Gene: Nigel_54 Start: 53588, Stop: 51732, Start Num: 96

Candidate Starts for Nigel_54:

(Start: 96 @53588 has 2 MA's), (Start: 103 @53561 has 5 MA's), (Start: 118 @53534 has 2 MA's), (120, 53507), (123, 53492), (141, 53420), (142, 53414), (149, 53366), (151, 53360), (153, 53348), (155, 53330), (157, 53321), (167, 53270), (168, 53267), (186, 53168), (191, 53138), (192, 53129), (193, 53126), (199, 53096), (214, 53003), (216, 52985), (218, 52967), (219, 52955), (225, 52928), (242, 52817), (243, 52814), (246, 52796), (248, 52784), (252, 52748), (253, 52742), (256, 52724), (265, 52667), (275, 52562), (282, 52523), (283, 52520), (287, 52484), (292, 52427), (302, 52319), (303, 52313), (305, 52304), (312, 52214), (313, 52205), (314, 52202), (317, 52187), (326, 52109), (327, 52097), (329, 52076), (331, 52067), (342, 52007), (348, 51980), (351, 51947), (354, 51929), (355, 51923), (361, 51884), (363, 51869), (364, 51866), (365, 51854), (369, 51830), (376, 51788), (378, 51782), (381, 51758),

Gene: Nozo_58 Start: 54443, Stop: 52626, Start Num: 117

Candidate Starts for Nozo_58:

(75, 54626), (Start: 117 @54443 has 46 MA's), (120, 54413), (159, 54233), (178, 54128), (185, 54080), (187, 54068), (192, 54038), (194, 54032), (207, 53969), (208, 53963), (214, 53912), (218, 53876), (226, 53828), (243, 53723), (257, 53627), (265, 53576), (282, 53432), (287, 53393), (290, 53363), (292, 53336), (294, 53324), (302, 53228), (303, 53222), (305, 53213), (306, 53201), (311, 53129), (313, 53099), (317, 53081), (318, 53072), (326, 53003), (327, 52991), (329, 52970), (342, 52901), (345, 52886), (350, 52862), (351, 52841), (354, 52823), (355, 52817), (360, 52784), (361, 52778), (364, 52760), (365, 52748), (367, 52736), (369, 52724), (376, 52682), (381, 52652),

Gene: Numberten_60 Start: 54256, Stop: 52397, Start Num: 105

Candidate Starts for Numberten_60:

(Start: 97 @54280 has 5 MA's), (Start: 105 @54256 has 315 MA's), (Start: 116 @54232 has 6 MA's), (Start: 118 @54226 has 2 MA's), (123, 54184), (125, 54163), (149, 54049), (151, 54043), (155, 54013), (167, 53953), (171, 53932), (180, 53878), (183, 53866), (186, 53848), (188, 53836), (207, 53731), (214, 53674), (218, 53638), (219, 53626), (224, 53602), (226, 53590), (229, 53572), (231, 53554), (233, 53536), (241, 53497), (242, 53488), (243, 53485), (244, 53482), (289, 53125), (292, 53092), (295, 53071), (303, 52978), (305, 52969), (309, 52906), (313, 52870), (314, 52867), (317, 52852), (326, 52774), (327, 52762), (329, 52741), (337, 52702), (351, 52612), (354, 52594), (355, 52588), (357, 52573), (361, 52549), (363, 52534), (364, 52531), (365, 52519), (369, 52495), (378, 52447), (381, 52423),

Gene: Nyala_59 Start: 54031, Stop: 52172, Start Num: 105

Candidate Starts for Nyala_59:

(Start: 97 @54055 has 5 MA's), (Start: 105 @54031 has 315 MA's), (Start: 116 @54007 has 6 MA's),
(Start: 118 @54001 has 2 MA's), (123, 53959), (125, 53938), (149, 53824), (151, 53818), (155, 53788),
(167, 53728), (171, 53707), (180, 53653), (183, 53641), (186, 53623), (188, 53611), (207, 53506),
(214, 53449), (218, 53413), (219, 53401), (225, 53374), (229, 53347), (231, 53329), (233, 53311),
(241, 53272), (242, 53263), (243, 53260), (289, 52900), (292, 52867), (295, 52846), (303, 52753),
(305, 52744), (309, 52681), (313, 52645), (314, 52642), (317, 52627), (326, 52549), (327, 52537),
(329, 52516), (337, 52477), (351, 52387), (354, 52369), (355, 52363), (357, 52348), (361, 52324),
(363, 52309), (364, 52306), (365, 52294), (369, 52270), (378, 52222), (381, 52198),

Gene: OSmaximus_62 Start: 54777, Stop: 52918, Start Num: 105

Candidate Starts for OSmaximus_62:

(Start: 97 @54801 has 5 MA's), (Start: 105 @54777 has 315 MA's), (Start: 116 @54753 has 6 MA's),
(Start: 118 @54747 has 2 MA's), (123, 54705), (125, 54684), (149, 54570), (151, 54564), (155, 54534),
(167, 54474), (171, 54453), (180, 54399), (183, 54387), (186, 54369), (188, 54357), (207, 54252),
(214, 54195), (218, 54159), (219, 54147), (224, 54123), (226, 54111), (229, 54093), (231, 54075),
(233, 54057), (241, 54018), (242, 54009), (243, 54006), (244, 54003), (289, 53646), (292, 53613),
(295, 53592), (303, 53499), (305, 53490), (309, 53427), (313, 53391), (314, 53388), (317, 53373),
(326, 53295), (327, 53283), (329, 53262), (337, 53223), (351, 53133), (354, 53115), (355, 53109),
(357, 53094), (361, 53070), (363, 53055), (364, 53052), (365, 53040), (369, 53016), (378, 52968),
(381, 52944),

Gene: Obutu_59 Start: 54042, Stop: 52225, Start Num: 117

Candidate Starts for Obutu_59:

(75, 54225), (Start: 117 @54042 has 46 MA's), (120, 54012), (159, 53832), (185, 53679), (187, 53667),
(192, 53637), (194, 53631), (207, 53568), (208, 53562), (214, 53511), (218, 53475), (226, 53427),
(243, 53322), (257, 53226), (265, 53175), (282, 53031), (287, 52992), (290, 52962), (292, 52935),
(294, 52923), (302, 52827), (303, 52821), (305, 52812), (306, 52800), (311, 52728), (313, 52698),
(317, 52680), (318, 52671), (326, 52602), (327, 52590), (329, 52569), (342, 52500), (345, 52485),
(350, 52461), (355, 52416), (361, 52377), (364, 52359), (365, 52347), (367, 52335), (369, 52323),
(376, 52281), (381, 52251),

Gene: Olak_59 Start: 54034, Stop: 52175, Start Num: 105

Candidate Starts for Olak_59:

(Start: 97 @54058 has 5 MA's), (Start: 105 @54034 has 315 MA's), (Start: 116 @54010 has 6 MA's),
(Start: 118 @54004 has 2 MA's), (123, 53962), (125, 53941), (149, 53827), (151, 53821), (155, 53791),
(167, 53731), (171, 53710), (180, 53656), (183, 53644), (186, 53626), (188, 53614), (207, 53509),
(214, 53452), (218, 53416), (219, 53404), (225, 53377), (229, 53350), (231, 53332), (233, 53314),
(241, 53275), (242, 53266), (243, 53263), (275, 53005), (289, 52903), (292, 52870), (295, 52849),
(303, 52756), (305, 52747), (309, 52684), (313, 52648), (314, 52645), (317, 52630), (326, 52552),
(327, 52540), (329, 52519), (337, 52480), (351, 52390), (354, 52372), (355, 52366), (357, 52351),
(361, 52327), (363, 52312), (364, 52309), (365, 52297), (369, 52273), (378, 52225), (381, 52201),

Gene: Oline_61 Start: 54135, Stop: 52276, Start Num: 105

Candidate Starts for Oline_61:

(Start: 97 @54159 has 5 MA's), (Start: 105 @54135 has 315 MA's), (Start: 116 @54111 has 6 MA's),
(Start: 118 @54105 has 2 MA's), (123, 54063), (125, 54042), (149, 53928), (151, 53922), (155, 53892),
(167, 53832), (171, 53811), (180, 53757), (183, 53745), (186, 53727), (188, 53715), (207, 53610),
(214, 53553), (218, 53517), (219, 53505), (224, 53481), (226, 53469), (229, 53451), (231, 53433),
(233, 53415), (241, 53376), (242, 53367), (243, 53364), (244, 53361), (289, 53004), (292, 52971),
(295, 52950), (303, 52857), (305, 52848), (309, 52785), (313, 52749), (314, 52746), (317, 52731),
(326, 52653), (327, 52641), (329, 52620), (337, 52581), (351, 52491), (354, 52473), (355, 52467),
(357, 52452), (361, 52428), (363, 52413), (364, 52410), (365, 52398), (369, 52374), (378, 52326),
(381, 52302), (382, 52287),

Gene: Olive_60 Start: 54247, Stop: 52388, Start Num: 105

Candidate Starts for Olive_60:

(Start: 97 @54271 has 5 MA's), (Start: 105 @54247 has 315 MA's), (Start: 116 @54223 has 6 MA's),
(Start: 118 @54217 has 2 MA's), (123, 54175), (125, 54154), (149, 54040), (151, 54034), (155, 54004),
(167, 53944), (171, 53923), (180, 53869), (183, 53857), (186, 53839), (188, 53827), (207, 53722),
(214, 53665), (218, 53629), (219, 53617), (224, 53593), (226, 53581), (229, 53563), (231, 53545),
(233, 53527), (241, 53488), (242, 53479), (243, 53476), (244, 53473), (289, 53116), (292, 53083),
(295, 53062), (303, 52969), (305, 52960), (309, 52897), (313, 52861), (314, 52858), (317, 52843),
(326, 52765), (327, 52753), (329, 52732), (337, 52693), (351, 52603), (354, 52585), (355, 52579),
(357, 52564), (361, 52540), (363, 52525), (364, 52522), (365, 52510), (369, 52486), (378, 52438),
(381, 52414),

Gene: OliverWalter_59 Start: 54066, Stop: 52207, Start Num: 105

Candidate Starts for OliverWalter_59:

(Start: 97 @54090 has 5 MA's), (Start: 105 @54066 has 315 MA's), (Start: 116 @54042 has 6 MA's),
(Start: 118 @54036 has 2 MA's), (123, 53994), (125, 53973), (149, 53859), (151, 53853), (155, 53823),
(167, 53763), (171, 53742), (180, 53688), (183, 53676), (186, 53658), (188, 53646), (207, 53541),
(214, 53484), (218, 53448), (219, 53436), (225, 53409), (226, 53400), (231, 53364), (241, 53307),
(242, 53298), (243, 53295), (244, 53292), (289, 52935), (292, 52902), (295, 52881), (303, 52788),
(305, 52779), (309, 52716), (313, 52680), (314, 52677), (317, 52662), (326, 52584), (327, 52572),
(329, 52551), (337, 52512), (351, 52422), (354, 52404), (355, 52398), (357, 52383), (361, 52359),
(363, 52344), (364, 52341), (365, 52329), (369, 52305), (378, 52257), (381, 52233),

Gene: Olivio_58 Start: 53901, Stop: 52084, Start Num: 117

Candidate Starts for Olivio_58:

(75, 54084), (Start: 117 @53901 has 46 MA's), (120, 53871), (159, 53691), (185, 53538), (187, 53526),
(192, 53496), (194, 53490), (207, 53427), (208, 53421), (214, 53370), (217, 53343), (218, 53334),
(226, 53286), (243, 53181), (257, 53085), (265, 53034), (282, 52890), (287, 52851), (290, 52821),
(292, 52794), (294, 52782), (302, 52686), (303, 52680), (305, 52671), (306, 52659), (311, 52587),
(313, 52557), (317, 52539), (318, 52530), (326, 52461), (327, 52449), (329, 52428), (342, 52359),
(345, 52344), (350, 52320), (351, 52299), (354, 52281), (355, 52275), (361, 52236), (364, 52218),
(365, 52206), (369, 52182), (376, 52140), (381, 52110),

Gene: Omniscient_61 Start: 54894, Stop: 53035, Start Num: 105

Candidate Starts for Omniscient_61:

(Start: 97 @54918 has 5 MA's), (Start: 105 @54894 has 315 MA's), (Start: 116 @54870 has 6 MA's),
(Start: 118 @54864 has 2 MA's), (123, 54822), (125, 54801), (149, 54687), (151, 54681), (155, 54651),
(167, 54591), (171, 54570), (180, 54516), (183, 54504), (186, 54486), (188, 54474), (207, 54369),
(214, 54312), (218, 54276), (219, 54264), (224, 54240), (226, 54228), (229, 54210), (231, 54192),
(233, 54174), (241, 54135), (242, 54126), (243, 54123), (244, 54120), (289, 53763), (292, 53730),
(295, 53709), (303, 53616), (305, 53607), (309, 53544), (313, 53508), (314, 53505), (317, 53490),
(326, 53412), (327, 53400), (329, 53379), (337, 53340), (351, 53250), (354, 53232), (355, 53226),
(357, 53211), (361, 53187), (363, 53172), (364, 53169), (365, 53157), (369, 53133), (378, 53085),
(381, 53061),

Gene: Oosterbaan_60 Start: 54313, Stop: 52454, Start Num: 105

Candidate Starts for Oosterbaan_60:

(Start: 97 @54337 has 5 MA's), (Start: 105 @54313 has 315 MA's), (Start: 116 @54289 has 6 MA's),
(Start: 118 @54283 has 2 MA's), (123, 54241), (125, 54220), (149, 54106), (151, 54100), (155, 54070),
(167, 54010), (171, 53989), (180, 53935), (183, 53923), (186, 53905), (188, 53893), (207, 53788),
(214, 53731), (218, 53695), (219, 53683), (225, 53656), (229, 53629), (231, 53611), (233, 53593),
(241, 53554), (242, 53545), (243, 53542), (275, 53284), (289, 53182), (292, 53149), (295, 53128),

(303, 53035), (305, 53026), (309, 52963), (313, 52927), (314, 52924), (317, 52909), (326, 52831), (327, 52819), (329, 52798), (337, 52759), (351, 52669), (354, 52651), (355, 52645), (357, 52630), (361, 52606), (363, 52591), (364, 52588), (365, 52576), (369, 52552), (378, 52504), (381, 52480),

Gene: Opia_57 Start: 52500, Stop: 50671, Start Num: 105

Candidate Starts for Opia_57:

(Start: 105 @52500 has 315 MA's), (Start: 118 @52473 has 2 MA's), (121, 52443), (123, 52431), (127, 52404), (128, 52401), (132, 52392), (141, 52374), (157, 52278), (167, 52227), (172, 52203), (175, 52179), (199, 52041), (205, 52017), (207, 52005), (214, 51948), (218, 51912), (219, 51900), (224, 51876), (235, 51792), (242, 51762), (243, 51759), (248, 51729), (268, 51585), (274, 51519), (280, 51480), (282, 51468), (284, 51447), (287, 51429), (292, 51372), (297, 51315), (301, 51288), (303, 51258), (305, 51249), (309, 51183), (312, 51156), (313, 51147), (317, 51129), (320, 51105), (326, 51051), (327, 51039), (329, 51018), (342, 50949), (351, 50889), (354, 50871), (358, 50838), (361, 50826), (363, 50811), (364, 50808), (365, 50796), (369, 50772), (370, 50769), (378, 50721), (379, 50718), (381, 50697), (383, 50676),

Gene: OrangeOswald_58 Start: 53684, Stop: 51867, Start Num: 117

Candidate Starts for OrangeOswald_58:

(75, 53867), (Start: 117 @53684 has 46 MA's), (120, 53654), (159, 53474), (178, 53369), (185, 53321), (187, 53309), (192, 53279), (194, 53273), (207, 53210), (208, 53204), (214, 53153), (218, 53117), (226, 53069), (243, 52964), (257, 52868), (265, 52817), (282, 52673), (287, 52634), (290, 52604), (292, 52577), (294, 52565), (302, 52469), (303, 52463), (305, 52454), (306, 52442), (311, 52370), (313, 52340), (317, 52322), (318, 52313), (326, 52244), (327, 52232), (329, 52211), (342, 52142), (345, 52127), (350, 52103), (351, 52082), (354, 52064), (355, 52058), (360, 52025), (361, 52019), (364, 52001), (365, 51989), (367, 51977), (369, 51965), (376, 51923), (381, 51893),

Gene: Orfeu_59 Start: 54570, Stop: 52711, Start Num: 105

Candidate Starts for Orfeu_59:

(Start: 97 @54594 has 5 MA's), (Start: 105 @54570 has 315 MA's), (Start: 116 @54546 has 6 MA's), (Start: 118 @54540 has 2 MA's), (123, 54498), (125, 54477), (149, 54363), (151, 54357), (155, 54327), (167, 54267), (171, 54246), (180, 54192), (183, 54180), (186, 54162), (188, 54150), (207, 54045), (214, 53988), (218, 53952), (219, 53940), (225, 53913), (229, 53886), (231, 53868), (233, 53850), (241, 53811), (242, 53802), (243, 53799), (244, 53796), (289, 53439), (292, 53406), (295, 53385), (303, 53292), (305, 53283), (309, 53220), (313, 53184), (314, 53181), (317, 53166), (326, 53088), (327, 53076), (329, 53055), (337, 53016), (351, 52926), (354, 52908), (355, 52902), (357, 52887), (361, 52863), (363, 52848), (364, 52845), (365, 52833), (369, 52809), (378, 52761), (381, 52737),

Gene: Orion_62 Start: 53975, Stop: 52116, Start Num: 105

Candidate Starts for Orion_62:

(Start: 97 @53999 has 5 MA's), (Start: 105 @53975 has 315 MA's), (Start: 116 @53951 has 6 MA's), (Start: 118 @53945 has 2 MA's), (123, 53903), (125, 53882), (149, 53768), (151, 53762), (155, 53732), (167, 53672), (171, 53651), (180, 53597), (183, 53585), (186, 53567), (188, 53555), (207, 53450), (214, 53393), (218, 53357), (219, 53345), (225, 53318), (229, 53291), (231, 53273), (233, 53255), (241, 53216), (242, 53207), (243, 53204), (275, 52946), (289, 52844), (292, 52811), (295, 52790), (303, 52697), (305, 52688), (309, 52625), (313, 52589), (314, 52586), (317, 52571), (326, 52493), (327, 52481), (329, 52460), (337, 52421), (351, 52331), (354, 52313), (355, 52307), (357, 52292), (361, 52268), (363, 52253), (364, 52250), (365, 52238), (369, 52214), (378, 52166), (381, 52142),

Gene: Orwigg_60 Start: 53955, Stop: 52096, Start Num: 105

Candidate Starts for Orwigg_60:

(Start: 97 @53979 has 5 MA's), (Start: 105 @53955 has 315 MA's), (Start: 116 @53931 has 6 MA's), (Start: 118 @53925 has 2 MA's), (123, 53883), (125, 53862), (149, 53748), (151, 53742), (155, 53712), (167, 53652), (171, 53631), (180, 53577), (183, 53565), (186, 53547), (188, 53535), (207, 53430),

(214, 53373), (218, 53337), (219, 53325), (224, 53301), (226, 53289), (229, 53271), (231, 53253), (233, 53235), (241, 53196), (242, 53187), (243, 53184), (244, 53181), (275, 52926), (289, 52824), (292, 52791), (295, 52770), (303, 52677), (305, 52668), (309, 52605), (313, 52569), (314, 52566), (317, 52551), (326, 52473), (327, 52461), (329, 52440), (337, 52401), (351, 52311), (354, 52293), (355, 52287), (357, 52272), (361, 52248), (363, 52233), (364, 52230), (365, 52218), (369, 52194), (378, 52146), (381, 52122),

Gene: PG1_61 Start: 54546, Stop: 52687, Start Num: 105

Candidate Starts for PG1_61:

(Start: 97 @54570 has 5 MA's), (Start: 105 @54546 has 315 MA's), (Start: 116 @54522 has 6 MA's), (Start: 118 @54516 has 2 MA's), (123, 54474), (125, 54453), (149, 54339), (151, 54333), (155, 54303), (167, 54243), (171, 54222), (180, 54168), (183, 54156), (186, 54138), (188, 54126), (207, 54021), (214, 53964), (218, 53928), (219, 53916), (225, 53889), (229, 53862), (231, 53844), (233, 53826), (241, 53787), (242, 53778), (243, 53775), (275, 53517), (289, 53415), (292, 53382), (295, 53361), (303, 53268), (305, 53259), (309, 53196), (313, 53160), (314, 53157), (317, 53142), (326, 53064), (327, 53052), (329, 53031), (337, 52992), (351, 52902), (354, 52884), (355, 52878), (357, 52863), (361, 52839), (363, 52824), (364, 52821), (365, 52809), (369, 52785), (378, 52737), (381, 52713),

Gene: Pacifista_59 Start: 54030, Stop: 52171, Start Num: 105

Candidate Starts for Pacifista_59:

(Start: 97 @54054 has 5 MA's), (Start: 105 @54030 has 315 MA's), (Start: 116 @54006 has 6 MA's), (Start: 118 @54000 has 2 MA's), (123, 53958), (125, 53937), (149, 53823), (151, 53817), (155, 53787), (167, 53727), (171, 53706), (180, 53652), (183, 53640), (186, 53622), (188, 53610), (207, 53505), (214, 53448), (218, 53412), (219, 53400), (224, 53376), (226, 53364), (229, 53346), (231, 53328), (233, 53310), (241, 53271), (242, 53262), (243, 53259), (244, 53256), (289, 52899), (292, 52866), (295, 52845), (303, 52752), (305, 52743), (309, 52680), (313, 52644), (314, 52641), (317, 52626), (326, 52548), (327, 52536), (329, 52515), (337, 52476), (351, 52386), (354, 52368), (355, 52362), (357, 52347), (361, 52323), (363, 52308), (364, 52305), (365, 52293), (369, 52269), (378, 52221), (381, 52197),

Gene: PallasAthena_62 Start: 54032, Stop: 52173, Start Num: 105

Candidate Starts for PallasAthena_62:

(Start: 97 @54056 has 5 MA's), (Start: 105 @54032 has 315 MA's), (Start: 116 @54008 has 6 MA's), (Start: 118 @54002 has 2 MA's), (123, 53960), (125, 53939), (149, 53825), (151, 53819), (155, 53789), (167, 53729), (171, 53708), (180, 53654), (183, 53642), (186, 53624), (188, 53612), (207, 53507), (214, 53450), (218, 53414), (219, 53402), (224, 53378), (226, 53366), (229, 53348), (231, 53330), (233, 53312), (241, 53273), (242, 53264), (243, 53261), (244, 53258), (289, 52901), (292, 52868), (295, 52847), (303, 52754), (305, 52745), (309, 52682), (313, 52646), (314, 52643), (317, 52628), (326, 52550), (327, 52538), (329, 52517), (337, 52478), (351, 52388), (354, 52370), (355, 52364), (357, 52349), (361, 52325), (363, 52310), (364, 52307), (365, 52295), (369, 52271), (378, 52223), (381, 52199),

Gene: PenguinLover67_56 Start: 54688, Stop: 52865, Start Num: 108

Candidate Starts for PenguinLover67_56:

(107, 54691), (Start: 108 @54688 has 2 MA's), (Start: 118 @54667 has 2 MA's), (120, 54640), (128, 54595), (136, 54586), (141, 54568), (157, 54475), (183, 54337), (187, 54313), (191, 54292), (207, 54205), (214, 54148), (218, 54112), (219, 54100), (224, 54076), (225, 54073), (226, 54064), (242, 53956), (243, 53953), (244, 53950), (248, 53923), (272, 53722), (282, 53656), (283, 53653), (284, 53635), (287, 53617), (289, 53593), (290, 53587), (292, 53560), (302, 53452), (303, 53446), (305, 53437), (313, 53338), (314, 53335), (317, 53320), (326, 53242), (327, 53230), (329, 53209), (333, 53191), (339, 53161), (345, 53125), (351, 53080), (354, 53062), (355, 53056), (356, 53047), (361, 53017), (362, 53005), (363, 53002), (369, 52963), (373, 52939), (378, 52915), (381, 52891), (383, 52870),

Gene: Phaedrur_54 Start: 53117, Stop: 51300, Start Num: 117

Candidate Starts for Phaedrur_54:

(75, 53300), (Start: 117 @53117 has 46 MA's), (120, 53087), (159, 52907), (185, 52754), (187, 52742), (192, 52712), (194, 52706), (207, 52643), (208, 52637), (214, 52586), (217, 52559), (218, 52550), (226, 52502), (243, 52397), (257, 52301), (265, 52250), (282, 52106), (287, 52067), (290, 52037), (292, 52010), (294, 51998), (302, 51902), (303, 51896), (305, 51887), (306, 51875), (311, 51803), (313, 51773), (317, 51755), (318, 51746), (326, 51677), (327, 51665), (329, 51644), (342, 51575), (345, 51560), (350, 51536), (351, 51515), (355, 51491), (361, 51452), (364, 51434), (365, 51422), (367, 51410), (369, 51398), (376, 51356), (381, 51326),

Gene: Phamished_62 Start: 54237, Stop: 52378, Start Num: 105

Candidate Starts for Phamished_62:

(Start: 97 @54261 has 5 MA's), (Start: 105 @54237 has 315 MA's), (Start: 116 @54213 has 6 MA's), (Start: 118 @54207 has 2 MA's), (123, 54165), (125, 54144), (149, 54030), (151, 54024), (155, 53994), (167, 53934), (171, 53913), (180, 53859), (183, 53847), (186, 53829), (188, 53817), (207, 53712), (214, 53655), (218, 53619), (219, 53607), (224, 53583), (226, 53571), (229, 53553), (231, 53535), (233, 53517), (241, 53478), (242, 53469), (243, 53466), (244, 53463), (289, 53106), (292, 53073), (295, 53052), (303, 52959), (305, 52950), (309, 52887), (313, 52851), (314, 52848), (317, 52833), (326, 52755), (327, 52743), (329, 52722), (337, 52683), (351, 52593), (354, 52575), (355, 52569), (357, 52554), (361, 52530), (363, 52515), (364, 52512), (365, 52500), (369, 52476), (378, 52428), (381, 52404),

Gene: Phantasmagoria_57 Start: 52498, Stop: 50669, Start Num: 105

Candidate Starts for Phantasmagoria_57:

(Start: 105 @52498 has 315 MA's), (Start: 118 @52471 has 2 MA's), (121, 52441), (123, 52429), (127, 52402), (128, 52399), (132, 52390), (141, 52372), (157, 52276), (167, 52225), (172, 52201), (175, 52177), (199, 52039), (204, 52024), (205, 52015), (207, 52003), (214, 51946), (218, 51910), (219, 51898), (224, 51874), (235, 51790), (242, 51760), (243, 51757), (248, 51727), (268, 51583), (274, 51517), (282, 51466), (284, 51445), (287, 51427), (292, 51370), (297, 51313), (301, 51286), (303, 51256), (305, 51247), (309, 51181), (312, 51154), (313, 51145), (317, 51127), (320, 51103), (326, 51049), (327, 51037), (329, 51016), (342, 50947), (351, 50887), (354, 50869), (358, 50836), (361, 50824), (363, 50809), (364, 50806), (365, 50794), (369, 50770), (370, 50767), (378, 50719), (379, 50716), (381, 50695), (383, 50674),

Gene: Phareon_59 Start: 53752, Stop: 51893, Start Num: 105

Candidate Starts for Phareon_59:

(Start: 97 @53776 has 5 MA's), (Start: 105 @53752 has 315 MA's), (Start: 116 @53728 has 6 MA's), (Start: 118 @53722 has 2 MA's), (123, 53680), (125, 53659), (149, 53545), (151, 53539), (155, 53509), (167, 53449), (171, 53428), (180, 53374), (183, 53362), (186, 53344), (188, 53332), (207, 53227), (214, 53170), (218, 53134), (219, 53122), (224, 53098), (226, 53086), (229, 53068), (231, 53050), (233, 53032), (241, 52993), (242, 52984), (243, 52981), (244, 52978), (289, 52621), (292, 52588), (295, 52567), (303, 52474), (305, 52465), (309, 52402), (313, 52366), (314, 52363), (317, 52348), (326, 52270), (327, 52258), (329, 52237), (337, 52198), (351, 52108), (354, 52090), (355, 52084), (357, 52069), (361, 52045), (363, 52030), (364, 52027), (365, 52015), (369, 51991), (378, 51943), (381, 51919),

Gene: PhatCats2014_61 Start: 54551, Stop: 52692, Start Num: 105

Candidate Starts for PhatCats2014_61:

(Start: 97 @54575 has 5 MA's), (Start: 105 @54551 has 315 MA's), (Start: 116 @54527 has 6 MA's), (Start: 118 @54521 has 2 MA's), (123, 54479), (125, 54458), (149, 54344), (151, 54338), (155, 54308), (167, 54248), (171, 54227), (180, 54173), (183, 54161), (186, 54143), (188, 54131), (207, 54026), (214, 53969), (218, 53933), (219, 53921), (225, 53894), (229, 53867), (231, 53849), (233, 53831),

(241, 53792), (242, 53783), (243, 53780), (275, 53522), (289, 53420), (292, 53387), (295, 53366), (303, 53273), (305, 53264), (309, 53201), (313, 53165), (314, 53162), (317, 53147), (326, 53069), (327, 53057), (329, 53036), (337, 52997), (351, 52907), (354, 52889), (355, 52883), (357, 52868), (361, 52844), (363, 52829), (364, 52826), (365, 52814), (369, 52790), (378, 52742), (381, 52718),

Gene: PhatLouie_62 Start: 54569, Stop: 52710, Start Num: 105

Candidate Starts for PhatLouie_62:

(Start: 97 @54593 has 5 MA's), (Start: 105 @54569 has 315 MA's), (Start: 116 @54545 has 6 MA's), (Start: 118 @54539 has 2 MA's), (123, 54497), (125, 54476), (149, 54362), (151, 54356), (155, 54326), (167, 54266), (171, 54245), (180, 54191), (183, 54179), (186, 54161), (188, 54149), (207, 54044), (214, 53987), (218, 53951), (219, 53939), (224, 53915), (226, 53903), (229, 53885), (231, 53867), (233, 53849), (241, 53810), (242, 53801), (243, 53798), (244, 53795), (289, 53438), (292, 53405), (295, 53384), (303, 53291), (305, 53282), (309, 53219), (313, 53183), (314, 53180), (317, 53165), (326, 53087), (327, 53075), (329, 53054), (337, 53015), (351, 52925), (354, 52907), (355, 52901), (357, 52886), (361, 52862), (363, 52847), (364, 52844), (365, 52832), (369, 52808), (378, 52760), (381, 52736),

Gene: Phayeta_60 Start: 53944, Stop: 52127, Start Num: 117

Candidate Starts for Phayeta_60:

(75, 54127), (Start: 117 @53944 has 46 MA's), (120, 53914), (159, 53734), (185, 53581), (187, 53569), (192, 53539), (194, 53533), (207, 53470), (208, 53464), (214, 53413), (218, 53377), (226, 53329), (243, 53224), (257, 53128), (265, 53077), (282, 52933), (287, 52894), (290, 52864), (292, 52837), (294, 52825), (302, 52729), (303, 52723), (305, 52714), (306, 52702), (311, 52630), (313, 52600), (317, 52582), (318, 52573), (326, 52504), (327, 52492), (329, 52471), (342, 52402), (345, 52387), (350, 52363), (351, 52342), (354, 52324), (355, 52318), (360, 52285), (361, 52279), (364, 52261), (365, 52249), (367, 52237), (369, 52225), (376, 52183), (381, 52153),

Gene: Phelemich_56 Start: 54570, Stop: 52741, Start Num: 99

Candidate Starts for Phelemich_56:

(Start: 99 @54570 has 12 MA's), (112, 54549), (Start: 117 @54540 has 46 MA's), (120, 54513), (123, 54498), (141, 54441), (171, 54273), (185, 54195), (188, 54180), (191, 54162), (193, 54150), (201, 54114), (207, 54084), (218, 53991), (219, 53979), (220, 53976), (224, 53955), (225, 53952), (226, 53943), (229, 53925), (238, 53862), (243, 53838), (259, 53733), (271, 53610), (275, 53586), (280, 53559), (282, 53547), (283, 53544), (284, 53526), (287, 53508), (290, 53478), (292, 53451), (296, 53400), (303, 53337), (305, 53328), (311, 53244), (314, 53211), (317, 53196), (323, 53136), (326, 53118), (327, 53106), (329, 53085), (331, 53076), (332, 53073), (351, 52956), (354, 52938), (355, 52932), (361, 52893), (362, 52881), (363, 52878), (365, 52863), (367, 52851), (369, 52839), (376, 52797), (379, 52788), (381, 52767), (383, 52746),

Gene: PhenghisKhan_61 Start: 54194, Stop: 52335, Start Num: 105

Candidate Starts for PhenghisKhan_61:

(Start: 97 @54218 has 5 MA's), (Start: 105 @54194 has 315 MA's), (Start: 116 @54170 has 6 MA's), (Start: 118 @54164 has 2 MA's), (123, 54122), (125, 54101), (149, 53987), (151, 53981), (155, 53951), (167, 53891), (171, 53870), (180, 53816), (183, 53804), (186, 53786), (188, 53774), (207, 53669), (214, 53612), (218, 53576), (219, 53564), (224, 53540), (226, 53528), (229, 53510), (231, 53492), (233, 53474), (241, 53435), (242, 53426), (243, 53423), (244, 53420), (275, 53165), (289, 53063), (292, 53030), (295, 53009), (303, 52916), (305, 52907), (309, 52844), (313, 52808), (314, 52805), (317, 52790), (326, 52712), (327, 52700), (329, 52679), (337, 52640), (351, 52550), (354, 52532), (355, 52526), (357, 52511), (361, 52487), (363, 52472), (364, 52469), (365, 52457), (369, 52433), (372, 52412), (378, 52385), (381, 52361),

Gene: Pherdinand_62 Start: 54314, Stop: 52455, Start Num: 105

Candidate Starts for Pherdinand_62:

(Start: 97 @54338 has 5 MA's), (Start: 105 @54314 has 315 MA's), (Start: 116 @54290 has 6 MA's),
(Start: 118 @54284 has 2 MA's), (123, 54242), (125, 54221), (149, 54107), (151, 54101), (155, 54071),
(167, 54011), (171, 53990), (180, 53936), (183, 53924), (186, 53906), (188, 53894), (207, 53789),
(214, 53732), (218, 53696), (219, 53684), (224, 53660), (226, 53648), (229, 53630), (231, 53612),
(233, 53594), (241, 53555), (242, 53546), (243, 53543), (244, 53540), (289, 53183), (292, 53150),
(295, 53129), (303, 53036), (305, 53027), (309, 52964), (313, 52928), (314, 52925), (317, 52910),
(326, 52832), (327, 52820), (329, 52799), (337, 52760), (351, 52670), (354, 52652), (355, 52646),
(357, 52631), (361, 52607), (363, 52592), (364, 52589), (365, 52577), (369, 52553), (378, 52505),
(381, 52481),

Gene: Phergie_62 Start: 54186, Stop: 52327, Start Num: 105

Candidate Starts for Phergie_62:

(Start: 97 @54210 has 5 MA's), (Start: 105 @54186 has 315 MA's), (Start: 116 @54162 has 6 MA's),
(Start: 118 @54156 has 2 MA's), (123, 54114), (125, 54093), (149, 53979), (151, 53973), (155, 53943),
(167, 53883), (171, 53862), (180, 53808), (183, 53796), (186, 53778), (188, 53766), (207, 53661),
(214, 53604), (218, 53568), (219, 53556), (224, 53532), (226, 53520), (229, 53502), (231, 53484),
(233, 53466), (241, 53427), (242, 53418), (243, 53415), (244, 53412), (275, 53157), (289, 53055),
(292, 53022), (295, 53001), (303, 52908), (305, 52899), (309, 52836), (313, 52800), (314, 52797),
(317, 52782), (326, 52704), (327, 52692), (329, 52671), (337, 52632), (351, 52542), (354, 52524),
(355, 52518), (357, 52503), (361, 52479), (363, 52464), (364, 52461), (365, 52449), (369, 52425),
(372, 52404), (378, 52377), (381, 52353),

Gene: Philly_57 Start: 53504, Stop: 51687, Start Num: 117

Candidate Starts for Philly_57:

(75, 53687), (Start: 117 @53504 has 46 MA's), (120, 53474), (159, 53294), (185, 53141), (187, 53129),
(192, 53099), (194, 53093), (207, 53030), (208, 53024), (214, 52973), (217, 52946), (218, 52937),
(226, 52889), (243, 52784), (257, 52688), (265, 52637), (282, 52493), (287, 52454), (290, 52424),
(292, 52397), (294, 52385), (302, 52289), (303, 52283), (305, 52274), (306, 52262), (311, 52190),
(313, 52160), (317, 52142), (318, 52133), (326, 52064), (327, 52052), (329, 52031), (342, 51962),
(345, 51947), (350, 51923), (351, 51902), (354, 51884), (355, 51878), (360, 51845), (361, 51839),
(364, 51821), (365, 51809), (367, 51797), (369, 51785), (376, 51743), (381, 51713),

Gene: Phipps_60 Start: 53823, Stop: 51964, Start Num: 105

Candidate Starts for Phipps_60:

(Start: 97 @53847 has 5 MA's), (Start: 105 @53823 has 315 MA's), (Start: 116 @53799 has 6 MA's),
(Start: 118 @53793 has 2 MA's), (123, 53751), (125, 53730), (149, 53616), (151, 53610), (155, 53580),
(167, 53520), (171, 53499), (180, 53445), (183, 53433), (186, 53415), (188, 53403), (207, 53298),
(214, 53241), (218, 53205), (219, 53193), (225, 53166), (229, 53139), (231, 53121), (233, 53103),
(241, 53064), (242, 53055), (243, 53052), (275, 52794), (289, 52692), (292, 52659), (295, 52638),
(303, 52545), (305, 52536), (309, 52473), (313, 52437), (314, 52434), (317, 52419), (326, 52341),
(327, 52329), (329, 52308), (337, 52269), (351, 52179), (354, 52161), (355, 52155), (357, 52140),
(361, 52116), (363, 52101), (364, 52098), (365, 52086), (369, 52062), (378, 52014), (381, 51990),

Gene: Phleuron_61 Start: 54187, Stop: 52328, Start Num: 105

Candidate Starts for Phleuron_61:

(Start: 97 @54211 has 5 MA's), (Start: 105 @54187 has 315 MA's), (Start: 116 @54163 has 6 MA's),
(Start: 118 @54157 has 2 MA's), (123, 54115), (125, 54094), (149, 53980), (151, 53974), (155, 53944),
(167, 53884), (171, 53863), (180, 53809), (183, 53797), (186, 53779), (188, 53767), (207, 53662),
(214, 53605), (218, 53569), (219, 53557), (224, 53533), (226, 53521), (229, 53503), (231, 53485),
(233, 53467), (241, 53428), (242, 53419), (243, 53416), (244, 53413), (289, 53056), (292, 53023),
(295, 53002), (303, 52909), (305, 52900), (309, 52837), (313, 52801), (314, 52798), (317, 52783),
(326, 52705), (327, 52693), (329, 52672), (337, 52633), (351, 52543), (354, 52525), (355, 52519),
(357, 52504), (361, 52480), (363, 52465), (364, 52462), (365, 52450), (369, 52426), (378, 52378),

(381, 52354),

Gene: Phlyer_58 Start: 54386, Stop: 52569, Start Num: 117

Candidate Starts for Phlyer_58:

(75, 54569), (Start: 117 @54386 has 46 MA's), (120, 54356), (159, 54176), (185, 54023), (187, 54011), (192, 53981), (194, 53975), (207, 53912), (208, 53906), (214, 53855), (217, 53828), (218, 53819), (226, 53771), (243, 53666), (257, 53570), (265, 53519), (282, 53375), (287, 53336), (290, 53306), (292, 53279), (294, 53267), (302, 53171), (303, 53165), (305, 53156), (306, 53144), (311, 53072), (313, 53042), (317, 53024), (318, 53015), (326, 52946), (327, 52934), (329, 52913), (342, 52844), (345, 52829), (350, 52805), (351, 52784), (354, 52766), (355, 52760), (360, 52727), (361, 52721), (364, 52703), (365, 52691), (367, 52679), (369, 52667), (376, 52625), (381, 52595),

Gene: PhrankReynolds_60 Start: 54191, Stop: 52332, Start Num: 105

Candidate Starts for PhrankReynolds_60:

(Start: 97 @54215 has 5 MA's), (Start: 105 @54191 has 315 MA's), (Start: 116 @54167 has 6 MA's), (Start: 118 @54161 has 2 MA's), (123, 54119), (125, 54098), (149, 53984), (151, 53978), (155, 53948), (167, 53888), (171, 53867), (180, 53813), (183, 53801), (186, 53783), (188, 53771), (207, 53666), (214, 53609), (218, 53573), (219, 53561), (224, 53537), (226, 53525), (229, 53507), (231, 53489), (233, 53471), (241, 53432), (242, 53423), (243, 53420), (244, 53417), (275, 53162), (289, 53060), (292, 53027), (295, 53006), (303, 52913), (305, 52904), (309, 52841), (313, 52805), (314, 52802), (317, 52787), (326, 52709), (327, 52697), (329, 52676), (337, 52637), (351, 52547), (354, 52529), (355, 52523), (357, 52508), (361, 52484), (363, 52469), (364, 52466), (365, 52454), (369, 52430), (372, 52409), (378, 52382), (381, 52358),

Gene: PhrodoBaggins_61 Start: 54411, Stop: 52552, Start Num: 105

Candidate Starts for PhrodoBaggins_61:

(Start: 97 @54435 has 5 MA's), (Start: 105 @54411 has 315 MA's), (Start: 116 @54387 has 6 MA's), (Start: 118 @54381 has 2 MA's), (123, 54339), (125, 54318), (149, 54204), (151, 54198), (155, 54168), (167, 54108), (171, 54087), (180, 54033), (183, 54021), (186, 54003), (188, 53991), (207, 53886), (214, 53829), (218, 53793), (219, 53781), (225, 53754), (229, 53727), (231, 53709), (233, 53691), (241, 53652), (242, 53643), (243, 53640), (244, 53637), (289, 53280), (292, 53247), (295, 53226), (303, 53133), (305, 53124), (309, 53061), (313, 53025), (314, 53022), (317, 53007), (326, 52929), (327, 52917), (329, 52896), (337, 52857), (351, 52767), (354, 52749), (355, 52743), (357, 52728), (361, 52704), (363, 52689), (364, 52686), (365, 52674), (369, 52650), (378, 52602), (381, 52578),

Gene: Phunky_59 Start: 54049, Stop: 52190, Start Num: 105

Candidate Starts for Phunky_59:

(Start: 97 @54073 has 5 MA's), (Start: 105 @54049 has 315 MA's), (Start: 116 @54025 has 6 MA's), (Start: 118 @54019 has 2 MA's), (123, 53977), (125, 53956), (149, 53842), (151, 53836), (155, 53806), (167, 53746), (171, 53725), (180, 53671), (183, 53659), (186, 53641), (188, 53629), (207, 53524), (214, 53467), (218, 53431), (219, 53419), (224, 53395), (226, 53383), (229, 53365), (231, 53347), (233, 53329), (241, 53290), (242, 53281), (243, 53278), (244, 53275), (289, 52918), (292, 52885), (295, 52864), (303, 52771), (305, 52762), (309, 52699), (313, 52663), (314, 52660), (317, 52645), (326, 52567), (327, 52555), (329, 52534), (337, 52495), (351, 52405), (354, 52387), (355, 52381), (357, 52366), (361, 52342), (363, 52327), (364, 52324), (365, 52312), (369, 52288), (378, 52240), (381, 52216),

Gene: Piglet_0060 Start: 54547, Stop: 52664, Start Num: 97

Candidate Starts for Piglet_0060:

(Start: 97 @54547 has 5 MA's), (Start: 105 @54523 has 315 MA's), (Start: 116 @54499 has 6 MA's), (Start: 118 @54493 has 2 MA's), (123, 54451), (125, 54430), (149, 54316), (151, 54310), (155, 54280), (167, 54220), (171, 54199), (180, 54145), (183, 54133), (186, 54115), (188, 54103), (207, 53998), (214, 53941), (218, 53905), (219, 53893), (225, 53866), (229, 53839), (231, 53821), (233, 53803),

(241, 53764), (242, 53755), (243, 53752), (275, 53494), (289, 53392), (292, 53359), (295, 53338), (303, 53245), (305, 53236), (309, 53173), (313, 53137), (314, 53134), (317, 53119), (326, 53041), (327, 53029), (329, 53008), (337, 52969), (351, 52879), (354, 52861), (355, 52855), (357, 52840), (361, 52816), (363, 52801), (364, 52798), (365, 52786), (369, 52762), (378, 52714), (381, 52690),

Gene: Pine5_49 Start: 43969, Stop: 42167, Start Num: 115

Candidate Starts for Pine5_49:

(Start: 115 @43969 has 14 MA's), (123, 43918), (160, 43756), (180, 43642), (184, 43627), (188, 43603), (189, 43600), (190, 43591), (193, 43576), (194, 43573), (197, 43549), (199, 43543), (201, 43537), (203, 43531), (205, 43519), (208, 43501), (209, 43498), (236, 43291), (240, 43279), (243, 43261), (248, 43231), (250, 43216), (252, 43195), (265, 43120), (272, 43036), (274, 43027), (295, 42856), (300, 42799), (305, 42754), (320, 42613), (326, 42559), (327, 42547), (343, 42436), (361, 42322), (363, 42307), (369, 42268), (372, 42247), (383, 42172),

Gene: PinheadLarry_61 Start: 54548, Stop: 52689, Start Num: 105

Candidate Starts for PinheadLarry_61:

(Start: 97 @54572 has 5 MA's), (Start: 105 @54548 has 315 MA's), (Start: 116 @54524 has 6 MA's), (Start: 118 @54518 has 2 MA's), (123, 54476), (125, 54455), (149, 54341), (151, 54335), (155, 54305), (167, 54245), (171, 54224), (180, 54170), (183, 54158), (186, 54140), (188, 54128), (207, 54023), (214, 53966), (218, 53930), (219, 53918), (225, 53891), (229, 53864), (231, 53846), (233, 53828), (241, 53789), (242, 53780), (243, 53777), (275, 53519), (289, 53417), (292, 53384), (295, 53363), (303, 53270), (305, 53261), (309, 53198), (313, 53162), (314, 53159), (317, 53144), (326, 53066), (327, 53054), (329, 53033), (337, 52994), (351, 52904), (354, 52886), (355, 52880), (357, 52865), (361, 52841), (363, 52826), (364, 52823), (365, 52811), (369, 52787), (378, 52739), (381, 52715),

Gene: Pinkman_60 Start: 54129, Stop: 52270, Start Num: 105

Candidate Starts for Pinkman_60:

(Start: 97 @54153 has 5 MA's), (Start: 105 @54129 has 315 MA's), (Start: 116 @54105 has 6 MA's), (Start: 118 @54099 has 2 MA's), (123, 54057), (125, 54036), (149, 53922), (151, 53916), (155, 53886), (167, 53826), (171, 53805), (180, 53751), (183, 53739), (186, 53721), (188, 53709), (207, 53604), (214, 53547), (218, 53511), (219, 53499), (225, 53472), (231, 53427), (241, 53370), (242, 53361), (243, 53358), (275, 53100), (289, 52998), (292, 52965), (295, 52944), (303, 52851), (305, 52842), (309, 52779), (313, 52743), (314, 52740), (317, 52725), (326, 52647), (327, 52635), (329, 52614), (337, 52575), (351, 52485), (354, 52467), (355, 52461), (357, 52446), (361, 52422), (363, 52407), (364, 52404), (365, 52392), (369, 52368), (372, 52347), (378, 52320), (381, 52296), (382, 52281),

Gene: Pipefish_59 Start: 54415, Stop: 52598, Start Num: 117

Candidate Starts for Pipefish_59:

(75, 54598), (Start: 117 @54415 has 46 MA's), (120, 54385), (159, 54205), (185, 54052), (187, 54040), (192, 54010), (194, 54004), (207, 53941), (208, 53935), (214, 53884), (218, 53848), (226, 53800), (243, 53695), (257, 53599), (265, 53548), (282, 53404), (287, 53365), (290, 53335), (292, 53308), (294, 53296), (302, 53200), (303, 53194), (305, 53185), (306, 53173), (311, 53101), (313, 53071), (317, 53053), (318, 53044), (326, 52975), (327, 52963), (329, 52942), (342, 52873), (345, 52858), (350, 52834), (355, 52789), (360, 52756), (361, 52750), (364, 52732), (365, 52720), (367, 52708), (369, 52696), (376, 52654), (381, 52624),

Gene: Pipsqueak_59 Start: 53979, Stop: 52120, Start Num: 105

Candidate Starts for Pipsqueak_59:

(Start: 97 @54003 has 5 MA's), (Start: 105 @53979 has 315 MA's), (Start: 116 @53955 has 6 MA's), (Start: 118 @53949 has 2 MA's), (123, 53907), (125, 53886), (149, 53772), (151, 53766), (155, 53736), (167, 53676), (171, 53655), (180, 53601), (183, 53589), (186, 53571), (188, 53559), (207, 53454), (214, 53397), (218, 53361), (219, 53349), (224, 53325), (226, 53313), (229, 53295), (231, 53277), (233, 53259), (241, 53220), (242, 53211), (243, 53208), (244, 53205), (289, 52848), (292, 52815),

(295, 52794), (303, 52701), (305, 52692), (309, 52629), (313, 52593), (314, 52590), (317, 52575), (326, 52497), (327, 52485), (329, 52464), (337, 52425), (351, 52335), (354, 52317), (355, 52311), (357, 52296), (361, 52272), (363, 52257), (364, 52254), (365, 52242), (369, 52218), (378, 52170), (381, 52146),

Gene: Placalicious_61 Start: 55080, Stop: 53221, Start Num: 105

Candidate Starts for Placalicious_61:

(Start: 97 @55104 has 5 MA's), (Start: 105 @55080 has 315 MA's), (Start: 116 @55056 has 6 MA's), (Start: 118 @55050 has 2 MA's), (123, 55008), (125, 54987), (149, 54873), (151, 54867), (155, 54837), (167, 54777), (171, 54756), (180, 54702), (183, 54690), (186, 54672), (207, 54555), (214, 54498), (218, 54462), (219, 54450), (225, 54423), (229, 54396), (231, 54378), (233, 54360), (241, 54321), (242, 54312), (243, 54309), (275, 54051), (289, 53949), (292, 53916), (295, 53895), (303, 53802), (305, 53793), (309, 53730), (313, 53694), (314, 53691), (317, 53676), (326, 53598), (327, 53586), (329, 53565), (337, 53526), (351, 53436), (354, 53418), (355, 53412), (357, 53397), (361, 53373), (363, 53358), (364, 53355), (365, 53343), (369, 53319), (378, 53271), (381, 53247),

Gene: Plata_61 Start: 54281, Stop: 52422, Start Num: 105

Candidate Starts for Plata_61:

(Start: 97 @54305 has 5 MA's), (Start: 105 @54281 has 315 MA's), (Start: 116 @54257 has 6 MA's), (Start: 118 @54251 has 2 MA's), (123, 54209), (125, 54188), (149, 54074), (151, 54068), (155, 54038), (167, 53978), (171, 53957), (180, 53903), (183, 53891), (186, 53873), (188, 53861), (207, 53756), (214, 53699), (218, 53663), (219, 53651), (224, 53627), (226, 53615), (229, 53597), (231, 53579), (233, 53561), (241, 53522), (242, 53513), (243, 53510), (244, 53507), (289, 53150), (292, 53117), (295, 53096), (303, 53003), (305, 52994), (309, 52931), (313, 52895), (314, 52892), (317, 52877), (326, 52799), (327, 52787), (329, 52766), (337, 52727), (351, 52637), (354, 52619), (355, 52613), (357, 52598), (361, 52574), (363, 52559), (364, 52556), (365, 52544), (369, 52520), (372, 52499), (378, 52472), (381, 52448), (382, 52433),

Gene: Plmatters_59 Start: 54053, Stop: 52194, Start Num: 105

Candidate Starts for Plmatters_59:

(Start: 97 @54077 has 5 MA's), (Start: 105 @54053 has 315 MA's), (Start: 116 @54029 has 6 MA's), (Start: 118 @54023 has 2 MA's), (123, 53981), (125, 53960), (149, 53846), (151, 53840), (155, 53810), (167, 53750), (171, 53729), (180, 53675), (183, 53663), (186, 53645), (188, 53633), (207, 53528), (214, 53471), (218, 53435), (219, 53423), (225, 53396), (229, 53369), (231, 53351), (233, 53333), (241, 53294), (242, 53285), (243, 53282), (275, 53024), (289, 52922), (292, 52889), (295, 52868), (303, 52775), (305, 52766), (309, 52703), (313, 52667), (314, 52664), (317, 52649), (326, 52571), (327, 52559), (329, 52538), (337, 52499), (351, 52409), (354, 52391), (355, 52385), (357, 52370), (361, 52346), (363, 52331), (364, 52328), (365, 52316), (369, 52292), (378, 52244), (381, 52220),

Gene: Podrick_59 Start: 53832, Stop: 51973, Start Num: 105

Candidate Starts for Podrick_59:

(Start: 97 @53856 has 5 MA's), (Start: 105 @53832 has 315 MA's), (Start: 116 @53808 has 6 MA's), (Start: 118 @53802 has 2 MA's), (123, 53760), (125, 53739), (149, 53625), (151, 53619), (155, 53589), (167, 53529), (171, 53508), (180, 53454), (183, 53442), (186, 53424), (188, 53412), (207, 53307), (214, 53250), (218, 53214), (219, 53202), (225, 53175), (229, 53148), (231, 53130), (233, 53112), (241, 53073), (242, 53064), (243, 53061), (275, 52803), (289, 52701), (292, 52668), (295, 52647), (303, 52554), (305, 52545), (309, 52482), (313, 52446), (314, 52443), (317, 52428), (326, 52350), (327, 52338), (329, 52317), (337, 52278), (351, 52188), (354, 52170), (355, 52164), (357, 52149), (361, 52125), (363, 52110), (364, 52107), (365, 52095), (369, 52071), (378, 52023), (381, 51999),

Gene: Pops_60 Start: 54238, Stop: 52379, Start Num: 105

Candidate Starts for Pops_60:

(Start: 97 @54262 has 5 MA's), (Start: 105 @54238 has 315 MA's), (Start: 116 @54214 has 6 MA's), (Start: 118 @54208 has 2 MA's), (123, 54166), (125, 54145), (149, 54031), (151, 54025), (155, 53995), (167, 53935), (171, 53914), (180, 53860), (183, 53848), (186, 53830), (188, 53818), (207, 53713), (214, 53656), (218, 53620), (219, 53608), (224, 53584), (226, 53572), (229, 53554), (231, 53536), (233, 53518), (241, 53479), (242, 53470), (243, 53467), (244, 53464), (289, 53107), (292, 53074), (295, 53053), (303, 52960), (305, 52951), (309, 52888), (313, 52852), (314, 52849), (317, 52834), (326, 52756), (327, 52744), (329, 52723), (337, 52684), (351, 52594), (354, 52576), (355, 52570), (357, 52555), (361, 52531), (363, 52516), (364, 52513), (365, 52501), (369, 52477), (378, 52429), (381, 52405),

Gene: Poster_52 Start: 52989, Stop: 51166, Start Num: 101

Candidate Starts for Poster_52:

(Start: 97 @53007 has 5 MA's), (Start: 101 @52989 has 17 MA's), (Start: 118 @52965 has 2 MA's), (120, 52938), (123, 52923), (125, 52902), (146, 52815), (166, 52710), (173, 52668), (186, 52602), (191, 52572), (192, 52563), (193, 52560), (194, 52557), (199, 52530), (214, 52437), (216, 52419), (218, 52401), (219, 52389), (223, 52374), (225, 52362), (242, 52251), (243, 52248), (248, 52218), (252, 52182), (282, 51957), (283, 51954), (287, 51918), (289, 51894), (292, 51861), (302, 51753), (303, 51747), (304, 51741), (305, 51738), (313, 51639), (314, 51636), (317, 51621), (326, 51543), (327, 51531), (329, 51510), (331, 51501), (337, 51471), (341, 51447), (348, 51414), (351, 51381), (354, 51363), (355, 51357), (361, 51318), (364, 51300), (365, 51288), (369, 51264), (376, 51222), (378, 51216), (381, 51192),

Gene: Potter_59 Start: 54044, Stop: 52185, Start Num: 105

Candidate Starts for Potter_59:

(Start: 97 @54068 has 5 MA's), (Start: 105 @54044 has 315 MA's), (Start: 116 @54020 has 6 MA's), (Start: 118 @54014 has 2 MA's), (123, 53972), (125, 53951), (149, 53837), (151, 53831), (155, 53801), (167, 53741), (171, 53720), (180, 53666), (183, 53654), (186, 53636), (188, 53624), (207, 53519), (214, 53462), (218, 53426), (219, 53414), (225, 53387), (231, 53342), (241, 53285), (242, 53276), (243, 53273), (289, 52913), (292, 52880), (295, 52859), (303, 52766), (305, 52757), (309, 52694), (313, 52658), (314, 52655), (317, 52640), (326, 52562), (327, 52550), (329, 52529), (337, 52490), (351, 52400), (354, 52382), (355, 52376), (357, 52361), (361, 52337), (363, 52322), (364, 52319), (365, 52307), (369, 52283), (378, 52235), (381, 52211),

Gene: Prickles_62 Start: 54544, Stop: 52685, Start Num: 105

Candidate Starts for Prickles_62:

(Start: 97 @54568 has 5 MA's), (Start: 105 @54544 has 315 MA's), (Start: 116 @54520 has 6 MA's), (Start: 118 @54514 has 2 MA's), (123, 54472), (125, 54451), (149, 54337), (151, 54331), (155, 54301), (167, 54241), (171, 54220), (180, 54166), (183, 54154), (186, 54136), (188, 54124), (207, 54019), (214, 53962), (218, 53926), (219, 53914), (225, 53887), (226, 53878), (231, 53842), (241, 53785), (242, 53776), (243, 53773), (244, 53770), (289, 53413), (292, 53380), (295, 53359), (303, 53266), (305, 53257), (309, 53194), (313, 53158), (314, 53155), (317, 53140), (326, 53062), (327, 53050), (329, 53029), (337, 52990), (351, 52900), (354, 52882), (355, 52876), (357, 52861), (361, 52837), (363, 52822), (364, 52819), (365, 52807), (369, 52783), (378, 52735), (381, 52711),

Gene: Prince_53 Start: 54170, Stop: 52347, Start Num: 101

Candidate Starts for Prince_53:

(Start: 97 @54188 has 5 MA's), (Start: 101 @54170 has 17 MA's), (Start: 118 @54146 has 2 MA's), (120, 54119), (123, 54104), (125, 54083), (146, 53996), (166, 53891), (173, 53849), (186, 53783), (191, 53753), (192, 53744), (193, 53741), (194, 53738), (214, 53618), (216, 53600), (218, 53582), (219, 53570), (223, 53555), (225, 53543), (242, 53432), (243, 53429), (248, 53399), (252, 53363), (282, 53138), (283, 53135), (287, 53099), (289, 53075), (292, 53042), (302, 52934), (303, 52928), (305, 52919), (313, 52820), (314, 52817), (317, 52802), (326, 52724), (327, 52712), (329, 52691), (331, 52682), (337, 52652), (348, 52595), (351, 52562), (354, 52544), (355, 52538), (361, 52499),

(364, 52481), (365, 52469), (369, 52445), (376, 52403), (378, 52397), (381, 52373),

Gene: PrinceCharming_57 Start: 52594, Stop: 50765, Start Num: 105

Candidate Starts for PrinceCharming_57:

(Start: 105 @52594 has 315 MA's), (Start: 118 @52567 has 2 MA's), (121, 52537), (123, 52525), (127, 52498), (128, 52495), (132, 52486), (141, 52468), (157, 52372), (167, 52321), (172, 52297), (175, 52273), (199, 52135), (205, 52111), (207, 52099), (214, 52042), (218, 52006), (219, 51994), (224, 51970), (235, 51886), (242, 51856), (243, 51853), (248, 51823), (268, 51679), (274, 51613), (280, 51574), (282, 51562), (284, 51541), (287, 51523), (292, 51466), (301, 51382), (303, 51352), (305, 51343), (309, 51277), (312, 51250), (313, 51241), (317, 51223), (320, 51199), (326, 51145), (327, 51133), (329, 51112), (342, 51043), (351, 50983), (354, 50965), (358, 50932), (361, 50920), (363, 50905), (364, 50902), (365, 50890), (369, 50866), (370, 50863), (378, 50815), (379, 50812), (381, 50791), (383, 50770),

Gene: ProfessorX_60 Start: 54043, Stop: 52184, Start Num: 105

Candidate Starts for ProfessorX_60:

(Start: 97 @54067 has 5 MA's), (Start: 105 @54043 has 315 MA's), (Start: 116 @54019 has 6 MA's), (Start: 118 @54013 has 2 MA's), (123, 53971), (125, 53950), (149, 53836), (151, 53830), (155, 53800), (167, 53740), (171, 53719), (180, 53665), (183, 53653), (186, 53635), (188, 53623), (207, 53518), (214, 53461), (218, 53425), (219, 53413), (224, 53389), (226, 53377), (229, 53359), (231, 53341), (233, 53323), (241, 53284), (242, 53275), (243, 53272), (244, 53269), (289, 52912), (292, 52879), (295, 52858), (303, 52765), (305, 52756), (309, 52693), (313, 52657), (314, 52654), (317, 52639), (326, 52561), (327, 52549), (329, 52528), (337, 52489), (351, 52399), (354, 52381), (355, 52375), (357, 52360), (361, 52336), (363, 52321), (364, 52318), (365, 52306), (369, 52282), (378, 52234), (381, 52210),

Gene: Puhltonio_60 Start: 54318, Stop: 52459, Start Num: 105

Candidate Starts for Puhltonio_60:

(Start: 97 @54342 has 5 MA's), (Start: 105 @54318 has 315 MA's), (Start: 116 @54294 has 6 MA's), (Start: 118 @54288 has 2 MA's), (123, 54246), (125, 54225), (149, 54111), (151, 54105), (155, 54075), (167, 54015), (171, 53994), (180, 53940), (183, 53928), (186, 53910), (188, 53898), (207, 53793), (214, 53736), (218, 53700), (219, 53688), (225, 53661), (229, 53634), (231, 53616), (233, 53598), (241, 53559), (242, 53550), (243, 53547), (275, 53289), (289, 53187), (292, 53154), (295, 53133), (303, 53040), (305, 53031), (309, 52968), (313, 52932), (314, 52929), (317, 52914), (326, 52836), (327, 52824), (329, 52803), (337, 52764), (351, 52674), (354, 52656), (355, 52650), (357, 52635), (361, 52611), (363, 52596), (364, 52593), (365, 52581), (369, 52557), (378, 52509), (381, 52485),

Gene: Puppies_42 Start: 34640, Stop: 32244, Start Num: 9

Candidate Starts for Puppies_42:

(Start: 9 @34640 has 5 MA's), (10, 34631), (18, 34535), (78, 34199), (Start: 87 @34169 has 1 MA's), (90, 34157), (109, 34103), (133, 33983), (141, 33962), (147, 33917), (156, 33869), (161, 33848), (190, 33686), (204, 33623), (207, 33602), (209, 33593), (218, 33512), (219, 33500), (229, 33446), (232, 33416), (236, 33389), (242, 33362), (243, 33359), (244, 33356), (265, 33209), (272, 33125), (279, 33074), (284, 33035), (286, 33026), (287, 33017), (292, 32960), (301, 32879), (303, 32849), (310, 32759), (312, 32747), (317, 32720), (326, 32642), (327, 32630), (331, 32600), (347, 32510), (348, 32495), (351, 32462), (360, 32405), (363, 32384), (364, 32381), (367, 32357), (369, 32345), (378, 32294), (381, 32270),

Gene: QueenBeane_60 Start: 54350, Stop: 52491, Start Num: 105

Candidate Starts for QueenBeane_60:

(Start: 97 @54374 has 5 MA's), (Start: 105 @54350 has 315 MA's), (Start: 116 @54326 has 6 MA's), (Start: 118 @54320 has 2 MA's), (123, 54278), (125, 54257), (149, 54143), (151, 54137), (155, 54107), (167, 54047), (171, 54026), (180, 53972), (183, 53960), (186, 53942), (188, 53930), (207, 53825),

(214, 53768), (218, 53732), (219, 53720), (225, 53693), (231, 53648), (241, 53591), (242, 53582), (243, 53579), (289, 53219), (292, 53186), (295, 53165), (303, 53072), (305, 53063), (309, 53000), (313, 52964), (314, 52961), (317, 52946), (326, 52868), (327, 52856), (329, 52835), (337, 52796), (351, 52706), (354, 52688), (355, 52682), (357, 52667), (361, 52643), (363, 52628), (364, 52625), (365, 52613), (369, 52589), (378, 52541), (381, 52517),

Gene: QueenPie_51 Start: 53683, Stop: 51860, Start Num: 101

Candidate Starts for QueenPie_51:

(Start: 97 @53701 has 5 MA's), (Start: 101 @53683 has 17 MA's), (Start: 118 @53659 has 2 MA's), (120, 53632), (123, 53617), (125, 53596), (146, 53509), (166, 53404), (173, 53362), (186, 53296), (191, 53266), (192, 53257), (193, 53254), (194, 53251), (199, 53224), (214, 53131), (216, 53113), (218, 53095), (219, 53083), (225, 53056), (233, 52993), (236, 52972), (241, 52954), (242, 52945), (243, 52942), (252, 52876), (282, 52651), (283, 52648), (287, 52612), (289, 52588), (292, 52555), (302, 52447), (303, 52441), (305, 52432), (313, 52333), (314, 52330), (317, 52315), (326, 52237), (327, 52225), (329, 52204), (331, 52195), (337, 52165), (342, 52135), (348, 52108), (351, 52075), (354, 52057), (355, 52051), (361, 52012), (364, 51994), (365, 51982), (369, 51958), (376, 51916), (378, 51910), (381, 51886),

Gene: Quesadilla_58 Start: 54997, Stop: 53174, Start Num: 106

Candidate Starts for Quesadilla_58:

(Start: 106 @54997 has 3 MA's), (120, 54943), (128, 54898), (136, 54889), (141, 54871), (149, 54817), (157, 54778), (175, 54679), (183, 54640), (187, 54616), (198, 54547), (207, 54508), (214, 54451), (218, 54415), (219, 54403), (224, 54379), (225, 54376), (226, 54367), (243, 54256), (246, 54238), (248, 54226), (252, 54190), (280, 53977), (282, 53965), (283, 53962), (284, 53944), (287, 53926), (289, 53902), (290, 53896), (292, 53869), (303, 53755), (305, 53746), (313, 53647), (314, 53644), (317, 53629), (326, 53551), (327, 53539), (329, 53518), (333, 53500), (339, 53470), (345, 53434), (351, 53389), (354, 53371), (355, 53365), (361, 53326), (362, 53314), (363, 53311), (369, 53272), (378, 53224), (381, 53200),

Gene: Quisquiliae_61 Start: 54311, Stop: 52452, Start Num: 105

Candidate Starts for Quisquiliae_61:

(Start: 97 @54335 has 5 MA's), (Start: 105 @54311 has 315 MA's), (Start: 116 @54287 has 6 MA's), (Start: 118 @54281 has 2 MA's), (123, 54239), (125, 54218), (149, 54104), (151, 54098), (155, 54068), (167, 54008), (171, 53987), (180, 53933), (183, 53921), (186, 53903), (188, 53891), (207, 53786), (214, 53729), (218, 53693), (219, 53681), (224, 53657), (226, 53645), (229, 53627), (231, 53609), (233, 53591), (241, 53552), (242, 53543), (243, 53540), (244, 53537), (289, 53180), (292, 53147), (303, 53033), (305, 53024), (309, 52961), (313, 52925), (314, 52922), (317, 52907), (326, 52829), (327, 52817), (329, 52796), (337, 52757), (351, 52667), (354, 52649), (355, 52643), (357, 52628), (361, 52604), (363, 52589), (364, 52586), (365, 52574), (369, 52550), (378, 52502), (381, 52478),

Gene: Qyrzula_52 Start: 52584, Stop: 50782, Start Num: 118

Candidate Starts for Qyrzula_52:

(Start: 105 @52611 has 315 MA's), (Start: 118 @52584 has 2 MA's), (121, 52554), (123, 52542), (127, 52515), (128, 52512), (132, 52503), (141, 52485), (157, 52389), (167, 52338), (172, 52314), (199, 52152), (205, 52128), (207, 52116), (214, 52059), (218, 52023), (219, 52011), (224, 51987), (234, 51909), (235, 51903), (238, 51894), (242, 51873), (243, 51870), (248, 51840), (268, 51696), (274, 51630), (280, 51591), (282, 51579), (284, 51558), (287, 51540), (292, 51483), (297, 51426), (301, 51399), (303, 51369), (305, 51360), (309, 51294), (312, 51267), (313, 51258), (317, 51240), (320, 51216), (326, 51162), (327, 51150), (329, 51129), (342, 51060), (351, 51000), (354, 50982), (358, 50949), (361, 50937), (363, 50922), (364, 50919), (365, 50907), (369, 50883), (370, 50880), (378, 50832), (379, 50829), (381, 50808), (383, 50787),

Gene: RagingRooster_57 Start: 53332, Stop: 51515, Start Num: 117

Candidate Starts for RagingRooster_57:

(75, 53515), (Start: 117 @53332 has 46 MA's), (120, 53302), (159, 53122), (185, 52969), (187, 52957), (192, 52927), (194, 52921), (207, 52858), (208, 52852), (214, 52801), (217, 52774), (218, 52765), (226, 52717), (243, 52612), (257, 52516), (265, 52465), (282, 52321), (287, 52282), (290, 52252), (292, 52225), (294, 52213), (302, 52117), (303, 52111), (305, 52102), (306, 52090), (311, 52018), (313, 51988), (317, 51970), (318, 51961), (326, 51892), (327, 51880), (329, 51859), (342, 51790), (345, 51775), (350, 51751), (351, 51730), (354, 51712), (355, 51706), (360, 51673), (361, 51667), (364, 51649), (365, 51637), (367, 51625), (369, 51613), (376, 51571), (381, 51541),

Gene: RawrgerThat_54 Start: 54025, Stop: 52202, Start Num: 101

Candidate Starts for RawrgerThat_54:

(Start: 97 @54043 has 5 MA's), (Start: 101 @54025 has 17 MA's), (Start: 118 @54001 has 2 MA's), (120, 53974), (123, 53959), (125, 53938), (146, 53851), (166, 53746), (171, 53719), (173, 53704), (186, 53638), (191, 53608), (192, 53599), (193, 53596), (194, 53593), (199, 53566), (207, 53530), (214, 53473), (216, 53455), (218, 53437), (219, 53425), (225, 53398), (233, 53335), (241, 53296), (242, 53287), (243, 53284), (248, 53254), (252, 53218), (282, 52993), (283, 52990), (287, 52954), (292, 52897), (302, 52789), (303, 52783), (305, 52774), (313, 52675), (314, 52672), (317, 52657), (326, 52579), (327, 52567), (329, 52546), (331, 52537), (337, 52507), (342, 52477), (348, 52450), (351, 52417), (355, 52393), (361, 52354), (364, 52336), (365, 52324), (369, 52300), (376, 52258), (378, 52252), (381, 52228),

Gene: Reccee_58 Start: 54599, Stop: 52773, Start Num: 99

Candidate Starts for Reccee_58:

(82, 54677), (Start: 99 @54599 has 12 MA's), (120, 54545), (135, 54485), (158, 54374), (167, 54326), (186, 54224), (193, 54182), (201, 54146), (207, 54116), (218, 54023), (219, 54011), (224, 53987), (226, 53975), (229, 53957), (238, 53894), (243, 53870), (259, 53765), (283, 53576), (284, 53558), (290, 53510), (292, 53483), (302, 53375), (303, 53369), (305, 53360), (307, 53339), (311, 53276), (314, 53243), (317, 53228), (323, 53168), (326, 53150), (327, 53138), (329, 53117), (331, 53108), (332, 53105), (351, 52988), (355, 52964), (361, 52925), (363, 52910), (364, 52907), (367, 52883), (369, 52871), (370, 52868), (379, 52820), (381, 52799), (383, 52778),

Gene: RedMaple_62 Start: 54786, Stop: 52927, Start Num: 105

Candidate Starts for RedMaple_62:

(Start: 97 @54810 has 5 MA's), (Start: 105 @54786 has 315 MA's), (Start: 116 @54762 has 6 MA's), (Start: 118 @54756 has 2 MA's), (123, 54714), (125, 54693), (149, 54579), (151, 54573), (155, 54543), (167, 54483), (171, 54462), (180, 54408), (183, 54396), (186, 54378), (188, 54366), (207, 54261), (214, 54204), (218, 54168), (219, 54156), (224, 54132), (226, 54120), (229, 54102), (231, 54084), (233, 54066), (241, 54027), (242, 54018), (243, 54015), (244, 54012), (289, 53655), (292, 53622), (295, 53601), (303, 53508), (305, 53499), (309, 53436), (313, 53400), (314, 53397), (317, 53382), (326, 53304), (327, 53292), (329, 53271), (337, 53232), (351, 53142), (354, 53124), (355, 53118), (357, 53103), (361, 53079), (363, 53064), (364, 53061), (365, 53049), (369, 53025), (378, 52977), (381, 52953),

Gene: RedRaider89_63 Start: 54477, Stop: 52618, Start Num: 105

Candidate Starts for RedRaider89_63:

(Start: 97 @54501 has 5 MA's), (Start: 105 @54477 has 315 MA's), (Start: 116 @54453 has 6 MA's), (Start: 118 @54447 has 2 MA's), (123, 54405), (125, 54384), (149, 54270), (151, 54264), (155, 54234), (167, 54174), (171, 54153), (180, 54099), (183, 54087), (186, 54069), (188, 54057), (207, 53952), (214, 53895), (218, 53859), (219, 53847), (224, 53823), (226, 53811), (229, 53793), (231, 53775), (241, 53718), (242, 53709), (243, 53706), (244, 53703), (275, 53448), (289, 53346), (292, 53313), (295, 53292), (303, 53199), (305, 53190), (309, 53127), (313, 53091), (314, 53088), (317, 53073), (326, 52995), (327, 52983), (329, 52962), (337, 52923), (351, 52833), (354, 52815), (355, 52809), (357, 52794), (361, 52770), (363, 52755), (364, 52752), (365, 52740), (369, 52716), (378, 52668),

(381, 52644),

Gene: Renkei_52 Start: 53005, Stop: 51182, Start Num: 101

Candidate Starts for Renkei_52:

(Start: 97 @53023 has 5 MA's), (Start: 101 @53005 has 17 MA's), (Start: 118 @52981 has 2 MA's),
(120, 52954), (123, 52939), (125, 52918), (146, 52831), (166, 52726), (173, 52684), (186, 52618),
(191, 52588), (192, 52579), (193, 52576), (194, 52573), (214, 52453), (216, 52435), (218, 52417),
(219, 52405), (223, 52390), (225, 52378), (242, 52267), (243, 52264), (248, 52234), (252, 52198),
(282, 51973), (283, 51970), (287, 51934), (289, 51910), (292, 51877), (302, 51769), (303, 51763),
(305, 51754), (313, 51655), (314, 51652), (317, 51637), (326, 51559), (327, 51547), (329, 51526),
(331, 51517), (337, 51487), (342, 51457), (348, 51430), (351, 51397), (354, 51379), (355, 51373),
(361, 51334), (364, 51316), (365, 51304), (369, 51280), (376, 51238), (378, 51232), (381, 51208),

Gene: Reprobate_57 Start: 54575, Stop: 52746, Start Num: 99

Candidate Starts for Reprobate_57:

(Start: 99 @54575 has 12 MA's), (112, 54554), (Start: 117 @54545 has 46 MA's), (120, 54518), (123,
54503), (141, 54446), (171, 54278), (185, 54200), (188, 54185), (191, 54167), (193, 54155), (201,
54119), (207, 54089), (218, 53996), (219, 53984), (220, 53981), (224, 53960), (225, 53957), (226,
53948), (229, 53930), (238, 53867), (243, 53843), (259, 53738), (271, 53615), (275, 53591), (280,
53564), (282, 53552), (283, 53549), (284, 53531), (287, 53513), (290, 53483), (292, 53456), (296,
53405), (303, 53342), (305, 53333), (311, 53249), (314, 53216), (317, 53201), (323, 53141), (326,
53123), (327, 53111), (329, 53090), (331, 53081), (332, 53078), (351, 52961), (354, 52943), (355,
52937), (361, 52898), (362, 52886), (363, 52883), (365, 52868), (367, 52856), (369, 52844), (376,
52802), (379, 52793), (381, 52772), (383, 52751),

Gene: Rhinoforte_57 Start: 52610, Stop: 50781, Start Num: 105

Candidate Starts for Rhinoforte_57:

(Start: 105 @52610 has 315 MA's), (Start: 118 @52583 has 2 MA's), (121, 52553), (123, 52541), (127,
52514), (128, 52511), (132, 52502), (141, 52484), (157, 52388), (167, 52337), (172, 52313), (175,
52289), (199, 52151), (205, 52127), (207, 52115), (214, 52058), (218, 52022), (219, 52010), (224,
51986), (235, 51902), (242, 51872), (243, 51869), (248, 51839), (268, 51695), (274, 51629), (280,
51590), (282, 51578), (284, 51557), (287, 51539), (292, 51482), (297, 51425), (301, 51398), (303,
51368), (305, 51359), (309, 51293), (312, 51266), (313, 51257), (317, 51239), (320, 51215), (326,
51161), (327, 51149), (329, 51128), (342, 51059), (351, 50999), (354, 50981), (358, 50948), (361,
50936), (363, 50921), (364, 50918), (365, 50906), (369, 50882), (370, 50879), (378, 50831), (379,
50828), (381, 50807), (383, 50786),

Gene: Rich_58 Start: 55836, Stop: 53983, Start Num: 99

Candidate Starts for Rich_58:

(72, 55995), (82, 55914), (Start: 99 @55836 has 12 MA's), (112, 55791), (120, 55755), (135, 55695),
(158, 55584), (186, 55434), (193, 55392), (201, 55356), (207, 55326), (218, 55233), (219, 55221),
(224, 55197), (226, 55185), (229, 55167), (238, 55104), (243, 55080), (259, 54975), (283, 54786),
(284, 54768), (290, 54720), (292, 54693), (295, 54672), (302, 54585), (303, 54579), (305, 54570),
(307, 54549), (311, 54486), (314, 54453), (317, 54438), (323, 54378), (326, 54360), (327, 54348),
(329, 54327), (331, 54318), (332, 54315), (351, 54198), (355, 54174), (361, 54135), (363, 54120),
(364, 54117), (369, 54081), (370, 54078), (381, 54009),

Gene: Ricotta_60 Start: 54043, Stop: 52184, Start Num: 105

Candidate Starts for Ricotta_60:

(Start: 97 @54067 has 5 MA's), (Start: 105 @54043 has 315 MA's), (Start: 116 @54019 has 6 MA's),
(Start: 118 @54013 has 2 MA's), (123, 53971), (125, 53950), (149, 53836), (151, 53830), (155, 53800),
(167, 53740), (171, 53719), (180, 53665), (183, 53653), (186, 53635), (188, 53623), (207, 53518),
(214, 53461), (218, 53425), (219, 53413), (224, 53389), (226, 53377), (229, 53359), (231, 53341),

(233, 53323), (241, 53284), (242, 53275), (243, 53272), (244, 53269), (275, 53014), (289, 52912), (292, 52879), (295, 52858), (303, 52765), (305, 52756), (309, 52693), (313, 52657), (314, 52654), (317, 52639), (326, 52561), (327, 52549), (329, 52528), (337, 52489), (351, 52399), (354, 52381), (355, 52375), (357, 52360), (361, 52336), (363, 52321), (364, 52318), (365, 52306), (369, 52282), (378, 52234), (381, 52210),

Gene: Riggan_61 Start: 54343, Stop: 52484, Start Num: 105

Candidate Starts for Riggan_61:

(Start: 97 @54367 has 5 MA's), (Start: 105 @54343 has 315 MA's), (Start: 116 @54319 has 6 MA's), (Start: 118 @54313 has 2 MA's), (123, 54271), (125, 54250), (149, 54136), (151, 54130), (155, 54100), (167, 54040), (171, 54019), (180, 53965), (183, 53953), (186, 53935), (188, 53923), (207, 53818), (214, 53761), (218, 53725), (219, 53713), (225, 53686), (229, 53659), (231, 53641), (233, 53623), (241, 53584), (242, 53575), (243, 53572), (275, 53314), (289, 53212), (292, 53179), (295, 53158), (303, 53065), (305, 53056), (309, 52993), (313, 52957), (314, 52954), (317, 52939), (326, 52861), (327, 52849), (329, 52828), (337, 52789), (351, 52699), (354, 52681), (355, 52675), (357, 52660), (361, 52636), (363, 52621), (364, 52618), (365, 52606), (369, 52582), (378, 52534), (381, 52510),

Gene: Rimu_60 Start: 54511, Stop: 52652, Start Num: 105

Candidate Starts for Rimu_60:

(Start: 97 @54535 has 5 MA's), (Start: 105 @54511 has 315 MA's), (Start: 116 @54487 has 6 MA's), (Start: 118 @54481 has 2 MA's), (123, 54439), (125, 54418), (149, 54304), (151, 54298), (155, 54268), (167, 54208), (171, 54187), (180, 54133), (183, 54121), (186, 54103), (188, 54091), (207, 53986), (214, 53929), (218, 53893), (219, 53881), (224, 53857), (226, 53845), (229, 53827), (231, 53809), (233, 53791), (241, 53752), (242, 53743), (243, 53740), (244, 53737), (275, 53482), (289, 53380), (292, 53347), (295, 53326), (303, 53233), (305, 53224), (309, 53161), (313, 53125), (314, 53122), (317, 53107), (326, 53029), (327, 53017), (329, 52996), (337, 52957), (351, 52867), (354, 52849), (355, 52843), (357, 52828), (361, 52804), (363, 52789), (364, 52786), (365, 52774), (369, 52750), (372, 52729), (378, 52702), (381, 52678),

Gene: Rinkes_56 Start: 54543, Stop: 52693, Start Num: 103

Candidate Starts for Rinkes_56:

(Start: 103 @54543 has 5 MA's), (122, 54474), (125, 54450), (153, 54330), (172, 54228), (175, 54204), (187, 54141), (188, 54138), (191, 54120), (197, 54075), (207, 54033), (214, 53976), (215, 53964), (218, 53940), (219, 53928), (224, 53904), (226, 53892), (238, 53805), (243, 53781), (246, 53763), (247, 53757), (248, 53751), (256, 53691), (260, 53667), (282, 53484), (283, 53481), (287, 53445), (290, 53415), (292, 53388), (295, 53367), (302, 53280), (303, 53274), (305, 53265), (309, 53202), (313, 53166), (314, 53163), (315, 53160), (317, 53148), (320, 53124), (326, 53070), (327, 53058), (329, 53037), (331, 53028), (333, 53019), (342, 52968), (345, 52953), (350, 52929), (351, 52908), (355, 52884), (357, 52869), (361, 52845), (362, 52833), (363, 52830), (369, 52791), (373, 52767), (374, 52764), (376, 52749), (381, 52719),

Gene: Rita130_57 Start: 54424, Stop: 52598, Start Num: 99

Candidate Starts for Rita130_57:

(72, 54583), (82, 54502), (Start: 99 @54424 has 12 MA's), (120, 54370), (135, 54310), (158, 54199), (167, 54151), (186, 54049), (193, 54007), (201, 53971), (207, 53941), (218, 53848), (219, 53836), (224, 53812), (226, 53800), (229, 53782), (238, 53719), (243, 53695), (244, 53692), (259, 53590), (283, 53401), (284, 53383), (290, 53335), (292, 53308), (302, 53200), (303, 53194), (305, 53185), (307, 53164), (311, 53101), (314, 53068), (317, 53053), (323, 52993), (326, 52975), (327, 52963), (329, 52942), (331, 52933), (332, 52930), (351, 52813), (355, 52789), (361, 52750), (363, 52735), (364, 52732), (367, 52708), (369, 52696), (370, 52693), (379, 52645), (381, 52624),

Gene: Rita1961_59 Start: 54042, Stop: 52225, Start Num: 117

Candidate Starts for Rita1961_59:

(75, 54225), (Start: 117 @54042 has 46 MA's), (120, 54012), (159, 53832), (185, 53679), (187, 53667), (192, 53637), (194, 53631), (207, 53568), (208, 53562), (214, 53511), (218, 53475), (226, 53427), (243, 53322), (257, 53226), (265, 53175), (282, 53031), (287, 52992), (290, 52962), (292, 52935), (294, 52923), (302, 52827), (303, 52821), (305, 52812), (306, 52800), (311, 52728), (313, 52698), (317, 52680), (318, 52671), (326, 52602), (327, 52590), (329, 52569), (342, 52500), (345, 52485), (350, 52461), (355, 52416), (361, 52377), (364, 52359), (365, 52347), (367, 52335), (369, 52323), (376, 52281), (381, 52251),

Gene: Riverton_60 Start: 54271, Stop: 52412, Start Num: 105

Candidate Starts for Riverton_60:

(Start: 97 @54295 has 5 MA's), (Start: 105 @54271 has 315 MA's), (Start: 116 @54247 has 6 MA's), (Start: 118 @54241 has 2 MA's), (123, 54199), (125, 54178), (149, 54064), (151, 54058), (155, 54028), (167, 53968), (171, 53947), (180, 53893), (183, 53881), (186, 53863), (188, 53851), (207, 53746), (214, 53689), (218, 53653), (219, 53641), (225, 53614), (226, 53605), (231, 53569), (241, 53512), (242, 53503), (243, 53500), (244, 53497), (275, 53242), (289, 53140), (292, 53107), (295, 53086), (303, 52993), (305, 52984), (309, 52921), (313, 52885), (314, 52882), (317, 52867), (326, 52789), (327, 52777), (329, 52756), (337, 52717), (351, 52627), (354, 52609), (355, 52603), (357, 52588), (361, 52564), (363, 52549), (364, 52546), (365, 52534), (369, 52510), (378, 52462), (381, 52438),

Gene: Robyn_60 Start: 54190, Stop: 52331, Start Num: 105

Candidate Starts for Robyn_60:

(26, 54586), (43, 54499), (47, 54484), (50, 54478), (53, 54463), (57, 54445), (Start: 97 @54214 has 5 MA's), (Start: 105 @54190 has 315 MA's), (Start: 116 @54166 has 6 MA's), (Start: 118 @54160 has 2 MA's), (123, 54118), (125, 54097), (149, 53983), (151, 53977), (155, 53947), (167, 53887), (171, 53866), (180, 53812), (183, 53800), (188, 53770), (207, 53665), (214, 53608), (218, 53572), (219, 53560), (225, 53533), (226, 53524), (231, 53488), (233, 53470), (241, 53431), (242, 53422), (243, 53419), (289, 53059), (292, 53026), (295, 53005), (303, 52912), (305, 52903), (309, 52840), (313, 52804), (314, 52801), (317, 52786), (326, 52708), (327, 52696), (329, 52675), (337, 52636), (351, 52546), (354, 52528), (355, 52522), (357, 52507), (361, 52483), (363, 52468), (364, 52465), (365, 52453), (369, 52429), (378, 52381), (381, 52357),

Gene: Roliet_58 Start: 53385, Stop: 51526, Start Num: 105

Candidate Starts for Roliet_58:

(Start: 97 @53409 has 5 MA's), (Start: 105 @53385 has 315 MA's), (Start: 116 @53361 has 6 MA's), (Start: 118 @53355 has 2 MA's), (123, 53313), (125, 53292), (149, 53178), (151, 53172), (155, 53142), (167, 53082), (171, 53061), (180, 53007), (183, 52995), (186, 52977), (188, 52965), (207, 52860), (214, 52803), (218, 52767), (219, 52755), (225, 52728), (226, 52719), (231, 52683), (241, 52626), (242, 52617), (243, 52614), (244, 52611), (275, 52356), (289, 52254), (292, 52221), (295, 52200), (303, 52107), (305, 52098), (309, 52035), (313, 51999), (314, 51996), (317, 51981), (326, 51903), (327, 51891), (329, 51870), (337, 51831), (351, 51741), (354, 51723), (355, 51717), (357, 51702), (361, 51678), (363, 51663), (364, 51660), (365, 51648), (369, 51624), (378, 51576), (381, 51552),

Gene: RomaT_58 Start: 54241, Stop: 52424, Start Num: 117

Candidate Starts for RomaT_58:

(75, 54424), (Start: 117 @54241 has 46 MA's), (120, 54211), (159, 54031), (185, 53878), (187, 53866), (192, 53836), (194, 53830), (207, 53767), (208, 53761), (214, 53710), (217, 53683), (218, 53674), (226, 53626), (243, 53521), (257, 53425), (265, 53374), (282, 53230), (287, 53191), (290, 53161), (292, 53134), (294, 53122), (302, 53026), (303, 53020), (305, 53011), (306, 52999), (311, 52927), (313, 52897), (317, 52879), (318, 52870), (326, 52801), (327, 52789), (329, 52768), (342, 52699), (345, 52684), (350, 52660), (351, 52639), (354, 52621), (355, 52615), (360, 52582), (361, 52576), (364, 52558), (365, 52546), (367, 52534), (369, 52522), (376, 52480), (381, 52450),

Gene: Roscoe_61 Start: 54489, Stop: 52630, Start Num: 105

Candidate Starts for Roscoe_61:

(Start: 97 @54513 has 5 MA's), (Start: 105 @54489 has 315 MA's), (Start: 116 @54465 has 6 MA's),
(Start: 118 @54459 has 2 MA's), (123, 54417), (125, 54396), (149, 54282), (151, 54276), (155, 54246),
(167, 54186), (171, 54165), (180, 54111), (183, 54099), (186, 54081), (188, 54069), (207, 53964),
(214, 53907), (218, 53871), (219, 53859), (225, 53832), (226, 53823), (231, 53787), (241, 53730),
(242, 53721), (243, 53718), (244, 53715), (289, 53358), (292, 53325), (295, 53304), (303, 53211),
(305, 53202), (309, 53139), (313, 53103), (314, 53100), (317, 53085), (326, 53007), (327, 52995),
(329, 52974), (337, 52935), (351, 52845), (354, 52827), (355, 52821), (357, 52806), (361, 52782),
(363, 52767), (364, 52764), (365, 52752), (369, 52728), (378, 52680), (381, 52656),

Gene: Rosebush_56 Start: 52637, Stop: 50808, Start Num: 105

Candidate Starts for Rosebush_56:

(Start: 105 @52637 has 315 MA's), (Start: 118 @52610 has 2 MA's), (121, 52580), (123, 52568), (127,
52541), (128, 52538), (132, 52529), (141, 52511), (157, 52415), (167, 52364), (172, 52340), (199,
52178), (205, 52154), (207, 52142), (214, 52085), (218, 52049), (219, 52037), (224, 52013), (234,
51935), (235, 51929), (238, 51920), (242, 51899), (243, 51896), (248, 51866), (268, 51722), (274,
51656), (282, 51605), (284, 51584), (287, 51566), (292, 51509), (297, 51452), (301, 51425), (303,
51395), (305, 51386), (309, 51320), (312, 51293), (313, 51284), (317, 51266), (320, 51242), (326,
51188), (327, 51176), (329, 51155), (342, 51086), (351, 51026), (354, 51008), (358, 50975), (361,
50963), (363, 50948), (364, 50945), (365, 50933), (369, 50909), (370, 50906), (378, 50858), (379,
50855), (381, 50834), (383, 50813),

Gene: Roy17_59 Start: 53743, Stop: 51884, Start Num: 105

Candidate Starts for Roy17_59:

(Start: 97 @53767 has 5 MA's), (Start: 105 @53743 has 315 MA's), (Start: 116 @53719 has 6 MA's),
(Start: 118 @53713 has 2 MA's), (123, 53671), (125, 53650), (149, 53536), (151, 53530), (155, 53500),
(167, 53440), (171, 53419), (180, 53365), (183, 53353), (186, 53335), (188, 53323), (207, 53218),
(214, 53161), (218, 53125), (219, 53113), (225, 53086), (229, 53059), (231, 53041), (233, 53023),
(241, 52984), (242, 52975), (243, 52972), (244, 52969), (289, 52612), (292, 52579), (295, 52558),
(303, 52465), (305, 52456), (309, 52393), (313, 52357), (314, 52354), (317, 52339), (326, 52261),
(327, 52249), (329, 52228), (337, 52189), (351, 52099), (354, 52081), (355, 52075), (357, 52060),
(361, 52036), (363, 52021), (364, 52018), (365, 52006), (369, 51982), (378, 51934), (381, 51910),

Gene: SDcharge11_60 Start: 53557, Stop: 51698, Start Num: 105

Candidate Starts for SDcharge11_60:

(Start: 97 @53581 has 5 MA's), (Start: 105 @53557 has 315 MA's), (Start: 116 @53533 has 6 MA's),
(Start: 118 @53527 has 2 MA's), (120, 53500), (123, 53485), (125, 53464), (149, 53350), (151, 53344),
(155, 53314), (167, 53254), (171, 53233), (180, 53179), (183, 53167), (186, 53149), (188, 53137),
(207, 53032), (214, 52975), (218, 52939), (219, 52927), (225, 52900), (226, 52891), (231, 52855),
(241, 52798), (242, 52789), (243, 52786), (244, 52783), (289, 52426), (292, 52393), (295, 52372),
(303, 52279), (305, 52270), (309, 52207), (313, 52171), (314, 52168), (317, 52153), (326, 52075),
(327, 52063), (329, 52042), (337, 52003), (351, 51913), (354, 51895), (355, 51889), (357, 51874),
(361, 51850), (363, 51835), (364, 51832), (365, 51820), (369, 51796), (378, 51748), (381, 51724),

Gene: Sabella_56 Start: 52482, Stop: 50653, Start Num: 105

Candidate Starts for Sabella_56:

(Start: 105 @52482 has 315 MA's), (Start: 118 @52455 has 2 MA's), (121, 52425), (123, 52413), (127,
52386), (128, 52383), (132, 52374), (141, 52356), (157, 52260), (167, 52209), (172, 52185), (199,
52023), (204, 52008), (205, 51999), (207, 51987), (214, 51930), (218, 51894), (219, 51882), (224,
51858), (235, 51774), (242, 51744), (243, 51741), (248, 51711), (268, 51567), (274, 51501), (282,
51450), (284, 51429), (287, 51411), (292, 51354), (301, 51270), (303, 51240), (305, 51231), (309,
51165), (312, 51138), (313, 51129), (317, 51111), (320, 51087), (326, 51033), (327, 51021), (329,
51000), (342, 50931), (351, 50871), (354, 50853), (358, 50820), (361, 50808), (363, 50793), (364,

50790), (365, 50778), (369, 50754), (370, 50751), (378, 50703), (379, 50700), (381, 50679), (383, 50658),

Gene: Saguaro_58 Start: 54786, Stop: 52945, Start Num: 105

Candidate Starts for Saguaro_58:

(Start: 105 @54786 has 315 MA's), (120, 54732), (125, 54696), (153, 54576), (162, 54522), (187, 54387), (188, 54384), (191, 54366), (207, 54279), (214, 54222), (218, 54186), (219, 54174), (224, 54150), (242, 54030), (243, 54027), (246, 54009), (248, 53997), (265, 53880), (276, 53769), (282, 53736), (283, 53733), (284, 53715), (290, 53667), (292, 53640), (296, 53589), (302, 53532), (303, 53526), (305, 53517), (308, 53469), (309, 53454), (313, 53418), (314, 53415), (317, 53400), (326, 53322), (327, 53310), (329, 53289), (333, 53271), (336, 53253), (342, 53220), (351, 53160), (354, 53142), (355, 53136), (361, 53097), (362, 53085), (363, 53082), (364, 53079), (365, 53067), (367, 53055), (369, 53043), (376, 53001), (378, 52995), (381, 52971), (383, 52950),

Gene: SallyH_63 Start: 54297, Stop: 52438, Start Num: 105

Candidate Starts for SallyH_63:

(Start: 97 @54321 has 5 MA's), (Start: 105 @54297 has 315 MA's), (Start: 116 @54273 has 6 MA's), (Start: 118 @54267 has 2 MA's), (123, 54225), (125, 54204), (149, 54090), (151, 54084), (155, 54054), (167, 53994), (171, 53973), (180, 53919), (183, 53907), (186, 53889), (188, 53877), (207, 53772), (214, 53715), (218, 53679), (219, 53667), (224, 53643), (226, 53631), (229, 53613), (231, 53595), (233, 53577), (241, 53538), (242, 53529), (243, 53526), (244, 53523), (289, 53166), (292, 53133), (295, 53112), (303, 53019), (305, 53010), (309, 52947), (313, 52911), (314, 52908), (317, 52893), (326, 52815), (327, 52803), (329, 52782), (337, 52743), (351, 52653), (354, 52635), (355, 52629), (357, 52614), (361, 52590), (363, 52575), (364, 52572), (365, 52560), (369, 52536), (378, 52488), (381, 52464),

Gene: Samaymay_60 Start: 54350, Stop: 52491, Start Num: 105

Candidate Starts for Samaymay_60:

(Start: 97 @54374 has 5 MA's), (Start: 105 @54350 has 315 MA's), (Start: 116 @54326 has 6 MA's), (Start: 118 @54320 has 2 MA's), (123, 54278), (125, 54257), (149, 54143), (151, 54137), (155, 54107), (167, 54047), (171, 54026), (180, 53972), (183, 53960), (186, 53942), (188, 53930), (207, 53825), (214, 53768), (218, 53732), (219, 53720), (225, 53693), (231, 53648), (241, 53591), (242, 53582), (243, 53579), (289, 53219), (292, 53186), (295, 53165), (303, 53072), (305, 53063), (309, 53000), (313, 52964), (314, 52961), (317, 52946), (326, 52868), (327, 52856), (329, 52835), (337, 52796), (351, 52706), (354, 52688), (355, 52682), (357, 52667), (361, 52643), (363, 52628), (364, 52625), (365, 52613), (369, 52589), (378, 52541), (381, 52517),

Gene: SassyCat97_59 Start: 54035, Stop: 52176, Start Num: 105

Candidate Starts for SassyCat97_59:

(Start: 97 @54059 has 5 MA's), (Start: 105 @54035 has 315 MA's), (Start: 116 @54011 has 6 MA's), (Start: 118 @54005 has 2 MA's), (123, 53963), (125, 53942), (149, 53828), (151, 53822), (155, 53792), (167, 53732), (171, 53711), (180, 53657), (183, 53645), (186, 53627), (188, 53615), (207, 53510), (214, 53453), (218, 53417), (219, 53405), (225, 53378), (229, 53351), (231, 53333), (233, 53315), (241, 53276), (242, 53267), (243, 53264), (275, 53006), (289, 52904), (292, 52871), (295, 52850), (303, 52757), (305, 52748), (309, 52685), (313, 52649), (314, 52646), (317, 52631), (326, 52553), (327, 52541), (329, 52520), (337, 52481), (351, 52391), (354, 52373), (355, 52367), (357, 52352), (361, 52328), (363, 52313), (364, 52310), (365, 52298), (369, 52274), (378, 52226), (381, 52202),

Gene: Schadenfreude_60 Start: 53915, Stop: 52056, Start Num: 105

Candidate Starts for Schadenfreude_60:

(Start: 97 @53939 has 5 MA's), (Start: 105 @53915 has 315 MA's), (Start: 116 @53891 has 6 MA's), (Start: 118 @53885 has 2 MA's), (123, 53843), (125, 53822), (149, 53708), (151, 53702), (155, 53672), (167, 53612), (171, 53591), (180, 53537), (183, 53525), (186, 53507), (188, 53495), (207, 53390),

(214, 53333), (218, 53297), (219, 53285), (224, 53261), (226, 53249), (229, 53231), (231, 53213), (233, 53195), (241, 53156), (242, 53147), (243, 53144), (244, 53141), (289, 52784), (292, 52751), (295, 52730), (303, 52637), (305, 52628), (309, 52565), (313, 52529), (314, 52526), (317, 52511), (326, 52433), (327, 52421), (329, 52400), (337, 52361), (351, 52271), (354, 52253), (355, 52247), (357, 52232), (361, 52208), (363, 52193), (364, 52190), (365, 52178), (369, 52154), (378, 52106), (381, 52082),

Gene: Schueller_61 Start: 54272, Stop: 52413, Start Num: 105

Candidate Starts for Schueller_61:

(Start: 97 @54296 has 5 MA's), (Start: 105 @54272 has 315 MA's), (Start: 116 @54248 has 6 MA's), (Start: 118 @54242 has 2 MA's), (123, 54200), (125, 54179), (149, 54065), (151, 54059), (155, 54029), (167, 53969), (171, 53948), (180, 53894), (183, 53882), (186, 53864), (188, 53852), (207, 53747), (214, 53690), (218, 53654), (219, 53642), (224, 53618), (226, 53606), (229, 53588), (231, 53570), (233, 53552), (241, 53513), (242, 53504), (243, 53501), (244, 53498), (275, 53243), (289, 53141), (292, 53108), (295, 53087), (303, 52994), (305, 52985), (309, 52922), (313, 52886), (314, 52883), (317, 52868), (326, 52790), (327, 52778), (329, 52757), (337, 52718), (351, 52628), (354, 52610), (355, 52604), (357, 52589), (361, 52565), (363, 52550), (364, 52547), (365, 52535), (369, 52511), (372, 52490), (378, 52463), (381, 52439), (382, 52424),

Gene: Scoot17C_61 Start: 53977, Stop: 52118, Start Num: 105

Candidate Starts for Scoot17C_61:

(Start: 97 @54001 has 5 MA's), (Start: 105 @53977 has 315 MA's), (Start: 116 @53953 has 6 MA's), (Start: 118 @53947 has 2 MA's), (123, 53905), (125, 53884), (149, 53770), (151, 53764), (155, 53734), (167, 53674), (171, 53653), (180, 53599), (183, 53587), (186, 53569), (188, 53557), (207, 53452), (214, 53395), (218, 53359), (219, 53347), (225, 53320), (229, 53293), (231, 53275), (233, 53257), (241, 53218), (242, 53209), (243, 53206), (275, 52948), (289, 52846), (292, 52813), (295, 52792), (303, 52699), (305, 52690), (309, 52627), (313, 52591), (314, 52588), (317, 52573), (326, 52495), (327, 52483), (329, 52462), (337, 52423), (351, 52333), (354, 52315), (355, 52309), (357, 52294), (361, 52270), (363, 52255), (364, 52252), (365, 52240), (369, 52216), (378, 52168), (381, 52144),

Gene: Scrick_61 Start: 54049, Stop: 52190, Start Num: 105

Candidate Starts for Scrick_61:

(Start: 97 @54073 has 5 MA's), (Start: 105 @54049 has 315 MA's), (Start: 116 @54025 has 6 MA's), (Start: 118 @54019 has 2 MA's), (123, 53977), (125, 53956), (149, 53842), (151, 53836), (155, 53806), (167, 53746), (171, 53725), (180, 53671), (183, 53659), (186, 53641), (188, 53629), (207, 53524), (214, 53467), (218, 53431), (219, 53419), (224, 53395), (226, 53383), (229, 53365), (231, 53347), (233, 53329), (241, 53290), (242, 53281), (243, 53278), (244, 53275), (289, 52918), (292, 52885), (295, 52864), (303, 52771), (305, 52762), (309, 52699), (313, 52663), (314, 52660), (317, 52645), (326, 52567), (327, 52555), (329, 52534), (337, 52495), (351, 52405), (354, 52387), (355, 52381), (357, 52366), (361, 52342), (363, 52327), (364, 52324), (365, 52312), (369, 52288), (378, 52240), (381, 52216),

Gene: Selr12_61 Start: 54059, Stop: 52200, Start Num: 105

Candidate Starts for Selr12_61:

(Start: 97 @54083 has 5 MA's), (Start: 105 @54059 has 315 MA's), (Start: 116 @54035 has 6 MA's), (Start: 118 @54029 has 2 MA's), (123, 53987), (125, 53966), (149, 53852), (151, 53846), (155, 53816), (167, 53756), (171, 53735), (180, 53681), (183, 53669), (186, 53651), (188, 53639), (207, 53534), (214, 53477), (218, 53441), (219, 53429), (225, 53402), (229, 53375), (231, 53357), (233, 53339), (241, 53300), (242, 53291), (243, 53288), (289, 52928), (292, 52895), (295, 52874), (303, 52781), (305, 52772), (309, 52709), (313, 52673), (314, 52670), (317, 52655), (326, 52577), (327, 52565), (329, 52544), (337, 52505), (351, 52415), (354, 52397), (355, 52391), (357, 52376), (361, 52352), (363, 52337), (364, 52334), (365, 52322), (369, 52298), (378, 52250), (381, 52226),

Gene: Serendipitous_56 Start: 53740, Stop: 51905, Start Num: 99

Candidate Starts for Serendipitous_56:

(92, 53764), (Start: 99 @53740 has 12 MA's), (Start: 117 @53704 has 46 MA's), (186, 53356), (191, 53326), (193, 53314), (201, 53278), (207, 53248), (218, 53155), (219, 53143), (221, 53134), (224, 53119), (226, 53107), (229, 53089), (238, 53026), (243, 53002), (259, 52897), (283, 52708), (284, 52690), (290, 52642), (292, 52615), (302, 52507), (303, 52501), (305, 52492), (311, 52408), (314, 52375), (317, 52360), (323, 52300), (326, 52282), (327, 52270), (329, 52249), (331, 52240), (332, 52237), (355, 52096), (356, 52087), (361, 52057), (363, 52042), (364, 52039), (367, 52015), (369, 52003), (370, 52000), (376, 51961), (381, 51931), (383, 51910),

Gene: Serendipity_60 Start: 54332, Stop: 52473, Start Num: 105

Candidate Starts for Serendipity_60:

(Start: 97 @54356 has 5 MA's), (Start: 105 @54332 has 315 MA's), (Start: 116 @54308 has 6 MA's), (Start: 118 @54302 has 2 MA's), (123, 54260), (125, 54239), (149, 54125), (151, 54119), (155, 54089), (167, 54029), (171, 54008), (180, 53954), (183, 53942), (186, 53924), (188, 53912), (207, 53807), (214, 53750), (218, 53714), (219, 53702), (225, 53675), (231, 53630), (241, 53573), (242, 53564), (243, 53561), (289, 53201), (292, 53168), (295, 53147), (303, 53054), (305, 53045), (309, 52982), (313, 52946), (314, 52943), (317, 52928), (326, 52850), (327, 52838), (329, 52817), (337, 52778), (351, 52688), (354, 52670), (355, 52664), (357, 52649), (361, 52625), (363, 52610), (364, 52607), (365, 52595), (369, 52571), (378, 52523), (381, 52499),

Gene: Serpentine_0060 Start: 54415, Stop: 52556, Start Num: 105

Candidate Starts for Serpentine_0060:

(Start: 97 @54439 has 5 MA's), (Start: 105 @54415 has 315 MA's), (Start: 116 @54391 has 6 MA's), (Start: 118 @54385 has 2 MA's), (123, 54343), (125, 54322), (149, 54208), (151, 54202), (155, 54172), (167, 54112), (171, 54091), (180, 54037), (183, 54025), (186, 54007), (188, 53995), (207, 53890), (214, 53833), (218, 53797), (219, 53785), (225, 53758), (229, 53731), (231, 53713), (233, 53695), (241, 53656), (242, 53647), (243, 53644), (275, 53386), (289, 53284), (292, 53251), (295, 53230), (303, 53137), (305, 53128), (309, 53065), (313, 53029), (314, 53026), (317, 53011), (326, 52933), (327, 52921), (329, 52900), (337, 52861), (351, 52771), (354, 52753), (355, 52747), (357, 52732), (361, 52708), (363, 52693), (364, 52690), (365, 52678), (369, 52654), (378, 52606), (381, 52582),

Gene: ShadowBud_61 Start: 54308, Stop: 52449, Start Num: 105

Candidate Starts for ShadowBud_61:

(Start: 97 @54332 has 5 MA's), (Start: 105 @54308 has 315 MA's), (Start: 116 @54284 has 6 MA's), (Start: 118 @54278 has 2 MA's), (123, 54236), (125, 54215), (149, 54101), (151, 54095), (155, 54065), (167, 54005), (171, 53984), (180, 53930), (183, 53918), (186, 53900), (188, 53888), (207, 53783), (214, 53726), (218, 53690), (219, 53678), (224, 53654), (226, 53642), (229, 53624), (231, 53606), (233, 53588), (241, 53549), (242, 53540), (243, 53537), (244, 53534), (289, 53177), (292, 53144), (295, 53123), (303, 53030), (305, 53021), (309, 52958), (313, 52922), (314, 52919), (317, 52904), (326, 52826), (327, 52814), (329, 52793), (337, 52754), (351, 52664), (354, 52646), (355, 52640), (357, 52625), (361, 52601), (363, 52586), (364, 52583), (365, 52571), (369, 52547), (378, 52499), (381, 52475),

Gene: Shatter_51 Start: 45981, Stop: 44164, Start Num: 115

Candidate Starts for Shatter_51:

(44, 46302), (51, 46278), (Start: 115 @45981 has 14 MA's), (120, 45945), (123, 45930), (128, 45900), (154, 45774), (178, 45651), (180, 45636), (188, 45594), (207, 45498), (218, 45405), (238, 45276), (243, 45252), (284, 44940), (287, 44922), (292, 44865), (303, 44751), (305, 44742), (309, 44679), (314, 44640), (317, 44625), (326, 44547), (327, 44535), (329, 44514), (331, 44505), (348, 44418), (352, 44382), (353, 44370), (359, 44331), (361, 44322), (363, 44307), (369, 44262), (381, 44190),

Gene: Sheila_58 Start: 53417, Stop: 51558, Start Num: 105

Candidate Starts for Sheila_58:

(Start: 97 @53441 has 5 MA's), (Start: 105 @53417 has 315 MA's), (Start: 116 @53393 has 6 MA's),
(Start: 118 @53387 has 2 MA's), (120, 53360), (123, 53345), (125, 53324), (151, 53204), (155, 53174),
(167, 53114), (171, 53093), (180, 53039), (183, 53027), (186, 53009), (188, 52997), (207, 52892),
(214, 52835), (218, 52799), (219, 52787), (225, 52760), (231, 52715), (241, 52658), (242, 52649),
(243, 52646), (244, 52643), (275, 52388), (289, 52286), (292, 52253), (295, 52232), (303, 52139),
(305, 52130), (309, 52067), (313, 52031), (314, 52028), (317, 52013), (326, 51935), (327, 51923),
(329, 51902), (337, 51863), (351, 51773), (354, 51755), (355, 51749), (357, 51734), (361, 51710),
(363, 51695), (364, 51692), (365, 51680), (369, 51656), (378, 51608), (381, 51584),

Gene: Shenandoah_57 Start: 53309, Stop: 51492, Start Num: 117

Candidate Starts for Shenandoah_57:

(75, 53492), (Start: 117 @53309 has 46 MA's), (120, 53279), (159, 53099), (178, 52994), (185, 52946),
(187, 52934), (192, 52904), (194, 52898), (207, 52835), (208, 52829), (214, 52778), (218, 52742),
(226, 52694), (243, 52589), (257, 52493), (265, 52442), (282, 52298), (287, 52259), (290, 52229),
(292, 52202), (294, 52190), (302, 52094), (303, 52088), (305, 52079), (306, 52067), (311, 51995),
(313, 51965), (317, 51947), (318, 51938), (326, 51869), (327, 51857), (329, 51836), (342, 51767),
(345, 51752), (350, 51728), (354, 51689), (355, 51683), (361, 51644), (364, 51626), (365, 51614),
(367, 51602), (369, 51590), (381, 51518),

Gene: Shenyu_58 Start: 54813, Stop: 52966, Start Num: 97

Candidate Starts for Shenyu_58:

(15, 55296), (16, 55290), (19, 55239), (22, 55221), (28, 55164), (82, 54876), (Start: 97 @54813 has 5
MA's), (Start: 117 @54765 has 46 MA's), (120, 54738), (130, 54687), (158, 54567), (186, 54417), (193,
54375), (201, 54339), (207, 54309), (218, 54216), (219, 54204), (224, 54180), (226, 54168), (229,
54150), (238, 54087), (243, 54063), (259, 53958), (260, 53949), (271, 53835), (283, 53769), (284,
53751), (290, 53703), (292, 53676), (302, 53568), (303, 53562), (305, 53553), (307, 53532), (311,
53469), (314, 53436), (317, 53421), (323, 53361), (326, 53343), (327, 53331), (329, 53310), (331,
53301), (332, 53298), (334, 53286), (351, 53181), (354, 53163), (355, 53157), (361, 53118), (363,
53103), (364, 53100), (367, 53076), (369, 53064), (370, 53061), (379, 53013), (381, 52992), (383,
52971),

Gene: ShiVal_58 Start: 54054, Stop: 52195, Start Num: 105

Candidate Starts for ShiVal_58:

(Start: 97 @54078 has 5 MA's), (Start: 105 @54054 has 315 MA's), (Start: 116 @54030 has 6 MA's),
(Start: 118 @54024 has 2 MA's), (123, 53982), (125, 53961), (149, 53847), (151, 53841), (155, 53811),
(167, 53751), (171, 53730), (180, 53676), (183, 53664), (186, 53646), (188, 53634), (207, 53529),
(214, 53472), (218, 53436), (219, 53424), (225, 53397), (229, 53370), (231, 53352), (233, 53334),
(241, 53295), (242, 53286), (243, 53283), (275, 53025), (289, 52923), (292, 52890), (295, 52869),
(303, 52776), (305, 52767), (309, 52704), (313, 52668), (314, 52665), (317, 52650), (326, 52572),
(327, 52560), (329, 52539), (337, 52500), (351, 52410), (354, 52392), (355, 52386), (357, 52371),
(361, 52347), (363, 52332), (364, 52329), (365, 52317), (369, 52293), (378, 52245), (381, 52221),

Gene: Sigman_61 Start: 54010, Stop: 52151, Start Num: 105

Candidate Starts for Sigman_61:

(Start: 97 @54034 has 5 MA's), (Start: 105 @54010 has 315 MA's), (Start: 116 @53986 has 6 MA's),
(Start: 118 @53980 has 2 MA's), (123, 53938), (125, 53917), (149, 53803), (151, 53797), (155, 53767),
(167, 53707), (171, 53686), (180, 53632), (183, 53620), (186, 53602), (188, 53590), (207, 53485),
(214, 53428), (218, 53392), (219, 53380), (224, 53356), (226, 53344), (229, 53326), (231, 53308),
(233, 53290), (241, 53251), (242, 53242), (243, 53239), (244, 53236), (289, 52879), (292, 52846),
(295, 52825), (303, 52732), (305, 52723), (309, 52660), (313, 52624), (314, 52621), (317, 52606),
(326, 52528), (327, 52516), (329, 52495), (337, 52456), (351, 52366), (354, 52348), (355, 52342),
(357, 52327), (361, 52303), (363, 52288), (364, 52285), (365, 52273), (369, 52249), (378, 52201),

(381, 52177),

Gene: SilverBell_61 Start: 54295, Stop: 52436, Start Num: 105

Candidate Starts for SilverBell_61:

(Start: 97 @54319 has 5 MA's), (Start: 105 @54295 has 315 MA's), (Start: 116 @54271 has 6 MA's),
(Start: 118 @54265 has 2 MA's), (123, 54223), (125, 54202), (149, 54088), (151, 54082), (155, 54052),
(167, 53992), (171, 53971), (180, 53917), (183, 53905), (186, 53887), (188, 53875), (207, 53770),
(214, 53713), (218, 53677), (219, 53665), (224, 53641), (226, 53629), (229, 53611), (231, 53593),
(233, 53575), (241, 53536), (242, 53527), (243, 53524), (244, 53521), (289, 53164), (292, 53131),
(295, 53110), (303, 53017), (305, 53008), (309, 52945), (313, 52909), (314, 52906), (317, 52891),
(326, 52813), (327, 52801), (329, 52780), (337, 52741), (351, 52651), (354, 52633), (355, 52627),
(357, 52612), (361, 52588), (363, 52573), (364, 52570), (365, 52558), (369, 52534), (378, 52486),
(381, 52462),

Gene: Simielle_60 Start: 54014, Stop: 52155, Start Num: 105

Candidate Starts for Simielle_60:

(Start: 97 @54038 has 5 MA's), (Start: 105 @54014 has 315 MA's), (Start: 116 @53990 has 6 MA's),
(Start: 118 @53984 has 2 MA's), (123, 53942), (125, 53921), (149, 53807), (151, 53801), (155, 53771),
(167, 53711), (171, 53690), (180, 53636), (183, 53624), (186, 53606), (188, 53594), (207, 53489),
(214, 53432), (218, 53396), (219, 53384), (225, 53357), (231, 53312), (241, 53255), (242, 53246),
(243, 53243), (275, 52985), (289, 52883), (292, 52850), (295, 52829), (303, 52736), (305, 52727),
(309, 52664), (313, 52628), (314, 52625), (317, 52610), (326, 52532), (327, 52520), (329, 52499),
(337, 52460), (351, 52370), (354, 52352), (355, 52346), (357, 52331), (361, 52307), (363, 52292),
(364, 52289), (365, 52277), (369, 52253), (378, 52205), (381, 52181),

Gene: SirBeauregard_61 Start: 54580, Stop: 52721, Start Num: 105

Candidate Starts for SirBeauregard_61:

(Start: 97 @54604 has 5 MA's), (Start: 105 @54580 has 315 MA's), (Start: 116 @54556 has 6 MA's),
(Start: 118 @54550 has 2 MA's), (123, 54508), (125, 54487), (149, 54373), (151, 54367), (155, 54337),
(167, 54277), (171, 54256), (180, 54202), (183, 54190), (186, 54172), (188, 54160), (207, 54055),
(214, 53998), (218, 53962), (219, 53950), (224, 53926), (226, 53914), (229, 53896), (231, 53878),
(233, 53860), (241, 53821), (242, 53812), (243, 53809), (244, 53806), (289, 53449), (292, 53416),
(295, 53395), (303, 53302), (305, 53293), (309, 53230), (313, 53194), (314, 53191), (317, 53176),
(326, 53098), (327, 53086), (329, 53065), (337, 53026), (351, 52936), (354, 52918), (355, 52912),
(357, 52897), (361, 52873), (363, 52858), (364, 52855), (365, 52843), (369, 52819), (378, 52771),
(381, 52747),

Gene: SirJeffery_57 Start: 54475, Stop: 52676, Start Num: 117

Candidate Starts for SirJeffery_57:

(76, 54625), (84, 54559), (Start: 99 @54505 has 12 MA's), (112, 54484), (Start: 117 @54475 has 46
MA's), (120, 54448), (129, 54400), (155, 54289), (158, 54277), (186, 54127), (191, 54097), (193,
54085), (201, 54049), (207, 54019), (218, 53926), (219, 53914), (220, 53911), (224, 53890), (226,
53878), (229, 53860), (238, 53797), (243, 53773), (259, 53668), (271, 53545), (275, 53521), (280,
53494), (282, 53482), (283, 53479), (284, 53461), (290, 53413), (292, 53386), (296, 53335), (303,
53272), (305, 53263), (311, 53179), (314, 53146), (317, 53131), (323, 53071), (326, 53053), (327,
53041), (329, 53020), (331, 53011), (332, 53008), (351, 52891), (354, 52873), (355, 52867), (361,
52828), (362, 52816), (363, 52813), (365, 52798), (367, 52786), (369, 52774), (370, 52771), (376,
52732), (379, 52723), (381, 52702), (383, 52681),

Gene: Sisko_49 Start: 45974, Stop: 44160, Start Num: 111

Candidate Starts for Sisko_49:

(86, 46064), (88, 46058), (Start: 111 @45974 has 5 MA's), (Start: 118 @45965 has 2 MA's), (123,
45923), (149, 45797), (157, 45755), (165, 45713), (178, 45644), (185, 45605), (187, 45593), (188,

45590), (204, 45515), (207, 45494), (218, 45401), (237, 45275), (241, 45260), (243, 45248), (256, 45158), (284, 44936), (292, 44861), (303, 44747), (305, 44738), (309, 44675), (314, 44636), (317, 44621), (326, 44543), (327, 44531), (328, 44525), (329, 44510), (331, 44501), (333, 44492), (348, 44414), (351, 44381), (352, 44378), (360, 44324), (361, 44318), (365, 44282), (369, 44258), (381, 44186),

Gene: Skippy_61 Start: 54268, Stop: 52409, Start Num: 105

Candidate Starts for Skippy_61:

(Start: 97 @54292 has 5 MA's), (Start: 105 @54268 has 315 MA's), (Start: 116 @54244 has 6 MA's), (Start: 118 @54238 has 2 MA's), (123, 54196), (125, 54175), (149, 54061), (151, 54055), (155, 54025), (167, 53965), (171, 53944), (180, 53890), (183, 53878), (186, 53860), (188, 53848), (207, 53743), (214, 53686), (218, 53650), (219, 53638), (224, 53614), (226, 53602), (229, 53584), (231, 53566), (233, 53548), (241, 53509), (242, 53500), (243, 53497), (244, 53494), (275, 53239), (289, 53137), (292, 53104), (295, 53083), (303, 52990), (305, 52981), (309, 52918), (313, 52882), (314, 52879), (317, 52864), (326, 52786), (327, 52774), (329, 52753), (337, 52714), (351, 52624), (354, 52606), (355, 52600), (357, 52585), (361, 52561), (363, 52546), (364, 52543), (365, 52531), (369, 52507), (372, 52486), (378, 52459), (381, 52435),

Gene: Slatt_61 Start: 54333, Stop: 52474, Start Num: 105

Candidate Starts for Slatt_61:

(Start: 97 @54357 has 5 MA's), (Start: 105 @54333 has 315 MA's), (Start: 116 @54309 has 6 MA's), (Start: 118 @54303 has 2 MA's), (123, 54261), (125, 54240), (149, 54126), (151, 54120), (155, 54090), (167, 54030), (171, 54009), (180, 53955), (183, 53943), (186, 53925), (188, 53913), (207, 53808), (214, 53751), (218, 53715), (219, 53703), (225, 53676), (229, 53649), (231, 53631), (233, 53613), (241, 53574), (242, 53565), (243, 53562), (289, 53202), (292, 53169), (295, 53148), (303, 53055), (305, 53046), (309, 52983), (313, 52947), (314, 52944), (317, 52929), (326, 52851), (327, 52839), (329, 52818), (337, 52779), (351, 52689), (354, 52671), (355, 52665), (357, 52650), (361, 52626), (363, 52611), (364, 52608), (365, 52596), (369, 52572), (378, 52524), (381, 52500),

Gene: SlippinJimmy_60 Start: 54842, Stop: 53025, Start Num: 117

Candidate Starts for SlippinJimmy_60:

(75, 55025), (Start: 117 @54842 has 46 MA's), (120, 54812), (159, 54632), (185, 54479), (187, 54467), (192, 54437), (194, 54431), (207, 54368), (208, 54362), (214, 54311), (218, 54275), (226, 54227), (243, 54122), (257, 54026), (265, 53975), (282, 53831), (287, 53792), (290, 53762), (292, 53735), (294, 53723), (302, 53627), (303, 53621), (305, 53612), (306, 53600), (311, 53528), (313, 53498), (317, 53480), (318, 53471), (326, 53402), (327, 53390), (329, 53369), (342, 53300), (345, 53285), (350, 53261), (351, 53240), (354, 53222), (355, 53216), (360, 53183), (361, 53177), (364, 53159), (365, 53147), (367, 53135), (369, 53123), (376, 53081), (381, 53051),

Gene: Soile_61 Start: 54557, Stop: 52698, Start Num: 105

Candidate Starts for Soile_61:

(Start: 97 @54581 has 5 MA's), (Start: 105 @54557 has 315 MA's), (Start: 116 @54533 has 6 MA's), (Start: 118 @54527 has 2 MA's), (123, 54485), (125, 54464), (149, 54350), (151, 54344), (155, 54314), (167, 54254), (171, 54233), (180, 54179), (183, 54167), (186, 54149), (188, 54137), (207, 54032), (214, 53975), (218, 53939), (219, 53927), (224, 53903), (226, 53891), (229, 53873), (231, 53855), (233, 53837), (241, 53798), (242, 53789), (243, 53786), (244, 53783), (289, 53426), (292, 53393), (295, 53372), (303, 53279), (305, 53270), (309, 53207), (313, 53171), (314, 53168), (317, 53153), (326, 53075), (327, 53063), (329, 53042), (337, 53003), (351, 52913), (354, 52895), (355, 52889), (357, 52874), (361, 52850), (363, 52835), (364, 52832), (365, 52820), (369, 52796), (378, 52748), (381, 52724),

Gene: Solosis_59 Start: 54029, Stop: 52170, Start Num: 105

Candidate Starts for Solosis_59:

(Start: 97 @54053 has 5 MA's), (Start: 105 @54029 has 315 MA's), (Start: 116 @54005 has 6 MA's),
(Start: 118 @53999 has 2 MA's), (123, 53957), (125, 53936), (149, 53822), (151, 53816), (155, 53786),
(167, 53726), (171, 53705), (180, 53651), (183, 53639), (186, 53621), (188, 53609), (207, 53504),
(214, 53447), (218, 53411), (219, 53399), (225, 53372), (231, 53327), (241, 53270), (242, 53261),
(243, 53258), (289, 52898), (292, 52865), (295, 52844), (303, 52751), (305, 52742), (309, 52679),
(313, 52643), (314, 52640), (317, 52625), (326, 52547), (327, 52535), (329, 52514), (337, 52475),
(351, 52385), (354, 52367), (355, 52361), (357, 52346), (361, 52322), (363, 52307), (364, 52304),
(365, 52292), (369, 52268), (378, 52220), (381, 52196),

Gene: Sophia_59 Start: 54023, Stop: 52164, Start Num: 105

Candidate Starts for Sophia_59:

(Start: 97 @54047 has 5 MA's), (Start: 105 @54023 has 315 MA's), (Start: 116 @53999 has 6 MA's),
(Start: 118 @53993 has 2 MA's), (123, 53951), (125, 53930), (149, 53816), (151, 53810), (155, 53780),
(167, 53720), (171, 53699), (180, 53645), (183, 53633), (186, 53615), (188, 53603), (207, 53498),
(214, 53441), (218, 53405), (219, 53393), (225, 53366), (231, 53321), (241, 53264), (242, 53255),
(243, 53252), (275, 52994), (289, 52892), (292, 52859), (295, 52838), (303, 52745), (305, 52736),
(309, 52673), (314, 52634), (317, 52619), (326, 52541), (327, 52529), (329, 52508), (337, 52469),
(351, 52379), (354, 52361), (355, 52355), (357, 52340), (361, 52316), (363, 52301), (364, 52298),
(365, 52286), (369, 52262), (378, 52214), (381, 52190),

Gene: Soto_59 Start: 53590, Stop: 51731, Start Num: 105

Candidate Starts for Soto_59:

(Start: 97 @53614 has 5 MA's), (Start: 105 @53590 has 315 MA's), (Start: 116 @53566 has 6 MA's),
(Start: 118 @53560 has 2 MA's), (120, 53533), (123, 53518), (125, 53497), (149, 53383), (151, 53377),
(155, 53347), (167, 53287), (171, 53266), (180, 53212), (183, 53200), (186, 53182), (188, 53170),
(207, 53065), (214, 53008), (218, 52972), (219, 52960), (225, 52933), (226, 52924), (231, 52888),
(241, 52831), (242, 52822), (243, 52819), (244, 52816), (289, 52459), (292, 52426), (295, 52405),
(303, 52312), (305, 52303), (309, 52240), (313, 52204), (314, 52201), (317, 52186), (326, 52108),
(327, 52096), (329, 52075), (337, 52036), (351, 51946), (354, 51928), (355, 51922), (357, 51907),
(361, 51883), (363, 51868), (364, 51865), (365, 51853), (369, 51829), (378, 51781), (381, 51757),

Gene: Sour_53 Start: 49160, Stop: 47364, Start Num: 118

Candidate Starts for Sour_53:

(Start: 111 @49166 has 5 MA's), (Start: 118 @49160 has 2 MA's), (120, 49133), (122, 49121), (123,
49118), (128, 49088), (155, 48962), (178, 48842), (185, 48803), (188, 48788), (204, 48713), (207,
48695), (218, 48602), (226, 48554), (238, 48473), (243, 48449), (247, 48425), (252, 48383), (265,
48302), (267, 48284), (284, 48137), (292, 48062), (302, 47957), (303, 47951), (305, 47942), (309,
47879), (314, 47840), (315, 47837), (317, 47825), (326, 47747), (327, 47735), (329, 47714), (331,
47705), (339, 47666), (345, 47630), (348, 47618), (351, 47585), (352, 47582), (361, 47522), (363,
47507), (369, 47462), (378, 47414), (381, 47390),

Gene: Spartan300_60 Start: 54251, Stop: 52392, Start Num: 105

Candidate Starts for Spartan300_60:

(Start: 97 @54275 has 5 MA's), (Start: 105 @54251 has 315 MA's), (Start: 116 @54227 has 6 MA's),
(Start: 118 @54221 has 2 MA's), (123, 54179), (125, 54158), (149, 54044), (151, 54038), (155, 54008),
(167, 53948), (171, 53927), (180, 53873), (183, 53861), (186, 53843), (188, 53831), (207, 53726),
(214, 53669), (218, 53633), (219, 53621), (224, 53597), (226, 53585), (229, 53567), (231, 53549),
(233, 53531), (241, 53492), (242, 53483), (243, 53480), (244, 53477), (289, 53120), (292, 53087),
(295, 53066), (303, 52973), (305, 52964), (309, 52901), (313, 52865), (314, 52862), (317, 52847),
(326, 52769), (327, 52757), (329, 52736), (337, 52697), (351, 52607), (354, 52589), (355, 52583),
(357, 52568), (361, 52544), (363, 52529), (364, 52526), (365, 52514), (369, 52490), (378, 52442),
(381, 52418),

Gene: Squid_60 Start: 54035, Stop: 52176, Start Num: 105

Candidate Starts for Squid_60:

(Start: 97 @54059 has 5 MA's), (Start: 105 @54035 has 315 MA's), (Start: 116 @54011 has 6 MA's),
(Start: 118 @54005 has 2 MA's), (123, 53963), (125, 53942), (149, 53828), (151, 53822), (155, 53792),
(167, 53732), (171, 53711), (180, 53657), (183, 53645), (186, 53627), (188, 53615), (207, 53510),
(214, 53453), (218, 53417), (219, 53405), (225, 53378), (229, 53351), (231, 53333), (233, 53315),
(241, 53276), (242, 53267), (243, 53264), (275, 53006), (289, 52904), (292, 52871), (295, 52850),
(303, 52757), (305, 52748), (309, 52685), (313, 52649), (314, 52646), (317, 52631), (326, 52553),
(327, 52541), (329, 52520), (337, 52481), (351, 52391), (354, 52373), (355, 52367), (357, 52352),
(361, 52328), (363, 52313), (364, 52310), (365, 52298), (369, 52274), (378, 52226), (381, 52202),

Gene: Squiggle_61 Start: 54043, Stop: 52184, Start Num: 105

Candidate Starts for Squiggle_61:

(Start: 97 @54067 has 5 MA's), (Start: 105 @54043 has 315 MA's), (Start: 116 @54019 has 6 MA's),
(Start: 118 @54013 has 2 MA's), (123, 53971), (125, 53950), (149, 53836), (151, 53830), (155, 53800),
(167, 53740), (171, 53719), (180, 53665), (183, 53653), (186, 53635), (188, 53623), (207, 53518),
(214, 53461), (218, 53425), (219, 53413), (225, 53386), (231, 53341), (241, 53284), (242, 53275),
(243, 53272), (289, 52912), (292, 52879), (295, 52858), (303, 52765), (305, 52756), (309, 52693),
(313, 52657), (314, 52654), (317, 52639), (326, 52561), (327, 52549), (329, 52528), (337, 52489),
(350, 52420), (351, 52399), (354, 52381), (355, 52375), (357, 52360), (361, 52336), (363, 52321),
(364, 52318), (365, 52306), (369, 52282), (378, 52234), (381, 52210),

Gene: StAugustine_85 Start: 66670, Stop: 64871, Start Num: 116

Candidate Starts for StAugustine_85:

(Start: 116 @66670 has 6 MA's), (120, 66637), (123, 66622), (124, 66610), (131, 66583), (141, 66565),
(144, 66538), (163, 66445), (167, 66427), (170, 66409), (180, 66352), (190, 66301), (214, 66160),
(217, 66133), (218, 66124), (234, 66010), (243, 65971), (248, 65941), (251, 65923), (265, 65809),
(275, 65704), (278, 65689), (289, 65602), (292, 65569), (293, 65563), (302, 65461), (303, 65455),
(305, 65446), (313, 65347), (314, 65344), (317, 65329), (319, 65314), (326, 65251), (327, 65239),
(329, 65218), (348, 65122), (351, 65089), (361, 65026), (365, 64996), (366, 64990), (367, 64984),
(369, 64972), (377, 64924), (381, 64897), (382, 64882), (383, 64876),

Gene: Stinger_54 Start: 52910, Stop: 51081, Start Num: 99

Candidate Starts for Stinger_54:

(Start: 99 @52910 has 12 MA's), (Start: 118 @52880 has 2 MA's), (120, 52853), (123, 52838), (125,
52817), (146, 52730), (149, 52712), (166, 52625), (171, 52598), (173, 52583), (186, 52517), (188,
52505), (191, 52487), (192, 52478), (193, 52475), (194, 52472), (199, 52445), (214, 52352), (216,
52334), (218, 52316), (219, 52304), (225, 52277), (242, 52166), (243, 52163), (248, 52133), (250,
52118), (252, 52097), (264, 52019), (283, 51869), (287, 51833), (290, 51803), (292, 51776), (302,
51668), (303, 51662), (305, 51653), (312, 51563), (313, 51554), (314, 51551), (317, 51536), (326,
51458), (327, 51446), (329, 51425), (331, 51416), (337, 51386), (348, 51329), (351, 51296), (354,
51278), (355, 51272), (358, 51245), (361, 51233), (363, 51218), (364, 51215), (365, 51203), (369,
51179), (376, 51137), (378, 51131), (381, 51107),

Gene: StinkyVeggy_58 Start: 54598, Stop: 52751, Start Num: 97

Candidate Starts for StinkyVeggy_58:

(15, 55093), (16, 55087), (19, 55036), (22, 55018), (28, 54961), (60, 54817), (82, 54664), (Start: 97
@54598 has 5 MA's), (Start: 117 @54550 has 46 MA's), (120, 54523), (130, 54472), (141, 54451),
(149, 54397), (158, 54352), (168, 54301), (186, 54202), (193, 54160), (201, 54124), (207, 54094),
(218, 54001), (219, 53989), (224, 53965), (226, 53953), (229, 53935), (238, 53872), (243, 53848),
(259, 53743), (271, 53620), (283, 53554), (284, 53536), (290, 53488), (292, 53461), (302, 53353),
(303, 53347), (305, 53338), (307, 53317), (311, 53254), (314, 53221), (317, 53206), (323, 53146),
(326, 53128), (327, 53116), (329, 53095), (331, 53086), (332, 53083), (334, 53071), (351, 52966),

(354, 52948), (355, 52942), (361, 52903), (363, 52888), (364, 52885), (367, 52861), (369, 52849),
(370, 52846), (379, 52798), (381, 52777),

Gene: Struggle_61 Start: 54120, Stop: 52261, Start Num: 105

Candidate Starts for Struggle_61:

(Start: 97 @54144 has 5 MA's), (Start: 105 @54120 has 315 MA's), (Start: 116 @54096 has 6 MA's),
(Start: 118 @54090 has 2 MA's), (123, 54048), (125, 54027), (149, 53913), (151, 53907), (155, 53877),
(167, 53817), (171, 53796), (180, 53742), (183, 53730), (186, 53712), (188, 53700), (207, 53595),
(214, 53538), (218, 53502), (219, 53490), (224, 53466), (226, 53454), (229, 53436), (231, 53418),
(233, 53400), (241, 53361), (242, 53352), (243, 53349), (244, 53346), (289, 52989), (292, 52956),
(295, 52935), (303, 52842), (305, 52833), (309, 52770), (313, 52734), (314, 52731), (317, 52716),
(326, 52638), (327, 52626), (329, 52605), (337, 52566), (351, 52476), (354, 52458), (355, 52452),
(357, 52437), (361, 52413), (363, 52398), (364, 52395), (365, 52383), (369, 52359), (372, 52338),
(378, 52311), (381, 52287), (382, 52272),

Gene: Suffolk_59 Start: 53538, Stop: 51679, Start Num: 105

Candidate Starts for Suffolk_59:

(Start: 97 @53562 has 5 MA's), (Start: 105 @53538 has 315 MA's), (Start: 116 @53514 has 6 MA's),
(Start: 118 @53508 has 2 MA's), (123, 53466), (125, 53445), (149, 53331), (151, 53325), (155, 53295),
(167, 53235), (171, 53214), (180, 53160), (183, 53148), (186, 53130), (188, 53118), (207, 53013),
(214, 52956), (218, 52920), (219, 52908), (224, 52884), (226, 52872), (229, 52854), (231, 52836),
(233, 52818), (241, 52779), (242, 52770), (243, 52767), (244, 52764), (289, 52407), (292, 52374),
(295, 52353), (303, 52260), (305, 52251), (309, 52188), (313, 52152), (314, 52149), (317, 52134),
(326, 52056), (327, 52044), (329, 52023), (337, 51984), (351, 51894), (354, 51876), (355, 51870),
(357, 51855), (361, 51831), (363, 51816), (364, 51813), (365, 51801), (369, 51777), (378, 51729),
(381, 51705),

Gene: Suigeneris_59 Start: 54668, Stop: 52842, Start Num: 99

Candidate Starts for Suigeneris_59:

(Start: 99 @54668 has 12 MA's), (120, 54614), (135, 54554), (158, 54443), (167, 54395), (186, 54293),
(191, 54263), (193, 54251), (201, 54215), (207, 54185), (218, 54092), (219, 54080), (224, 54056),
(226, 54044), (229, 54026), (238, 53963), (243, 53939), (244, 53936), (259, 53834), (283, 53645),
(284, 53627), (287, 53609), (290, 53579), (292, 53552), (302, 53444), (303, 53438), (305, 53429),
(307, 53408), (311, 53345), (314, 53312), (317, 53297), (323, 53237), (326, 53219), (327, 53207),
(329, 53186), (331, 53177), (332, 53174), (351, 53057), (355, 53033), (361, 52994), (363, 52979),
(364, 52976), (367, 52952), (369, 52940), (370, 52937), (372, 52919), (379, 52889), (381, 52868),
(383, 52847),

Gene: Surely_60 Start: 54325, Stop: 52466, Start Num: 105

Candidate Starts for Surely_60:

(Start: 97 @54349 has 5 MA's), (Start: 105 @54325 has 315 MA's), (Start: 116 @54301 has 6 MA's),
(Start: 118 @54295 has 2 MA's), (123, 54253), (125, 54232), (149, 54118), (151, 54112), (155, 54082),
(167, 54022), (171, 54001), (180, 53947), (183, 53935), (186, 53917), (188, 53905), (207, 53800),
(214, 53743), (218, 53707), (219, 53695), (225, 53668), (229, 53641), (231, 53623), (233, 53605),
(241, 53566), (242, 53557), (243, 53554), (275, 53296), (289, 53194), (292, 53161), (295, 53140),
(303, 53047), (305, 53038), (309, 52975), (313, 52939), (314, 52936), (317, 52921), (326, 52843),
(327, 52831), (329, 52810), (337, 52771), (351, 52681), (354, 52663), (355, 52657), (357, 52642),
(361, 52618), (363, 52603), (364, 52600), (365, 52588), (369, 52564), (372, 52543), (378, 52516),
(381, 52492),

Gene: SwainyDoc_59 Start: 54074, Stop: 52254, Start Num: 116

Candidate Starts for SwainyDoc_59:

(Start: 116 @54074 has 6 MA's), (120, 54041), (159, 53861), (178, 53756), (185, 53708), (187, 53696), (192, 53666), (194, 53660), (207, 53597), (208, 53591), (214, 53540), (218, 53504), (226, 53456), (243, 53351), (257, 53255), (265, 53204), (282, 53060), (287, 53021), (290, 52991), (292, 52964), (294, 52952), (302, 52856), (303, 52850), (305, 52841), (306, 52829), (311, 52757), (313, 52727), (317, 52709), (318, 52700), (326, 52631), (327, 52619), (329, 52598), (342, 52529), (345, 52514), (350, 52490), (351, 52469), (354, 52451), (355, 52445), (360, 52412), (361, 52406), (364, 52388), (365, 52376), (367, 52364), (369, 52352), (376, 52310), (381, 52280),

Gene: Swiphy_62 Start: 54569, Stop: 52710, Start Num: 105

Candidate Starts for Swiphy_62:

(Start: 97 @54593 has 5 MA's), (Start: 105 @54569 has 315 MA's), (Start: 116 @54545 has 6 MA's), (Start: 118 @54539 has 2 MA's), (123, 54497), (125, 54476), (149, 54362), (151, 54356), (155, 54326), (167, 54266), (171, 54245), (180, 54191), (183, 54179), (186, 54161), (188, 54149), (207, 54044), (214, 53987), (218, 53951), (219, 53939), (224, 53915), (226, 53903), (229, 53885), (231, 53867), (233, 53849), (241, 53810), (242, 53801), (243, 53798), (244, 53795), (289, 53438), (292, 53405), (295, 53384), (303, 53291), (305, 53282), (309, 53219), (313, 53183), (314, 53180), (317, 53165), (326, 53087), (327, 53075), (329, 53054), (337, 53015), (351, 52925), (354, 52907), (355, 52901), (357, 52886), (361, 52862), (363, 52847), (364, 52844), (365, 52832), (369, 52808), (378, 52760), (381, 52736),

Gene: Swish_62 Start: 54299, Stop: 52440, Start Num: 105

Candidate Starts for Swish_62:

(Start: 97 @54323 has 5 MA's), (Start: 105 @54299 has 315 MA's), (Start: 116 @54275 has 6 MA's), (Start: 118 @54269 has 2 MA's), (123, 54227), (125, 54206), (149, 54092), (151, 54086), (155, 54056), (167, 53996), (171, 53975), (180, 53921), (183, 53909), (186, 53891), (188, 53879), (207, 53774), (214, 53717), (218, 53681), (219, 53669), (224, 53645), (226, 53633), (229, 53615), (231, 53597), (233, 53579), (241, 53540), (242, 53531), (243, 53528), (244, 53525), (289, 53168), (292, 53135), (295, 53114), (303, 53021), (305, 53012), (309, 52949), (313, 52913), (314, 52910), (317, 52895), (326, 52817), (327, 52805), (329, 52784), (337, 52745), (351, 52655), (354, 52637), (355, 52631), (357, 52616), (361, 52592), (363, 52577), (364, 52574), (365, 52562), (369, 52538), (378, 52490), (381, 52466),

Gene: SynergyX_58 Start: 53681, Stop: 51864, Start Num: 117

Candidate Starts for SynergyX_58:

(75, 53864), (Start: 117 @53681 has 46 MA's), (120, 53651), (159, 53471), (185, 53318), (187, 53306), (192, 53276), (194, 53270), (207, 53207), (208, 53201), (214, 53150), (218, 53114), (226, 53066), (243, 52961), (257, 52865), (265, 52814), (282, 52670), (287, 52631), (290, 52601), (292, 52574), (294, 52562), (302, 52466), (303, 52460), (305, 52451), (306, 52439), (311, 52367), (313, 52337), (317, 52319), (318, 52310), (326, 52241), (327, 52229), (329, 52208), (342, 52139), (345, 52124), (350, 52100), (351, 52079), (354, 52061), (355, 52055), (360, 52022), (361, 52016), (364, 51998), (365, 51986), (367, 51974), (369, 51962), (376, 51920), (381, 51890),

Gene: TA17A_58 Start: 52484, Stop: 50655, Start Num: 105

Candidate Starts for TA17A_58:

(Start: 105 @52484 has 315 MA's), (Start: 118 @52457 has 2 MA's), (121, 52427), (123, 52415), (127, 52388), (128, 52385), (132, 52376), (141, 52358), (157, 52262), (167, 52211), (172, 52187), (175, 52163), (199, 52025), (205, 52001), (207, 51989), (214, 51932), (218, 51896), (224, 51860), (235, 51776), (242, 51746), (243, 51743), (248, 51713), (268, 51569), (274, 51503), (282, 51452), (284, 51431), (287, 51413), (292, 51356), (297, 51299), (301, 51272), (303, 51242), (305, 51233), (309, 51167), (312, 51140), (313, 51131), (317, 51113), (320, 51089), (326, 51035), (327, 51023), (329, 51002), (342, 50933), (351, 50873), (354, 50855), (358, 50822), (361, 50810), (363, 50795), (364, 50792), (365, 50780), (369, 50756), (370, 50753), (378, 50705), (379, 50702), (381, 50681), (383, 50660),

Gene: TPA2_63 Start: 52427, Stop: 50550, Start Num: 115

Candidate Starts for TPA2_63:

(41, 52787), (77, 52604), (Start: 115 @52427 has 14 MA's), (Start: 118 @52418 has 2 MA's), (122, 52379), (131, 52337), (135, 52325), (141, 52319), (155, 52232), (157, 52223), (165, 52181), (170, 52154), (174, 52133), (190, 52043), (195, 52022), (196, 52004), (198, 51998), (204, 51980), (214, 51902), (218, 51866), (219, 51854), (220, 51851), (224, 51830), (239, 51734), (245, 51701), (252, 51647), (272, 51482), (281, 51431), (287, 51383), (292, 51326), (299, 51248), (301, 51239), (302, 51215), (303, 51209), (309, 51137), (313, 51101), (317, 51083), (323, 51023), (326, 51005), (327, 50993), (329, 50972), (331, 50963), (340, 50912), (358, 50792), (361, 50780), (367, 50732), (368, 50723), (369, 50720), (371, 50711), (372, 50699), (380, 50651), (384, 50612), (385, 50594),

Gene: TallGrassMM_60 Start: 53939, Stop: 52080, Start Num: 105

Candidate Starts for TallGrassMM_60:

(Start: 97 @53963 has 5 MA's), (Start: 105 @53939 has 315 MA's), (Start: 116 @53915 has 6 MA's), (Start: 118 @53909 has 2 MA's), (123, 53867), (125, 53846), (149, 53732), (151, 53726), (155, 53696), (167, 53636), (171, 53615), (180, 53561), (183, 53549), (186, 53531), (188, 53519), (207, 53414), (214, 53357), (218, 53321), (219, 53309), (225, 53282), (231, 53237), (241, 53180), (242, 53171), (243, 53168), (289, 52808), (292, 52775), (295, 52754), (303, 52661), (305, 52652), (309, 52589), (313, 52553), (314, 52550), (317, 52535), (326, 52457), (327, 52445), (329, 52424), (337, 52385), (351, 52295), (354, 52277), (355, 52271), (357, 52256), (361, 52232), (363, 52217), (364, 52214), (365, 52202), (369, 52178), (378, 52130), (381, 52106),

Gene: Telesworld_58 Start: 54144, Stop: 52285, Start Num: 105

Candidate Starts for Telesworld_58:

(Start: 97 @54168 has 5 MA's), (Start: 105 @54144 has 315 MA's), (Start: 116 @54120 has 6 MA's), (Start: 118 @54114 has 2 MA's), (123, 54072), (125, 54051), (149, 53937), (151, 53931), (155, 53901), (167, 53841), (171, 53820), (180, 53766), (183, 53754), (186, 53736), (188, 53724), (207, 53619), (214, 53562), (218, 53526), (219, 53514), (225, 53487), (231, 53442), (241, 53385), (242, 53376), (243, 53373), (289, 53013), (292, 52980), (295, 52959), (303, 52866), (305, 52857), (309, 52794), (313, 52758), (314, 52755), (317, 52740), (326, 52662), (327, 52650), (329, 52629), (337, 52590), (351, 52500), (354, 52482), (355, 52476), (357, 52461), (361, 52437), (363, 52422), (364, 52419), (365, 52407), (369, 52383), (378, 52335), (381, 52311),

Gene: Thonko_60 Start: 53153, Stop: 51336, Start Num: 108

Candidate Starts for Thonko_60:

(Start: 108 @53153 has 2 MA's), (Start: 118 @53135 has 2 MA's), (120, 53108), (145, 52991), (157, 52925), (207, 52664), (214, 52607), (218, 52571), (219, 52559), (226, 52523), (230, 52490), (241, 52430), (242, 52421), (243, 52418), (268, 52244), (282, 52127), (285, 52103), (290, 52058), (292, 52031), (295, 52010), (302, 51923), (303, 51917), (305, 51908), (309, 51845), (314, 51806), (316, 51800), (317, 51791), (326, 51713), (327, 51701), (329, 51680), (332, 51668), (337, 51641), (348, 51584), (351, 51551), (355, 51527), (361, 51488), (369, 51434), (381, 51362),

Gene: Thora_60 Start: 54321, Stop: 52462, Start Num: 105

Candidate Starts for Thora_60:

(Start: 97 @54345 has 5 MA's), (Start: 105 @54321 has 315 MA's), (Start: 116 @54297 has 6 MA's), (Start: 118 @54291 has 2 MA's), (123, 54249), (125, 54228), (149, 54114), (151, 54108), (155, 54078), (167, 54018), (171, 53997), (180, 53943), (183, 53931), (186, 53913), (188, 53901), (207, 53796), (214, 53739), (218, 53703), (219, 53691), (225, 53664), (229, 53637), (231, 53619), (233, 53601), (241, 53562), (242, 53553), (243, 53550), (275, 53292), (289, 53190), (292, 53157), (295, 53136), (303, 53043), (305, 53034), (309, 52971), (313, 52935), (314, 52932), (317, 52917), (326, 52839), (327, 52827), (329, 52806), (337, 52767), (351, 52677), (354, 52659), (355, 52653), (357, 52638), (361, 52614), (363, 52599), (364, 52596), (365, 52584), (369, 52560), (378, 52512), (381, 52488),

Gene: ThreeOh3D2_62 Start: 54542, Stop: 52683, Start Num: 105

Candidate Starts for ThreeOh3D2_62:

(Start: 97 @54566 has 5 MA's), (Start: 105 @54542 has 315 MA's), (Start: 116 @54518 has 6 MA's),
(Start: 118 @54512 has 2 MA's), (123, 54470), (125, 54449), (149, 54335), (151, 54329), (155, 54299),
(167, 54239), (171, 54218), (180, 54164), (183, 54152), (186, 54134), (188, 54122), (207, 54017),
(214, 53960), (218, 53924), (219, 53912), (225, 53885), (229, 53858), (231, 53840), (233, 53822),
(241, 53783), (242, 53774), (243, 53771), (244, 53768), (289, 53411), (292, 53378), (295, 53357),
(303, 53264), (305, 53255), (309, 53192), (313, 53156), (314, 53153), (317, 53138), (326, 53060),
(327, 53048), (329, 53027), (337, 52988), (351, 52898), (354, 52880), (355, 52874), (357, 52859),
(361, 52835), (363, 52820), (364, 52817), (365, 52805), (369, 52781), (378, 52733), (381, 52709),

Gene: Thunderbird_60 Start: 54275, Stop: 52416, Start Num: 105

Candidate Starts for Thunderbird_60:

(Start: 97 @54299 has 5 MA's), (Start: 105 @54275 has 315 MA's), (Start: 116 @54251 has 6 MA's),
(Start: 118 @54245 has 2 MA's), (123, 54203), (125, 54182), (149, 54068), (151, 54062), (155, 54032),
(167, 53972), (171, 53951), (180, 53897), (183, 53885), (186, 53867), (188, 53855), (207, 53750),
(214, 53693), (218, 53657), (219, 53645), (225, 53618), (231, 53573), (241, 53516), (242, 53507),
(243, 53504), (289, 53144), (292, 53111), (295, 53090), (303, 52997), (305, 52988), (309, 52925),
(313, 52889), (314, 52886), (317, 52871), (326, 52793), (327, 52781), (329, 52760), (337, 52721),
(351, 52631), (354, 52613), (355, 52607), (357, 52592), (361, 52568), (363, 52553), (364, 52550),
(365, 52538), (369, 52514), (378, 52466), (381, 52442), (382, 52427),

Gene: Timmi_59 Start: 54024, Stop: 52165, Start Num: 105

Candidate Starts for Timmi_59:

(Start: 97 @54048 has 5 MA's), (Start: 105 @54024 has 315 MA's), (Start: 116 @54000 has 6 MA's),
(Start: 118 @53994 has 2 MA's), (123, 53952), (125, 53931), (149, 53817), (151, 53811), (155, 53781),
(167, 53721), (171, 53700), (180, 53646), (183, 53634), (186, 53616), (188, 53604), (207, 53499),
(214, 53442), (218, 53406), (219, 53394), (225, 53367), (231, 53322), (241, 53265), (242, 53256),
(243, 53253), (289, 52893), (292, 52860), (295, 52839), (303, 52746), (305, 52737), (309, 52674),
(313, 52638), (314, 52635), (317, 52620), (326, 52542), (327, 52530), (329, 52509), (337, 52470),
(351, 52380), (354, 52362), (355, 52356), (357, 52341), (361, 52317), (363, 52302), (364, 52299),
(365, 52287), (369, 52263), (378, 52215), (381, 52191),

Gene: Tinciduntolum_58 Start: 52640, Stop: 50811, Start Num: 105

Candidate Starts for Tinciduntolum_58:

(Start: 105 @52640 has 315 MA's), (Start: 118 @52613 has 2 MA's), (121, 52583), (123, 52571), (127,
52544), (128, 52541), (132, 52532), (141, 52514), (157, 52418), (167, 52367), (172, 52343), (199,
52181), (204, 52166), (205, 52157), (207, 52145), (214, 52088), (218, 52052), (219, 52040), (224,
52016), (235, 51932), (242, 51902), (243, 51899), (248, 51869), (268, 51725), (274, 51659), (280,
51620), (282, 51608), (284, 51587), (287, 51569), (292, 51512), (297, 51455), (301, 51428), (303,
51398), (305, 51389), (309, 51323), (312, 51296), (313, 51287), (317, 51269), (320, 51245), (326,
51191), (327, 51179), (329, 51158), (342, 51089), (351, 51029), (354, 51011), (358, 50978), (361,
50966), (363, 50951), (364, 50948), (365, 50936), (369, 50912), (370, 50909), (378, 50861), (379,
50858), (381, 50837), (383, 50816),

Gene: TinyTerror_59 Start: 54114, Stop: 52294, Start Num: 116

Candidate Starts for TinyTerror_59:

(Start: 116 @54114 has 6 MA's), (120, 54081), (185, 53748), (187, 53736), (192, 53706), (194, 53700),
(207, 53637), (208, 53631), (214, 53580), (218, 53544), (226, 53496), (243, 53391), (257, 53295),
(265, 53244), (282, 53100), (287, 53061), (290, 53031), (292, 53004), (294, 52992), (302, 52896),
(303, 52890), (305, 52881), (306, 52869), (311, 52797), (313, 52767), (317, 52749), (318, 52740),
(326, 52671), (327, 52659), (329, 52638), (342, 52569), (345, 52554), (350, 52530), (351, 52509),

(354, 52491), (355, 52485), (360, 52452), (361, 52446), (364, 52428), (365, 52416), (367, 52404), (369, 52392), (376, 52350), (381, 52320),

Gene: TomBombadil_60 Start: 54309, Stop: 52450, Start Num: 105

Candidate Starts for TomBombadil_60:

(Start: 97 @54333 has 5 MA's), (Start: 105 @54309 has 315 MA's), (Start: 116 @54285 has 6 MA's), (Start: 118 @54279 has 2 MA's), (123, 54237), (125, 54216), (149, 54102), (151, 54096), (155, 54066), (167, 54006), (171, 53985), (180, 53931), (183, 53919), (186, 53901), (188, 53889), (207, 53784), (214, 53727), (218, 53691), (219, 53679), (225, 53652), (229, 53625), (231, 53607), (233, 53589), (241, 53550), (242, 53541), (243, 53538), (275, 53280), (289, 53178), (292, 53145), (295, 53124), (303, 53031), (305, 53022), (309, 52959), (313, 52923), (314, 52920), (317, 52905), (326, 52827), (327, 52815), (329, 52794), (337, 52755), (351, 52665), (354, 52647), (355, 52641), (357, 52626), (361, 52602), (363, 52587), (364, 52584), (365, 52572), (369, 52548), (378, 52500), (381, 52476),

Gene: Tomlarah_61 Start: 54878, Stop: 53019, Start Num: 105

Candidate Starts for Tomlarah_61:

(Start: 97 @54902 has 5 MA's), (Start: 105 @54878 has 315 MA's), (Start: 116 @54854 has 6 MA's), (Start: 118 @54848 has 2 MA's), (123, 54806), (125, 54785), (149, 54671), (151, 54665), (155, 54635), (167, 54575), (171, 54554), (180, 54500), (183, 54488), (186, 54470), (188, 54458), (207, 54353), (214, 54296), (218, 54260), (219, 54248), (225, 54221), (229, 54194), (231, 54176), (233, 54158), (241, 54119), (242, 54110), (243, 54107), (275, 53849), (289, 53747), (292, 53714), (295, 53693), (303, 53600), (305, 53591), (309, 53528), (313, 53492), (314, 53489), (317, 53474), (326, 53396), (327, 53384), (329, 53363), (337, 53324), (351, 53234), (354, 53216), (355, 53210), (357, 53195), (361, 53171), (363, 53156), (364, 53153), (365, 53141), (369, 53117), (378, 53069), (381, 53045),

Gene: Toni_60 Start: 54471, Stop: 52612, Start Num: 105

Candidate Starts for Toni_60:

(Start: 97 @54495 has 5 MA's), (Start: 105 @54471 has 315 MA's), (Start: 116 @54447 has 6 MA's), (Start: 118 @54441 has 2 MA's), (123, 54399), (125, 54378), (149, 54264), (151, 54258), (155, 54228), (167, 54168), (171, 54147), (180, 54093), (183, 54081), (186, 54063), (188, 54051), (207, 53946), (214, 53889), (218, 53853), (219, 53841), (225, 53814), (229, 53787), (231, 53769), (233, 53751), (241, 53712), (242, 53703), (243, 53700), (244, 53697), (289, 53340), (292, 53307), (295, 53286), (303, 53193), (305, 53184), (309, 53121), (313, 53085), (314, 53082), (317, 53067), (326, 52989), (327, 52977), (329, 52956), (337, 52917), (351, 52827), (354, 52809), (355, 52803), (357, 52788), (361, 52764), (363, 52749), (364, 52746), (365, 52734), (369, 52710), (378, 52662), (381, 52638),

Gene: TooFast2Furius_62 Start: 54290, Stop: 52431, Start Num: 105

Candidate Starts for TooFast2Furius_62:

(Start: 97 @54314 has 5 MA's), (Start: 105 @54290 has 315 MA's), (Start: 116 @54266 has 6 MA's), (Start: 118 @54260 has 2 MA's), (123, 54218), (125, 54197), (149, 54083), (151, 54077), (155, 54047), (167, 53987), (171, 53966), (180, 53912), (183, 53900), (186, 53882), (188, 53870), (207, 53765), (214, 53708), (218, 53672), (219, 53660), (225, 53633), (229, 53606), (231, 53588), (233, 53570), (241, 53531), (242, 53522), (243, 53519), (289, 53159), (292, 53126), (295, 53105), (303, 53012), (305, 53003), (309, 52940), (313, 52904), (314, 52901), (317, 52886), (326, 52808), (327, 52796), (329, 52775), (337, 52736), (351, 52646), (354, 52628), (355, 52622), (357, 52607), (361, 52583), (363, 52568), (364, 52565), (365, 52553), (369, 52529), (378, 52481), (381, 52457),

Gene: Tooj_59 Start: 53694, Stop: 51835, Start Num: 105

Candidate Starts for Tooj_59:

(Start: 97 @53718 has 5 MA's), (Start: 105 @53694 has 315 MA's), (Start: 116 @53670 has 6 MA's), (Start: 118 @53664 has 2 MA's), (123, 53622), (125, 53601), (149, 53487), (151, 53481), (155, 53451), (167, 53391), (171, 53370), (180, 53316), (183, 53304), (186, 53286), (188, 53274), (207, 53169), (214, 53112), (218, 53076), (219, 53064), (225, 53037), (226, 53028), (231, 52992), (241, 52935),

(242, 52926), (243, 52923), (244, 52920), (289, 52563), (292, 52530), (295, 52509), (303, 52416), (305, 52407), (309, 52344), (313, 52308), (314, 52305), (317, 52290), (326, 52212), (327, 52200), (329, 52179), (337, 52140), (351, 52050), (354, 52032), (355, 52026), (357, 52011), (361, 51987), (363, 51972), (364, 51969), (365, 51957), (369, 51933), (378, 51885), (381, 51861),

Gene: TraderJ_54 Start: 47973, Stop: 46156, Start Num: 115

Candidate Starts for TraderJ_54:

(Start: 115 @47973 has 14 MA's), (Start: 118 @47964 has 2 MA's), (120, 47937), (122, 47925), (125, 47901), (128, 47892), (164, 47718), (178, 47643), (191, 47568), (207, 47490), (214, 47433), (218, 47397), (219, 47385), (224, 47361), (238, 47268), (243, 47244), (246, 47226), (282, 46953), (287, 46914), (290, 46884), (292, 46857), (302, 46749), (303, 46743), (305, 46734), (312, 46644), (313, 46635), (314, 46632), (317, 46617), (326, 46539), (327, 46527), (328, 46521), (329, 46506), (339, 46458), (348, 46410), (351, 46377), (355, 46353), (361, 46314), (363, 46299), (369, 46254), (381, 46182),

Gene: Tres_57 Start: 52494, Stop: 50665, Start Num: 105

Candidate Starts for Tres_57:

(Start: 105 @52494 has 315 MA's), (Start: 118 @52467 has 2 MA's), (121, 52437), (123, 52425), (127, 52398), (128, 52395), (132, 52386), (141, 52368), (157, 52272), (167, 52221), (172, 52197), (199, 52035), (205, 52011), (207, 51999), (214, 51942), (218, 51906), (219, 51894), (224, 51870), (235, 51786), (242, 51756), (243, 51753), (248, 51723), (268, 51579), (274, 51513), (280, 51474), (282, 51462), (284, 51441), (287, 51423), (292, 51366), (297, 51309), (301, 51282), (303, 51252), (305, 51243), (309, 51177), (312, 51150), (313, 51141), (317, 51123), (320, 51099), (326, 51045), (327, 51033), (329, 51012), (342, 50943), (351, 50883), (354, 50865), (358, 50832), (361, 50820), (363, 50805), (364, 50802), (365, 50790), (369, 50766), (370, 50763), (378, 50715), (379, 50712), (381, 50691), (383, 50670),

Gene: Triad_62 Start: 53479, Stop: 51620, Start Num: 105

Candidate Starts for Triad_62:

(26, 53875), (43, 53788), (47, 53773), (50, 53767), (53, 53752), (57, 53734), (Start: 97 @53503 has 5 MA's), (Start: 105 @53479 has 315 MA's), (Start: 116 @53455 has 6 MA's), (Start: 118 @53449 has 2 MA's), (123, 53407), (125, 53386), (149, 53272), (151, 53266), (155, 53236), (167, 53176), (171, 53155), (180, 53101), (183, 53089), (188, 53059), (207, 52954), (214, 52897), (218, 52861), (219, 52849), (225, 52822), (226, 52813), (231, 52777), (233, 52759), (241, 52720), (242, 52711), (243, 52708), (289, 52348), (292, 52315), (295, 52294), (303, 52201), (305, 52192), (309, 52129), (313, 52093), (314, 52090), (317, 52075), (326, 51997), (327, 51985), (329, 51964), (337, 51925), (351, 51835), (354, 51817), (355, 51811), (357, 51796), (361, 51772), (363, 51757), (364, 51754), (365, 51742), (369, 51718), (378, 51670), (381, 51646),

Gene: Trine_42 Start: 34854, Stop: 32935, Start Num: 87

Candidate Starts for Trine_42:

(Start: 87 @34854 has 1 MA's), (100, 34812), (109, 34788), (Start: 116 @34758 has 6 MA's), (121, 34722), (123, 34710), (128, 34680), (156, 34560), (168, 34500), (175, 34455), (180, 34428), (188, 34389), (190, 34377), (200, 34326), (207, 34293), (211, 34260), (213, 34242), (218, 34203), (232, 34107), (236, 34080), (241, 34062), (243, 34050), (248, 34020), (272, 33816), (282, 33747), (286, 33717), (287, 33708), (289, 33684), (292, 33651), (301, 33570), (303, 33540), (310, 33450), (313, 33429), (314, 33426), (317, 33411), (320, 33387), (326, 33333), (327, 33321), (338, 33258), (346, 33204), (348, 33186), (364, 33072), (369, 33036), (378, 32985), (381, 32961), (383, 32940),

Gene: True_59 Start: 54034, Stop: 52175, Start Num: 105

Candidate Starts for True_59:

(Start: 97 @54058 has 5 MA's), (Start: 105 @54034 has 315 MA's), (Start: 116 @54010 has 6 MA's), (Start: 118 @54004 has 2 MA's), (123, 53962), (125, 53941), (149, 53827), (151, 53821), (155, 53791),

(167, 53731), (171, 53710), (180, 53656), (183, 53644), (186, 53626), (188, 53614), (207, 53509), (214, 53452), (218, 53416), (219, 53404), (224, 53380), (226, 53368), (229, 53350), (231, 53332), (233, 53314), (241, 53275), (242, 53266), (243, 53263), (244, 53260), (289, 52903), (292, 52870), (295, 52849), (303, 52756), (305, 52747), (309, 52684), (313, 52648), (314, 52645), (317, 52630), (326, 52552), (327, 52540), (329, 52519), (337, 52480), (351, 52390), (354, 52372), (355, 52366), (357, 52351), (361, 52327), (363, 52312), (364, 52309), (365, 52297), (369, 52273), (378, 52225), (381, 52201),

Gene: Trypo_63 Start: 54706, Stop: 52847, Start Num: 105

Candidate Starts for Trypo_63:

(Start: 97 @54730 has 5 MA's), (Start: 105 @54706 has 315 MA's), (Start: 116 @54682 has 6 MA's), (Start: 118 @54676 has 2 MA's), (123, 54634), (125, 54613), (149, 54499), (151, 54493), (155, 54463), (167, 54403), (171, 54382), (180, 54328), (183, 54316), (186, 54298), (188, 54286), (207, 54181), (214, 54124), (218, 54088), (219, 54076), (224, 54052), (226, 54040), (229, 54022), (231, 54004), (233, 53986), (241, 53947), (242, 53938), (243, 53935), (244, 53932), (275, 53677), (289, 53575), (292, 53542), (295, 53521), (303, 53428), (305, 53419), (309, 53356), (313, 53320), (314, 53317), (317, 53302), (326, 53224), (327, 53212), (329, 53191), (337, 53152), (351, 53062), (354, 53044), (355, 53038), (357, 53023), (361, 52999), (363, 52984), (364, 52981), (365, 52969), (369, 52945), (372, 52924), (378, 52897), (381, 52873),

Gene: Tydolla_56 Start: 53884, Stop: 52067, Start Num: 117

Candidate Starts for Tydolla_56:

(34, 54268), (75, 54067), (Start: 117 @53884 has 46 MA's), (120, 53854), (159, 53674), (185, 53521), (187, 53509), (192, 53479), (194, 53473), (207, 53410), (208, 53404), (214, 53353), (217, 53326), (218, 53317), (226, 53269), (243, 53164), (257, 53068), (265, 53017), (282, 52873), (287, 52834), (290, 52804), (292, 52777), (294, 52765), (302, 52669), (303, 52663), (305, 52654), (306, 52642), (311, 52570), (313, 52540), (317, 52522), (318, 52513), (326, 52444), (327, 52432), (329, 52411), (342, 52342), (345, 52327), (350, 52303), (351, 52282), (354, 52264), (355, 52258), (360, 52225), (361, 52219), (364, 52201), (365, 52189), (367, 52177), (369, 52165), (376, 52123), (381, 52093),

Gene: TyrionL_61 Start: 54131, Stop: 52272, Start Num: 105

Candidate Starts for TyrionL_61:

(Start: 97 @54155 has 5 MA's), (Start: 105 @54131 has 315 MA's), (Start: 116 @54107 has 6 MA's), (Start: 118 @54101 has 2 MA's), (123, 54059), (125, 54038), (149, 53924), (151, 53918), (155, 53888), (167, 53828), (171, 53807), (180, 53753), (183, 53741), (186, 53723), (188, 53711), (207, 53606), (214, 53549), (218, 53513), (219, 53501), (224, 53477), (226, 53465), (229, 53447), (231, 53429), (233, 53411), (241, 53372), (242, 53363), (243, 53360), (244, 53357), (275, 53102), (289, 53000), (292, 52967), (295, 52946), (303, 52853), (305, 52844), (309, 52781), (313, 52745), (314, 52742), (317, 52727), (326, 52649), (327, 52637), (329, 52616), (337, 52577), (351, 52487), (354, 52469), (355, 52463), (357, 52448), (361, 52424), (363, 52409), (364, 52406), (365, 52394), (369, 52370), (372, 52349), (378, 52322), (381, 52298), (382, 52283),

Gene: UACh1_60 Start: 54265, Stop: 52406, Start Num: 105

Candidate Starts for UACh1_60:

(Start: 97 @54289 has 5 MA's), (Start: 105 @54265 has 315 MA's), (Start: 116 @54241 has 6 MA's), (Start: 118 @54235 has 2 MA's), (123, 54193), (125, 54172), (149, 54058), (151, 54052), (155, 54022), (167, 53962), (171, 53941), (180, 53887), (183, 53875), (186, 53857), (188, 53845), (207, 53740), (214, 53683), (218, 53647), (219, 53635), (224, 53611), (226, 53599), (229, 53581), (231, 53563), (233, 53545), (241, 53506), (242, 53497), (243, 53494), (244, 53491), (289, 53134), (292, 53101), (295, 53080), (303, 52987), (305, 52978), (309, 52915), (313, 52879), (314, 52876), (317, 52861), (326, 52783), (327, 52771), (329, 52750), (337, 52711), (351, 52621), (354, 52603), (355, 52597), (357, 52582), (361, 52558), (363, 52543), (364, 52540), (365, 52528), (369, 52504), (378, 52456), (381, 52432),

Gene: UncleHowie_59 Start: 53736, Stop: 51877, Start Num: 105

Candidate Starts for UncleHowie_59:

(Start: 97 @53760 has 5 MA's), (Start: 105 @53736 has 315 MA's), (Start: 116 @53712 has 6 MA's),
(Start: 118 @53706 has 2 MA's), (123, 53664), (125, 53643), (149, 53529), (151, 53523), (155, 53493),
(167, 53433), (171, 53412), (180, 53358), (183, 53346), (186, 53328), (188, 53316), (207, 53211),
(214, 53154), (218, 53118), (219, 53106), (225, 53079), (229, 53052), (231, 53034), (233, 53016),
(241, 52977), (242, 52968), (243, 52965), (244, 52962), (289, 52605), (292, 52572), (295, 52551),
(303, 52458), (305, 52449), (309, 52386), (313, 52350), (314, 52347), (317, 52332), (326, 52254),
(327, 52242), (329, 52221), (337, 52182), (351, 52092), (354, 52074), (355, 52068), (357, 52053),
(361, 52029), (363, 52014), (364, 52011), (365, 51999), (369, 51975), (378, 51927), (381, 51903),

Gene: Upyo_46 Start: 36456, Stop: 34090, Start Num: 13

Candidate Starts for Upyo_46:

(1, 36705), (4, 36570), (6, 36546), (7, 36540), (8, 36528), (11, 36480), (Start: 13 @36456 has 1 MA's),
(20, 36330), (29, 36273), (37, 36219), (49, 36183), (66, 36114), (69, 36108), (85, 36009), (143, 35775),
(148, 35748), (169, 35640), (180, 35574), (184, 35559), (190, 35523), (207, 35439), (209, 35430),
(214, 35382), (218, 35346), (219, 35334), (229, 35280), (232, 35250), (234, 35232), (236, 35223),
(243, 35193), (254, 35115), (265, 35043), (286, 34869), (287, 34860), (289, 34836), (292, 34803),
(298, 34746), (301, 34722), (303, 34692), (306, 34671), (312, 34593), (317, 34566), (324, 34503),
(326, 34488), (327, 34476), (329, 34455), (347, 34356), (351, 34308), (353, 34293), (355, 34284),
(363, 34230), (364, 34227), (369, 34191), (378, 34140), (381, 34116),

Gene: Usavi_60 Start: 54404, Stop: 52545, Start Num: 105

Candidate Starts for Usavi_60:

(Start: 97 @54428 has 5 MA's), (Start: 105 @54404 has 315 MA's), (Start: 116 @54380 has 6 MA's),
(Start: 118 @54374 has 2 MA's), (123, 54332), (125, 54311), (149, 54197), (151, 54191), (155, 54161),
(167, 54101), (171, 54080), (180, 54026), (183, 54014), (186, 53996), (188, 53984), (207, 53879),
(214, 53822), (218, 53786), (219, 53774), (225, 53747), (229, 53720), (231, 53702), (233, 53684),
(241, 53645), (242, 53636), (243, 53633), (275, 53375), (289, 53273), (292, 53240), (295, 53219),
(303, 53126), (305, 53117), (309, 53054), (313, 53018), (314, 53015), (317, 53000), (326, 52922),
(327, 52910), (329, 52889), (337, 52850), (351, 52760), (354, 52742), (355, 52736), (357, 52721),
(361, 52697), (363, 52682), (364, 52679), (365, 52667), (369, 52643), (378, 52595), (381, 52571),

Gene: Vaishali24_59 Start: 53939, Stop: 52080, Start Num: 105

Candidate Starts for Vaishali24_59:

(26, 54335), (43, 54248), (47, 54233), (50, 54227), (53, 54212), (57, 54194), (Start: 97 @53963 has 5 MA's),
(Start: 105 @53939 has 315 MA's), (Start: 116 @53915 has 6 MA's), (Start: 118 @53909 has 2 MA's),
(123, 53867), (125, 53846), (149, 53732), (151, 53726), (155, 53696), (167, 53636), (171, 53615),
(180, 53561), (183, 53549), (188, 53519), (207, 53414), (214, 53357), (218, 53321), (219, 53309),
(225, 53282), (226, 53273), (231, 53237), (233, 53219), (241, 53180), (242, 53171), (243, 53168),
(289, 52808), (292, 52775), (295, 52754), (303, 52661), (305, 52652), (309, 52589), (313, 52553),
(314, 52550), (317, 52535), (326, 52457), (327, 52445), (329, 52424), (337, 52385), (351, 52295),
(354, 52277), (355, 52271), (357, 52256), (361, 52232), (363, 52217), (364, 52214), (365, 52202),
(369, 52178), (378, 52130), (381, 52106),

Gene: Valjean_60 Start: 54261, Stop: 52402, Start Num: 105

Candidate Starts for Valjean_60:

(Start: 97 @54285 has 5 MA's), (Start: 105 @54261 has 315 MA's), (Start: 116 @54237 has 6 MA's),
(Start: 118 @54231 has 2 MA's), (123, 54189), (125, 54168), (149, 54054), (151, 54048), (155, 54018),
(167, 53958), (171, 53937), (180, 53883), (183, 53871), (186, 53853), (188, 53841), (207, 53736),
(214, 53679), (218, 53643), (219, 53631), (224, 53607), (226, 53595), (229, 53577), (231, 53559),
(233, 53541), (241, 53502), (242, 53493), (243, 53490), (244, 53487), (289, 53130), (292, 53097),

(295, 53076), (303, 52983), (305, 52974), (309, 52911), (313, 52875), (314, 52872), (317, 52857), (326, 52779), (327, 52767), (329, 52746), (337, 52707), (351, 52617), (354, 52599), (355, 52593), (357, 52578), (361, 52554), (363, 52539), (364, 52536), (365, 52524), (369, 52500), (378, 52452), (381, 52428),

Gene: Vaticameos_57 Start: 52569, Stop: 50710, Start Num: 105

Candidate Starts for Vaticameos_57:

(Start: 97 @52593 has 5 MA's), (Start: 105 @52569 has 315 MA's), (Start: 116 @52545 has 6 MA's), (Start: 118 @52539 has 2 MA's), (123, 52497), (125, 52476), (149, 52362), (151, 52356), (155, 52326), (167, 52266), (171, 52245), (180, 52191), (183, 52179), (186, 52161), (188, 52149), (207, 52044), (214, 51987), (218, 51951), (219, 51939), (225, 51912), (229, 51885), (231, 51867), (233, 51849), (241, 51810), (242, 51801), (243, 51798), (275, 51540), (289, 51438), (292, 51405), (295, 51384), (303, 51291), (305, 51282), (309, 51219), (313, 51183), (314, 51180), (317, 51165), (326, 51087), (327, 51075), (329, 51054), (337, 51015), (351, 50925), (354, 50907), (355, 50901), (357, 50886), (361, 50862), (363, 50847), (364, 50844), (365, 50832), (369, 50808), (378, 50760), (381, 50736),

Gene: Veritas_62 Start: 54399, Stop: 52540, Start Num: 105

Candidate Starts for Veritas_62:

(Start: 97 @54423 has 5 MA's), (Start: 105 @54399 has 315 MA's), (Start: 116 @54375 has 6 MA's), (Start: 118 @54369 has 2 MA's), (123, 54327), (125, 54306), (149, 54192), (151, 54186), (155, 54156), (167, 54096), (171, 54075), (180, 54021), (183, 54009), (186, 53991), (188, 53979), (207, 53874), (214, 53817), (218, 53781), (219, 53769), (225, 53742), (231, 53697), (241, 53640), (242, 53631), (243, 53628), (289, 53268), (292, 53235), (295, 53214), (303, 53121), (305, 53112), (309, 53049), (313, 53013), (314, 53010), (317, 52995), (326, 52917), (327, 52905), (329, 52884), (337, 52845), (351, 52755), (354, 52737), (355, 52731), (357, 52716), (361, 52692), (363, 52677), (364, 52674), (365, 52662), (369, 52638), (378, 52590), (381, 52566), (382, 52551),

Gene: Vic9_00057 Start: 53336, Stop: 51507, Start Num: 105

Candidate Starts for Vic9_00057:

(Start: 105 @53336 has 315 MA's), (Start: 118 @53309 has 2 MA's), (121, 53279), (123, 53267), (127, 53240), (128, 53237), (132, 53228), (141, 53210), (157, 53114), (167, 53063), (172, 53039), (199, 52877), (204, 52862), (205, 52853), (207, 52841), (214, 52784), (218, 52748), (219, 52736), (224, 52712), (234, 52634), (235, 52628), (238, 52619), (242, 52598), (243, 52595), (248, 52565), (268, 52421), (274, 52355), (282, 52304), (284, 52283), (287, 52265), (292, 52208), (297, 52151), (301, 52124), (303, 52094), (305, 52085), (309, 52019), (312, 51992), (313, 51983), (317, 51965), (320, 51941), (326, 51887), (327, 51875), (329, 51854), (342, 51785), (351, 51725), (354, 51707), (358, 51674), (361, 51662), (363, 51647), (364, 51644), (365, 51632), (369, 51608), (370, 51605), (378, 51557), (379, 51554), (381, 51533), (383, 51512),

Gene: Vincenzo_56 Start: 55146, Stop: 53320, Start Num: 101

Candidate Starts for Vincenzo_56:

(Start: 101 @55146 has 17 MA's), (Start: 115 @55128 has 14 MA's), (123, 55077), (125, 55056), (155, 54918), (166, 54864), (175, 54810), (186, 54756), (191, 54726), (193, 54714), (194, 54711), (214, 54591), (218, 54555), (219, 54543), (225, 54516), (241, 54414), (243, 54402), (249, 54366), (252, 54336), (258, 54303), (265, 54255), (290, 54042), (292, 54015), (302, 53907), (303, 53901), (305, 53892), (306, 53880), (309, 53829), (312, 53802), (313, 53793), (314, 53790), (315, 53787), (317, 53775), (326, 53697), (327, 53685), (329, 53664), (331, 53655), (333, 53646), (351, 53535), (354, 53517), (355, 53511), (361, 53472), (363, 53457), (365, 53442), (367, 53430), (369, 53418), (378, 53370), (381, 53346),

Gene: VioletZ_55 Start: 54089, Stop: 52266, Start Num: 101

Candidate Starts for VioletZ_55:

(Start: 97 @54107 has 5 MA's), (Start: 101 @54089 has 17 MA's), (Start: 118 @54065 has 2 MA's), (120, 54038), (123, 54023), (125, 54002), (146, 53915), (166, 53810), (171, 53783), (173, 53768), (186, 53702), (191, 53672), (192, 53663), (193, 53660), (194, 53657), (199, 53630), (214, 53537), (216, 53519), (218, 53501), (219, 53489), (225, 53462), (233, 53399), (242, 53351), (243, 53348), (248, 53318), (252, 53282), (282, 53057), (283, 53054), (287, 53018), (289, 52994), (292, 52961), (302, 52853), (303, 52847), (305, 52838), (313, 52739), (314, 52736), (317, 52721), (326, 52643), (327, 52631), (329, 52610), (331, 52601), (337, 52571), (342, 52541), (348, 52514), (351, 52481), (355, 52457), (361, 52418), (364, 52400), (365, 52388), (369, 52364), (376, 52322), (378, 52316), (381, 52292),

Gene: Virapocalypse_61 Start: 54360, Stop: 52501, Start Num: 105

Candidate Starts for Virapocalypse_61:

(Start: 97 @54384 has 5 MA's), (Start: 105 @54360 has 315 MA's), (Start: 116 @54336 has 6 MA's), (Start: 118 @54330 has 2 MA's), (123, 54288), (125, 54267), (149, 54153), (151, 54147), (155, 54117), (167, 54057), (171, 54036), (180, 53982), (183, 53970), (186, 53952), (188, 53940), (207, 53835), (214, 53778), (218, 53742), (219, 53730), (224, 53706), (226, 53694), (229, 53676), (231, 53658), (233, 53640), (241, 53601), (242, 53592), (243, 53589), (244, 53586), (289, 53229), (292, 53196), (295, 53175), (303, 53082), (305, 53073), (309, 53010), (313, 52974), (314, 52971), (317, 52956), (326, 52878), (327, 52866), (329, 52845), (337, 52806), (351, 52716), (354, 52698), (355, 52692), (357, 52677), (361, 52653), (363, 52638), (364, 52635), (365, 52623), (369, 52599), (378, 52551), (381, 52527),

Gene: Virgeve_60 Start: 53997, Stop: 52138, Start Num: 105

Candidate Starts for Virgeve_60:

(Start: 97 @54021 has 5 MA's), (Start: 105 @53997 has 315 MA's), (Start: 116 @53973 has 6 MA's), (Start: 118 @53967 has 2 MA's), (123, 53925), (125, 53904), (149, 53790), (151, 53784), (155, 53754), (167, 53694), (171, 53673), (180, 53619), (183, 53607), (186, 53589), (188, 53577), (207, 53472), (214, 53415), (218, 53379), (219, 53367), (224, 53343), (226, 53331), (229, 53313), (231, 53295), (233, 53277), (241, 53238), (242, 53229), (243, 53226), (244, 53223), (289, 52866), (292, 52833), (295, 52812), (303, 52719), (305, 52710), (309, 52647), (313, 52611), (314, 52608), (317, 52593), (326, 52515), (327, 52503), (329, 52482), (337, 52443), (351, 52353), (354, 52335), (355, 52329), (357, 52314), (361, 52290), (363, 52275), (364, 52272), (365, 52260), (369, 52236), (378, 52188), (381, 52164),

Gene: Vista_60 Start: 54037, Stop: 52178, Start Num: 105

Candidate Starts for Vista_60:

(Start: 97 @54061 has 5 MA's), (Start: 105 @54037 has 315 MA's), (Start: 116 @54013 has 6 MA's), (Start: 118 @54007 has 2 MA's), (123, 53965), (125, 53944), (149, 53830), (151, 53824), (155, 53794), (167, 53734), (171, 53713), (180, 53659), (183, 53647), (186, 53629), (188, 53617), (207, 53512), (214, 53455), (218, 53419), (219, 53407), (225, 53380), (229, 53353), (231, 53335), (233, 53317), (241, 53278), (242, 53269), (243, 53266), (289, 52906), (292, 52873), (295, 52852), (303, 52759), (305, 52750), (309, 52687), (313, 52651), (314, 52648), (317, 52633), (326, 52555), (327, 52543), (329, 52522), (337, 52483), (351, 52393), (354, 52375), (355, 52369), (357, 52354), (361, 52330), (363, 52315), (364, 52312), (365, 52300), (369, 52276), (378, 52228), (381, 52204),

Gene: Vivaldi_62 Start: 54495, Stop: 52636, Start Num: 105

Candidate Starts for Vivaldi_62:

(Start: 97 @54519 has 5 MA's), (Start: 105 @54495 has 315 MA's), (Start: 116 @54471 has 6 MA's), (Start: 118 @54465 has 2 MA's), (123, 54423), (125, 54402), (149, 54288), (151, 54282), (155, 54252), (167, 54192), (171, 54171), (180, 54117), (183, 54105), (186, 54087), (188, 54075), (207, 53970), (214, 53913), (218, 53877), (219, 53865), (224, 53841), (226, 53829), (229, 53811), (231, 53793), (233, 53775), (241, 53736), (242, 53727), (243, 53724), (244, 53721), (289, 53364), (292, 53331), (295, 53310), (303, 53217), (305, 53208), (309, 53145), (313, 53109), (314, 53106), (317, 53091),

(326, 53013), (327, 53001), (329, 52980), (337, 52941), (351, 52851), (354, 52833), (355, 52827), (357, 52812), (361, 52788), (363, 52773), (364, 52770), (365, 52758), (369, 52734), (378, 52686), (381, 52662),

Gene: Vortex_60 Start: 54019, Stop: 52160, Start Num: 105

Candidate Starts for Vortex_60:

(Start: 97 @54043 has 5 MA's), (Start: 105 @54019 has 315 MA's), (Start: 116 @53995 has 6 MA's), (Start: 118 @53989 has 2 MA's), (123, 53947), (125, 53926), (149, 53812), (151, 53806), (155, 53776), (167, 53716), (171, 53695), (180, 53641), (183, 53629), (186, 53611), (188, 53599), (207, 53494), (214, 53437), (218, 53401), (219, 53389), (225, 53362), (231, 53317), (241, 53260), (242, 53251), (243, 53248), (289, 52888), (292, 52855), (295, 52834), (303, 52741), (305, 52732), (309, 52669), (313, 52633), (314, 52630), (317, 52615), (326, 52537), (327, 52525), (329, 52504), (337, 52465), (351, 52375), (354, 52357), (355, 52351), (357, 52336), (361, 52312), (363, 52297), (364, 52294), (365, 52282), (369, 52258), (378, 52210), (381, 52186),

Gene: Waleliano_53 Start: 54042, Stop: 52219, Start Num: 101

Candidate Starts for Waleliano_53:

(Start: 97 @54060 has 5 MA's), (Start: 101 @54042 has 17 MA's), (Start: 118 @54018 has 2 MA's), (120, 53991), (123, 53976), (125, 53955), (146, 53868), (166, 53763), (171, 53736), (173, 53721), (186, 53655), (191, 53625), (192, 53616), (193, 53613), (194, 53610), (199, 53583), (214, 53490), (216, 53472), (218, 53454), (219, 53442), (225, 53415), (233, 53352), (241, 53313), (242, 53304), (243, 53301), (248, 53271), (252, 53235), (282, 53010), (283, 53007), (287, 52971), (289, 52947), (292, 52914), (302, 52806), (303, 52800), (305, 52791), (313, 52692), (314, 52689), (317, 52674), (326, 52596), (327, 52584), (329, 52563), (331, 52554), (337, 52524), (348, 52467), (351, 52434), (355, 52410), (361, 52371), (364, 52353), (365, 52341), (369, 52317), (376, 52275), (378, 52269), (381, 52245),

Gene: Wallhey_61 Start: 54135, Stop: 52276, Start Num: 105

Candidate Starts for Wallhey_61:

(Start: 97 @54159 has 5 MA's), (Start: 105 @54135 has 315 MA's), (Start: 116 @54111 has 6 MA's), (Start: 118 @54105 has 2 MA's), (123, 54063), (125, 54042), (149, 53928), (151, 53922), (155, 53892), (167, 53832), (171, 53811), (180, 53757), (183, 53745), (186, 53727), (188, 53715), (207, 53610), (214, 53553), (218, 53517), (219, 53505), (225, 53478), (231, 53433), (241, 53376), (242, 53367), (243, 53364), (275, 53106), (289, 53004), (292, 52971), (295, 52950), (303, 52857), (305, 52848), (309, 52785), (313, 52749), (314, 52746), (317, 52731), (326, 52653), (327, 52641), (329, 52620), (337, 52581), (351, 52491), (354, 52473), (355, 52467), (357, 52452), (361, 52428), (363, 52413), (364, 52410), (365, 52398), (369, 52374), (372, 52353), (378, 52326), (381, 52302), (382, 52287),

Gene: Waterdiva_60 Start: 54398, Stop: 52539, Start Num: 105

Candidate Starts for Waterdiva_60:

(Start: 97 @54422 has 5 MA's), (Start: 105 @54398 has 315 MA's), (Start: 116 @54374 has 6 MA's), (Start: 118 @54368 has 2 MA's), (123, 54326), (125, 54305), (149, 54191), (151, 54185), (155, 54155), (167, 54095), (171, 54074), (180, 54020), (183, 54008), (186, 53990), (188, 53978), (207, 53873), (214, 53816), (218, 53780), (219, 53768), (225, 53741), (229, 53714), (231, 53696), (233, 53678), (241, 53639), (242, 53630), (243, 53627), (275, 53369), (289, 53267), (292, 53234), (295, 53213), (303, 53120), (305, 53111), (309, 53048), (313, 53012), (314, 53009), (317, 52994), (326, 52916), (327, 52904), (329, 52883), (337, 52844), (351, 52754), (354, 52736), (355, 52730), (357, 52715), (361, 52691), (363, 52676), (364, 52673), (365, 52661), (369, 52637), (378, 52589), (381, 52565),

Gene: Weher20_60 Start: 54841, Stop: 52982, Start Num: 105

Candidate Starts for Weher20_60:

(Start: 97 @54865 has 5 MA's), (Start: 105 @54841 has 315 MA's), (Start: 116 @54817 has 6 MA's), (Start: 118 @54811 has 2 MA's), (123, 54769), (125, 54748), (149, 54634), (151, 54628), (155, 54598),

(167, 54538), (171, 54517), (180, 54463), (183, 54451), (186, 54433), (188, 54421), (207, 54316), (214, 54259), (218, 54223), (219, 54211), (224, 54187), (226, 54175), (229, 54157), (231, 54139), (233, 54121), (241, 54082), (242, 54073), (243, 54070), (244, 54067), (289, 53710), (292, 53677), (295, 53656), (303, 53563), (305, 53554), (309, 53491), (313, 53455), (314, 53452), (317, 53437), (326, 53359), (327, 53347), (329, 53326), (337, 53287), (351, 53197), (354, 53179), (355, 53173), (357, 53158), (361, 53134), (363, 53119), (364, 53116), (365, 53104), (369, 53080), (378, 53032), (381, 53008),

Gene: West99_57 Start: 52637, Stop: 50808, Start Num: 105

Candidate Starts for West99_57:

(Start: 105 @52637 has 315 MA's), (Start: 118 @52610 has 2 MA's), (121, 52580), (123, 52568), (127, 52541), (128, 52538), (132, 52529), (141, 52511), (157, 52415), (167, 52364), (172, 52340), (199, 52178), (204, 52163), (205, 52154), (207, 52142), (214, 52085), (218, 52049), (219, 52037), (224, 52013), (235, 51929), (242, 51899), (243, 51896), (248, 51866), (268, 51722), (274, 51656), (280, 51617), (282, 51605), (284, 51584), (287, 51566), (292, 51509), (301, 51425), (303, 51395), (305, 51386), (309, 51320), (312, 51293), (313, 51284), (317, 51266), (320, 51242), (326, 51188), (327, 51176), (329, 51155), (342, 51086), (351, 51026), (354, 51008), (358, 50975), (361, 50963), (363, 50948), (364, 50945), (365, 50933), (369, 50909), (370, 50906), (378, 50858), (379, 50855), (381, 50834), (383, 50813),

Gene: Widow_43 Start: 35284, Stop: 32969, Start Num: 9

Candidate Starts for Widow_43:

(Start: 9 @35284 has 5 MA's), (10, 35275), (18, 35179), (23, 35149), (30, 35083), (78, 34924), (Start: 87 @34894 has 1 MA's), (90, 34882), (109, 34828), (113, 34807), (133, 34708), (141, 34687), (147, 34642), (156, 34594), (190, 34411), (204, 34348), (207, 34327), (209, 34318), (218, 34237), (219, 34225), (229, 34171), (232, 34141), (236, 34114), (242, 34087), (243, 34084), (244, 34081), (265, 33934), (272, 33850), (279, 33799), (284, 33760), (286, 33751), (287, 33742), (292, 33685), (301, 33604), (303, 33574), (310, 33484), (312, 33472), (317, 33445), (326, 33367), (327, 33355), (331, 33325), (347, 33235), (348, 33220), (351, 33187), (363, 33109), (364, 33106), (367, 33082), (369, 33070), (378, 33019), (381, 32995),

Gene: Windsor_60 Start: 54584, Stop: 52725, Start Num: 105

Candidate Starts for Windsor_60:

(Start: 97 @54608 has 5 MA's), (Start: 105 @54584 has 315 MA's), (Start: 116 @54560 has 6 MA's), (Start: 118 @54554 has 2 MA's), (123, 54512), (125, 54491), (149, 54377), (151, 54371), (155, 54341), (167, 54281), (171, 54260), (180, 54206), (183, 54194), (186, 54176), (188, 54164), (207, 54059), (214, 54002), (218, 53966), (219, 53954), (224, 53930), (226, 53918), (229, 53900), (231, 53882), (233, 53864), (241, 53825), (242, 53816), (243, 53813), (244, 53810), (289, 53453), (292, 53420), (295, 53399), (303, 53306), (305, 53297), (309, 53234), (313, 53198), (314, 53195), (317, 53180), (326, 53102), (327, 53090), (329, 53069), (337, 53030), (351, 52940), (354, 52922), (355, 52916), (357, 52901), (361, 52877), (363, 52862), (364, 52859), (365, 52847), (369, 52823), (378, 52775), (381, 52751),

Gene: Wooper_54 Start: 47982, Stop: 46165, Start Num: 115

Candidate Starts for Wooper_54:

(Start: 115 @47982 has 14 MA's), (Start: 118 @47973 has 2 MA's), (120, 47946), (122, 47934), (125, 47910), (128, 47901), (164, 47727), (178, 47652), (191, 47577), (207, 47499), (214, 47442), (218, 47406), (219, 47394), (224, 47370), (238, 47277), (243, 47253), (246, 47235), (282, 46962), (287, 46923), (290, 46893), (292, 46866), (302, 46758), (303, 46752), (305, 46743), (312, 46653), (313, 46644), (314, 46641), (317, 46626), (326, 46548), (327, 46536), (328, 46530), (329, 46515), (339, 46467), (348, 46419), (351, 46386), (355, 46362), (361, 46323), (363, 46308), (369, 46263), (381, 46191),

Gene: Xavier_59 Start: 54026, Stop: 52167, Start Num: 105

Candidate Starts for Xavier_59:

(Start: 97 @54050 has 5 MA's), (Start: 105 @54026 has 315 MA's), (Start: 116 @54002 has 6 MA's), (Start: 118 @53996 has 2 MA's), (123, 53954), (125, 53933), (149, 53819), (151, 53813), (155, 53783), (167, 53723), (171, 53702), (180, 53648), (183, 53636), (186, 53618), (188, 53606), (207, 53501), (214, 53444), (218, 53408), (219, 53396), (225, 53369), (231, 53324), (241, 53267), (242, 53258), (243, 53255), (289, 52895), (292, 52862), (295, 52841), (303, 52748), (305, 52739), (309, 52676), (313, 52640), (314, 52637), (317, 52622), (326, 52544), (327, 52532), (329, 52511), (337, 52472), (351, 52382), (354, 52364), (355, 52358), (357, 52343), (361, 52319), (363, 52304), (364, 52301), (365, 52289), (369, 52265), (378, 52217), (381, 52193),

Gene: Xincheng_54 Start: 55076, Stop: 53253, Start Num: 101

Candidate Starts for Xincheng_54:

(Start: 97 @55094 has 5 MA's), (Start: 101 @55076 has 17 MA's), (Start: 118 @55052 has 2 MA's), (120, 55025), (123, 55010), (125, 54989), (146, 54902), (149, 54884), (166, 54797), (171, 54770), (173, 54755), (186, 54689), (191, 54659), (192, 54650), (193, 54647), (194, 54644), (199, 54617), (214, 54524), (216, 54506), (218, 54488), (219, 54476), (225, 54449), (233, 54386), (241, 54347), (242, 54338), (243, 54335), (248, 54305), (252, 54269), (282, 54044), (283, 54041), (287, 54005), (289, 53981), (292, 53948), (302, 53840), (303, 53834), (305, 53825), (313, 53726), (314, 53723), (317, 53708), (326, 53630), (327, 53618), (329, 53597), (331, 53588), (337, 53558), (342, 53528), (348, 53501), (351, 53468), (354, 53450), (355, 53444), (361, 53405), (364, 53387), (365, 53375), (369, 53351), (376, 53309), (378, 53303), (381, 53279),

Gene: Yago84_49 Start: 46049, Stop: 44235, Start Num: 111

Candidate Starts for Yago84_49:

(86, 46139), (88, 46133), (Start: 111 @46049 has 5 MA's), (Start: 118 @46040 has 2 MA's), (123, 45998), (149, 45872), (157, 45830), (165, 45788), (178, 45719), (185, 45680), (187, 45668), (188, 45665), (204, 45590), (207, 45569), (218, 45476), (237, 45350), (241, 45335), (243, 45323), (256, 45233), (284, 45011), (292, 44936), (303, 44822), (305, 44813), (309, 44750), (314, 44711), (317, 44696), (326, 44618), (327, 44606), (328, 44600), (329, 44585), (331, 44576), (333, 44567), (348, 44489), (351, 44456), (352, 44453), (360, 44399), (361, 44393), (365, 44357), (369, 44333), (381, 44261),

Gene: Yahalom_57 Start: 53658, Stop: 51841, Start Num: 117

Candidate Starts for Yahalom_57:

(34, 54042), (75, 53841), (Start: 117 @53658 has 46 MA's), (120, 53628), (159, 53448), (185, 53295), (187, 53283), (192, 53253), (194, 53247), (207, 53184), (208, 53178), (214, 53127), (217, 53100), (218, 53091), (226, 53043), (243, 52938), (257, 52842), (265, 52791), (282, 52647), (287, 52608), (290, 52578), (292, 52551), (294, 52539), (302, 52443), (303, 52437), (305, 52428), (306, 52416), (311, 52344), (313, 52314), (317, 52296), (318, 52287), (326, 52218), (327, 52206), (329, 52185), (342, 52116), (345, 52101), (350, 52077), (351, 52056), (354, 52038), (355, 52032), (360, 51999), (361, 51993), (364, 51975), (365, 51963), (367, 51951), (369, 51939), (376, 51897), (381, 51867),

Gene: Yeshua_54 Start: 47959, Stop: 46142, Start Num: 115

Candidate Starts for Yeshua_54:

(Start: 115 @47959 has 14 MA's), (Start: 118 @47950 has 2 MA's), (120, 47923), (122, 47911), (125, 47887), (128, 47878), (164, 47704), (178, 47629), (191, 47554), (207, 47476), (214, 47419), (218, 47383), (219, 47371), (224, 47347), (238, 47254), (243, 47230), (246, 47212), (282, 46939), (283, 46936), (290, 46870), (292, 46843), (302, 46735), (303, 46729), (305, 46720), (312, 46630), (313, 46621), (314, 46618), (317, 46603), (326, 46525), (327, 46513), (329, 46492), (339, 46444), (348, 46396), (351, 46363), (355, 46339), (361, 46300), (363, 46285), (369, 46240), (381, 46168),

Gene: Yinz_58 Start: 53540, Stop: 51720, Start Num: 116

Candidate Starts for YinZ_58:

(75, 53720), (Start: 116 @53540 has 6 MA's), (120, 53507), (159, 53327), (185, 53174), (187, 53162), (192, 53132), (194, 53126), (207, 53063), (208, 53057), (214, 53006), (217, 52979), (218, 52970), (226, 52922), (243, 52817), (257, 52721), (265, 52670), (282, 52526), (287, 52487), (290, 52457), (292, 52430), (294, 52418), (302, 52322), (303, 52316), (305, 52307), (306, 52295), (311, 52223), (313, 52193), (317, 52175), (318, 52166), (326, 52097), (327, 52085), (329, 52064), (342, 51995), (345, 51980), (350, 51956), (351, 51935), (355, 51911), (361, 51872), (364, 51854), (365, 51842), (367, 51830), (369, 51818), (376, 51776), (381, 51746),

Gene: Yoshand_62 Start: 54312, Stop: 52453, Start Num: 105

Candidate Starts for Yoshand_62:

(Start: 97 @54336 has 5 MA's), (Start: 105 @54312 has 315 MA's), (Start: 116 @54288 has 6 MA's), (Start: 118 @54282 has 2 MA's), (123, 54240), (125, 54219), (149, 54105), (151, 54099), (155, 54069), (167, 54009), (171, 53988), (180, 53934), (183, 53922), (186, 53904), (188, 53892), (207, 53787), (214, 53730), (218, 53694), (219, 53682), (224, 53658), (226, 53646), (229, 53628), (231, 53610), (233, 53592), (241, 53553), (242, 53544), (243, 53541), (244, 53538), (289, 53181), (292, 53148), (295, 53127), (303, 53034), (305, 53025), (309, 52962), (313, 52926), (314, 52923), (317, 52908), (326, 52830), (327, 52818), (329, 52797), (337, 52758), (351, 52668), (354, 52650), (355, 52644), (357, 52629), (361, 52605), (363, 52590), (364, 52587), (365, 52575), (369, 52551), (378, 52503), (381, 52479),

Gene: YouGoGlencoco_61 Start: 54264, Stop: 52405, Start Num: 105

Candidate Starts for YouGoGlencoco_61:

(Start: 97 @54288 has 5 MA's), (Start: 105 @54264 has 315 MA's), (Start: 116 @54240 has 6 MA's), (Start: 118 @54234 has 2 MA's), (123, 54192), (125, 54171), (149, 54057), (151, 54051), (155, 54021), (167, 53961), (171, 53940), (180, 53886), (183, 53874), (186, 53856), (188, 53844), (207, 53739), (214, 53682), (218, 53646), (219, 53634), (225, 53607), (229, 53580), (231, 53562), (233, 53544), (241, 53505), (242, 53496), (243, 53493), (275, 53235), (289, 53133), (292, 53100), (295, 53079), (303, 52986), (305, 52977), (309, 52914), (313, 52878), (314, 52875), (317, 52860), (326, 52782), (327, 52770), (329, 52749), (337, 52710), (351, 52620), (354, 52602), (355, 52596), (357, 52581), (361, 52557), (363, 52542), (364, 52539), (365, 52527), (369, 52503), (378, 52455), (381, 52431),

Gene: Zaider_61 Start: 54505, Stop: 52646, Start Num: 105

Candidate Starts for Zaider_61:

(Start: 97 @54529 has 5 MA's), (Start: 105 @54505 has 315 MA's), (Start: 116 @54481 has 6 MA's), (Start: 118 @54475 has 2 MA's), (123, 54433), (125, 54412), (149, 54298), (151, 54292), (155, 54262), (167, 54202), (171, 54181), (180, 54127), (183, 54115), (186, 54097), (188, 54085), (207, 53980), (214, 53923), (218, 53887), (219, 53875), (224, 53851), (226, 53839), (229, 53821), (231, 53803), (233, 53785), (241, 53746), (242, 53737), (243, 53734), (244, 53731), (289, 53374), (292, 53341), (295, 53320), (303, 53227), (305, 53218), (309, 53155), (313, 53119), (314, 53116), (317, 53101), (326, 53023), (327, 53011), (329, 52990), (337, 52951), (351, 52861), (354, 52843), (355, 52837), (357, 52822), (361, 52798), (363, 52783), (364, 52780), (365, 52768), (369, 52744), (378, 52696), (381, 52672),

Gene: Zelda_61 Start: 54666, Stop: 52807, Start Num: 105

Candidate Starts for Zelda_61:

(Start: 97 @54690 has 5 MA's), (Start: 105 @54666 has 315 MA's), (Start: 116 @54642 has 6 MA's), (Start: 118 @54636 has 2 MA's), (123, 54594), (125, 54573), (149, 54459), (151, 54453), (155, 54423), (167, 54363), (171, 54342), (180, 54288), (183, 54276), (186, 54258), (188, 54246), (207, 54141), (214, 54084), (218, 54048), (219, 54036), (225, 54009), (231, 53964), (241, 53907), (242, 53898), (243, 53895), (289, 53535), (292, 53502), (295, 53481), (303, 53388), (305, 53379), (309, 53316), (313, 53280), (314, 53277), (317, 53262), (326, 53184), (327, 53172), (329, 53151), (337, 53112), (351, 53022), (354, 53004), (355, 52998), (357, 52983), (361, 52959), (363, 52944), (364, 52941),

(365, 52929), (369, 52905), (378, 52857), (381, 52833),

Gene: Zemanar_54 Start: 53874, Stop: 52054, Start Num: 104

Candidate Starts for Zemanar_54:

(Start: 97 @53892 has 5 MA's), (Start: 104 @53874 has 1 MA's), (Start: 118 @53850 has 2 MA's),
(120, 53823), (123, 53808), (141, 53736), (142, 53730), (165, 53601), (167, 53592), (168, 53589),
(172, 53568), (175, 53544), (182, 53508), (184, 53502), (188, 53478), (189, 53475), (191, 53460),
(192, 53451), (193, 53448), (214, 53325), (216, 53307), (218, 53289), (219, 53277), (225, 53250),
(242, 53139), (243, 53136), (246, 53118), (248, 53106), (253, 53064), (255, 53052), (265, 52989),
(282, 52845), (283, 52842), (287, 52806), (289, 52782), (290, 52776), (292, 52749), (303, 52635),
(305, 52626), (312, 52536), (313, 52527), (317, 52509), (326, 52431), (327, 52419), (329, 52398),
(333, 52380), (337, 52359), (342, 52329), (351, 52269), (354, 52251), (355, 52245), (361, 52206),
(363, 52191), (364, 52188), (365, 52176), (369, 52152), (376, 52110), (378, 52104), (379, 52101),
(381, 52080),

Gene: Zenteno07_62 Start: 54178, Stop: 52334, Start Num: 110

Candidate Starts for Zenteno07_62:

(Start: 110 @54178 has 3 MA's), (123, 54121), (127, 54094), (138, 54058), (151, 53992), (167, 53905),
(172, 53881), (176, 53851), (180, 53830), (185, 53806), (188, 53791), (207, 53686), (218, 53593),
(219, 53581), (226, 53545), (243, 53440), (265, 53293), (272, 53209), (273, 53203), (282, 53143),
(283, 53140), (287, 53104), (289, 53080), (292, 53047), (303, 52933), (305, 52924), (313, 52810),
(317, 52792), (326, 52714), (327, 52702), (329, 52681), (342, 52612), (345, 52597), (351, 52552),
(355, 52528), (361, 52489), (363, 52474), (365, 52459), (369, 52435), (376, 52390), (378, 52384),
(381, 52360),

Gene: Zonia_62 Start: 54586, Stop: 52727, Start Num: 105

Candidate Starts for Zonia_62:

(Start: 97 @54610 has 5 MA's), (Start: 105 @54586 has 315 MA's), (Start: 116 @54562 has 6 MA's),
(Start: 118 @54556 has 2 MA's), (123, 54514), (125, 54493), (149, 54379), (151, 54373), (155, 54343),
(167, 54283), (171, 54262), (180, 54208), (183, 54196), (186, 54178), (188, 54166), (207, 54061),
(214, 54004), (218, 53968), (219, 53956), (225, 53929), (231, 53884), (241, 53827), (242, 53818),
(243, 53815), (275, 53557), (289, 53455), (292, 53422), (295, 53401), (303, 53308), (305, 53299),
(309, 53236), (313, 53200), (314, 53197), (317, 53182), (326, 53104), (327, 53092), (329, 53071),
(337, 53032), (351, 52942), (354, 52924), (355, 52918), (357, 52903), (361, 52879), (363, 52864),
(364, 52861), (365, 52849), (369, 52825), (372, 52804), (378, 52777), (381, 52753), (382, 52738),