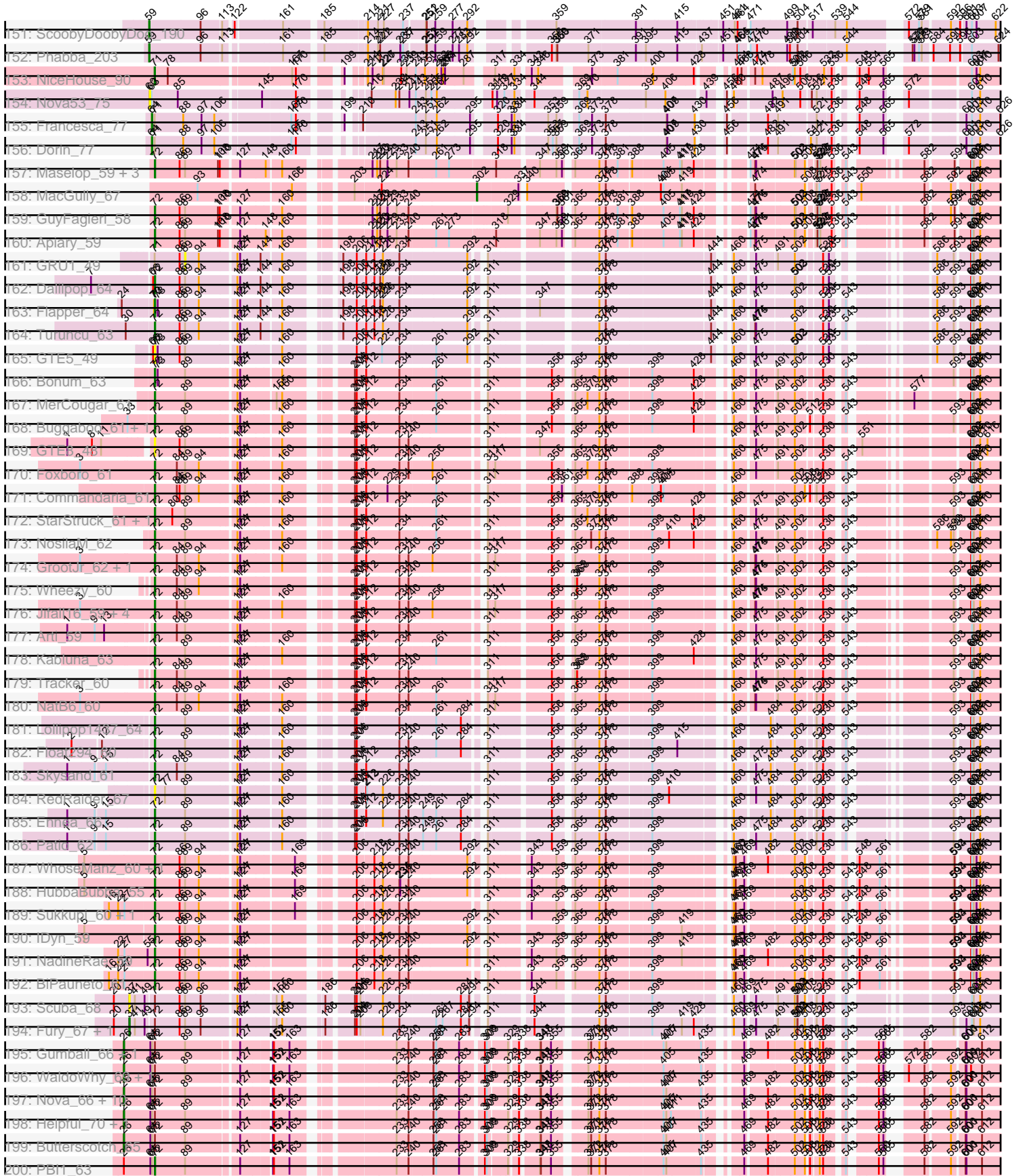


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51: Squillum_79 + 4	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
52: Bmoc_78	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
53: Shuckie_78	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
54: Scheme_81	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
55: EGole_81	332	100	180	182	214	235	282	298	311	330	351	371	403	411	416	474	502	521	543	546	564	580	592
56: LilMartin_77 + 2	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
57: Navo_77	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
58: Jay2Jay_84	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
59: Anedea_78	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
60: Pepperwood_80	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
61: NootNoot_75	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
62: Peebs_79	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
63: WhereRU_77	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
64: Sushi23_79	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
65: Warpy_83	332	100	180	182	214	235	282	298	311	330	351	371	403	411	416	474	502	521	543	546	564	580	592
66: Marsus_78	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
67: Mildred21_78	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
68: Targaryen_80	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
69: Samistr12_80	88	100	180	182	214	235	282	298	334	358	367	371	411	474	502	521	543	546	564	580	592		
70: Riptide_77	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
71: Battuta_80 + 1	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
72: Birchyn_79	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
73: Enygma_82	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
74: Rikishi_84 + 3	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
75: Wolford_81	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
76: Genie2_82 + 2	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
77: Gibbi_86 + 3	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
78: Tomas_84	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
79: Spelly_82	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
80: KentuckyRacer_82	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
81: Amabiko_82 + 1	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
82: Solientia_82	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
83: TomSawyer_80	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
84: IchabodCrane_79	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
85: Elmer_84	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
86: Mugiwara_83	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
87: Wipeout_79	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
88: StarPlatinum_82	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
89: LukeCage_81	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
90: Bordeaux_80	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
91: SaltySpitoon_81	61	100	180	182	214	226	282	298	322	338	371	395	411	474	502	521	543	546	564	580	592		
92: Yaboi_82	68	100	172	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
93: Annadreamy_58 + 3	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
94: Beifort_62 + 1	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
95: SeresaTree_61	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
96: Forrest_62 + 3	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
97: Comrade_61	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
98: Francob_59	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
99: TunaTartare_59	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592
100: Beuffer_58	128	140	151	172	214	235	282	298	322	344	351	371	398	401	416	474	502	521	543	546	564	580	592

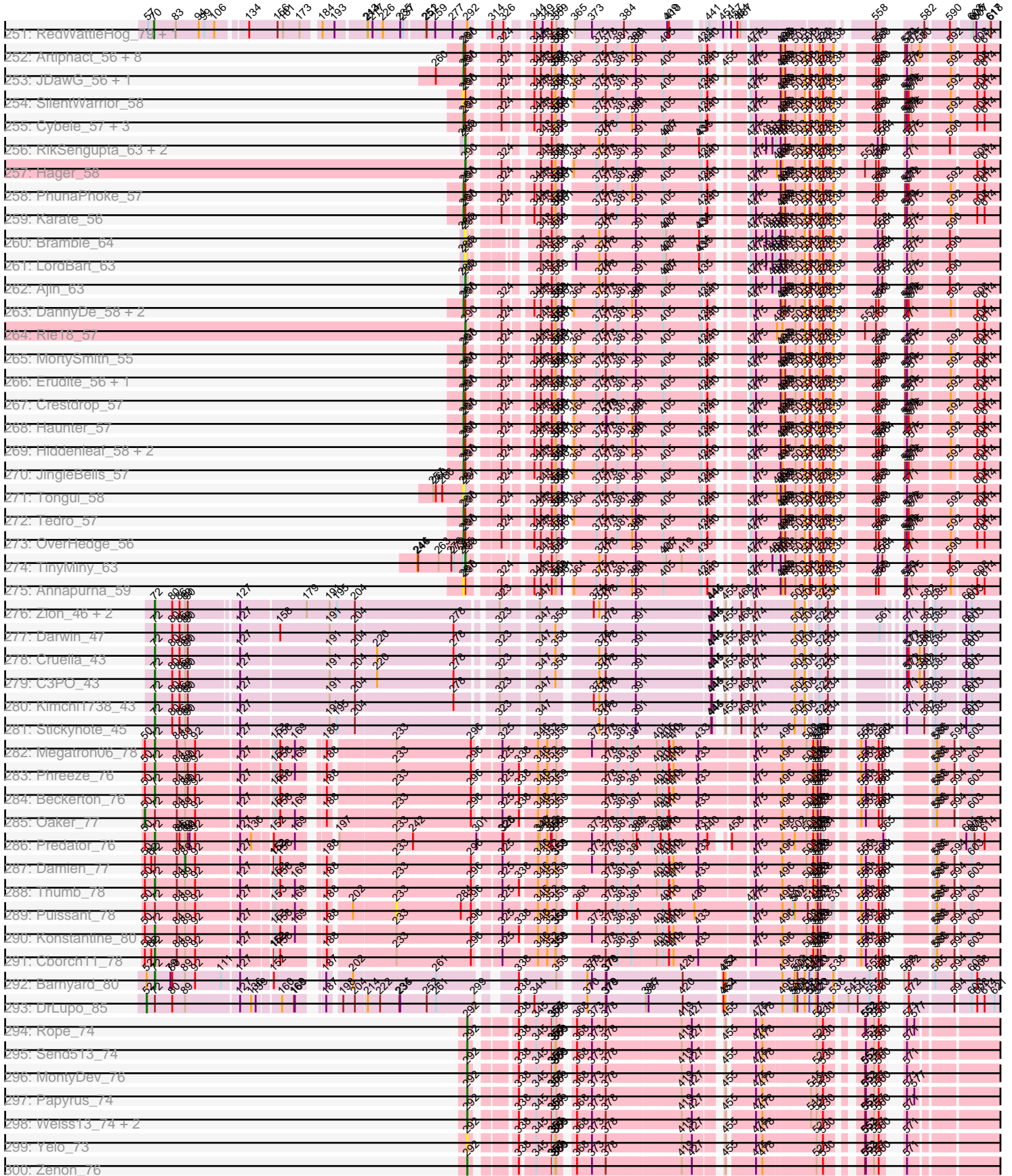
Zoomed Pham 215668



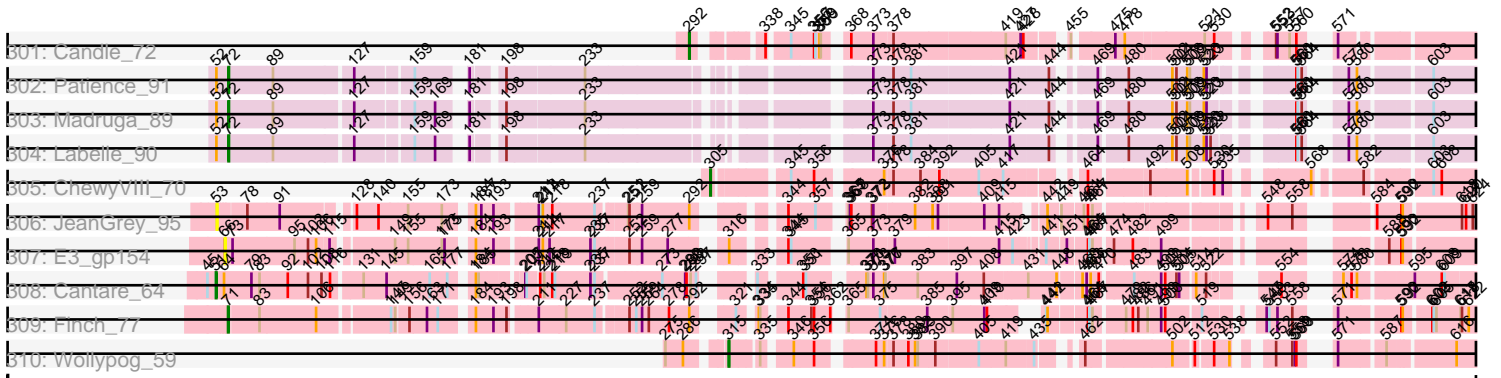
Zoomed Pham 215668

Z01: Adjutor_65	76	86	88	127	152	163	233	240	289	283	300	308	316	372	436	469	482	502	506	513	586	582	592	600	612	
Z02: Phalaborwa	76	86	88	127	152	163	233	240	289	283	300	308	316	372	436	469	482	502	506	513	586	582	592	600	612	
Z03: PL06_66	76	86	88	101	127	152	163	233	240	289	283	300	308	316	436	469	482	502	506	513	586	582	592	600	612	
Z04: HawkEye_75	76	86	88	127	152	163	233	240	289	283	300	308	316	372	436	469	482	502	506	513	586	582	592	600	612	
Z05: Madi_65	76	86	88	127	152	163	233	240	289	283	300	308	316	372	436	469	482	502	506	513	586	582	592	600	612	
Z06: BeyonCage_66 + 4	76	86	88	127	152	163	233	240	289	283	300	308	316	372	436	469	482	502	506	513	586	582	592	600	612	
Z07: LilyPad_66	76	86	88	127	152	163	233	240	289	283	300	308	316	372	436	469	482	502	506	513	586	582	592	600	612	
Z08: Suzy_65	76	86	88	127	152	163	233	240	289	283	300	308	316	372	436	469	482	502	506	513	586	582	592	600	612	
Z09: LittleFella_76	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z10: Skog_212	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z11: CherryTomatoes	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z12: SCentae_152	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z13: Oogie_96	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z14: ScarletRaider_96	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z15: Toneprano_95	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z16: Pakusa_93 + 1	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z17: AtoKI_92 + 4	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z18: Lenoski_97 + 4	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z19: Chidreber_98	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z20: DahanDe_85	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z21: MintFritos_138	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z22: GMA6_80	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z23: FlyingFortuna_98	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z24: UBSmoodge_113	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z25: ChisanaKitsumi	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z26: GreteLyn_79 + 4	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z27: DumpTruck_80	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z28: Stormer_79 + 4	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z29: Tiliicus_73	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z30: Apeppi_73 + 1	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z31: Mima20_79	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z32: Erutan_79	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z33: Ranch_80	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z34: LavAbarEik_78	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z35: Patos_84 + 1	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z36: Xenia2_80	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z37: ParvusTarda_77	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z38: OitterstedtS21	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z39: GOATification	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z40: Sampudon_80	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z41: Zany_76	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z42: DaviePasture	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z43: Lambo_77	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z44: DoobyDoo_78	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z45: Alephlian_79	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z46: RazorC_79 + 1	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z47: Genamy16_81	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z48: Wojtek_72	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z49: NovaSharks_81	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612
Z50: Lha22_79	76	86	88	127	152	163	191	191	201	201	201	201	201	201	442	451	462	482	482	482	513	586	582	592	600	612

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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 215668 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215668 has 613 members, 77 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_119, Phrappuccino_119
- Track 2 : Indlulamithi_76
- Track 3 : Leopard_84, Onyinye_84
- Track 4 : Aikoy_85
- Track 5 : Leviticus_53
- Track 6 : Lika_54
- Track 7 : Legacy_52
- Track 8 : Danzina_56
- Track 9 : Triste_55, Chucky_54, Emaanora_57, Whatever_54, TagePhighter_56
- Track 10 : Lannister_54
- Track 11 : Goby_55, Toma_55
- Track 12 : BryanRecycles_55, Rusticus_55, Izzy_55, Jash_55, Oliynyk_55
- Track 13 : Hippo_54
- Track 14 : Bovely_53, Nerdos_52, Indigo_52, Phettuccine_53, Aaronocolus_53
- Track 15 : Snorlax_54, Dwayne_54, Ejemplo_52, TuanPN_52
- Track 16 : Katalie_54, RedBear_55, South40_54
- Track 17 : Sujidade_55
- Track 18 : Lorelei_55
- Track 19 : BeardedLady_53
- Track 20 : Celeste_56
- Track 21 : Maneekul_54
- Track 22 : Esperer_53
- Track 23 : SunsetPointe_52, Ozzie_52
- Track 24 : Godpower_56
- Track 25 : Zemlya_55
- Track 26 : BarryBee_57
- Track 27 : SarahRose_54
- Track 28 : Brataylor_57
- Track 29 : Yasdnil_54
- Track 30 : Dattran_57
- Track 31 : Caliburn_52
- Track 32 : Nabi_55
- Track 33 : Asten_54
- Track 34 : EnochSoames_57
- Track 35 : Nanodon_56
- Track 36 : Werner_54
- Track 37 : OzzyJ_56

- Track 38 : Hydra_54
- Track 39 : Eddasa_55
- Track 40 : Unstoppable_53
- Track 41 : Rana_55
- Track 42 : VieEnRose_54
- Track 43 : Urza_53, Itza_54, Celia_53
- Track 44 : Daubenski_81
- Track 45 : Cursive_78, PacManQ_79, Cross_80, HangryHippo_80, Watermoore_80, BlueOtter_80, Lululemon_79, Leo04_81
- Track 46 : Larnav_80, Tribute_78
- Track 47 : Paradiddles_75
- Track 48 : Evy_80
- Track 49 : Braelyn_79
- Track 50 : Deutsch_80
- Track 51 : Squillium_79, Bartholomune_78, Liandry_78, Persimmon_77, PinkiePie_78
- Track 52 : Bmoc_78
- Track 53 : Shuckle_78
- Track 54 : Scheme_81
- Track 55 : EGole_81
- Track 56 : LilMartin_77, MulchMansion_77, Angela_76
- Track 57 : Navo_77
- Track 58 : Jay2Jay_84
- Track 59 : Anedea_78
- Track 60 : Pepperwood_80
- Track 61 : NootNoot_75
- Track 62 : Peebs_79
- Track 63 : WhereRU_77
- Track 64 : Sushi23_79
- Track 65 : Warpy_83
- Track 66 : Marsus_78
- Track 67 : Mildred21_78
- Track 68 : Targaryen_80
- Track 69 : Samisti12_80
- Track 70 : Riptide_77
- Track 71 : Battuta_80, Starbow_80
- Track 72 : Birchlyn_79
- Track 73 : Enygma_82
- Track 74 : Rikishi_84, Jollison_81, Quaran19_81, PumpkinSpice_81
- Track 75 : Wofford_81
- Track 76 : Genie2_82, BoomerJR_82, Stanimal_82
- Track 77 : Gibbi_86, JimJam_82, CeilingFan_81, Karimac_81
- Track 78 : Tomas_84
- Track 79 : Spelly_82
- Track 80 : KentuckyRacer_82
- Track 81 : Amabiko_82, MindFlayer_79
- Track 82 : Sollertia_82
- Track 83 : TomSawyer_80
- Track 84 : IchabodCrane_79, Spilled_83
- Track 85 : Elmer_84
- Track 86 : Mugiwara_83
- Track 87 : Wipeout_79
- Track 88 : StarPlatinum_82

- Track 89 : LukeCage_81
- Track 90 : Bordeaux_80
- Track 91 : SaltySpittoon_81
- Track 92 : Yaboi_82
- Track 93 : Annadreamy_58, Limpid_57
- Track 94 : Belfort_62, SparkleGoddess_61
- Track 95 : SeresaTree_61
- Track 96 : Forrest_62, Gilson_61, Jada_60, MeganTheeKilla_59
- Track 97 : Comrade_61
- Track 98 : Francob_59
- Track 99 : TunaTartare_59
- Track 100 : Beuffert_58
- Track 101 : Emma1919_62
- Track 102 : Westy_58
- Track 103 : Patelgo_60
- Track 104 : Kenrey_62, Phredrick_60
- Track 105 : Moab_61
- Track 106 : Sham_57
- Track 107 : Faust_61
- Track 108 : Blueeyedbeauty_60
- Track 109 : Karp_59
- Track 110 : Stigma_60
- Track 111 : BillNye_56
- Track 112 : Wakanda_57
- Track 113 : Muntaha_58
- Track 114 : Circinus_58
- Track 115 : Rooney_51
- Track 116 : Dryad_56
- Track 117 : ShakeNBake_51
- Track 118 : Gibson_51
- Track 119 : Yara_46
- Track 120 : Wilkos_53
- Track 121 : Wentworth_52
- Track 122 : Greenbelt_76
- Track 123 : PHTowN_51
- Track 124 : Lizz_51
- Track 125 : Concombre_214, Bxz1_199, LolaVinca_207, Phusco_207, Fongie_210, NoodleTree_215, DirtMonster_202, Asterius_211, Kamryn_208, Essence_206, Rahel_210, RoMag_204, Capablanca_214, SmallFry_209, Jezreel_206, FrayBell_212, Demodog_215, TinyTim_207, Domi_203, Iota_204, Shnickers_207, SrishMeg2525_206, ShiaLabeouf_206, Primadonna_204, Blackbrain_206, Melpomini_204, Darko_208, Specks_213, SVoro_206, BananaFence_206, Tortoise16_207, LordLeafolot_211, JigglyPuff_216, Phlegm_213, CindyLou_210, NuevoMundo_212, Tainan_210, Spec_204, Teardrop_206, Gabriel_212, Mikro_205, Maby2021_209, FoxtrotP1_207
- Track 126 : Shelob_210, MikeLiesIn_211, Basquiat_206, Naval22_214, Ngannou_206, Turret_202, ChickenPhender_205, EmToTheThree_209, Bonray_211, Gamgam_210, InigoMontoya_212, Atlantean_209, Lee7_209, Janiyra_212, Flabslab_204, Nidhogg_210, Stubby_193, Morizzled23_206, JustHall_203, Bipolarisk_207, Chargie21_206, Delilah_207, Ading_210, Momo_210, Babyland_212, InterFolia_212, ParkTD_208, Fludd_209, Matsumoto_208, Khaleesi_208, Belieber_202, Lethe_211, Kboogie_213, ScottMcG_202, Quasimodo_211, Naija_210, Catera_201, Cactojaque_204, EmmaElysia_212, NedWong_208, StubbySaigey_214,

Ewok_208, Trinitium_205, YoungMoneyMata_207, McWolfish_206, Jessibeth14_209, ValleyTerrace_210, Amataga_210, Napoleon13_206, Loanshark_206, Patter_210, DrPhinkDaddy_206, Latch_209, Chomp_209, Willis_210, YemiJoy2021_210, Audrick_211, DeejaClivia_197, Zeenon_211, Izajani_207, Ava3_208, ChaylaJr_206, Pivoine_210, PurduePete_209, Spud_203

- Track 127 : HyRo_197, Shifa_186
- Track 128 : Colt_200, Cane17_200, Blubba_198
- Track 129 : Grasshills_217, Bigswole_214, BigCity_218, EggyFarm_218, Pier_210
- Track 130 : Erdmann_210, Shrimp_211, ArcherS7_209, Delylah_211, Caravan_200, Derek_206, LifeSavor_208, Jedediah_209, EasyJones_212, Drazdys_207, Burrough_211, Breeniome_208, Gizmo_215, Mangeria_210, Tyke_207, Bangla1971_209, DTDevon_211, Guwapp_204, Bread_204, JPickles_205, Salacia_209, Pio_217
- Track 131 : Astraea_203, Littleton_212, ZygoTaiga_206, Roots515_211, McGee_208, FudgeTart_204, Daffodil_214, Rizal_201, ErnieJ_202, Wally_207, Pinkcreek_193, Megamind_206, Zalkecks_208, Yucca_209, BackyardAgain_204, Rabinovish_202, SilverDipper_213
- Track 132 : Grungle_193
- Track 133 : Phox_210, Koguma_208
- Track 134 : StephanieG_205, IkeLoa_201, BadAgartude_203
- Track 135 : Nappy_210, Dandelion_217
- Track 136 : LRRHood_202, CharlieB_203, Lukilu_200, ET08_197
- Track 137 : Ghost_209, Alice_196, Pleione_213
- Track 138 : Tonenili_231
- Track 139 : MoMoMixon_207, Sebata_210
- Track 140 : Shaqnato_200, Yassified_206, Norm_209, Sauce_205, Ronan_205, Blackdragon_204, QBert_201, Sprinklers_207, Halldule_202
- Track 141 : Ablatia_207
- Track 142 : LinStu_208, Adlitam_208, Dietrick_198, Jemmno_208, GlutenPhree_209
- Track 143 : JulietS_202, BeanWater_201
- Track 144 : I3_219
- Track 145 : Jaygup_205
- Track 146 : JayJay_211
- Track 147 : Cali_202
- Track 148 : Issimir_202
- Track 149 : Greely_198
- Track 150 : Myrna_192
- Track 151 : ScoobyDoobyDoo_190
- Track 152 : Phabba_203
- Track 153 : NiceHouse_90
- Track 154 : Nova53_75
- Track 155 : Francesca_77
- Track 156 : Dorin_77
- Track 157 : Maselop_59, Braxoaddie_59, CoffeeBean_59, Polyyuki_59
- Track 158 : MacGully_67
- Track 159 : GuyFagieri_58
- Track 160 : Apiary_59
- Track 161 : GRU1_49
- Track 162 : Dalilpop_64
- Track 163 : Flapper_64
- Track 164 : Turuncu_63
- Track 165 : GTE5_49

- Track 166 : Bonum_63
- Track 167 : MerCougar_61
- Track 168 : Buggaboo_61, SuperSulley_61
- Track 169 : GTE8_48
- Track 170 : Foxboro_61
- Track 171 : Commandaria_61
- Track 172 : StarStruck_61, Outis_61
- Track 173 : NosilaM_62
- Track 174 : GrootJr_62, NovumRegina_60
- Track 175 : Wheezy_60
- Track 176 : Jifall16_59, Kurt_60, Emianna_60, KidneyBean_60, Phomeo_59
- Track 177 : Arti_59
- Track 178 : Kabluna_63
- Track 179 : Tracker_60
- Track 180 : NatB6_60
- Track 181 : Lollipop1437_64
- Track 182 : Float294_60
- Track 183 : Skysand_61
- Track 184 : RedRaider_67
- Track 185 : Ennea_66
- Track 186 : Patio_62
- Track 187 : WhoseManz_60, Marietta_61
- Track 188 : HubbaBubba_55
- Track 189 : Sukkupi_60, Yndexa_60
- Track 190 : IDyn_59
- Track 191 : NadineRae_59
- Track 192 : BiPauneto_61
- Track 193 : Scuba_68
- Track 194 : Fury_67, Pleakley_67
- Track 195 : Gumball_66, SirHarley_69
- Track 196 : WaldoWhy_69, Chill_69
- Track 197 : Nova_66, Erk16_66, Giuseppe_68, KandZ_65, Visconti_68, Penelope2018_67, Troll4_66, Delton_67, Thoth_67, Prager_67, BigMama_65
- Track 198 : Helpful_70, Mopey_68
- Track 199 : Butterscotch_65
- Track 200 : PBI1_63
- Track 201 : Adjutor_65
- Track 202 : Phalaborwa_70
- Track 203 : PLOT_66
- Track 204 : Hawkeye_75
- Track 205 : Madi_65
- Track 206 : Beyoncage_66, Djokovic_66, Sienna_66, BiteSize_66, Terapin_67
- Track 207 : LilyPad_66
- Track 208 : Suzy_65
- Track 209 : LittleFella_70
- Track 210 : Skog_212
- Track 211 : CherryTomatoes_154, Pupper_153
- Track 212 : SCentae_152
- Track 213 : Oogie_96
- Track 214 : ScarletRaider_99
- Track 215 : Toneprano_95, Gray_98
- Track 216 : Pakusa_93, Twin_92
- Track 217 : Aloki_92, Hanem_97, Schomber_96, Kabocha_99, EmoNemo_92

- Track 218 : Lenoshki_97, Beted_97
- Track 219 : Chidiebere_98
- Track 220 : DalanDe_85
- Track 221 : MintFritos_93
- Track 222 : GMA6_80
- Track 223 : FlyingTortilla_98
- Track 224 : UBSmoodge_101
- Track 225 : ChisanaKitsune_95
- Track 226 : GretelLyn_79, Sadboi_79, MoiGyank_82, Gibbin_81, Yikes_80
- Track 227 : DumpTruck_80
- Track 228 : Stormer_79, Alyssmiracle_81, Jamemuya19_79, Rumi_79, Astralis_80
- Track 229 : Tillicus_73
- Track 230 : Apeppi_73, LuckyLeo_75
- Track 231 : Mima20_79
- Track 232 : Erutan_79
- Track 233 : Ranch_80
- Track 234 : LavAbarElk_78
- Track 235 : Patos_84, NorManre_84
- Track 236 : Xenia2_80
- Track 237 : ParvusTarda_77
- Track 238 : OtterstedtS21_79
- Track 239 : GOATification_78, Fulcrum_78, BirthdayBoy_81
- Track 240 : Sampudon_80, Jalebi_78
- Track 241 : Zany_76
- Track 242 : DaviePasture_79
- Track 243 : Lambo_77
- Track 244 : DoobyDoo_78
- Track 245 : Alephilan_79
- Track 246 : RazorC_79, Avian_78
- Track 247 : Genamy16_81
- Track 248 : Wojtek_72
- Track 249 : NovaSharks_80
- Track 250 : Lila22_79
- Track 251 : RedWattleHog_79, Stormageddon_76
- Track 252 : Artiphact_56, Gilda_57, NarutoRun_57, Pharpay_56, Rachella_57, Kate_57, Anakin_57, AnnaSerena_57, Krampus_57
- Track 253 : JDawG_56, Aesir_56
- Track 254 : SilentWarrior_58
- Track 255 : Cybele_57, CoolCookie_56, Neptune_57, Potty_56
- Track 256 : RikSengupta_63, Kors_64, Sparcetus_63
- Track 257 : Hager_58
- Track 258 : PhunaPhoke_57
- Track 259 : Karate_56
- Track 260 : Bramble_64
- Track 261 : LordBart_63
- Track 262 : Ajin_63
- Track 263 : DannyDe_58, Poultruss_56, FreddieHg_58
- Track 264 : Rie18_57
- Track 265 : MortySmith_55
- Track 266 : Erudite_56, Dauntless_56
- Track 267 : Crestdrop_57
- Track 268 : Haunter_57
- Track 269 : Hiddenleaf_58, Snakehole_58, Chivey_58

- Track 270 : JingleBells_57
- Track 271 : Tongui_58
- Track 272 : Tedro_57
- Track 273 : OverHedge_56
- Track 274 : TinyMiny_63
- Track 275 : Annapurna_59
- Track 276 : Zion_46, PeteyPab_45, PotatoChip_46
- Track 277 : Darwin_47
- Track 278 : Cruella_43
- Track 279 : C3PO_43
- Track 280 : Kimchi1738_43
- Track 281 : Stickynote_45
- Track 282 : Megatron06_78
- Track 283 : Phreeze_76
- Track 284 : Beckerton_76
- Track 285 : Oaker_77
- Track 286 : Predator_76
- Track 287 : Damien_77
- Track 288 : Thumb_78
- Track 289 : Puissant_78
- Track 290 : Konstantine_80
- Track 291 : Cborch11_78
- Track 292 : Barnyard_80
- Track 293 : DrLupo_85
- Track 294 : Rope_74
- Track 295 : Send513_74
- Track 296 : MontyDev_76
- Track 297 : Papyrus_74
- Track 298 : Weiss13_74, Nilo_76, Riparian_76
- Track 299 : Yelo_73
- Track 300 : Zenon_76
- Track 301 : Candle_72
- Track 302 : Patience_91
- Track 303 : Madruga_89
- Track 304 : Labelle_90
- Track 305 : ChewyVIII_70
- Track 306 : JeanGrey_95
- Track 307 : E3_gp154
- Track 308 : Cantare_64
- Track 309 : Finch_77
- Track 310 : Wollypog_59

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

The start number called the most often in the published annotations is 66, it was called in 166 of the 536 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aaronocolus_53, Ablatia_207, Ading_210, Amataga_210, Asten_54, Asterius_211, Atlantean_209, Audrick_211, Ava3_208, Babyland_212, BadAgartude_203,

BananaFence_206, BarryBee_57, Basquiat_206, BeardedLady_53, Belieber_202, Bipolarisk_207, Blackbrain_206, Blackdragon_204, Blubba_198, Bonray_211, Bovely_53, Brataylor_57, BryanRecycles_55, Bxz1_199, Cactojaque_204, Caliburn_52, Cane17_200, Capablanca_214, Catera_201, Celeste_56, Celia_53, Chargie21_206, ChaylaJr_206, CherryTomatoes_154, ChickenPhender_205, Chomp_209, Chucky_54, CindyLou_210, Colt_200, Concombre_214, Danzina_56, Darko_208, Dattran_57, DeejaClivia_197, Delilah_207, Demodog_215, DirtMonster_202, Domi_203, DrPhinkDaddy_206, Dwayne_54, E3_gp154, Eddasa_55, Ejemplo_52, EmToTheThree_209, Emaanora_57, EmmaElysia_212, EnochSoames_57, Esperer_53, Essence_206, Ewok_208, Flabslab_204, Fludd_209, Fongie_210, FoxtrotP1_207, FrayBell_212, Gabriel_212, Gamgam_210, Goby_55, Godpower_56, Grungle_193, Halldule_202, Hippo_54, HyRo_197, Hydra_54, IkeLoa_201, Indigo_52, InigoMontoya_212, InterFolia_212, Iota_204, Itza_54, Izajani_207, Izzy_55, Janiyra_212, Jash_55, JayJay_211, Jessibeth14_209, Jezreel_206, JigglyPuff_216, JustHall_203, Kamryn_208, Katalie_54, Kboogie_213, Khaleesi_208, Lannister_54, Latch_209, Lee7_209, Legacy_52, Lethe_211, Leviticus_53, Loanshark_206, LolaVinca_207, LordLeafolot_211, Maby2021_209, Maneekul_54, Matsumoto_208, McWolfish_206, Melpomini_204, MikeLiesIn_211, Mikro_205, Momo_210, Morizzled23_206, Nabi_55, Naija_210, Nanodon_56, Napoleon13_206, Naval22_214, NedWong_208, Nerdos_52, Ngannou_206, Nidhogg_210, NoodleTree_215, Norm_209, NuevoMundo_212, Oliynyk_55, Ozzie_52, OzzyJ_56, ParkTD_208, Patter_210, Phettuccine_53, Phlegm_213, Phusco_207, Pivoine_210, Primadonna_204, Pupper_153, PurduePete_209, QBert_201, Quasimodo_211, Rahel_210, RedBear_55, RoMag_204, Ronan_205, Rusticus_55, SCentae_152, SVoro_206, SarahRose_54, Sauce_205, ScottMcG_202, Shaqnato_200, Shelob_210, ShiaLabeouf_206, Shifa_186, Shnickers_207, Skog_212, SmallFry_209, Snorlax_54, South40_54, Spec_204, Specks_213, Sprinklers_207, Spud_203, SrishMeg2525_206, StephanieG_205, StubbySaigey_214, Stubby_193, Sujidade_55, SunsetPointe_52, TagePhighter_56, Tainan_210, Teardrop_206, TinyTim_207, Toma_55, Tortoise16_207, Trinitium_205, Triste_55, TuanPN_52, Turret_202, Unstoppable_53, Urza_53, ValleyTerrace_210, VieEnRose_54, Werner_54, Whatever_54, Willis_210, Yassified_206, YemiJoy2021_210, YoungMoneyMata_207, Zeenon_211,

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

- Adlitam_208, Alice_196, ArcherS7_209, Astraea_203, BackyardAgain_204, Bangla1971_209, BeanWater_201, BigCity_218, Bigswole_214, Bread_204, Breeniome_208, Burrough_211, Cali_202, Caravan_200, CharlieB_203, DTDevon_211, Daffodil_214, Dandelion_217, Delylah_211, Derek_206, Dietrick_198, Drazdys_207, ET08_197, EasyJones_212, EggyFarm_218, Erdmann_210, ErnieJ_202, FudgeTart_204, Ghost_209, Gizmo_215, GlutenPhree_209, Grasshills_217, Guwapp_204, I3_219, Issimir_202, JPickles_205, Jaygup_205, Jedediah_209, Jemmno_208, JulietS_202, Koguma_208, LRRHood_202, LifeSavor_208, LinStu_208, Littleton_212, Lorelei_55, Lukilu_200, Mangeria_210, McGee_208, Megamind_206, MoMoMixon_207, Nappy_210, Phox_210, Phrappuccino_119, Pier_210, Pinkcreek_193, Pio_217, Pleione_213, Rabinovish_202, Rizal_201, Roots515_211, Salacia_209, Sebata_210, Settecandela_119, Shrimp_211, SilverDipper_213, Tyke_207, Wally_207, Yasdnil_54, Yucca_209, Zalkecks_208, ZygoTaiga_206,

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

- Adjutor_65, Aesir_56, Aikoy_85, Ajin_63, Alephilan_79, Alok_92, Alyssamiracle_81, Amabiko_82, Anakin_57, Anedea_78, Angela_76, AnnaSerena_57, Annadreamy_58,

Annapurna_59, Apeppi_73, Apiary_59, Arti_59, Artiphact_56, Astralis_80, Avian_78, Barnyard_80, Bartholomune_78, Battuta_80, Beckerton_76, Belfort_62, Beted_97, Beuffert_58, Beyoncage_66, BiPauneto_61, BigMama_65, BillNye_56, Birchlyn_79, BirthdayBoy_81, BiteSize_66, BlueOtter_80, Blueeyedbeauty_60, Bmoc_78, Bonum_63, BoomerJR_82, Bordeaux_80, Braelyn_79, Bramble_64, Braxoaddie_59, Buggaboo_61, Butterscotch_65, C3PO_43, Candle_72, Cantare_64, Cborch11_78, CeilingFan_81, ChewyVIII_70, Chidiebere_98, Chill_69, ChisanaKitsune_95, Chivey_58, Circinus_58, CoffeeBean_59, Commandaria_61, Comrade_61, CoolCookie_56, Crestdrop_57, Cross_80, Cruella_43, Cursive_78, Cybele_57, DalanDe_85, Dalilpop_64, Damien_77, DannyDe_58, Darwin_47, Daubenski_81, Dauntless_56, DaviePasture_79, Delton_67, Djokovic_66, DoobyDoo_78, Dorin_77, DrLupo_85, Dryad_56, DumpTruck_80, EGole_81, Elmer_84, Emianna_60, Emma1919_62, EmoNemo_92, Ennea_66, Enygma_82, Erk16_66, Erudite_56, Erutan_79, Evy_80, Faust_61, Finch_77, Flapper_64, Float294_60, FlyingTortilla_98, Forrest_62, Foxboro_61, Francesca_77, Francob_59, FreddieHg_58, Fulcrum_78, Fury_67, GMA6_80, GOATification_78, GRU1_49, GTE5_49, GTE8_48, Genamy16_81, Genie2_82, Gibbi_86, Gibbin_81, Gibson_51, Gilda_57, Gilson_61, Giuseppe_68, Gray_98, Greely_198, Greenbelt_76, GretelLyn_79, GrootJr_62, Gumball_66, GuyFagieri_58, Hager_58, Hanem_97, HangryHippo_80, Haunter_57, Hawkeye_75, Helpful_70, Hiddenleaf_58, HubbaBubba_55, IDyn_59, IchabodCrane_79, Indlulamithi_76, JDawG_56, Jada_60, Jalebi_78, Jamemuya19_79, Jay2Jay_84, JeanGrey_95, Jifall16_59, JimJam_82, JingleBells_57, Jollison_81, Kabluna_63, Kabocha_99, KandZ_65, Karate_56, Karimac_81, Karp_59, Kate_57, Kenrey_62, KentuckyRacer_82, KidneyBean_60, Kimchi1738_43, Konstantine_80, Kors_64, Krampus_57, Kurt_60, Labelle_90, Lambo_77, Larnav_80, LavAbarElk_78, Lenoshki_97, Leo04_81, Leopard_84, Liandry_78, Lika_54, LilMartin_77, Lila22_79, LilyPad_66, Limpid_57, LittleFella_70, Lizz_51, Lollipop1437_64, LordBart_63, LuckyLeo_75, LukeCage_81, Lululemon_79, MacGully_67, Madi_65, Madrugua_89, Marietta_61, Marsus_78, Maselop_59, MeganTheeKilla_59, Megatron06_78, MerCougar_61, Mildred21_78, Mima20_79, MindFlayer_79, MintFritos_93, Moab_61, MoiGyank_82, MontyDev_76, Mopey_68, MortySmith_55, Mugiwara_83, MulchMansion_77, Muntaha_58, Myrna_192, NadineRae_59, NarutoRun_57, NatB6_60, Navo_77, Neptune_57, NiceHouse_90, Nilo_76, NootNoot_75, NorManre_84, NosilaM_62, Nova53_75, NovaSharks_80, Nova_66, NovumRegina_60, Oaker_77, Onyinye_84, Oogie_96, OtterstedtS21_79, Outis_61, OverHedge_56, PBI1_63, PHTowN_51, PLOT_66, PacManQ_79, Pakusa_93, Papyrus_74, Paradiddles_75, ParvusTarda_77, Patelgo_60, Patience_91, Patio_62, Patos_84, Peebs_79, Penelope2018_67, Pepperwood_80, Persimmon_77, PeteyPab_45, Phabba_203, Phalaborwa_70, Pharpay_56, Phomeo_59, Phredrick_60, Phreeze_76, PhunaPhoke_57, PinkiePie_78, Pleakley_67, Polyyuki_59, PotatoChip_46, Potty_56, Poultruss_56, Prager_67, Predator_76, Puissant_78, PumpkinSpice_81, Quarant19_81, Rachella_57, Rana_55, Ranch_80, RazorC_79, RedRaider_67, RedWattleHog_79, Rie18_57, RikSengupta_63, Rikishi_84, Riparian_76, Riptide_77, Rooney_51, Rope_74, Rumi_79, Sadboi_79, SaltySpittoon_81, Samisti12_80, Sampudon_80, ScarletRaider_99, Scheme_81, Schomber_96, ScoobyDoobyDoo_190, Scuba_68, Send513_74, SeresaTree_61, ShakeNBake_51, Sham_57, Shuckle_78, Sienna_66, SilentWarrior_58, SirHarley_69, Skysand_61, Snakehole_58, Sollertia_82, Sparcetus_63, SparkleGoddess_61, Spelly_82, Spilled_83, Squillium_79, Stanimal_82, StarPlatinum_82, StarStruck_61, Starbow_80, Stickynote_45, Stigma_60, Stormageddon_76, Stormer_79, Sukkupi_60, SuperSulley_61, Sushi23_79, Suzy_65, Targaryen_80, Tedro_57, Terapin_67, Teutsch_80, Thoth_67, Thumb_78, Tillicus_73, TinyMiny_63, TomSawyer_80, Tomas_84, Tonenili_231,

Toneprano_95, Tongui_58, Tracker_60, Tribute_78, Troll4_66, TunaTartare_59, Turuncu_63, Twin_92, UBSmoodge_101, Visconti_68, Wakanda_57, WaldoWhy_69, Warpy_83, Watermoore_80, Weiss13_74, Wentworth_52, Westy_58, Wheezy_60, WhereRU_77, WhoseManz_60, Wilkos_53, Wipeout_79, Wofford_81, Wojtek_72, Wollypog_59, Xenia2_80, Yaboi_82, Yara_46, Yelo_73, Yikes_80, Yndexa_60, Zany_76, Zemlya_55, Zenon_76, Zion_46,

Summary by start number:

Start 18:

- Found in 20 of 613 (3.3%) of genes in pham
- Manual Annotations of this start: 5 of 536
- Called 25.0% of time when present
- Phage (with cluster) where this start called: CharlieB_203 (C1), ET08_197 (C1), Issimir_202 (C1), LRRHood_202 (C1), Lukilu_200 (C1),

Start 23:

- Found in 197 of 613 (32.1%) of genes in pham
- Manual Annotations of this start: 44 of 536
- Called 22.3% of time when present
- Phage (with cluster) where this start called: ArcherS7_209 (C1), Astraea_203 (C1), BackyardAgain_204 (C1), Bangla1971_209 (C1), Bread_204 (C1), Breeniome_208 (C1), Burrough_211 (C1), Caravan_200 (C1), DTDevon_211 (C1), Daffodil_214 (C1), Dandelion_217 (C1), Delylah_211 (C1), Derek_206 (C1), Drazdys_207 (C1), EasyJones_212 (C1), Erdmann_210 (C1), ErnieJ_202 (C1), FudgeTart_204 (C1), Gizmo_215 (C1), Guwapp_204 (C1), I3_219 (C1), JPickles_205 (C1), Jedediah_209 (C1), Koguma_208 (C1), LifeSavor_208 (C1), Littleton_212 (C1), Mangeria_210 (C1), McGee_208 (C1), Megamind_206 (C1), Nappy_210 (C1), Phox_210 (C1), Pinkcreek_193 (C1), Pio_217 (C1), Rabinovish_202 (C1), Rizal_201 (C1), Roots515_211 (C1), Salacia_209 (C1), Shrimp_211 (C1), SilverDipper_213 (C1), Tyke_207 (C1), Wally_207 (C1), Yucca_209 (C1), Zalkecks_208 (C1), ZygoTaiga_206 (C1),

Start 25:

- Found in 197 of 613 (32.1%) of genes in pham
- Manual Annotations of this start: 6 of 536
- Called 3.0% of time when present
- Phage (with cluster) where this start called: Alice_196 (C1), Cali_202 (C1), Ghost_209 (C1), MoMoMixon_207 (C1), Pleione_213 (C1), Sebata_210 (C1),

Start 26:

- Found in 23 of 613 (3.8%) of genes in pham
- Manual Annotations of this start: 20 of 536
- Called 91.3% of time when present
- Phage (with cluster) where this start called: Adjutor_65 (D1), BigMama_65 (D1), Butterscotch_65 (D1), Chill_69 (D1), Delton_67 (D1), Erk16_66 (D1), Giuseppe_68 (D1), Gumball_66 (D1), Hawkeye_75 (D2), Helpful_70 (D1), KandZ_65 (D1), Mopey_68 (D1), Nova_66 (D1), Penelope2018_67 (D1), Phalaborwa_70 (D1), Prager_67 (D1), SirHarley_69 (D1), Thoth_67 (D1), Troll4_66 (D1), Visconti_68 (D1), WaldoWhy_69 (D1),

Start 28:

- Found in 1 of 613 (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: GMA6_80 (DQ),

Start 32:

- Found in 230 of 613 (37.5%) of genes in pham
- Manual Annotations of this start: 9 of 536
- Called 6.1% of time when present
- Phage (with cluster) where this start called: Adlitam_208 (C1), BeanWater_201 (C1), BigCity_218 (C1), Bigswole_214 (C1), Dietrick_198 (C1), EggyFarm_218 (C1), GlutenPhree_209 (C1), Grasshills_217 (C1), Jaygup_205 (C1), Jemmno_208 (C1), JulietS_202 (C1), LinStu_208 (C1), Lorelei_55 (BD1), Pier_210 (C1),

Start 37:

- Found in 6 of 613 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 536
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Fury_67 (CR5), Pleakley_67 (CR5), Scuba_68 (CR5),

Start 40:

- Found in 2 of 613 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 536
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_119 (AA), Settecandela_119 (AA),

Start 46:

- Found in 16 of 613 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 18.8% of time when present
- Phage (with cluster) where this start called: Chidiebere_98 (DQ), Pakusa_93 (DQ), Twin_92 (DQ),

Start 50:

- Found in 10 of 613 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Oaker_77 (H1),

Start 51:

- Found in 18 of 613 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 536
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Cantare_64 (singleton), DalanDe_85 (DQ),

Start 52:

- Found in 5 of 613 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 20.0% of time when present
- Phage (with cluster) where this start called: DrLupo_85 (H2),

Start 53:

- Found in 1 of 613 (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: JeanGrey_95 (singleton),

Start 54:

- Found in 18 of 613 (2.9%) of genes in pham
- Manual Annotations of this start: 8 of 536
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Alok_i_92 (DQ), Beted_97 (DQ), ChisanaKitsune_95 (DQ), EmoNemo_92 (DQ), FlyingTortilla_98 (DQ), Gray_98 (DQ), Hanem_97 (DQ), Kabocha_99 (DQ), Lenoshki_97 (DQ), MintFritos_93 (DQ), Oogie_96 (DQ), ScarletRaider_99 (DQ), Schomber_96 (DQ), Toneprano_95 (DQ), UBSmoodge_101 (DQ),

Start 58:

- Found in 9 of 613 (1.5%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Wilkos_53 (BN),

Start 59:

- Found in 4 of 613 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 536
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_198 (C2), Myrna_192 (C2), Phabba_203 (C2), ScoobyDoobyDoo_190 (C2),

Start 60:

- Found in 1 of 613 (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: Nova53_75 (CG),

Start 61:

- Found in 22 of 613 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Indlulamithi_76 (AC),

Start 64:

- Found in 3 of 613 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 536
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Dorin_77 (CG), Francesca_77 (CG),

Start 66:

- Found in 260 of 613 (42.4%) of genes in pham
- Manual Annotations of this start: 166 of 536
- Called 72.3% of time when present
- Phage (with cluster) where this start called: Aaronocolus_53 (BD1), Ablatia_207 (C1), Ading_210 (C1), Amataga_210 (C1), Asten_54 (BD1), Asterius_211 (C1),

Atlantean_209 (C1), Audrick_211 (C1), Ava3_208 (C1), Babyland_212 (C1), BadAgartude_203 (C1), BananaFence_206 (C1), BarryBee_57 (BD1), Basquiat_206 (C1), BeardedLady_53 (BD1), Belieber_202 (C1), Bipolarisk_207 (C1), Blackbrain_206 (C1), Blackdragon_204 (C1), Blubba_198 (C1), Bonray_211 (C1), Bovely_53 (BD1), Brataylor_57 (BD1), BryanRecycles_55 (BD1), Bxz1_199 (C1), Cactojaque_204 (C1), Caliburn_52 (BD1), Cane17_200 (C1), Capablanca_214 (C1), Catera_201 (C1), Celeste_56 (BD1), Celia_53 (BD6), Chargie21_206 (C1), ChaylaJr_206 (C1), CherryTomatoes_154 (DO), ChickenPhender_205 (C1), Chomp_209 (C1), Chucky_54 (BD1), CindyLou_210 (C1), Colt_200 (C1), Concombre_214 (C1), Danzina_56 (BD1), Darko_208 (C1), Dattran_57 (BD1), DeejaClivia_197 (C1), Delilah_207 (C1), Demodog_215 (C1), DirtMonster_202 (C1), Domi_203 (C1), DrPhinkDaddy_206 (C1), Dwayne_54 (BD1), E3_gp154 (singleton), Eddasa_55 (BD1), Ejemplo_52 (BD1), EmToTheThree_209 (C1), Emaanora_57 (BD1), EmmaElysia_212 (C1), EnochSoames_57 (BD1), Esperer_53 (BD1), Essence_206 (C1), Ewok_208 (C1), Flabslab_204 (C1), Fludd_209 (C1), Fongie_210 (C1), FoxtrotP1_207 (C1), FrayBell_212 (C1), Gabriel_212 (C1), Gamgam_210 (C1), Goby_55 (BD1), Godpower_56 (BD1), Grungle_193 (C1), Halldule_202 (C1), Hippo_54 (BD1), HyRo_197 (C1), Hydra_54 (BD1), IkeLoa_201 (C1), Indigo_52 (BD1), InigoMontoya_212 (C1), InterFolia_212 (C1), Iota_204 (C1), Itza_54 (BD6), Izajani_207 (C1), Izzy_55 (BD1), Janiyra_212 (C1), Jash_55 (BD1), JayJay_211 (C1), Jessibeth14_209 (C1), Jezreel_206 (C1), JigglyPuff_216 (C1), JustHall_203 (C1), Kamryn_208 (C1), Katalie_54 (BD1), Kboogie_213 (C1), Khaleesi_208 (C1), Lannister_54 (BD1), Latch_209 (C1), Lee7_209 (C1), Legacy_52 (BD1), Lethe_211 (C1), Leviticus_53 (BD1), Loanshark_206 (C1), LolaVinca_207 (C1), LordLeafolot_211 (C1), Maby2021_209 (C1), Maneekul_54 (BD1), Matsumoto_208 (C1), McWolfish_206 (C1), Melpomini_204 (C1), MikelLiesIn_211 (C1), Mikro_205 (C1), Momo_210 (C1), Morizzled23_206 (C1), Nabi_55 (BD1), Naija_210 (C1), Nanodon_56 (BD1), Napoleon13_206 (C1), Naval22_214 (C1), NedWong_208 (C1), Nerdos_52 (BD1), Ngannou_206 (C1), Nidhogg_210 (C1), NoodleTree_215 (C1), Norm_209 (C1), NuevoMundo_212 (C1), Oliynyk_55 (BD1), Ozzie_52 (BD1), OzzyJ_56 (BD1), ParkTD_208 (C1), Patter_210 (C1), Phettuccine_53 (BD1), Phlegm_213 (C1), Phusco_207 (C1), Pivoine_210 (C1), Primadonna_204 (C1), Pupper_153 (DO), PurduePete_209 (C1), QBert_201 (C1), Quasimodo_211 (C1), Rahel_210 (C1), RedBear_55 (BD1), RoMag_204 (C1), Ronan_205 (C1), Rusticus_55 (BD1), SCentae_152 (DO), SVoro_206 (C1), SarahRose_54 (BD1), Sauce_205 (C1), ScottMcG_202 (C1), Shaqnato_200 (C1), Shelob_210 (C1), ShiaLabeouf_206 (C1), Shifa_186 (C1), Shnickers_207 (C1), Skog_212 (DO), SmallFry_209 (C1), Snorlax_54 (BD1), South40_54 (BD1), Spec_204 (C1), Specks_213 (C1), Sprinklers_207 (C1), Spud_203 (C1), SrishMeg2525_206 (C1), StephanieG_205 (C1), StubbySaigey_214 (C1), Stubby_193 (C1), Sujidade_55 (BD1), SunsetPointe_52 (BD1), TagePhighter_56 (BD1), Tainan_210 (C1), Teardrop_206 (C1), TinyTim_207 (C1), Toma_55 (BD1), Tortoise16_207 (C1), Trinitium_205 (C1), Triste_55 (BD1), TuanPN_52 (BD1), Turret_202 (C1), Unstoppable_53 (BD1), Urza_53 (BD6), ValleyTerrace_210 (C1), VieEnRose_54 (BD6), Werner_54 (BD1), Whatever_54 (BD1), Willis_210 (C1), Yassified_206 (C1), YemiJoy2021_210 (C1), YoungMoneyMata_207 (C1), Zeenon_211 (C1),

Start 67:

- Found in 33 of 613 (5.4%) of genes in pham
- Manual Annotations of this start: 30 of 536
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amabiko_82 (BE2), Battuta_80 (BE2), Birchlyn_79 (BE2), BoomerJR_82 (BE2), Bordeaux_80 (BE2), CeilingFan_81 (BE2),

Elmer_84 (BE2), Enygma_82 (BE2), Genie2_82 (BE2), Gibbi_86 (BE2), IchabodCrane_79 (BE2), JimJam_82 (BE2), Jollison_81 (BE2), Karimac_81 (BE2), KentuckyRacer_82 (BE2), LukeCage_81 (BE2), MindFlayer_79 (BE2), Mugiwara_83 (BE2), PumpkinSpice_81 (BE2), Quarant19_81 (BE2), Rikishi_84 (BE2), SaltySpittoon_81 (BE2), Sollertia_82 (BE2), Spelly_82 (BE2), Spilled_83 (BE2), Stanimal_82 (BE2), StarPlatinum_82 (BE2), Starbow_80 (BE2), TomSawyer_80 (BE2), Tomas_84 (BE2), Wipeout_79 (BE2), Wofford_81 (BE2), Yaboi_82 (BE2),

Start 68:

- Found in 72 of 613 (11.7%) of genes in pham
- Manual Annotations of this start: 63 of 536
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Anedea_78 (BE1), Angela_76 (BE1), Annadreamy_58 (BK1), Bartholomune_78 (BE1), Belfort_62 (BK1), Beuffert_58 (BK1), BillNye_56 (BK2), BlueOtter_80 (BE1), Bmoc_78 (BE1), Braelyn_79 (BE1), Circinus_58 (BK2), Comrade_61 (BK1), Cross_80 (BE1), Cursive_78 (BE1), Daubenski_81 (BE1), EGole_81 (BE1), Emma1919_62 (BK1), Evy_80 (BE1), Faust_61 (BK1), Forrest_62 (BK1), Francob_59 (BK1), Gilson_61 (BK1), HangryHippo_80 (BE1), Jada_60 (BK1), Jay2Jay_84 (BE1), Karp_59 (BK1), Kenrey_62 (BK1), Larnav_80 (BE1), Leo04_81 (BE1), Liandry_78 (BE1), LilMartin_77 (BE1), Limpid_57 (BK1), Lululemon_79 (BE1), Marsus_78 (BE1), MeganTheeKilla_59 (BK1), Mildred21_78 (BE1), Moab_61 (BK1), MulchMansion_77 (BE1), Muntaha_58 (BK2), Navo_77 (BE1), NootNoot_75 (BE1), PacManQ_79 (BE1), Paradiddles_75 (BE1), Patelgo_60 (BK1), Peebs_79 (BE1), Pepperwood_80 (BE1), Persimmon_77 (BE1), Phredrick_60 (BK1), PinkiePie_78 (BE1), Riptide_77 (BE1), Samisti12_80 (BE1), Scheme_81 (BE1), SeresaTree_61 (BK1), Sham_57 (BK1), Shuckle_78 (BE1), SparkleGoddess_61 (BK1), Squillium_79 (BE1), Stigma_60 (BK1), Sushi23_79 (BE1), Targaryen_80 (BE1), Teutsch_80 (BE1), Tonenili_231 (C1), Tribute_78 (BE1), TunaTartare_59 (BK1), Wakanda_57 (BK2), Warpy_83 (BE1), Watermoore_80 (BE1), Westy_58 (BK1), WhereRU_77 (BE1),

Start 69:

- Found in 29 of 613 (4.7%) of genes in pham
- Manual Annotations of this start: 20 of 536
- Called 89.7% of time when present
- Phage (with cluster) where this start called: Alyssmiracle_81 (DV), Apeppi_73 (DV), Astralis_80 (DV), Avian_78 (DV), BirthdayBoy_81 (DV), DaviePasture_79 (DV), DumpTruck_80 (DV), Fulcrum_78 (DV), GOATification_78 (DV), Gibbin_81 (DV), GretelLyn_79 (DV), Jalebi_78 (DV), Jamemuya19_79 (DV), Lambo_77 (DV), LavAbarElk_78 (DV), Lila22_79 (DV), LuckyLeo_75 (DV), MoiGyank_82 (DV), ParvusTarda_77 (DV), RazorC_79 (DV), Rumi_79 (DV), Sadboi_79 (DV), Sampudon_80 (DV), Stormer_79 (DV), Yikes_80 (DV), Zany_76 (DV),

Start 70:

- Found in 5 of 613 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 536
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Rana_55 (BD1), RedWattleHog_79 (DX), Stormageddon_76 (DX), Zemlya_55 (BD1),

Start 71:

- Found in 5 of 613 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 536

- Called 40.0% of time when present
- Phage (with cluster) where this start called: Finch_77 (singleton), NiceHouse_90 (CE),

Start 72:

- Found in 107 of 613 (17.5%) of genes in pham
- Manual Annotations of this start: 72 of 536
- Called 72.0% of time when present
- Phage (with cluster) where this start called: Apiary_59 (CR), Arti_59 (CR2), Barnyard_80 (H2), Beckerton_76 (H1), BiPauneto_61 (CR4), Bonum_63 (CR2), Braxoaddie_59 (CR), Buggaboo_61 (CR2), C3PO_43 (EN), Cborch11_78 (H1), CoffeeBean_59 (CR), Commandaria_61 (CR2), Cruella_43 (EN), Dalilpop_64 (CR1), Darwin_47 (EN), Dryad_56 (BN), Emianna_60 (CR2), Ennea_66 (CR3), Flapper_64 (CR1), Float294_60 (CR3), Foxboro_61 (CR2), GTE5_49 (CR1), GTE8_48 (CR2), Gibson_51 (BN), Greenbelt_76 (BN), GrootJr_62 (CR2), GuyFagieri_58 (CR), HubbaBubba_55 (CR4), IDyn_59 (CR4), Jifall16_59 (CR2), Kabluna_63 (CR2), KidneyBean_60 (CR2), Kimchi1738_43 (EN), Konstantine_80 (H1), Kurt_60 (CR2), Labelle_90 (U), Lika_54 (BD1), Lizz_51 (BN), Lollipop1437_64 (CR3), Madrugua_89 (U), Marietta_61 (CR4), Maselop_59 (CR), Megatron06_78 (H1), MerCougar_61 (CR2), NadineRae_59 (CR4), NatB6_60 (CR2), NosilaM_62 (CR2), NovumRegina_60 (CR2), Outis_61 (CR2), PBI1_63 (D1), PHTowN_51 (BN), PLOT_66 (D1), Patience_91 (U), Patio_62 (CR3), PeteyPab_45 (EN), Phomeo_59 (CR2), Phreeze_76 (H1), Polyuyuki_59 (CR), PotatoChip_46 (EN), Predator_76 (H1), RedRaider_67 (CR3), Rooney_51 (BN), ShakeNBake_51 (BN), Skysand_61 (CR3), StarStruck_61 (CR2), Stickynote_45 (EN), Sukkupi_60 (CR4), SuperSulley_61 (CR2), Thumb_78 (H1), Tracker_60 (CR2), Turuncu_63 (CR1), Wentworth_52 (BN), Wheezy_60 (CR2), WhoseManz_60 (CR4), Yara_46 (BN), Yndexa_60 (CR4), Zion_46 (EN),

Start 76:

- Found in 5 of 613 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 536
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Erutan_79 (DV), NorManre_84 (DV), Patos_84 (DV), Ranch_80 (DV),

Start 81:

- Found in 67 of 613 (10.9%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 3.0% of time when present
- Phage (with cluster) where this start called: Alephilan_79 (DV), Yasdnil_54 (BD1),

Start 84:

- Found in 136 of 613 (22.2%) of genes in pham
- No Manual Annotations of this start.
- Called 0.7% of time when present
- Phage (with cluster) where this start called: Tillicus_73 (DV),

Start 89:

- Found in 272 of 613 (44.4%) of genes in pham
- Manual Annotations of this start: 8 of 536
- Called 3.7% of time when present

- Phage (with cluster) where this start called: Blueeyedbeauty_60 (BK1), Damien_77 (H1), DoobyDoo_78 (DV), GRU1_49 (CR1), Genamy16_81 (DV), Mima20_79 (DV), NovaSharks_80 (DV), OtterstedtS21_79 (DV), Wojtek_72 (DV), Xenia2_80 (DV),

Start 233:

- Found in 87 of 613 (14.2%) of genes in pham
- No Manual Annotations of this start.
- Called 1.1% of time when present
- Phage (with cluster) where this start called: Puissant_78 (H1),

Start 285:

- Found in 13 of 613 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 536
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Aikoy_85 (AE), Leopard_84 (AE), Onyinye_84 (AE),

Start 287:

- Found in 45 of 613 (7.3%) of genes in pham
- Manual Annotations of this start: 29 of 536
- Called 75.6% of time when present
- Phage (with cluster) where this start called: Aesir_56 (EF), Anakin_57 (EF), AnnaSerena_57 (EF), Annapurna_59 (EF), Artiphact_56 (EF), Chivey_58 (EF), CoolCookie_56 (EF), Crestdrop_57 (EF), Cybele_57 (EF), DannyDe_58 (EF), Dauntless_56 (EF), Erudite_56 (EF), FreddieHg_58 (EF), Gilda_57 (EF), Haunter_57 (EF), Hiddenleaf_58 (EF), JDawG_56 (EF), JingleBells_57 (EF), Karate_56 (EF), Kate_57 (EF), Krampus_57 (EF), MortySmith_55 (EF), NarutoRun_57 (EF), Neptune_57 (EF), OverHedge_56 (EF), Pharpay_56 (EF), PhunaPhoke_57 (EF), Potty_56 (EF), Poultruss_56 (EF), Rachella_57 (EF), SilentWarrior_58 (EF), Snakehole_58 (EF), Tedro_57 (EF), Tongui_58 (EF),

Start 290:

- Found in 106 of 613 (17.3%) of genes in pham
- Manual Annotations of this start: 6 of 536
- Called 8.5% of time when present
- Phage (with cluster) where this start called: Ajin_63 (EF), Bramble_64 (EF), Hager_58 (EF), Kors_64 (EF), LordBart_63 (EF), Rie18_57 (EF), RikSengupta_63 (EF), Sparcetus_63 (EF), TinyMiny_63 (EF),

Start 292:

- Found in 234 of 613 (38.2%) of genes in pham
- Manual Annotations of this start: 9 of 536
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Candle_72 (R), MontyDev_76 (R), Nilo_76 (R), Papyrus_74 (R), Riparian_76 (R), Rope_74 (R), Send513_74 (R), Weiss13_74 (R), Yelo_73 (R), Zenon_76 (R),

Start 302:

- Found in 1 of 613 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MacGully_67 (CR),

Start 303:

- Found in 2 of 613 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 50.0% of time when present
- Phage (with cluster) where this start called: LittleFella_70 (DG2),

Start 305:

- Found in 1 of 613 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_70 (singleton),

Start 307:

- Found in 47 of 613 (7.7%) of genes in pham
- Manual Annotations of this start: 8 of 536
- Called 17.0% of time when present
- Phage (with cluster) where this start called: Beyoncage_66 (DG1), BiteSize_66 (DG1), Djokovic_66 (DG1), LilyPad_66 (DG1), Madi_65 (DG1), Sienna_66 (DG1), Suzy_65 (DG1), Terapin_67 (DG1),

Start 315:

- Found in 5 of 613 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 536
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Wollypog_59 (singleton),

Summary by clusters:

There are 35 clusters represented in this pham: DO, singleton, BN, DX, DV, DQ, BD6, BD1, C2, C1, AA, AC, EN, AE, EF, CG, CE, DG2, DG1, U, BK1, BK2, CR, CR2, CR3, CR1, CR4, CR5, H2, H1, R, BE2, BE1, D2, D1,

Info for manual annotations of cluster AA:

- Start number 40 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:

- Start number 61 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:

- Start number 285 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster BD1:

- Start number 32 was manually annotated 1 time for cluster BD1.
- Start number 66 was manually annotated 50 times for cluster BD1.
- Start number 70 was manually annotated 2 times for cluster BD1.
- Start number 72 was manually annotated 1 time for cluster BD1.
- Start number 81 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD6:

- Start number 66 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BE1:

- Start number 68 was manually annotated 37 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 67 was manually annotated 30 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 68 was manually annotated 21 times for cluster BK1.
- Start number 89 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 68 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster BN:

- Start number 72 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster C1:

- Start number 18 was manually annotated 5 times for cluster C1.
- Start number 23 was manually annotated 44 times for cluster C1.
- Start number 25 was manually annotated 6 times for cluster C1.
- Start number 32 was manually annotated 8 times for cluster C1.
- Start number 66 was manually annotated 108 times for cluster C1.
- Start number 68 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 59 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CE:

- Start number 71 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:

- Start number 64 was manually annotated 2 times for cluster CG.

Info for manual annotations of cluster CR:

- Start number 72 was manually annotated 6 times for cluster CR.
- Start number 302 was manually annotated 1 time for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 72 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 72 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 72 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 72 was manually annotated 8 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 37 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster D1:

- Start number 26 was manually annotated 19 times for cluster D1.
- Start number 72 was manually annotated 2 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 26 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DG1:

- Start number 307 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 303 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DO:

- Start number 66 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DQ:

- Start number 46 was manually annotated 1 time for cluster DQ.
- Start number 51 was manually annotated 1 time for cluster DQ.
- Start number 54 was manually annotated 8 times for cluster DQ.

Info for manual annotations of cluster DV:

- Start number 69 was manually annotated 20 times for cluster DV.
- Start number 76 was manually annotated 4 times for cluster DV.
- Start number 89 was manually annotated 6 times for cluster DV.

Info for manual annotations of cluster DX:

- Start number 70 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster EF:

- Start number 287 was manually annotated 29 times for cluster EF.
- Start number 290 was manually annotated 6 times for cluster EF.

Info for manual annotations of cluster EN:

- Start number 72 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster H1:

- Start number 50 was manually annotated 1 time for cluster H1.
- Start number 72 was manually annotated 7 times for cluster H1.
- Start number 89 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster H2:

- Start number 52 was manually annotated 1 time for cluster H2.
- Start number 72 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster R:

- Start number 292 was manually annotated 9 times for cluster R.

Info for manual annotations of cluster U:

- Start number 72 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Aaronocolus_53 Start: 40236, Stop: 36757, Start Num: 66

Candidate Starts for Aaronocolus_53:

(4, 40446), (Start: 66 @40236 has 166 MA's), (83, 40164), (Start: 89 @40137 has 8 MA's), (91, 40122), (126, 39960), (132, 39933), (134, 39927), (156, 39837), (161, 39822), (173, 39768), (174, 39765), (198, 39669), (226, 39591), (255, 39444), (270, 39405), (282, 39360), (Start: 290 @39339 has 6 MA's), (295, 39324), (321, 39282), (326, 39270), (347, 39204), (350, 39192), (365, 39129), (381, 39000), (382, 38991), (388, 38955), (404, 38871), (407, 38853), (422, 38796), (423, 38793), (426, 38781), (469, 38643), (471, 38637), (474, 38622), (476, 38616), (482, 38583), (504, 38505), (514, 38472), (558, 38331), (576, 38274), (580, 38250), (581, 38244), (592, 38175), (602, 38112), (618, 38046), (623, 38025), (630, 38007), (645, 37950), (647, 37941), (675, 37833), (678, 37824), (681, 37812), (684, 37791), (697, 37761), (706, 37734), (731, 37668), (733, 37659), (737, 37647), (765, 37560), (776, 37536), (792, 37488), (833, 37344), (855, 37269), (905, 37095), (914, 37059), (928, 37011), (936, 36978),

Gene: Ablatia_207 Start: 113334, Stop: 116729, Start Num: 66

Candidate Starts for Ablatia_207:

(Start: 23 @113241 has 44 MA's), (Start: 25 @113247 has 6 MA's), (Start: 32 @113259 has 9 MA's), (38, 113268), (Start: 66 @113334 has 166 MA's), (83, 113409), (104, 113523), (112, 113547), (133, 113607), (162, 113718), (170, 113757), (177, 113781), (185, 113823), (211, 113922), (221, 113964), (227, 113982), (237, 114045), (251, 114105), (252, 114108), (259, 114135), (272, 114177), (Start: 292 @114240 has 9 MA's), (344, 114360), (351, 114396), (356, 114414), (359, 114429), (373, 114546), (379, 114585), (395, 114705), (403, 114747), (413, 114792), (415, 114801), (428, 114852), (441, 114894), (461, 114960), (464, 114969), (465, 114972), (467, 114978), (468, 114981), (469, 114990), (471, 114996), (474, 115011), (499, 115098), (530, 115203), (541, 115257), (556, 115344), (562, 115374), (572, 115404), (579, 115437), (581, 115446), (592, 115518), (596, 115548), (622, 115665), (632, 115710), (643, 115752), (680, 115896), (702, 115956), (738, 116058), (770, 116145), (772, 116148), (779, 116166), (791, 116202), (792, 116205), (813, 116265), (818, 116283), (851, 116379), (858, 116409), (864, 116427), (876, 116457), (911, 116550), (914, 116565), (939, 116646), (940, 116652), (944, 116664),

Gene: Ading_210 Start: 113961, Stop: 117356, Start Num: 66

Candidate Starts for Ading_210:

(Start: 23 @113868 has 44 MA's), (Start: 25 @113874 has 6 MA's), (Start: 32 @113886 has 9 MA's), (38, 113895), (Start: 66 @113961 has 166 MA's), (83, 114036), (104, 114150), (112, 114174), (133, 114234), (162, 114345), (170, 114384), (177, 114408), (185, 114450), (211, 114549), (221, 114591), (222, 114597), (227, 114609), (237, 114672), (251, 114732), (252, 114735), (259, 114762), (272, 114804), (Start: 292 @114867 has 9 MA's), (344, 114987), (351, 115023), (356, 115041), (359, 115056), (373, 115173), (379, 115212), (395, 115332), (403, 115374), (413, 115419), (415, 115428), (428, 115479), (441, 115521), (461, 115587), (464, 115596), (465, 115599), (467, 115605), (468, 115608), (469, 115617), (471, 115623), (474, 115638), (499, 115725), (530, 115830), (541, 115884), (556, 115971), (562, 116001), (572, 116031), (579, 116064), (581, 116073), (592, 116145), (596, 116175), (622, 116292), (632, 116337), (643, 116379), (680, 116523), (702, 116583), (738, 116685), (770, 116772), (772, 116775), (779, 116793), (791, 116829), (792, 116832), (813, 116892), (818, 116910), (851, 117006), (858, 117036), (864, 117054), (876, 117084), (911, 117177), (914, 117192), (939, 117273), (940, 117279), (944, 117291),

Gene: Adjutor_65 Start: 49699, Stop: 53001, Start Num: 26

Candidate Starts for Adjutor_65:

(Start: 26 @49699 has 20 MA's), (Start: 61 @49786 has 1 MA's), (65, 49792), (Start: 72 @49801 has 72 MA's), (Start: 89 @49897 has 8 MA's), (127, 50053), (151, 50140), (152, 50143), (163, 50194), (233, 50458), (240, 50497), (258, 50569), (261, 50578), (283, 50653), (308, 50719), (309, 50725), (329, 50779), (338, 50797), (347, 50848), (348, 50851), (355, 50881), (371, 50965), (372, 50974), (376, 51001), (378, 51016), (405, 51193), (407, 51202), (435, 51307), (469, 51388), (482, 51448), (502, 51523), (508, 51556), (512, 51562), (526, 51583), (530, 51592), (543, 51637), (560, 51706),

(565, 51721), (582, 51790), (592, 51853), (600, 51886), (601, 51889), (612, 51940), (631, 52015), (666, 52138), (671, 52156), (691, 52234), (692, 52237), (695, 52249), (710, 52294), (721, 52315), (724, 52327), (733, 52357), (740, 52378), (801, 52450), (829, 52507), (860, 52606), (882, 52672), (906, 52762), (917, 52795), (927, 52825), (938, 52870), (951, 52912), (961, 52942), (964, 52954), (969, 52969), (971, 52978),

Gene: Adlitam_208 Start: 112490, Stop: 115960, Start Num: 32

Candidate Starts for Adlitam_208:

(Start: 23 @112472 has 44 MA's), (Start: 25 @112478 has 6 MA's), (Start: 32 @112490 has 9 MA's), (38, 112499), (Start: 66 @112565 has 166 MA's), (83, 112640), (104, 112754), (112, 112778), (133, 112838), (162, 112949), (170, 112988), (177, 113012), (185, 113054), (211, 113153), (221, 113195), (222, 113201), (227, 113213), (237, 113276), (251, 113336), (252, 113339), (259, 113366), (272, 113408), (Start: 292 @113471 has 9 MA's), (344, 113591), (351, 113627), (356, 113645), (359, 113660), (373, 113777), (379, 113816), (395, 113936), (403, 113978), (413, 114023), (415, 114032), (428, 114083), (441, 114125), (461, 114191), (464, 114200), (465, 114203), (467, 114209), (468, 114212), (469, 114221), (471, 114227), (474, 114242), (499, 114329), (530, 114434), (541, 114488), (556, 114575), (562, 114605), (572, 114635), (579, 114668), (581, 114677), (592, 114749), (596, 114779), (622, 114896), (632, 114941), (643, 114983), (680, 115127), (702, 115187), (738, 115289), (770, 115376), (772, 115379), (779, 115397), (791, 115433), (792, 115436), (813, 115496), (818, 115514), (851, 115610), (858, 115640), (864, 115658), (876, 115688), (911, 115781), (914, 115796), (939, 115877), (940, 115883), (944, 115895),

Gene: Aesir_56 Start: 40899, Stop: 43199, Start Num: 287

Candidate Starts for Aesir_56:

(260, 40809), (Start: 287 @40899 has 29 MA's), (Start: 290 @40905 has 6 MA's), (324, 40980), (344, 41052), (348, 41073), (356, 41106), (357, 41109), (358, 41118), (361, 41139), (364, 41145), (375, 41214), (378, 41238), (381, 41277), (391, 41334), (405, 41415), (435, 41529), (440, 41541), (455, 41571), (471, 41616), (475, 41634), (493, 41712), (496, 41718), (498, 41727), (503, 41760), (508, 41790), (512, 41796), (526, 41817), (530, 41826), (538, 41856), (558, 41931), (560, 41940), (571, 41970), (575, 41985), (592, 42087), (608, 42159), (614, 42183), (635, 42267), (663, 42357), (666, 42369), (671, 42387), (688, 42471), (692, 42480), (702, 42513), (729, 42585), (840, 42765), (850, 42795), (868, 42858), (892, 42930), (929, 43053), (938, 43086), (953, 43131), (966, 43176), (969, 43182),

Gene: Aikoy_85 Start: 57850, Stop: 60138, Start Num: 285

Candidate Starts for Aikoy_85:

(Start: 285 @57850 has 3 MA's), (304, 57883), (306, 57889), (338, 57979), (344, 58012), (349, 58036), (355, 58063), (371, 58147), (372, 58156), (373, 58159), (378, 58198), (379, 58201), (383, 58252), (397, 58330), (399, 58342), (469, 58570), (474, 58591), (491, 58654), (496, 58666), (508, 58738), (512, 58744), (528, 58768), (530, 58774), (535, 58789), (538, 58804), (544, 58822), (552, 58846), (560, 58888), (573, 58927), (580, 58960), (612, 59122), (614, 59131), (648, 59266), (660, 59293), (671, 59338), (701, 59452), (724, 59512), (849, 59728), (880, 59815), (881, 59818), (893, 59860), (939, 60025), (948, 60055), (963, 60103), (966, 60115), (971, 60130),

Gene: Ajin_63 Start: 42544, Stop: 44799, Start Num: 290

Candidate Starts for Ajin_63:

(Start: 285 @42535 has 3 MA's), (Start: 290 @42544 has 6 MA's), (348, 42679), (356, 42712), (359, 42727), (376, 42829), (378, 42844), (391, 42940), (405, 43021), (407, 43030), (435, 43135), (471, 43222), (475, 43240), (487, 43291), (489, 43303), (493, 43318), (498, 43333), (503, 43366), (508, 43396), (512, 43402), (526, 43423), (530, 43432), (538, 43462), (559, 43543), (564, 43558), (571, 43576), (575, 43591), (590, 43690), (648, 43921), (666, 43975), (671, 43993), (673, 44005), (688, 44077), (692, 44086), (801, 44275), (802, 44278), (817, 44296), (828, 44329), (842, 44374), (860, 44437), (868, 44461), (879, 44491), (904, 44581), (929, 44653), (938, 44686), (953, 44731), (964,

44767), (966, 44776), (969, 44782),

Gene: Alephilan_79 Start: 52529, Stop: 55810, Start Num: 81

Candidate Starts for Alephilan_79:

(Start: 81 @52529 has 1 MA's), (Start: 89 @52565 has 8 MA's), (94, 52610), (104, 52652), (173, 52913), (204, 53015), (213, 53048), (233, 53144), (304, 53414), (Start: 307 @53423 has 8 MA's), (338, 53531), (346, 53576), (356, 53618), (378, 53750), (379, 53753), (380, 53783), (395, 53873), (405, 53927), (430, 54026), (435, 54041), (455, 54083), (502, 54257), (508, 54290), (521, 54308), (530, 54326), (543, 54371), (544, 54374), (571, 54470), (580, 54512), (582, 54524), (587, 54560), (629, 54740), (640, 54782), (648, 54818), (666, 54872), (671, 54890), (692, 54986), (695, 54998), (794, 55187), (829, 55277), (862, 55382), (867, 55397), (873, 55412), (879, 55433), (882, 55445), (884, 55451), (885, 55454), (893, 55481), (903, 55526), (935, 55634), (950, 55679), (958, 55703), (969, 55739),

Gene: Alice_196 Start: 112446, Stop: 115928, Start Num: 25

Candidate Starts for Alice_196:

(Start: 23 @112440 has 44 MA's), (Start: 25 @112446 has 6 MA's), (Start: 32 @112458 has 9 MA's), (38, 112467), (Start: 66 @112533 has 166 MA's), (83, 112608), (104, 112722), (112, 112746), (133, 112806), (162, 112917), (170, 112956), (177, 112980), (185, 113022), (211, 113121), (221, 113163), (222, 113169), (227, 113181), (237, 113244), (251, 113304), (252, 113307), (259, 113334), (272, 113376), (Start: 292 @113439 has 9 MA's), (344, 113559), (351, 113595), (356, 113613), (359, 113628), (373, 113745), (379, 113784), (395, 113904), (403, 113946), (413, 113991), (415, 114000), (428, 114051), (441, 114093), (461, 114159), (464, 114168), (465, 114171), (467, 114177), (468, 114180), (469, 114189), (471, 114195), (474, 114210), (499, 114297), (530, 114402), (541, 114456), (556, 114543), (562, 114573), (572, 114603), (579, 114636), (581, 114645), (592, 114717), (596, 114747), (622, 114864), (632, 114909), (643, 114951), (680, 115095), (702, 115155), (738, 115257), (770, 115344), (772, 115347), (779, 115365), (791, 115401), (792, 115404), (813, 115464), (818, 115482), (851, 115578), (858, 115608), (864, 115626), (876, 115656), (911, 115749), (914, 115764), (939, 115845), (940, 115851), (944, 115863),

Gene: Alok_i_92 Start: 70036, Stop: 72849, Start Num: 54

Candidate Starts for Alok_i_92:

(Start: 46 @70021 has 1 MA's), (Start: 51 @70033 has 2 MA's), (Start: 54 @70036 has 8 MA's), (83, 70129), (92, 70189), (131, 70339), (132, 70342), (134, 70348), (158, 70447), (163, 70477), (164, 70480), (180, 70543), (185, 70564), (186, 70567), (193, 70594), (222, 70711), (226, 70720), (235, 70777), (237, 70786), (253, 70852), (273, 70918), (347, 71083), (351, 71101), (355, 71116), (357, 71122), (359, 71134), (367, 71161), (368, 71164), (375, 71224), (376, 71233), (377, 71236), (379, 71248), (382, 71293), (394, 71362), (397, 71386), (432, 71542), (438, 71560), (443, 71584), (448, 71602), (475, 71698), (483, 71740), (487, 71746), (499, 71782), (500, 71791), (503, 71809), (504, 71815), (508, 71839), (512, 71845), (514, 71848), (521, 71866), (522, 71869), (554, 71962), (564, 72007), (566, 72013), (574, 72037), (575, 72040), (577, 72049), (578, 72055), (580, 72067), (600, 72184), (602, 72202), (603, 72205), (606, 72214), (635, 72328), (639, 72343), (675, 72490), (679, 72502), (681, 72508), (692, 72541), (703, 72574), (708, 72592), (712, 72604), (714, 72613), (750, 72727), (754, 72739), (762, 72754), (787, 72829), (791, 72838),

Gene: Alyssamiracle_81 Start: 50715, Stop: 54056, Start Num: 69

Candidate Starts for Alyssamiracle_81:

(Start: 69 @50715 has 20 MA's), (Start: 81 @50775 has 1 MA's), (Start: 89 @50811 has 8 MA's), (94, 50856), (104, 50898), (173, 51159), (213, 51294), (233, 51390), (304, 51660), (Start: 307 @51669 has 8 MA's), (338, 51777), (346, 51822), (356, 51864), (370, 51942), (378, 51996), (379, 51999), (380, 52029), (395, 52119), (405, 52173), (430, 52272), (435, 52287), (455, 52329), (502, 52503), (508, 52536), (521, 52554), (530, 52572), (543, 52617), (544, 52620), (571, 52716), (580, 52758), (582, 52770), (587, 52806), (629, 52986), (640, 53028), (648, 53064), (663, 53106), (666, 53118), (671,

53136), (692, 53232), (695, 53244), (795, 53439), (829, 53523), (862, 53628), (867, 53643), (873, 53658), (879, 53679), (882, 53691), (884, 53697), (885, 53700), (893, 53727), (903, 53772), (935, 53880), (950, 53925), (958, 53949), (969, 53985),

Gene: Amabiko_82 Start: 58443, Stop: 61763, Start Num: 67

Candidate Starts for Amabiko_82:

(Start: 67 @58443 has 30 MA's), (79, 58494), (84, 58515), (Start: 89 @58539 has 8 MA's), (103, 58620), (157, 58818), (214, 58998), (226, 59046), (227, 59049), (235, 59103), (245, 59154), (249, 59172), (251, 59181), (262, 59217), (295, 59325), (298, 59334), (358, 59544), (371, 59613), (395, 59778), (411, 59856), (469, 60018), (489, 60105), (499, 60141), (521, 60225), (543, 60288), (548, 60297), (592, 60501), (603, 60555), (606, 60564), (610, 60582), (612, 60588), (664, 60771), (666, 60780), (672, 60804), (675, 60831), (706, 60939), (738, 61038), (760, 61128), (790, 61206), (806, 61248), (809, 61266), (822, 61308), (834, 61347), (835, 61353), (845, 61380), (855, 61419), (870, 61467), (873, 61476), (895, 61548), (899, 61569), (907, 61596), (911, 61599), (914, 61614), (923, 61647), (942, 61716),

Gene: Amataga_210 Start: 112377, Stop: 115772, Start Num: 66

Candidate Starts for Amataga_210:

(Start: 23 @112284 has 44 MA's), (Start: 25 @112290 has 6 MA's), (Start: 32 @112302 has 9 MA's), (38, 112311), (Start: 66 @112377 has 166 MA's), (83, 112452), (104, 112566), (112, 112590), (133, 112650), (162, 112761), (170, 112800), (177, 112824), (185, 112866), (211, 112965), (221, 113007), (222, 113013), (227, 113025), (237, 113088), (251, 113148), (252, 113151), (259, 113178), (272, 113220), (Start: 292 @113283 has 9 MA's), (344, 113403), (351, 113439), (356, 113457), (359, 113472), (373, 113589), (379, 113628), (395, 113748), (403, 113790), (413, 113835), (415, 113844), (428, 113895), (441, 113937), (461, 114003), (464, 114012), (465, 114015), (467, 114021), (468, 114024), (469, 114033), (471, 114039), (474, 114054), (499, 114141), (530, 114246), (541, 114300), (556, 114387), (562, 114417), (572, 114447), (579, 114480), (581, 114489), (592, 114561), (596, 114591), (622, 114708), (632, 114753), (643, 114795), (680, 114939), (702, 114999), (738, 115101), (770, 115188), (772, 115191), (779, 115209), (791, 115245), (792, 115248), (813, 115308), (818, 115326), (851, 115422), (858, 115452), (864, 115470), (876, 115500), (911, 115593), (914, 115608), (939, 115689), (940, 115695), (944, 115707),

Gene: Anakin_57 Start: 41234, Stop: 43537, Start Num: 287

Candidate Starts for Anakin_57:

(Start: 287 @41234 has 29 MA's), (Start: 290 @41240 has 6 MA's), (324, 41318), (344, 41390), (348, 41411), (356, 41444), (358, 41456), (359, 41459), (361, 41477), (375, 41552), (378, 41576), (381, 41615), (388, 41660), (391, 41672), (405, 41753), (435, 41867), (440, 41879), (471, 41954), (475, 41972), (493, 42050), (496, 42056), (498, 42065), (503, 42098), (508, 42128), (512, 42134), (526, 42155), (530, 42164), (538, 42194), (558, 42269), (560, 42278), (570, 42302), (571, 42308), (575, 42323), (580, 42350), (592, 42425), (608, 42497), (614, 42521), (635, 42605), (663, 42695), (666, 42707), (671, 42725), (687, 42803), (688, 42809), (692, 42818), (702, 42851), (729, 42923), (840, 43103), (850, 43133), (868, 43196), (892, 43268), (929, 43391), (938, 43424), (953, 43469), (966, 43514), (969, 43520),

Gene: Anedea_78 Start: 57982, Stop: 61266, Start Num: 68

Candidate Starts for Anedea_78:

(Start: 68 @57982 has 63 MA's), (78, 58027), (84, 58057), (Start: 89 @58081 has 8 MA's), (157, 58360), (167, 58399), (182, 58462), (214, 58540), (216, 58552), (235, 58645), (249, 58708), (250, 58714), (262, 58753), (298, 58870), (334, 58969), (358, 59080), (371, 59149), (377, 59188), (413, 59401), (471, 59536), (474, 59551), (497, 59641), (498, 59647), (499, 59653), (521, 59737), (543, 59800), (548, 59809), (554, 59836), (564, 59881), (580, 59944), (592, 60016), (603, 60070), (606, 60079), (608, 60088), (610, 60097), (612, 60103), (675, 60346), (694, 60397), (698, 60415), (702, 60427), (703, 60430), (822, 60811), (845, 60883), (855, 60922), (870, 60970), (895, 61051), (896,

61060), (911, 61102), (923, 61150), (928, 61165), (938, 61204),

Gene: Angela_76 Start: 57448, Stop: 60732, Start Num: 68

Candidate Starts for Angela_76:

(33, 57364), (42, 57391), (Start: 68 @57448 has 63 MA's), (78, 57493), (84, 57523), (88, 57541), (Start: 89 @57547 has 8 MA's), (157, 57826), (182, 57928), (214, 58006), (216, 58018), (235, 58111), (249, 58174), (250, 58180), (262, 58219), (298, 58336), (317, 58375), (334, 58435), (358, 58546), (367, 58576), (377, 58654), (407, 58843), (413, 58867), (418, 58888), (471, 59002), (474, 59017), (497, 59107), (498, 59113), (499, 59119), (502, 59143), (503, 59146), (521, 59203), (535, 59236), (543, 59266), (548, 59275), (564, 59347), (567, 59356), (580, 59410), (592, 59482), (603, 59536), (606, 59545), (608, 59554), (610, 59563), (612, 59569), (632, 59650), (675, 59812), (698, 59881), (702, 59893), (738, 60007), (819, 60268), (822, 60277), (855, 60388), (870, 60436), (895, 60517), (911, 60568), (923, 60616), (928, 60631),

Gene: AnnaSerena_57 Start: 41268, Stop: 43571, Start Num: 287

Candidate Starts for AnnaSerena_57:

(Start: 287 @41268 has 29 MA's), (Start: 290 @41274 has 6 MA's), (324, 41352), (344, 41424), (348, 41445), (356, 41478), (358, 41490), (359, 41493), (361, 41511), (375, 41586), (378, 41610), (381, 41649), (388, 41694), (391, 41706), (405, 41787), (435, 41901), (440, 41913), (471, 41988), (475, 42006), (493, 42084), (496, 42090), (498, 42099), (503, 42132), (508, 42162), (512, 42168), (526, 42189), (530, 42198), (538, 42228), (558, 42303), (560, 42312), (570, 42336), (571, 42342), (575, 42357), (580, 42384), (592, 42459), (608, 42531), (614, 42555), (635, 42639), (663, 42729), (666, 42741), (671, 42759), (687, 42837), (688, 42843), (692, 42852), (702, 42885), (729, 42957), (840, 43137), (850, 43167), (868, 43230), (892, 43302), (929, 43425), (938, 43458), (953, 43503), (966, 43548), (969, 43554),

Gene: Annadreamy_58 Start: 47706, Stop: 50996, Start Num: 68

Candidate Starts for Annadreamy_58:

(Start: 68 @47706 has 63 MA's), (84, 47778), (88, 47796), (Start: 89 @47802 has 8 MA's), (157, 48081), (172, 48141), (235, 48366), (249, 48429), (255, 48456), (260, 48471), (262, 48474), (358, 48801), (464, 49230), (471, 49257), (482, 49311), (498, 49368), (499, 49374), (548, 49530), (554, 49557), (564, 49602), (580, 49665), (590, 49734), (592, 49737), (603, 49791), (606, 49800), (608, 49809), (610, 49818), (612, 49824), (643, 49938), (666, 50016), (672, 50040), (678, 50076), (698, 50136), (700, 50142), (737, 50259), (751, 50328), (799, 50457), (804, 50469), (820, 50526), (822, 50532), (855, 50643), (857, 50652), (864, 50673), (874, 50703), (881, 50727), (885, 50736), (911, 50823), (925, 50874), (928, 50886), (953, 50973),

Gene: Annapurna_59 Start: 40745, Stop: 43048, Start Num: 287

Candidate Starts for Annapurna_59:

(Start: 287 @40745 has 29 MA's), (Start: 290 @40751 has 6 MA's), (324, 40829), (344, 40901), (348, 40922), (356, 40955), (358, 40967), (359, 40970), (361, 40988), (364, 40994), (375, 41063), (378, 41087), (381, 41126), (388, 41171), (391, 41183), (405, 41264), (435, 41378), (440, 41390), (471, 41465), (475, 41483), (493, 41561), (496, 41567), (498, 41576), (503, 41609), (508, 41639), (512, 41645), (526, 41666), (530, 41675), (538, 41705), (558, 41780), (560, 41789), (570, 41813), (571, 41819), (575, 41834), (592, 41936), (608, 42008), (614, 42032), (635, 42116), (663, 42206), (666, 42218), (671, 42236), (687, 42314), (688, 42320), (692, 42329), (702, 42362), (729, 42434), (840, 42614), (850, 42644), (868, 42707), (892, 42779), (929, 42902), (938, 42935), (953, 42980), (966, 43025), (969, 43031),

Gene: Apeppi_73 Start: 51198, Stop: 54536, Start Num: 69

Candidate Starts for Apeppi_73:

(Start: 69 @51198 has 20 MA's), (Start: 81 @51258 has 1 MA's), (84, 51270), (Start: 89 @51294 has 8 MA's), (104, 51381), (213, 51777), (233, 51873), (259, 51996), (304, 52143), (Start: 307 @52152 has 8

MA's), (Start: 315 @52185 has 1 MA's), (328, 52221), (338, 52263), (346, 52308), (356, 52350), (378, 52482), (379, 52485), (380, 52515), (388, 52566), (393, 52587), (395, 52605), (407, 52668), (430, 52758), (435, 52773), (442, 52794), (502, 52989), (508, 53022), (521, 53040), (543, 53103), (544, 53106), (559, 53169), (571, 53202), (580, 53244), (582, 53256), (587, 53292), (612, 53406), (629, 53472), (635, 53499), (640, 53514), (648, 53550), (666, 53604), (671, 53622), (692, 53718), (699, 53742), (730, 53814), (832, 54018), (867, 54129), (873, 54144), (879, 54165), (882, 54177), (884, 54183), (885, 54186), (893, 54213), (903, 54258), (935, 54366), (948, 54405), (950, 54411), (958, 54435), (962, 54450), (964, 54456), (969, 54471),

Gene: Apiary_59 Start: 45761, Stop: 42345, Start Num: 72

Candidate Starts for Apiary_59:

(Start: 72 @45761 has 72 MA's), (86, 45680), (Start: 89 @45665 has 8 MA's), (108, 45557), (110, 45551), (127, 45503), (148, 45422), (160, 45380), (217, 45170), (220, 45155), (222, 45146), (229, 45122), (233, 45092), (240, 45053), (261, 44972), (273, 44930), (318, 44795), (347, 44681), (359, 44630), (361, 44612), (365, 44603), (376, 44525), (378, 44510), (381, 44471), (388, 44432), (405, 44339), (417, 44288), (419, 44282), (428, 44243), (471, 44138), (474, 44123), (475, 44120), (502, 44006), (503, 44003), (508, 43973), (521, 43955), (522, 43952), (525, 43946), (527, 43943), (536, 43910), (543, 43889), (582, 43721), (594, 43643), (602, 43604), (603, 43601), (605, 43595), (610, 43577), (634, 43481), (640, 43463), (648, 43427), (671, 43355), (692, 43262), (695, 43250), (718, 43187), (737, 43130), (771, 43001), (781, 42971), (802, 42911), (803, 42908), (814, 42866), (817, 42854), (846, 42764), (855, 42728), (874, 42683), (878, 42668), (892, 42626), (902, 42581), (919, 42527), (922, 42518), (927, 42506), (928, 42500), (930, 42482), (948, 42431), (949, 42428), (962, 42386),

Gene: ArcherS7_209 Start: 113326, Stop: 116814, Start Num: 23

Candidate Starts for ArcherS7_209:

(Start: 23 @113326 has 44 MA's), (Start: 25 @113332 has 6 MA's), (Start: 32 @113344 has 9 MA's), (38, 113353), (Start: 66 @113419 has 166 MA's), (83, 113494), (104, 113608), (112, 113632), (133, 113692), (162, 113803), (170, 113842), (177, 113866), (185, 113908), (211, 114007), (221, 114049), (222, 114055), (227, 114067), (237, 114130), (251, 114190), (252, 114193), (259, 114220), (272, 114262), (Start: 292 @114325 has 9 MA's), (351, 114481), (356, 114499), (359, 114514), (373, 114631), (379, 114670), (395, 114790), (403, 114832), (413, 114877), (415, 114886), (428, 114937), (441, 114979), (461, 115045), (464, 115054), (465, 115057), (467, 115063), (468, 115066), (469, 115075), (471, 115081), (474, 115096), (499, 115183), (530, 115288), (541, 115342), (556, 115429), (562, 115459), (572, 115489), (579, 115522), (581, 115531), (592, 115603), (596, 115633), (622, 115750), (632, 115795), (643, 115837), (680, 115981), (702, 116041), (738, 116143), (770, 116230), (772, 116233), (779, 116251), (791, 116287), (792, 116290), (813, 116350), (818, 116368), (851, 116464), (858, 116494), (864, 116512), (876, 116542), (911, 116635), (914, 116650), (939, 116731), (940, 116737), (944, 116749),

Gene: Arti_59 Start: 47894, Stop: 44583, Start Num: 72

Candidate Starts for Arti_59:

(1, 48146), (9, 48059), (13, 48032), (Start: 72 @47894 has 72 MA's), (84, 47822), (Start: 89 @47798 has 8 MA's), (124, 47645), (127, 47636), (204, 47354), (206, 47348), (212, 47324), (234, 47216), (240, 47186), (311, 46979), (356, 46808), (365, 46766), (376, 46688), (378, 46673), (399, 46535), (460, 46337), (475, 46280), (491, 46220), (502, 46169), (530, 46100), (543, 46055), (593, 45815), (603, 45770), (605, 45764), (610, 45746), (634, 45650), (648, 45596), (688, 45452), (692, 45443), (722, 45368), (744, 45293), (759, 45239), (795, 45149), (824, 45068), (831, 45047), (878, 44903), (879, 44900), (930, 44717), (951, 44660), (971, 44594),

Gene: Artiphact_56 Start: 41258, Stop: 43561, Start Num: 287

Candidate Starts for Artiphact_56:

(Start: 287 @41258 has 29 MA's), (Start: 290 @41264 has 6 MA's), (324, 41342), (344, 41414), (348, 41435), (356, 41468), (358, 41480), (359, 41483), (361, 41501), (375, 41576), (378, 41600), (381, 41639), (388, 41684), (391, 41696), (405, 41777), (435, 41891), (440, 41903), (471, 41978), (475, 41996), (493, 42074), (496, 42080), (498, 42089), (503, 42122), (508, 42152), (512, 42158), (526, 42179), (530, 42188), (538, 42218), (558, 42293), (560, 42302), (570, 42326), (571, 42332), (575, 42347), (580, 42374), (592, 42449), (608, 42521), (614, 42545), (635, 42629), (663, 42719), (666, 42731), (671, 42749), (687, 42827), (688, 42833), (692, 42842), (702, 42875), (729, 42947), (840, 43127), (850, 43157), (868, 43220), (892, 43292), (929, 43415), (938, 43448), (953, 43493), (966, 43538), (969, 43544),

Gene: Asten_54 Start: 42455, Stop: 38970, Start Num: 66

Candidate Starts for Asten_54:

(Start: 32 @42524 has 9 MA's), (Start: 66 @42455 has 166 MA's), (Start: 81 @42392 has 1 MA's), (83, 42383), (91, 42341), (108, 42248), (126, 42179), (143, 42110), (156, 42056), (174, 41984), (182, 41948), (198, 41888), (255, 41663), (270, 41624), (277, 41597), (282, 41579), (Start: 290 @41558 has 6 MA's), (295, 41543), (321, 41501), (347, 41423), (350, 41411), (380, 41225), (381, 41219), (388, 41174), (404, 41090), (407, 41072), (422, 41015), (423, 41012), (426, 41000), (469, 40862), (471, 40856), (474, 40841), (476, 40835), (482, 40802), (504, 40724), (514, 40691), (558, 40550), (563, 40532), (580, 40469), (581, 40463), (592, 40394), (602, 40331), (608, 40310), (618, 40265), (645, 40169), (647, 40160), (649, 40154), (675, 40052), (678, 40043), (681, 40031), (684, 40010), (697, 39980), (706, 39953), (731, 39887), (733, 39878), (737, 39866), (765, 39779), (816, 39611), (833, 39563), (866, 39452), (905, 39314), (908, 39305), (914, 39278), (928, 39230), (936, 39197), (944, 39170), (976, 39065), (978, 39053),

Gene: Asterius_211 Start: 112786, Stop: 116181, Start Num: 66

Candidate Starts for Asterius_211:

(Start: 23 @112693 has 44 MA's), (Start: 25 @112699 has 6 MA's), (Start: 32 @112711 has 9 MA's), (38, 112720), (Start: 66 @112786 has 166 MA's), (83, 112861), (104, 112975), (112, 112999), (133, 113059), (162, 113170), (170, 113209), (177, 113233), (185, 113275), (211, 113374), (221, 113416), (222, 113422), (227, 113434), (237, 113497), (251, 113557), (252, 113560), (259, 113587), (272, 113629), (Start: 292 @113692 has 9 MA's), (351, 113848), (356, 113866), (359, 113881), (373, 113998), (379, 114037), (395, 114157), (403, 114199), (413, 114244), (415, 114253), (428, 114304), (441, 114346), (461, 114412), (464, 114421), (465, 114424), (467, 114430), (468, 114433), (469, 114442), (471, 114448), (474, 114463), (499, 114550), (530, 114655), (541, 114709), (556, 114796), (562, 114826), (572, 114856), (579, 114889), (581, 114898), (592, 114970), (596, 115000), (622, 115117), (632, 115162), (643, 115204), (680, 115348), (702, 115408), (738, 115510), (770, 115597), (772, 115600), (779, 115618), (791, 115654), (792, 115657), (813, 115717), (818, 115735), (851, 115831), (858, 115861), (864, 115879), (876, 115909), (911, 116002), (914, 116017), (939, 116098), (940, 116104), (944, 116116),

Gene: Astraea_203 Start: 111888, Stop: 115376, Start Num: 23

Candidate Starts for Astraea_203:

(Start: 23 @111888 has 44 MA's), (Start: 25 @111894 has 6 MA's), (Start: 32 @111906 has 9 MA's), (38, 111915), (Start: 66 @111981 has 166 MA's), (83, 112056), (104, 112170), (112, 112194), (133, 112254), (162, 112365), (170, 112404), (177, 112428), (185, 112470), (211, 112569), (221, 112611), (222, 112617), (227, 112629), (237, 112692), (251, 112752), (252, 112755), (259, 112782), (272, 112824), (Start: 292 @112887 has 9 MA's), (344, 113007), (351, 113043), (356, 113061), (359, 113076), (373, 113193), (379, 113232), (395, 113352), (403, 113394), (413, 113439), (415, 113448), (428, 113499), (441, 113541), (461, 113607), (464, 113616), (465, 113619), (467, 113625), (468, 113628), (469, 113637), (471, 113643), (474, 113658), (499, 113745), (530, 113850), (541, 113904), (556, 113991), (562, 114021), (572, 114051), (579, 114084), (581, 114093), (592, 114165), (596, 114195), (622, 114312), (632, 114357), (643, 114399), (680, 114543), (702, 114603), (738, 114705), (770, 114792), (772, 114795), (779, 114813), (791, 114849), (792, 114852), (813, 114912), (818,

114930), (851, 115026), (858, 115056), (864, 115074), (876, 115104), (911, 115197), (914, 115212), (939, 115293), (940, 115299), (944, 115311),

Gene: Astralis_80 Start: 50294, Stop: 53635, Start Num: 69

Candidate Starts for Astralis_80:

(Start: 69 @50294 has 20 MA's), (Start: 81 @50354 has 1 MA's), (Start: 89 @50390 has 8 MA's), (94, 50435), (104, 50477), (173, 50738), (213, 50873), (233, 50969), (304, 51239), (Start: 307 @51248 has 8 MA's), (338, 51356), (346, 51401), (356, 51443), (370, 51521), (378, 51575), (379, 51578), (380, 51608), (395, 51698), (405, 51752), (430, 51851), (435, 51866), (455, 51908), (502, 52082), (508, 52115), (521, 52133), (530, 52151), (543, 52196), (544, 52199), (571, 52295), (580, 52337), (582, 52349), (587, 52385), (629, 52565), (640, 52607), (648, 52643), (663, 52685), (666, 52697), (671, 52715), (692, 52811), (695, 52823), (795, 53018), (829, 53102), (862, 53207), (867, 53222), (873, 53237), (879, 53258), (882, 53270), (884, 53276), (885, 53279), (893, 53306), (903, 53351), (935, 53459), (950, 53504), (958, 53528), (969, 53564),

Gene: Atlantean_209 Start: 112377, Stop: 115772, Start Num: 66

Candidate Starts for Atlantean_209:

(Start: 23 @112284 has 44 MA's), (Start: 25 @112290 has 6 MA's), (Start: 32 @112302 has 9 MA's), (38, 112311), (Start: 66 @112377 has 166 MA's), (83, 112452), (104, 112566), (112, 112590), (133, 112650), (162, 112761), (170, 112800), (177, 112824), (185, 112866), (211, 112965), (221, 113007), (222, 113013), (227, 113025), (237, 113088), (251, 113148), (252, 113151), (259, 113178), (272, 113220), (Start: 292 @113283 has 9 MA's), (344, 113403), (351, 113439), (356, 113457), (359, 113472), (373, 113589), (379, 113628), (395, 113748), (403, 113790), (413, 113835), (415, 113844), (428, 113895), (441, 113937), (461, 114003), (464, 114012), (465, 114015), (467, 114021), (468, 114024), (469, 114033), (471, 114039), (474, 114054), (499, 114141), (530, 114246), (541, 114300), (556, 114387), (562, 114417), (572, 114447), (579, 114480), (581, 114489), (592, 114561), (596, 114591), (622, 114708), (632, 114753), (643, 114795), (680, 114939), (702, 114999), (738, 115101), (770, 115188), (772, 115191), (779, 115209), (791, 115245), (792, 115248), (813, 115308), (818, 115326), (851, 115422), (858, 115452), (864, 115470), (876, 115500), (911, 115593), (914, 115608), (939, 115689), (940, 115695), (944, 115707),

Gene: Audrick_211 Start: 112267, Stop: 115662, Start Num: 66

Candidate Starts for Audrick_211:

(Start: 23 @112174 has 44 MA's), (Start: 25 @112180 has 6 MA's), (Start: 32 @112192 has 9 MA's), (38, 112201), (Start: 66 @112267 has 166 MA's), (83, 112342), (104, 112456), (112, 112480), (133, 112540), (162, 112651), (170, 112690), (177, 112714), (185, 112756), (211, 112855), (221, 112897), (222, 112903), (227, 112915), (237, 112978), (251, 113038), (252, 113041), (259, 113068), (272, 113110), (Start: 292 @113173 has 9 MA's), (344, 113293), (351, 113329), (356, 113347), (359, 113362), (373, 113479), (379, 113518), (395, 113638), (403, 113680), (413, 113725), (415, 113734), (428, 113785), (441, 113827), (461, 113893), (464, 113902), (465, 113905), (467, 113911), (468, 113914), (469, 113923), (471, 113929), (474, 113944), (499, 114031), (530, 114136), (541, 114190), (556, 114277), (562, 114307), (572, 114337), (579, 114370), (581, 114379), (592, 114451), (596, 114481), (622, 114598), (632, 114643), (643, 114685), (680, 114829), (702, 114889), (738, 114991), (770, 115078), (772, 115081), (779, 115099), (791, 115135), (792, 115138), (813, 115198), (818, 115216), (851, 115312), (858, 115342), (864, 115360), (876, 115390), (911, 115483), (914, 115498), (939, 115579), (940, 115585), (944, 115597),

Gene: Ava3_208 Start: 112811, Stop: 116206, Start Num: 66

Candidate Starts for Ava3_208:

(Start: 23 @112718 has 44 MA's), (Start: 25 @112724 has 6 MA's), (Start: 32 @112736 has 9 MA's), (38, 112745), (Start: 66 @112811 has 166 MA's), (83, 112886), (104, 113000), (112, 113024), (133, 113084), (162, 113195), (170, 113234), (177, 113258), (185, 113300), (211, 113399), (221, 113441), (222, 113447), (227, 113459), (237, 113522), (251, 113582), (252, 113585), (259, 113612), (272,

113654), (Start: 292 @113717 has 9 MA's), (344, 113837), (351, 113873), (356, 113891), (359, 113906), (373, 114023), (379, 114062), (395, 114182), (403, 114224), (413, 114269), (415, 114278), (428, 114329), (441, 114371), (461, 114437), (464, 114446), (465, 114449), (467, 114455), (468, 114458), (469, 114467), (471, 114473), (474, 114488), (499, 114575), (530, 114680), (541, 114734), (556, 114821), (562, 114851), (572, 114881), (579, 114914), (581, 114923), (592, 114995), (596, 115025), (622, 115142), (632, 115187), (643, 115229), (680, 115373), (702, 115433), (738, 115535), (770, 115622), (772, 115625), (779, 115643), (791, 115679), (792, 115682), (813, 115742), (818, 115760), (851, 115856), (858, 115886), (864, 115904), (876, 115934), (911, 116027), (914, 116042), (939, 116123), (940, 116129), (944, 116141),

Gene: Avian_78 Start: 50443, Stop: 53784, Start Num: 69

Candidate Starts for Avian_78:

(Start: 69 @50443 has 20 MA's), (Start: 89 @50539 has 8 MA's), (94, 50584), (104, 50626), (173, 50887), (213, 51022), (233, 51118), (304, 51388), (Start: 307 @51397 has 8 MA's), (338, 51505), (346, 51550), (356, 51592), (370, 51670), (378, 51724), (379, 51727), (380, 51757), (395, 51847), (405, 51901), (430, 52000), (435, 52015), (455, 52057), (502, 52231), (508, 52264), (521, 52282), (530, 52300), (543, 52345), (544, 52348), (571, 52444), (580, 52486), (582, 52498), (587, 52534), (629, 52714), (640, 52756), (648, 52792), (663, 52834), (666, 52846), (671, 52864), (692, 52960), (695, 52972), (795, 53167), (829, 53251), (862, 53356), (867, 53371), (873, 53386), (879, 53407), (882, 53419), (884, 53425), (885, 53428), (893, 53455), (903, 53500), (935, 53608), (950, 53653), (958, 53677), (969, 53713),

Gene: Babyland_212 Start: 113154, Stop: 116549, Start Num: 66

Candidate Starts for Babyland_212:

(Start: 23 @113061 has 44 MA's), (Start: 25 @113067 has 6 MA's), (Start: 32 @113079 has 9 MA's), (38, 113088), (Start: 66 @113154 has 166 MA's), (83, 113229), (104, 113343), (112, 113367), (133, 113427), (162, 113538), (170, 113577), (177, 113601), (185, 113643), (211, 113742), (221, 113784), (222, 113790), (227, 113802), (237, 113865), (251, 113925), (252, 113928), (259, 113955), (272, 113997), (Start: 292 @114060 has 9 MA's), (344, 114180), (351, 114216), (356, 114234), (359, 114249), (373, 114366), (379, 114405), (395, 114525), (403, 114567), (413, 114612), (415, 114621), (428, 114672), (441, 114714), (461, 114780), (464, 114789), (465, 114792), (467, 114798), (468, 114801), (469, 114810), (471, 114816), (474, 114831), (499, 114918), (530, 115023), (541, 115077), (556, 115164), (562, 115194), (572, 115224), (579, 115257), (581, 115266), (592, 115338), (596, 115368), (622, 115485), (632, 115530), (643, 115572), (680, 115716), (702, 115776), (738, 115878), (770, 115965), (772, 115968), (779, 115986), (791, 116022), (792, 116025), (813, 116085), (818, 116103), (851, 116199), (858, 116229), (864, 116247), (876, 116277), (911, 116370), (914, 116385), (939, 116466), (940, 116472), (944, 116484),

Gene: BackyardAgain_204 Start: 110970, Stop: 114458, Start Num: 23

Candidate Starts for BackyardAgain_204:

(Start: 23 @110970 has 44 MA's), (Start: 25 @110976 has 6 MA's), (Start: 32 @110988 has 9 MA's), (38, 110997), (Start: 66 @111063 has 166 MA's), (83, 111138), (104, 111252), (112, 111276), (133, 111336), (162, 111447), (170, 111486), (177, 111510), (185, 111552), (211, 111651), (221, 111693), (222, 111699), (227, 111711), (237, 111774), (251, 111834), (252, 111837), (259, 111864), (272, 111906), (Start: 292 @111969 has 9 MA's), (344, 112089), (351, 112125), (356, 112143), (359, 112158), (373, 112275), (379, 112314), (395, 112434), (403, 112476), (413, 112521), (415, 112530), (428, 112581), (441, 112623), (461, 112689), (464, 112698), (465, 112701), (467, 112707), (468, 112710), (469, 112719), (471, 112725), (474, 112740), (499, 112827), (530, 112932), (541, 112986), (556, 113073), (562, 113103), (572, 113133), (579, 113166), (581, 113175), (592, 113247), (596, 113277), (622, 113394), (632, 113439), (643, 113481), (680, 113625), (702, 113685), (738, 113787), (770, 113874), (772, 113877), (779, 113895), (791, 113931), (792, 113934), (813, 113994), (818, 114012), (851, 114108), (858, 114138), (864, 114156), (876, 114186), (911, 114279), (914, 114294), (939, 114375), (940, 114381), (944, 114393),

Gene: BadAgartude_203 Start: 112479, Stop: 115874, Start Num: 66

Candidate Starts for BadAgartude_203:

(10, 112311), (Start: 23 @112386 has 44 MA's), (Start: 25 @112392 has 6 MA's), (Start: 32 @112404 has 9 MA's), (38, 112413), (Start: 66 @112479 has 166 MA's), (83, 112554), (104, 112668), (112, 112692), (133, 112752), (162, 112863), (170, 112902), (177, 112926), (185, 112968), (211, 113067), (221, 113109), (222, 113115), (227, 113127), (237, 113190), (251, 113250), (252, 113253), (259, 113280), (272, 113322), (Start: 292 @113385 has 9 MA's), (351, 113541), (356, 113559), (359, 113574), (373, 113691), (379, 113730), (395, 113850), (403, 113892), (413, 113937), (415, 113946), (428, 113997), (441, 114039), (461, 114105), (464, 114114), (465, 114117), (467, 114123), (468, 114126), (469, 114135), (471, 114141), (474, 114156), (499, 114243), (530, 114348), (541, 114402), (556, 114489), (562, 114519), (572, 114549), (579, 114582), (581, 114591), (592, 114663), (596, 114693), (622, 114810), (632, 114855), (643, 114897), (680, 115041), (702, 115101), (738, 115203), (770, 115290), (772, 115293), (779, 115311), (791, 115347), (792, 115350), (813, 115410), (818, 115428), (851, 115524), (858, 115554), (864, 115572), (876, 115602), (911, 115695), (914, 115710), (939, 115791), (940, 115797), (944, 115809),

Gene: BananaFence_206 Start: 112610, Stop: 116005, Start Num: 66

Candidate Starts for BananaFence_206:

(Start: 23 @112517 has 44 MA's), (Start: 25 @112523 has 6 MA's), (Start: 32 @112535 has 9 MA's), (38, 112544), (Start: 66 @112610 has 166 MA's), (83, 112685), (104, 112799), (112, 112823), (133, 112883), (162, 112994), (170, 113033), (177, 113057), (185, 113099), (211, 113198), (221, 113240), (222, 113246), (227, 113258), (237, 113321), (251, 113381), (252, 113384), (259, 113411), (272, 113453), (Start: 292 @113516 has 9 MA's), (351, 113672), (356, 113690), (359, 113705), (373, 113822), (379, 113861), (395, 113981), (403, 114023), (413, 114068), (415, 114077), (428, 114128), (441, 114170), (461, 114236), (464, 114245), (465, 114248), (467, 114254), (468, 114257), (469, 114266), (471, 114272), (474, 114287), (499, 114374), (530, 114479), (541, 114533), (556, 114620), (562, 114650), (572, 114680), (579, 114713), (581, 114722), (592, 114794), (596, 114824), (622, 114941), (632, 114986), (643, 115028), (680, 115172), (702, 115232), (738, 115334), (770, 115421), (772, 115424), (779, 115442), (791, 115478), (792, 115481), (813, 115541), (818, 115559), (851, 115655), (858, 115685), (864, 115703), (876, 115733), (911, 115826), (914, 115841), (939, 115922), (940, 115928), (944, 115940),

Gene: Bangla1971_209 Start: 112290, Stop: 115778, Start Num: 23

Candidate Starts for Bangla1971_209:

(Start: 23 @112290 has 44 MA's), (Start: 25 @112296 has 6 MA's), (Start: 32 @112308 has 9 MA's), (38, 112317), (Start: 66 @112383 has 166 MA's), (83, 112458), (104, 112572), (112, 112596), (133, 112656), (162, 112767), (170, 112806), (177, 112830), (185, 112872), (211, 112971), (221, 113013), (222, 113019), (227, 113031), (237, 113094), (251, 113154), (252, 113157), (259, 113184), (272, 113226), (Start: 292 @113289 has 9 MA's), (351, 113445), (356, 113463), (359, 113478), (373, 113595), (379, 113634), (395, 113754), (403, 113796), (413, 113841), (415, 113850), (428, 113901), (441, 113943), (461, 114009), (464, 114018), (465, 114021), (467, 114027), (468, 114030), (469, 114039), (471, 114045), (474, 114060), (499, 114147), (530, 114252), (541, 114306), (556, 114393), (562, 114423), (572, 114453), (579, 114486), (581, 114495), (592, 114567), (596, 114597), (622, 114714), (632, 114759), (643, 114801), (680, 114945), (702, 115005), (738, 115107), (770, 115194), (772, 115197), (779, 115215), (791, 115251), (792, 115254), (813, 115314), (818, 115332), (851, 115428), (858, 115458), (864, 115476), (876, 115506), (911, 115599), (914, 115614), (939, 115695), (940, 115701), (944, 115713),

Gene: Barnyard_80 Start: 54919, Stop: 58254, Start Num: 72

Candidate Starts for Barnyard_80:

(Start: 52 @54892 has 1 MA's), (Start: 72 @54919 has 72 MA's), (79, 54970), (80, 54976), (Start: 89 @55015 has 8 MA's), (92, 55048), (111, 55132), (127, 55183), (152, 55273), (187, 55393), (202,

55453), (261, 55711), (338, 55906), (359, 56008), (370, 56071), (373, 56086), (378, 56131), (379, 56134), (420, 56368), (452, 56476), (454, 56482), (496, 56638), (502, 56677), (504, 56686), (508, 56710), (511, 56725), (513, 56728), (520, 56746), (523, 56752), (538, 56803), (555, 56908), (560, 56938), (564, 56950), (569, 56959), (572, 56974), (585, 57043), (594, 57100), (603, 57142), (608, 57160), (671, 57391), (673, 57403), (725, 57604), (742, 57658), (796, 57715), (798, 57718), (836, 57808), (862, 57892), (884, 57952), (901, 58021), (930, 58120), (951, 58180), (970, 58240),

Gene: BarryBee_57 Start: 42477, Stop: 38992, Start Num: 66

Candidate Starts for BarryBee_57:

(Start: 32 @42546 has 9 MA's), (Start: 66 @42477 has 166 MA's), (Start: 81 @42414 has 1 MA's), (83, 42405), (91, 42363), (108, 42270), (126, 42201), (143, 42132), (156, 42078), (174, 42006), (182, 41970), (198, 41910), (255, 41685), (270, 41646), (277, 41619), (282, 41601), (Start: 290 @41580 has 6 MA's), (295, 41565), (321, 41523), (347, 41445), (350, 41433), (380, 41247), (381, 41241), (388, 41196), (404, 41112), (407, 41094), (422, 41037), (423, 41034), (426, 41022), (469, 40884), (471, 40878), (474, 40863), (476, 40857), (482, 40824), (504, 40746), (514, 40713), (554, 40596), (558, 40572), (580, 40491), (581, 40485), (592, 40416), (602, 40353), (608, 40332), (618, 40287), (645, 40191), (647, 40182), (649, 40176), (675, 40074), (678, 40065), (681, 40053), (684, 40032), (697, 40002), (706, 39975), (731, 39909), (733, 39900), (737, 39888), (765, 39801), (816, 39633), (833, 39585), (866, 39474), (905, 39336), (908, 39327), (914, 39300), (928, 39252), (936, 39219), (976, 39087), (978, 39075),

Gene: Bartholomune_78 Start: 57817, Stop: 61101, Start Num: 68

Candidate Starts for Bartholomune_78:

(Start: 68 @57817 has 63 MA's), (78, 57862), (84, 57892), (88, 57910), (Start: 89 @57916 has 8 MA's), (100, 57982), (157, 58195), (160, 58201), (182, 58297), (214, 58375), (235, 58480), (249, 58543), (250, 58549), (262, 58588), (298, 58705), (334, 58804), (358, 58915), (367, 58945), (371, 58984), (411, 59227), (471, 59371), (474, 59386), (498, 59482), (499, 59488), (502, 59512), (521, 59572), (543, 59635), (548, 59644), (564, 59716), (580, 59779), (592, 59851), (603, 59905), (606, 59914), (608, 59923), (610, 59932), (612, 59938), (632, 60019), (663, 60118), (675, 60181), (698, 60250), (702, 60262), (753, 60448), (760, 60466), (795, 60562), (807, 60595), (822, 60646), (834, 60685), (835, 60691), (855, 60757), (864, 60787), (870, 60805), (881, 60841), (895, 60886), (896, 60895), (901, 60916), (911, 60937), (923, 60985), (928, 61000),

Gene: Basquiat_206 Start: 111889, Stop: 115284, Start Num: 66

Candidate Starts for Basquiat_206:

(Start: 23 @111796 has 44 MA's), (Start: 25 @111802 has 6 MA's), (Start: 32 @111814 has 9 MA's), (38, 111823), (Start: 66 @111889 has 166 MA's), (83, 111964), (104, 112078), (112, 112102), (133, 112162), (162, 112273), (170, 112312), (177, 112336), (185, 112378), (211, 112477), (221, 112519), (222, 112525), (227, 112537), (237, 112600), (251, 112660), (252, 112663), (259, 112690), (272, 112732), (Start: 292 @112795 has 9 MA's), (344, 112915), (351, 112951), (356, 112969), (359, 112984), (373, 113101), (379, 113140), (395, 113260), (403, 113302), (413, 113347), (415, 113356), (428, 113407), (441, 113449), (461, 113515), (464, 113524), (465, 113527), (467, 113533), (468, 113536), (469, 113545), (471, 113551), (474, 113566), (499, 113653), (530, 113758), (541, 113812), (556, 113899), (562, 113929), (572, 113959), (579, 113992), (581, 114001), (592, 114073), (596, 114103), (622, 114220), (632, 114265), (643, 114307), (680, 114451), (702, 114511), (738, 114613), (770, 114700), (772, 114703), (779, 114721), (791, 114757), (792, 114760), (813, 114820), (818, 114838), (851, 114934), (858, 114964), (864, 114982), (876, 115012), (911, 115105), (914, 115120), (939, 115201), (940, 115207), (944, 115219),

Gene: Battuta_80 Start: 58417, Stop: 61737, Start Num: 67

Candidate Starts for Battuta_80:

(Start: 67 @58417 has 30 MA's), (79, 58468), (84, 58489), (Start: 89 @58513 has 8 MA's), (103, 58594), (157, 58792), (214, 58972), (226, 59020), (235, 59077), (236, 59080), (245, 59128), (249,

59146), (251, 59155), (262, 59191), (295, 59299), (298, 59308), (358, 59518), (371, 59587), (395, 59752), (411, 59830), (469, 59992), (499, 60115), (521, 60199), (543, 60262), (548, 60271), (592, 60475), (603, 60529), (606, 60538), (610, 60556), (612, 60562), (664, 60745), (666, 60754), (672, 60778), (675, 60805), (706, 60913), (760, 61102), (790, 61180), (806, 61222), (809, 61240), (822, 61282), (834, 61321), (835, 61327), (845, 61354), (855, 61393), (870, 61441), (873, 61450), (895, 61522), (899, 61543), (907, 61570), (911, 61573), (914, 61588), (923, 61621), (942, 61690),

Gene: BeanWater_201 Start: 112340, Stop: 115810, Start Num: 32

Candidate Starts for BeanWater_201:

(Start: 18 @112292 has 5 MA's), (Start: 23 @112322 has 44 MA's), (Start: 25 @112328 has 6 MA's), (Start: 32 @112340 has 9 MA's), (38, 112349), (Start: 66 @112415 has 166 MA's), (83, 112490), (104, 112604), (112, 112628), (133, 112688), (162, 112799), (170, 112838), (177, 112862), (185, 112904), (211, 113003), (221, 113045), (222, 113051), (227, 113063), (237, 113126), (251, 113186), (252, 113189), (259, 113216), (272, 113258), (Start: 292 @113321 has 9 MA's), (344, 113441), (351, 113477), (356, 113495), (359, 113510), (373, 113627), (379, 113666), (395, 113786), (403, 113828), (413, 113873), (415, 113882), (428, 113933), (441, 113975), (461, 114041), (464, 114050), (465, 114053), (467, 114059), (468, 114062), (469, 114071), (471, 114077), (474, 114092), (499, 114179), (530, 114284), (541, 114338), (556, 114425), (562, 114455), (572, 114485), (579, 114518), (581, 114527), (592, 114599), (596, 114629), (622, 114746), (632, 114791), (643, 114833), (680, 114977), (702, 115037), (738, 115139), (770, 115226), (772, 115229), (779, 115247), (791, 115283), (792, 115286), (813, 115346), (818, 115364), (851, 115460), (858, 115490), (864, 115508), (876, 115538), (911, 115631), (914, 115646), (939, 115727), (940, 115733), (944, 115745),

Gene: BeardedLady_53 Start: 40610, Stop: 37131, Start Num: 66

Candidate Starts for BeardedLady_53:

(4, 40820), (Start: 66 @40610 has 166 MA's), (83, 40538), (Start: 89 @40511 has 8 MA's), (91, 40496), (126, 40334), (132, 40307), (134, 40301), (156, 40211), (161, 40196), (173, 40142), (174, 40139), (198, 40043), (226, 39965), (236, 39905), (255, 39818), (270, 39779), (282, 39734), (Start: 290 @39713 has 6 MA's), (295, 39698), (321, 39656), (326, 39644), (347, 39578), (350, 39566), (365, 39503), (381, 39374), (382, 39365), (388, 39329), (404, 39245), (407, 39227), (422, 39170), (423, 39167), (426, 39155), (469, 39017), (471, 39011), (474, 38996), (476, 38990), (482, 38957), (504, 38879), (514, 38846), (558, 38705), (576, 38648), (580, 38624), (581, 38618), (592, 38549), (602, 38486), (618, 38420), (630, 38381), (645, 38324), (647, 38315), (675, 38207), (678, 38198), (681, 38186), (684, 38165), (697, 38135), (706, 38108), (731, 38042), (733, 38033), (737, 38021), (765, 37934), (776, 37910), (792, 37862), (833, 37718), (855, 37643), (905, 37469), (908, 37460), (914, 37433), (928, 37385), (936, 37352),

Gene: Beckerton_76 Start: 56006, Stop: 59302, Start Num: 72

Candidate Starts for Beckerton_76:

(Start: 50 @55979 has 1 MA's), (Start: 72 @56006 has 72 MA's), (84, 56078), (Start: 89 @56102 has 8 MA's), (90, 56111), (92, 56135), (127, 56270), (153, 56363), (158, 56381), (188, 56489), (233, 56681), (296, 56915), (325, 56972), (338, 57026), (346, 57071), (352, 57098), (359, 57128), (378, 57251), (381, 57290), (387, 57332), (401, 57410), (405, 57428), (410, 57446), (412, 57458), (433, 57533), (475, 57689), (496, 57773), (509, 57851), (518, 57872), (520, 57881), (523, 57887), (528, 57896), (550, 57968), (553, 57983), (560, 58022), (564, 58034), (585, 58127), (586, 58133), (594, 58181), (603, 58223), (643, 58373), (646, 58385), (671, 58469), (705, 58610), (742, 58715), (825, 58814), (828, 58823), (852, 58901), (863, 58940), (870, 58955), (885, 59003), (912, 59099), (917, 59117), (926, 59144), (939, 59192), (949, 59222), (950, 59225), (954, 59240), (964, 59270), (966, 59279), (969, 59285), (970, 59288),

Gene: Belfort_62 Start: 50235, Stop: 53525, Start Num: 68

Candidate Starts for Belfort_62:

(55, 50217), (Start: 68 @50235 has 63 MA's), (74, 50250), (75, 50256), (79, 50286), (84, 50307), (88, 50325), (Start: 89 @50331 has 8 MA's), (129, 50499), (140, 50541), (157, 50610), (172, 50670), (210, 50784), (214, 50790), (235, 50895), (249, 50958), (250, 50964), (262, 51003), (328, 51192), (342, 51249), (346, 51276), (357, 51321), (407, 51627), (416, 51663), (460, 51747), (471, 51786), (497, 51891), (499, 51903), (504, 51936), (512, 51966), (514, 51969), (519, 51981), (521, 51987), (548, 52059), (562, 52125), (564, 52131), (580, 52194), (592, 52266), (603, 52320), (606, 52329), (610, 52347), (612, 52353), (643, 52467), (663, 52533), (666, 52545), (672, 52569), (678, 52605), (679, 52608), (698, 52665), (700, 52671), (704, 52683), (714, 52719), (737, 52788), (799, 52986), (809, 53019), (820, 53055), (822, 53061), (826, 53073), (855, 53172), (857, 53181), (864, 53202), (874, 53232), (892, 53289), (911, 53352), (925, 53403), (928, 53415),

Gene: Belieber_202 Start: 111203, Stop: 114598, Start Num: 66

Candidate Starts for Belieber_202:

(Start: 23 @111110 has 44 MA's), (Start: 25 @111116 has 6 MA's), (Start: 32 @111128 has 9 MA's), (38, 111137), (Start: 66 @111203 has 166 MA's), (83, 111278), (104, 111392), (112, 111416), (133, 111476), (162, 111587), (170, 111626), (177, 111650), (185, 111692), (211, 111791), (221, 111833), (222, 111839), (227, 111851), (237, 111914), (251, 111974), (252, 111977), (259, 112004), (272, 112046), (Start: 292 @112109 has 9 MA's), (344, 112229), (351, 112265), (356, 112283), (359, 112298), (373, 112415), (379, 112454), (395, 112574), (403, 112616), (413, 112661), (415, 112670), (428, 112721), (441, 112763), (461, 112829), (464, 112838), (465, 112841), (467, 112847), (468, 112850), (469, 112859), (471, 112865), (474, 112880), (499, 112967), (530, 113072), (541, 113126), (556, 113213), (562, 113243), (572, 113273), (579, 113306), (581, 113315), (592, 113387), (596, 113417), (622, 113534), (632, 113579), (643, 113621), (680, 113765), (702, 113825), (738, 113927), (770, 114014), (772, 114017), (779, 114035), (791, 114071), (792, 114074), (813, 114134), (818, 114152), (851, 114248), (858, 114278), (864, 114296), (876, 114326), (911, 114419), (914, 114434), (939, 114515), (940, 114521), (944, 114533),

Gene: Beted_97 Start: 71922, Stop: 74735, Start Num: 54

Candidate Starts for Beted_97:

(Start: 46 @71907 has 1 MA's), (Start: 51 @71919 has 2 MA's), (Start: 54 @71922 has 8 MA's), (83, 72015), (92, 72075), (131, 72225), (132, 72228), (134, 72234), (145, 72276), (158, 72333), (163, 72363), (164, 72366), (165, 72369), (180, 72429), (185, 72450), (186, 72453), (193, 72480), (216, 72570), (222, 72597), (226, 72606), (235, 72663), (237, 72672), (273, 72804), (347, 72969), (351, 72987), (355, 73002), (357, 73008), (359, 73020), (367, 73047), (368, 73050), (375, 73110), (376, 73119), (377, 73122), (379, 73134), (382, 73179), (394, 73248), (397, 73272), (432, 73428), (443, 73470), (448, 73488), (475, 73584), (483, 73626), (499, 73668), (500, 73677), (503, 73695), (504, 73701), (508, 73725), (512, 73731), (514, 73734), (521, 73752), (522, 73755), (554, 73848), (564, 73893), (566, 73899), (574, 73923), (575, 73926), (577, 73935), (578, 73941), (580, 73953), (600, 74070), (602, 74088), (603, 74091), (606, 74100), (635, 74214), (639, 74229), (675, 74376), (679, 74388), (681, 74394), (703, 74460), (708, 74478), (712, 74490), (714, 74499), (750, 74613), (754, 74625), (762, 74640), (787, 74715), (791, 74724),

Gene: Beuffert_58 Start: 48843, Stop: 52133, Start Num: 68

Candidate Starts for Beuffert_58:

(Start: 68 @48843 has 63 MA's), (84, 48915), (Start: 89 @48939 has 8 MA's), (157, 49218), (172, 49278), (226, 49446), (235, 49503), (249, 49566), (260, 49608), (262, 49611), (358, 49938), (370, 50004), (371, 50007), (464, 50367), (471, 50394), (482, 50448), (498, 50505), (499, 50511), (548, 50667), (554, 50694), (564, 50739), (580, 50802), (592, 50874), (603, 50928), (606, 50937), (608, 50946), (610, 50955), (612, 50961), (643, 51075), (666, 51153), (678, 51213), (698, 51273), (700, 51279), (704, 51291), (737, 51396), (751, 51465), (799, 51594), (818, 51657), (819, 51660), (820, 51663), (822, 51669), (855, 51780), (857, 51789), (864, 51810), (874, 51840), (881, 51864), (885, 51873), (911, 51960), (913, 51972), (925, 52011), (928, 52023), (953, 52110),

Gene: Beyoncage_66 Start: 47716, Stop: 50151, Start Num: 307

Candidate Starts for Beyoncage_66:

(Start: 307 @47716 has 8 MA's), (312, 47734), (357, 47914), (376, 48028), (378, 48043), (435, 48334), (471, 48421), (501, 48550), (508, 48589), (512, 48595), (526, 48616), (530, 48625), (582, 48823), (584, 48838), (585, 48844), (592, 48886), (606, 48949), (612, 48973), (625, 49030), (632, 49054), (643, 49093), (663, 49159), (666, 49171), (671, 49189), (691, 49282), (695, 49297), (707, 49333), (743, 49435), (831, 49627), (832, 49630), (853, 49705), (855, 49711), (873, 49768), (881, 49795), (884, 49807), (906, 49891), (916, 49921), (935, 49990), (943, 50014), (948, 50029), (964, 50080), (967, 50092), (969, 50095), (975, 50110), (982, 50146),

Gene: BiPauneto_61 Start: 47338, Stop: 44087, Start Num: 72

Candidate Starts for BiPauneto_61:

(16, 47470), (22, 47440), (27, 47428), (Start: 72 @47338 has 72 MA's), (86, 47257), (Start: 89 @47242 has 8 MA's), (94, 47197), (124, 47089), (127, 47080), (206, 46792), (218, 46741), (226, 46714), (234, 46660), (240, 46630), (311, 46423), (343, 46315), (359, 46237), (365, 46210), (376, 46132), (378, 46117), (399, 45979), (460, 45781), (462, 45775), (469, 45748), (502, 45613), (508, 45580), (530, 45544), (543, 45499), (548, 45487), (561, 45424), (593, 45259), (594, 45256), (602, 45217), (603, 45214), (605, 45208), (607, 45199), (610, 45190), (634, 45094), (640, 45076), (648, 45040), (691, 44890), (708, 44836), (759, 44740), (795, 44656), (799, 44647), (817, 44596), (846, 44506), (878, 44410), (879, 44407), (895, 44356), (930, 44224), (971, 44101),

Gene: BigCity_218 Start: 115911, Stop: 119381, Start Num: 32

Candidate Starts for BigCity_218:

(10, 115818), (Start: 23 @115893 has 44 MA's), (Start: 25 @115899 has 6 MA's), (Start: 32 @115911 has 9 MA's), (38, 115920), (Start: 66 @115986 has 166 MA's), (83, 116061), (104, 116175), (112, 116199), (133, 116259), (162, 116370), (170, 116409), (177, 116433), (185, 116475), (211, 116574), (221, 116616), (222, 116622), (227, 116634), (237, 116697), (251, 116757), (252, 116760), (259, 116787), (272, 116829), (Start: 292 @116892 has 9 MA's), (351, 117048), (356, 117066), (359, 117081), (373, 117198), (379, 117237), (395, 117357), (403, 117399), (413, 117444), (415, 117453), (428, 117504), (441, 117546), (461, 117612), (464, 117621), (465, 117624), (467, 117630), (468, 117633), (469, 117642), (471, 117648), (474, 117663), (499, 117750), (530, 117855), (541, 117909), (556, 117996), (562, 118026), (572, 118056), (579, 118089), (581, 118098), (592, 118170), (596, 118200), (622, 118317), (632, 118362), (643, 118404), (680, 118548), (702, 118608), (738, 118710), (770, 118797), (772, 118800), (779, 118818), (791, 118854), (792, 118857), (813, 118917), (818, 118935), (851, 119031), (858, 119061), (864, 119079), (876, 119109), (911, 119202), (914, 119217), (939, 119298), (940, 119304), (944, 119316),

Gene: BigMama_65 Start: 49772, Stop: 53074, Start Num: 26

Candidate Starts for BigMama_65:

(Start: 26 @49772 has 20 MA's), (Start: 61 @49859 has 1 MA's), (65, 49865), (Start: 72 @49874 has 72 MA's), (Start: 89 @49970 has 8 MA's), (127, 50126), (151, 50213), (152, 50216), (163, 50267), (233, 50531), (240, 50570), (258, 50642), (261, 50651), (283, 50726), (308, 50792), (309, 50798), (329, 50852), (338, 50870), (347, 50921), (348, 50924), (355, 50954), (371, 51038), (372, 51047), (376, 51074), (378, 51089), (405, 51266), (407, 51275), (435, 51380), (469, 51461), (482, 51521), (502, 51596), (508, 51629), (512, 51635), (526, 51656), (530, 51665), (543, 51710), (560, 51779), (565, 51794), (582, 51863), (592, 51926), (600, 51959), (601, 51962), (612, 52013), (631, 52088), (666, 52211), (671, 52229), (691, 52307), (692, 52310), (695, 52322), (710, 52367), (721, 52388), (724, 52400), (733, 52430), (740, 52451), (801, 52523), (829, 52580), (860, 52679), (882, 52745), (906, 52835), (916, 52865), (917, 52868), (927, 52898), (938, 52943), (951, 52985), (961, 53015), (964, 53027), (969, 53042), (971, 53051),

Gene: Bigswole_214 Start: 115765, Stop: 119235, Start Num: 32

Candidate Starts for Bigswole_214:

(10, 115672), (Start: 23 @115747 has 44 MA's), (Start: 25 @115753 has 6 MA's), (Start: 32 @115765 has 9 MA's), (38, 115774), (Start: 66 @115840 has 166 MA's), (83, 115915), (104, 116029), (112, 116053), (133, 116113), (162, 116224), (170, 116263), (177, 116287), (185, 116329), (211, 116428), (221, 116470), (222, 116476), (227, 116488), (237, 116551), (251, 116611), (252, 116614), (259, 116641), (272, 116683), (Start: 292 @116746 has 9 MA's), (351, 116902), (356, 116920), (359, 116935), (373, 117052), (379, 117091), (395, 117211), (403, 117253), (413, 117298), (415, 117307), (428, 117358), (441, 117400), (461, 117466), (464, 117475), (465, 117478), (467, 117484), (468, 117487), (469, 117496), (471, 117502), (474, 117517), (499, 117604), (530, 117709), (541, 117763), (556, 117850), (562, 117880), (572, 117910), (579, 117943), (581, 117952), (592, 118024), (596, 118054), (622, 118171), (632, 118216), (643, 118258), (680, 118402), (702, 118462), (738, 118564), (770, 118651), (772, 118654), (779, 118672), (791, 118708), (792, 118711), (813, 118771), (818, 118789), (851, 118885), (858, 118915), (864, 118933), (876, 118963), (911, 119056), (914, 119071), (939, 119152), (940, 119158), (944, 119170),

Gene: BillNye_56 Start: 51723, Stop: 55010, Start Num: 68

Candidate Starts for BillNye_56:

(Start: 68 @51723 has 63 MA's), (75, 51744), (84, 51795), (Start: 89 @51819 has 8 MA's), (106, 51915), (157, 52098), (172, 52158), (199, 52248), (214, 52278), (223, 52320), (226, 52326), (235, 52383), (249, 52446), (262, 52491), (276, 52539), (358, 52818), (371, 52887), (388, 53019), (395, 53052), (413, 53139), (460, 53235), (471, 53274), (474, 53289), (498, 53385), (499, 53391), (504, 53424), (519, 53469), (521, 53475), (534, 53505), (548, 53547), (557, 53592), (564, 53619), (580, 53682), (592, 53754), (603, 53808), (606, 53817), (610, 53835), (612, 53841), (646, 53967), (663, 54021), (666, 54033), (675, 54084), (702, 54165), (704, 54171), (748, 54327), (822, 54549), (823, 54552), (855, 54660), (857, 54669), (870, 54708), (896, 54798), (911, 54840), (914, 54855), (928, 54903), (951, 54981),

Gene: Bipolarisk_207 Start: 113080, Stop: 116475, Start Num: 66

Candidate Starts for Bipolarisk_207:

(Start: 23 @112987 has 44 MA's), (Start: 25 @112993 has 6 MA's), (Start: 32 @113005 has 9 MA's), (38, 113014), (Start: 66 @113080 has 166 MA's), (83, 113155), (104, 113269), (112, 113293), (133, 113353), (162, 113464), (170, 113503), (177, 113527), (185, 113569), (211, 113668), (221, 113710), (222, 113716), (227, 113728), (237, 113791), (251, 113851), (252, 113854), (259, 113881), (272, 113923), (Start: 292 @113986 has 9 MA's), (344, 114106), (351, 114142), (356, 114160), (359, 114175), (373, 114292), (379, 114331), (395, 114451), (403, 114493), (413, 114538), (415, 114547), (428, 114598), (441, 114640), (461, 114706), (464, 114715), (465, 114718), (467, 114724), (468, 114727), (469, 114736), (471, 114742), (474, 114757), (499, 114844), (530, 114949), (541, 115003), (556, 115090), (562, 115120), (572, 115150), (579, 115183), (581, 115192), (592, 115264), (596, 115294), (622, 115411), (632, 115456), (643, 115498), (680, 115642), (702, 115702), (738, 115804), (770, 115891), (772, 115894), (779, 115912), (791, 115948), (792, 115951), (813, 116011), (818, 116029), (851, 116125), (858, 116155), (864, 116173), (876, 116203), (911, 116296), (914, 116311), (939, 116392), (940, 116398), (944, 116410),

Gene: Birchlyn_79 Start: 56300, Stop: 59620, Start Num: 67

Candidate Starts for Birchlyn_79:

(Start: 67 @56300 has 30 MA's), (79, 56351), (84, 56372), (Start: 89 @56396 has 8 MA's), (103, 56477), (157, 56675), (214, 56855), (226, 56903), (235, 56960), (245, 57011), (249, 57029), (251, 57038), (262, 57074), (295, 57182), (298, 57191), (358, 57401), (371, 57470), (395, 57635), (411, 57713), (469, 57875), (499, 57998), (521, 58082), (543, 58145), (548, 58154), (592, 58358), (603, 58412), (606, 58421), (610, 58439), (612, 58445), (664, 58628), (666, 58637), (672, 58661), (675, 58688), (706, 58796), (760, 58985), (790, 59063), (806, 59105), (809, 59123), (822, 59165), (834, 59204), (835, 59210), (845, 59237), (855, 59276), (870, 59324), (873, 59333), (895, 59405), (899, 59426), (907, 59453), (911, 59456), (914, 59471), (923, 59504), (942, 59573),

Gene: BirthdayBoy_81 Start: 52357, Stop: 55698, Start Num: 69

Candidate Starts for BirthdayBoy_81:

(41, 52309), (Start: 69 @52357 has 20 MA's), (Start: 81 @52417 has 1 MA's), (Start: 89 @52453 has 8 MA's), (94, 52498), (104, 52540), (173, 52801), (204, 52903), (213, 52936), (233, 53032), (304, 53302), (Start: 307 @53311 has 8 MA's), (338, 53419), (346, 53464), (356, 53506), (378, 53638), (379, 53641), (380, 53671), (395, 53761), (405, 53815), (430, 53914), (435, 53929), (455, 53971), (502, 54145), (508, 54178), (521, 54196), (530, 54214), (543, 54259), (544, 54262), (571, 54358), (580, 54400), (582, 54412), (587, 54448), (629, 54628), (640, 54670), (648, 54706), (666, 54760), (671, 54778), (692, 54874), (695, 54886), (795, 55081), (829, 55165), (862, 55270), (867, 55285), (879, 55321), (882, 55333), (884, 55339), (885, 55342), (893, 55369), (903, 55414), (935, 55522), (950, 55567), (958, 55591), (969, 55627),

Gene: BiteSize_66 Start: 47802, Stop: 50237, Start Num: 307

Candidate Starts for BiteSize_66:

(Start: 307 @47802 has 8 MA's), (312, 47820), (357, 48000), (376, 48114), (378, 48129), (435, 48420), (471, 48507), (501, 48636), (508, 48675), (512, 48681), (526, 48702), (530, 48711), (582, 48909), (584, 48924), (585, 48930), (592, 48972), (606, 49035), (612, 49059), (625, 49116), (632, 49140), (643, 49179), (663, 49245), (666, 49257), (671, 49275), (691, 49368), (695, 49383), (707, 49419), (743, 49521), (831, 49713), (832, 49716), (853, 49791), (855, 49797), (873, 49854), (881, 49881), (884, 49893), (906, 49977), (916, 50007), (935, 50076), (943, 50100), (948, 50115), (964, 50166), (967, 50178), (969, 50181), (975, 50196), (982, 50232),

Gene: Blackbrain_206 Start: 112974, Stop: 116369, Start Num: 66

Candidate Starts for Blackbrain_206:

(Start: 23 @112881 has 44 MA's), (Start: 25 @112887 has 6 MA's), (Start: 32 @112899 has 9 MA's), (38, 112908), (Start: 66 @112974 has 166 MA's), (83, 113049), (104, 113163), (112, 113187), (133, 113247), (162, 113358), (170, 113397), (177, 113421), (185, 113463), (211, 113562), (221, 113604), (222, 113610), (227, 113622), (237, 113685), (251, 113745), (252, 113748), (259, 113775), (272, 113817), (Start: 292 @113880 has 9 MA's), (351, 114036), (356, 114054), (359, 114069), (373, 114186), (379, 114225), (395, 114345), (403, 114387), (413, 114432), (415, 114441), (428, 114492), (441, 114534), (461, 114600), (464, 114609), (465, 114612), (467, 114618), (468, 114621), (469, 114630), (471, 114636), (474, 114651), (499, 114738), (530, 114843), (541, 114897), (556, 114984), (562, 115014), (572, 115044), (579, 115077), (581, 115086), (592, 115158), (596, 115188), (622, 115305), (632, 115350), (643, 115392), (680, 115536), (702, 115596), (738, 115698), (770, 115785), (772, 115788), (779, 115806), (791, 115842), (792, 115845), (813, 115905), (818, 115923), (851, 116019), (858, 116049), (864, 116067), (876, 116097), (911, 116190), (914, 116205), (939, 116286), (940, 116292), (944, 116304),

Gene: Blackdragon_204 Start: 112713, Stop: 116108, Start Num: 66

Candidate Starts for Blackdragon_204:

(Start: 18 @112590 has 5 MA's), (Start: 23 @112620 has 44 MA's), (Start: 25 @112626 has 6 MA's), (Start: 32 @112638 has 9 MA's), (38, 112647), (Start: 66 @112713 has 166 MA's), (83, 112788), (104, 112902), (112, 112926), (133, 112986), (162, 113097), (170, 113136), (177, 113160), (185, 113202), (211, 113301), (221, 113343), (222, 113349), (227, 113361), (237, 113424), (251, 113484), (252, 113487), (259, 113514), (272, 113556), (Start: 292 @113619 has 9 MA's), (344, 113739), (351, 113775), (356, 113793), (359, 113808), (373, 113925), (379, 113964), (395, 114084), (403, 114126), (413, 114171), (415, 114180), (428, 114231), (441, 114273), (461, 114339), (464, 114348), (465, 114351), (467, 114357), (468, 114360), (469, 114369), (471, 114375), (474, 114390), (499, 114477), (530, 114582), (541, 114636), (556, 114723), (562, 114753), (572, 114783), (579, 114816), (581, 114825), (592, 114897), (596, 114927), (622, 115044), (632, 115089), (643, 115131), (680, 115275), (702, 115335), (738, 115437), (770, 115524), (772, 115527), (779, 115545), (791, 115581), (792, 115584), (813, 115644), (818, 115662), (851, 115758), (858, 115788), (864, 115806), (876, 115836), (911, 115929), (914, 115944), (939, 116025), (940, 116031), (944, 116043),

Gene: Blubba_198 Start: 116099, Stop: 119494, Start Num: 66

Candidate Starts for Blubba_198:

(Start: 23 @116006 has 44 MA's), (Start: 25 @116012 has 6 MA's), (Start: 32 @116024 has 9 MA's), (38, 116033), (Start: 66 @116099 has 166 MA's), (83, 116174), (104, 116288), (112, 116312), (133, 116372), (162, 116483), (170, 116522), (177, 116546), (185, 116588), (211, 116687), (221, 116729), (222, 116735), (227, 116747), (237, 116810), (251, 116870), (252, 116873), (259, 116900), (272, 116942), (Start: 292 @117005 has 9 MA's), (351, 117161), (356, 117179), (359, 117194), (373, 117311), (379, 117350), (395, 117470), (403, 117512), (413, 117557), (415, 117566), (428, 117617), (441, 117659), (461, 117725), (464, 117734), (465, 117737), (467, 117743), (468, 117746), (469, 117755), (471, 117761), (474, 117776), (499, 117863), (530, 117968), (541, 118022), (556, 118109), (562, 118139), (572, 118169), (579, 118202), (581, 118211), (592, 118283), (596, 118313), (622, 118430), (632, 118475), (643, 118517), (680, 118661), (702, 118721), (738, 118823), (770, 118910), (772, 118913), (779, 118931), (791, 118967), (792, 118970), (813, 119030), (818, 119048), (851, 119144), (858, 119174), (864, 119192), (876, 119222), (911, 119315), (914, 119330), (940, 119417), (944, 119429), (957, 119468),

Gene: BlueOtter_80 Start: 59162, Stop: 62446, Start Num: 68

Candidate Starts for BlueOtter_80:

(Start: 68 @59162 has 63 MA's), (78, 59207), (84, 59237), (88, 59255), (Start: 89 @59261 has 8 MA's), (157, 59540), (182, 59642), (214, 59720), (235, 59825), (249, 59888), (250, 59894), (262, 59933), (298, 60050), (330, 60134), (358, 60260), (367, 60290), (371, 60329), (372, 60338), (403, 60536), (471, 60716), (497, 60821), (498, 60827), (499, 60833), (521, 60917), (534, 60947), (548, 60989), (554, 61016), (560, 61049), (564, 61061), (580, 61124), (592, 61196), (603, 61250), (606, 61259), (608, 61268), (610, 61277), (612, 61283), (675, 61526), (698, 61595), (702, 61607), (735, 61712), (795, 61907), (807, 61940), (822, 61991), (834, 62030), (835, 62036), (855, 62102), (870, 62150), (881, 62186), (895, 62231), (896, 62240), (911, 62282), (922, 62327), (923, 62330), (928, 62345),

Gene: Blueeyedbeauty_60 Start: 48314, Stop: 51508, Start Num: 89

Candidate Starts for Blueeyedbeauty_60:

(Start: 68 @48218 has 63 MA's), (84, 48290), (Start: 89 @48314 has 8 MA's), (157, 48593), (163, 48623), (172, 48653), (227, 48824), (235, 48878), (249, 48941), (260, 48983), (262, 48986), (358, 49313), (370, 49379), (395, 49547), (459, 49727), (464, 49742), (471, 49769), (482, 49823), (498, 49880), (499, 49886), (512, 49949), (535, 50003), (548, 50042), (564, 50114), (580, 50177), (589, 50237), (590, 50246), (592, 50249), (603, 50303), (606, 50312), (608, 50321), (610, 50330), (612, 50336), (643, 50450), (666, 50528), (672, 50552), (678, 50588), (698, 50648), (700, 50654), (704, 50666), (737, 50771), (799, 50969), (819, 51035), (820, 51038), (822, 51044), (855, 51155), (856, 51161), (857, 51164), (864, 51185), (874, 51215), (885, 51248), (892, 51272), (911, 51335), (913, 51347), (925, 51386), (928, 51398), (953, 51485),

Gene: Bmoc_78 Start: 57819, Stop: 61103, Start Num: 68

Candidate Starts for Bmoc_78:

(Start: 68 @57819 has 63 MA's), (78, 57864), (84, 57894), (Start: 89 @57918 has 8 MA's), (157, 58197), (182, 58299), (214, 58377), (235, 58482), (249, 58545), (250, 58551), (262, 58590), (298, 58707), (334, 58806), (358, 58917), (371, 58986), (377, 59025), (402, 59190), (413, 59238), (418, 59259), (471, 59373), (474, 59388), (497, 59478), (498, 59484), (499, 59490), (521, 59574), (543, 59637), (548, 59646), (554, 59673), (564, 59718), (580, 59781), (592, 59853), (603, 59907), (606, 59916), (608, 59925), (610, 59934), (612, 59940), (675, 60183), (698, 60252), (702, 60264), (703, 60267), (738, 60378), (822, 60648), (845, 60720), (855, 60759), (870, 60807), (895, 60888), (896, 60897), (911, 60939), (923, 60987), (928, 61002), (938, 61041),

Gene: Bonray_211 Start: 114482, Stop: 117877, Start Num: 66

Candidate Starts for Bonray_211:

(Start: 23 @114389 has 44 MA's), (Start: 25 @114395 has 6 MA's), (Start: 32 @114407 has 9 MA's), (38, 114416), (Start: 66 @114482 has 166 MA's), (83, 114557), (104, 114671), (112, 114695), (133, 114755), (162, 114866), (170, 114905), (177, 114929), (185, 114971), (211, 115070), (221, 115112), (222, 115118), (227, 115130), (237, 115193), (251, 115253), (252, 115256), (259, 115283), (272, 115325), (Start: 292 @115388 has 9 MA's), (344, 115508), (351, 115544), (356, 115562), (359, 115577), (373, 115694), (379, 115733), (395, 115853), (403, 115895), (413, 115940), (415, 115949), (428, 116000), (441, 116042), (461, 116108), (464, 116117), (465, 116120), (467, 116126), (468, 116129), (469, 116138), (471, 116144), (474, 116159), (499, 116246), (530, 116351), (541, 116405), (556, 116492), (562, 116522), (572, 116552), (579, 116585), (581, 116594), (592, 116666), (596, 116696), (622, 116813), (632, 116858), (643, 116900), (680, 117044), (702, 117104), (738, 117206), (770, 117293), (772, 117296), (779, 117314), (791, 117350), (792, 117353), (813, 117413), (818, 117431), (851, 117527), (858, 117557), (864, 117575), (876, 117605), (911, 117698), (914, 117713), (939, 117794), (940, 117800), (944, 117812),

Gene: Bonum_63 Start: 48540, Stop: 45238, Start Num: 72

Candidate Starts for Bonum_63:

(Start: 72 @48540 has 72 MA's), (73, 48531), (Start: 89 @48444 has 8 MA's), (124, 48291), (127, 48282), (160, 48159), (204, 48000), (206, 47994), (212, 47970), (234, 47862), (261, 47751), (311, 47625), (356, 47454), (365, 47412), (376, 47334), (378, 47319), (399, 47181), (428, 47049), (460, 46983), (475, 46926), (491, 46866), (502, 46815), (530, 46746), (543, 46701), (593, 46458), (602, 46416), (603, 46413), (605, 46407), (610, 46389), (634, 46293), (648, 46239), (692, 46086), (711, 46026), (722, 46011), (759, 45882), (795, 45804), (817, 45744), (824, 45723), (825, 45720), (831, 45702), (855, 45618), (878, 45558), (888, 45531), (889, 45528), (905, 45462), (962, 45279), (971, 45249),

Gene: BoomerJR_82 Start: 58278, Stop: 61598, Start Num: 67

Candidate Starts for BoomerJR_82:

(Start: 67 @58278 has 30 MA's), (84, 58350), (Start: 89 @58374 has 8 MA's), (103, 58455), (157, 58653), (214, 58833), (226, 58881), (235, 58938), (245, 58989), (249, 59007), (251, 59016), (262, 59052), (295, 59160), (298, 59169), (328, 59241), (358, 59379), (371, 59448), (395, 59613), (411, 59691), (469, 59853), (475, 59877), (499, 59976), (521, 60060), (548, 60132), (592, 60336), (603, 60390), (606, 60399), (610, 60417), (612, 60423), (643, 60537), (666, 60615), (672, 60639), (675, 60666), (747, 60918), (748, 60921), (751, 60939), (755, 60951), (790, 61041), (809, 61101), (822, 61143), (834, 61182), (835, 61188), (845, 61215), (855, 61254), (870, 61302), (873, 61311), (895, 61383), (897, 61395), (899, 61404), (907, 61431), (911, 61434), (914, 61449), (923, 61482), (938, 61536), (942, 61551),

Gene: Bordeaux_80 Start: 58572, Stop: 61892, Start Num: 67

Candidate Starts for Bordeaux_80:

(Start: 67 @58572 has 30 MA's), (79, 58623), (84, 58644), (Start: 89 @58668 has 8 MA's), (103, 58749), (157, 58947), (214, 59127), (221, 59160), (226, 59175), (235, 59232), (245, 59283), (249, 59301), (251, 59310), (262, 59346), (295, 59454), (298, 59463), (358, 59673), (371, 59742), (395, 59907), (411, 59985), (469, 60147), (499, 60270), (502, 60294), (521, 60354), (548, 60426), (592, 60630), (603, 60684), (606, 60693), (610, 60711), (612, 60717), (664, 60900), (666, 60909), (672, 60933), (675, 60960), (706, 61068), (760, 61257), (790, 61335), (806, 61377), (809, 61395), (822, 61437), (834, 61476), (835, 61482), (845, 61509), (855, 61548), (870, 61596), (873, 61605), (895, 61677), (899, 61698), (907, 61725), (911, 61728), (914, 61743), (923, 61776), (942, 61845),

Gene: Bovely_53 Start: 40239, Stop: 36760, Start Num: 66

Candidate Starts for Bovely_53:

(4, 40449), (Start: 66 @40239 has 166 MA's), (83, 40167), (Start: 89 @40140 has 8 MA's), (91, 40125), (126, 39963), (132, 39936), (134, 39930), (156, 39840), (161, 39825), (173, 39771), (174, 39768), (198, 39672), (226, 39594), (255, 39447), (270, 39408), (282, 39363), (Start: 290 @39342 has 6 MA's),

(295, 39327), (321, 39285), (326, 39273), (347, 39207), (350, 39195), (365, 39132), (381, 39003), (382, 38994), (388, 38958), (404, 38874), (407, 38856), (422, 38799), (423, 38796), (426, 38784), (469, 38646), (471, 38640), (474, 38625), (476, 38619), (482, 38586), (504, 38508), (514, 38475), (558, 38334), (576, 38277), (580, 38253), (581, 38247), (592, 38178), (602, 38115), (618, 38049), (623, 38028), (630, 38010), (645, 37953), (647, 37944), (675, 37836), (678, 37827), (681, 37815), (684, 37794), (697, 37764), (706, 37737), (731, 37671), (733, 37662), (737, 37650), (765, 37563), (776, 37539), (792, 37491), (833, 37347), (855, 37272), (905, 37098), (914, 37062), (928, 37014), (936, 36981),

Gene: Braelyn_79 Start: 58581, Stop: 61865, Start Num: 68

Candidate Starts for Braelyn_79:

(Start: 68 @58581 has 63 MA's), (78, 58626), (84, 58656), (88, 58674), (Start: 89 @58680 has 8 MA's), (157, 58959), (160, 58965), (182, 59061), (214, 59139), (235, 59244), (249, 59307), (250, 59313), (262, 59352), (298, 59469), (334, 59568), (358, 59679), (367, 59709), (371, 59748), (411, 59991), (418, 60021), (471, 60135), (474, 60150), (497, 60240), (498, 60246), (499, 60252), (521, 60336), (543, 60399), (548, 60408), (564, 60480), (580, 60543), (592, 60615), (603, 60669), (606, 60678), (608, 60687), (610, 60696), (612, 60702), (632, 60783), (663, 60882), (675, 60945), (698, 61014), (702, 61026), (753, 61212), (760, 61230), (795, 61326), (807, 61359), (822, 61410), (835, 61455), (855, 61521), (864, 61551), (870, 61569), (895, 61650), (901, 61680), (911, 61701), (923, 61749), (928, 61764),

Gene: Bramble_64 Start: 42556, Stop: 44811, Start Num: 290

Candidate Starts for Bramble_64:

(Start: 285 @42547 has 3 MA's), (Start: 290 @42556 has 6 MA's), (348, 42691), (356, 42724), (359, 42739), (376, 42841), (378, 42856), (391, 42952), (405, 43033), (407, 43042), (434, 43141), (435, 43147), (471, 43234), (475, 43252), (481, 43282), (487, 43303), (489, 43315), (493, 43330), (498, 43345), (503, 43378), (508, 43408), (512, 43414), (526, 43435), (530, 43444), (538, 43474), (559, 43555), (564, 43570), (571, 43588), (575, 43603), (590, 43702), (648, 43933), (649, 43936), (666, 43987), (671, 44005), (673, 44017), (681, 44059), (688, 44089), (692, 44098), (724, 44188), (802, 44290), (828, 44341), (842, 44386), (860, 44449), (868, 44473), (879, 44503), (882, 44509), (919, 44632), (938, 44698), (953, 44743), (966, 44788), (969, 44794),

Gene: Brataylor_57 Start: 42019, Stop: 38543, Start Num: 66

Candidate Starts for Brataylor_57:

(Start: 32 @42088 has 9 MA's), (Start: 66 @42019 has 166 MA's), (Start: 81 @41959 has 1 MA's), (83, 41950), (91, 41908), (108, 41815), (126, 41746), (143, 41677), (156, 41623), (174, 41551), (198, 41455), (226, 41377), (255, 41230), (270, 41191), (277, 41164), (282, 41146), (Start: 290 @41125 has 6 MA's), (295, 41110), (347, 40990), (350, 40978), (380, 40792), (381, 40786), (404, 40657), (407, 40639), (422, 40582), (423, 40579), (426, 40567), (469, 40429), (471, 40423), (474, 40408), (476, 40402), (482, 40369), (504, 40291), (514, 40258), (558, 40117), (580, 40036), (581, 40030), (592, 39961), (599, 39919), (602, 39898), (608, 39877), (618, 39832), (630, 39793), (645, 39736), (647, 39727), (672, 39646), (675, 39619), (681, 39598), (684, 39577), (697, 39547), (706, 39520), (731, 39454), (733, 39445), (737, 39433), (765, 39346), (816, 39178), (833, 39130), (857, 39046), (905, 38881), (908, 38872), (914, 38845), (928, 38797), (929, 38791), (934, 38770), (936, 38764), (968, 38659), (978, 38620), (985, 38557),

Gene: Braxoaddie_59 Start: 45750, Stop: 42334, Start Num: 72

Candidate Starts for Braxoaddie_59:

(Start: 72 @45750 has 72 MA's), (86, 45669), (Start: 89 @45654 has 8 MA's), (108, 45546), (110, 45540), (127, 45492), (148, 45411), (160, 45369), (217, 45159), (220, 45144), (222, 45135), (229, 45111), (233, 45081), (240, 45042), (261, 44961), (273, 44919), (318, 44784), (347, 44670), (359, 44619), (361, 44601), (365, 44592), (376, 44514), (378, 44499), (381, 44460), (388, 44421), (405, 44328), (417, 44277), (419, 44271), (428, 44232), (471, 44127), (474, 44112), (475, 44109), (502,

43995), (503, 43992), (508, 43962), (521, 43944), (522, 43941), (525, 43935), (527, 43932), (536, 43899), (543, 43878), (582, 43710), (594, 43632), (602, 43593), (603, 43590), (605, 43584), (610, 43566), (634, 43470), (640, 43452), (648, 43416), (671, 43344), (692, 43251), (695, 43239), (718, 43176), (737, 43119), (771, 42990), (781, 42960), (802, 42900), (803, 42897), (817, 42843), (846, 42753), (855, 42717), (874, 42672), (878, 42657), (892, 42615), (902, 42570), (919, 42516), (922, 42507), (927, 42495), (928, 42489), (930, 42471), (948, 42420), (949, 42417), (962, 42375),

Gene: Bread_204 Start: 112387, Stop: 115875, Start Num: 23

Candidate Starts for Bread_204:

(Start: 23 @112387 has 44 MA's), (Start: 25 @112393 has 6 MA's), (Start: 32 @112405 has 9 MA's), (38, 112414), (Start: 66 @112480 has 166 MA's), (83, 112555), (104, 112669), (112, 112693), (133, 112753), (162, 112864), (170, 112903), (177, 112927), (185, 112969), (211, 113068), (221, 113110), (222, 113116), (227, 113128), (237, 113191), (251, 113251), (252, 113254), (259, 113281), (272, 113323), (Start: 292 @113386 has 9 MA's), (351, 113542), (356, 113560), (359, 113575), (373, 113692), (379, 113731), (395, 113851), (403, 113893), (413, 113938), (415, 113947), (428, 113998), (441, 114040), (461, 114106), (464, 114115), (465, 114118), (467, 114124), (468, 114127), (469, 114136), (471, 114142), (474, 114157), (499, 114244), (530, 114349), (541, 114403), (556, 114490), (562, 114520), (572, 114550), (579, 114583), (581, 114592), (592, 114664), (596, 114694), (622, 114811), (632, 114856), (643, 114898), (680, 115042), (702, 115102), (738, 115204), (770, 115291), (772, 115294), (779, 115312), (791, 115348), (792, 115351), (813, 115411), (818, 115429), (851, 115525), (858, 115555), (864, 115573), (876, 115603), (911, 115696), (914, 115711), (939, 115792), (940, 115798), (944, 115810),

Gene: Breeniome_208 Start: 111841, Stop: 115329, Start Num: 23

Candidate Starts for Breeniome_208:

(Start: 23 @111841 has 44 MA's), (Start: 25 @111847 has 6 MA's), (Start: 32 @111859 has 9 MA's), (38, 111868), (Start: 66 @111934 has 166 MA's), (83, 112009), (104, 112123), (112, 112147), (133, 112207), (162, 112318), (170, 112357), (177, 112381), (185, 112423), (211, 112522), (221, 112564), (222, 112570), (227, 112582), (237, 112645), (251, 112705), (252, 112708), (259, 112735), (272, 112777), (Start: 292 @112840 has 9 MA's), (351, 112996), (356, 113014), (359, 113029), (373, 113146), (379, 113185), (395, 113305), (403, 113347), (413, 113392), (415, 113401), (428, 113452), (441, 113494), (461, 113560), (464, 113569), (465, 113572), (467, 113578), (468, 113581), (469, 113590), (471, 113596), (474, 113611), (499, 113698), (530, 113803), (541, 113857), (556, 113944), (562, 113974), (572, 114004), (579, 114037), (581, 114046), (592, 114118), (596, 114148), (622, 114265), (632, 114310), (643, 114352), (680, 114496), (702, 114556), (738, 114658), (770, 114745), (772, 114748), (779, 114766), (791, 114802), (792, 114805), (813, 114865), (818, 114883), (851, 114979), (858, 115009), (864, 115027), (876, 115057), (911, 115150), (914, 115165), (939, 115246), (940, 115252), (944, 115264),

Gene: BryanRecycles_55 Start: 40726, Stop: 37247, Start Num: 66

Candidate Starts for BryanRecycles_55:

(Start: 32 @40795 has 9 MA's), (Start: 66 @40726 has 166 MA's), (83, 40654), (Start: 89 @40627 has 8 MA's), (91, 40612), (126, 40450), (132, 40423), (134, 40417), (156, 40327), (161, 40312), (173, 40258), (174, 40255), (198, 40159), (226, 40081), (255, 39934), (270, 39895), (282, 39850), (Start: 290 @39829 has 6 MA's), (295, 39814), (321, 39772), (326, 39760), (347, 39694), (350, 39682), (365, 39619), (381, 39490), (382, 39481), (388, 39445), (404, 39361), (407, 39343), (422, 39286), (423, 39283), (426, 39271), (469, 39133), (471, 39127), (474, 39112), (476, 39106), (485, 39067), (504, 38995), (514, 38962), (554, 38845), (558, 38821), (576, 38764), (580, 38740), (581, 38734), (592, 38665), (602, 38602), (618, 38536), (623, 38515), (630, 38497), (645, 38440), (647, 38431), (675, 38323), (678, 38314), (681, 38302), (684, 38281), (697, 38251), (706, 38224), (731, 38158), (733, 38149), (737, 38137), (765, 38050), (776, 38026), (792, 37978), (833, 37834), (855, 37759), (905, 37585), (914, 37549), (928, 37501), (936, 37468),

Gene: Buggaboo_61 Start: 49019, Stop: 45717, Start Num: 72

Candidate Starts for Buggaboo_61:

(33, 49094), (Start: 72 @49019 has 72 MA's), (Start: 89 @48923 has 8 MA's), (124, 48770), (127, 48761), (160, 48638), (204, 48479), (206, 48473), (212, 48449), (234, 48341), (261, 48230), (311, 48104), (356, 47933), (365, 47891), (376, 47813), (378, 47798), (399, 47660), (428, 47528), (460, 47462), (475, 47405), (491, 47345), (502, 47294), (512, 47255), (530, 47225), (543, 47180), (593, 46937), (602, 46895), (603, 46892), (605, 46886), (610, 46868), (634, 46772), (648, 46718), (692, 46565), (711, 46505), (722, 46490), (759, 46361), (795, 46283), (817, 46223), (824, 46202), (825, 46199), (831, 46181), (855, 46097), (878, 46037), (888, 46010), (962, 45758), (971, 45728),

Gene: Burrough_211 Start: 114157, Stop: 117645, Start Num: 23

Candidate Starts for Burrough_211:

(Start: 23 @114157 has 44 MA's), (Start: 25 @114163 has 6 MA's), (Start: 32 @114175 has 9 MA's), (38, 114184), (Start: 66 @114250 has 166 MA's), (83, 114325), (104, 114439), (112, 114463), (133, 114523), (162, 114634), (170, 114673), (177, 114697), (185, 114739), (211, 114838), (221, 114880), (222, 114886), (227, 114898), (237, 114961), (251, 115021), (252, 115024), (259, 115051), (272, 115093), (Start: 292 @115156 has 9 MA's), (351, 115312), (356, 115330), (359, 115345), (373, 115462), (379, 115501), (395, 115621), (403, 115663), (413, 115708), (415, 115717), (428, 115768), (441, 115810), (461, 115876), (464, 115885), (465, 115888), (467, 115894), (468, 115897), (469, 115906), (471, 115912), (474, 115927), (499, 116014), (530, 116119), (541, 116173), (556, 116260), (562, 116290), (572, 116320), (579, 116353), (581, 116362), (592, 116434), (596, 116464), (622, 116581), (632, 116626), (643, 116668), (680, 116812), (702, 116872), (738, 116974), (770, 117061), (772, 117064), (779, 117082), (791, 117118), (792, 117121), (813, 117181), (818, 117199), (851, 117295), (858, 117325), (864, 117343), (876, 117373), (911, 117466), (914, 117481), (939, 117562), (940, 117568), (944, 117580),

Gene: Butterscotch_65 Start: 49750, Stop: 53052, Start Num: 26

Candidate Starts for Butterscotch_65:

(Start: 26 @49750 has 20 MA's), (Start: 61 @49837 has 1 MA's), (65, 49843), (Start: 72 @49852 has 72 MA's), (Start: 89 @49948 has 8 MA's), (127, 50104), (151, 50191), (152, 50194), (163, 50245), (233, 50509), (240, 50548), (258, 50620), (261, 50629), (283, 50704), (308, 50770), (309, 50776), (329, 50830), (338, 50848), (347, 50899), (348, 50902), (355, 50932), (371, 51016), (372, 51025), (376, 51052), (378, 51067), (405, 51244), (407, 51253), (435, 51358), (469, 51439), (482, 51499), (502, 51574), (508, 51607), (512, 51613), (526, 51634), (530, 51643), (543, 51688), (560, 51757), (565, 51772), (582, 51841), (592, 51904), (600, 51937), (601, 51940), (612, 51991), (631, 52066), (666, 52189), (671, 52207), (691, 52285), (692, 52288), (695, 52300), (710, 52345), (721, 52366), (724, 52378), (733, 52408), (740, 52429), (801, 52501), (829, 52558), (860, 52657), (882, 52723), (906, 52813), (916, 52843), (917, 52846), (938, 52921), (951, 52963), (961, 52993), (964, 53005), (969, 53020), (971, 53029),

Gene: Bxz1_199 Start: 115449, Stop: 118844, Start Num: 66

Candidate Starts for Bxz1_199:

(Start: 23 @115356 has 44 MA's), (Start: 25 @115362 has 6 MA's), (Start: 32 @115374 has 9 MA's), (38, 115383), (Start: 66 @115449 has 166 MA's), (83, 115524), (104, 115638), (112, 115662), (133, 115722), (162, 115833), (170, 115872), (177, 115896), (185, 115938), (211, 116037), (221, 116079), (222, 116085), (227, 116097), (237, 116160), (251, 116220), (252, 116223), (259, 116250), (272, 116292), (Start: 292 @116355 has 9 MA's), (351, 116511), (356, 116529), (359, 116544), (373, 116661), (379, 116700), (395, 116820), (403, 116862), (413, 116907), (415, 116916), (428, 116967), (441, 117009), (461, 117075), (464, 117084), (465, 117087), (467, 117093), (468, 117096), (469, 117105), (471, 117111), (474, 117126), (499, 117213), (530, 117318), (541, 117372), (556, 117459), (562, 117489), (572, 117519), (579, 117552), (581, 117561), (592, 117633), (596, 117663), (622, 117780), (632, 117825), (643, 117867), (680, 118011), (702, 118071), (738, 118173), (770, 118260), (772, 118263), (779, 118281), (791, 118317), (792, 118320), (813, 118380), (818, 118398), (851,

118494), (858, 118524), (864, 118542), (876, 118572), (911, 118665), (914, 118680), (939, 118761), (940, 118767), (944, 118779),

Gene: C3PO_43 Start: 41952, Stop: 38659, Start Num: 72

Candidate Starts for C3PO_43:

(Start: 72 @41952 has 72 MA's), (80, 41895), (86, 41871), (Start: 89 @41856 has 8 MA's), (90, 41847), (127, 41700), (191, 41418), (204, 41340), (220, 41274), (278, 41031), (323, 40926), (347, 40824), (358, 40776), (376, 40671), (378, 40656), (391, 40560), (444, 40341), (445, 40338), (455, 40323), (468, 40293), (474, 40263), (502, 40146), (508, 40113), (525, 40086), (534, 40062), (571, 39915), (572, 39909), (580, 39873), (582, 39861), (585, 39840), (601, 39765), (603, 39747), (648, 39570), (661, 39540), (667, 39513), (671, 39498), (719, 39369), (746, 39336), (786, 39249), (829, 39135), (831, 39129), (834, 39117), (885, 38967), (886, 38964), (888, 38958), (893, 38940), (895, 38931), (898, 38913), (929, 38811), (935, 38787), (946, 38751), (948, 38745),

Gene: Cactojaque_204 Start: 111909, Stop: 115304, Start Num: 66

Candidate Starts for Cactojaque_204:

(Start: 23 @111816 has 44 MA's), (Start: 25 @111822 has 6 MA's), (Start: 32 @111834 has 9 MA's), (38, 111843), (Start: 66 @111909 has 166 MA's), (83, 111984), (104, 112098), (112, 112122), (133, 112182), (162, 112293), (170, 112332), (177, 112356), (185, 112398), (211, 112497), (221, 112539), (222, 112545), (227, 112557), (237, 112620), (251, 112680), (252, 112683), (259, 112710), (272, 112752), (Start: 292 @112815 has 9 MA's), (344, 112935), (351, 112971), (356, 112989), (359, 113004), (373, 113121), (379, 113160), (395, 113280), (403, 113322), (413, 113367), (415, 113376), (428, 113427), (441, 113469), (461, 113535), (464, 113544), (465, 113547), (467, 113553), (468, 113556), (469, 113565), (471, 113571), (474, 113586), (499, 113673), (530, 113778), (541, 113832), (556, 113919), (562, 113949), (572, 113979), (579, 114012), (581, 114021), (592, 114093), (596, 114123), (622, 114240), (632, 114285), (643, 114327), (680, 114471), (702, 114531), (738, 114633), (770, 114720), (772, 114723), (779, 114741), (791, 114777), (792, 114780), (813, 114840), (818, 114858), (851, 114954), (858, 114984), (864, 115002), (876, 115032), (911, 115125), (914, 115140), (939, 115221), (940, 115227), (944, 115239),

Gene: Cali_202 Start: 113769, Stop: 117251, Start Num: 25

Candidate Starts for Cali_202:

(Start: 18 @113733 has 5 MA's), (Start: 23 @113763 has 44 MA's), (Start: 25 @113769 has 6 MA's), (Start: 32 @113781 has 9 MA's), (38, 113790), (Start: 66 @113856 has 166 MA's), (83, 113931), (104, 114045), (112, 114069), (133, 114129), (162, 114240), (170, 114279), (177, 114303), (185, 114345), (211, 114444), (221, 114486), (222, 114492), (227, 114504), (237, 114567), (251, 114627), (252, 114630), (259, 114657), (272, 114699), (Start: 292 @114762 has 9 MA's), (344, 114882), (351, 114918), (356, 114936), (359, 114951), (373, 115068), (379, 115107), (395, 115227), (403, 115269), (413, 115314), (415, 115323), (428, 115374), (441, 115416), (461, 115482), (464, 115491), (465, 115494), (467, 115500), (468, 115503), (469, 115512), (471, 115518), (474, 115533), (499, 115620), (530, 115725), (541, 115779), (556, 115866), (562, 115896), (572, 115926), (579, 115959), (581, 115968), (592, 116040), (596, 116070), (622, 116187), (632, 116232), (643, 116274), (680, 116418), (702, 116478), (738, 116580), (770, 116667), (772, 116670), (779, 116688), (791, 116724), (792, 116727), (813, 116787), (818, 116805), (851, 116901), (858, 116931), (864, 116949), (876, 116979), (911, 117072), (914, 117087), (939, 117168), (940, 117174), (944, 117186),

Gene: Caliburn_52 Start: 40340, Stop: 36861, Start Num: 66

Candidate Starts for Caliburn_52:

(4, 40550), (Start: 66 @40340 has 166 MA's), (83, 40268), (Start: 89 @40241 has 8 MA's), (91, 40226), (126, 40064), (132, 40037), (134, 40031), (156, 39941), (161, 39926), (173, 39872), (174, 39869), (198, 39773), (226, 39695), (255, 39548), (270, 39509), (282, 39464), (Start: 290 @39443 has 6 MA's), (295, 39428), (321, 39386), (326, 39374), (347, 39308), (350, 39296), (365, 39233), (381, 39104), (382, 39095), (388, 39059), (404, 38975), (407, 38957), (422, 38900), (423, 38897), (426, 38885),

(469, 38747), (471, 38741), (474, 38726), (476, 38720), (485, 38681), (493, 38663), (504, 38609), (514, 38576), (558, 38435), (580, 38354), (581, 38348), (592, 38279), (602, 38216), (618, 38150), (623, 38129), (630, 38111), (645, 38054), (647, 38045), (675, 37937), (678, 37928), (681, 37916), (684, 37895), (697, 37865), (706, 37838), (731, 37772), (733, 37763), (737, 37751), (765, 37664), (776, 37640), (792, 37592), (833, 37448), (855, 37373), (905, 37199), (914, 37163), (928, 37115), (936, 37082), (978, 36938),

Gene: Candle_72 Start: 55921, Stop: 58233, Start Num: 292

Candidate Starts for Candle_72:

(Start: 292 @55921 has 9 MA's), (338, 56017), (345, 56056), (356, 56107), (357, 56110), (358, 56119), (359, 56122), (368, 56152), (373, 56200), (378, 56236), (419, 56470), (427, 56503), (428, 56509), (455, 56569), (475, 56647), (478, 56665), (521, 56830), (530, 56848), (552, 56920), (553, 56923), (557, 56947), (560, 56962), (571, 56992), (632, 57265), (644, 57307), (646, 57313), (648, 57325), (663, 57367), (671, 57397), (673, 57409), (685, 57469), (693, 57493), (715, 57562), (731, 57598), (827, 57721), (828, 57724), (839, 57760), (872, 57859), (882, 57886), (884, 57892), (893, 57922), (928, 58051), (929, 58057), (946, 58114), (951, 58129), (954, 58141), (961, 58159),

Gene: Cane17_200 Start: 116508, Stop: 119903, Start Num: 66

Candidate Starts for Cane17_200:

(Start: 23 @116415 has 44 MA's), (Start: 25 @116421 has 6 MA's), (Start: 32 @116433 has 9 MA's), (38, 116442), (Start: 66 @116508 has 166 MA's), (83, 116583), (104, 116697), (112, 116721), (133, 116781), (162, 116892), (170, 116931), (177, 116955), (185, 116997), (211, 117096), (221, 117138), (222, 117144), (227, 117156), (237, 117219), (251, 117279), (252, 117282), (259, 117309), (272, 117351), (Start: 292 @117414 has 9 MA's), (351, 117570), (356, 117588), (359, 117603), (373, 117720), (379, 117759), (395, 117879), (403, 117921), (413, 117966), (415, 117975), (428, 118026), (441, 118068), (461, 118134), (464, 118143), (465, 118146), (467, 118152), (468, 118155), (469, 118164), (471, 118170), (474, 118185), (499, 118272), (530, 118377), (541, 118431), (556, 118518), (562, 118548), (572, 118578), (579, 118611), (581, 118620), (592, 118692), (596, 118722), (622, 118839), (632, 118884), (643, 118926), (680, 119070), (702, 119130), (738, 119232), (770, 119319), (772, 119322), (779, 119340), (791, 119376), (792, 119379), (813, 119439), (818, 119457), (851, 119553), (858, 119583), (864, 119601), (876, 119631), (911, 119724), (914, 119739), (940, 119826), (944, 119838), (957, 119877),

Gene: Cantare_64 Start: 54042, Stop: 56888, Start Num: 51

Candidate Starts for Cantare_64:

(45, 54024), (Start: 51 @54042 has 2 MA's), (Start: 64 @54060 has 2 MA's), (79, 54120), (83, 54138), (92, 54198), (102, 54243), (108, 54273), (116, 54288), (131, 54345), (145, 54396), (165, 54489), (177, 54528), (184, 54564), (185, 54570), (205, 54645), (207, 54648), (212, 54669), (215, 54678), (218, 54696), (219, 54702), (235, 54780), (237, 54789), (273, 54921), (289, 54972), (Start: 290 @54975 has 6 MA's), (293, 54984), (297, 54996), (333, 55050), (350, 55122), (351, 55128), (370, 55221), (371, 55224), (373, 55236), (376, 55260), (377, 55263), (383, 55326), (397, 55413), (408, 55473), (431, 55548), (448, 55611), (460, 55653), (463, 55662), (466, 55671), (470, 55689), (483, 55752), (499, 55794), (500, 55803), (504, 55827), (505, 55833), (514, 55860), (522, 55881), (554, 55974), (574, 56049), (578, 56067), (580, 56079), (595, 56175), (608, 56235), (609, 56241), (630, 56322), (638, 56352), (668, 56466), (674, 56502), (675, 56511), (692, 56562), (703, 56595), (714, 56634), (737, 56697), (739, 56703), (750, 56757), (762, 56784), (769, 56805), (792, 56871),

Gene: Capablanca_214 Start: 115077, Stop: 118472, Start Num: 66

Candidate Starts for Capablanca_214:

(Start: 23 @114984 has 44 MA's), (Start: 25 @114990 has 6 MA's), (Start: 32 @115002 has 9 MA's), (38, 115011), (Start: 66 @115077 has 166 MA's), (83, 115152), (104, 115266), (112, 115290), (133, 115350), (162, 115461), (170, 115500), (177, 115524), (185, 115566), (211, 115665), (221, 115707), (222, 115713), (227, 115725), (237, 115788), (251, 115848), (252, 115851), (259, 115878), (272,

115920), (Start: 292 @115983 has 9 MA's), (351, 116139), (356, 116157), (359, 116172), (373, 116289), (379, 116328), (395, 116448), (403, 116490), (413, 116535), (415, 116544), (428, 116595), (441, 116637), (461, 116703), (464, 116712), (465, 116715), (467, 116721), (468, 116724), (469, 116733), (471, 116739), (474, 116754), (499, 116841), (530, 116946), (541, 117000), (556, 117087), (562, 117117), (572, 117147), (579, 117180), (581, 117189), (592, 117261), (596, 117291), (622, 117408), (632, 117453), (643, 117495), (680, 117639), (702, 117699), (738, 117801), (770, 117888), (772, 117891), (779, 117909), (791, 117945), (792, 117948), (813, 118008), (818, 118026), (851, 118122), (858, 118152), (864, 118170), (876, 118200), (911, 118293), (914, 118308), (939, 118389), (940, 118395), (944, 118407),

Gene: Caravan_200 Start: 113104, Stop: 116592, Start Num: 23

Candidate Starts for Caravan_200:

(Start: 23 @113104 has 44 MA's), (Start: 25 @113110 has 6 MA's), (Start: 32 @113122 has 9 MA's), (38, 113131), (Start: 66 @113197 has 166 MA's), (83, 113272), (104, 113386), (112, 113410), (133, 113470), (162, 113581), (170, 113620), (177, 113644), (185, 113686), (211, 113785), (221, 113827), (222, 113833), (227, 113845), (237, 113908), (251, 113968), (252, 113971), (259, 113998), (272, 114040), (Start: 292 @114103 has 9 MA's), (351, 114259), (356, 114277), (359, 114292), (373, 114409), (379, 114448), (395, 114568), (403, 114610), (413, 114655), (415, 114664), (428, 114715), (441, 114757), (461, 114823), (464, 114832), (465, 114835), (467, 114841), (468, 114844), (469, 114853), (471, 114859), (474, 114874), (499, 114961), (530, 115066), (541, 115120), (556, 115207), (562, 115237), (572, 115267), (579, 115300), (581, 115309), (592, 115381), (596, 115411), (622, 115528), (632, 115573), (643, 115615), (680, 115759), (702, 115819), (738, 115921), (770, 116008), (772, 116011), (779, 116029), (791, 116065), (792, 116068), (813, 116128), (818, 116146), (851, 116242), (858, 116272), (864, 116290), (876, 116320), (911, 116413), (914, 116428), (939, 116509), (940, 116515), (944, 116527),

Gene: Catera_201 Start: 111590, Stop: 114985, Start Num: 66

Candidate Starts for Catera_201:

(Start: 23 @111497 has 44 MA's), (Start: 25 @111503 has 6 MA's), (Start: 32 @111515 has 9 MA's), (38, 111524), (Start: 66 @111590 has 166 MA's), (83, 111665), (104, 111779), (112, 111803), (133, 111863), (162, 111974), (170, 112013), (177, 112037), (185, 112079), (211, 112178), (221, 112220), (222, 112226), (227, 112238), (237, 112301), (251, 112361), (252, 112364), (259, 112391), (272, 112433), (Start: 292 @112496 has 9 MA's), (344, 112616), (351, 112652), (356, 112670), (359, 112685), (373, 112802), (379, 112841), (395, 112961), (403, 113003), (413, 113048), (415, 113057), (428, 113108), (441, 113150), (461, 113216), (464, 113225), (465, 113228), (467, 113234), (468, 113237), (469, 113246), (471, 113252), (474, 113267), (499, 113354), (530, 113459), (541, 113513), (556, 113600), (562, 113630), (572, 113660), (579, 113693), (581, 113702), (592, 113774), (596, 113804), (622, 113921), (632, 113966), (643, 114008), (680, 114152), (702, 114212), (738, 114314), (770, 114401), (772, 114404), (779, 114422), (791, 114458), (792, 114461), (813, 114521), (818, 114539), (851, 114635), (858, 114665), (864, 114683), (876, 114713), (911, 114806), (914, 114821), (939, 114902), (940, 114908), (944, 114920),

Gene: Cborch11_78 Start: 55192, Stop: 58488, Start Num: 72

Candidate Starts for Cborch11_78:

(Start: 50 @55162 has 1 MA's), (62, 55183), (Start: 72 @55192 has 72 MA's), (84, 55264), (Start: 89 @55288 has 8 MA's), (92, 55321), (127, 55456), (152, 55546), (153, 55549), (158, 55567), (188, 55675), (233, 55867), (296, 56101), (325, 56158), (346, 56257), (352, 56284), (358, 56311), (359, 56314), (378, 56437), (381, 56476), (387, 56518), (401, 56596), (405, 56614), (410, 56632), (412, 56644), (433, 56719), (475, 56875), (496, 56959), (509, 57037), (518, 57058), (520, 57067), (523, 57073), (528, 57082), (550, 57154), (553, 57169), (560, 57208), (564, 57220), (585, 57313), (586, 57319), (594, 57367), (603, 57409), (643, 57559), (646, 57571), (671, 57655), (705, 57796), (742, 57901), (825, 58000), (828, 58009), (852, 58087), (863, 58126), (870, 58141), (885, 58189), (912, 58285), (917, 58303), (926, 58330), (939, 58378), (949, 58408), (950, 58411), (954, 58426), (964,

58456), (966, 58465), (969, 58471), (970, 58474),

Gene: CeilingFan_81 Start: 58332, Stop: 61652, Start Num: 67

Candidate Starts for CeilingFan_81:

(Start: 67 @58332 has 30 MA's), (79, 58383), (84, 58404), (Start: 89 @58428 has 8 MA's), (103, 58509), (157, 58707), (214, 58887), (226, 58935), (227, 58938), (235, 58992), (245, 59043), (249, 59061), (251, 59070), (262, 59106), (295, 59214), (298, 59223), (358, 59433), (371, 59502), (395, 59667), (411, 59745), (428, 59814), (469, 59907), (499, 60030), (521, 60114), (543, 60177), (548, 60186), (592, 60390), (603, 60444), (606, 60453), (610, 60471), (612, 60477), (666, 60669), (672, 60693), (675, 60720), (706, 60828), (760, 61017), (790, 61095), (806, 61137), (809, 61155), (822, 61197), (834, 61236), (835, 61242), (845, 61269), (855, 61308), (870, 61356), (895, 61437), (899, 61458), (907, 61485), (911, 61488), (914, 61503), (923, 61536), (942, 61605),

Gene: Celeste_56 Start: 41488, Stop: 38009, Start Num: 66

Candidate Starts for Celeste_56:

(Start: 32 @41557 has 9 MA's), (Start: 66 @41488 has 166 MA's), (Start: 81 @41425 has 1 MA's), (83, 41416), (91, 41374), (108, 41281), (126, 41212), (143, 41143), (156, 41089), (174, 41017), (182, 40981), (198, 40921), (226, 40843), (255, 40696), (270, 40657), (277, 40630), (282, 40612), (Start: 290 @40591 has 6 MA's), (295, 40576), (347, 40456), (350, 40444), (380, 40258), (381, 40252), (388, 40207), (404, 40123), (407, 40105), (422, 40048), (423, 40045), (426, 40033), (469, 39895), (471, 39889), (474, 39874), (476, 39868), (482, 39835), (504, 39757), (514, 39724), (558, 39583), (564, 39562), (580, 39502), (581, 39496), (592, 39427), (602, 39364), (608, 39343), (618, 39298), (630, 39259), (645, 39202), (647, 39193), (675, 39085), (681, 39064), (684, 39043), (697, 39013), (706, 38986), (731, 38920), (733, 38911), (737, 38899), (765, 38812), (776, 38788), (816, 38644), (833, 38596), (857, 38512), (866, 38485), (905, 38347), (908, 38338), (914, 38311), (928, 38263), (929, 38257), (934, 38236), (936, 38230), (968, 38125), (978, 38086), (985, 38023),

Gene: Celia_53 Start: 38881, Stop: 35396, Start Num: 66

Candidate Starts for Celia_53:

(31, 38950), (36, 38941), (44, 38914), (Start: 66 @38881 has 166 MA's), (73, 38866), (75, 38854), (83, 38806), (86, 38794), (91, 38764), (100, 38713), (108, 38671), (119, 38638), (132, 38575), (164, 38440), (173, 38410), (174, 38407), (183, 38365), (198, 38311), (237, 38167), (255, 38086), (274, 38029), (277, 38020), (282, 38002), (Start: 290 @37981 has 6 MA's), (Start: 292 @37975 has 9 MA's), (321, 37924), (326, 37912), (347, 37846), (350, 37834), (357, 37807), (370, 37732), (380, 37648), (381, 37642), (407, 37495), (422, 37438), (423, 37435), (448, 37366), (450, 37357), (457, 37327), (458, 37324), (469, 37285), (471, 37279), (476, 37258), (482, 37225), (485, 37219), (504, 37147), (514, 37114), (519, 37102), (549, 37021), (558, 36973), (560, 36964), (575, 36919), (576, 36916), (580, 36892), (597, 36787), (602, 36754), (618, 36688), (645, 36592), (647, 36583), (675, 36475), (684, 36433), (697, 36403), (731, 36310), (733, 36301), (737, 36289), (738, 36286), (752, 36223), (760, 36217), (792, 36130), (800, 36109), (807, 36082), (826, 36004), (833, 35983), (849, 35935), (855, 35908), (898, 35764), (909, 35719), (940, 35602), (941, 35599), (968, 35512), (978, 35473), (979, 35467), (985, 35410), (986, 35401),

Gene: Chargie21_206 Start: 111889, Stop: 115284, Start Num: 66

Candidate Starts for Chargie21_206:

(Start: 23 @111796 has 44 MA's), (Start: 25 @111802 has 6 MA's), (Start: 32 @111814 has 9 MA's), (38, 111823), (Start: 66 @111889 has 166 MA's), (83, 111964), (104, 112078), (112, 112102), (133, 112162), (162, 112273), (170, 112312), (177, 112336), (185, 112378), (211, 112477), (221, 112519), (222, 112525), (227, 112537), (237, 112600), (251, 112660), (252, 112663), (259, 112690), (272, 112732), (Start: 292 @112795 has 9 MA's), (344, 112915), (351, 112951), (356, 112969), (359, 112984), (373, 113101), (379, 113140), (395, 113260), (403, 113302), (413, 113347), (415, 113356), (428, 113407), (441, 113449), (461, 113515), (464, 113524), (465, 113527), (467, 113533), (468, 113536), (469, 113545), (471, 113551), (474, 113566), (499, 113653), (530, 113758), (541, 113812),

(556, 113899), (562, 113929), (572, 113959), (579, 113992), (581, 114001), (592, 114073), (596, 114103), (622, 114220), (632, 114265), (643, 114307), (680, 114451), (702, 114511), (738, 114613), (770, 114700), (772, 114703), (779, 114721), (791, 114757), (792, 114760), (813, 114820), (818, 114838), (851, 114934), (858, 114964), (864, 114982), (876, 115012), (911, 115105), (914, 115120), (939, 115201), (940, 115207), (944, 115219),

Gene: CharlieB_203 Start: 112494, Stop: 116012, Start Num: 18

Candidate Starts for CharlieB_203:

(Start: 18 @112494 has 5 MA's), (Start: 23 @112524 has 44 MA's), (Start: 25 @112530 has 6 MA's), (Start: 32 @112542 has 9 MA's), (38, 112551), (Start: 66 @112617 has 166 MA's), (83, 112692), (104, 112806), (112, 112830), (133, 112890), (162, 113001), (170, 113040), (177, 113064), (185, 113106), (211, 113205), (221, 113247), (222, 113253), (227, 113265), (237, 113328), (251, 113388), (252, 113391), (259, 113418), (272, 113460), (Start: 292 @113523 has 9 MA's), (344, 113643), (351, 113679), (356, 113697), (359, 113712), (373, 113829), (379, 113868), (395, 113988), (403, 114030), (413, 114075), (415, 114084), (428, 114135), (441, 114177), (461, 114243), (464, 114252), (465, 114255), (467, 114261), (468, 114264), (469, 114273), (471, 114279), (474, 114294), (499, 114381), (530, 114486), (541, 114540), (556, 114627), (562, 114657), (572, 114687), (579, 114720), (581, 114729), (592, 114801), (596, 114831), (622, 114948), (632, 114993), (643, 115035), (680, 115179), (702, 115239), (738, 115341), (770, 115428), (772, 115431), (779, 115449), (791, 115485), (792, 115488), (813, 115548), (818, 115566), (851, 115662), (858, 115692), (864, 115710), (876, 115740), (911, 115833), (914, 115848), (939, 115929), (940, 115935), (944, 115947),

Gene: ChaylaJr_206 Start: 112317, Stop: 115712, Start Num: 66

Candidate Starts for ChaylaJr_206:

(Start: 23 @112224 has 44 MA's), (Start: 25 @112230 has 6 MA's), (Start: 32 @112242 has 9 MA's), (38, 112251), (Start: 66 @112317 has 166 MA's), (83, 112392), (104, 112506), (112, 112530), (133, 112590), (162, 112701), (170, 112740), (177, 112764), (185, 112806), (211, 112905), (221, 112947), (222, 112953), (227, 112965), (237, 113028), (251, 113088), (252, 113091), (259, 113118), (272, 113160), (Start: 292 @113223 has 9 MA's), (344, 113343), (351, 113379), (356, 113397), (359, 113412), (373, 113529), (379, 113568), (395, 113688), (403, 113730), (413, 113775), (415, 113784), (428, 113835), (441, 113877), (461, 113943), (464, 113952), (465, 113955), (467, 113961), (468, 113964), (469, 113973), (471, 113979), (474, 113994), (499, 114081), (530, 114186), (541, 114240), (556, 114327), (562, 114357), (572, 114387), (579, 114420), (581, 114429), (592, 114501), (596, 114531), (622, 114648), (632, 114693), (643, 114735), (680, 114879), (702, 114939), (738, 115041), (770, 115128), (772, 115131), (779, 115149), (791, 115185), (792, 115188), (813, 115248), (818, 115266), (851, 115362), (858, 115392), (864, 115410), (876, 115440), (911, 115533), (914, 115548), (939, 115629), (940, 115635), (944, 115647),

Gene: CherryTomatoes_154 Start: 105997, Stop: 109452, Start Num: 66

Candidate Starts for CherryTomatoes_154:

(Start: 66 @105997 has 166 MA's), (83, 106072), (133, 106270), (142, 106306), (161, 106378), (163, 106399), (193, 106519), (198, 106543), (201, 106567), (207, 106588), (211, 106615), (221, 106657), (234, 106726), (237, 106738), (251, 106795), (252, 106798), (259, 106825), (Start: 292 @106927 has 9 MA's), (359, 107116), (360, 107119), (363, 107152), (410, 107470), (413, 107485), (414, 107488), (474, 107695), (475, 107698), (476, 107701), (477, 107710), (481, 107728), (499, 107791), (500, 107800), (517, 107863), (542, 107953), (562, 108064), (590, 108202), (592, 108205), (602, 108256), (603, 108259), (624, 108346), (666, 108517), (733, 108739), (806, 108940), (841, 109054), (844, 109063), (851, 109087), (857, 109114), (858, 109117), (864, 109135), (876, 109165), (881, 109183), (892, 109213), (893, 109216), (910, 109255), (911, 109258), (956, 109408),

Gene: ChewyVIII_70 Start: 52283, Stop: 49815, Start Num: 305

Candidate Starts for ChewyVIII_70:

(Start: 305 @52283 has 1 MA's), (345, 52151), (356, 52103), (376, 51977), (378, 51962), (384, 51902), (392, 51863), (405, 51785), (417, 51734), (464, 51611), (492, 51497), (508, 51419), (530, 51380), (535, 51365), (568, 51233), (582, 51152), (603, 51035), (608, 51017), (635, 50909), (636, 50903), (640, 50894), (648, 50858), (661, 50828), (663, 50816), (670, 50789), (671, 50786), (692, 50693), (695, 50681), (701, 50663), (736, 50576), (745, 50534), (766, 50477), (772, 50462), (789, 50408), (805, 50366), (808, 50354), (848, 50234), (849, 50231), (871, 50168), (966, 49844),

Gene: ChickenPhender_205 Start: 112036, Stop: 115431, Start Num: 66

Candidate Starts for ChickenPhender_205:

(Start: 23 @111943 has 44 MA's), (Start: 25 @111949 has 6 MA's), (Start: 32 @111961 has 9 MA's), (38, 111970), (Start: 66 @112036 has 166 MA's), (83, 112111), (104, 112225), (112, 112249), (133, 112309), (162, 112420), (170, 112459), (177, 112483), (185, 112525), (211, 112624), (221, 112666), (222, 112672), (227, 112684), (237, 112747), (251, 112807), (252, 112810), (259, 112837), (272, 112879), (Start: 292 @112942 has 9 MA's), (344, 113062), (351, 113098), (356, 113116), (359, 113131), (373, 113248), (379, 113287), (395, 113407), (403, 113449), (413, 113494), (415, 113503), (428, 113554), (441, 113596), (461, 113662), (464, 113671), (465, 113674), (467, 113680), (468, 113683), (469, 113692), (471, 113698), (474, 113713), (499, 113800), (530, 113905), (541, 113959), (556, 114046), (562, 114076), (572, 114106), (579, 114139), (581, 114148), (592, 114220), (596, 114250), (622, 114367), (632, 114412), (643, 114454), (680, 114598), (702, 114658), (738, 114760), (770, 114847), (772, 114850), (779, 114868), (791, 114904), (792, 114907), (813, 114967), (818, 114985), (851, 115081), (858, 115111), (864, 115129), (876, 115159), (911, 115252), (914, 115267), (939, 115348), (940, 115354), (944, 115366),

Gene: Chidiebere_98 Start: 70671, Stop: 73499, Start Num: 46

Candidate Starts for Chidiebere_98:

(Start: 46 @70671 has 1 MA's), (Start: 51 @70683 has 2 MA's), (Start: 54 @70686 has 8 MA's), (83, 70779), (92, 70839), (131, 70989), (132, 70992), (134, 70998), (158, 71097), (163, 71127), (164, 71130), (180, 71193), (185, 71214), (186, 71217), (193, 71244), (222, 71361), (226, 71370), (235, 71427), (237, 71436), (253, 71502), (273, 71568), (347, 71733), (351, 71751), (355, 71766), (357, 71772), (359, 71784), (367, 71811), (368, 71814), (375, 71874), (376, 71883), (377, 71886), (379, 71898), (382, 71943), (394, 72012), (397, 72036), (432, 72192), (438, 72210), (443, 72234), (448, 72252), (475, 72348), (483, 72390), (487, 72396), (499, 72432), (500, 72441), (503, 72459), (504, 72465), (508, 72489), (512, 72495), (514, 72498), (521, 72516), (522, 72519), (554, 72612), (564, 72657), (566, 72663), (574, 72687), (575, 72690), (577, 72699), (578, 72705), (580, 72717), (600, 72834), (602, 72852), (603, 72855), (606, 72864), (635, 72978), (639, 72993), (675, 73140), (678, 73149), (679, 73152), (681, 73158), (703, 73224), (708, 73242), (712, 73254), (714, 73263), (750, 73377), (754, 73389), (762, 73404), (787, 73479), (791, 73488),

Gene: Chill_69 Start: 49783, Stop: 53085, Start Num: 26

Candidate Starts for Chill_69:

(Start: 26 @49783 has 20 MA's), (Start: 61 @49870 has 1 MA's), (65, 49876), (Start: 72 @49885 has 72 MA's), (Start: 89 @49981 has 8 MA's), (127, 50137), (151, 50224), (152, 50227), (163, 50278), (233, 50542), (240, 50581), (258, 50653), (261, 50662), (283, 50737), (308, 50803), (309, 50809), (329, 50863), (338, 50881), (347, 50932), (348, 50935), (355, 50965), (371, 51049), (376, 51085), (378, 51100), (405, 51277), (435, 51391), (469, 51472), (502, 51607), (508, 51640), (512, 51646), (526, 51667), (530, 51676), (543, 51721), (560, 51790), (565, 51805), (572, 51826), (582, 51874), (592, 51937), (600, 51970), (601, 51973), (602, 51988), (612, 52024), (631, 52099), (666, 52222), (671, 52240), (691, 52318), (692, 52321), (695, 52333), (721, 52399), (724, 52411), (733, 52441), (740, 52462), (801, 52534), (829, 52591), (860, 52690), (882, 52756), (906, 52846), (916, 52876), (917, 52879), (927, 52909), (938, 52954), (951, 52996), (961, 53026), (964, 53038), (969, 53053), (971, 53062),

Gene: ChisanaKitsune_95 Start: 69630, Stop: 72443, Start Num: 54

Candidate Starts for ChisanaKitsune_95:

(Start: 46 @69615 has 1 MA's), (Start: 51 @69627 has 2 MA's), (Start: 54 @69630 has 8 MA's), (83, 69723), (92, 69783), (131, 69933), (132, 69936), (134, 69942), (158, 70041), (163, 70071), (164, 70074), (180, 70137), (185, 70158), (186, 70161), (193, 70188), (222, 70305), (226, 70314), (235, 70371), (237, 70380), (253, 70446), (273, 70512), (280, 70536), (347, 70677), (351, 70695), (355, 70710), (357, 70716), (359, 70728), (367, 70755), (368, 70758), (375, 70818), (376, 70827), (377, 70830), (379, 70842), (382, 70887), (394, 70956), (432, 71136), (438, 71154), (443, 71178), (448, 71196), (475, 71292), (483, 71334), (499, 71376), (500, 71385), (503, 71403), (504, 71409), (508, 71433), (512, 71439), (514, 71442), (521, 71460), (522, 71463), (554, 71556), (564, 71601), (566, 71607), (574, 71631), (575, 71634), (577, 71643), (578, 71649), (580, 71661), (600, 71778), (602, 71796), (603, 71799), (606, 71808), (639, 71937), (675, 72084), (678, 72093), (679, 72096), (681, 72102), (708, 72186), (712, 72198), (714, 72207), (751, 72324), (762, 72348),

Gene: Chivey_58 Start: 40699, Stop: 43002, Start Num: 287

Candidate Starts for Chivey_58:

(Start: 287 @40699 has 29 MA's), (Start: 290 @40705 has 6 MA's), (324, 40783), (344, 40855), (348, 40876), (356, 40909), (358, 40921), (359, 40924), (361, 40942), (364, 40948), (375, 41017), (378, 41041), (381, 41080), (388, 41125), (391, 41137), (405, 41218), (435, 41332), (440, 41344), (471, 41419), (475, 41437), (493, 41515), (496, 41521), (498, 41530), (503, 41563), (508, 41593), (512, 41599), (526, 41620), (530, 41629), (538, 41659), (558, 41734), (560, 41743), (564, 41755), (571, 41773), (575, 41788), (592, 41890), (608, 41962), (614, 41986), (635, 42070), (663, 42160), (666, 42172), (671, 42190), (687, 42268), (688, 42274), (692, 42283), (702, 42316), (729, 42388), (840, 42568), (850, 42598), (868, 42661), (892, 42733), (929, 42856), (938, 42889), (953, 42934), (966, 42979), (969, 42985),

Gene: Chomp_209 Start: 113666, Stop: 117061, Start Num: 66

Candidate Starts for Chomp_209:

(Start: 23 @113573 has 44 MA's), (Start: 25 @113579 has 6 MA's), (Start: 32 @113591 has 9 MA's), (38, 113600), (Start: 66 @113666 has 166 MA's), (83, 113741), (104, 113855), (112, 113879), (133, 113939), (162, 114050), (170, 114089), (177, 114113), (185, 114155), (211, 114254), (221, 114296), (222, 114302), (227, 114314), (237, 114377), (251, 114437), (252, 114440), (259, 114467), (272, 114509), (Start: 292 @114572 has 9 MA's), (344, 114692), (351, 114728), (356, 114746), (359, 114761), (373, 114878), (379, 114917), (395, 115037), (403, 115079), (413, 115124), (415, 115133), (428, 115184), (441, 115226), (461, 115292), (464, 115301), (465, 115304), (467, 115310), (468, 115313), (469, 115322), (471, 115328), (474, 115343), (499, 115430), (530, 115535), (541, 115589), (556, 115676), (562, 115706), (572, 115736), (579, 115769), (581, 115778), (592, 115850), (596, 115880), (622, 115997), (632, 116042), (643, 116084), (680, 116228), (702, 116288), (738, 116390), (770, 116477), (772, 116480), (779, 116498), (791, 116534), (792, 116537), (813, 116597), (818, 116615), (851, 116711), (858, 116741), (864, 116759), (876, 116789), (911, 116882), (914, 116897), (939, 116978), (940, 116984), (944, 116996),

Gene: Chucky_54 Start: 42494, Stop: 39009, Start Num: 66

Candidate Starts for Chucky_54:

(Start: 32 @42563 has 9 MA's), (Start: 66 @42494 has 166 MA's), (Start: 81 @42431 has 1 MA's), (83, 42422), (91, 42380), (108, 42287), (126, 42218), (143, 42149), (156, 42095), (174, 42023), (182, 41987), (198, 41927), (255, 41702), (270, 41663), (277, 41636), (282, 41618), (Start: 290 @41597 has 6 MA's), (295, 41582), (321, 41540), (347, 41462), (350, 41450), (380, 41264), (381, 41258), (388, 41213), (404, 41129), (407, 41111), (422, 41054), (423, 41051), (426, 41039), (469, 40901), (471, 40895), (474, 40880), (476, 40874), (482, 40841), (504, 40763), (514, 40730), (558, 40589), (580, 40508), (581, 40502), (592, 40433), (602, 40370), (608, 40349), (618, 40304), (645, 40208), (647, 40199), (649, 40193), (675, 40091), (678, 40082), (681, 40070), (684, 40049), (697, 40019), (706, 39992), (731, 39926), (733, 39917), (737, 39905), (765, 39818), (816, 39650), (833, 39602), (866, 39491), (869, 39485), (905, 39353), (908, 39344), (914, 39317), (936, 39236), (976, 39104), (978,

39092),

Gene: CindyLou_210 Start: 113926, Stop: 117321, Start Num: 66

Candidate Starts for CindyLou_210:

(Start: 23 @113833 has 44 MA's), (Start: 25 @113839 has 6 MA's), (Start: 32 @113851 has 9 MA's), (38, 113860), (Start: 66 @113926 has 166 MA's), (83, 114001), (104, 114115), (112, 114139), (133, 114199), (162, 114310), (170, 114349), (177, 114373), (185, 114415), (211, 114514), (221, 114556), (222, 114562), (227, 114574), (237, 114637), (251, 114697), (252, 114700), (259, 114727), (272, 114769), (Start: 292 @114832 has 9 MA's), (351, 114988), (356, 115006), (359, 115021), (373, 115138), (379, 115177), (395, 115297), (403, 115339), (413, 115384), (415, 115393), (428, 115444), (441, 115486), (461, 115552), (464, 115561), (465, 115564), (467, 115570), (468, 115573), (469, 115582), (471, 115588), (474, 115603), (499, 115690), (530, 115795), (541, 115849), (556, 115936), (562, 115966), (572, 115996), (579, 116029), (581, 116038), (592, 116110), (596, 116140), (622, 116257), (632, 116302), (643, 116344), (680, 116488), (702, 116548), (738, 116650), (770, 116737), (772, 116740), (779, 116758), (791, 116794), (792, 116797), (813, 116857), (818, 116875), (851, 116971), (858, 117001), (864, 117019), (876, 117049), (911, 117142), (914, 117157), (939, 117238), (940, 117244), (944, 117256),

Gene: Circinus_58 Start: 51862, Stop: 55149, Start Num: 68

Candidate Starts for Circinus_58:

(Start: 68 @51862 has 63 MA's), (75, 51883), (84, 51934), (Start: 89 @51958 has 8 MA's), (106, 52054), (157, 52237), (172, 52297), (199, 52387), (214, 52417), (221, 52450), (223, 52459), (226, 52465), (235, 52522), (249, 52585), (262, 52630), (276, 52678), (358, 52957), (371, 53026), (388, 53158), (395, 53191), (413, 53278), (460, 53374), (471, 53413), (474, 53428), (498, 53524), (499, 53530), (504, 53563), (519, 53608), (521, 53614), (534, 53644), (548, 53686), (557, 53731), (564, 53758), (580, 53821), (592, 53893), (603, 53947), (606, 53956), (610, 53974), (612, 53980), (646, 54106), (663, 54160), (666, 54172), (675, 54223), (702, 54304), (704, 54310), (748, 54466), (822, 54688), (823, 54691), (855, 54799), (857, 54808), (870, 54847), (896, 54937), (911, 54979), (914, 54994), (928, 55042), (951, 55120),

Gene: CoffeeBean_59 Start: 45708, Stop: 42292, Start Num: 72

Candidate Starts for CoffeeBean_59:

(Start: 72 @45708 has 72 MA's), (86, 45627), (Start: 89 @45612 has 8 MA's), (108, 45504), (110, 45498), (127, 45450), (148, 45369), (160, 45327), (217, 45117), (220, 45102), (222, 45093), (229, 45069), (233, 45039), (240, 45000), (261, 44919), (273, 44877), (318, 44742), (347, 44628), (359, 44577), (361, 44559), (365, 44550), (376, 44472), (378, 44457), (381, 44418), (388, 44379), (405, 44286), (417, 44235), (419, 44229), (428, 44190), (471, 44085), (474, 44070), (475, 44067), (502, 43953), (503, 43950), (508, 43920), (521, 43902), (522, 43899), (525, 43893), (527, 43890), (536, 43857), (543, 43836), (582, 43668), (594, 43590), (602, 43551), (603, 43548), (605, 43542), (610, 43524), (634, 43428), (640, 43410), (648, 43374), (671, 43302), (692, 43209), (695, 43197), (718, 43134), (737, 43077), (771, 42948), (781, 42918), (802, 42858), (803, 42855), (817, 42801), (846, 42711), (855, 42675), (874, 42630), (878, 42615), (892, 42573), (902, 42528), (919, 42474), (922, 42465), (927, 42453), (928, 42447), (930, 42429), (948, 42378), (949, 42375), (962, 42333),

Gene: Colt_200 Start: 115739, Stop: 119134, Start Num: 66

Candidate Starts for Colt_200:

(Start: 23 @115646 has 44 MA's), (Start: 25 @115652 has 6 MA's), (Start: 32 @115664 has 9 MA's), (38, 115673), (Start: 66 @115739 has 166 MA's), (83, 115814), (104, 115928), (112, 115952), (133, 116012), (162, 116123), (170, 116162), (177, 116186), (185, 116228), (211, 116327), (221, 116369), (222, 116375), (227, 116387), (237, 116450), (251, 116510), (252, 116513), (259, 116540), (272, 116582), (Start: 292 @116645 has 9 MA's), (351, 116801), (356, 116819), (359, 116834), (373, 116951), (379, 116990), (395, 117110), (403, 117152), (413, 117197), (415, 117206), (428, 117257), (441, 117299), (461, 117365), (464, 117374), (465, 117377), (467, 117383), (468, 117386), (469,

117395), (471, 117401), (474, 117416), (499, 117503), (530, 117608), (541, 117662), (556, 117749), (562, 117779), (572, 117809), (579, 117842), (581, 117851), (592, 117923), (596, 117953), (622, 118070), (632, 118115), (643, 118157), (680, 118301), (702, 118361), (738, 118463), (770, 118550), (772, 118553), (779, 118571), (791, 118607), (792, 118610), (813, 118670), (818, 118688), (851, 118784), (858, 118814), (864, 118832), (876, 118862), (911, 118955), (914, 118970), (940, 119057), (944, 119069), (957, 119108),

Gene: Commandaria_61 Start: 49218, Stop: 45910, Start Num: 72

Candidate Starts for Commandaria_61:

(Start: 72 @49218 has 72 MA's), (84, 49146), (86, 49137), (Start: 89 @49122 has 8 MA's), (94, 49077), (124, 48969), (127, 48960), (160, 48837), (204, 48678), (206, 48672), (212, 48648), (229, 48579), (234, 48540), (261, 48429), (311, 48303), (356, 48132), (361, 48099), (365, 48090), (376, 48012), (378, 47997), (388, 47919), (399, 47859), (404, 47835), (405, 47826), (460, 47661), (502, 47493), (508, 47460), (512, 47454), (521, 47442), (530, 47424), (543, 47379), (593, 47139), (603, 47094), (605, 47088), (610, 47070), (634, 46974), (640, 46956), (648, 46920), (722, 46692), (727, 46680), (741, 46635), (759, 46560), (795, 46476), (831, 46374), (846, 46326), (878, 46230), (879, 46227), (888, 46203), (927, 46068), (929, 46056), (951, 45987), (962, 45951),

Gene: Comrade_61 Start: 49851, Stop: 53141, Start Num: 68

Candidate Starts for Comrade_61:

(55, 49833), (Start: 68 @49851 has 63 MA's), (75, 49872), (79, 49902), (84, 49923), (88, 49941), (Start: 89 @49947 has 8 MA's), (129, 50115), (140, 50157), (157, 50226), (172, 50286), (210, 50400), (214, 50406), (235, 50511), (249, 50574), (250, 50580), (262, 50619), (328, 50808), (334, 50835), (357, 50937), (371, 51015), (407, 51243), (416, 51279), (460, 51363), (471, 51402), (497, 51507), (499, 51519), (504, 51552), (512, 51582), (514, 51585), (519, 51597), (521, 51603), (548, 51675), (562, 51741), (564, 51747), (580, 51810), (592, 51882), (603, 51936), (606, 51945), (610, 51963), (612, 51969), (643, 52083), (663, 52149), (666, 52161), (678, 52221), (679, 52224), (698, 52281), (700, 52287), (704, 52299), (714, 52335), (737, 52404), (799, 52602), (809, 52635), (820, 52671), (822, 52677), (826, 52689), (855, 52788), (857, 52797), (864, 52818), (874, 52848), (892, 52905), (911, 52968), (925, 53019), (928, 53031),

Gene: Concombres_214 Start: 115529, Stop: 118924, Start Num: 66

Candidate Starts for Concombres_214:

(Start: 23 @115436 has 44 MA's), (Start: 25 @115442 has 6 MA's), (Start: 32 @115454 has 9 MA's), (38, 115463), (Start: 66 @115529 has 166 MA's), (83, 115604), (104, 115718), (112, 115742), (133, 115802), (162, 115913), (170, 115952), (177, 115976), (185, 116018), (211, 116117), (221, 116159), (222, 116165), (227, 116177), (237, 116240), (251, 116300), (252, 116303), (259, 116330), (272, 116372), (Start: 292 @116435 has 9 MA's), (351, 116591), (356, 116609), (359, 116624), (373, 116741), (379, 116780), (395, 116900), (403, 116942), (413, 116987), (415, 116996), (428, 117047), (441, 117089), (461, 117155), (464, 117164), (465, 117167), (467, 117173), (468, 117176), (469, 117185), (471, 117191), (474, 117206), (499, 117293), (530, 117398), (541, 117452), (556, 117539), (562, 117569), (572, 117599), (579, 117632), (581, 117641), (592, 117713), (596, 117743), (622, 117860), (632, 117905), (643, 117947), (680, 118091), (702, 118151), (738, 118253), (770, 118340), (772, 118343), (779, 118361), (791, 118397), (792, 118400), (813, 118460), (818, 118478), (851, 118574), (858, 118604), (864, 118622), (876, 118652), (911, 118745), (914, 118760), (939, 118841), (940, 118847), (944, 118859),

Gene: CoolCookie_56 Start: 41279, Stop: 43582, Start Num: 287

Candidate Starts for CoolCookie_56:

(Start: 287 @41279 has 29 MA's), (Start: 290 @41285 has 6 MA's), (324, 41363), (344, 41435), (348, 41456), (356, 41489), (358, 41501), (359, 41504), (361, 41522), (375, 41597), (378, 41621), (381, 41660), (388, 41705), (391, 41717), (405, 41798), (435, 41912), (440, 41924), (471, 41999), (475, 42017), (493, 42095), (496, 42101), (498, 42110), (503, 42143), (508, 42173), (512, 42179), (526,

42200), (530, 42209), (538, 42239), (558, 42314), (560, 42323), (570, 42347), (571, 42353), (572, 42359), (575, 42368), (592, 42470), (608, 42542), (614, 42566), (635, 42650), (663, 42740), (666, 42752), (671, 42770), (687, 42848), (688, 42854), (692, 42863), (702, 42896), (729, 42968), (840, 43148), (850, 43178), (868, 43241), (892, 43313), (929, 43436), (938, 43469), (953, 43514), (966, 43559), (969, 43565),

Gene: Crestdrop_57 Start: 40973, Stop: 43273, Start Num: 287

Candidate Starts for Crestdrop_57:

(Start: 287 @40973 has 29 MA's), (Start: 290 @40979 has 6 MA's), (324, 41054), (344, 41126), (348, 41147), (356, 41180), (358, 41192), (361, 41213), (364, 41219), (375, 41288), (378, 41312), (381, 41351), (391, 41408), (405, 41489), (435, 41603), (440, 41615), (471, 41690), (475, 41708), (493, 41786), (496, 41792), (498, 41801), (503, 41834), (508, 41864), (512, 41870), (526, 41891), (530, 41900), (538, 41930), (558, 42005), (560, 42014), (570, 42038), (571, 42044), (575, 42059), (592, 42161), (608, 42233), (614, 42257), (635, 42341), (663, 42431), (666, 42443), (671, 42461), (687, 42539), (688, 42545), (692, 42554), (702, 42587), (729, 42659), (840, 42839), (850, 42869), (868, 42932), (892, 43004), (929, 43127), (938, 43160), (953, 43205), (966, 43250), (969, 43256),

Gene: Cross_80 Start: 59163, Stop: 62447, Start Num: 68

Candidate Starts for Cross_80:

(Start: 68 @59163 has 63 MA's), (78, 59208), (84, 59238), (88, 59256), (Start: 89 @59262 has 8 MA's), (157, 59541), (182, 59643), (214, 59721), (235, 59826), (249, 59889), (250, 59895), (262, 59934), (298, 60051), (330, 60135), (358, 60261), (367, 60291), (371, 60330), (372, 60339), (403, 60537), (471, 60717), (497, 60822), (498, 60828), (499, 60834), (521, 60918), (534, 60948), (548, 60990), (554, 61017), (560, 61050), (564, 61062), (580, 61125), (592, 61197), (603, 61251), (606, 61260), (608, 61269), (610, 61278), (612, 61284), (675, 61527), (698, 61596), (702, 61608), (735, 61713), (795, 61908), (807, 61941), (822, 61992), (834, 62031), (835, 62037), (855, 62103), (870, 62151), (881, 62187), (895, 62232), (896, 62241), (911, 62283), (922, 62328), (923, 62331), (928, 62346),

Gene: Cruella_43 Start: 41952, Stop: 38659, Start Num: 72

Candidate Starts for Cruella_43:

(Start: 72 @41952 has 72 MA's), (80, 41895), (86, 41871), (Start: 89 @41856 has 8 MA's), (90, 41847), (127, 41700), (191, 41418), (204, 41340), (220, 41274), (278, 41031), (323, 40926), (347, 40824), (358, 40776), (376, 40671), (378, 40656), (391, 40560), (444, 40341), (445, 40338), (455, 40323), (468, 40293), (474, 40263), (502, 40146), (508, 40113), (525, 40086), (534, 40062), (571, 39915), (572, 39909), (580, 39873), (582, 39861), (585, 39840), (601, 39765), (603, 39747), (648, 39570), (661, 39540), (667, 39513), (671, 39498), (719, 39369), (746, 39336), (786, 39249), (829, 39135), (831, 39129), (834, 39117), (885, 38967), (886, 38964), (888, 38958), (893, 38940), (895, 38931), (929, 38811), (935, 38787), (946, 38751), (948, 38745),

Gene: Cursive_78 Start: 58688, Stop: 61972, Start Num: 68

Candidate Starts for Cursive_78:

(Start: 68 @58688 has 63 MA's), (78, 58733), (84, 58763), (88, 58781), (Start: 89 @58787 has 8 MA's), (157, 59066), (182, 59168), (214, 59246), (235, 59351), (249, 59414), (250, 59420), (262, 59459), (298, 59576), (330, 59660), (358, 59786), (367, 59816), (371, 59855), (372, 59864), (403, 60062), (471, 60242), (497, 60347), (498, 60353), (499, 60359), (521, 60443), (534, 60473), (548, 60515), (554, 60542), (560, 60575), (564, 60587), (580, 60650), (592, 60722), (603, 60776), (606, 60785), (608, 60794), (610, 60803), (612, 60809), (675, 61052), (698, 61121), (702, 61133), (735, 61238), (795, 61433), (807, 61466), (822, 61517), (834, 61556), (835, 61562), (855, 61628), (870, 61676), (881, 61712), (895, 61757), (896, 61766), (911, 61808), (922, 61853), (923, 61856), (928, 61871),

Gene: Cybele_57 Start: 41252, Stop: 43555, Start Num: 287

Candidate Starts for Cybele_57:

(Start: 287 @41252 has 29 MA's), (Start: 290 @41258 has 6 MA's), (324, 41336), (344, 41408), (348, 41429), (356, 41462), (358, 41474), (359, 41477), (361, 41495), (375, 41570), (378, 41594), (381, 41633), (388, 41678), (391, 41690), (405, 41771), (435, 41885), (440, 41897), (471, 41972), (475, 41990), (493, 42068), (496, 42074), (498, 42083), (503, 42116), (508, 42146), (512, 42152), (526, 42173), (530, 42182), (538, 42212), (558, 42287), (560, 42296), (570, 42320), (571, 42326), (572, 42332), (575, 42341), (592, 42443), (608, 42515), (614, 42539), (635, 42623), (663, 42713), (666, 42725), (671, 42743), (687, 42821), (688, 42827), (692, 42836), (702, 42869), (729, 42941), (840, 43121), (850, 43151), (868, 43214), (892, 43286), (929, 43409), (938, 43442), (953, 43487), (966, 43532), (969, 43538),

Gene: DTDevon_211 Start: 114322, Stop: 117810, Start Num: 23

Candidate Starts for DTDevon_211:

(Start: 23 @114322 has 44 MA's), (Start: 25 @114328 has 6 MA's), (Start: 32 @114340 has 9 MA's), (38, 114349), (Start: 66 @114415 has 166 MA's), (83, 114490), (104, 114604), (112, 114628), (133, 114688), (162, 114799), (170, 114838), (177, 114862), (185, 114904), (211, 115003), (221, 115045), (222, 115051), (227, 115063), (237, 115126), (251, 115186), (252, 115189), (259, 115216), (272, 115258), (Start: 292 @115321 has 9 MA's), (351, 115477), (356, 115495), (359, 115510), (373, 115627), (379, 115666), (395, 115786), (403, 115828), (413, 115873), (415, 115882), (428, 115933), (441, 115975), (461, 116041), (464, 116050), (465, 116053), (467, 116059), (468, 116062), (469, 116071), (471, 116077), (474, 116092), (499, 116179), (530, 116284), (541, 116338), (556, 116425), (562, 116455), (572, 116485), (579, 116518), (581, 116527), (592, 116599), (596, 116629), (622, 116746), (632, 116791), (643, 116833), (680, 116977), (702, 117037), (738, 117139), (770, 117226), (772, 117229), (779, 117247), (791, 117283), (792, 117286), (813, 117346), (818, 117364), (851, 117460), (858, 117490), (864, 117508), (876, 117538), (911, 117631), (914, 117646), (939, 117727), (940, 117733), (944, 117745),

Gene: Daffodil_214 Start: 113287, Stop: 116775, Start Num: 23

Candidate Starts for Daffodil_214:

(Start: 23 @113287 has 44 MA's), (Start: 25 @113293 has 6 MA's), (Start: 32 @113305 has 9 MA's), (38, 113314), (Start: 66 @113380 has 166 MA's), (83, 113455), (104, 113569), (112, 113593), (133, 113653), (162, 113764), (170, 113803), (177, 113827), (185, 113869), (211, 113968), (221, 114010), (222, 114016), (227, 114028), (237, 114091), (251, 114151), (252, 114154), (259, 114181), (272, 114223), (Start: 292 @114286 has 9 MA's), (344, 114406), (351, 114442), (356, 114460), (359, 114475), (373, 114592), (379, 114631), (395, 114751), (403, 114793), (413, 114838), (415, 114847), (428, 114898), (441, 114940), (461, 115006), (464, 115015), (465, 115018), (467, 115024), (468, 115027), (469, 115036), (471, 115042), (474, 115057), (499, 115144), (530, 115249), (541, 115303), (556, 115390), (562, 115420), (572, 115450), (579, 115483), (581, 115492), (592, 115564), (596, 115594), (622, 115711), (632, 115756), (643, 115798), (680, 115942), (702, 116002), (738, 116104), (770, 116191), (772, 116194), (779, 116212), (791, 116248), (792, 116251), (813, 116311), (818, 116329), (851, 116425), (858, 116455), (864, 116473), (876, 116503), (911, 116596), (914, 116611), (939, 116692), (940, 116698), (944, 116710),

Gene: DalanDe_85 Start: 69803, Stop: 72664, Start Num: 51

Candidate Starts for DalanDe_85:

(Start: 51 @69803 has 2 MA's), (83, 69899), (88, 69923), (92, 69962), (94, 69974), (96, 69980), (98, 69986), (108, 70037), (118, 70064), (158, 70223), (180, 70319), (184, 70334), (193, 70370), (194, 70376), (208, 70424), (214, 70442), (215, 70445), (225, 70487), (235, 70547), (237, 70556), (248, 70604), (261, 70646), (264, 70658), (Start: 285 @70733 has 3 MA's), (351, 70895), (358, 70925), (359, 70928), (373, 71003), (375, 71018), (383, 71093), (388, 71126), (396, 71177), (429, 71324), (436, 71348), (459, 71435), (466, 71456), (475, 71495), (483, 71537), (499, 71579), (500, 71588), (504, 71612), (508, 71636), (512, 71642), (514, 71645), (548, 71729), (564, 71804), (574, 71834), (578, 71852), (580, 71864), (598, 71972), (605, 72008), (609, 72026), (611, 72032), (639, 72140), (675, 72287), (678, 72296), (706, 72383), (712, 72401), (723, 72431), (724, 72434), (733, 72464), (742,

72491), (749, 72515), (762, 72551), (769, 72572), (793, 72641), (799, 72659),

Gene: Dalilpop_64 Start: 50147, Stop: 46866, Start Num: 72

Candidate Starts for Dalilpop_64:

(7, 50339), (Start: 68 @50153 has 63 MA's), (Start: 72 @50147 has 72 MA's), (86, 50066), (Start: 89 @50051 has 8 MA's), (94, 50006), (124, 49895), (127, 49886), (144, 49820), (160, 49763), (198, 49637), (206, 49598), (212, 49574), (218, 49547), (222, 49529), (226, 49520), (234, 49466), (Start: 292 @49253 has 9 MA's), (311, 49229), (376, 48935), (378, 48920), (444, 48602), (460, 48578), (475, 48521), (502, 48410), (503, 48407), (530, 48341), (535, 48326), (586, 48107), (593, 48059), (602, 48017), (603, 48014), (605, 48008), (610, 47990), (634, 47894), (640, 47876), (648, 47840), (692, 47675), (701, 47645), (711, 47615), (758, 47528), (759, 47522), (795, 47435), (817, 47375), (831, 47333), (878, 47189), (879, 47186), (888, 47162), (951, 46946), (962, 46910), (971, 46880),

Gene: Damien_77 Start: 55598, Stop: 58798, Start Num: 89

Candidate Starts for Damien_77:

(Start: 50 @55472 has 1 MA's), (62, 55493), (Start: 72 @55502 has 72 MA's), (84, 55574), (Start: 89 @55598 has 8 MA's), (92, 55631), (127, 55766), (152, 55856), (153, 55859), (158, 55877), (188, 55985), (233, 56177), (296, 56411), (325, 56468), (346, 56567), (352, 56594), (358, 56621), (359, 56624), (373, 56702), (378, 56747), (381, 56786), (387, 56828), (401, 56906), (405, 56924), (410, 56942), (412, 56954), (433, 57029), (475, 57185), (496, 57269), (509, 57347), (518, 57368), (520, 57377), (523, 57383), (528, 57392), (550, 57464), (553, 57479), (560, 57518), (564, 57530), (585, 57623), (586, 57629), (594, 57677), (603, 57719), (643, 57869), (646, 57881), (671, 57965), (705, 58106), (742, 58211), (825, 58310), (828, 58319), (852, 58397), (863, 58436), (870, 58451), (885, 58499), (912, 58595), (917, 58613), (926, 58640), (939, 58688), (949, 58718), (950, 58721), (954, 58736), (964, 58766), (966, 58775), (969, 58781), (970, 58784),

Gene: Dandelion_217 Start: 116920, Stop: 120408, Start Num: 23

Candidate Starts for Dandelion_217:

(Start: 23 @116920 has 44 MA's), (Start: 25 @116926 has 6 MA's), (Start: 32 @116938 has 9 MA's), (38, 116947), (Start: 66 @117013 has 166 MA's), (83, 117088), (104, 117202), (112, 117226), (133, 117286), (162, 117397), (170, 117436), (177, 117460), (185, 117502), (187, 117508), (211, 117601), (221, 117643), (222, 117649), (227, 117661), (237, 117724), (251, 117784), (252, 117787), (259, 117814), (272, 117856), (Start: 292 @117919 has 9 MA's), (351, 118075), (356, 118093), (359, 118108), (373, 118225), (379, 118264), (395, 118384), (403, 118426), (413, 118471), (415, 118480), (428, 118531), (441, 118573), (461, 118639), (464, 118648), (465, 118651), (467, 118657), (468, 118660), (469, 118669), (471, 118675), (474, 118690), (499, 118777), (530, 118882), (541, 118936), (556, 119023), (562, 119053), (572, 119083), (579, 119116), (581, 119125), (592, 119197), (596, 119227), (622, 119344), (632, 119389), (643, 119431), (680, 119575), (702, 119635), (738, 119737), (770, 119824), (772, 119827), (779, 119845), (791, 119881), (792, 119884), (813, 119944), (818, 119962), (851, 120058), (858, 120088), (864, 120106), (876, 120136), (911, 120229), (914, 120244), (939, 120325), (940, 120331), (944, 120343),

Gene: DannyDe_58 Start: 40700, Stop: 43003, Start Num: 287

Candidate Starts for DannyDe_58:

(Start: 287 @40700 has 29 MA's), (Start: 290 @40706 has 6 MA's), (324, 40784), (344, 40856), (348, 40877), (356, 40910), (358, 40922), (359, 40925), (361, 40943), (364, 40949), (375, 41018), (378, 41042), (381, 41081), (388, 41126), (391, 41138), (405, 41219), (435, 41333), (440, 41345), (471, 41420), (475, 41438), (493, 41516), (496, 41522), (498, 41531), (503, 41564), (508, 41594), (512, 41600), (526, 41621), (530, 41630), (538, 41660), (558, 41735), (560, 41744), (570, 41768), (571, 41774), (572, 41780), (575, 41789), (592, 41891), (608, 41963), (614, 41987), (635, 42071), (663, 42161), (666, 42173), (671, 42191), (687, 42269), (688, 42275), (692, 42284), (702, 42317), (729, 42389), (840, 42569), (850, 42599), (868, 42662), (892, 42734), (929, 42857), (938, 42890), (953, 42935), (966, 42980), (969, 42986),

Gene: Danzina_56 Start: 41718, Stop: 38236, Start Num: 66

Candidate Starts for Danzina_56:

(Start: 25 @41802 has 6 MA's), (56, 41733), (Start: 66 @41718 has 166 MA's), (83, 41643), (84, 41640), (Start: 89 @41616 has 8 MA's), (92, 41583), (105, 41526), (108, 41508), (126, 41439), (143, 41370), (156, 41316), (174, 41244), (182, 41208), (198, 41148), (226, 41070), (255, 40923), (270, 40884), (277, 40857), (282, 40839), (Start: 290 @40818 has 6 MA's), (295, 40803), (347, 40683), (350, 40671), (380, 40485), (381, 40479), (388, 40434), (404, 40350), (407, 40332), (422, 40275), (423, 40272), (426, 40260), (469, 40122), (471, 40116), (474, 40101), (476, 40095), (482, 40062), (504, 39984), (514, 39951), (558, 39810), (564, 39789), (580, 39729), (581, 39723), (592, 39654), (602, 39591), (608, 39570), (618, 39525), (630, 39486), (645, 39429), (647, 39420), (675, 39312), (681, 39291), (684, 39270), (697, 39240), (706, 39213), (731, 39147), (733, 39138), (737, 39126), (765, 39039), (816, 38871), (833, 38823), (857, 38739), (866, 38712), (905, 38574), (908, 38565), (914, 38538), (928, 38490), (929, 38484), (934, 38463), (936, 38457), (968, 38352), (978, 38313), (985, 38250),

Gene: Darko_208 Start: 112614, Stop: 116009, Start Num: 66

Candidate Starts for Darko_208:

(Start: 23 @112521 has 44 MA's), (Start: 25 @112527 has 6 MA's), (Start: 32 @112539 has 9 MA's), (38, 112548), (Start: 66 @112614 has 166 MA's), (83, 112689), (104, 112803), (112, 112827), (133, 112887), (162, 112998), (170, 113037), (177, 113061), (185, 113103), (211, 113202), (221, 113244), (222, 113250), (227, 113262), (237, 113325), (251, 113385), (252, 113388), (259, 113415), (272, 113457), (Start: 292 @113520 has 9 MA's), (351, 113676), (356, 113694), (359, 113709), (373, 113826), (379, 113865), (395, 113985), (403, 114027), (413, 114072), (415, 114081), (428, 114132), (441, 114174), (461, 114240), (464, 114249), (465, 114252), (467, 114258), (468, 114261), (469, 114270), (471, 114276), (474, 114291), (499, 114378), (530, 114483), (541, 114537), (556, 114624), (562, 114654), (572, 114684), (579, 114717), (581, 114726), (592, 114798), (596, 114828), (622, 114945), (632, 114990), (643, 115032), (680, 115176), (702, 115236), (738, 115338), (770, 115425), (772, 115428), (779, 115446), (791, 115482), (792, 115485), (813, 115545), (818, 115563), (851, 115659), (858, 115689), (864, 115707), (876, 115737), (911, 115830), (914, 115845), (939, 115926), (940, 115932), (944, 115944),

Gene: Darwin_47 Start: 41830, Stop: 38537, Start Num: 72

Candidate Starts for Darwin_47:

(Start: 72 @41830 has 72 MA's), (80, 41773), (86, 41749), (Start: 89 @41734 has 8 MA's), (90, 41725), (127, 41578), (158, 41458), (191, 41296), (204, 41218), (278, 40909), (323, 40804), (347, 40702), (358, 40654), (378, 40534), (391, 40438), (444, 40219), (445, 40216), (455, 40201), (468, 40171), (474, 40141), (502, 40024), (508, 39991), (525, 39964), (534, 39940), (561, 39835), (571, 39793), (582, 39739), (585, 39718), (601, 39643), (603, 39625), (636, 39493), (648, 39448), (661, 39418), (667, 39391), (671, 39376), (719, 39247), (746, 39214), (786, 39127), (797, 39100), (829, 39013), (831, 39007), (834, 38995), (885, 38845), (886, 38842), (888, 38836), (893, 38818), (895, 38809), (898, 38791), (929, 38689), (935, 38665), (946, 38629), (948, 38623), (962, 38578),

Gene: Dattran_57 Start: 41879, Stop: 38400, Start Num: 66

Candidate Starts for Dattran_57:

(Start: 32 @41948 has 9 MA's), (Start: 66 @41879 has 166 MA's), (Start: 81 @41816 has 1 MA's), (83, 41807), (91, 41765), (108, 41672), (126, 41603), (143, 41534), (156, 41480), (174, 41408), (182, 41372), (198, 41312), (226, 41234), (255, 41087), (270, 41048), (277, 41021), (282, 41003), (Start: 290 @40982 has 6 MA's), (295, 40967), (347, 40847), (350, 40835), (380, 40649), (381, 40643), (388, 40598), (404, 40514), (407, 40496), (422, 40439), (423, 40436), (426, 40424), (469, 40286), (471, 40280), (474, 40265), (476, 40259), (482, 40226), (504, 40148), (514, 40115), (558, 39974), (580, 39893), (581, 39887), (592, 39818), (602, 39755), (608, 39734), (618, 39689), (630, 39650), (645, 39593), (647, 39584), (675, 39476), (681, 39455), (684, 39434), (697, 39404), (706, 39377), (731,

39311), (733, 39302), (737, 39290), (765, 39203), (776, 39179), (816, 39035), (833, 38987), (857, 38903), (866, 38876), (905, 38738), (908, 38729), (914, 38702), (928, 38654), (929, 38648), (934, 38627), (936, 38621), (968, 38516), (976, 38489), (978, 38477), (985, 38414),

Gene: Daubenski_81 Start: 58913, Stop: 62197, Start Num: 68

Candidate Starts for Daubenski_81:

(20, 58784), (42, 58856), (Start: 68 @58913 has 63 MA's), (78, 58958), (84, 58988), (Start: 89 @59012 has 8 MA's), (157, 59291), (182, 59393), (189, 59420), (214, 59471), (216, 59483), (235, 59576), (249, 59639), (250, 59645), (262, 59684), (276, 59732), (298, 59801), (328, 59873), (334, 59900), (358, 60011), (371, 60080), (402, 60284), (425, 60374), (455, 60419), (471, 60467), (474, 60482), (497, 60572), (498, 60578), (499, 60584), (521, 60668), (543, 60731), (548, 60740), (564, 60812), (580, 60875), (592, 60947), (603, 61001), (606, 61010), (608, 61019), (610, 61028), (612, 61034), (632, 61115), (675, 61277), (698, 61346), (702, 61358), (738, 61472), (795, 61658), (807, 61691), (809, 61700), (822, 61742), (835, 61787), (855, 61853), (870, 61901), (881, 61937), (895, 61982), (907, 62030), (911, 62033), (919, 62069), (923, 62081), (928, 62096),

Gene: Dauntless_56 Start: 40834, Stop: 43134, Start Num: 287

Candidate Starts for Dauntless_56:

(Start: 287 @40834 has 29 MA's), (Start: 290 @40840 has 6 MA's), (324, 40915), (344, 40987), (348, 41008), (356, 41041), (358, 41053), (359, 41056), (361, 41074), (364, 41080), (375, 41149), (378, 41173), (381, 41212), (391, 41269), (405, 41350), (435, 41464), (440, 41476), (471, 41551), (475, 41569), (493, 41647), (496, 41653), (498, 41662), (503, 41695), (508, 41725), (512, 41731), (526, 41752), (530, 41761), (538, 41791), (558, 41866), (560, 41875), (570, 41899), (571, 41905), (575, 41920), (592, 42022), (608, 42094), (614, 42118), (635, 42202), (663, 42292), (666, 42304), (671, 42322), (687, 42400), (688, 42406), (692, 42415), (702, 42448), (729, 42520), (840, 42700), (850, 42730), (868, 42793), (892, 42865), (918, 42949), (929, 42988), (938, 43021), (953, 43066), (966, 43111), (969, 43117),

Gene: DaviePasture_79 Start: 51941, Stop: 55282, Start Num: 69

Candidate Starts for DaviePasture_79:

(41, 51893), (Start: 69 @51941 has 20 MA's), (Start: 81 @52001 has 1 MA's), (Start: 89 @52037 has 8 MA's), (94, 52082), (104, 52124), (173, 52385), (204, 52487), (213, 52520), (233, 52616), (304, 52886), (Start: 307 @52895 has 8 MA's), (338, 53003), (346, 53048), (356, 53090), (378, 53222), (379, 53225), (380, 53255), (395, 53345), (405, 53399), (430, 53498), (435, 53513), (455, 53555), (502, 53729), (508, 53762), (521, 53780), (522, 53783), (530, 53798), (543, 53843), (544, 53846), (571, 53942), (580, 53984), (582, 53996), (587, 54032), (629, 54212), (640, 54254), (648, 54290), (666, 54344), (671, 54362), (692, 54458), (695, 54470), (794, 54659), (829, 54749), (862, 54854), (867, 54869), (879, 54905), (882, 54917), (884, 54923), (885, 54926), (893, 54953), (903, 54998), (935, 55106), (950, 55151), (958, 55175), (969, 55211),

Gene: DeejaClivia_197 Start: 111749, Stop: 115144, Start Num: 66

Candidate Starts for DeejaClivia_197:

(Start: 23 @111656 has 44 MA's), (Start: 25 @111662 has 6 MA's), (Start: 32 @111674 has 9 MA's), (38, 111683), (Start: 66 @111749 has 166 MA's), (83, 111824), (104, 111938), (112, 111962), (133, 112022), (162, 112133), (170, 112172), (177, 112196), (185, 112238), (211, 112337), (221, 112379), (222, 112385), (227, 112397), (237, 112460), (251, 112520), (252, 112523), (259, 112550), (272, 112592), (Start: 292 @112655 has 9 MA's), (344, 112775), (351, 112811), (356, 112829), (359, 112844), (373, 112961), (379, 113000), (395, 113120), (403, 113162), (413, 113207), (415, 113216), (428, 113267), (441, 113309), (461, 113375), (464, 113384), (465, 113387), (467, 113393), (468, 113396), (469, 113405), (471, 113411), (474, 113426), (499, 113513), (530, 113618), (541, 113672), (556, 113759), (562, 113789), (572, 113819), (579, 113852), (581, 113861), (592, 113933), (596, 113963), (622, 114080), (632, 114125), (643, 114167), (680, 114311), (702, 114371), (738, 114473), (770, 114560), (772, 114563), (779, 114581), (791, 114617), (792, 114620), (813, 114680), (818,

114698), (851, 114794), (858, 114824), (864, 114842), (876, 114872), (911, 114965), (914, 114980), (939, 115061), (940, 115067), (944, 115079),

Gene: Delilah_207 Start: 113498, Stop: 116893, Start Num: 66

Candidate Starts for Delilah_207:

(Start: 23 @113405 has 44 MA's), (Start: 25 @113411 has 6 MA's), (Start: 32 @113423 has 9 MA's), (38, 113432), (Start: 66 @113498 has 166 MA's), (83, 113573), (104, 113687), (112, 113711), (133, 113771), (162, 113882), (170, 113921), (177, 113945), (185, 113987), (211, 114086), (221, 114128), (222, 114134), (227, 114146), (237, 114209), (251, 114269), (252, 114272), (259, 114299), (272, 114341), (Start: 292 @114404 has 9 MA's), (344, 114524), (351, 114560), (356, 114578), (359, 114593), (373, 114710), (379, 114749), (395, 114869), (403, 114911), (413, 114956), (415, 114965), (428, 115016), (441, 115058), (461, 115124), (464, 115133), (465, 115136), (467, 115142), (468, 115145), (469, 115154), (471, 115160), (474, 115175), (499, 115262), (530, 115367), (541, 115421), (556, 115508), (562, 115538), (572, 115568), (579, 115601), (581, 115610), (592, 115682), (596, 115712), (622, 115829), (632, 115874), (643, 115916), (680, 116060), (702, 116120), (738, 116222), (770, 116309), (772, 116312), (779, 116330), (791, 116366), (792, 116369), (813, 116429), (818, 116447), (851, 116543), (858, 116573), (864, 116591), (876, 116621), (911, 116714), (914, 116729), (939, 116810), (940, 116816), (944, 116828),

Gene: Delton_67 Start: 50148, Stop: 53450, Start Num: 26

Candidate Starts for Delton_67:

(Start: 26 @50148 has 20 MA's), (Start: 61 @50235 has 1 MA's), (65, 50241), (Start: 72 @50250 has 72 MA's), (Start: 89 @50346 has 8 MA's), (127, 50502), (151, 50589), (152, 50592), (163, 50643), (233, 50907), (240, 50946), (258, 51018), (261, 51027), (283, 51102), (308, 51168), (309, 51174), (329, 51228), (338, 51246), (347, 51297), (348, 51300), (355, 51330), (371, 51414), (372, 51423), (376, 51450), (378, 51465), (405, 51642), (407, 51651), (435, 51756), (469, 51837), (482, 51897), (502, 51972), (508, 52005), (512, 52011), (526, 52032), (530, 52041), (543, 52086), (560, 52155), (565, 52170), (582, 52239), (592, 52302), (600, 52335), (601, 52338), (612, 52389), (631, 52464), (666, 52587), (671, 52605), (691, 52683), (692, 52686), (695, 52698), (710, 52743), (721, 52764), (724, 52776), (733, 52806), (740, 52827), (801, 52899), (829, 52956), (860, 53055), (882, 53121), (906, 53211), (916, 53241), (917, 53244), (927, 53274), (938, 53319), (951, 53361), (961, 53391), (964, 53403), (969, 53418), (971, 53427),

Gene: Delylah_211 Start: 113694, Stop: 117182, Start Num: 23

Candidate Starts for Delylah_211:

(Start: 23 @113694 has 44 MA's), (Start: 25 @113700 has 6 MA's), (Start: 32 @113712 has 9 MA's), (38, 113721), (Start: 66 @113787 has 166 MA's), (83, 113862), (104, 113976), (112, 114000), (133, 114060), (162, 114171), (170, 114210), (177, 114234), (185, 114276), (211, 114375), (221, 114417), (222, 114423), (227, 114435), (237, 114498), (251, 114558), (252, 114561), (259, 114588), (272, 114630), (Start: 292 @114693 has 9 MA's), (351, 114849), (356, 114867), (359, 114882), (373, 114999), (379, 115038), (395, 115158), (403, 115200), (413, 115245), (415, 115254), (428, 115305), (441, 115347), (461, 115413), (464, 115422), (465, 115425), (467, 115431), (468, 115434), (469, 115443), (471, 115449), (474, 115464), (499, 115551), (530, 115656), (541, 115710), (556, 115797), (562, 115827), (572, 115857), (579, 115890), (581, 115899), (592, 115971), (596, 116001), (622, 116118), (632, 116163), (643, 116205), (680, 116349), (702, 116409), (738, 116511), (770, 116598), (772, 116601), (779, 116619), (791, 116655), (792, 116658), (813, 116718), (818, 116736), (851, 116832), (858, 116862), (864, 116880), (876, 116910), (911, 117003), (914, 117018), (939, 117099), (940, 117105), (944, 117117),

Gene: Demodog_215 Start: 115539, Stop: 118934, Start Num: 66

Candidate Starts for Demodog_215:

(Start: 23 @115446 has 44 MA's), (Start: 25 @115452 has 6 MA's), (Start: 32 @115464 has 9 MA's), (38, 115473), (Start: 66 @115539 has 166 MA's), (83, 115614), (104, 115728), (112, 115752), (133,

115812), (162, 115923), (170, 115962), (177, 115986), (185, 116028), (211, 116127), (221, 116169), (222, 116175), (227, 116187), (237, 116250), (251, 116310), (252, 116313), (259, 116340), (272, 116382), (Start: 292 @116445 has 9 MA's), (351, 116601), (356, 116619), (359, 116634), (373, 116751), (379, 116790), (395, 116910), (403, 116952), (413, 116997), (415, 117006), (428, 117057), (441, 117099), (461, 117165), (464, 117174), (465, 117177), (467, 117183), (468, 117186), (469, 117195), (471, 117201), (474, 117216), (499, 117303), (530, 117408), (541, 117462), (556, 117549), (562, 117579), (572, 117609), (579, 117642), (581, 117651), (592, 117723), (596, 117753), (622, 117870), (632, 117915), (643, 117957), (680, 118101), (702, 118161), (738, 118263), (770, 118350), (772, 118353), (779, 118371), (791, 118407), (792, 118410), (813, 118470), (818, 118488), (851, 118584), (858, 118614), (864, 118632), (876, 118662), (911, 118755), (914, 118770), (939, 118851), (940, 118857), (944, 118869),

Gene: Derek_206 Start: 112850, Stop: 116338, Start Num: 23

Candidate Starts for Derek_206:

(Start: 23 @112850 has 44 MA's), (Start: 25 @112856 has 6 MA's), (Start: 32 @112868 has 9 MA's), (38, 112877), (Start: 66 @112943 has 166 MA's), (83, 113018), (104, 113132), (112, 113156), (133, 113216), (162, 113327), (170, 113366), (177, 113390), (185, 113432), (211, 113531), (221, 113573), (222, 113579), (227, 113591), (237, 113654), (251, 113714), (252, 113717), (259, 113744), (272, 113786), (Start: 292 @113849 has 9 MA's), (351, 114005), (356, 114023), (359, 114038), (373, 114155), (379, 114194), (395, 114314), (403, 114356), (413, 114401), (415, 114410), (428, 114461), (441, 114503), (461, 114569), (464, 114578), (465, 114581), (467, 114587), (468, 114590), (469, 114599), (471, 114605), (474, 114620), (499, 114707), (530, 114812), (541, 114866), (556, 114953), (562, 114983), (572, 115013), (579, 115046), (581, 115055), (592, 115127), (596, 115157), (622, 115274), (632, 115319), (643, 115361), (680, 115505), (702, 115565), (738, 115667), (770, 115754), (772, 115757), (779, 115775), (791, 115811), (792, 115814), (813, 115874), (818, 115892), (851, 115988), (858, 116018), (864, 116036), (876, 116066), (911, 116159), (914, 116174), (939, 116255), (940, 116261), (944, 116273),

Gene: Dietrick_198 Start: 111544, Stop: 115014, Start Num: 32

Candidate Starts for Dietrick_198:

(Start: 23 @111526 has 44 MA's), (Start: 25 @111532 has 6 MA's), (Start: 32 @111544 has 9 MA's), (38, 111553), (Start: 66 @111619 has 166 MA's), (83, 111694), (104, 111808), (112, 111832), (133, 111892), (162, 112003), (170, 112042), (177, 112066), (185, 112108), (211, 112207), (221, 112249), (222, 112255), (227, 112267), (237, 112330), (251, 112390), (252, 112393), (259, 112420), (272, 112462), (Start: 292 @112525 has 9 MA's), (344, 112645), (351, 112681), (356, 112699), (359, 112714), (373, 112831), (379, 112870), (395, 112990), (403, 113032), (413, 113077), (415, 113086), (428, 113137), (441, 113179), (461, 113245), (464, 113254), (465, 113257), (467, 113263), (468, 113266), (469, 113275), (471, 113281), (474, 113296), (499, 113383), (530, 113488), (541, 113542), (556, 113629), (562, 113659), (572, 113689), (579, 113722), (581, 113731), (592, 113803), (596, 113833), (622, 113950), (632, 113995), (643, 114037), (680, 114181), (702, 114241), (738, 114343), (770, 114430), (772, 114433), (779, 114451), (791, 114487), (792, 114490), (813, 114550), (818, 114568), (851, 114664), (858, 114694), (864, 114712), (876, 114742), (911, 114835), (914, 114850), (939, 114931), (940, 114937), (944, 114949),

Gene: DirtMonster_202 Start: 112859, Stop: 116254, Start Num: 66

Candidate Starts for DirtMonster_202:

(Start: 23 @112766 has 44 MA's), (Start: 25 @112772 has 6 MA's), (Start: 32 @112784 has 9 MA's), (38, 112793), (Start: 66 @112859 has 166 MA's), (83, 112934), (104, 113048), (112, 113072), (133, 113132), (162, 113243), (170, 113282), (177, 113306), (185, 113348), (211, 113447), (221, 113489), (222, 113495), (227, 113507), (237, 113570), (251, 113630), (252, 113633), (259, 113660), (272, 113702), (Start: 292 @113765 has 9 MA's), (351, 113921), (356, 113939), (359, 113954), (373, 114071), (379, 114110), (395, 114230), (403, 114272), (413, 114317), (415, 114326), (428, 114377), (441, 114419), (461, 114485), (464, 114494), (465, 114497), (467, 114503), (468, 114506), (469,

114515), (471, 114521), (474, 114536), (499, 114623), (530, 114728), (541, 114782), (556, 114869), (562, 114899), (572, 114929), (579, 114962), (581, 114971), (592, 115043), (596, 115073), (622, 115190), (632, 115235), (643, 115277), (680, 115421), (702, 115481), (738, 115583), (770, 115670), (772, 115673), (779, 115691), (791, 115727), (792, 115730), (813, 115790), (818, 115808), (851, 115904), (858, 115934), (864, 115952), (876, 115982), (911, 116075), (914, 116090), (939, 116171), (940, 116177), (944, 116189),

Gene: Djokovic_66 Start: 47715, Stop: 50150, Start Num: 307

Candidate Starts for Djokovic_66:

(Start: 307 @47715 has 8 MA's), (312, 47733), (357, 47913), (376, 48027), (378, 48042), (435, 48333), (471, 48420), (501, 48549), (508, 48588), (512, 48594), (526, 48615), (530, 48624), (582, 48822), (584, 48837), (585, 48843), (592, 48885), (606, 48948), (612, 48972), (625, 49029), (632, 49053), (643, 49092), (663, 49158), (666, 49170), (671, 49188), (691, 49281), (695, 49296), (707, 49332), (743, 49434), (831, 49626), (832, 49629), (853, 49704), (855, 49710), (873, 49767), (881, 49794), (884, 49806), (906, 49890), (916, 49920), (935, 49989), (943, 50013), (948, 50028), (964, 50079), (967, 50091), (969, 50094), (975, 50109), (982, 50145),

Gene: Domi_203 Start: 112970, Stop: 116365, Start Num: 66

Candidate Starts for Domi_203:

(Start: 23 @112877 has 44 MA's), (Start: 25 @112883 has 6 MA's), (Start: 32 @112895 has 9 MA's), (38, 112904), (Start: 66 @112970 has 166 MA's), (83, 113045), (104, 113159), (112, 113183), (133, 113243), (162, 113354), (170, 113393), (177, 113417), (185, 113459), (211, 113558), (221, 113600), (222, 113606), (227, 113618), (237, 113681), (251, 113741), (252, 113744), (259, 113771), (272, 113813), (Start: 292 @113876 has 9 MA's), (351, 114032), (356, 114050), (359, 114065), (373, 114182), (379, 114221), (395, 114341), (403, 114383), (413, 114428), (415, 114437), (428, 114488), (441, 114530), (461, 114596), (464, 114605), (465, 114608), (467, 114614), (468, 114617), (469, 114626), (471, 114632), (474, 114647), (499, 114734), (530, 114839), (541, 114893), (556, 114980), (562, 115010), (572, 115040), (579, 115073), (581, 115082), (592, 115154), (596, 115184), (622, 115301), (632, 115346), (643, 115388), (680, 115532), (702, 115592), (738, 115694), (770, 115781), (772, 115784), (779, 115802), (791, 115838), (792, 115841), (813, 115901), (818, 115919), (851, 116015), (858, 116045), (864, 116063), (876, 116093), (911, 116186), (914, 116201), (939, 116282), (940, 116288), (944, 116300),

Gene: DoobyDoo_78 Start: 50921, Stop: 54166, Start Num: 89

Candidate Starts for DoobyDoo_78:

(Start: 81 @50885 has 1 MA's), (Start: 89 @50921 has 8 MA's), (94, 50966), (104, 51008), (173, 51269), (204, 51371), (213, 51404), (233, 51500), (304, 51770), (Start: 307 @51779 has 8 MA's), (338, 51887), (346, 51932), (356, 51974), (378, 52106), (379, 52109), (380, 52139), (383, 52160), (395, 52229), (405, 52283), (430, 52382), (435, 52397), (455, 52439), (502, 52613), (508, 52646), (521, 52664), (530, 52682), (543, 52727), (544, 52730), (571, 52826), (580, 52868), (582, 52880), (587, 52916), (629, 53096), (640, 53138), (648, 53174), (666, 53228), (671, 53246), (692, 53342), (695, 53354), (795, 53549), (829, 53633), (853, 53714), (862, 53738), (867, 53753), (879, 53789), (882, 53801), (884, 53807), (885, 53810), (893, 53837), (903, 53882), (935, 53990), (950, 54035), (958, 54059), (969, 54095),

Gene: Dorin_77 Start: 60424, Stop: 64227, Start Num: 64

Candidate Starts for Dorin_77:

(Start: 64 @60424 has 2 MA's), (Start: 71 @60433 has 2 MA's), (88, 60523), (97, 60583), (106, 60625), (165, 60844), (170, 60859), (243, 61144), (251, 61171), (262, 61207), (295, 61315), (320, 61372), (331, 61417), (334, 61426), (353, 61513), (357, 61528), (359, 61540), (369, 61576), (373, 61618), (378, 61654), (407, 61840), (409, 61843), (430, 61930), (456, 61987), (482, 62086), (491, 62113), (514, 62209), (521, 62227), (536, 62269), (548, 62299), (565, 62371), (572, 62395), (601, 62539), (603, 62557), (610, 62584), (626, 62650), (632, 62671), (642, 62698), (646, 62716), (675, 62827),

(677, 62833), (694, 62890), (717, 62968), (726, 63001), (750, 63103), (799, 63238), (810, 63274), (837, 63352), (847, 63382), (861, 63436), (864, 63445), (868, 63460), (898, 63562), (936, 63691), (940, 63706), (945, 63721), (947, 63727), (957, 63760), (973, 63814), (984, 63889), (988, 63916), (989, 63922), (990, 63928), (993, 63967), (994, 63979), (995, 64000), (999, 64069), (1000, 64102), (1001, 64126), (1007, 64195),

Gene: DrLupo_85 Start: 55971, Stop: 59333, Start Num: 52

Candidate Starts for DrLupo_85:

(Start: 52 @55971 has 1 MA's), (Start: 72 @55998 has 72 MA's), (80, 56055), (Start: 89 @56094 has 8 MA's), (127, 56262), (136, 56298), (139, 56313), (160, 56379), (168, 56418), (169, 56421), (187, 56472), (198, 56505), (204, 56538), (214, 56574), (222, 56613), (234, 56676), (235, 56679), (252, 56760), (261, 56790), (299, 56913), (338, 56985), (344, 57018), (370, 57150), (378, 57210), (379, 57213), (395, 57333), (397, 57342), (420, 57447), (452, 57555), (454, 57561), (496, 57717), (501, 57750), (502, 57756), (504, 57765), (508, 57789), (511, 57804), (513, 57807), (520, 57825), (523, 57831), (538, 57882), (545, 57921), (546, 57951), (555, 57987), (560, 58017), (572, 58053), (594, 58179), (603, 58221), (608, 58239), (614, 58263), (621, 58296), (671, 58470), (716, 58650), (720, 58656), (723, 58677), (742, 58737), (796, 58794), (836, 58887), (884, 59031), (901, 59100), (912, 59130), (951, 59259), (970, 59319),

Gene: DrPhinkDaddy_206 Start: 114158, Stop: 117553, Start Num: 66

Candidate Starts for DrPhinkDaddy_206:

(Start: 23 @114065 has 44 MA's), (Start: 25 @114071 has 6 MA's), (Start: 32 @114083 has 9 MA's), (38, 114092), (Start: 66 @114158 has 166 MA's), (83, 114233), (104, 114347), (112, 114371), (133, 114431), (162, 114542), (170, 114581), (177, 114605), (185, 114647), (211, 114746), (221, 114788), (222, 114794), (227, 114806), (237, 114869), (251, 114929), (252, 114932), (259, 114959), (272, 115001), (Start: 292 @115064 has 9 MA's), (344, 115184), (351, 115220), (356, 115238), (359, 115253), (373, 115370), (379, 115409), (395, 115529), (403, 115571), (413, 115616), (415, 115625), (428, 115676), (441, 115718), (461, 115784), (464, 115793), (465, 115796), (467, 115802), (468, 115805), (469, 115814), (471, 115820), (474, 115835), (499, 115922), (530, 116027), (541, 116081), (556, 116168), (562, 116198), (572, 116228), (579, 116261), (581, 116270), (592, 116342), (596, 116372), (622, 116489), (632, 116534), (643, 116576), (680, 116720), (702, 116780), (738, 116882), (770, 116969), (772, 116972), (779, 116990), (791, 117026), (792, 117029), (813, 117089), (818, 117107), (851, 117203), (858, 117233), (864, 117251), (876, 117281), (911, 117374), (914, 117389), (939, 117470), (940, 117476), (944, 117488),

Gene: Drazdys_207 Start: 112967, Stop: 116455, Start Num: 23

Candidate Starts for Drazdys_207:

(Start: 23 @112967 has 44 MA's), (Start: 25 @112973 has 6 MA's), (Start: 32 @112985 has 9 MA's), (38, 112994), (Start: 66 @113060 has 166 MA's), (83, 113135), (104, 113249), (112, 113273), (133, 113333), (162, 113444), (170, 113483), (177, 113507), (185, 113549), (211, 113648), (221, 113690), (222, 113696), (227, 113708), (237, 113771), (251, 113831), (252, 113834), (259, 113861), (272, 113903), (Start: 292 @113966 has 9 MA's), (351, 114122), (356, 114140), (359, 114155), (373, 114272), (379, 114311), (395, 114431), (403, 114473), (413, 114518), (415, 114527), (428, 114578), (441, 114620), (461, 114686), (464, 114695), (465, 114698), (467, 114704), (468, 114707), (469, 114716), (471, 114722), (474, 114737), (499, 114824), (530, 114929), (541, 114983), (556, 115070), (562, 115100), (572, 115130), (579, 115163), (581, 115172), (592, 115244), (596, 115274), (622, 115391), (632, 115436), (643, 115478), (680, 115622), (702, 115682), (738, 115784), (770, 115871), (772, 115874), (779, 115892), (791, 115928), (792, 115931), (813, 115991), (818, 116009), (851, 116105), (858, 116135), (864, 116153), (876, 116183), (911, 116276), (914, 116291), (939, 116372), (940, 116378), (944, 116390),

Gene: Dryad_56 Start: 40017, Stop: 36817, Start Num: 72

Candidate Starts for Dryad_56:

(58, 40038), (Start: 72 @40017 has 72 MA's), (73, 40008), (78, 39975), (Start: 89 @39921 has 8 MA's), (97, 39867), (104, 39834), (114, 39798), (117, 39789), (120, 39780), (128, 39750), (137, 39717), (142, 39693), (154, 39639), (157, 39627), (170, 39573), (197, 39504), (214, 39423), (241, 39288), (254, 39225), (255, 39222), (Start: 287 @39117 has 29 MA's), (310, 39066), (316, 39051), (321, 39036), (349, 38940), (356, 38910), (368, 38865), (371, 38829), (376, 38793), (378, 38778), (379, 38775), (391, 38682), (407, 38592), (411, 38577), (442, 38466), (474, 38385), (476, 38379), (481, 38352), (496, 38301), (508, 38229), (512, 38223), (530, 38193), (538, 38163), (553, 38118), (559, 38082), (588, 37953), (613, 37842), (617, 37818), (661, 37674), (663, 37662), (666, 37650), (688, 37539), (791, 37359), (825, 37299), (829, 37287), (839, 37254), (857, 37188), (882, 37122), (916, 37011), (919, 36999), (927, 36978), (930, 36954), (951, 36894), (962, 36858), (966, 36843),

Gene: DumpTruck_80 Start: 51478, Stop: 54825, Start Num: 69

Candidate Starts for DumpTruck_80:

(Start: 69 @51478 has 20 MA's), (86, 51559), (Start: 89 @51574 has 8 MA's), (90, 51583), (91, 51589), (108, 51682), (164, 51892), (173, 51922), (190, 51970), (213, 52057), (233, 52153), (283, 52354), (304, 52423), (Start: 307 @52432 has 8 MA's), (338, 52543), (346, 52588), (356, 52630), (378, 52762), (379, 52765), (380, 52795), (407, 52948), (430, 53038), (435, 53053), (442, 53074), (502, 53269), (508, 53302), (521, 53320), (538, 53368), (543, 53383), (544, 53386), (571, 53482), (582, 53536), (587, 53572), (612, 53686), (629, 53752), (640, 53794), (648, 53830), (666, 53884), (671, 53902), (692, 53998), (695, 54010), (699, 54022), (734, 54106), (832, 54301), (862, 54397), (867, 54412), (882, 54460), (884, 54466), (885, 54469), (893, 54496), (903, 54541), (948, 54688), (950, 54694), (958, 54718), (969, 54754),

Gene: Dwayne_54 Start: 42482, Stop: 38997, Start Num: 66

Candidate Starts for Dwayne_54:

(Start: 32 @42551 has 9 MA's), (Start: 66 @42482 has 166 MA's), (Start: 81 @42419 has 1 MA's), (83, 42410), (91, 42368), (108, 42275), (126, 42206), (143, 42137), (156, 42083), (174, 42011), (182, 41975), (198, 41915), (255, 41690), (270, 41651), (277, 41624), (282, 41606), (Start: 290 @41585 has 6 MA's), (295, 41570), (321, 41528), (347, 41450), (350, 41438), (380, 41252), (381, 41246), (388, 41201), (404, 41117), (407, 41099), (422, 41042), (423, 41039), (426, 41027), (469, 40889), (471, 40883), (474, 40868), (476, 40862), (482, 40829), (504, 40751), (514, 40718), (558, 40577), (580, 40496), (581, 40490), (592, 40421), (602, 40358), (608, 40337), (618, 40292), (645, 40196), (647, 40187), (649, 40181), (675, 40079), (678, 40070), (681, 40058), (684, 40037), (697, 40007), (706, 39980), (731, 39914), (733, 39905), (737, 39893), (765, 39806), (816, 39638), (833, 39590), (866, 39479), (905, 39341), (908, 39332), (914, 39305), (928, 39257), (936, 39224), (944, 39197), (976, 39092), (978, 39080),

Gene: E3_gp154 Start: 103974, Stop: 107150, Start Num: 66

Candidate Starts for E3_gp154:

(Start: 66 @103974 has 166 MA's), (73, 103989), (95, 104124), (102, 104154), (106, 104172), (115, 104196), (149, 104310), (155, 104334), (173, 104406), (175, 104412), (184, 104454), (193, 104493), (211, 104559), (214, 104568), (217, 104583), (235, 104673), (237, 104682), (252, 104751), (259, 104778), (277, 104835), (316, 104919), (344, 105000), (345, 105006), (365, 105090), (373, 105144), (379, 105183), (415, 105399), (423, 105429), (441, 105477), (451, 105513), (464, 105552), (465, 105555), (467, 105561), (474, 105594), (482, 105633), (499, 105672), (588, 106023), (590, 106041), (592, 106044), (666, 106344), (672, 106368), (692, 106440), (703, 106473), (717, 106515), (772, 106662), (793, 106716), (864, 106857), (889, 106920), (911, 106977),

Gene: EGole_81 Start: 60108, Stop: 63392, Start Num: 68

Candidate Starts for EGole_81:

(Start: 68 @60108 has 63 MA's), (78, 60153), (84, 60183), (88, 60201), (Start: 89 @60207 has 8 MA's), (157, 60486), (182, 60588), (214, 60666), (235, 60771), (249, 60834), (250, 60840), (262, 60879), (298, 60996), (330, 61080), (358, 61206), (367, 61236), (371, 61275), (471, 61662), (497, 61767),

(498, 61773), (499, 61779), (502, 61803), (521, 61863), (534, 61893), (535, 61896), (548, 61935), (554, 61962), (560, 61995), (564, 62007), (580, 62070), (592, 62142), (603, 62196), (606, 62205), (608, 62214), (610, 62223), (612, 62229), (675, 62472), (698, 62541), (702, 62553), (708, 62574), (735, 62658), (795, 62853), (807, 62886), (822, 62937), (835, 62982), (855, 63048), (870, 63096), (881, 63132), (895, 63177), (896, 63186), (911, 63228), (922, 63273), (923, 63276), (928, 63291),

Gene: ET08_197 Start: 112528, Stop: 116046, Start Num: 18

Candidate Starts for ET08_197:

(Start: 18 @112528 has 5 MA's), (Start: 23 @112558 has 44 MA's), (Start: 25 @112564 has 6 MA's), (Start: 32 @112576 has 9 MA's), (38, 112585), (Start: 66 @112651 has 166 MA's), (83, 112726), (104, 112840), (112, 112864), (133, 112924), (162, 113035), (170, 113074), (177, 113098), (185, 113140), (211, 113239), (221, 113281), (222, 113287), (227, 113299), (237, 113362), (251, 113422), (252, 113425), (259, 113452), (272, 113494), (Start: 292 @113557 has 9 MA's), (344, 113677), (351, 113713), (356, 113731), (359, 113746), (373, 113863), (379, 113902), (395, 114022), (403, 114064), (413, 114109), (415, 114118), (428, 114169), (441, 114211), (461, 114277), (464, 114286), (465, 114289), (467, 114295), (468, 114298), (469, 114307), (471, 114313), (474, 114328), (499, 114415), (530, 114520), (541, 114574), (556, 114661), (562, 114691), (572, 114721), (579, 114754), (581, 114763), (592, 114835), (596, 114865), (622, 114982), (632, 115027), (643, 115069), (680, 115213), (702, 115273), (738, 115375), (770, 115462), (772, 115465), (779, 115483), (791, 115519), (792, 115522), (813, 115582), (818, 115600), (851, 115696), (858, 115726), (864, 115744), (876, 115774), (911, 115867), (914, 115882), (939, 115963), (940, 115969), (944, 115981),

Gene: EasyJones_212 Start: 113039, Stop: 116527, Start Num: 23

Candidate Starts for EasyJones_212:

(Start: 23 @113039 has 44 MA's), (Start: 25 @113045 has 6 MA's), (Start: 32 @113057 has 9 MA's), (38, 113066), (Start: 66 @113132 has 166 MA's), (83, 113207), (104, 113321), (112, 113345), (133, 113405), (162, 113516), (170, 113555), (177, 113579), (185, 113621), (211, 113720), (221, 113762), (222, 113768), (227, 113780), (237, 113843), (251, 113903), (252, 113906), (259, 113933), (272, 113975), (Start: 292 @114038 has 9 MA's), (351, 114194), (356, 114212), (359, 114227), (373, 114344), (379, 114383), (395, 114503), (403, 114545), (413, 114590), (415, 114599), (428, 114650), (441, 114692), (461, 114758), (464, 114767), (465, 114770), (467, 114776), (468, 114779), (469, 114788), (471, 114794), (474, 114809), (499, 114896), (530, 115001), (541, 115055), (556, 115142), (562, 115172), (572, 115202), (579, 115235), (581, 115244), (592, 115316), (596, 115346), (622, 115463), (632, 115508), (643, 115550), (680, 115694), (702, 115754), (738, 115856), (770, 115943), (772, 115946), (779, 115964), (791, 116000), (792, 116003), (813, 116063), (818, 116081), (851, 116177), (858, 116207), (864, 116225), (876, 116255), (911, 116348), (914, 116363), (939, 116444), (940, 116450), (944, 116462),

Gene: Eddasa_55 Start: 40726, Stop: 37247, Start Num: 66

Candidate Starts for Eddasa_55:

(Start: 66 @40726 has 166 MA's), (73, 40714), (83, 40654), (84, 40651), (Start: 89 @40627 has 8 MA's), (126, 40450), (132, 40423), (134, 40417), (156, 40327), (161, 40312), (173, 40258), (174, 40255), (198, 40159), (226, 40081), (255, 39934), (270, 39895), (282, 39850), (Start: 290 @39829 has 6 MA's), (295, 39814), (321, 39772), (326, 39760), (347, 39694), (350, 39682), (365, 39619), (381, 39490), (382, 39481), (388, 39445), (404, 39361), (407, 39343), (422, 39286), (423, 39283), (426, 39271), (469, 39133), (471, 39127), (474, 39112), (476, 39106), (485, 39067), (504, 38995), (514, 38962), (554, 38845), (558, 38821), (576, 38764), (580, 38740), (581, 38734), (592, 38665), (602, 38602), (618, 38536), (623, 38515), (630, 38497), (645, 38440), (647, 38431), (675, 38323), (678, 38314), (681, 38302), (684, 38281), (697, 38251), (706, 38224), (731, 38158), (733, 38149), (737, 38137), (765, 38050), (776, 38026), (792, 37978), (833, 37834), (855, 37759), (905, 37585), (914, 37549), (928, 37501), (936, 37468),

Gene: EggyFarm_218 Start: 115912, Stop: 119382, Start Num: 32

Candidate Starts for EggyFarm_218:

(10, 115819), (Start: 23 @115894 has 44 MA's), (Start: 25 @115900 has 6 MA's), (Start: 32 @115912 has 9 MA's), (38, 115921), (Start: 66 @115987 has 166 MA's), (83, 116062), (104, 116176), (112, 116200), (133, 116260), (162, 116371), (170, 116410), (177, 116434), (185, 116476), (211, 116575), (221, 116617), (222, 116623), (227, 116635), (237, 116698), (251, 116758), (252, 116761), (259, 116788), (272, 116830), (Start: 292 @116893 has 9 MA's), (351, 117049), (356, 117067), (359, 117082), (373, 117199), (379, 117238), (395, 117358), (403, 117400), (413, 117445), (415, 117454), (428, 117505), (441, 117547), (461, 117613), (464, 117622), (465, 117625), (467, 117631), (468, 117634), (469, 117643), (471, 117649), (474, 117664), (499, 117751), (530, 117856), (541, 117910), (556, 117997), (562, 118027), (572, 118057), (579, 118090), (581, 118099), (592, 118171), (596, 118201), (622, 118318), (632, 118363), (643, 118405), (680, 118549), (702, 118609), (738, 118711), (770, 118798), (772, 118801), (779, 118819), (791, 118855), (792, 118858), (813, 118918), (818, 118936), (851, 119032), (858, 119062), (864, 119080), (876, 119110), (911, 119203), (914, 119218), (939, 119299), (940, 119305), (944, 119317),

Gene: Ejemplo_52 Start: 42420, Stop: 38935, Start Num: 66

Candidate Starts for Ejemplo_52:

(Start: 32 @42489 has 9 MA's), (Start: 66 @42420 has 166 MA's), (Start: 81 @42357 has 1 MA's), (83, 42348), (91, 42306), (108, 42213), (126, 42144), (143, 42075), (156, 42021), (174, 41949), (182, 41913), (198, 41853), (255, 41628), (270, 41589), (277, 41562), (282, 41544), (Start: 290 @41523 has 6 MA's), (295, 41508), (321, 41466), (347, 41388), (350, 41376), (380, 41190), (381, 41184), (388, 41139), (404, 41055), (407, 41037), (422, 40980), (423, 40977), (426, 40965), (469, 40827), (471, 40821), (474, 40806), (476, 40800), (482, 40767), (504, 40689), (514, 40656), (558, 40515), (580, 40434), (581, 40428), (592, 40359), (602, 40296), (608, 40275), (618, 40230), (645, 40134), (647, 40125), (649, 40119), (675, 40017), (678, 40008), (681, 39996), (684, 39975), (697, 39945), (706, 39918), (731, 39852), (733, 39843), (737, 39831), (765, 39744), (816, 39576), (833, 39528), (866, 39417), (905, 39279), (908, 39270), (914, 39243), (928, 39195), (936, 39162), (944, 39135), (976, 39030), (978, 39018),

Gene: Elmer_84 Start: 59515, Stop: 62835, Start Num: 67

Candidate Starts for Elmer_84:

(47, 59485), (Start: 67 @59515 has 30 MA's), (79, 59566), (84, 59587), (Start: 89 @59611 has 8 MA's), (103, 59692), (157, 59890), (214, 60070), (226, 60118), (235, 60175), (245, 60226), (249, 60244), (251, 60253), (262, 60289), (298, 60406), (328, 60478), (358, 60616), (371, 60685), (395, 60850), (411, 60928), (469, 61090), (476, 61117), (499, 61213), (502, 61237), (521, 61297), (548, 61369), (592, 61573), (603, 61627), (606, 61636), (610, 61654), (612, 61660), (664, 61843), (666, 61852), (672, 61876), (675, 61903), (760, 62200), (790, 62278), (806, 62320), (822, 62380), (834, 62419), (835, 62425), (845, 62452), (855, 62491), (870, 62539), (873, 62548), (895, 62620), (907, 62668), (911, 62671), (922, 62716), (923, 62719), (938, 62773), (942, 62788),

Gene: EmToTheThree_209 Start: 113531, Stop: 116926, Start Num: 66

Candidate Starts for EmToTheThree_209:

(Start: 23 @113438 has 44 MA's), (Start: 25 @113444 has 6 MA's), (Start: 32 @113456 has 9 MA's), (38, 113465), (Start: 66 @113531 has 166 MA's), (83, 113606), (104, 113720), (112, 113744), (133, 113804), (162, 113915), (170, 113954), (177, 113978), (185, 114020), (211, 114119), (221, 114161), (222, 114167), (227, 114179), (237, 114242), (251, 114302), (252, 114305), (259, 114332), (272, 114374), (Start: 292 @114437 has 9 MA's), (344, 114557), (351, 114593), (356, 114611), (359, 114626), (373, 114743), (379, 114782), (395, 114902), (403, 114944), (413, 114989), (415, 114998), (428, 115049), (441, 115091), (461, 115157), (464, 115166), (465, 115169), (467, 115175), (468, 115178), (469, 115187), (471, 115193), (474, 115208), (499, 115295), (530, 115400), (541, 115454), (556, 115541), (562, 115571), (572, 115601), (579, 115634), (581, 115643), (592, 115715), (596, 115745), (622, 115862), (632, 115907), (643, 115949), (680, 116093), (702, 116153), (738, 116255), (770, 116342), (772, 116345), (779, 116363), (791, 116399), (792, 116402), (813, 116462), (818,

116480), (851, 116576), (858, 116606), (864, 116624), (876, 116654), (911, 116747), (914, 116762), (939, 116843), (940, 116849), (944, 116861),

Gene: Emaanora_57 Start: 42405, Stop: 38920, Start Num: 66

Candidate Starts for Emaanora_57:

(Start: 32 @42474 has 9 MA's), (Start: 66 @42405 has 166 MA's), (Start: 81 @42342 has 1 MA's), (83, 42333), (91, 42291), (108, 42198), (126, 42129), (143, 42060), (156, 42006), (174, 41934), (182, 41898), (198, 41838), (255, 41613), (270, 41574), (277, 41547), (282, 41529), (Start: 290 @41508 has 6 MA's), (295, 41493), (321, 41451), (347, 41373), (350, 41361), (380, 41175), (381, 41169), (388, 41124), (404, 41040), (407, 41022), (422, 40965), (423, 40962), (426, 40950), (469, 40812), (471, 40806), (474, 40791), (476, 40785), (482, 40752), (504, 40674), (514, 40641), (558, 40500), (580, 40419), (581, 40413), (592, 40344), (602, 40281), (608, 40260), (618, 40215), (645, 40119), (647, 40110), (649, 40104), (675, 40002), (678, 39993), (681, 39981), (684, 39960), (697, 39930), (706, 39903), (731, 39837), (733, 39828), (737, 39816), (765, 39729), (816, 39561), (833, 39513), (866, 39402), (869, 39396), (905, 39264), (908, 39255), (914, 39228), (936, 39147), (976, 39015), (978, 39003),

Gene: Emianna_60 Start: 49104, Stop: 45793, Start Num: 72

Candidate Starts for Emianna_60:

(3, 49347), (Start: 72 @49104 has 72 MA's), (84, 49032), (Start: 89 @49008 has 8 MA's), (124, 48855), (127, 48846), (160, 48723), (204, 48564), (206, 48558), (212, 48534), (234, 48426), (240, 48396), (256, 48327), (311, 48189), (317, 48171), (356, 48018), (365, 47976), (376, 47898), (378, 47883), (399, 47745), (460, 47547), (474, 47493), (475, 47490), (491, 47430), (502, 47379), (530, 47310), (543, 47265), (593, 47025), (602, 46983), (603, 46980), (605, 46974), (610, 46956), (634, 46860), (648, 46806), (688, 46662), (692, 46653), (722, 46578), (744, 46503), (759, 46449), (779, 46407), (795, 46359), (824, 46278), (831, 46257), (857, 46167), (871, 46137), (878, 46113), (879, 46110), (930, 45927), (951, 45870),

Gene: Emma1919_62 Start: 48644, Stop: 51934, Start Num: 68

Candidate Starts for Emma1919_62:

(Start: 68 @48644 has 63 MA's), (74, 48659), (75, 48665), (84, 48716), (Start: 89 @48740 has 8 MA's), (135, 48929), (157, 49019), (172, 49079), (214, 49199), (235, 49304), (249, 49367), (250, 49373), (262, 49412), (346, 49685), (358, 49739), (367, 49769), (371, 49808), (378, 49856), (460, 50156), (471, 50195), (497, 50300), (498, 50306), (499, 50312), (504, 50345), (507, 50360), (514, 50378), (519, 50390), (521, 50396), (535, 50429), (543, 50459), (548, 50468), (562, 50534), (564, 50540), (567, 50549), (580, 50603), (592, 50675), (603, 50729), (606, 50738), (610, 50756), (612, 50762), (643, 50876), (663, 50942), (666, 50954), (678, 51014), (679, 51017), (700, 51080), (702, 51086), (704, 51092), (737, 51197), (748, 51248), (774, 51317), (795, 51386), (799, 51395), (820, 51464), (822, 51470), (826, 51482), (835, 51515), (836, 51518), (855, 51581), (857, 51590), (864, 51611), (867, 51623), (881, 51665), (911, 51761), (919, 51797), (922, 51806), (928, 51824), (955, 51920),

Gene: EmmaElysia_212 Start: 113550, Stop: 116945, Start Num: 66

Candidate Starts for EmmaElysia_212:

(Start: 23 @113457 has 44 MA's), (Start: 25 @113463 has 6 MA's), (Start: 32 @113475 has 9 MA's), (38, 113484), (Start: 66 @113550 has 166 MA's), (83, 113625), (104, 113739), (112, 113763), (133, 113823), (162, 113934), (170, 113973), (177, 113997), (185, 114039), (211, 114138), (221, 114180), (222, 114186), (227, 114198), (237, 114261), (251, 114321), (252, 114324), (259, 114351), (272, 114393), (Start: 292 @114456 has 9 MA's), (344, 114576), (351, 114612), (356, 114630), (359, 114645), (373, 114762), (379, 114801), (395, 114921), (403, 114963), (413, 115008), (415, 115017), (428, 115068), (441, 115110), (461, 115176), (464, 115185), (465, 115188), (467, 115194), (468, 115197), (469, 115206), (471, 115212), (474, 115227), (499, 115314), (530, 115419), (541, 115473), (556, 115560), (562, 115590), (572, 115620), (579, 115653), (581, 115662), (592, 115734), (596, 115764), (622, 115881), (632, 115926), (643, 115968), (680, 116112), (702, 116172), (738, 116274),

(770, 116361), (772, 116364), (779, 116382), (791, 116418), (792, 116421), (813, 116481), (818, 116499), (851, 116595), (858, 116625), (864, 116643), (876, 116673), (911, 116766), (914, 116781), (939, 116862), (940, 116868), (944, 116880),

Gene: EmoNemo_92 Start: 70036, Stop: 72849, Start Num: 54

Candidate Starts for EmoNemo_92:

(Start: 46 @70021 has 1 MA's), (Start: 51 @70033 has 2 MA's), (Start: 54 @70036 has 8 MA's), (83, 70129), (92, 70189), (131, 70339), (132, 70342), (134, 70348), (158, 70447), (163, 70477), (164, 70480), (180, 70543), (185, 70564), (186, 70567), (193, 70594), (222, 70711), (226, 70720), (235, 70777), (237, 70786), (253, 70852), (273, 70918), (347, 71083), (351, 71101), (355, 71116), (357, 71122), (359, 71134), (367, 71161), (368, 71164), (375, 71224), (376, 71233), (377, 71236), (379, 71248), (382, 71293), (394, 71362), (397, 71386), (432, 71542), (438, 71560), (443, 71584), (448, 71602), (475, 71698), (483, 71740), (487, 71746), (499, 71782), (500, 71791), (503, 71809), (504, 71815), (508, 71839), (512, 71845), (514, 71848), (521, 71866), (522, 71869), (554, 71962), (564, 72007), (566, 72013), (574, 72037), (575, 72040), (577, 72049), (578, 72055), (580, 72067), (600, 72184), (602, 72202), (603, 72205), (606, 72214), (635, 72328), (639, 72343), (675, 72490), (679, 72502), (681, 72508), (692, 72541), (703, 72574), (708, 72592), (712, 72604), (714, 72613), (750, 72727), (754, 72739), (762, 72754), (787, 72829), (791, 72838),

Gene: Ennea_66 Start: 49878, Stop: 46564, Start Num: 72

Candidate Starts for Ennea_66:

(1, 50130), (9, 50043), (15, 50016), (Start: 72 @49878 has 72 MA's), (Start: 89 @49782 has 8 MA's), (124, 49629), (127, 49620), (160, 49497), (204, 49338), (206, 49332), (212, 49308), (226, 49254), (234, 49200), (240, 49170), (249, 49131), (261, 49089), (284, 49008), (311, 48963), (356, 48792), (365, 48750), (376, 48672), (378, 48657), (399, 48519), (460, 48321), (484, 48219), (502, 48153), (521, 48102), (530, 48084), (543, 48039), (593, 47796), (602, 47754), (603, 47751), (605, 47745), (610, 47727), (634, 47631), (640, 47613), (648, 47577), (688, 47433), (692, 47424), (699, 47400), (722, 47349), (759, 47220), (795, 47130), (799, 47121), (824, 47049), (831, 47028), (884, 46872), (889, 46857), (962, 46608),

Gene: EnochSoames_57 Start: 40522, Stop: 37043, Start Num: 66

Candidate Starts for EnochSoames_57:

(Start: 32 @40591 has 9 MA's), (Start: 66 @40522 has 166 MA's), (83, 40450), (Start: 89 @40423 has 8 MA's), (91, 40408), (126, 40246), (132, 40219), (134, 40213), (156, 40123), (161, 40108), (173, 40054), (174, 40051), (198, 39955), (226, 39877), (255, 39730), (270, 39691), (282, 39646), (Start: 290 @39625 has 6 MA's), (295, 39610), (321, 39568), (326, 39556), (347, 39490), (350, 39478), (365, 39415), (381, 39286), (382, 39277), (388, 39241), (404, 39157), (407, 39139), (422, 39082), (423, 39079), (426, 39067), (469, 38929), (471, 38923), (474, 38908), (476, 38902), (493, 38845), (504, 38791), (514, 38758), (558, 38617), (576, 38560), (580, 38536), (581, 38530), (592, 38461), (602, 38398), (618, 38332), (623, 38311), (630, 38293), (645, 38236), (647, 38227), (675, 38119), (678, 38110), (681, 38098), (684, 38077), (697, 38047), (706, 38020), (731, 37954), (733, 37945), (737, 37933), (765, 37846), (776, 37822), (792, 37774), (833, 37630), (855, 37555), (905, 37381), (914, 37345), (928, 37297), (936, 37264),

Gene: Enygma_82 Start: 60218, Stop: 63538, Start Num: 67

Candidate Starts for Enygma_82:

(Start: 67 @60218 has 30 MA's), (84, 60290), (Start: 89 @60314 has 8 MA's), (157, 60593), (214, 60773), (226, 60821), (235, 60878), (245, 60929), (249, 60947), (251, 60956), (262, 60992), (298, 61109), (358, 61319), (371, 61388), (395, 61553), (411, 61631), (469, 61793), (499, 61916), (508, 61973), (521, 62000), (548, 62072), (592, 62276), (603, 62330), (606, 62339), (610, 62357), (612, 62363), (643, 62477), (666, 62555), (672, 62579), (675, 62606), (706, 62714), (760, 62903), (790, 62981), (806, 63023), (809, 63041), (822, 63083), (835, 63128), (845, 63155), (855, 63194), (870, 63242), (873, 63251), (895, 63323), (897, 63335), (899, 63344), (907, 63371), (911, 63374), (922,

63419), (923, 63422), (938, 63476), (942, 63491),

Gene: Erdmann_210 Start: 113397, Stop: 116885, Start Num: 23

Candidate Starts for Erdmann_210:

(Start: 23 @113397 has 44 MA's), (Start: 25 @113403 has 6 MA's), (Start: 32 @113415 has 9 MA's), (38, 113424), (Start: 66 @113490 has 166 MA's), (83, 113565), (104, 113679), (112, 113703), (133, 113763), (162, 113874), (170, 113913), (177, 113937), (185, 113979), (211, 114078), (221, 114120), (222, 114126), (227, 114138), (237, 114201), (251, 114261), (252, 114264), (259, 114291), (272, 114333), (Start: 292 @114396 has 9 MA's), (351, 114552), (356, 114570), (359, 114585), (373, 114702), (379, 114741), (395, 114861), (403, 114903), (413, 114948), (415, 114957), (428, 115008), (441, 115050), (461, 115116), (464, 115125), (465, 115128), (467, 115134), (468, 115137), (469, 115146), (471, 115152), (474, 115167), (499, 115254), (530, 115359), (541, 115413), (556, 115500), (562, 115530), (572, 115560), (579, 115593), (581, 115602), (592, 115674), (596, 115704), (622, 115821), (632, 115866), (643, 115908), (680, 116052), (702, 116112), (738, 116214), (770, 116301), (772, 116304), (779, 116322), (791, 116358), (792, 116361), (813, 116421), (818, 116439), (851, 116535), (858, 116565), (864, 116583), (876, 116613), (911, 116706), (914, 116721), (939, 116802), (940, 116808), (944, 116820),

Gene: Erk16_66 Start: 49865, Stop: 53167, Start Num: 26

Candidate Starts for Erk16_66:

(Start: 26 @49865 has 20 MA's), (Start: 61 @49952 has 1 MA's), (65, 49958), (Start: 72 @49967 has 72 MA's), (Start: 89 @50063 has 8 MA's), (127, 50219), (151, 50306), (152, 50309), (163, 50360), (233, 50624), (240, 50663), (258, 50735), (261, 50744), (283, 50819), (308, 50885), (309, 50891), (329, 50945), (338, 50963), (347, 51014), (348, 51017), (355, 51047), (371, 51131), (372, 51140), (376, 51167), (378, 51182), (405, 51359), (407, 51368), (435, 51473), (469, 51554), (482, 51614), (502, 51689), (508, 51722), (512, 51728), (526, 51749), (530, 51758), (543, 51803), (560, 51872), (565, 51887), (582, 51956), (592, 52019), (600, 52052), (601, 52055), (612, 52106), (631, 52181), (666, 52304), (671, 52322), (691, 52400), (692, 52403), (695, 52415), (710, 52460), (721, 52481), (724, 52493), (733, 52523), (740, 52544), (801, 52616), (829, 52673), (860, 52772), (882, 52838), (906, 52928), (916, 52958), (917, 52961), (927, 52991), (938, 53036), (951, 53078), (961, 53108), (964, 53120), (969, 53135), (971, 53144),

Gene: ErnieJ_202 Start: 111218, Stop: 114706, Start Num: 23

Candidate Starts for ErnieJ_202:

(Start: 23 @111218 has 44 MA's), (Start: 25 @111224 has 6 MA's), (Start: 32 @111236 has 9 MA's), (38, 111245), (Start: 66 @111311 has 166 MA's), (83, 111386), (104, 111500), (112, 111524), (133, 111584), (162, 111695), (170, 111734), (177, 111758), (185, 111800), (211, 111899), (221, 111941), (222, 111947), (227, 111959), (237, 112022), (251, 112082), (252, 112085), (259, 112112), (272, 112154), (Start: 292 @112217 has 9 MA's), (344, 112337), (351, 112373), (356, 112391), (359, 112406), (373, 112523), (379, 112562), (395, 112682), (403, 112724), (413, 112769), (415, 112778), (428, 112829), (441, 112871), (461, 112937), (464, 112946), (465, 112949), (467, 112955), (468, 112958), (469, 112967), (471, 112973), (474, 112988), (499, 113075), (530, 113180), (541, 113234), (556, 113321), (562, 113351), (572, 113381), (579, 113414), (581, 113423), (592, 113495), (596, 113525), (622, 113642), (632, 113687), (643, 113729), (680, 113873), (702, 113933), (738, 114035), (770, 114122), (772, 114125), (779, 114143), (791, 114179), (792, 114182), (813, 114242), (818, 114260), (851, 114356), (858, 114386), (864, 114404), (876, 114434), (911, 114527), (914, 114542), (939, 114623), (940, 114629), (944, 114641),

Gene: Erudite_56 Start: 40834, Stop: 43134, Start Num: 287

Candidate Starts for Erudite_56:

(Start: 287 @40834 has 29 MA's), (Start: 290 @40840 has 6 MA's), (324, 40915), (344, 40987), (348, 41008), (356, 41041), (358, 41053), (359, 41056), (361, 41074), (364, 41080), (375, 41149), (378, 41173), (381, 41212), (391, 41269), (405, 41350), (435, 41464), (440, 41476), (471, 41551), (475,

41569), (493, 41647), (496, 41653), (498, 41662), (503, 41695), (508, 41725), (512, 41731), (526, 41752), (530, 41761), (538, 41791), (558, 41866), (560, 41875), (570, 41899), (571, 41905), (575, 41920), (592, 42022), (608, 42094), (614, 42118), (635, 42202), (663, 42292), (666, 42304), (671, 42322), (687, 42400), (688, 42406), (692, 42415), (702, 42448), (729, 42520), (840, 42700), (850, 42730), (868, 42793), (892, 42865), (918, 42949), (929, 42988), (938, 43021), (953, 43066), (966, 43111), (969, 43117),

Gene: Erutan_79 Start: 51975, Stop: 55283, Start Num: 76

Candidate Starts for Erutan_79:

(Start: 76 @51975 has 4 MA's), (Start: 81 @52002 has 1 MA's), (84, 52014), (Start: 89 @52038 has 8 MA's), (94, 52083), (104, 52125), (173, 52386), (204, 52488), (213, 52521), (233, 52617), (304, 52887), (Start: 307 @52896 has 8 MA's), (338, 53004), (346, 53049), (356, 53091), (378, 53223), (379, 53226), (380, 53256), (383, 53277), (395, 53346), (405, 53400), (430, 53499), (435, 53514), (455, 53556), (502, 53730), (508, 53763), (521, 53781), (530, 53799), (543, 53844), (544, 53847), (571, 53943), (580, 53985), (582, 53997), (587, 54033), (629, 54213), (640, 54255), (648, 54291), (666, 54345), (671, 54363), (692, 54459), (695, 54471), (795, 54666), (829, 54750), (853, 54831), (862, 54855), (867, 54870), (879, 54906), (882, 54918), (884, 54924), (885, 54927), (893, 54954), (903, 54999), (935, 55107), (950, 55152), (958, 55176), (969, 55212),

Gene: Esperer_53 Start: 40052, Stop: 36573, Start Num: 66

Candidate Starts for Esperer_53:

(1, 40313), (Start: 66 @40052 has 166 MA's), (83, 39980), (Start: 89 @39953 has 8 MA's), (91, 39938), (126, 39776), (132, 39749), (134, 39743), (156, 39653), (161, 39638), (173, 39584), (174, 39581), (198, 39485), (226, 39407), (236, 39347), (255, 39260), (270, 39221), (282, 39176), (Start: 290 @39155 has 6 MA's), (295, 39140), (321, 39098), (326, 39086), (347, 39020), (350, 39008), (365, 38945), (381, 38816), (382, 38807), (388, 38771), (404, 38687), (407, 38669), (422, 38612), (423, 38609), (426, 38597), (469, 38459), (471, 38453), (474, 38438), (476, 38432), (482, 38399), (504, 38321), (514, 38288), (558, 38147), (576, 38090), (580, 38066), (581, 38060), (592, 37991), (602, 37928), (618, 37862), (623, 37841), (630, 37823), (645, 37766), (647, 37757), (675, 37649), (678, 37640), (681, 37628), (684, 37607), (697, 37577), (706, 37550), (731, 37484), (733, 37475), (737, 37463), (765, 37376), (776, 37352), (792, 37304), (833, 37160), (855, 37085), (905, 36911), (914, 36875), (928, 36827), (936, 36794),

Gene: Essence_206 Start: 112272, Stop: 115667, Start Num: 66

Candidate Starts for Essence_206:

(Start: 23 @112179 has 44 MA's), (Start: 25 @112185 has 6 MA's), (Start: 32 @112197 has 9 MA's), (38, 112206), (Start: 66 @112272 has 166 MA's), (83, 112347), (104, 112461), (112, 112485), (133, 112545), (162, 112656), (170, 112695), (177, 112719), (185, 112761), (211, 112860), (221, 112902), (222, 112908), (227, 112920), (237, 112983), (251, 113043), (252, 113046), (259, 113073), (272, 113115), (Start: 292 @113178 has 9 MA's), (351, 113334), (356, 113352), (359, 113367), (373, 113484), (379, 113523), (395, 113643), (403, 113685), (413, 113730), (415, 113739), (428, 113790), (441, 113832), (461, 113898), (464, 113907), (465, 113910), (467, 113916), (468, 113919), (469, 113928), (471, 113934), (474, 113949), (499, 114036), (530, 114141), (541, 114195), (556, 114282), (562, 114312), (572, 114342), (579, 114375), (581, 114384), (592, 114456), (596, 114486), (622, 114603), (632, 114648), (643, 114690), (680, 114834), (702, 114894), (738, 114996), (770, 115083), (772, 115086), (779, 115104), (791, 115140), (792, 115143), (813, 115203), (818, 115221), (851, 115317), (858, 115347), (864, 115365), (876, 115395), (911, 115488), (914, 115503), (939, 115584), (940, 115590), (944, 115602),

Gene: Evy_80 Start: 59063, Stop: 62347, Start Num: 68

Candidate Starts for Evy_80:

(Start: 68 @59063 has 63 MA's), (78, 59108), (84, 59138), (88, 59156), (Start: 89 @59162 has 8 MA's), (100, 59228), (157, 59441), (214, 59621), (235, 59726), (249, 59789), (250, 59795), (262, 59834),

(289, 59924), (298, 59951), (334, 60050), (358, 60161), (367, 60191), (368, 60194), (371, 60230), (411, 60473), (418, 60503), (471, 60617), (474, 60632), (497, 60722), (498, 60728), (499, 60734), (521, 60818), (543, 60881), (548, 60890), (554, 60917), (564, 60962), (580, 61025), (592, 61097), (603, 61151), (606, 61160), (608, 61169), (610, 61178), (612, 61184), (675, 61427), (698, 61496), (735, 61613), (757, 61703), (775, 61745), (795, 61808), (807, 61841), (822, 61892), (835, 61937), (855, 62003), (870, 62051), (895, 62132), (896, 62141), (911, 62183), (923, 62231), (928, 62246),

Gene: Ewok_208 Start: 113408, Stop: 116803, Start Num: 66

Candidate Starts for Ewok_208:

(Start: 23 @113315 has 44 MA's), (Start: 25 @113321 has 6 MA's), (Start: 32 @113333 has 9 MA's), (38, 113342), (Start: 66 @113408 has 166 MA's), (83, 113483), (104, 113597), (112, 113621), (133, 113681), (162, 113792), (170, 113831), (177, 113855), (185, 113897), (211, 113996), (221, 114038), (222, 114044), (227, 114056), (237, 114119), (251, 114179), (252, 114182), (259, 114209), (272, 114251), (Start: 292 @114314 has 9 MA's), (344, 114434), (351, 114470), (356, 114488), (359, 114503), (373, 114620), (379, 114659), (395, 114779), (403, 114821), (413, 114866), (415, 114875), (428, 114926), (441, 114968), (461, 115034), (464, 115043), (465, 115046), (467, 115052), (468, 115055), (469, 115064), (471, 115070), (474, 115085), (499, 115172), (530, 115277), (541, 115331), (556, 115418), (562, 115448), (572, 115478), (579, 115511), (581, 115520), (592, 115592), (596, 115622), (622, 115739), (632, 115784), (643, 115826), (680, 115970), (702, 116030), (738, 116132), (770, 116219), (772, 116222), (779, 116240), (791, 116276), (792, 116279), (813, 116339), (818, 116357), (851, 116453), (858, 116483), (864, 116501), (876, 116531), (911, 116624), (914, 116639), (939, 116720), (940, 116726), (944, 116738),

Gene: Faust_61 Start: 49769, Stop: 53059, Start Num: 68

Candidate Starts for Faust_61:

(Start: 68 @49769 has 63 MA's), (74, 49784), (75, 49790), (84, 49841), (Start: 89 @49865 has 8 MA's), (157, 50144), (172, 50204), (210, 50318), (214, 50324), (235, 50429), (249, 50492), (250, 50498), (262, 50537), (398, 51116), (460, 51281), (471, 51320), (497, 51425), (498, 51431), (499, 51437), (502, 51461), (514, 51503), (535, 51554), (548, 51593), (564, 51665), (580, 51728), (592, 51800), (603, 51854), (606, 51863), (608, 51872), (610, 51881), (612, 51887), (663, 52067), (666, 52079), (672, 52103), (678, 52139), (679, 52142), (698, 52199), (700, 52205), (704, 52217), (737, 52322), (760, 52415), (799, 52520), (804, 52532), (820, 52589), (822, 52595), (835, 52640), (855, 52706), (857, 52715), (874, 52766), (911, 52886), (925, 52937), (928, 52949), (953, 53036),

Gene: Finch_77 Start: 65462, Stop: 68653, Start Num: 71

Candidate Starts for Finch_77:

(Start: 71 @65462 has 2 MA's), (83, 65525), (106, 65648), (147, 65789), (149, 65798), (156, 65822), (163, 65858), (171, 65882), (184, 65939), (193, 65978), (198, 66002), (211, 66044), (227, 66104), (237, 66167), (252, 66224), (255, 66239), (259, 66251), (264, 66266), (278, 66311), (Start: 292 @66353 has 9 MA's), (321, 66407), (334, 66431), (335, 66434), (344, 66473), (354, 66521), (356, 66527), (362, 66563), (365, 66569), (375, 66638), (385, 66734), (395, 66782), (409, 66848), (410, 66854), (441, 66926), (442, 66929), (464, 67001), (465, 67004), (467, 67010), (479, 67067), (482, 67082), (486, 67091), (491, 67106), (499, 67127), (500, 67136), (519, 67205), (547, 67289), (549, 67295), (553, 67313), (558, 67343), (571, 67382), (590, 67496), (592, 67499), (602, 67550), (603, 67553), (605, 67559), (617, 67613), (618, 67616), (622, 67631), (628, 67658), (636, 67694), (648, 67748), (663, 67790), (684, 67892), (702, 67934), (703, 67937), (706, 67949), (731, 68012), (732, 68018), (750, 68090), (760, 68102), (770, 68132), (792, 68189), (845, 68270), (848, 68279), (873, 68360), (890, 68408), (893, 68420), (911, 68462), (912, 68471), (921, 68504), (937, 68552),

Gene: Flabslab_204 Start: 111453, Stop: 114848, Start Num: 66

Candidate Starts for Flabslab_204:

(Start: 23 @111360 has 44 MA's), (Start: 25 @111366 has 6 MA's), (Start: 32 @111378 has 9 MA's), (38, 111387), (Start: 66 @111453 has 166 MA's), (83, 111528), (104, 111642), (112, 111666), (133,

111726), (162, 111837), (170, 111876), (177, 111900), (185, 111942), (211, 112041), (221, 112083), (222, 112089), (227, 112101), (237, 112164), (251, 112224), (252, 112227), (259, 112254), (272, 112296), (Start: 292 @112359 has 9 MA's), (344, 112479), (351, 112515), (356, 112533), (359, 112548), (373, 112665), (379, 112704), (395, 112824), (403, 112866), (413, 112911), (415, 112920), (428, 112971), (441, 113013), (461, 113079), (464, 113088), (465, 113091), (467, 113097), (468, 113100), (469, 113109), (471, 113115), (474, 113130), (499, 113217), (530, 113322), (541, 113376), (556, 113463), (562, 113493), (572, 113523), (579, 113556), (581, 113565), (592, 113637), (596, 113667), (622, 113784), (632, 113829), (643, 113871), (680, 114015), (702, 114075), (738, 114177), (770, 114264), (772, 114267), (779, 114285), (791, 114321), (792, 114324), (813, 114384), (818, 114402), (851, 114498), (858, 114528), (864, 114546), (876, 114576), (911, 114669), (914, 114684), (939, 114765), (940, 114771), (944, 114783),

Gene: Flapper_64 Start: 49579, Stop: 46298, Start Num: 72

Candidate Starts for Flapper_64:

(24, 49672), (Start: 70 @49582 has 4 MA's), (Start: 72 @49579 has 72 MA's), (73, 49570), (86, 49498), (Start: 89 @49483 has 8 MA's), (94, 49438), (124, 49327), (127, 49318), (144, 49252), (160, 49195), (198, 49069), (206, 49030), (212, 49006), (218, 48979), (222, 48961), (226, 48952), (234, 48898), (Start: 292 @48685 has 9 MA's), (311, 48661), (347, 48526), (376, 48367), (378, 48352), (444, 48034), (460, 48010), (475, 47953), (502, 47842), (530, 47773), (535, 47758), (543, 47728), (586, 47539), (593, 47491), (602, 47449), (603, 47446), (605, 47440), (610, 47422), (634, 47326), (640, 47308), (648, 47272), (692, 47107), (701, 47077), (711, 47047), (744, 47008), (759, 46954), (776, 46930), (795, 46867), (817, 46807), (831, 46765), (878, 46621), (879, 46618), (888, 46594), (951, 46378), (962, 46342), (971, 46312),

Gene: Float294_60 Start: 49099, Stop: 45785, Start Num: 72

Candidate Starts for Float294_60:

(2, 49324), (12, 49240), (Start: 72 @49099 has 72 MA's), (Start: 89 @49003 has 8 MA's), (124, 48850), (127, 48841), (160, 48718), (204, 48559), (206, 48553), (234, 48421), (240, 48391), (261, 48310), (284, 48229), (311, 48184), (356, 48013), (365, 47971), (376, 47893), (378, 47878), (399, 47740), (415, 47662), (460, 47542), (484, 47440), (502, 47374), (521, 47323), (530, 47305), (543, 47260), (593, 47017), (602, 46975), (603, 46972), (605, 46966), (610, 46948), (634, 46852), (640, 46834), (648, 46798), (688, 46654), (692, 46645), (699, 46621), (722, 46570), (759, 46441), (795, 46351), (799, 46342), (817, 46291), (824, 46270), (831, 46249), (884, 46093), (889, 46078), (962, 45829),

Gene: Fludd_209 Start: 112844, Stop: 116239, Start Num: 66

Candidate Starts for Fludd_209:

(Start: 23 @112751 has 44 MA's), (Start: 25 @112757 has 6 MA's), (Start: 32 @112769 has 9 MA's), (38, 112778), (Start: 66 @112844 has 166 MA's), (83, 112919), (104, 113033), (112, 113057), (133, 113117), (162, 113228), (170, 113267), (177, 113291), (185, 113333), (211, 113432), (221, 113474), (222, 113480), (227, 113492), (237, 113555), (251, 113615), (252, 113618), (259, 113645), (272, 113687), (Start: 292 @113750 has 9 MA's), (344, 113870), (351, 113906), (356, 113924), (359, 113939), (373, 114056), (379, 114095), (395, 114215), (403, 114257), (413, 114302), (415, 114311), (428, 114362), (441, 114404), (461, 114470), (464, 114479), (465, 114482), (467, 114488), (468, 114491), (469, 114500), (471, 114506), (474, 114521), (499, 114608), (530, 114713), (541, 114767), (556, 114854), (562, 114884), (572, 114914), (579, 114947), (581, 114956), (592, 115028), (596, 115058), (622, 115175), (632, 115220), (643, 115262), (680, 115406), (702, 115466), (738, 115568), (770, 115655), (772, 115658), (779, 115676), (791, 115712), (792, 115715), (813, 115775), (818, 115793), (851, 115889), (858, 115919), (864, 115937), (876, 115967), (911, 116060), (914, 116075), (939, 116156), (940, 116162), (944, 116174),

Gene: FlyingTortilla_98 Start: 74166, Stop: 76973, Start Num: 54

Candidate Starts for FlyingTortilla_98:

(19, 74061), (29, 74103), (Start: 46 @74151 has 1 MA's), (Start: 54 @74166 has 8 MA's), (83, 74256), (87, 74271), (92, 74316), (109, 74394), (131, 74466), (158, 74574), (163, 74604), (164, 74607), (165, 74610), (180, 74670), (185, 74691), (193, 74721), (222, 74838), (235, 74904), (237, 74913), (238, 74916), (273, 75045), (Start: 290 @75099 has 6 MA's), (347, 75210), (351, 75228), (355, 75243), (357, 75249), (359, 75261), (367, 75288), (368, 75291), (375, 75351), (376, 75360), (379, 75375), (394, 75489), (438, 75687), (443, 75711), (448, 75729), (457, 75762), (472, 75819), (473, 75822), (483, 75867), (486, 75870), (499, 75909), (500, 75918), (504, 75942), (505, 75948), (512, 75972), (514, 75975), (521, 75993), (529, 76005), (564, 76134), (566, 76140), (574, 76164), (578, 76182), (580, 76194), (600, 76311), (602, 76329), (603, 76332), (606, 76341), (633, 76446), (635, 76455), (641, 76482), (675, 76614), (679, 76626), (681, 76632), (703, 76698), (708, 76716), (712, 76728), (714, 76737), (728, 76773), (750, 76851), (762, 76878), (787, 76953), (791, 76962),

Gene: Fongie_210 Start: 113431, Stop: 116826, Start Num: 66

Candidate Starts for Fongie_210:

(Start: 23 @113338 has 44 MA's), (Start: 25 @113344 has 6 MA's), (Start: 32 @113356 has 9 MA's), (38, 113365), (Start: 66 @113431 has 166 MA's), (83, 113506), (104, 113620), (112, 113644), (133, 113704), (162, 113815), (170, 113854), (177, 113878), (185, 113920), (211, 114019), (221, 114061), (222, 114067), (227, 114079), (237, 114142), (251, 114202), (252, 114205), (259, 114232), (272, 114274), (Start: 292 @114337 has 9 MA's), (351, 114493), (356, 114511), (359, 114526), (373, 114643), (379, 114682), (395, 114802), (403, 114844), (413, 114889), (415, 114898), (428, 114949), (441, 114991), (461, 115057), (464, 115066), (465, 115069), (467, 115075), (468, 115078), (469, 115087), (471, 115093), (474, 115108), (499, 115195), (530, 115300), (541, 115354), (556, 115441), (562, 115471), (572, 115501), (579, 115534), (581, 115543), (592, 115615), (596, 115645), (622, 115762), (632, 115807), (643, 115849), (680, 115993), (702, 116053), (738, 116155), (770, 116242), (772, 116245), (779, 116263), (791, 116299), (792, 116302), (813, 116362), (818, 116380), (851, 116476), (858, 116506), (864, 116524), (876, 116554), (911, 116647), (914, 116662), (939, 116743), (940, 116749), (944, 116761),

Gene: Forrest_62 Start: 49341, Stop: 52631, Start Num: 68

Candidate Starts for Forrest_62:

(Start: 68 @49341 has 63 MA's), (74, 49356), (75, 49362), (84, 49413), (Start: 89 @49437 has 8 MA's), (135, 49626), (157, 49716), (172, 49776), (214, 49896), (235, 50001), (249, 50064), (250, 50070), (262, 50109), (346, 50382), (358, 50436), (367, 50466), (371, 50505), (378, 50553), (460, 50853), (471, 50892), (497, 50997), (498, 51003), (499, 51009), (504, 51042), (507, 51057), (514, 51075), (519, 51087), (521, 51093), (535, 51126), (543, 51156), (548, 51165), (562, 51231), (564, 51237), (567, 51246), (580, 51300), (592, 51372), (603, 51426), (606, 51435), (610, 51453), (612, 51459), (643, 51573), (663, 51639), (666, 51651), (678, 51711), (679, 51714), (700, 51777), (702, 51783), (704, 51789), (737, 51894), (747, 51942), (748, 51945), (774, 52014), (795, 52083), (799, 52092), (820, 52161), (822, 52167), (826, 52179), (835, 52212), (836, 52215), (855, 52278), (857, 52287), (864, 52308), (867, 52320), (881, 52362), (911, 52458), (919, 52494), (922, 52503), (928, 52521), (955, 52617),

Gene: Foxboro_61 Start: 49613, Stop: 46299, Start Num: 72

Candidate Starts for Foxboro_61:

(3, 49856), (Start: 72 @49613 has 72 MA's), (84, 49541), (Start: 89 @49517 has 8 MA's), (94, 49472), (124, 49364), (127, 49355), (160, 49232), (204, 49073), (206, 49067), (212, 49043), (234, 48935), (240, 48905), (256, 48836), (311, 48698), (317, 48680), (356, 48527), (365, 48485), (370, 48446), (376, 48407), (378, 48392), (399, 48254), (460, 48056), (475, 47999), (491, 47939), (502, 47888), (530, 47819), (543, 47774), (602, 47489), (603, 47486), (605, 47480), (610, 47462), (634, 47366), (648, 47312), (670, 47243), (692, 47159), (708, 47108), (711, 47099), (744, 47009), (759, 46955), (779, 46913), (795, 46865), (824, 46784), (831, 46763), (857, 46673), (871, 46643), (878, 46619), (879, 46616), (930, 46433), (951, 46376),

Gene: FoxtrotP1_207 Start: 114088, Stop: 117483, Start Num: 66

Candidate Starts for FoxtrotP1_207:

(Start: 23 @113995 has 44 MA's), (Start: 25 @114001 has 6 MA's), (Start: 32 @114013 has 9 MA's), (38, 114022), (Start: 66 @114088 has 166 MA's), (83, 114163), (104, 114277), (112, 114301), (133, 114361), (162, 114472), (170, 114511), (177, 114535), (185, 114577), (211, 114676), (221, 114718), (222, 114724), (227, 114736), (237, 114799), (251, 114859), (252, 114862), (259, 114889), (272, 114931), (Start: 292 @114994 has 9 MA's), (351, 115150), (356, 115168), (359, 115183), (373, 115300), (379, 115339), (395, 115459), (403, 115501), (413, 115546), (415, 115555), (428, 115606), (441, 115648), (461, 115714), (464, 115723), (465, 115726), (467, 115732), (468, 115735), (469, 115744), (471, 115750), (474, 115765), (499, 115852), (530, 115957), (541, 116011), (556, 116098), (562, 116128), (572, 116158), (579, 116191), (581, 116200), (592, 116272), (596, 116302), (622, 116419), (632, 116464), (643, 116506), (680, 116650), (702, 116710), (738, 116812), (770, 116899), (772, 116902), (779, 116920), (791, 116956), (792, 116959), (813, 117019), (818, 117037), (851, 117133), (858, 117163), (864, 117181), (876, 117211), (911, 117304), (914, 117319), (939, 117400), (940, 117406), (944, 117418),

Gene: Francesca_77 Start: 61162, Stop: 64965, Start Num: 64

Candidate Starts for Francesca_77:

(Start: 64 @61162 has 2 MA's), (Start: 71 @61171 has 2 MA's), (88, 61261), (97, 61321), (106, 61363), (165, 61582), (170, 61597), (199, 61696), (210, 61720), (243, 61882), (251, 61909), (262, 61945), (295, 62053), (320, 62110), (331, 62155), (334, 62164), (353, 62251), (359, 62278), (369, 62314), (373, 62356), (378, 62392), (407, 62578), (409, 62581), (430, 62668), (456, 62725), (482, 62824), (491, 62851), (521, 62965), (536, 63007), (548, 63037), (565, 63109), (601, 63277), (603, 63295), (610, 63322), (626, 63388), (632, 63409), (642, 63436), (646, 63454), (675, 63565), (677, 63571), (694, 63628), (717, 63706), (726, 63739), (750, 63841), (799, 63976), (810, 64012), (837, 64090), (847, 64120), (861, 64174), (864, 64183), (898, 64300), (936, 64429), (940, 64444), (945, 64459), (973, 64552), (984, 64627), (988, 64654), (989, 64660), (990, 64666), (993, 64705), (994, 64717), (995, 64738), (999, 64807), (1000, 64840), (1001, 64864), (1007, 64933),

Gene: Francob_59 Start: 48697, Stop: 51987, Start Num: 68

Candidate Starts for Francob_59:

(Start: 68 @48697 has 63 MA's), (75, 48718), (84, 48769), (Start: 89 @48793 has 8 MA's), (157, 49072), (172, 49132), (214, 49252), (235, 49357), (249, 49420), (250, 49426), (262, 49465), (289, 49555), (372, 49870), (378, 49909), (460, 50209), (471, 50248), (499, 50365), (504, 50398), (514, 50431), (521, 50449), (535, 50482), (548, 50521), (562, 50587), (564, 50593), (580, 50656), (592, 50728), (603, 50782), (606, 50791), (608, 50800), (610, 50809), (612, 50815), (643, 50929), (663, 50995), (666, 51007), (678, 51067), (679, 51070), (698, 51127), (700, 51133), (702, 51139), (704, 51145), (737, 51250), (748, 51301), (799, 51448), (820, 51517), (822, 51523), (826, 51535), (855, 51634), (857, 51643), (874, 51694), (885, 51727), (911, 51814), (925, 51865), (928, 51877),

Gene: FrayBell_212 Start: 112934, Stop: 116329, Start Num: 66

Candidate Starts for FrayBell_212:

(Start: 23 @112841 has 44 MA's), (Start: 25 @112847 has 6 MA's), (Start: 32 @112859 has 9 MA's), (38, 112868), (Start: 66 @112934 has 166 MA's), (83, 113009), (104, 113123), (112, 113147), (133, 113207), (162, 113318), (170, 113357), (177, 113381), (185, 113423), (211, 113522), (221, 113564), (222, 113570), (227, 113582), (237, 113645), (251, 113705), (252, 113708), (259, 113735), (272, 113777), (Start: 292 @113840 has 9 MA's), (351, 113996), (356, 114014), (359, 114029), (373, 114146), (379, 114185), (395, 114305), (403, 114347), (413, 114392), (415, 114401), (428, 114452), (441, 114494), (461, 114560), (464, 114569), (465, 114572), (467, 114578), (468, 114581), (469, 114590), (471, 114596), (474, 114611), (499, 114698), (530, 114803), (541, 114857), (556, 114944), (562, 114974), (572, 115004), (579, 115037), (581, 115046), (592, 115118), (596, 115148), (622, 115265), (632, 115310), (643, 115352), (680, 115496), (702, 115556), (738, 115658), (770, 115745), (772, 115748), (779, 115766), (791, 115802), (792, 115805), (813, 115865), (818, 115883), (851,

115979), (858, 116009), (864, 116027), (876, 116057), (911, 116150), (914, 116165), (939, 116246), (940, 116252), (944, 116264),

Gene: FreddieHg_58 Start: 40716, Stop: 43019, Start Num: 287

Candidate Starts for FreddieHg_58:

(Start: 287 @40716 has 29 MA's), (Start: 290 @40722 has 6 MA's), (324, 40800), (344, 40872), (348, 40893), (356, 40926), (358, 40938), (359, 40941), (361, 40959), (364, 40965), (375, 41034), (378, 41058), (381, 41097), (388, 41142), (391, 41154), (405, 41235), (435, 41349), (440, 41361), (471, 41436), (475, 41454), (493, 41532), (496, 41538), (498, 41547), (503, 41580), (508, 41610), (512, 41616), (526, 41637), (530, 41646), (538, 41676), (558, 41751), (560, 41760), (570, 41784), (571, 41790), (572, 41796), (575, 41805), (592, 41907), (608, 41979), (614, 42003), (635, 42087), (663, 42177), (666, 42189), (671, 42207), (687, 42285), (688, 42291), (692, 42300), (702, 42333), (729, 42405), (840, 42585), (850, 42615), (868, 42678), (892, 42750), (929, 42873), (938, 42906), (953, 42951), (966, 42996), (969, 43002),

Gene: FudgeTart_204 Start: 112462, Stop: 115950, Start Num: 23

Candidate Starts for FudgeTart_204:

(Start: 23 @112462 has 44 MA's), (Start: 25 @112468 has 6 MA's), (Start: 32 @112480 has 9 MA's), (38, 112489), (Start: 66 @112555 has 166 MA's), (83, 112630), (104, 112744), (112, 112768), (133, 112828), (162, 112939), (170, 112978), (177, 113002), (185, 113044), (211, 113143), (221, 113185), (222, 113191), (227, 113203), (237, 113266), (251, 113326), (252, 113329), (259, 113356), (272, 113398), (Start: 292 @113461 has 9 MA's), (344, 113581), (351, 113617), (356, 113635), (359, 113650), (373, 113767), (379, 113806), (395, 113926), (403, 113968), (413, 114013), (415, 114022), (428, 114073), (441, 114115), (461, 114181), (464, 114190), (465, 114193), (467, 114199), (468, 114202), (469, 114211), (471, 114217), (474, 114232), (499, 114319), (530, 114424), (541, 114478), (556, 114565), (562, 114595), (572, 114625), (579, 114658), (581, 114667), (592, 114739), (596, 114769), (622, 114886), (632, 114931), (643, 114973), (680, 115117), (702, 115177), (738, 115279), (770, 115366), (772, 115369), (779, 115387), (791, 115423), (792, 115426), (813, 115486), (818, 115504), (851, 115600), (858, 115630), (864, 115648), (876, 115678), (911, 115771), (914, 115786), (939, 115867), (940, 115873), (944, 115885),

Gene: Fulcrum_78 Start: 51710, Stop: 55051, Start Num: 69

Candidate Starts for Fulcrum_78:

(41, 51662), (Start: 69 @51710 has 20 MA's), (Start: 81 @51770 has 1 MA's), (Start: 89 @51806 has 8 MA's), (94, 51851), (104, 51893), (173, 52154), (204, 52256), (213, 52289), (233, 52385), (304, 52655), (Start: 307 @52664 has 8 MA's), (338, 52772), (346, 52817), (356, 52859), (378, 52991), (379, 52994), (380, 53024), (395, 53114), (405, 53168), (430, 53267), (435, 53282), (455, 53324), (502, 53498), (508, 53531), (521, 53549), (530, 53567), (543, 53612), (544, 53615), (571, 53711), (580, 53753), (582, 53765), (587, 53801), (629, 53981), (640, 54023), (648, 54059), (666, 54113), (671, 54131), (692, 54227), (695, 54239), (795, 54434), (829, 54518), (862, 54623), (867, 54638), (879, 54674), (882, 54686), (884, 54692), (885, 54695), (893, 54722), (903, 54767), (935, 54875), (950, 54920), (958, 54944), (969, 54980),

Gene: Fury_67 Start: 47998, Stop: 44609, Start Num: 37

Candidate Starts for Fury_67:

(20, 48049), (Start: 37 @47998 has 2 MA's), (41, 47980), (49, 47953), (Start: 72 @47929 has 72 MA's), (86, 47848), (Start: 89 @47833 has 8 MA's), (96, 47782), (124, 47680), (127, 47671), (155, 47566), (160, 47548), (186, 47455), (204, 47389), (206, 47383), (209, 47371), (226, 47305), (234, 47251), (261, 47140), (267, 47119), (284, 47059), (294, 47032), (311, 47014), (344, 46897), (376, 46723), (378, 46708), (399, 46570), (419, 46477), (428, 46438), (460, 46372), (469, 46339), (475, 46315), (491, 46255), (502, 46204), (503, 46201), (504, 46195), (508, 46171), (521, 46153), (530, 46135), (543, 46090), (593, 45850), (601, 45823), (603, 45805), (605, 45799), (610, 45781), (634, 45685), (640, 45667), (646, 45643), (648, 45631), (682, 45499), (690, 45478), (692, 45472), (701, 45442),

(759, 45265), (778, 45229), (795, 45178), (817, 45118), (824, 45097), (831, 45076), (889, 44902), (951, 44689), (971, 44623),

Gene: GMA6_80 Start: 61160, Stop: 64054, Start Num: 28

Candidate Starts for GMA6_80:

(17, 61112), (Start: 23 @61148 has 44 MA's), (28, 61160), (34, 61169), (35, 61172), (Start: 51 @61223 has 2 MA's), (74, 61265), (78, 61292), (83, 61319), (90, 61355), (92, 61379), (96, 61397), (106, 61442), (134, 61538), (138, 61556), (140, 61562), (141, 61565), (145, 61580), (164, 61670), (165, 61673), (176, 61709), (185, 61754), (189, 61766), (192, 61778), (193, 61784), (194, 61790), (208, 61847), (214, 61862), (215, 61865), (216, 61874), (222, 61901), (235, 61967), (237, 61976), (253, 62042), (280, 62132), (322, 62210), (339, 62234), (343, 62246), (344, 62255), (347, 62273), (351, 62291), (359, 62324), (367, 62351), (370, 62384), (394, 62552), (424, 62696), (447, 62783), (448, 62792), (457, 62825), (460, 62834), (463, 62843), (470, 62870), (472, 62885), (475, 62891), (483, 62933), (486, 62936), (496, 62960), (499, 62975), (500, 62984), (502, 62999), (504, 63008), (508, 63032), (512, 63038), (514, 63041), (525, 63068), (554, 63155), (564, 63200), (574, 63230), (578, 63248), (580, 63260), (600, 63377), (606, 63407), (615, 63443), (618, 63455), (619, 63458), (630, 63503), (633, 63512), (639, 63536), (647, 63575), (675, 63683), (678, 63692), (706, 63779), (708, 63785), (735, 63866), (762, 63947), (783, 64004), (792, 64034),

Gene: GOATification_78 Start: 51710, Stop: 55051, Start Num: 69

Candidate Starts for GOATification_78:

(41, 51662), (Start: 69 @51710 has 20 MA's), (Start: 81 @51770 has 1 MA's), (Start: 89 @51806 has 8 MA's), (94, 51851), (104, 51893), (173, 52154), (204, 52256), (213, 52289), (233, 52385), (304, 52655), (Start: 307 @52664 has 8 MA's), (338, 52772), (346, 52817), (356, 52859), (378, 52991), (379, 52994), (380, 53024), (395, 53114), (405, 53168), (430, 53267), (435, 53282), (455, 53324), (502, 53498), (508, 53531), (521, 53549), (530, 53567), (543, 53612), (544, 53615), (571, 53711), (580, 53753), (582, 53765), (587, 53801), (629, 53981), (640, 54023), (648, 54059), (666, 54113), (671, 54131), (692, 54227), (695, 54239), (795, 54434), (829, 54518), (862, 54623), (867, 54638), (879, 54674), (882, 54686), (884, 54692), (885, 54695), (893, 54722), (903, 54767), (935, 54875), (950, 54920), (958, 54944), (969, 54980),

Gene: GRU1_49 Start: 41041, Stop: 37856, Start Num: 89

Candidate Starts for GRU1_49:

(Start: 71 @41137 has 2 MA's), (86, 41056), (Start: 89 @41041 has 8 MA's), (94, 40996), (124, 40885), (127, 40876), (144, 40810), (160, 40753), (198, 40627), (206, 40588), (212, 40564), (218, 40537), (226, 40510), (234, 40456), (Start: 292 @40243 has 9 MA's), (311, 40219), (376, 39925), (378, 39910), (444, 39592), (460, 39568), (475, 39511), (491, 39451), (502, 39400), (530, 39331), (535, 39316), (586, 39097), (593, 39049), (602, 39007), (603, 39004), (605, 38998), (610, 38980), (634, 38884), (640, 38866), (648, 38830), (692, 38665), (701, 38635), (711, 38605), (758, 38518), (759, 38512), (795, 38425), (817, 38365), (831, 38323), (878, 38179), (888, 38152), (951, 37936), (962, 37900), (971, 37870), (974, 37861),

Gene: GTE5_49 Start: 42214, Stop: 38933, Start Num: 72

Candidate Starts for GTE5_49:

(Start: 68 @42220 has 63 MA's), (Start: 72 @42214 has 72 MA's), (73, 42205), (86, 42133), (Start: 89 @42118 has 8 MA's), (124, 41962), (127, 41953), (160, 41830), (206, 41665), (212, 41641), (225, 41590), (234, 41533), (261, 41422), (Start: 292 @41320 has 9 MA's), (311, 41296), (376, 41002), (378, 40987), (444, 40669), (460, 40645), (475, 40588), (502, 40477), (503, 40474), (530, 40408), (535, 40393), (586, 40174), (593, 40126), (602, 40084), (603, 40081), (605, 40075), (610, 40057), (634, 39961), (640, 39943), (648, 39907), (692, 39742), (701, 39712), (711, 39682), (758, 39595), (759, 39589), (795, 39502), (817, 39442), (831, 39400), (878, 39256), (879, 39253), (888, 39229), (951, 39013), (962, 38977), (971, 38947),

Gene: GTE8_48 Start: 42138, Stop: 38830, Start Num: 72

Candidate Starts for GTE8_48:

(1, 42387), (8, 42309), (11, 42282), (Start: 72 @42138 has 72 MA's), (86, 42057), (Start: 89 @42042 has 8 MA's), (124, 41889), (127, 41880), (160, 41757), (204, 41598), (206, 41592), (212, 41568), (234, 41460), (240, 41430), (311, 41223), (347, 41088), (365, 41010), (376, 40932), (378, 40917), (460, 40581), (475, 40524), (491, 40464), (502, 40413), (530, 40344), (551, 40278), (602, 40014), (603, 40011), (605, 40005), (610, 39987), (616, 39963), (634, 39891), (648, 39837), (688, 39693), (692, 39684), (722, 39609), (759, 39480), (795, 39396), (824, 39315), (831, 39294), (878, 39150), (879, 39147), (888, 39123), (889, 39120), (917, 39018), (971, 38841),

Gene: Gabriel_212 Start: 112010, Stop: 115405, Start Num: 66

Candidate Starts for Gabriel_212:

(Start: 23 @111917 has 44 MA's), (Start: 25 @111923 has 6 MA's), (Start: 32 @111935 has 9 MA's), (38, 111944), (Start: 66 @112010 has 166 MA's), (83, 112085), (104, 112199), (112, 112223), (133, 112283), (162, 112394), (170, 112433), (177, 112457), (185, 112499), (211, 112598), (221, 112640), (222, 112646), (227, 112658), (237, 112721), (251, 112781), (252, 112784), (259, 112811), (272, 112853), (Start: 292 @112916 has 9 MA's), (351, 113072), (356, 113090), (359, 113105), (373, 113222), (379, 113261), (395, 113381), (403, 113423), (413, 113468), (415, 113477), (428, 113528), (441, 113570), (461, 113636), (464, 113645), (465, 113648), (467, 113654), (468, 113657), (469, 113666), (471, 113672), (474, 113687), (499, 113774), (530, 113879), (541, 113933), (556, 114020), (562, 114050), (572, 114080), (579, 114113), (581, 114122), (592, 114194), (596, 114224), (622, 114341), (632, 114386), (643, 114428), (680, 114572), (702, 114632), (738, 114734), (770, 114821), (772, 114824), (779, 114842), (791, 114878), (792, 114881), (813, 114941), (818, 114959), (851, 115055), (858, 115085), (864, 115103), (876, 115133), (911, 115226), (914, 115241), (939, 115322), (940, 115328), (944, 115340),

Gene: Gamgam_210 Start: 112367, Stop: 115762, Start Num: 66

Candidate Starts for Gamgam_210:

(Start: 23 @112274 has 44 MA's), (Start: 25 @112280 has 6 MA's), (Start: 32 @112292 has 9 MA's), (38, 112301), (Start: 66 @112367 has 166 MA's), (83, 112442), (104, 112556), (112, 112580), (133, 112640), (162, 112751), (170, 112790), (177, 112814), (185, 112856), (211, 112955), (221, 112997), (222, 113003), (227, 113015), (237, 113078), (251, 113138), (252, 113141), (259, 113168), (272, 113210), (Start: 292 @113273 has 9 MA's), (344, 113393), (351, 113429), (356, 113447), (359, 113462), (373, 113579), (379, 113618), (395, 113738), (403, 113780), (413, 113825), (415, 113834), (428, 113885), (441, 113927), (461, 113993), (464, 114002), (465, 114005), (467, 114011), (468, 114014), (469, 114023), (471, 114029), (474, 114044), (499, 114131), (530, 114236), (541, 114290), (556, 114377), (562, 114407), (572, 114437), (579, 114470), (581, 114479), (592, 114551), (596, 114581), (622, 114698), (632, 114743), (643, 114785), (680, 114929), (702, 114989), (738, 115091), (770, 115178), (772, 115181), (779, 115199), (791, 115235), (792, 115238), (813, 115298), (818, 115316), (851, 115412), (858, 115442), (864, 115460), (876, 115490), (911, 115583), (914, 115598), (939, 115679), (940, 115685), (944, 115697),

Gene: Genamy16_81 Start: 50797, Stop: 54042, Start Num: 89

Candidate Starts for Genamy16_81:

(Start: 69 @50701 has 20 MA's), (Start: 81 @50761 has 1 MA's), (Start: 89 @50797 has 8 MA's), (94, 50842), (104, 50884), (173, 51145), (213, 51280), (233, 51376), (304, 51646), (Start: 307 @51655 has 8 MA's), (338, 51763), (346, 51808), (356, 51850), (370, 51928), (378, 51982), (379, 51985), (380, 52015), (395, 52105), (405, 52159), (430, 52258), (435, 52273), (455, 52315), (502, 52489), (508, 52522), (521, 52540), (530, 52558), (543, 52603), (544, 52606), (571, 52702), (580, 52744), (582, 52756), (587, 52792), (629, 52972), (640, 53014), (648, 53050), (663, 53092), (666, 53104), (671, 53122), (692, 53218), (695, 53230), (795, 53425), (829, 53509), (862, 53614), (867, 53629), (873, 53644), (879, 53665), (882, 53677), (884, 53683), (885, 53686), (893, 53713), (903, 53758), (935, 53866), (950, 53911), (958, 53935), (969, 53971),

Gene: Genie2_82 Start: 58392, Stop: 61712, Start Num: 67

Candidate Starts for Genie2_82:

(Start: 67 @58392 has 30 MA's), (84, 58464), (Start: 89 @58488 has 8 MA's), (103, 58569), (157, 58767), (214, 58947), (226, 58995), (235, 59052), (245, 59103), (249, 59121), (251, 59130), (262, 59166), (295, 59274), (298, 59283), (328, 59355), (358, 59493), (371, 59562), (395, 59727), (411, 59805), (469, 59967), (475, 59991), (499, 60090), (521, 60174), (548, 60246), (592, 60450), (603, 60504), (606, 60513), (610, 60531), (612, 60537), (643, 60651), (666, 60729), (672, 60753), (675, 60780), (747, 61032), (748, 61035), (751, 61053), (755, 61065), (790, 61155), (809, 61215), (822, 61257), (834, 61296), (835, 61302), (845, 61329), (855, 61368), (870, 61416), (873, 61425), (895, 61497), (897, 61509), (899, 61518), (907, 61545), (911, 61548), (914, 61563), (923, 61596), (938, 61650), (942, 61665),

Gene: Ghost_209 Start: 112201, Stop: 115683, Start Num: 25

Candidate Starts for Ghost_209:

(Start: 23 @112195 has 44 MA's), (Start: 25 @112201 has 6 MA's), (Start: 32 @112213 has 9 MA's), (38, 112222), (Start: 66 @112288 has 166 MA's), (83, 112363), (104, 112477), (112, 112501), (133, 112561), (162, 112672), (170, 112711), (177, 112735), (185, 112777), (211, 112876), (221, 112918), (222, 112924), (227, 112936), (237, 112999), (251, 113059), (252, 113062), (259, 113089), (272, 113131), (Start: 292 @113194 has 9 MA's), (344, 113314), (351, 113350), (356, 113368), (359, 113383), (373, 113500), (379, 113539), (395, 113659), (403, 113701), (413, 113746), (415, 113755), (428, 113806), (441, 113848), (461, 113914), (464, 113923), (465, 113926), (467, 113932), (468, 113935), (469, 113944), (471, 113950), (474, 113965), (499, 114052), (530, 114157), (541, 114211), (556, 114298), (562, 114328), (572, 114358), (579, 114391), (581, 114400), (592, 114472), (596, 114502), (622, 114619), (632, 114664), (643, 114706), (680, 114850), (702, 114910), (738, 115012), (770, 115099), (772, 115102), (779, 115120), (791, 115156), (792, 115159), (813, 115219), (818, 115237), (851, 115333), (858, 115363), (864, 115381), (876, 115411), (911, 115504), (914, 115519), (939, 115600), (940, 115606), (944, 115618),

Gene: Gibbi_86 Start: 58555, Stop: 61875, Start Num: 67

Candidate Starts for Gibbi_86:

(Start: 67 @58555 has 30 MA's), (79, 58606), (84, 58627), (Start: 89 @58651 has 8 MA's), (103, 58732), (157, 58930), (214, 59110), (226, 59158), (227, 59161), (235, 59215), (245, 59266), (249, 59284), (251, 59293), (262, 59329), (295, 59437), (298, 59446), (358, 59656), (371, 59725), (395, 59890), (411, 59968), (428, 60037), (469, 60130), (499, 60253), (521, 60337), (543, 60400), (548, 60409), (592, 60613), (603, 60667), (606, 60676), (610, 60694), (612, 60700), (666, 60892), (672, 60916), (675, 60943), (706, 61051), (760, 61240), (790, 61318), (806, 61360), (809, 61378), (822, 61420), (834, 61459), (835, 61465), (845, 61492), (855, 61531), (870, 61579), (895, 61660), (899, 61681), (907, 61708), (911, 61711), (914, 61726), (923, 61759), (942, 61828),

Gene: Gibbin_81 Start: 52515, Stop: 55856, Start Num: 69

Candidate Starts for Gibbin_81:

(41, 52467), (Start: 69 @52515 has 20 MA's), (Start: 81 @52575 has 1 MA's), (Start: 89 @52611 has 8 MA's), (94, 52656), (104, 52698), (173, 52959), (204, 53061), (213, 53094), (233, 53190), (304, 53460), (Start: 307 @53469 has 8 MA's), (338, 53577), (346, 53622), (356, 53664), (378, 53796), (379, 53799), (380, 53829), (383, 53850), (395, 53919), (405, 53973), (430, 54072), (435, 54087), (455, 54129), (502, 54303), (508, 54336), (521, 54354), (530, 54372), (543, 54417), (544, 54420), (571, 54516), (580, 54558), (582, 54570), (587, 54606), (629, 54786), (640, 54828), (648, 54864), (666, 54918), (671, 54936), (692, 55032), (695, 55044), (795, 55239), (829, 55323), (853, 55404), (862, 55428), (867, 55443), (879, 55479), (882, 55491), (884, 55497), (885, 55500), (893, 55527), (903, 55572), (935, 55680), (950, 55725), (958, 55749), (969, 55785),

Gene: Gibson_51 Start: 39054, Stop: 35857, Start Num: 72

Candidate Starts for Gibson_51:

(58, 39075), (Start: 72 @39054 has 72 MA's), (78, 39012), (Start: 89 @38958 has 8 MA's), (97, 38904), (114, 38835), (117, 38826), (120, 38817), (128, 38787), (137, 38754), (146, 38718), (154, 38676), (157, 38664), (170, 38610), (197, 38541), (202, 38502), (214, 38460), (218, 38439), (233, 38367), (241, 38325), (254, 38262), (255, 38259), (283, 38169), (Start: 287 @38154 has 29 MA's), (291, 38145), (310, 38103), (316, 38088), (321, 38073), (349, 37977), (356, 37947), (371, 37866), (373, 37854), (376, 37830), (378, 37815), (379, 37812), (391, 37719), (404, 37647), (407, 37629), (417, 37587), (434, 37530), (442, 37503), (474, 37422), (476, 37416), (481, 37389), (496, 37338), (503, 37296), (508, 37266), (512, 37260), (530, 37230), (535, 37215), (538, 37200), (552, 37158), (553, 37155), (559, 37119), (564, 37104), (588, 36990), (661, 36711), (663, 36699), (666, 36687), (671, 36669), (688, 36576), (724, 36471), (817, 36360), (825, 36336), (859, 36219), (892, 36126), (916, 36048), (919, 36036), (927, 36015), (939, 35967), (951, 35931), (962, 35895), (966, 35880),

Gene: Gilda_57 Start: 41255, Stop: 43558, Start Num: 287

Candidate Starts for Gilda_57:

(Start: 287 @41255 has 29 MA's), (Start: 290 @41261 has 6 MA's), (324, 41339), (344, 41411), (348, 41432), (356, 41465), (358, 41477), (359, 41480), (361, 41498), (375, 41573), (378, 41597), (381, 41636), (388, 41681), (391, 41693), (405, 41774), (435, 41888), (440, 41900), (471, 41975), (475, 41993), (493, 42071), (496, 42077), (498, 42086), (503, 42119), (508, 42149), (512, 42155), (526, 42176), (530, 42185), (538, 42215), (558, 42290), (560, 42299), (570, 42323), (571, 42329), (575, 42344), (580, 42371), (592, 42446), (608, 42518), (614, 42542), (635, 42626), (663, 42716), (666, 42728), (671, 42746), (687, 42824), (688, 42830), (692, 42839), (702, 42872), (729, 42944), (840, 43124), (850, 43154), (868, 43217), (892, 43289), (929, 43412), (938, 43445), (953, 43490), (966, 43535), (969, 43541),

Gene: Gilson_61 Start: 48597, Stop: 51887, Start Num: 68

Candidate Starts for Gilson_61:

(Start: 68 @48597 has 63 MA's), (74, 48612), (75, 48618), (84, 48669), (Start: 89 @48693 has 8 MA's), (135, 48882), (157, 48972), (172, 49032), (214, 49152), (235, 49257), (249, 49320), (250, 49326), (262, 49365), (346, 49638), (358, 49692), (367, 49722), (371, 49761), (378, 49809), (460, 50109), (471, 50148), (497, 50253), (498, 50259), (499, 50265), (504, 50298), (507, 50313), (514, 50331), (519, 50343), (521, 50349), (535, 50382), (543, 50412), (548, 50421), (562, 50487), (564, 50493), (567, 50502), (580, 50556), (592, 50628), (603, 50682), (606, 50691), (610, 50709), (612, 50715), (643, 50829), (663, 50895), (666, 50907), (678, 50967), (679, 50970), (700, 51033), (702, 51039), (704, 51045), (737, 51150), (747, 51198), (748, 51201), (774, 51270), (795, 51339), (799, 51348), (820, 51417), (822, 51423), (826, 51435), (835, 51468), (836, 51471), (855, 51534), (857, 51543), (864, 51564), (867, 51576), (881, 51618), (911, 51714), (919, 51750), (922, 51759), (928, 51777), (955, 51873),

Gene: Giuseppe_68 Start: 49677, Stop: 52979, Start Num: 26

Candidate Starts for Giuseppe_68:

(Start: 26 @49677 has 20 MA's), (Start: 61 @49764 has 1 MA's), (65, 49770), (Start: 72 @49779 has 72 MA's), (Start: 89 @49875 has 8 MA's), (127, 50031), (151, 50118), (152, 50121), (163, 50172), (233, 50436), (240, 50475), (258, 50547), (261, 50556), (283, 50631), (308, 50697), (309, 50703), (329, 50757), (338, 50775), (347, 50826), (348, 50829), (355, 50859), (371, 50943), (372, 50952), (376, 50979), (378, 50994), (405, 51171), (407, 51180), (435, 51285), (469, 51366), (482, 51426), (502, 51501), (508, 51534), (512, 51540), (526, 51561), (530, 51570), (543, 51615), (560, 51684), (565, 51699), (582, 51768), (592, 51831), (600, 51864), (601, 51867), (612, 51918), (631, 51993), (666, 52116), (671, 52134), (691, 52212), (692, 52215), (695, 52227), (710, 52272), (721, 52293), (724, 52305), (733, 52335), (740, 52356), (801, 52428), (829, 52485), (860, 52584), (882, 52650), (906, 52740), (916, 52770), (917, 52773), (927, 52803), (938, 52848), (951, 52890), (961, 52920), (964, 52932), (969, 52947), (971, 52956),

Gene: Gizmo_215 Start: 115313, Stop: 118801, Start Num: 23

Candidate Starts for Gizmo_215:

(Start: 23 @115313 has 44 MA's), (Start: 25 @115319 has 6 MA's), (Start: 32 @115331 has 9 MA's), (38, 115340), (Start: 66 @115406 has 166 MA's), (83, 115481), (104, 115595), (112, 115619), (133, 115679), (162, 115790), (170, 115829), (177, 115853), (185, 115895), (211, 115994), (221, 116036), (222, 116042), (227, 116054), (237, 116117), (251, 116177), (252, 116180), (259, 116207), (272, 116249), (Start: 292 @116312 has 9 MA's), (351, 116468), (356, 116486), (359, 116501), (373, 116618), (379, 116657), (395, 116777), (403, 116819), (413, 116864), (415, 116873), (428, 116924), (441, 116966), (461, 117032), (464, 117041), (465, 117044), (467, 117050), (468, 117053), (469, 117062), (471, 117068), (474, 117083), (499, 117170), (530, 117275), (541, 117329), (556, 117416), (562, 117446), (572, 117476), (579, 117509), (581, 117518), (592, 117590), (596, 117620), (622, 117737), (632, 117782), (643, 117824), (680, 117968), (702, 118028), (738, 118130), (770, 118217), (772, 118220), (779, 118238), (791, 118274), (792, 118277), (813, 118337), (818, 118355), (851, 118451), (858, 118481), (864, 118499), (876, 118529), (911, 118622), (914, 118637), (939, 118718), (940, 118724), (944, 118736),

Gene: GlutenPhree_209 Start: 112303, Stop: 115773, Start Num: 32

Candidate Starts for GlutenPhree_209:

(Start: 23 @112285 has 44 MA's), (Start: 25 @112291 has 6 MA's), (Start: 32 @112303 has 9 MA's), (38, 112312), (Start: 66 @112378 has 166 MA's), (83, 112453), (104, 112567), (112, 112591), (133, 112651), (162, 112762), (170, 112801), (177, 112825), (185, 112867), (211, 112966), (221, 113008), (222, 113014), (227, 113026), (237, 113089), (251, 113149), (252, 113152), (259, 113179), (272, 113221), (Start: 292 @113284 has 9 MA's), (344, 113404), (351, 113440), (356, 113458), (359, 113473), (373, 113590), (379, 113629), (395, 113749), (403, 113791), (413, 113836), (415, 113845), (428, 113896), (441, 113938), (461, 114004), (464, 114013), (465, 114016), (467, 114022), (468, 114025), (469, 114034), (471, 114040), (474, 114055), (499, 114142), (530, 114247), (541, 114301), (556, 114388), (562, 114418), (572, 114448), (579, 114481), (581, 114490), (592, 114562), (596, 114592), (622, 114709), (632, 114754), (643, 114796), (680, 114940), (702, 115000), (738, 115102), (770, 115189), (772, 115192), (779, 115210), (791, 115246), (792, 115249), (813, 115309), (818, 115327), (851, 115423), (858, 115453), (864, 115471), (876, 115501), (911, 115594), (914, 115609), (939, 115690), (940, 115696), (944, 115708),

Gene: Goby_55 Start: 41781, Stop: 38299, Start Num: 66

Candidate Starts for Goby_55:

(Start: 66 @41781 has 166 MA's), (73, 41766), (74, 41760), (Start: 81 @41715 has 1 MA's), (83, 41706), (91, 41664), (108, 41571), (126, 41502), (143, 41433), (156, 41379), (174, 41307), (182, 41271), (198, 41211), (226, 41133), (255, 40986), (270, 40947), (277, 40920), (282, 40902), (Start: 290 @40881 has 6 MA's), (295, 40866), (347, 40746), (350, 40734), (380, 40548), (381, 40542), (388, 40497), (404, 40413), (407, 40395), (422, 40338), (423, 40335), (426, 40323), (469, 40185), (471, 40179), (474, 40164), (476, 40158), (482, 40125), (504, 40047), (514, 40014), (558, 39873), (580, 39792), (581, 39786), (592, 39717), (602, 39654), (608, 39633), (618, 39588), (630, 39549), (645, 39492), (647, 39483), (675, 39375), (681, 39354), (684, 39333), (697, 39303), (706, 39276), (731, 39210), (733, 39201), (737, 39189), (765, 39102), (776, 39078), (816, 38934), (833, 38886), (857, 38802), (866, 38775), (905, 38637), (908, 38628), (914, 38601), (928, 38553), (929, 38547), (934, 38526), (936, 38520), (968, 38415), (976, 38388), (978, 38376), (985, 38313),

Gene: Godpower_56 Start: 41758, Stop: 38279, Start Num: 66

Candidate Starts for Godpower_56:

(Start: 32 @41827 has 9 MA's), (Start: 66 @41758 has 166 MA's), (Start: 81 @41695 has 1 MA's), (83, 41686), (91, 41644), (108, 41551), (126, 41482), (143, 41413), (156, 41359), (174, 41287), (182, 41251), (198, 41191), (226, 41113), (255, 40966), (270, 40927), (277, 40900), (282, 40882), (Start: 290 @40861 has 6 MA's), (295, 40846), (347, 40726), (350, 40714), (380, 40528), (381, 40522), (388, 40477), (404, 40393), (407, 40375), (422, 40318), (423, 40315), (426, 40303), (469, 40165), (471,

40159), (474, 40144), (476, 40138), (482, 40105), (504, 40027), (514, 39994), (558, 39853), (580, 39772), (581, 39766), (592, 39697), (602, 39634), (608, 39613), (618, 39568), (630, 39529), (645, 39472), (647, 39463), (675, 39355), (681, 39334), (684, 39313), (697, 39283), (706, 39256), (731, 39190), (733, 39181), (737, 39169), (765, 39082), (776, 39058), (833, 38866), (857, 38782), (866, 38755), (905, 38617), (908, 38608), (914, 38581), (928, 38533), (929, 38527), (934, 38506), (936, 38500), (968, 38395), (978, 38356), (979, 38350), (985, 38293),

Gene: Grasshills_217 Start: 115911, Stop: 119381, Start Num: 32

Candidate Starts for Grasshills_217:

(10, 115818), (Start: 23 @115893 has 44 MA's), (Start: 25 @115899 has 6 MA's), (Start: 32 @115911 has 9 MA's), (38, 115920), (Start: 66 @115986 has 166 MA's), (83, 116061), (104, 116175), (112, 116199), (133, 116259), (162, 116370), (170, 116409), (177, 116433), (185, 116475), (211, 116574), (221, 116616), (222, 116622), (227, 116634), (237, 116697), (251, 116757), (252, 116760), (259, 116787), (272, 116829), (Start: 292 @116892 has 9 MA's), (351, 117048), (356, 117066), (359, 117081), (373, 117198), (379, 117237), (395, 117357), (403, 117399), (413, 117444), (415, 117453), (428, 117504), (441, 117546), (461, 117612), (464, 117621), (465, 117624), (467, 117630), (468, 117633), (469, 117642), (471, 117648), (474, 117663), (499, 117750), (530, 117855), (541, 117909), (556, 117996), (562, 118026), (572, 118056), (579, 118089), (581, 118098), (592, 118170), (596, 118200), (622, 118317), (632, 118362), (643, 118404), (680, 118548), (702, 118608), (738, 118710), (770, 118797), (772, 118800), (779, 118818), (791, 118854), (792, 118857), (813, 118917), (818, 118935), (851, 119031), (858, 119061), (864, 119079), (876, 119109), (911, 119202), (914, 119217), (939, 119298), (940, 119304), (944, 119316),

Gene: Gray_98 Start: 70297, Stop: 73110, Start Num: 54

Candidate Starts for Gray_98:

(Start: 46 @70282 has 1 MA's), (Start: 51 @70294 has 2 MA's), (Start: 54 @70297 has 8 MA's), (83, 70390), (92, 70450), (131, 70600), (132, 70603), (134, 70609), (145, 70651), (158, 70708), (163, 70738), (164, 70741), (180, 70804), (185, 70825), (186, 70828), (193, 70855), (222, 70972), (226, 70981), (235, 71038), (237, 71047), (273, 71179), (347, 71344), (351, 71362), (355, 71377), (357, 71383), (359, 71395), (367, 71422), (368, 71425), (375, 71485), (376, 71494), (377, 71497), (379, 71509), (382, 71554), (394, 71623), (397, 71647), (432, 71803), (438, 71821), (443, 71845), (448, 71863), (475, 71959), (483, 72001), (487, 72007), (499, 72043), (500, 72052), (503, 72070), (504, 72076), (508, 72100), (512, 72106), (514, 72109), (521, 72127), (522, 72130), (554, 72223), (564, 72268), (566, 72274), (574, 72298), (575, 72301), (577, 72310), (578, 72316), (580, 72328), (600, 72445), (602, 72463), (603, 72466), (606, 72475), (635, 72589), (639, 72604), (675, 72751), (679, 72763), (681, 72769), (692, 72802), (703, 72835), (708, 72853), (712, 72865), (714, 72874), (750, 72988), (754, 73000), (762, 73015), (787, 73090), (791, 73099),

Gene: Greely_198 Start: 110173, Stop: 113589, Start Num: 59

Candidate Starts for Greely_198:

(Start: 59 @110173 has 3 MA's), (96, 110335), (113, 110398), (161, 110563), (185, 110671), (214, 110791), (221, 110824), (222, 110830), (235, 110896), (237, 110905), (251, 110962), (252, 110965), (256, 110983), (259, 110992), (277, 111049), (283, 111070), (Start: 292 @111094 has 9 MA's), (318, 111139), (356, 111268), (359, 111283), (391, 111532), (395, 111559), (415, 111655), (437, 111721), (451, 111778), (464, 111823), (465, 111826), (471, 111850), (476, 111871), (499, 111955), (500, 111964), (504, 111988), (544, 112123), (576, 112270), (579, 112291), (581, 112300), (584, 112324), (590, 112369), (596, 112396), (603, 112426), (624, 112513), (648, 112615), (663, 112657), (666, 112669), (669, 112678), (681, 112738), (690, 112780), (702, 112816), (710, 112843), (737, 112915), (772, 113008), (792, 113065), (807, 113098), (845, 113221), (858, 113272), (864, 113290), (877, 113326), (889, 113356), (894, 113374), (910, 113410), (914, 113425), (932, 113491), (933, 113494), (940, 113512), (944, 113524), (964, 113581),

Gene: Greenbelt_76 Start: 35561, Stop: 32364, Start Num: 72

Candidate Starts for Greenbelt_76:

(Start: 37 @35642 has 2 MA's), (58, 35579), (Start: 72 @35561 has 72 MA's), (78, 35519), (Start: 89 @35465 has 8 MA's), (97, 35411), (114, 35342), (117, 35333), (128, 35294), (137, 35261), (157, 35171), (170, 35117), (197, 35048), (241, 34832), (Start: 287 @34661 has 29 MA's), (310, 34610), (316, 34595), (335, 34544), (349, 34484), (356, 34454), (371, 34373), (376, 34337), (377, 34334), (378, 34322), (379, 34319), (391, 34226), (407, 34136), (434, 34037), (442, 34010), (474, 33929), (476, 33923), (481, 33896), (508, 33773), (512, 33767), (530, 33737), (538, 33707), (559, 33626), (560, 33623), (661, 33218), (663, 33206), (666, 33194), (688, 33083), (702, 33041), (825, 32843), (827, 32837), (829, 32831), (850, 32765), (879, 32672), (882, 32666), (916, 32555), (919, 32543), (927, 32522), (930, 32498), (949, 32444), (951, 32438), (962, 32402), (966, 32387),

Gene: Gretellyn_79 Start: 52344, Stop: 55685, Start Num: 69

Candidate Starts for Gretellyn_79:

(41, 52296), (Start: 69 @52344 has 20 MA's), (Start: 81 @52404 has 1 MA's), (Start: 89 @52440 has 8 MA's), (94, 52485), (104, 52527), (173, 52788), (204, 52890), (213, 52923), (233, 53019), (304, 53289), (Start: 307 @53298 has 8 MA's), (338, 53406), (346, 53451), (356, 53493), (378, 53625), (379, 53628), (380, 53658), (383, 53679), (395, 53748), (405, 53802), (430, 53901), (435, 53916), (455, 53958), (502, 54132), (508, 54165), (521, 54183), (530, 54201), (543, 54246), (544, 54249), (571, 54345), (580, 54387), (582, 54399), (587, 54435), (629, 54615), (640, 54657), (648, 54693), (666, 54747), (671, 54765), (692, 54861), (695, 54873), (795, 55068), (829, 55152), (853, 55233), (862, 55257), (867, 55272), (879, 55308), (882, 55320), (884, 55326), (885, 55329), (893, 55356), (903, 55401), (935, 55509), (950, 55554), (958, 55578), (969, 55614),

Gene: GrootJr_62 Start: 48486, Stop: 45175, Start Num: 72

Candidate Starts for GrootJr_62:

(3, 48729), (Start: 72 @48486 has 72 MA's), (84, 48414), (Start: 89 @48390 has 8 MA's), (94, 48345), (124, 48237), (127, 48228), (160, 48105), (204, 47946), (206, 47940), (212, 47916), (234, 47808), (240, 47778), (256, 47709), (311, 47571), (317, 47553), (356, 47400), (365, 47358), (376, 47280), (378, 47265), (399, 47127), (460, 46929), (474, 46875), (475, 46872), (491, 46812), (502, 46761), (530, 46692), (543, 46647), (593, 46407), (602, 46365), (603, 46362), (605, 46356), (610, 46338), (634, 46242), (648, 46188), (688, 46044), (692, 46035), (722, 45960), (744, 45885), (759, 45831), (779, 45789), (795, 45741), (824, 45660), (831, 45639), (857, 45549), (871, 45519), (878, 45495), (879, 45492), (930, 45309), (951, 45252),

Gene: Grungle_193 Start: 110325, Stop: 113720, Start Num: 66

Candidate Starts for Grungle_193:

(Start: 18 @110202 has 5 MA's), (Start: 23 @110232 has 44 MA's), (Start: 25 @110238 has 6 MA's), (Start: 32 @110250 has 9 MA's), (38, 110259), (Start: 66 @110325 has 166 MA's), (83, 110400), (104, 110514), (112, 110538), (133, 110598), (162, 110709), (170, 110748), (177, 110772), (185, 110814), (211, 110913), (221, 110955), (222, 110961), (227, 110973), (237, 111036), (251, 111096), (252, 111099), (259, 111126), (272, 111168), (Start: 292 @111231 has 9 MA's), (344, 111351), (351, 111387), (356, 111405), (359, 111420), (373, 111537), (379, 111576), (395, 111696), (403, 111738), (413, 111783), (415, 111792), (428, 111843), (441, 111885), (461, 111951), (464, 111960), (465, 111963), (467, 111969), (468, 111972), (469, 111981), (471, 111987), (474, 112002), (499, 112089), (530, 112194), (541, 112248), (556, 112335), (562, 112365), (572, 112395), (579, 112428), (581, 112437), (592, 112509), (596, 112539), (622, 112656), (627, 112674), (632, 112701), (643, 112743), (680, 112887), (702, 112947), (738, 113049), (770, 113136), (772, 113139), (779, 113157), (791, 113193), (792, 113196), (813, 113256), (818, 113274), (851, 113370), (858, 113400), (864, 113418), (876, 113448), (911, 113541), (914, 113556), (939, 113637), (940, 113643), (944, 113655),

Gene: Gumball_66 Start: 50219, Stop: 53521, Start Num: 26

Candidate Starts for Gumball_66:

(Start: 26 @50219 has 20 MA's), (Start: 61 @50306 has 1 MA's), (65, 50312), (Start: 72 @50321 has 72 MA's), (Start: 89 @50417 has 8 MA's), (127, 50573), (151, 50660), (152, 50663), (163, 50714), (233, 50978), (240, 51017), (258, 51089), (261, 51098), (283, 51173), (308, 51239), (309, 51245), (329, 51299), (338, 51317), (347, 51368), (348, 51371), (355, 51401), (371, 51485), (372, 51494), (376, 51521), (378, 51536), (405, 51713), (407, 51722), (435, 51827), (469, 51908), (482, 51968), (502, 52043), (508, 52076), (512, 52082), (526, 52103), (530, 52112), (543, 52157), (560, 52226), (565, 52241), (582, 52310), (600, 52406), (601, 52409), (612, 52460), (631, 52535), (666, 52658), (671, 52676), (691, 52754), (692, 52757), (695, 52769), (710, 52814), (721, 52835), (724, 52847), (733, 52877), (740, 52898), (801, 52970), (829, 53027), (860, 53126), (882, 53192), (906, 53282), (916, 53312), (917, 53315), (927, 53345), (938, 53390), (951, 53432), (961, 53462), (964, 53474), (969, 53489), (971, 53498),

Gene: Guwapp_204 Start: 111029, Stop: 114517, Start Num: 23

Candidate Starts for Guwapp_204:

(Start: 23 @111029 has 44 MA's), (Start: 25 @111035 has 6 MA's), (Start: 32 @111047 has 9 MA's), (38, 111056), (Start: 66 @111122 has 166 MA's), (83, 111197), (104, 111311), (112, 111335), (133, 111395), (162, 111506), (170, 111545), (177, 111569), (185, 111611), (211, 111710), (221, 111752), (222, 111758), (227, 111770), (237, 111833), (251, 111893), (252, 111896), (259, 111923), (272, 111965), (Start: 292 @112028 has 9 MA's), (351, 112184), (356, 112202), (359, 112217), (373, 112334), (379, 112373), (395, 112493), (403, 112535), (413, 112580), (415, 112589), (428, 112640), (441, 112682), (461, 112748), (464, 112757), (465, 112760), (467, 112766), (468, 112769), (469, 112778), (471, 112784), (474, 112799), (499, 112886), (530, 112991), (541, 113045), (556, 113132), (562, 113162), (572, 113192), (579, 113225), (581, 113234), (592, 113306), (596, 113336), (622, 113453), (632, 113498), (643, 113540), (680, 113684), (702, 113744), (738, 113846), (770, 113933), (772, 113936), (779, 113954), (791, 113990), (792, 113993), (813, 114053), (818, 114071), (851, 114167), (858, 114197), (864, 114215), (876, 114245), (911, 114338), (914, 114353), (939, 114434), (940, 114440), (944, 114452),

Gene: GuyFagieri_58 Start: 45944, Stop: 42528, Start Num: 72

Candidate Starts for GuyFagieri_58:

(Start: 72 @45944 has 72 MA's), (86, 45863), (Start: 89 @45848 has 8 MA's), (108, 45740), (110, 45734), (127, 45686), (160, 45563), (217, 45353), (220, 45338), (222, 45329), (229, 45305), (233, 45275), (240, 45236), (329, 44942), (359, 44810), (360, 44807), (361, 44792), (365, 44783), (376, 44705), (378, 44690), (381, 44651), (388, 44612), (405, 44519), (417, 44468), (419, 44462), (428, 44423), (471, 44318), (474, 44303), (475, 44300), (502, 44186), (503, 44183), (508, 44153), (521, 44135), (522, 44132), (525, 44126), (527, 44123), (536, 44090), (543, 44069), (582, 43901), (592, 43835), (594, 43823), (603, 43781), (605, 43775), (610, 43757), (634, 43661), (640, 43643), (648, 43607), (663, 43565), (671, 43535), (676, 43499), (692, 43442), (695, 43430), (718, 43367), (737, 43310), (750, 43241), (767, 43193), (771, 43184), (780, 43157), (781, 43154), (802, 43094), (846, 42947), (874, 42866), (878, 42851), (879, 42848), (892, 42809), (919, 42710), (922, 42701), (927, 42689), (928, 42683), (929, 42677), (930, 42665), (948, 42614), (949, 42611), (962, 42569),

Gene: Hager_58 Start: 40653, Stop: 42950, Start Num: 290

Candidate Starts for Hager_58:

(Start: 290 @40653 has 6 MA's), (324, 40731), (348, 40824), (356, 40857), (358, 40869), (361, 40890), (364, 40896), (375, 40965), (378, 40989), (381, 41028), (391, 41085), (405, 41166), (435, 41280), (440, 41292), (475, 41385), (490, 41451), (493, 41463), (496, 41469), (503, 41511), (508, 41541), (512, 41547), (526, 41568), (530, 41577), (538, 41607), (552, 41649), (558, 41682), (560, 41691), (571, 41721), (608, 41910), (614, 41934), (663, 42108), (666, 42120), (671, 42138), (688, 42222), (692, 42231), (702, 42264), (721, 42309), (742, 42378), (840, 42516), (850, 42546), (857, 42579), (868, 42609), (892, 42681), (929, 42804), (938, 42837), (953, 42882), (966, 42927), (969, 42933),

Gene: Halldule_202 Start: 111507, Stop: 114902, Start Num: 66

Candidate Starts for Halldule_202:

(Start: 18 @111384 has 5 MA's), (Start: 23 @111414 has 44 MA's), (Start: 25 @111420 has 6 MA's), (Start: 32 @111432 has 9 MA's), (38, 111441), (Start: 66 @111507 has 166 MA's), (83, 111582), (104, 111696), (112, 111720), (133, 111780), (162, 111891), (170, 111930), (177, 111954), (185, 111996), (211, 112095), (221, 112137), (222, 112143), (227, 112155), (237, 112218), (251, 112278), (252, 112281), (259, 112308), (272, 112350), (Start: 292 @112413 has 9 MA's), (344, 112533), (351, 112569), (356, 112587), (359, 112602), (373, 112719), (379, 112758), (395, 112878), (403, 112920), (413, 112965), (415, 112974), (428, 113025), (441, 113067), (461, 113133), (464, 113142), (465, 113145), (467, 113151), (468, 113154), (469, 113163), (471, 113169), (474, 113184), (499, 113271), (530, 113376), (541, 113430), (556, 113517), (562, 113547), (572, 113577), (579, 113610), (581, 113619), (592, 113691), (596, 113721), (622, 113838), (632, 113883), (643, 113925), (680, 114069), (702, 114129), (738, 114231), (770, 114318), (772, 114321), (779, 114339), (791, 114375), (792, 114378), (813, 114438), (818, 114456), (851, 114552), (858, 114582), (864, 114600), (876, 114630), (911, 114723), (914, 114738), (939, 114819), (940, 114825), (944, 114837),

Gene: Hanem_97 Start: 70036, Stop: 72849, Start Num: 54

Candidate Starts for Hanem_97:

(Start: 46 @70021 has 1 MA's), (Start: 51 @70033 has 2 MA's), (Start: 54 @70036 has 8 MA's), (83, 70129), (92, 70189), (131, 70339), (132, 70342), (134, 70348), (158, 70447), (163, 70477), (164, 70480), (180, 70543), (185, 70564), (186, 70567), (193, 70594), (222, 70711), (226, 70720), (235, 70777), (237, 70786), (253, 70852), (273, 70918), (347, 71083), (351, 71101), (355, 71116), (357, 71122), (359, 71134), (367, 71161), (368, 71164), (375, 71224), (376, 71233), (377, 71236), (379, 71248), (382, 71293), (394, 71362), (397, 71386), (432, 71542), (438, 71560), (443, 71584), (448, 71602), (475, 71698), (483, 71740), (487, 71746), (499, 71782), (500, 71791), (503, 71809), (504, 71815), (508, 71839), (512, 71845), (514, 71848), (521, 71866), (522, 71869), (554, 71962), (564, 72007), (566, 72013), (574, 72037), (575, 72040), (577, 72049), (578, 72055), (580, 72067), (600, 72184), (602, 72202), (603, 72205), (606, 72214), (635, 72328), (639, 72343), (675, 72490), (679, 72502), (681, 72508), (692, 72541), (703, 72574), (708, 72592), (712, 72604), (714, 72613), (750, 72727), (754, 72739), (762, 72754), (787, 72829), (791, 72838),

Gene: HangryHippo_80 Start: 59162, Stop: 62446, Start Num: 68

Candidate Starts for HangryHippo_80:

(Start: 68 @59162 has 63 MA's), (78, 59207), (84, 59237), (88, 59255), (Start: 89 @59261 has 8 MA's), (157, 59540), (182, 59642), (214, 59720), (235, 59825), (249, 59888), (250, 59894), (262, 59933), (298, 60050), (330, 60134), (358, 60260), (367, 60290), (371, 60329), (372, 60338), (403, 60536), (471, 60716), (497, 60821), (498, 60827), (499, 60833), (521, 60917), (534, 60947), (548, 60989), (554, 61016), (560, 61049), (564, 61061), (580, 61124), (592, 61196), (603, 61250), (606, 61259), (608, 61268), (610, 61277), (612, 61283), (675, 61526), (698, 61595), (702, 61607), (735, 61712), (795, 61907), (807, 61940), (822, 61991), (834, 62030), (835, 62036), (855, 62102), (870, 62150), (881, 62186), (895, 62231), (896, 62240), (911, 62282), (922, 62327), (923, 62330), (928, 62345),

Gene: Haunter_57 Start: 40472, Stop: 42772, Start Num: 287

Candidate Starts for Haunter_57:

(Start: 287 @40472 has 29 MA's), (Start: 290 @40478 has 6 MA's), (324, 40553), (344, 40625), (348, 40646), (356, 40679), (358, 40691), (359, 40694), (361, 40712), (364, 40718), (375, 40787), (378, 40811), (379, 40814), (381, 40850), (388, 40895), (391, 40907), (405, 40988), (435, 41102), (440, 41114), (471, 41189), (475, 41207), (493, 41285), (496, 41291), (498, 41300), (503, 41333), (508, 41363), (512, 41369), (526, 41390), (530, 41399), (538, 41429), (558, 41504), (560, 41513), (570, 41537), (571, 41543), (572, 41549), (575, 41558), (592, 41660), (608, 41732), (614, 41756), (635, 41840), (663, 41930), (666, 41942), (671, 41960), (687, 42038), (688, 42044), (692, 42053), (702, 42086), (729, 42158), (840, 42338), (850, 42368), (868, 42431), (892, 42503), (918, 42587), (927, 42614), (929, 42626), (938, 42659), (953, 42704), (966, 42749), (969, 42755),

Gene: Hawkeye_75 Start: 50526, Stop: 53972, Start Num: 26

Candidate Starts for Hawkeye_75:

(Start: 26 @50526 has 20 MA's), (39, 50559), (48, 50589), (Start: 72 @50625 has 72 MA's), (73, 50634), (84, 50697), (Start: 89 @50721 has 8 MA's), (90, 50730), (107, 50823), (124, 50868), (127, 50877), (148, 50952), (152, 50967), (168, 51033), (233, 51282), (240, 51321), (295, 51513), (338, 51621), (347, 51672), (348, 51675), (356, 51708), (376, 51825), (378, 51840), (435, 52131), (469, 52212), (482, 52272), (502, 52347), (508, 52380), (512, 52386), (530, 52416), (565, 52545), (577, 52584), (582, 52614), (600, 52710), (601, 52713), (602, 52728), (612, 52764), (631, 52839), (666, 52962), (667, 52965), (671, 52980), (691, 53058), (692, 53061), (695, 53073), (763, 53280), (764, 53283), (794, 53364), (829, 53478), (849, 53541), (862, 53583), (882, 53643), (906, 53733), (917, 53766), (927, 53796), (938, 53841), (948, 53874), (949, 53877), (964, 53925), (977, 53967),

Gene: Helpful_70 Start: 50059, Stop: 53361, Start Num: 26

Candidate Starts for Helpful_70:

(Start: 26 @50059 has 20 MA's), (Start: 61 @50146 has 1 MA's), (65, 50152), (Start: 72 @50161 has 72 MA's), (Start: 89 @50257 has 8 MA's), (127, 50413), (151, 50500), (152, 50503), (163, 50554), (233, 50818), (240, 50857), (258, 50929), (261, 50938), (283, 51013), (308, 51079), (309, 51085), (329, 51139), (338, 51157), (347, 51208), (348, 51211), (355, 51241), (371, 51325), (372, 51334), (376, 51361), (378, 51376), (405, 51553), (407, 51562), (411, 51577), (435, 51667), (469, 51748), (482, 51808), (502, 51883), (508, 51916), (512, 51922), (526, 51943), (530, 51952), (543, 51997), (560, 52066), (565, 52081), (582, 52150), (592, 52213), (600, 52246), (601, 52249), (612, 52300), (631, 52375), (666, 52498), (671, 52516), (691, 52594), (692, 52597), (695, 52609), (710, 52654), (721, 52675), (724, 52687), (733, 52717), (740, 52738), (801, 52810), (829, 52867), (860, 52966), (882, 53032), (906, 53122), (916, 53152), (917, 53155), (927, 53185), (938, 53230), (951, 53272), (961, 53302), (964, 53314), (969, 53329), (971, 53338),

Gene: Hiddenleaf_58 Start: 40699, Stop: 43002, Start Num: 287

Candidate Starts for Hiddenleaf_58:

(Start: 287 @40699 has 29 MA's), (Start: 290 @40705 has 6 MA's), (324, 40783), (344, 40855), (348, 40876), (356, 40909), (358, 40921), (359, 40924), (361, 40942), (364, 40948), (375, 41017), (378, 41041), (381, 41080), (388, 41125), (391, 41137), (405, 41218), (435, 41332), (440, 41344), (471, 41419), (475, 41437), (493, 41515), (496, 41521), (498, 41530), (503, 41563), (508, 41593), (512, 41599), (526, 41620), (530, 41629), (538, 41659), (558, 41734), (560, 41743), (564, 41755), (571, 41773), (575, 41788), (592, 41890), (608, 41962), (614, 41986), (635, 42070), (663, 42160), (666, 42172), (671, 42190), (687, 42268), (688, 42274), (692, 42283), (702, 42316), (729, 42388), (840, 42568), (850, 42598), (868, 42661), (892, 42733), (929, 42856), (938, 42889), (953, 42934), (966, 42979), (969, 42985),

Gene: Hippo_54 Start: 42468, Stop: 38983, Start Num: 66

Candidate Starts for Hippo_54:

(Start: 32 @42537 has 9 MA's), (Start: 66 @42468 has 166 MA's), (Start: 81 @42405 has 1 MA's), (83, 42396), (91, 42354), (108, 42261), (126, 42192), (143, 42123), (156, 42069), (174, 41997), (182, 41961), (198, 41901), (255, 41676), (270, 41637), (277, 41610), (282, 41592), (Start: 290 @41571 has 6 MA's), (295, 41556), (321, 41514), (347, 41436), (350, 41424), (380, 41238), (381, 41232), (388, 41187), (404, 41103), (407, 41085), (422, 41028), (423, 41025), (426, 41013), (469, 40875), (471, 40869), (474, 40854), (476, 40848), (482, 40815), (504, 40737), (514, 40704), (529, 40668), (558, 40563), (580, 40482), (581, 40476), (592, 40407), (602, 40344), (608, 40323), (618, 40278), (645, 40182), (647, 40173), (649, 40167), (675, 40065), (678, 40056), (681, 40044), (684, 40023), (697, 39993), (706, 39966), (731, 39900), (733, 39891), (737, 39879), (765, 39792), (816, 39624), (833, 39576), (866, 39465), (905, 39327), (908, 39318), (914, 39291), (928, 39243), (936, 39210), (944, 39183), (976, 39078), (978, 39066),

Gene: HubbaBubba_55 Start: 44123, Stop: 40872, Start Num: 72

Candidate Starts for HubbaBubba_55:

(5, 44351), (Start: 72 @44123 has 72 MA's), (86, 44042), (Start: 89 @44027 has 8 MA's), (94, 43982), (124, 43874), (127, 43865), (169, 43700), (206, 43577), (218, 43526), (226, 43499), (234, 43445), (235, 43442), (240, 43415), (Start: 292 @43232 has 9 MA's), (311, 43208), (343, 43100), (359, 43022), (365, 42995), (376, 42917), (378, 42902), (399, 42764), (460, 42566), (462, 42560), (469, 42533), (502, 42398), (508, 42365), (530, 42329), (543, 42284), (548, 42272), (561, 42209), (593, 42044), (594, 42041), (602, 42002), (603, 41999), (605, 41993), (607, 41984), (610, 41975), (634, 41879), (640, 41861), (648, 41825), (708, 41621), (759, 41525), (795, 41441), (799, 41432), (846, 41291), (878, 41195), (879, 41192), (930, 41009),

Gene: HyRo_197 Start: 112631, Stop: 116026, Start Num: 66

Candidate Starts for HyRo_197:

(Start: 23 @112538 has 44 MA's), (Start: 25 @112544 has 6 MA's), (Start: 32 @112556 has 9 MA's), (38, 112565), (Start: 66 @112631 has 166 MA's), (83, 112706), (104, 112820), (112, 112844), (133, 112904), (156, 112997), (162, 113015), (170, 113054), (177, 113078), (185, 113120), (211, 113219), (221, 113261), (222, 113267), (227, 113279), (237, 113342), (251, 113402), (252, 113405), (259, 113432), (272, 113474), (Start: 292 @113537 has 9 MA's), (351, 113693), (356, 113711), (359, 113726), (373, 113843), (379, 113882), (395, 114002), (403, 114044), (413, 114089), (415, 114098), (428, 114149), (441, 114191), (461, 114257), (464, 114266), (465, 114269), (467, 114275), (468, 114278), (469, 114287), (471, 114293), (474, 114308), (499, 114395), (530, 114500), (541, 114554), (556, 114641), (562, 114671), (572, 114701), (579, 114734), (581, 114743), (592, 114815), (596, 114845), (622, 114962), (632, 115007), (643, 115049), (680, 115193), (702, 115253), (738, 115355), (770, 115442), (772, 115445), (779, 115463), (791, 115499), (792, 115502), (813, 115562), (818, 115580), (851, 115676), (858, 115706), (864, 115724), (876, 115754), (911, 115847), (914, 115862), (939, 115943), (940, 115949), (944, 115961),

Gene: Hydra_54 Start: 40888, Stop: 37409, Start Num: 66

Candidate Starts for Hydra_54:

(Start: 32 @40957 has 9 MA's), (Start: 66 @40888 has 166 MA's), (83, 40816), (Start: 89 @40789 has 8 MA's), (91, 40774), (105, 40699), (126, 40612), (132, 40585), (134, 40579), (156, 40489), (161, 40474), (173, 40420), (174, 40417), (198, 40321), (226, 40243), (255, 40096), (270, 40057), (282, 40012), (Start: 290 @39991 has 6 MA's), (295, 39976), (321, 39934), (326, 39922), (347, 39856), (350, 39844), (365, 39781), (381, 39652), (382, 39643), (388, 39607), (404, 39523), (407, 39505), (422, 39448), (423, 39445), (426, 39433), (469, 39295), (471, 39289), (474, 39274), (476, 39268), (482, 39235), (504, 39157), (514, 39124), (558, 38983), (576, 38926), (580, 38902), (581, 38896), (592, 38827), (602, 38764), (618, 38698), (623, 38677), (630, 38659), (645, 38602), (647, 38593), (675, 38485), (678, 38476), (681, 38464), (684, 38443), (697, 38413), (706, 38386), (731, 38320), (733, 38311), (737, 38299), (765, 38212), (776, 38188), (792, 38140), (833, 37996), (855, 37921), (905, 37747), (914, 37711), (928, 37663), (936, 37630),

Gene: I3_219 Start: 115274, Stop: 118762, Start Num: 23

Candidate Starts for I3_219:

(Start: 23 @115274 has 44 MA's), (Start: 25 @115280 has 6 MA's), (Start: 32 @115292 has 9 MA's), (38, 115301), (Start: 66 @115367 has 166 MA's), (83, 115442), (104, 115556), (112, 115580), (133, 115640), (162, 115751), (170, 115790), (177, 115814), (185, 115856), (211, 115955), (218, 115985), (221, 115997), (222, 116003), (227, 116015), (237, 116078), (251, 116138), (252, 116141), (259, 116168), (272, 116210), (Start: 292 @116273 has 9 MA's), (351, 116429), (356, 116447), (359, 116462), (373, 116579), (379, 116618), (395, 116738), (403, 116780), (413, 116825), (415, 116834), (428, 116885), (441, 116927), (461, 116993), (464, 117002), (465, 117005), (467, 117011), (468, 117014), (469, 117023), (471, 117029), (474, 117044), (499, 117131), (530, 117236), (541, 117290), (556, 117377), (562, 117407), (572, 117437), (579, 117470), (581, 117479), (592, 117551), (596, 117581), (622, 117698), (632, 117743), (643, 117785), (680, 117929), (702, 117989), (738, 118091), (770, 118178), (772, 118181), (779, 118199), (791, 118235), (792, 118238), (813, 118298), (818,

118316), (851, 118412), (858, 118442), (864, 118460), (876, 118490), (911, 118583), (914, 118598), (939, 118679), (940, 118685), (944, 118697),

Gene: IDyn_59 Start: 45555, Stop: 42304, Start Num: 72

Candidate Starts for IDyn_59:

(5, 45774), (Start: 72 @45555 has 72 MA's), (86, 45474), (Start: 89 @45459 has 8 MA's), (94, 45414), (124, 45306), (127, 45297), (206, 45009), (218, 44958), (226, 44931), (234, 44877), (240, 44847), (Start: 292 @44664 has 9 MA's), (311, 44640), (359, 44454), (365, 44427), (376, 44349), (378, 44334), (399, 44196), (419, 44103), (460, 43998), (462, 43992), (469, 43965), (502, 43830), (508, 43797), (530, 43761), (543, 43716), (548, 43704), (561, 43641), (593, 43476), (594, 43473), (602, 43434), (603, 43431), (605, 43425), (607, 43416), (610, 43407), (634, 43311), (640, 43293), (648, 43257), (691, 43107), (708, 43053), (759, 42957), (795, 42873), (799, 42864), (817, 42813), (846, 42723), (878, 42627), (879, 42624), (930, 42441), (971, 42318),

Gene: IchabodCrane_79 Start: 58144, Stop: 61464, Start Num: 67

Candidate Starts for IchabodCrane_79:

(Start: 67 @58144 has 30 MA's), (79, 58195), (84, 58216), (Start: 89 @58240 has 8 MA's), (103, 58321), (157, 58519), (214, 58699), (226, 58747), (227, 58750), (235, 58804), (236, 58807), (245, 58855), (249, 58873), (251, 58882), (262, 58918), (295, 59026), (298, 59035), (358, 59245), (371, 59314), (395, 59479), (411, 59557), (428, 59626), (469, 59719), (499, 59842), (521, 59926), (543, 59989), (548, 59998), (592, 60202), (603, 60256), (606, 60265), (610, 60283), (612, 60289), (666, 60481), (672, 60505), (675, 60532), (706, 60640), (760, 60829), (790, 60907), (806, 60949), (809, 60967), (822, 61009), (834, 61048), (835, 61054), (845, 61081), (855, 61120), (870, 61168), (895, 61249), (899, 61270), (907, 61297), (911, 61300), (914, 61315), (923, 61348), (942, 61417),

Gene: IkeLoa_201 Start: 112032, Stop: 115427, Start Num: 66

Candidate Starts for IkeLoa_201:

(10, 111864), (Start: 23 @111939 has 44 MA's), (Start: 25 @111945 has 6 MA's), (Start: 32 @111957 has 9 MA's), (38, 111966), (Start: 66 @112032 has 166 MA's), (83, 112107), (104, 112221), (112, 112245), (133, 112305), (162, 112416), (170, 112455), (177, 112479), (185, 112521), (211, 112620), (221, 112662), (222, 112668), (227, 112680), (237, 112743), (251, 112803), (252, 112806), (259, 112833), (272, 112875), (Start: 292 @112938 has 9 MA's), (351, 113094), (356, 113112), (359, 113127), (373, 113244), (379, 113283), (395, 113403), (403, 113445), (413, 113490), (415, 113499), (428, 113550), (441, 113592), (461, 113658), (464, 113667), (465, 113670), (467, 113676), (468, 113679), (469, 113688), (471, 113694), (474, 113709), (499, 113796), (530, 113901), (541, 113955), (556, 114042), (562, 114072), (572, 114102), (579, 114135), (581, 114144), (592, 114216), (596, 114246), (622, 114363), (632, 114408), (643, 114450), (680, 114594), (702, 114654), (738, 114756), (770, 114843), (772, 114846), (779, 114864), (791, 114900), (792, 114903), (813, 114963), (818, 114981), (851, 115077), (858, 115107), (864, 115125), (876, 115155), (911, 115248), (914, 115263), (939, 115344), (940, 115350), (944, 115362),

Gene: Indigo_52 Start: 40232, Stop: 36753, Start Num: 66

Candidate Starts for Indigo_52:

(4, 40442), (Start: 66 @40232 has 166 MA's), (83, 40160), (Start: 89 @40133 has 8 MA's), (91, 40118), (126, 39956), (132, 39929), (134, 39923), (156, 39833), (161, 39818), (173, 39764), (174, 39761), (198, 39665), (226, 39587), (255, 39440), (270, 39401), (282, 39356), (Start: 290 @39335 has 6 MA's), (295, 39320), (321, 39278), (326, 39266), (347, 39200), (350, 39188), (365, 39125), (381, 38996), (382, 38987), (388, 38951), (404, 38867), (407, 38849), (422, 38792), (423, 38789), (426, 38777), (469, 38639), (471, 38633), (474, 38618), (476, 38612), (482, 38579), (504, 38501), (514, 38468), (558, 38327), (576, 38270), (580, 38246), (581, 38240), (592, 38171), (602, 38108), (618, 38042), (623, 38021), (630, 38003), (645, 37946), (647, 37937), (675, 37829), (678, 37820), (681, 37808), (684, 37787), (697, 37757), (706, 37730), (731, 37664), (733, 37655), (737, 37643), (765, 37556), (776, 37532), (792, 37484), (833, 37340), (855, 37265), (905, 37091), (914, 37055), (928, 37007),

(936, 36974),

Gene: Indlulamithi_76 Start: 52921, Stop: 56100, Start Num: 61

Candidate Starts for Indlulamithi_76:

(Start: 61 @52921 has 1 MA's), (Start: 72 @52936 has 72 MA's), (84, 53008), (Start: 89 @53032 has 8 MA's), (96, 53083), (102, 53110), (123, 53173), (127, 53188), (130, 53203), (152, 53278), (153, 53281), (168, 53344), (169, 53347), (178, 53377), (202, 53458), (261, 53713), (273, 53755), (332, 53905), (338, 53923), (344, 53956), (370, 54091), (371, 54094), (372, 54103), (376, 54130), (378, 54142), (418, 54373), (419, 54376), (442, 54454), (455, 54475), (474, 54535), (480, 54565), (502, 54649), (508, 54682), (524, 54709), (530, 54718), (533, 54724), (535, 54733), (538, 54748), (553, 54793), (557, 54817), (564, 54844), (571, 54862), (575, 54877), (604, 55033), (608, 55048), (616, 55081), (621, 55105), (648, 55204), (728, 55477), (827, 55609), (832, 55624), (839, 55648), (845, 55666), (846, 55669), (857, 55714), (912, 55888), (917, 55906), (927, 55936), (948, 56011), (949, 56014),

Gene: InigoMontoya_212 Start: 113041, Stop: 116436, Start Num: 66

Candidate Starts for InigoMontoya_212:

(Start: 23 @112948 has 44 MA's), (Start: 25 @112954 has 6 MA's), (Start: 32 @112966 has 9 MA's), (38, 112975), (Start: 66 @113041 has 166 MA's), (83, 113116), (104, 113230), (112, 113254), (133, 113314), (162, 113425), (170, 113464), (177, 113488), (185, 113530), (211, 113629), (221, 113671), (222, 113677), (227, 113689), (237, 113752), (251, 113812), (252, 113815), (259, 113842), (272, 113884), (Start: 292 @113947 has 9 MA's), (344, 114067), (351, 114103), (356, 114121), (359, 114136), (373, 114253), (379, 114292), (395, 114412), (403, 114454), (413, 114499), (415, 114508), (428, 114559), (441, 114601), (461, 114667), (464, 114676), (465, 114679), (467, 114685), (468, 114688), (469, 114697), (471, 114703), (474, 114718), (499, 114805), (530, 114910), (541, 114964), (556, 115051), (562, 115081), (572, 115111), (579, 115144), (581, 115153), (592, 115225), (596, 115255), (622, 115372), (632, 115417), (643, 115459), (680, 115603), (702, 115663), (738, 115765), (770, 115852), (772, 115855), (779, 115873), (791, 115909), (792, 115912), (813, 115972), (818, 115990), (851, 116086), (858, 116116), (864, 116134), (876, 116164), (911, 116257), (914, 116272), (939, 116353), (940, 116359), (944, 116371),

Gene: InterFolia_212 Start: 114739, Stop: 118134, Start Num: 66

Candidate Starts for InterFolia_212:

(Start: 23 @114646 has 44 MA's), (Start: 25 @114652 has 6 MA's), (Start: 32 @114664 has 9 MA's), (38, 114673), (Start: 66 @114739 has 166 MA's), (83, 114814), (104, 114928), (112, 114952), (133, 115012), (162, 115123), (170, 115162), (177, 115186), (185, 115228), (211, 115327), (221, 115369), (222, 115375), (227, 115387), (237, 115450), (251, 115510), (252, 115513), (259, 115540), (272, 115582), (Start: 292 @115645 has 9 MA's), (344, 115765), (351, 115801), (356, 115819), (359, 115834), (373, 115951), (379, 115990), (395, 116110), (403, 116152), (413, 116197), (415, 116206), (428, 116257), (441, 116299), (461, 116365), (464, 116374), (465, 116377), (467, 116383), (468, 116386), (469, 116395), (471, 116401), (474, 116416), (499, 116503), (530, 116608), (541, 116662), (556, 116749), (562, 116779), (572, 116809), (579, 116842), (581, 116851), (592, 116923), (596, 116953), (622, 117070), (632, 117115), (643, 117157), (680, 117301), (702, 117361), (738, 117463), (770, 117550), (772, 117553), (779, 117571), (791, 117607), (792, 117610), (813, 117670), (818, 117688), (851, 117784), (858, 117814), (864, 117832), (876, 117862), (911, 117955), (914, 117970), (939, 118051), (940, 118057), (944, 118069),

Gene: Iota_204 Start: 112726, Stop: 116121, Start Num: 66

Candidate Starts for Iota_204:

(Start: 23 @112633 has 44 MA's), (Start: 25 @112639 has 6 MA's), (Start: 32 @112651 has 9 MA's), (38, 112660), (Start: 66 @112726 has 166 MA's), (83, 112801), (104, 112915), (112, 112939), (133, 112999), (162, 113110), (170, 113149), (177, 113173), (185, 113215), (211, 113314), (221, 113356), (222, 113362), (227, 113374), (237, 113437), (251, 113497), (252, 113500), (259, 113527), (272,

113569), (Start: 292 @113632 has 9 MA's), (351, 113788), (356, 113806), (359, 113821), (373, 113938), (379, 113977), (395, 114097), (403, 114139), (413, 114184), (415, 114193), (428, 114244), (441, 114286), (461, 114352), (464, 114361), (465, 114364), (467, 114370), (468, 114373), (469, 114382), (471, 114388), (474, 114403), (499, 114490), (530, 114595), (541, 114649), (556, 114736), (562, 114766), (572, 114796), (579, 114829), (581, 114838), (592, 114910), (596, 114940), (622, 115057), (632, 115102), (643, 115144), (680, 115288), (702, 115348), (738, 115450), (770, 115537), (772, 115540), (779, 115558), (791, 115594), (792, 115597), (813, 115657), (818, 115675), (851, 115771), (858, 115801), (864, 115819), (876, 115849), (911, 115942), (914, 115957), (939, 116038), (940, 116044), (944, 116056),

Gene: Issimir_202 Start: 112556, Stop: 116074, Start Num: 18

Candidate Starts for Issimir_202:

(Start: 18 @112556 has 5 MA's), (Start: 23 @112586 has 44 MA's), (Start: 25 @112592 has 6 MA's), (Start: 32 @112604 has 9 MA's), (38, 112613), (Start: 66 @112679 has 166 MA's), (83, 112754), (104, 112868), (112, 112892), (133, 112952), (162, 113063), (170, 113102), (177, 113126), (185, 113168), (211, 113267), (221, 113309), (222, 113315), (227, 113327), (237, 113390), (251, 113450), (252, 113453), (259, 113480), (272, 113522), (Start: 292 @113585 has 9 MA's), (351, 113741), (356, 113759), (359, 113774), (373, 113891), (379, 113930), (395, 114050), (403, 114092), (413, 114137), (415, 114146), (428, 114197), (441, 114239), (461, 114305), (464, 114314), (465, 114317), (467, 114323), (468, 114326), (469, 114335), (471, 114341), (474, 114356), (499, 114443), (530, 114548), (541, 114602), (556, 114689), (562, 114719), (572, 114749), (579, 114782), (581, 114791), (592, 114863), (596, 114893), (622, 115010), (632, 115055), (643, 115097), (680, 115241), (702, 115301), (738, 115403), (770, 115490), (772, 115493), (779, 115511), (791, 115547), (792, 115550), (813, 115610), (818, 115628), (851, 115724), (858, 115754), (864, 115772), (876, 115802), (911, 115895), (914, 115910), (939, 115991), (940, 115997), (944, 116009),

Gene: Itza_54 Start: 38814, Stop: 35329, Start Num: 66

Candidate Starts for Itza_54:

(31, 38883), (36, 38874), (44, 38847), (Start: 66 @38814 has 166 MA's), (73, 38799), (75, 38787), (83, 38739), (86, 38727), (91, 38697), (100, 38646), (108, 38604), (119, 38571), (132, 38508), (164, 38373), (173, 38343), (174, 38340), (183, 38298), (198, 38244), (237, 38100), (255, 38019), (274, 37962), (277, 37953), (282, 37935), (Start: 290 @37914 has 6 MA's), (Start: 292 @37908 has 9 MA's), (321, 37857), (326, 37845), (347, 37779), (350, 37767), (357, 37740), (370, 37665), (380, 37581), (381, 37575), (407, 37428), (422, 37371), (423, 37368), (448, 37299), (450, 37290), (457, 37260), (458, 37257), (469, 37218), (471, 37212), (476, 37191), (482, 37158), (485, 37152), (504, 37080), (514, 37047), (519, 37035), (549, 36954), (558, 36906), (560, 36897), (575, 36852), (576, 36849), (580, 36825), (597, 36720), (602, 36687), (618, 36621), (645, 36525), (647, 36516), (675, 36408), (684, 36366), (697, 36336), (731, 36243), (733, 36234), (737, 36222), (738, 36219), (752, 36156), (760, 36150), (792, 36063), (800, 36042), (807, 36015), (826, 35937), (833, 35916), (849, 35868), (855, 35841), (898, 35697), (909, 35652), (940, 35535), (941, 35532), (968, 35445), (978, 35406), (979, 35400), (985, 35343), (986, 35334),

Gene: Izajani_207 Start: 113548, Stop: 116943, Start Num: 66

Candidate Starts for Izajani_207:

(Start: 23 @113455 has 44 MA's), (Start: 25 @113461 has 6 MA's), (Start: 32 @113473 has 9 MA's), (38, 113482), (Start: 66 @113548 has 166 MA's), (83, 113623), (104, 113737), (112, 113761), (133, 113821), (162, 113932), (170, 113971), (177, 113995), (185, 114037), (211, 114136), (221, 114178), (222, 114184), (227, 114196), (237, 114259), (251, 114319), (252, 114322), (259, 114349), (272, 114391), (Start: 292 @114454 has 9 MA's), (344, 114574), (351, 114610), (356, 114628), (359, 114643), (373, 114760), (379, 114799), (395, 114919), (403, 114961), (413, 115006), (415, 115015), (428, 115066), (441, 115108), (461, 115174), (464, 115183), (465, 115186), (467, 115192), (468, 115195), (469, 115204), (471, 115210), (474, 115225), (499, 115312), (530, 115417), (541, 115471), (556, 115558), (562, 115588), (572, 115618), (579, 115651), (581, 115660), (592, 115732), (596,

115762), (622, 115879), (632, 115924), (643, 115966), (680, 116110), (702, 116170), (738, 116272), (770, 116359), (772, 116362), (779, 116380), (791, 116416), (792, 116419), (813, 116479), (818, 116497), (851, 116593), (858, 116623), (864, 116641), (876, 116671), (911, 116764), (914, 116779), (939, 116860), (940, 116866), (944, 116878),

Gene: Izzy_55 Start: 40773, Stop: 37294, Start Num: 66

Candidate Starts for Izzy_55:

(Start: 32 @40842 has 9 MA's), (Start: 66 @40773 has 166 MA's), (83, 40701), (Start: 89 @40674 has 8 MA's), (91, 40659), (126, 40497), (132, 40470), (134, 40464), (156, 40374), (161, 40359), (173, 40305), (174, 40302), (198, 40206), (226, 40128), (255, 39981), (270, 39942), (282, 39897), (Start: 290 @39876 has 6 MA's), (295, 39861), (321, 39819), (326, 39807), (347, 39741), (350, 39729), (365, 39666), (381, 39537), (382, 39528), (388, 39492), (404, 39408), (407, 39390), (422, 39333), (423, 39330), (426, 39318), (469, 39180), (471, 39174), (474, 39159), (476, 39153), (485, 39114), (504, 39042), (514, 39009), (554, 38892), (558, 38868), (576, 38811), (580, 38787), (581, 38781), (592, 38712), (602, 38649), (618, 38583), (623, 38562), (630, 38544), (645, 38487), (647, 38478), (675, 38370), (678, 38361), (681, 38349), (684, 38328), (697, 38298), (706, 38271), (731, 38205), (733, 38196), (737, 38184), (765, 38097), (776, 38073), (792, 38025), (833, 37881), (855, 37806), (905, 37632), (914, 37596), (928, 37548), (936, 37515),

Gene: JDawG_56 Start: 40894, Stop: 43194, Start Num: 287

Candidate Starts for JDawG_56:

(260, 40804), (Start: 287 @40894 has 29 MA's), (Start: 290 @40900 has 6 MA's), (324, 40975), (344, 41047), (348, 41068), (356, 41101), (357, 41104), (358, 41113), (361, 41134), (364, 41140), (375, 41209), (378, 41233), (381, 41272), (391, 41329), (405, 41410), (435, 41524), (440, 41536), (455, 41566), (471, 41611), (475, 41629), (493, 41707), (496, 41713), (498, 41722), (503, 41755), (508, 41785), (512, 41791), (526, 41812), (530, 41821), (538, 41851), (558, 41926), (560, 41935), (571, 41965), (575, 41980), (592, 42082), (608, 42154), (614, 42178), (635, 42262), (663, 42352), (666, 42364), (671, 42382), (688, 42466), (692, 42475), (702, 42508), (729, 42580), (840, 42760), (850, 42790), (868, 42853), (892, 42925), (929, 43048), (938, 43081), (953, 43126), (966, 43171), (969, 43177),

Gene: JPickles_205 Start: 110933, Stop: 114421, Start Num: 23

Candidate Starts for JPickles_205:

(Start: 23 @110933 has 44 MA's), (Start: 25 @110939 has 6 MA's), (Start: 32 @110951 has 9 MA's), (38, 110960), (Start: 66 @111026 has 166 MA's), (83, 111101), (104, 111215), (112, 111239), (133, 111299), (162, 111410), (170, 111449), (177, 111473), (185, 111515), (211, 111614), (221, 111656), (222, 111662), (227, 111674), (237, 111737), (251, 111797), (252, 111800), (259, 111827), (272, 111869), (Start: 292 @111932 has 9 MA's), (351, 112088), (356, 112106), (359, 112121), (373, 112238), (379, 112277), (395, 112397), (403, 112439), (413, 112484), (415, 112493), (428, 112544), (441, 112586), (461, 112652), (464, 112661), (465, 112664), (467, 112670), (468, 112673), (469, 112682), (471, 112688), (474, 112703), (499, 112790), (530, 112895), (541, 112949), (556, 113036), (562, 113066), (572, 113096), (579, 113129), (581, 113138), (592, 113210), (596, 113240), (622, 113357), (632, 113402), (643, 113444), (680, 113588), (702, 113648), (738, 113750), (770, 113837), (772, 113840), (779, 113858), (791, 113894), (792, 113897), (813, 113957), (818, 113975), (851, 114071), (858, 114101), (864, 114119), (876, 114149), (911, 114242), (914, 114257), (939, 114338), (940, 114344), (944, 114356),

Gene: Jada_60 Start: 48523, Stop: 51813, Start Num: 68

Candidate Starts for Jada_60:

(Start: 68 @48523 has 63 MA's), (74, 48538), (75, 48544), (84, 48595), (Start: 89 @48619 has 8 MA's), (135, 48808), (157, 48898), (172, 48958), (214, 49078), (235, 49183), (249, 49246), (250, 49252), (262, 49291), (346, 49564), (358, 49618), (367, 49648), (371, 49687), (378, 49735), (460, 50035), (471, 50074), (497, 50179), (498, 50185), (499, 50191), (504, 50224), (507, 50239), (514, 50257),

(519, 50269), (521, 50275), (535, 50308), (543, 50338), (548, 50347), (562, 50413), (564, 50419), (567, 50428), (580, 50482), (592, 50554), (603, 50608), (606, 50617), (610, 50635), (612, 50641), (643, 50755), (663, 50821), (666, 50833), (678, 50893), (679, 50896), (700, 50959), (702, 50965), (704, 50971), (737, 51076), (747, 51124), (748, 51127), (774, 51196), (795, 51265), (799, 51274), (820, 51343), (822, 51349), (826, 51361), (835, 51394), (836, 51397), (855, 51460), (857, 51469), (864, 51490), (867, 51502), (881, 51544), (911, 51640), (919, 51676), (922, 51685), (928, 51703), (955, 51799),

Gene: Jalebi_78 Start: 52937, Stop: 56278, Start Num: 69

Candidate Starts for Jalebi_78:

(41, 52889), (Start: 69 @52937 has 20 MA's), (Start: 81 @52997 has 1 MA's), (Start: 89 @53033 has 8 MA's), (94, 53078), (104, 53120), (173, 53381), (204, 53483), (213, 53516), (233, 53612), (304, 53882), (Start: 307 @53891 has 8 MA's), (338, 53999), (346, 54044), (356, 54086), (378, 54218), (379, 54221), (380, 54251), (383, 54272), (395, 54341), (405, 54395), (430, 54494), (435, 54509), (502, 54725), (508, 54758), (521, 54776), (530, 54794), (543, 54839), (544, 54842), (571, 54938), (580, 54980), (582, 54992), (587, 55028), (608, 55127), (629, 55208), (640, 55250), (648, 55286), (666, 55340), (671, 55358), (692, 55454), (695, 55466), (795, 55661), (829, 55745), (853, 55826), (862, 55850), (867, 55865), (879, 55901), (882, 55913), (884, 55919), (885, 55922), (893, 55949), (903, 55994), (935, 56102), (950, 56147), (958, 56171), (969, 56207),

Gene: Jamemuya19_79 Start: 50306, Stop: 53647, Start Num: 69

Candidate Starts for Jamemuya19_79:

(Start: 69 @50306 has 20 MA's), (Start: 81 @50366 has 1 MA's), (Start: 89 @50402 has 8 MA's), (94, 50447), (104, 50489), (173, 50750), (213, 50885), (233, 50981), (304, 51251), (Start: 307 @51260 has 8 MA's), (338, 51368), (346, 51413), (356, 51455), (370, 51533), (378, 51587), (379, 51590), (380, 51620), (395, 51710), (405, 51764), (430, 51863), (435, 51878), (455, 51920), (502, 52094), (508, 52127), (521, 52145), (530, 52163), (543, 52208), (544, 52211), (571, 52307), (580, 52349), (582, 52361), (587, 52397), (629, 52577), (640, 52619), (648, 52655), (663, 52697), (666, 52709), (671, 52727), (692, 52823), (695, 52835), (795, 53030), (829, 53114), (862, 53219), (867, 53234), (873, 53249), (879, 53270), (882, 53282), (884, 53288), (885, 53291), (893, 53318), (903, 53363), (935, 53471), (950, 53516), (958, 53540), (969, 53576),

Gene: Janiyra_212 Start: 113266, Stop: 116661, Start Num: 66

Candidate Starts for Janiyra_212:

(Start: 23 @113173 has 44 MA's), (Start: 25 @113179 has 6 MA's), (Start: 32 @113191 has 9 MA's), (38, 113200), (Start: 66 @113266 has 166 MA's), (83, 113341), (104, 113455), (112, 113479), (133, 113539), (162, 113650), (170, 113689), (177, 113713), (185, 113755), (211, 113854), (221, 113896), (222, 113902), (227, 113914), (237, 113977), (251, 114037), (252, 114040), (259, 114067), (272, 114109), (Start: 292 @114172 has 9 MA's), (344, 114292), (351, 114328), (356, 114346), (359, 114361), (373, 114478), (379, 114517), (395, 114637), (403, 114679), (413, 114724), (415, 114733), (428, 114784), (441, 114826), (461, 114892), (464, 114901), (465, 114904), (467, 114910), (468, 114913), (469, 114922), (471, 114928), (474, 114943), (499, 115030), (530, 115135), (541, 115189), (556, 115276), (562, 115306), (572, 115336), (579, 115369), (581, 115378), (592, 115450), (596, 115480), (622, 115597), (632, 115642), (643, 115684), (680, 115828), (702, 115888), (738, 115990), (770, 116077), (772, 116080), (779, 116098), (791, 116134), (792, 116137), (813, 116197), (818, 116215), (851, 116311), (858, 116341), (864, 116359), (876, 116389), (911, 116482), (914, 116497), (939, 116578), (940, 116584), (944, 116596),

Gene: Jash_55 Start: 40726, Stop: 37247, Start Num: 66

Candidate Starts for Jash_55:

(Start: 32 @40795 has 9 MA's), (Start: 66 @40726 has 166 MA's), (83, 40654), (Start: 89 @40627 has 8 MA's), (91, 40612), (126, 40450), (132, 40423), (134, 40417), (156, 40327), (161, 40312), (173, 40258), (174, 40255), (198, 40159), (226, 40081), (255, 39934), (270, 39895), (282, 39850), (Start: 290

@39829 has 6 MA's), (295, 39814), (321, 39772), (326, 39760), (347, 39694), (350, 39682), (365, 39619), (381, 39490), (382, 39481), (388, 39445), (404, 39361), (407, 39343), (422, 39286), (423, 39283), (426, 39271), (469, 39133), (471, 39127), (474, 39112), (476, 39106), (485, 39067), (504, 38995), (514, 38962), (554, 38845), (558, 38821), (576, 38764), (580, 38740), (581, 38734), (592, 38665), (602, 38602), (618, 38536), (623, 38515), (630, 38497), (645, 38440), (647, 38431), (675, 38323), (678, 38314), (681, 38302), (684, 38281), (697, 38251), (706, 38224), (731, 38158), (733, 38149), (737, 38137), (765, 38050), (776, 38026), (792, 37978), (833, 37834), (855, 37759), (905, 37585), (914, 37549), (928, 37501), (936, 37468),

Gene: Jay2Jay_84 Start: 59915, Stop: 63199, Start Num: 68

Candidate Starts for Jay2Jay_84:

(Start: 68 @59915 has 63 MA's), (78, 59960), (84, 59990), (88, 60008), (Start: 89 @60014 has 8 MA's), (100, 60080), (157, 60293), (214, 60473), (235, 60578), (249, 60641), (250, 60647), (262, 60686), (289, 60776), (298, 60803), (334, 60902), (358, 61013), (367, 61043), (371, 61082), (411, 61325), (418, 61355), (471, 61469), (474, 61484), (498, 61580), (499, 61586), (521, 61670), (543, 61733), (548, 61742), (554, 61769), (564, 61814), (580, 61877), (592, 61949), (603, 62003), (606, 62012), (608, 62021), (610, 62030), (612, 62036), (663, 62216), (675, 62279), (698, 62348), (735, 62465), (757, 62555), (775, 62597), (795, 62660), (807, 62693), (822, 62744), (834, 62783), (835, 62789), (855, 62855), (870, 62903), (881, 62939), (895, 62984), (896, 62993), (911, 63035), (923, 63083), (928, 63098),

Gene: JayJay_211 Start: 113963, Stop: 117358, Start Num: 66

Candidate Starts for JayJay_211:

(Start: 23 @113870 has 44 MA's), (Start: 25 @113876 has 6 MA's), (Start: 32 @113888 has 9 MA's), (38, 113897), (Start: 66 @113963 has 166 MA's), (83, 114038), (104, 114152), (112, 114176), (133, 114236), (162, 114347), (170, 114386), (177, 114410), (185, 114452), (211, 114551), (221, 114593), (222, 114599), (227, 114611), (237, 114674), (251, 114734), (252, 114737), (259, 114764), (272, 114806), (Start: 292 @114869 has 9 MA's), (344, 114989), (351, 115025), (356, 115043), (359, 115058), (373, 115175), (379, 115214), (395, 115334), (403, 115376), (413, 115421), (415, 115430), (428, 115481), (441, 115523), (461, 115589), (464, 115598), (465, 115601), (467, 115607), (468, 115610), (469, 115619), (471, 115625), (474, 115640), (499, 115727), (530, 115832), (541, 115886), (556, 115973), (562, 116003), (572, 116033), (579, 116066), (581, 116075), (592, 116147), (596, 116177), (622, 116294), (632, 116339), (643, 116381), (702, 116585), (738, 116687), (770, 116774), (772, 116777), (779, 116795), (791, 116831), (792, 116834), (813, 116894), (818, 116912), (851, 117008), (858, 117038), (864, 117056), (876, 117086), (911, 117179), (914, 117194), (939, 117275), (940, 117281), (944, 117293),

Gene: Jaygup_205 Start: 112012, Stop: 115482, Start Num: 32

Candidate Starts for Jaygup_205:

(Start: 23 @111994 has 44 MA's), (Start: 25 @112000 has 6 MA's), (Start: 32 @112012 has 9 MA's), (38, 112021), (Start: 66 @112087 has 166 MA's), (83, 112162), (104, 112276), (112, 112300), (133, 112360), (162, 112471), (170, 112510), (177, 112534), (185, 112576), (211, 112675), (221, 112717), (222, 112723), (227, 112735), (237, 112798), (251, 112858), (252, 112861), (259, 112888), (272, 112930), (Start: 292 @112993 has 9 MA's), (351, 113149), (356, 113167), (359, 113182), (373, 113299), (379, 113338), (395, 113458), (403, 113500), (413, 113545), (415, 113554), (428, 113605), (441, 113647), (461, 113713), (464, 113722), (465, 113725), (467, 113731), (468, 113734), (469, 113743), (471, 113749), (474, 113764), (499, 113851), (530, 113956), (541, 114010), (556, 114097), (562, 114127), (572, 114157), (579, 114190), (581, 114199), (592, 114271), (596, 114301), (622, 114418), (632, 114463), (643, 114505), (680, 114649), (702, 114709), (738, 114811), (770, 114898), (772, 114901), (779, 114919), (791, 114955), (792, 114958), (813, 115018), (818, 115036), (851, 115132), (858, 115162), (864, 115180), (876, 115210), (911, 115303), (914, 115318), (939, 115399), (940, 115405), (944, 115417),

Gene: JeanGrey_95 Start: 74979, Stop: 78152, Start Num: 53

Candidate Starts for JeanGrey_95:

(53, 74979), (78, 75033), (91, 75102), (128, 75231), (140, 75279), (155, 75339), (173, 75411), (184, 75459), (187, 75471), (193, 75498), (211, 75564), (213, 75570), (214, 75573), (218, 75594), (237, 75687), (251, 75741), (252, 75744), (259, 75771), (Start: 292 @75873 has 9 MA's), (344, 75993), (357, 76050), (365, 76089), (367, 76092), (368, 76095), (372, 76140), (373, 76143), (382, 76227), (388, 76263), (391, 76275), (409, 76368), (415, 76398), (442, 76467), (449, 76488), (461, 76530), (464, 76539), (467, 76548), (548, 76824), (558, 76875), (584, 76983), (590, 77028), (592, 77031), (618, 77148), (620, 77157), (624, 77172), (667, 77343), (679, 77403), (680, 77406), (799, 77733), (858, 77832), (864, 77850), (911, 77973), (943, 78084), (960, 78132),

Gene: Jedediah_209 Start: 113047, Stop: 116535, Start Num: 23

Candidate Starts for Jedediah_209:

(Start: 23 @113047 has 44 MA's), (Start: 25 @113053 has 6 MA's), (Start: 32 @113065 has 9 MA's), (38, 113074), (Start: 66 @113140 has 166 MA's), (83, 113215), (104, 113329), (112, 113353), (133, 113413), (162, 113524), (170, 113563), (177, 113587), (185, 113629), (211, 113728), (221, 113770), (222, 113776), (227, 113788), (237, 113851), (251, 113911), (252, 113914), (259, 113941), (272, 113983), (Start: 292 @114046 has 9 MA's), (351, 114202), (356, 114220), (359, 114235), (373, 114352), (379, 114391), (395, 114511), (403, 114553), (413, 114598), (415, 114607), (428, 114658), (441, 114700), (461, 114766), (464, 114775), (465, 114778), (467, 114784), (468, 114787), (469, 114796), (471, 114802), (474, 114817), (499, 114904), (530, 115009), (541, 115063), (556, 115150), (562, 115180), (572, 115210), (579, 115243), (581, 115252), (592, 115324), (596, 115354), (622, 115471), (632, 115516), (643, 115558), (680, 115702), (702, 115762), (738, 115864), (770, 115951), (772, 115954), (779, 115972), (791, 116008), (792, 116011), (813, 116071), (818, 116089), (851, 116185), (858, 116215), (864, 116233), (876, 116263), (911, 116356), (914, 116371), (939, 116452), (940, 116458), (944, 116470),

Gene: Jemmno_208 Start: 111894, Stop: 115364, Start Num: 32

Candidate Starts for Jemmno_208:

(Start: 23 @111876 has 44 MA's), (Start: 25 @111882 has 6 MA's), (Start: 32 @111894 has 9 MA's), (38, 111903), (Start: 66 @111969 has 166 MA's), (83, 112044), (104, 112158), (112, 112182), (133, 112242), (162, 112353), (170, 112392), (177, 112416), (185, 112458), (211, 112557), (221, 112599), (222, 112605), (227, 112617), (237, 112680), (251, 112740), (252, 112743), (259, 112770), (272, 112812), (Start: 292 @112875 has 9 MA's), (344, 112995), (351, 113031), (356, 113049), (359, 113064), (373, 113181), (379, 113220), (395, 113340), (403, 113382), (413, 113427), (415, 113436), (428, 113487), (441, 113529), (461, 113595), (464, 113604), (465, 113607), (467, 113613), (468, 113616), (469, 113625), (471, 113631), (474, 113646), (499, 113733), (530, 113838), (541, 113892), (556, 113979), (562, 114009), (572, 114039), (579, 114072), (581, 114081), (592, 114153), (596, 114183), (622, 114300), (632, 114345), (643, 114387), (680, 114531), (702, 114591), (738, 114693), (770, 114780), (772, 114783), (779, 114801), (791, 114837), (792, 114840), (813, 114900), (818, 114918), (851, 115014), (858, 115044), (864, 115062), (876, 115092), (911, 115185), (914, 115200), (939, 115281), (940, 115287), (944, 115299),

Gene: Jessibeth14_209 Start: 114157, Stop: 117552, Start Num: 66

Candidate Starts for Jessibeth14_209:

(Start: 23 @114064 has 44 MA's), (Start: 25 @114070 has 6 MA's), (Start: 32 @114082 has 9 MA's), (38, 114091), (Start: 66 @114157 has 166 MA's), (83, 114232), (104, 114346), (112, 114370), (133, 114430), (162, 114541), (170, 114580), (177, 114604), (185, 114646), (211, 114745), (221, 114787), (222, 114793), (227, 114805), (237, 114868), (251, 114928), (252, 114931), (259, 114958), (272, 115000), (Start: 292 @115063 has 9 MA's), (344, 115183), (351, 115219), (356, 115237), (359, 115252), (373, 115369), (379, 115408), (395, 115528), (403, 115570), (413, 115615), (415, 115624), (428, 115675), (441, 115717), (461, 115783), (464, 115792), (465, 115795), (467, 115801), (468, 115804), (469, 115813), (471, 115819), (474, 115834), (499, 115921), (530, 116026), (541, 116080),

(556, 116167), (562, 116197), (572, 116227), (579, 116260), (581, 116269), (592, 116341), (596, 116371), (622, 116488), (632, 116533), (643, 116575), (680, 116719), (702, 116779), (738, 116881), (770, 116968), (772, 116971), (779, 116989), (791, 117025), (792, 117028), (813, 117088), (818, 117106), (851, 117202), (858, 117232), (864, 117250), (876, 117280), (911, 117373), (914, 117388), (939, 117469), (940, 117475), (944, 117487),

Gene: Jezreel_206 Start: 113227, Stop: 116622, Start Num: 66

Candidate Starts for Jezreel_206:

(Start: 23 @113134 has 44 MA's), (Start: 25 @113140 has 6 MA's), (Start: 32 @113152 has 9 MA's), (38, 113161), (Start: 66 @113227 has 166 MA's), (83, 113302), (104, 113416), (112, 113440), (133, 113500), (162, 113611), (170, 113650), (177, 113674), (185, 113716), (211, 113815), (221, 113857), (222, 113863), (227, 113875), (237, 113938), (251, 113998), (252, 114001), (259, 114028), (272, 114070), (Start: 292 @114133 has 9 MA's), (351, 114289), (356, 114307), (359, 114322), (373, 114439), (379, 114478), (395, 114598), (403, 114640), (413, 114685), (415, 114694), (428, 114745), (441, 114787), (461, 114853), (464, 114862), (465, 114865), (467, 114871), (468, 114874), (469, 114883), (471, 114889), (474, 114904), (499, 114991), (530, 115096), (541, 115150), (556, 115237), (562, 115267), (572, 115297), (579, 115330), (581, 115339), (592, 115411), (596, 115441), (622, 115558), (632, 115603), (643, 115645), (680, 115789), (702, 115849), (738, 115951), (770, 116038), (772, 116041), (779, 116059), (791, 116095), (792, 116098), (813, 116158), (818, 116176), (851, 116272), (858, 116302), (864, 116320), (876, 116350), (911, 116443), (914, 116458), (939, 116539), (940, 116545), (944, 116557),

Gene: Jifall16_59 Start: 48758, Stop: 45447, Start Num: 72

Candidate Starts for Jifall16_59:

(3, 49001), (Start: 72 @48758 has 72 MA's), (84, 48686), (Start: 89 @48662 has 8 MA's), (124, 48509), (127, 48500), (160, 48377), (204, 48218), (206, 48212), (212, 48188), (234, 48080), (240, 48050), (256, 47981), (311, 47843), (317, 47825), (356, 47672), (365, 47630), (376, 47552), (378, 47537), (399, 47399), (460, 47201), (474, 47147), (475, 47144), (491, 47084), (502, 47033), (530, 46964), (543, 46919), (593, 46679), (602, 46637), (603, 46634), (605, 46628), (610, 46610), (634, 46514), (648, 46460), (688, 46316), (692, 46307), (722, 46232), (744, 46157), (759, 46103), (779, 46061), (795, 46013), (824, 45932), (831, 45911), (857, 45821), (871, 45791), (878, 45767), (879, 45764), (930, 45581), (951, 45524),

Gene: JigglyPuff_216 Start: 115537, Stop: 118932, Start Num: 66

Candidate Starts for JigglyPuff_216:

(Start: 23 @115444 has 44 MA's), (Start: 25 @115450 has 6 MA's), (Start: 32 @115462 has 9 MA's), (38, 115471), (Start: 66 @115537 has 166 MA's), (83, 115612), (104, 115726), (112, 115750), (133, 115810), (162, 115921), (170, 115960), (177, 115984), (185, 116026), (211, 116125), (221, 116167), (222, 116173), (227, 116185), (237, 116248), (251, 116308), (252, 116311), (259, 116338), (272, 116380), (Start: 292 @116443 has 9 MA's), (351, 116599), (356, 116617), (359, 116632), (373, 116749), (379, 116788), (395, 116908), (403, 116950), (413, 116995), (415, 117004), (428, 117055), (441, 117097), (461, 117163), (464, 117172), (465, 117175), (467, 117181), (468, 117184), (469, 117193), (471, 117199), (474, 117214), (499, 117301), (530, 117406), (541, 117460), (556, 117547), (562, 117577), (572, 117607), (579, 117640), (581, 117649), (592, 117721), (596, 117751), (622, 117868), (632, 117913), (643, 117955), (680, 118099), (702, 118159), (738, 118261), (770, 118348), (772, 118351), (779, 118369), (791, 118405), (792, 118408), (813, 118468), (818, 118486), (851, 118582), (858, 118612), (864, 118630), (876, 118660), (911, 118753), (914, 118768), (939, 118849), (940, 118855), (944, 118867),

Gene: JimJam_82 Start: 58518, Stop: 61838, Start Num: 67

Candidate Starts for JimJam_82:

(Start: 67 @58518 has 30 MA's), (79, 58569), (84, 58590), (Start: 89 @58614 has 8 MA's), (103, 58695), (157, 58893), (214, 59073), (226, 59121), (227, 59124), (235, 59178), (245, 59229), (249,

59247), (251, 59256), (262, 59292), (295, 59400), (298, 59409), (358, 59619), (371, 59688), (395, 59853), (411, 59931), (428, 60000), (469, 60093), (499, 60216), (521, 60300), (543, 60363), (548, 60372), (592, 60576), (603, 60630), (606, 60639), (610, 60657), (612, 60663), (666, 60855), (672, 60879), (675, 60906), (706, 61014), (760, 61203), (790, 61281), (806, 61323), (809, 61341), (822, 61383), (834, 61422), (835, 61428), (845, 61455), (855, 61494), (870, 61542), (895, 61623), (899, 61644), (907, 61671), (911, 61674), (914, 61689), (923, 61722), (942, 61791),

Gene: JingleBells_57 Start: 40808, Stop: 43108, Start Num: 287

Candidate Starts for JingleBells_57:

(Start: 287 @40808 has 29 MA's), (Start: 290 @40814 has 6 MA's), (324, 40889), (344, 40961), (348, 40982), (356, 41015), (358, 41027), (359, 41030), (361, 41048), (364, 41054), (375, 41123), (378, 41147), (381, 41186), (391, 41243), (405, 41324), (435, 41438), (440, 41450), (471, 41525), (475, 41543), (493, 41621), (496, 41627), (503, 41669), (508, 41699), (512, 41705), (526, 41726), (530, 41735), (538, 41765), (558, 41840), (560, 41849), (570, 41873), (571, 41879), (572, 41885), (575, 41894), (592, 41996), (608, 42068), (614, 42092), (635, 42176), (663, 42266), (666, 42278), (671, 42296), (687, 42374), (688, 42380), (692, 42389), (702, 42422), (729, 42494), (840, 42674), (850, 42704), (868, 42767), (892, 42839), (929, 42962), (938, 42995), (953, 43040), (966, 43085), (969, 43091),

Gene: Jollison_81 Start: 58400, Stop: 61720, Start Num: 67

Candidate Starts for Jollison_81:

(Start: 67 @58400 has 30 MA's), (79, 58451), (84, 58472), (Start: 89 @58496 has 8 MA's), (103, 58577), (157, 58775), (214, 58955), (226, 59003), (235, 59060), (245, 59111), (249, 59129), (251, 59138), (262, 59174), (295, 59282), (298, 59291), (358, 59501), (371, 59570), (395, 59735), (411, 59813), (469, 59975), (499, 60098), (502, 60122), (521, 60182), (543, 60245), (548, 60254), (592, 60458), (603, 60512), (606, 60521), (610, 60539), (612, 60545), (664, 60728), (666, 60737), (672, 60761), (675, 60788), (706, 60896), (760, 61085), (790, 61163), (806, 61205), (809, 61223), (822, 61265), (834, 61304), (835, 61310), (845, 61337), (855, 61376), (870, 61424), (873, 61433), (895, 61505), (899, 61526), (907, 61553), (911, 61556), (914, 61571), (923, 61604), (942, 61673),

Gene: JulietS_202 Start: 110183, Stop: 113653, Start Num: 32

Candidate Starts for JulietS_202:

(Start: 18 @110135 has 5 MA's), (Start: 23 @110165 has 44 MA's), (Start: 25 @110171 has 6 MA's), (Start: 32 @110183 has 9 MA's), (38, 110192), (Start: 66 @110258 has 166 MA's), (83, 110333), (104, 110447), (112, 110471), (133, 110531), (162, 110642), (170, 110681), (177, 110705), (185, 110747), (211, 110846), (221, 110888), (222, 110894), (227, 110906), (237, 110969), (251, 111029), (252, 111032), (259, 111059), (272, 111101), (Start: 292 @111164 has 9 MA's), (344, 111284), (351, 111320), (356, 111338), (359, 111353), (373, 111470), (379, 111509), (395, 111629), (403, 111671), (413, 111716), (415, 111725), (428, 111776), (441, 111818), (461, 111884), (464, 111893), (465, 111896), (467, 111902), (468, 111905), (469, 111914), (471, 111920), (474, 111935), (499, 112022), (530, 112127), (541, 112181), (556, 112268), (562, 112298), (572, 112328), (579, 112361), (581, 112370), (592, 112442), (596, 112472), (622, 112589), (632, 112634), (643, 112676), (680, 112820), (702, 112880), (738, 112982), (770, 113069), (772, 113072), (779, 113090), (791, 113126), (792, 113129), (813, 113189), (818, 113207), (851, 113303), (858, 113333), (864, 113351), (876, 113381), (911, 113474), (914, 113489), (939, 113570), (940, 113576), (944, 113588),

Gene: JustHall_203 Start: 112173, Stop: 115568, Start Num: 66

Candidate Starts for JustHall_203:

(Start: 23 @112080 has 44 MA's), (Start: 25 @112086 has 6 MA's), (Start: 32 @112098 has 9 MA's), (38, 112107), (Start: 66 @112173 has 166 MA's), (83, 112248), (104, 112362), (112, 112386), (133, 112446), (162, 112557), (170, 112596), (177, 112620), (185, 112662), (211, 112761), (221, 112803), (222, 112809), (227, 112821), (237, 112884), (251, 112944), (252, 112947), (259, 112974), (272, 113016), (Start: 292 @113079 has 9 MA's), (344, 113199), (351, 113235), (356, 113253), (359,

113268), (373, 113385), (379, 113424), (395, 113544), (403, 113586), (413, 113631), (415, 113640), (428, 113691), (441, 113733), (461, 113799), (464, 113808), (465, 113811), (467, 113817), (468, 113820), (469, 113829), (471, 113835), (474, 113850), (499, 113937), (530, 114042), (541, 114096), (556, 114183), (562, 114213), (572, 114243), (579, 114276), (581, 114285), (592, 114357), (596, 114387), (622, 114504), (632, 114549), (643, 114591), (680, 114735), (702, 114795), (738, 114897), (770, 114984), (772, 114987), (779, 115005), (791, 115041), (792, 115044), (813, 115104), (818, 115122), (851, 115218), (858, 115248), (864, 115266), (876, 115296), (911, 115389), (914, 115404), (939, 115485), (940, 115491), (944, 115503),

Gene: Kabluna_63 Start: 47955, Stop: 44653, Start Num: 72

Candidate Starts for Kabluna_63:

(Start: 72 @47955 has 72 MA's), (Start: 89 @47859 has 8 MA's), (124, 47706), (127, 47697), (160, 47574), (204, 47415), (206, 47409), (212, 47385), (234, 47277), (261, 47166), (311, 47040), (356, 46869), (365, 46827), (376, 46749), (378, 46734), (399, 46596), (428, 46464), (460, 46398), (475, 46341), (491, 46281), (502, 46230), (530, 46161), (543, 46116), (593, 45873), (602, 45831), (603, 45828), (605, 45822), (610, 45804), (634, 45708), (648, 45654), (692, 45501), (711, 45441), (722, 45426), (759, 45297), (795, 45219), (817, 45159), (824, 45138), (825, 45135), (831, 45117), (855, 45033), (878, 44973), (888, 44946), (889, 44943), (905, 44877), (962, 44694), (971, 44664),

Gene: Kabocha_99 Start: 71499, Stop: 74312, Start Num: 54

Candidate Starts for Kabocha_99:

(Start: 46 @71484 has 1 MA's), (Start: 51 @71496 has 2 MA's), (Start: 54 @71499 has 8 MA's), (83, 71592), (92, 71652), (131, 71802), (132, 71805), (134, 71811), (158, 71910), (163, 71940), (164, 71943), (180, 72006), (185, 72027), (186, 72030), (193, 72057), (222, 72174), (226, 72183), (235, 72240), (237, 72249), (253, 72315), (273, 72381), (347, 72546), (351, 72564), (355, 72579), (357, 72585), (359, 72597), (367, 72624), (368, 72627), (375, 72687), (376, 72696), (377, 72699), (379, 72711), (382, 72756), (394, 72825), (397, 72849), (432, 73005), (438, 73023), (443, 73047), (448, 73065), (475, 73161), (483, 73203), (487, 73209), (499, 73245), (500, 73254), (503, 73272), (504, 73278), (508, 73302), (512, 73308), (514, 73311), (521, 73329), (522, 73332), (554, 73425), (564, 73470), (566, 73476), (574, 73500), (575, 73503), (577, 73512), (578, 73518), (580, 73530), (600, 73647), (602, 73665), (603, 73668), (606, 73677), (635, 73791), (639, 73806), (675, 73953), (679, 73965), (681, 73971), (692, 74004), (703, 74037), (708, 74055), (712, 74067), (714, 74076), (750, 74190), (754, 74202), (762, 74217), (787, 74292), (791, 74301),

Gene: Kamryn_208 Start: 113803, Stop: 117198, Start Num: 66

Candidate Starts for Kamryn_208:

(Start: 23 @113710 has 44 MA's), (Start: 25 @113716 has 6 MA's), (Start: 32 @113728 has 9 MA's), (38, 113737), (Start: 66 @113803 has 166 MA's), (83, 113878), (104, 113992), (112, 114016), (133, 114076), (162, 114187), (170, 114226), (177, 114250), (185, 114292), (211, 114391), (221, 114433), (222, 114439), (227, 114451), (237, 114514), (251, 114574), (252, 114577), (259, 114604), (272, 114646), (Start: 292 @114709 has 9 MA's), (351, 114865), (356, 114883), (359, 114898), (373, 115015), (379, 115054), (395, 115174), (403, 115216), (413, 115261), (415, 115270), (428, 115321), (441, 115363), (461, 115429), (464, 115438), (465, 115441), (467, 115447), (468, 115450), (469, 115459), (471, 115465), (474, 115480), (499, 115567), (530, 115672), (541, 115726), (556, 115813), (562, 115843), (572, 115873), (579, 115906), (581, 115915), (592, 115987), (596, 116017), (622, 116134), (632, 116179), (643, 116221), (680, 116365), (702, 116425), (738, 116527), (770, 116614), (772, 116617), (779, 116635), (791, 116671), (792, 116674), (813, 116734), (818, 116752), (851, 116848), (858, 116878), (864, 116896), (876, 116926), (911, 117019), (914, 117034), (939, 117115), (940, 117121), (944, 117133),

Gene: KandZ_65 Start: 49894, Stop: 53196, Start Num: 26

Candidate Starts for KandZ_65:

(Start: 26 @49894 has 20 MA's), (Start: 61 @49981 has 1 MA's), (65, 49987), (Start: 72 @49996 has 72 MA's), (Start: 89 @50092 has 8 MA's), (127, 50248), (151, 50335), (152, 50338), (163, 50389), (233, 50653), (240, 50692), (258, 50764), (261, 50773), (283, 50848), (308, 50914), (309, 50920), (329, 50974), (338, 50992), (347, 51043), (348, 51046), (355, 51076), (371, 51160), (372, 51169), (376, 51196), (378, 51211), (405, 51388), (407, 51397), (435, 51502), (469, 51583), (482, 51643), (502, 51718), (508, 51751), (512, 51757), (526, 51778), (530, 51787), (543, 51832), (560, 51901), (565, 51916), (582, 51985), (592, 52048), (600, 52081), (601, 52084), (612, 52135), (631, 52210), (666, 52333), (671, 52351), (691, 52429), (692, 52432), (695, 52444), (710, 52489), (721, 52510), (724, 52522), (733, 52552), (740, 52573), (801, 52645), (829, 52702), (860, 52801), (882, 52867), (906, 52957), (916, 52987), (917, 52990), (927, 53020), (938, 53065), (951, 53107), (961, 53137), (964, 53149), (969, 53164), (971, 53173),

Gene: Karate_56 Start: 41072, Stop: 43375, Start Num: 287

Candidate Starts for Karate_56:

(Start: 287 @41072 has 29 MA's), (Start: 290 @41078 has 6 MA's), (324, 41156), (344, 41228), (348, 41249), (356, 41282), (358, 41294), (359, 41297), (361, 41315), (375, 41390), (378, 41414), (381, 41453), (391, 41510), (405, 41591), (435, 41705), (440, 41717), (471, 41792), (475, 41810), (493, 41888), (496, 41894), (498, 41903), (503, 41936), (508, 41966), (512, 41972), (526, 41993), (530, 42002), (538, 42032), (558, 42107), (570, 42140), (571, 42146), (575, 42161), (592, 42263), (608, 42335), (614, 42359), (635, 42443), (663, 42533), (666, 42545), (671, 42563), (687, 42641), (688, 42647), (692, 42656), (702, 42689), (729, 42761), (840, 42941), (850, 42971), (868, 43034), (892, 43106), (929, 43229), (938, 43262), (953, 43307), (966, 43352), (969, 43358),

Gene: Karimac_81 Start: 58549, Stop: 61869, Start Num: 67

Candidate Starts for Karimac_81:

(Start: 67 @58549 has 30 MA's), (79, 58600), (84, 58621), (Start: 89 @58645 has 8 MA's), (103, 58726), (157, 58924), (214, 59104), (226, 59152), (227, 59155), (235, 59209), (245, 59260), (249, 59278), (251, 59287), (262, 59323), (295, 59431), (298, 59440), (358, 59650), (371, 59719), (395, 59884), (411, 59962), (428, 60031), (469, 60124), (499, 60247), (521, 60331), (543, 60394), (548, 60403), (592, 60607), (603, 60661), (606, 60670), (610, 60688), (612, 60694), (666, 60886), (672, 60910), (675, 60937), (706, 61045), (760, 61234), (790, 61312), (806, 61354), (809, 61372), (822, 61414), (834, 61453), (835, 61459), (845, 61486), (855, 61525), (870, 61573), (895, 61654), (899, 61675), (907, 61702), (911, 61705), (914, 61720), (923, 61753), (942, 61822),

Gene: Karp_59 Start: 49450, Stop: 52740, Start Num: 68

Candidate Starts for Karp_59:

(55, 49432), (Start: 68 @49450 has 63 MA's), (74, 49465), (75, 49471), (79, 49501), (84, 49522), (88, 49540), (Start: 89 @49546 has 8 MA's), (129, 49714), (140, 49756), (157, 49825), (172, 49885), (210, 49999), (214, 50005), (235, 50110), (249, 50173), (250, 50179), (262, 50218), (328, 50407), (342, 50464), (346, 50491), (357, 50536), (407, 50842), (416, 50878), (460, 50962), (471, 51001), (497, 51106), (499, 51118), (504, 51151), (512, 51181), (514, 51184), (519, 51196), (521, 51202), (548, 51274), (562, 51340), (564, 51346), (580, 51409), (592, 51481), (603, 51535), (606, 51544), (610, 51562), (612, 51568), (643, 51682), (663, 51748), (666, 51760), (678, 51820), (679, 51823), (698, 51880), (700, 51886), (704, 51898), (714, 51934), (737, 52003), (799, 52201), (809, 52234), (820, 52270), (822, 52276), (826, 52288), (851, 52369), (855, 52387), (857, 52396), (864, 52417), (874, 52447), (892, 52504), (911, 52567), (928, 52630),

Gene: Katalie_54 Start: 42740, Stop: 39261, Start Num: 66

Candidate Starts for Katalie_54:

(Start: 32 @42806 has 9 MA's), (Start: 66 @42740 has 166 MA's), (Start: 81 @42677 has 1 MA's), (83, 42668), (86, 42656), (91, 42626), (108, 42533), (119, 42500), (126, 42464), (143, 42395), (156, 42341), (174, 42269), (198, 42173), (226, 42095), (255, 41948), (270, 41909), (282, 41864), (Start: 290 @41843 has 6 MA's), (295, 41828), (313, 41807), (347, 41708), (350, 41696), (365, 41633), (380,

41510), (381, 41504), (388, 41459), (404, 41375), (407, 41357), (422, 41300), (423, 41297), (426, 41285), (469, 41147), (474, 41126), (476, 41120), (478, 41105), (493, 41063), (503, 41015), (504, 41009), (514, 40976), (558, 40835), (576, 40778), (580, 40754), (581, 40748), (592, 40679), (601, 40631), (602, 40616), (608, 40595), (618, 40550), (645, 40454), (647, 40445), (675, 40337), (678, 40328), (681, 40316), (684, 40295), (697, 40265), (706, 40238), (733, 40163), (737, 40151), (765, 40064), (776, 40040), (833, 39848), (866, 39737), (905, 39599), (914, 39563), (928, 39515), (929, 39509), (936, 39482), (976, 39350), (978, 39338), (979, 39332), (985, 39275),

Gene: Kate_57 Start: 41173, Stop: 43476, Start Num: 287

Candidate Starts for Kate_57:

(Start: 287 @41173 has 29 MA's), (Start: 290 @41179 has 6 MA's), (324, 41257), (344, 41329), (348, 41350), (356, 41383), (358, 41395), (359, 41398), (361, 41416), (375, 41491), (378, 41515), (381, 41554), (388, 41599), (391, 41611), (405, 41692), (435, 41806), (440, 41818), (471, 41893), (475, 41911), (493, 41989), (496, 41995), (498, 42004), (503, 42037), (508, 42067), (512, 42073), (526, 42094), (530, 42103), (538, 42133), (558, 42208), (560, 42217), (570, 42241), (571, 42247), (575, 42262), (580, 42289), (592, 42364), (608, 42436), (614, 42460), (635, 42544), (663, 42634), (666, 42646), (671, 42664), (687, 42742), (688, 42748), (692, 42757), (702, 42790), (729, 42862), (840, 43042), (850, 43072), (868, 43135), (892, 43207), (929, 43330), (938, 43363), (953, 43408), (966, 43453), (969, 43459),

Gene: Kboogie_213 Start: 112831, Stop: 116226, Start Num: 66

Candidate Starts for Kboogie_213:

(Start: 23 @112738 has 44 MA's), (Start: 25 @112744 has 6 MA's), (Start: 32 @112756 has 9 MA's), (38, 112765), (Start: 66 @112831 has 166 MA's), (83, 112906), (104, 113020), (112, 113044), (133, 113104), (162, 113215), (170, 113254), (177, 113278), (185, 113320), (211, 113419), (221, 113461), (222, 113467), (227, 113479), (237, 113542), (251, 113602), (252, 113605), (259, 113632), (272, 113674), (Start: 292 @113737 has 9 MA's), (344, 113857), (351, 113893), (356, 113911), (359, 113926), (373, 114043), (379, 114082), (395, 114202), (403, 114244), (413, 114289), (415, 114298), (428, 114349), (441, 114391), (461, 114457), (464, 114466), (465, 114469), (467, 114475), (468, 114478), (469, 114487), (471, 114493), (474, 114508), (499, 114595), (530, 114700), (541, 114754), (556, 114841), (562, 114871), (572, 114901), (579, 114934), (581, 114943), (592, 115015), (596, 115045), (622, 115162), (632, 115207), (643, 115249), (680, 115393), (702, 115453), (738, 115555), (770, 115642), (772, 115645), (779, 115663), (791, 115699), (792, 115702), (813, 115762), (818, 115780), (851, 115876), (858, 115906), (864, 115924), (876, 115954), (911, 116047), (914, 116062), (939, 116143), (940, 116149), (944, 116161),

Gene: Kenrey_62 Start: 48788, Stop: 52078, Start Num: 68

Candidate Starts for Kenrey_62:

(Start: 68 @48788 has 63 MA's), (75, 48809), (79, 48839), (84, 48860), (Start: 89 @48884 has 8 MA's), (157, 49163), (172, 49223), (210, 49337), (214, 49343), (216, 49355), (235, 49448), (249, 49511), (250, 49517), (262, 49556), (271, 49583), (334, 49772), (338, 49787), (371, 49952), (378, 50000), (460, 50300), (471, 50339), (499, 50456), (504, 50489), (514, 50522), (521, 50540), (535, 50573), (548, 50612), (562, 50678), (564, 50684), (580, 50747), (592, 50819), (603, 50873), (606, 50882), (610, 50900), (612, 50906), (643, 51020), (663, 51086), (666, 51098), (678, 51158), (679, 51161), (704, 51236), (723, 51299), (737, 51341), (774, 51461), (799, 51539), (820, 51608), (822, 51614), (851, 51707), (855, 51725), (857, 51734), (864, 51755), (874, 51785), (885, 51818), (911, 51905), (913, 51917), (919, 51941), (928, 51968),

Gene: KentuckyRacer_82 Start: 58333, Stop: 61653, Start Num: 67

Candidate Starts for KentuckyRacer_82:

(Start: 67 @58333 has 30 MA's), (79, 58384), (84, 58405), (Start: 89 @58429 has 8 MA's), (103, 58510), (157, 58708), (214, 58888), (226, 58936), (235, 58993), (245, 59044), (249, 59062), (251, 59071), (262, 59107), (295, 59215), (298, 59224), (358, 59434), (371, 59503), (395, 59668), (411,

59746), (428, 59815), (469, 59908), (499, 60031), (521, 60115), (543, 60178), (548, 60187), (592, 60391), (603, 60445), (606, 60454), (610, 60472), (612, 60478), (666, 60670), (672, 60694), (675, 60721), (706, 60829), (760, 61018), (790, 61096), (806, 61138), (809, 61156), (822, 61198), (834, 61237), (835, 61243), (845, 61270), (855, 61309), (870, 61357), (895, 61438), (899, 61459), (907, 61486), (911, 61489), (914, 61504), (923, 61537), (942, 61606),

Gene: Khaleesi_208 Start: 113624, Stop: 117019, Start Num: 66

Candidate Starts for Khaleesi_208:

(Start: 23 @113531 has 44 MA's), (Start: 25 @113537 has 6 MA's), (Start: 32 @113549 has 9 MA's), (38, 113558), (Start: 66 @113624 has 166 MA's), (83, 113699), (104, 113813), (112, 113837), (133, 113897), (162, 114008), (170, 114047), (177, 114071), (185, 114113), (211, 114212), (221, 114254), (222, 114260), (227, 114272), (237, 114335), (251, 114395), (252, 114398), (259, 114425), (272, 114467), (Start: 292 @114530 has 9 MA's), (344, 114650), (351, 114686), (356, 114704), (359, 114719), (373, 114836), (379, 114875), (395, 114995), (403, 115037), (413, 115082), (415, 115091), (428, 115142), (441, 115184), (461, 115250), (464, 115259), (465, 115262), (467, 115268), (468, 115271), (469, 115280), (471, 115286), (474, 115301), (499, 115388), (530, 115493), (541, 115547), (556, 115634), (562, 115664), (572, 115694), (579, 115727), (581, 115736), (592, 115808), (596, 115838), (622, 115955), (632, 116000), (643, 116042), (680, 116186), (702, 116246), (738, 116348), (770, 116435), (772, 116438), (779, 116456), (791, 116492), (792, 116495), (813, 116555), (818, 116573), (851, 116669), (858, 116699), (864, 116717), (876, 116747), (911, 116840), (914, 116855), (939, 116936), (940, 116942), (944, 116954),

Gene: KidneyBean_60 Start: 48882, Stop: 45571, Start Num: 72

Candidate Starts for KidneyBean_60:

(3, 49125), (Start: 72 @48882 has 72 MA's), (84, 48810), (Start: 89 @48786 has 8 MA's), (124, 48633), (127, 48624), (160, 48501), (204, 48342), (206, 48336), (212, 48312), (234, 48204), (240, 48174), (256, 48105), (311, 47967), (317, 47949), (356, 47796), (365, 47754), (376, 47676), (378, 47661), (399, 47523), (460, 47325), (474, 47271), (475, 47268), (491, 47208), (502, 47157), (530, 47088), (543, 47043), (593, 46803), (602, 46761), (603, 46758), (605, 46752), (610, 46734), (634, 46638), (648, 46584), (688, 46440), (692, 46431), (722, 46356), (744, 46281), (759, 46227), (779, 46185), (795, 46137), (824, 46056), (831, 46035), (857, 45945), (871, 45915), (878, 45891), (879, 45888), (930, 45705), (951, 45648),

Gene: Kimchi1738_43 Start: 41039, Stop: 37746, Start Num: 72

Candidate Starts for Kimchi1738_43:

(Start: 72 @41039 has 72 MA's), (80, 40982), (86, 40958), (Start: 89 @40943 has 8 MA's), (90, 40934), (127, 40787), (191, 40505), (204, 40427), (278, 40118), (323, 40013), (347, 39911), (374, 39776), (376, 39758), (378, 39743), (391, 39647), (444, 39428), (445, 39425), (455, 39410), (468, 39380), (474, 39350), (502, 39233), (508, 39200), (525, 39173), (534, 39149), (571, 39002), (582, 38948), (585, 38927), (601, 38852), (603, 38834), (648, 38657), (661, 38627), (667, 38600), (671, 38585), (719, 38456), (746, 38423), (786, 38336), (829, 38222), (831, 38216), (834, 38204), (885, 38054), (886, 38051), (888, 38045), (893, 38027), (895, 38018), (898, 38000), (935, 37874), (946, 37838), (948, 37832),

Gene: Koguma_208 Start: 112391, Stop: 115879, Start Num: 23

Candidate Starts for Koguma_208:

(Start: 18 @112361 has 5 MA's), (Start: 23 @112391 has 44 MA's), (Start: 25 @112397 has 6 MA's), (Start: 32 @112409 has 9 MA's), (38, 112418), (Start: 66 @112484 has 166 MA's), (83, 112559), (104, 112673), (112, 112697), (133, 112757), (162, 112868), (170, 112907), (177, 112931), (185, 112973), (211, 113072), (221, 113114), (222, 113120), (227, 113132), (237, 113195), (251, 113255), (252, 113258), (259, 113285), (272, 113327), (Start: 292 @113390 has 9 MA's), (344, 113510), (351, 113546), (356, 113564), (359, 113579), (373, 113696), (379, 113735), (395, 113855), (403, 113897), (413, 113942), (415, 113951), (428, 114002), (441, 114044), (461, 114110), (464, 114119), (465,

114122), (467, 114128), (468, 114131), (469, 114140), (471, 114146), (474, 114161), (499, 114248), (530, 114353), (541, 114407), (556, 114494), (562, 114524), (572, 114554), (579, 114587), (581, 114596), (592, 114668), (596, 114698), (622, 114815), (632, 114860), (643, 114902), (680, 115046), (702, 115106), (738, 115208), (770, 115295), (772, 115298), (779, 115316), (791, 115352), (792, 115355), (813, 115415), (818, 115433), (851, 115529), (858, 115559), (864, 115577), (876, 115607), (911, 115700), (914, 115715), (939, 115796), (940, 115802), (944, 115814),

Gene: Konstantine_80 Start: 55996, Stop: 59292, Start Num: 72

Candidate Starts for Konstantine_80:

(Start: 50 @55969 has 1 MA's), (Start: 72 @55996 has 72 MA's), (84, 56068), (Start: 89 @56092 has 8 MA's), (92, 56125), (127, 56260), (153, 56353), (158, 56371), (169, 56419), (188, 56479), (233, 56671), (296, 56905), (325, 56962), (338, 57016), (346, 57061), (352, 57088), (358, 57115), (359, 57118), (373, 57196), (378, 57241), (381, 57280), (387, 57322), (401, 57400), (405, 57418), (410, 57436), (412, 57448), (433, 57523), (475, 57679), (496, 57763), (509, 57841), (518, 57862), (520, 57871), (523, 57877), (528, 57886), (550, 57958), (553, 57973), (560, 58012), (564, 58024), (585, 58117), (586, 58123), (594, 58171), (603, 58213), (643, 58363), (646, 58375), (671, 58459), (705, 58600), (742, 58705), (825, 58804), (828, 58813), (852, 58891), (863, 58930), (870, 58945), (885, 58993), (912, 59089), (917, 59107), (926, 59134), (939, 59182), (949, 59212), (950, 59215), (954, 59230), (964, 59260), (966, 59269), (969, 59275), (970, 59278),

Gene: Kors_64 Start: 42629, Stop: 44884, Start Num: 290

Candidate Starts for Kors_64:

(Start: 285 @42620 has 3 MA's), (Start: 290 @42629 has 6 MA's), (348, 42764), (356, 42797), (359, 42812), (376, 42914), (378, 42929), (391, 43025), (405, 43106), (407, 43115), (434, 43214), (435, 43220), (471, 43307), (475, 43325), (481, 43355), (487, 43376), (489, 43388), (493, 43403), (498, 43418), (503, 43451), (508, 43481), (512, 43487), (526, 43508), (530, 43517), (538, 43547), (559, 43628), (564, 43643), (571, 43661), (575, 43676), (590, 43775), (648, 44006), (649, 44009), (666, 44060), (671, 44078), (673, 44090), (681, 44132), (688, 44162), (692, 44171), (724, 44261), (802, 44363), (828, 44414), (842, 44459), (860, 44522), (868, 44546), (879, 44576), (882, 44582), (938, 44771), (953, 44816), (966, 44861), (969, 44867),

Gene: Krampus_57 Start: 41269, Stop: 43572, Start Num: 287

Candidate Starts for Krampus_57:

(Start: 287 @41269 has 29 MA's), (Start: 290 @41275 has 6 MA's), (324, 41353), (344, 41425), (348, 41446), (356, 41479), (358, 41491), (359, 41494), (361, 41512), (375, 41587), (378, 41611), (381, 41650), (388, 41695), (391, 41707), (405, 41788), (435, 41902), (440, 41914), (471, 41989), (475, 42007), (493, 42085), (496, 42091), (498, 42100), (503, 42133), (508, 42163), (512, 42169), (526, 42190), (530, 42199), (538, 42229), (558, 42304), (560, 42313), (570, 42337), (571, 42343), (575, 42358), (580, 42385), (592, 42460), (608, 42532), (614, 42556), (635, 42640), (663, 42730), (666, 42742), (671, 42760), (687, 42838), (688, 42844), (692, 42853), (702, 42886), (729, 42958), (840, 43138), (850, 43168), (868, 43231), (892, 43303), (929, 43426), (938, 43459), (953, 43504), (966, 43549), (969, 43555),

Gene: Kurt_60 Start: 49119, Stop: 45808, Start Num: 72

Candidate Starts for Kurt_60:

(3, 49362), (Start: 72 @49119 has 72 MA's), (84, 49047), (Start: 89 @49023 has 8 MA's), (124, 48870), (127, 48861), (160, 48738), (204, 48579), (206, 48573), (212, 48549), (234, 48441), (240, 48411), (256, 48342), (311, 48204), (317, 48186), (356, 48033), (365, 47991), (376, 47913), (378, 47898), (399, 47760), (460, 47562), (474, 47508), (475, 47505), (491, 47445), (502, 47394), (530, 47325), (543, 47280), (593, 47040), (602, 46998), (603, 46995), (605, 46989), (610, 46971), (634, 46875), (648, 46821), (688, 46677), (692, 46668), (722, 46593), (744, 46518), (759, 46464), (779, 46422), (795, 46374), (824, 46293), (831, 46272), (857, 46182), (871, 46152), (878, 46128), (879, 46125), (930, 45942), (951, 45885),

Gene: LRRHood_202 Start: 112706, Stop: 116224, Start Num: 18

Candidate Starts for LRRHood_202:

(Start: 18 @112706 has 5 MA's), (Start: 23 @112736 has 44 MA's), (Start: 25 @112742 has 6 MA's), (Start: 32 @112754 has 9 MA's), (38, 112763), (Start: 66 @112829 has 166 MA's), (83, 112904), (104, 113018), (112, 113042), (133, 113102), (162, 113213), (170, 113252), (177, 113276), (185, 113318), (211, 113417), (221, 113459), (222, 113465), (227, 113477), (237, 113540), (251, 113600), (252, 113603), (259, 113630), (272, 113672), (Start: 292 @113735 has 9 MA's), (344, 113855), (351, 113891), (356, 113909), (359, 113924), (373, 114041), (379, 114080), (395, 114200), (403, 114242), (413, 114287), (415, 114296), (428, 114347), (441, 114389), (461, 114455), (464, 114464), (465, 114467), (467, 114473), (468, 114476), (469, 114485), (471, 114491), (474, 114506), (499, 114593), (530, 114698), (541, 114752), (556, 114839), (562, 114869), (572, 114899), (579, 114932), (581, 114941), (592, 115013), (596, 115043), (622, 115160), (632, 115205), (643, 115247), (680, 115391), (702, 115451), (738, 115553), (770, 115640), (772, 115643), (779, 115661), (791, 115697), (792, 115700), (813, 115760), (818, 115778), (851, 115874), (858, 115904), (864, 115922), (876, 115952), (911, 116045), (914, 116060), (939, 116141), (940, 116147), (944, 116159),

Gene: Labelle_90 Start: 57766, Stop: 60999, Start Num: 72

Candidate Starts for Labelle_90:

(Start: 52 @57739 has 1 MA's), (Start: 72 @57766 has 72 MA's), (Start: 89 @57862 has 8 MA's), (127, 58027), (159, 58141), (169, 58186), (181, 58225), (198, 58276), (233, 58441), (373, 58939), (378, 58984), (381, 59023), (421, 59227), (444, 59308), (469, 59368), (480, 59419), (502, 59515), (504, 59524), (508, 59548), (509, 59554), (520, 59584), (523, 59590), (528, 59599), (560, 59722), (561, 59725), (564, 59734), (577, 59776), (580, 59794), (603, 59926), (671, 60172), (708, 60322), (729, 60379), (742, 60421), (784, 60445), (829, 60514), (882, 60682), (906, 60772), (926, 60844), (948, 60919),

Gene: Lambo_77 Start: 51507, Stop: 54848, Start Num: 69

Candidate Starts for Lambo_77:

(41, 51459), (Start: 69 @51507 has 20 MA's), (Start: 81 @51567 has 1 MA's), (Start: 89 @51603 has 8 MA's), (94, 51648), (104, 51690), (173, 51951), (204, 52053), (213, 52086), (233, 52182), (304, 52452), (Start: 307 @52461 has 8 MA's), (338, 52569), (346, 52614), (356, 52656), (378, 52788), (379, 52791), (380, 52821), (383, 52842), (395, 52911), (407, 52974), (430, 53064), (435, 53079), (455, 53121), (502, 53295), (508, 53328), (521, 53346), (530, 53364), (543, 53409), (544, 53412), (571, 53508), (580, 53550), (582, 53562), (587, 53598), (629, 53778), (640, 53820), (648, 53856), (666, 53910), (671, 53928), (692, 54024), (695, 54036), (795, 54231), (829, 54315), (853, 54396), (862, 54420), (867, 54435), (879, 54471), (882, 54483), (884, 54489), (885, 54492), (893, 54519), (903, 54564), (935, 54672), (950, 54717), (958, 54741), (969, 54777),

Gene: Lannister_54 Start: 41433, Stop: 37954, Start Num: 66

Candidate Starts for Lannister_54:

(Start: 66 @41433 has 166 MA's), (Start: 81 @41370 has 1 MA's), (83, 41361), (108, 41226), (119, 41193), (126, 41157), (143, 41088), (156, 41034), (174, 40962), (189, 40899), (198, 40866), (226, 40788), (255, 40641), (270, 40602), (282, 40557), (Start: 290 @40536 has 6 MA's), (295, 40521), (313, 40500), (347, 40401), (350, 40389), (365, 40326), (380, 40203), (381, 40197), (404, 40068), (407, 40050), (422, 39993), (423, 39990), (426, 39978), (457, 39882), (469, 39840), (471, 39834), (474, 39819), (476, 39813), (482, 39780), (501, 39717), (504, 39702), (514, 39669), (554, 39552), (558, 39528), (580, 39447), (592, 39372), (602, 39309), (618, 39243), (630, 39204), (645, 39147), (647, 39138), (675, 39030), (678, 39021), (681, 39009), (684, 38988), (697, 38958), (706, 38931), (731, 38865), (733, 38856), (737, 38844), (751, 38781), (765, 38757), (776, 38733), (815, 38595), (816, 38589), (833, 38541), (866, 38430), (905, 38292), (908, 38283), (914, 38256), (928, 38208), (929, 38202), (936, 38175), (978, 38031), (981, 38010),

Gene: Larnav_80 Start: 59147, Stop: 62431, Start Num: 68

Candidate Starts for Larnav_80:

(Start: 68 @59147 has 63 MA's), (78, 59192), (84, 59222), (88, 59240), (Start: 89 @59246 has 8 MA's), (157, 59525), (182, 59627), (214, 59705), (235, 59810), (249, 59873), (250, 59879), (262, 59918), (298, 60035), (330, 60119), (358, 60245), (367, 60275), (371, 60314), (403, 60521), (471, 60701), (497, 60806), (498, 60812), (499, 60818), (521, 60902), (534, 60932), (548, 60974), (554, 61001), (560, 61034), (564, 61046), (580, 61109), (592, 61181), (603, 61235), (606, 61244), (608, 61253), (610, 61262), (612, 61268), (675, 61511), (698, 61580), (702, 61592), (735, 61697), (795, 61892), (807, 61925), (822, 61976), (835, 62021), (855, 62087), (870, 62135), (895, 62216), (896, 62225), (911, 62267), (922, 62312), (923, 62315), (928, 62330),

Gene: Latch_209 Start: 112377, Stop: 115772, Start Num: 66

Candidate Starts for Latch_209:

(Start: 23 @112284 has 44 MA's), (Start: 25 @112290 has 6 MA's), (Start: 32 @112302 has 9 MA's), (38, 112311), (Start: 66 @112377 has 166 MA's), (83, 112452), (104, 112566), (112, 112590), (133, 112650), (162, 112761), (170, 112800), (177, 112824), (185, 112866), (211, 112965), (221, 113007), (222, 113013), (227, 113025), (237, 113088), (251, 113148), (252, 113151), (259, 113178), (272, 113220), (Start: 292 @113283 has 9 MA's), (344, 113403), (351, 113439), (356, 113457), (359, 113472), (373, 113589), (379, 113628), (395, 113748), (403, 113790), (413, 113835), (415, 113844), (428, 113895), (441, 113937), (461, 114003), (464, 114012), (465, 114015), (467, 114021), (468, 114024), (469, 114033), (471, 114039), (474, 114054), (499, 114141), (530, 114246), (541, 114300), (556, 114387), (562, 114417), (572, 114447), (579, 114480), (581, 114489), (592, 114561), (596, 114591), (622, 114708), (632, 114753), (643, 114795), (680, 114939), (702, 114999), (738, 115101), (770, 115188), (772, 115191), (779, 115209), (791, 115245), (792, 115248), (813, 115308), (818, 115326), (851, 115422), (858, 115452), (864, 115470), (876, 115500), (911, 115593), (914, 115608), (939, 115689), (940, 115695), (944, 115707),

Gene: LavAbarElk_78 Start: 51143, Stop: 54484, Start Num: 69

Candidate Starts for LavAbarElk_78:

(43, 51101), (Start: 69 @51143 has 20 MA's), (Start: 81 @51203 has 1 MA's), (Start: 89 @51239 has 8 MA's), (94, 51284), (104, 51326), (173, 51587), (204, 51689), (213, 51722), (233, 51818), (304, 52088), (Start: 307 @52097 has 8 MA's), (338, 52205), (346, 52250), (356, 52292), (378, 52424), (379, 52427), (380, 52457), (383, 52478), (395, 52547), (405, 52601), (430, 52700), (435, 52715), (455, 52757), (502, 52931), (508, 52964), (521, 52982), (530, 53000), (543, 53045), (544, 53048), (571, 53144), (580, 53186), (582, 53198), (587, 53234), (629, 53414), (640, 53456), (648, 53492), (666, 53546), (671, 53564), (692, 53660), (695, 53672), (795, 53867), (829, 53951), (862, 54056), (867, 54071), (879, 54107), (882, 54119), (884, 54125), (885, 54128), (893, 54155), (903, 54200), (935, 54308), (950, 54353), (958, 54377), (969, 54413),

Gene: Lee7_209 Start: 115004, Stop: 118399, Start Num: 66

Candidate Starts for Lee7_209:

(Start: 23 @114911 has 44 MA's), (Start: 25 @114917 has 6 MA's), (Start: 32 @114929 has 9 MA's), (38, 114938), (Start: 66 @115004 has 166 MA's), (83, 115079), (104, 115193), (112, 115217), (133, 115277), (162, 115388), (170, 115427), (177, 115451), (185, 115493), (211, 115592), (221, 115634), (222, 115640), (227, 115652), (237, 115715), (251, 115775), (252, 115778), (259, 115805), (272, 115847), (Start: 292 @115910 has 9 MA's), (344, 116030), (351, 116066), (356, 116084), (359, 116099), (373, 116216), (379, 116255), (395, 116375), (403, 116417), (413, 116462), (415, 116471), (428, 116522), (441, 116564), (461, 116630), (464, 116639), (465, 116642), (467, 116648), (468, 116651), (469, 116660), (471, 116666), (474, 116681), (499, 116768), (530, 116873), (541, 116927), (556, 117014), (562, 117044), (572, 117074), (579, 117107), (581, 117116), (592, 117188), (596, 117218), (622, 117335), (632, 117380), (643, 117422), (680, 117566), (702, 117626), (738, 117728), (770, 117815), (772, 117818), (779, 117836), (791, 117872), (792, 117875), (813, 117935), (818, 117953), (851, 118049), (858, 118079), (864, 118097), (876, 118127), (911, 118220), (914, 118235),

(939, 118316), (940, 118322), (944, 118334),

Gene: Legacy_52 Start: 40331, Stop: 36852, Start Num: 66

Candidate Starts for Legacy_52:

(Start: 66 @40331 has 166 MA's), (83, 40259), (Start: 89 @40232 has 8 MA's), (91, 40217), (126, 40055), (132, 40028), (134, 40022), (156, 39932), (161, 39917), (173, 39863), (174, 39860), (198, 39764), (226, 39686), (255, 39539), (270, 39500), (282, 39455), (Start: 290 @39434 has 6 MA's), (295, 39419), (321, 39377), (326, 39365), (347, 39299), (350, 39287), (365, 39224), (381, 39095), (382, 39086), (388, 39050), (404, 38966), (407, 38948), (422, 38891), (423, 38888), (426, 38876), (469, 38738), (471, 38732), (474, 38717), (476, 38711), (482, 38678), (504, 38600), (514, 38567), (558, 38426), (576, 38369), (580, 38345), (581, 38339), (592, 38270), (602, 38207), (618, 38141), (623, 38120), (630, 38102), (645, 38045), (647, 38036), (675, 37928), (678, 37919), (681, 37907), (684, 37886), (697, 37856), (706, 37829), (731, 37763), (733, 37754), (737, 37742), (765, 37655), (776, 37631), (792, 37583), (833, 37439), (855, 37364), (905, 37190), (914, 37154), (928, 37106), (936, 37073), (978, 36929),

Gene: Lenoshki_97 Start: 71922, Stop: 74735, Start Num: 54

Candidate Starts for Lenoshki_97:

(Start: 46 @71907 has 1 MA's), (Start: 51 @71919 has 2 MA's), (Start: 54 @71922 has 8 MA's), (83, 72015), (92, 72075), (131, 72225), (132, 72228), (134, 72234), (145, 72276), (158, 72333), (163, 72363), (164, 72366), (165, 72369), (180, 72429), (185, 72450), (186, 72453), (193, 72480), (216, 72570), (222, 72597), (226, 72606), (235, 72663), (237, 72672), (273, 72804), (347, 72969), (351, 72987), (355, 73002), (357, 73008), (359, 73020), (367, 73047), (368, 73050), (375, 73110), (376, 73119), (377, 73122), (379, 73134), (382, 73179), (394, 73248), (397, 73272), (432, 73428), (443, 73470), (448, 73488), (475, 73584), (483, 73626), (499, 73668), (500, 73677), (503, 73695), (504, 73701), (508, 73725), (512, 73731), (514, 73734), (521, 73752), (522, 73755), (554, 73848), (564, 73893), (566, 73899), (574, 73923), (575, 73926), (577, 73935), (578, 73941), (580, 73953), (600, 74070), (602, 74088), (603, 74091), (606, 74100), (635, 74214), (639, 74229), (675, 74376), (679, 74388), (681, 74394), (703, 74460), (708, 74478), (712, 74490), (714, 74499), (750, 74613), (754, 74625), (762, 74640), (787, 74715), (791, 74724),

Gene: Leo04_81 Start: 59662, Stop: 62946, Start Num: 68

Candidate Starts for Leo04_81:

(Start: 68 @59662 has 63 MA's), (78, 59707), (84, 59737), (88, 59755), (Start: 89 @59761 has 8 MA's), (157, 60040), (182, 60142), (214, 60220), (235, 60325), (249, 60388), (250, 60394), (262, 60433), (298, 60550), (330, 60634), (358, 60760), (367, 60790), (371, 60829), (372, 60838), (403, 61036), (471, 61216), (497, 61321), (498, 61327), (499, 61333), (521, 61417), (534, 61447), (548, 61489), (554, 61516), (560, 61549), (564, 61561), (580, 61624), (592, 61696), (603, 61750), (606, 61759), (608, 61768), (610, 61777), (612, 61783), (675, 62026), (698, 62095), (702, 62107), (735, 62212), (795, 62407), (807, 62440), (822, 62491), (834, 62530), (835, 62536), (855, 62602), (870, 62650), (881, 62686), (895, 62731), (896, 62740), (911, 62782), (922, 62827), (923, 62830), (928, 62845),

Gene: Leopard_84 Start: 58148, Stop: 60436, Start Num: 285

Candidate Starts for Leopard_84:

(247, 58025), (Start: 285 @58148 has 3 MA's), (304, 58181), (306, 58187), (338, 58277), (344, 58310), (349, 58334), (355, 58361), (371, 58445), (372, 58454), (373, 58457), (378, 58496), (379, 58499), (383, 58550), (397, 58628), (399, 58640), (469, 58868), (474, 58889), (491, 58952), (496, 58964), (508, 59036), (512, 59042), (528, 59066), (530, 59072), (535, 59087), (538, 59102), (544, 59120), (552, 59144), (560, 59186), (573, 59225), (580, 59258), (612, 59420), (614, 59429), (648, 59564), (660, 59591), (671, 59636), (701, 59750), (724, 59810), (849, 60026), (880, 60113), (881, 60116), (893, 60158), (939, 60323), (948, 60353), (963, 60401), (966, 60413), (971, 60428),

Gene: Lethe_211 Start: 114267, Stop: 117662, Start Num: 66

Candidate Starts for Lethe_211:

(Start: 23 @114174 has 44 MA's), (Start: 25 @114180 has 6 MA's), (Start: 32 @114192 has 9 MA's), (38, 114201), (Start: 66 @114267 has 166 MA's), (83, 114342), (104, 114456), (112, 114480), (133, 114540), (162, 114651), (170, 114690), (177, 114714), (185, 114756), (211, 114855), (221, 114897), (222, 114903), (227, 114915), (237, 114978), (251, 115038), (252, 115041), (259, 115068), (272, 115110), (Start: 292 @115173 has 9 MA's), (344, 115293), (351, 115329), (356, 115347), (359, 115362), (373, 115479), (379, 115518), (395, 115638), (403, 115680), (413, 115725), (415, 115734), (428, 115785), (441, 115827), (461, 115893), (464, 115902), (465, 115905), (467, 115911), (468, 115914), (469, 115923), (471, 115929), (474, 115944), (499, 116031), (530, 116136), (541, 116190), (556, 116277), (562, 116307), (572, 116337), (579, 116370), (581, 116379), (592, 116451), (596, 116481), (622, 116598), (632, 116643), (643, 116685), (680, 116829), (702, 116889), (738, 116991), (770, 117078), (772, 117081), (779, 117099), (791, 117135), (792, 117138), (813, 117198), (818, 117216), (851, 117312), (858, 117342), (864, 117360), (876, 117390), (911, 117483), (914, 117498), (939, 117579), (940, 117585), (944, 117597),

Gene: Leviticus_53 Start: 40239, Stop: 36760, Start Num: 66

Candidate Starts for Leviticus_53:

(1, 40500), (Start: 66 @40239 has 166 MA's), (83, 40167), (Start: 89 @40140 has 8 MA's), (91, 40125), (126, 39963), (132, 39936), (134, 39930), (156, 39840), (161, 39825), (173, 39771), (174, 39768), (198, 39672), (226, 39594), (255, 39447), (270, 39408), (282, 39363), (Start: 290 @39342 has 6 MA's), (295, 39327), (321, 39285), (326, 39273), (347, 39207), (350, 39195), (365, 39132), (381, 39003), (382, 38994), (388, 38958), (404, 38874), (407, 38856), (422, 38799), (423, 38796), (426, 38784), (469, 38646), (471, 38640), (474, 38625), (476, 38619), (482, 38586), (504, 38508), (514, 38475), (558, 38334), (576, 38277), (580, 38253), (581, 38247), (592, 38178), (602, 38115), (618, 38049), (623, 38028), (630, 38010), (645, 37953), (647, 37944), (675, 37836), (678, 37827), (681, 37815), (684, 37794), (697, 37764), (706, 37737), (731, 37671), (733, 37662), (737, 37650), (765, 37563), (776, 37539), (792, 37491), (833, 37347), (855, 37272), (905, 37098), (914, 37062), (928, 37014), (936, 36981),

Gene: Liandry_78 Start: 58566, Stop: 61850, Start Num: 68

Candidate Starts for Liandry_78:

(Start: 68 @58566 has 63 MA's), (78, 58611), (84, 58641), (88, 58659), (Start: 89 @58665 has 8 MA's), (100, 58731), (157, 58944), (160, 58950), (182, 59046), (214, 59124), (235, 59229), (249, 59292), (250, 59298), (262, 59337), (298, 59454), (334, 59553), (358, 59664), (367, 59694), (371, 59733), (411, 59976), (471, 60120), (474, 60135), (498, 60231), (499, 60237), (502, 60261), (521, 60321), (543, 60384), (548, 60393), (564, 60465), (580, 60528), (592, 60600), (603, 60654), (606, 60663), (608, 60672), (610, 60681), (612, 60687), (632, 60768), (663, 60867), (675, 60930), (698, 60999), (702, 61011), (753, 61197), (760, 61215), (795, 61311), (807, 61344), (822, 61395), (834, 61434), (835, 61440), (855, 61506), (864, 61536), (870, 61554), (881, 61590), (895, 61635), (896, 61644), (901, 61665), (911, 61686), (923, 61734), (928, 61749),

Gene: LifeSavor_208 Start: 112809, Stop: 116297, Start Num: 23

Candidate Starts for LifeSavor_208:

(Start: 23 @112809 has 44 MA's), (Start: 25 @112815 has 6 MA's), (Start: 32 @112827 has 9 MA's), (38, 112836), (Start: 66 @112902 has 166 MA's), (83, 112977), (104, 113091), (112, 113115), (133, 113175), (162, 113286), (170, 113325), (177, 113349), (185, 113391), (211, 113490), (221, 113532), (222, 113538), (227, 113550), (237, 113613), (251, 113673), (252, 113676), (259, 113703), (272, 113745), (Start: 292 @113808 has 9 MA's), (351, 113964), (356, 113982), (359, 113997), (373, 114114), (379, 114153), (395, 114273), (403, 114315), (413, 114360), (415, 114369), (428, 114420), (441, 114462), (461, 114528), (464, 114537), (465, 114540), (467, 114546), (468, 114549), (469, 114558), (471, 114564), (474, 114579), (499, 114666), (530, 114771), (541, 114825), (556, 114912), (562, 114942), (572, 114972), (579, 115005), (581, 115014), (592, 115086), (596, 115116), (622, 115233), (632, 115278), (643, 115320), (680, 115464), (702, 115524), (738, 115626), (770, 115713),

(772, 115716), (779, 115734), (791, 115770), (792, 115773), (813, 115833), (818, 115851), (851, 115947), (858, 115977), (864, 115995), (876, 116025), (911, 116118), (914, 116133), (939, 116214), (940, 116220), (944, 116232),

Gene: Lika_54 Start: 41758, Stop: 38282, Start Num: 72

Candidate Starts for Lika_54:

(Start: 72 @41758 has 72 MA's), (83, 41689), (Start: 89 @41662 has 8 MA's), (91, 41647), (92, 41629), (105, 41572), (106, 41566), (126, 41485), (132, 41458), (134, 41452), (143, 41416), (150, 41380), (174, 41290), (198, 41194), (226, 41116), (255, 40969), (270, 40930), (277, 40903), (282, 40885), (Start: 290 @40864 has 6 MA's), (295, 40849), (347, 40729), (350, 40717), (380, 40531), (381, 40525), (388, 40480), (404, 40396), (407, 40378), (422, 40321), (423, 40318), (426, 40306), (469, 40168), (471, 40162), (474, 40147), (476, 40141), (482, 40108), (485, 40102), (504, 40030), (514, 39997), (558, 39856), (580, 39775), (581, 39769), (592, 39700), (602, 39637), (608, 39616), (618, 39571), (630, 39532), (645, 39475), (647, 39466), (675, 39358), (681, 39337), (684, 39316), (697, 39286), (706, 39259), (731, 39193), (733, 39184), (737, 39172), (765, 39085), (776, 39061), (833, 38869), (857, 38785), (866, 38758), (905, 38620), (908, 38611), (914, 38584), (928, 38536), (929, 38530), (934, 38509), (936, 38503), (968, 38398), (978, 38359), (979, 38353), (985, 38296),

Gene: LilMartin_77 Start: 57396, Stop: 60680, Start Num: 68

Candidate Starts for LilMartin_77:

(33, 57312), (42, 57339), (Start: 68 @57396 has 63 MA's), (78, 57441), (84, 57471), (88, 57489), (Start: 89 @57495 has 8 MA's), (157, 57774), (182, 57876), (214, 57954), (216, 57966), (235, 58059), (249, 58122), (250, 58128), (262, 58167), (298, 58284), (317, 58323), (334, 58383), (358, 58494), (367, 58524), (377, 58602), (407, 58791), (413, 58815), (418, 58836), (471, 58950), (474, 58965), (497, 59055), (498, 59061), (499, 59067), (502, 59091), (503, 59094), (521, 59151), (535, 59184), (543, 59214), (548, 59223), (564, 59295), (567, 59304), (580, 59358), (592, 59430), (603, 59484), (606, 59493), (608, 59502), (610, 59511), (612, 59517), (632, 59598), (675, 59760), (698, 59829), (702, 59841), (738, 59955), (819, 60216), (822, 60225), (855, 60336), (870, 60384), (895, 60465), (911, 60516), (923, 60564), (928, 60579),

Gene: Lila22_79 Start: 52415, Stop: 55756, Start Num: 69

Candidate Starts for Lila22_79:

(41, 52367), (Start: 69 @52415 has 20 MA's), (Start: 81 @52475 has 1 MA's), (Start: 89 @52511 has 8 MA's), (94, 52556), (104, 52598), (173, 52859), (204, 52961), (213, 52994), (233, 53090), (304, 53360), (Start: 307 @53369 has 8 MA's), (338, 53477), (346, 53522), (356, 53564), (378, 53696), (379, 53699), (380, 53729), (383, 53750), (395, 53819), (405, 53873), (430, 53972), (435, 53987), (455, 54029), (502, 54203), (508, 54236), (521, 54254), (530, 54272), (543, 54317), (544, 54320), (571, 54416), (580, 54458), (582, 54470), (587, 54506), (629, 54686), (640, 54728), (648, 54764), (666, 54818), (671, 54836), (692, 54932), (695, 54944), (795, 55139), (829, 55223), (862, 55328), (867, 55343), (879, 55379), (882, 55391), (884, 55397), (885, 55400), (893, 55427), (903, 55472), (935, 55580), (950, 55625), (958, 55649), (969, 55685),

Gene: LilyPad_66 Start: 48330, Stop: 50759, Start Num: 307

Candidate Starts for LilyPad_66:

(Start: 307 @48330 has 8 MA's), (312, 48348), (324, 48381), (376, 48642), (378, 48657), (395, 48780), (435, 48948), (508, 49203), (512, 49209), (526, 49230), (530, 49239), (553, 49314), (554, 49320), (582, 49437), (584, 49452), (585, 49458), (590, 49497), (602, 49551), (625, 49644), (666, 49785), (671, 49803), (685, 49878), (691, 49896), (693, 49902), (695, 49911), (703, 49932), (706, 49944), (817, 50199), (829, 50235), (831, 50241), (832, 50244), (853, 50319), (855, 50325), (873, 50382), (884, 50421), (893, 50451), (906, 50505), (912, 50520), (927, 50568), (943, 50628), (952, 50655), (967, 50706), (975, 50724),

Gene: Limpid_57 Start: 47705, Stop: 50995, Start Num: 68

Candidate Starts for Limpid_57:

(Start: 68 @47705 has 63 MA's), (84, 47777), (88, 47795), (Start: 89 @47801 has 8 MA's), (157, 48080), (172, 48140), (235, 48365), (249, 48428), (255, 48455), (260, 48470), (262, 48473), (358, 48800), (464, 49229), (471, 49256), (482, 49310), (498, 49367), (499, 49373), (548, 49529), (554, 49556), (564, 49601), (580, 49664), (590, 49733), (592, 49736), (603, 49790), (606, 49799), (608, 49808), (610, 49817), (612, 49823), (643, 49937), (666, 50015), (672, 50039), (678, 50075), (698, 50135), (700, 50141), (737, 50258), (751, 50327), (799, 50456), (804, 50468), (820, 50525), (822, 50531), (855, 50642), (857, 50651), (864, 50672), (874, 50702), (881, 50726), (885, 50735), (911, 50822), (925, 50873), (928, 50885), (953, 50972),

Gene: LinStu_208 Start: 113041, Stop: 116511, Start Num: 32

Candidate Starts for LinStu_208:

(Start: 23 @113023 has 44 MA's), (Start: 25 @113029 has 6 MA's), (Start: 32 @113041 has 9 MA's), (38, 113050), (Start: 66 @113116 has 166 MA's), (83, 113191), (104, 113305), (112, 113329), (133, 113389), (162, 113500), (170, 113539), (177, 113563), (185, 113605), (211, 113704), (221, 113746), (222, 113752), (227, 113764), (237, 113827), (251, 113887), (252, 113890), (259, 113917), (272, 113959), (Start: 292 @114022 has 9 MA's), (344, 114142), (351, 114178), (356, 114196), (359, 114211), (373, 114328), (379, 114367), (395, 114487), (403, 114529), (413, 114574), (415, 114583), (428, 114634), (441, 114676), (461, 114742), (464, 114751), (465, 114754), (467, 114760), (468, 114763), (469, 114772), (471, 114778), (474, 114793), (499, 114880), (530, 114985), (541, 115039), (556, 115126), (562, 115156), (572, 115186), (579, 115219), (581, 115228), (592, 115300), (596, 115330), (622, 115447), (632, 115492), (643, 115534), (680, 115678), (702, 115738), (738, 115840), (770, 115927), (772, 115930), (779, 115948), (791, 115984), (792, 115987), (813, 116047), (818, 116065), (851, 116161), (858, 116191), (864, 116209), (876, 116239), (911, 116332), (914, 116347), (939, 116428), (940, 116434), (944, 116446),

Gene: LittleFella_70 Start: 49071, Stop: 51476, Start Num: 303

Candidate Starts for LittleFella_70:

(281, 48999), (300, 49056), (Start: 303 @49071 has 1 MA's), (328, 49152), (356, 49299), (376, 49416), (378, 49431), (435, 49722), (446, 49752), (464, 49782), (475, 49827), (493, 49899), (508, 49977), (512, 49983), (526, 50004), (530, 50013), (582, 50211), (623, 50412), (625, 50418), (666, 50559), (667, 50562), (671, 50577), (685, 50652), (691, 50670), (693, 50676), (701, 50703), (703, 50706), (706, 50718), (777, 50859), (820, 50979), (829, 51006), (884, 51165), (888, 51177), (893, 51195), (906, 51249), (916, 51279), (917, 51282), (948, 51387), (969, 51453), (970, 51456), (972, 51462),

Gene: Littleton_212 Start: 113521, Stop: 117009, Start Num: 23

Candidate Starts for Littleton_212:

(Start: 23 @113521 has 44 MA's), (Start: 25 @113527 has 6 MA's), (Start: 32 @113539 has 9 MA's), (38, 113548), (Start: 66 @113614 has 166 MA's), (83, 113689), (104, 113803), (112, 113827), (133, 113887), (162, 113998), (170, 114037), (177, 114061), (185, 114103), (211, 114202), (221, 114244), (222, 114250), (227, 114262), (237, 114325), (251, 114385), (252, 114388), (259, 114415), (272, 114457), (Start: 292 @114520 has 9 MA's), (344, 114640), (351, 114676), (356, 114694), (359, 114709), (373, 114826), (379, 114865), (395, 114985), (403, 115027), (413, 115072), (415, 115081), (428, 115132), (441, 115174), (461, 115240), (464, 115249), (465, 115252), (467, 115258), (468, 115261), (469, 115270), (471, 115276), (474, 115291), (499, 115378), (530, 115483), (541, 115537), (556, 115624), (562, 115654), (572, 115684), (579, 115717), (581, 115726), (592, 115798), (596, 115828), (622, 115945), (632, 115990), (643, 116032), (680, 116176), (702, 116236), (738, 116338), (770, 116425), (772, 116428), (779, 116446), (791, 116482), (792, 116485), (813, 116545), (818, 116563), (851, 116659), (858, 116689), (864, 116707), (876, 116737), (911, 116830), (914, 116845), (939, 116926), (940, 116932), (944, 116944),

Gene: Lizz_51 Start: 38864, Stop: 35667, Start Num: 72

Candidate Starts for Lizz_51:

(Start: 37 @38945 has 2 MA's), (58, 38885), (Start: 72 @38864 has 72 MA's), (73, 38855), (78, 38822), (Start: 89 @38768 has 8 MA's), (97, 38714), (102, 38690), (114, 38645), (117, 38636), (120, 38627), (128, 38597), (137, 38564), (154, 38486), (157, 38474), (170, 38420), (171, 38417), (200, 38333), (233, 38177), (241, 38135), (254, 38072), (255, 38069), (Start: 287 @37964 has 29 MA's), (291, 37955), (310, 37913), (316, 37898), (321, 37883), (356, 37757), (371, 37676), (376, 37640), (378, 37625), (379, 37622), (391, 37529), (407, 37439), (474, 37232), (481, 37199), (496, 37148), (508, 37076), (512, 37070), (530, 37040), (538, 37010), (559, 36929), (564, 36914), (588, 36800), (617, 36665), (661, 36521), (663, 36509), (666, 36497), (671, 36479), (688, 36386), (724, 36281), (817, 36170), (825, 36146), (859, 36029), (916, 35858), (919, 35846), (927, 35825), (949, 35747), (951, 35741), (962, 35705), (966, 35690),

Gene: Loanshark_206 Start: 112939, Stop: 116334, Start Num: 66

Candidate Starts for Loanshark_206:

(Start: 23 @112846 has 44 MA's), (Start: 25 @112852 has 6 MA's), (Start: 32 @112864 has 9 MA's), (38, 112873), (Start: 66 @112939 has 166 MA's), (83, 113014), (104, 113128), (112, 113152), (133, 113212), (162, 113323), (170, 113362), (177, 113386), (185, 113428), (211, 113527), (221, 113569), (222, 113575), (227, 113587), (237, 113650), (251, 113710), (252, 113713), (259, 113740), (272, 113782), (Start: 292 @113845 has 9 MA's), (344, 113965), (351, 114001), (356, 114019), (359, 114034), (373, 114151), (379, 114190), (395, 114310), (403, 114352), (413, 114397), (415, 114406), (428, 114457), (441, 114499), (461, 114565), (464, 114574), (465, 114577), (467, 114583), (468, 114586), (469, 114595), (471, 114601), (474, 114616), (499, 114703), (530, 114808), (541, 114862), (556, 114949), (562, 114979), (572, 115009), (579, 115042), (581, 115051), (592, 115123), (596, 115153), (622, 115270), (632, 115315), (643, 115357), (680, 115501), (702, 115561), (738, 115663), (770, 115750), (772, 115753), (779, 115771), (791, 115807), (792, 115810), (813, 115870), (818, 115888), (851, 115984), (858, 116014), (864, 116032), (876, 116062), (911, 116155), (914, 116170), (939, 116251), (940, 116257), (944, 116269),

Gene: LolaVinca_207 Start: 114169, Stop: 117564, Start Num: 66

Candidate Starts for LolaVinca_207:

(Start: 23 @114076 has 44 MA's), (Start: 25 @114082 has 6 MA's), (Start: 32 @114094 has 9 MA's), (38, 114103), (Start: 66 @114169 has 166 MA's), (83, 114244), (104, 114358), (112, 114382), (133, 114442), (162, 114553), (170, 114592), (177, 114616), (185, 114658), (211, 114757), (221, 114799), (222, 114805), (227, 114817), (237, 114880), (251, 114940), (252, 114943), (259, 114970), (272, 115012), (Start: 292 @115075 has 9 MA's), (351, 115231), (356, 115249), (359, 115264), (373, 115381), (379, 115420), (395, 115540), (403, 115582), (413, 115627), (415, 115636), (428, 115687), (441, 115729), (461, 115795), (464, 115804), (465, 115807), (467, 115813), (468, 115816), (469, 115825), (471, 115831), (474, 115846), (499, 115933), (530, 116038), (541, 116092), (556, 116179), (562, 116209), (572, 116239), (579, 116272), (581, 116281), (592, 116353), (596, 116383), (622, 116500), (632, 116545), (643, 116587), (680, 116731), (702, 116791), (738, 116893), (770, 116980), (772, 116983), (779, 117001), (791, 117037), (792, 117040), (813, 117100), (818, 117118), (851, 117214), (858, 117244), (864, 117262), (876, 117292), (911, 117385), (914, 117400), (939, 117481), (940, 117487), (944, 117499),

Gene: Lollipop1437_64 Start: 49866, Stop: 46552, Start Num: 72

Candidate Starts for Lollipop1437_64:

(Start: 72 @49866 has 72 MA's), (Start: 89 @49770 has 8 MA's), (124, 49617), (127, 49608), (160, 49485), (204, 49326), (206, 49320), (234, 49188), (261, 49077), (284, 48996), (311, 48951), (356, 48780), (365, 48738), (376, 48660), (378, 48645), (399, 48507), (460, 48309), (484, 48207), (502, 48141), (521, 48090), (530, 48072), (543, 48027), (593, 47784), (602, 47742), (603, 47739), (605, 47733), (610, 47715), (634, 47619), (640, 47601), (648, 47565), (688, 47421), (692, 47412), (699, 47388), (708, 47361), (722, 47337), (759, 47208), (795, 47118), (799, 47109), (817, 47058), (824, 47037), (831, 47016), (884, 46860), (889, 46845), (939, 46665), (962, 46596),

Gene: LordBart_63 Start: 42526, Stop: 44781, Start Num: 290

Candidate Starts for LordBart_63:

(Start: 285 @42517 has 3 MA's), (Start: 290 @42526 has 6 MA's), (348, 42661), (356, 42694), (359, 42709), (367, 42736), (376, 42811), (378, 42826), (391, 42922), (405, 43003), (407, 43012), (434, 43111), (435, 43117), (471, 43204), (475, 43222), (481, 43252), (487, 43273), (489, 43285), (493, 43300), (498, 43315), (503, 43348), (508, 43378), (512, 43384), (526, 43405), (530, 43414), (538, 43444), (559, 43525), (564, 43540), (571, 43558), (575, 43573), (590, 43672), (648, 43903), (666, 43957), (671, 43975), (673, 43987), (688, 44059), (692, 44068), (801, 44257), (802, 44260), (817, 44278), (828, 44311), (842, 44356), (860, 44419), (868, 44443), (879, 44473), (904, 44563), (929, 44635), (938, 44668), (953, 44713), (964, 44749), (966, 44758), (969, 44764),

Gene: LordLeafolot_211 Start: 113782, Stop: 117177, Start Num: 66

Candidate Starts for LordLeafolot_211:

(Start: 23 @113689 has 44 MA's), (Start: 25 @113695 has 6 MA's), (Start: 32 @113707 has 9 MA's), (38, 113716), (Start: 66 @113782 has 166 MA's), (83, 113857), (104, 113971), (112, 113995), (133, 114055), (162, 114166), (170, 114205), (177, 114229), (185, 114271), (211, 114370), (221, 114412), (222, 114418), (227, 114430), (237, 114493), (251, 114553), (252, 114556), (259, 114583), (272, 114625), (Start: 292 @114688 has 9 MA's), (351, 114844), (356, 114862), (359, 114877), (373, 114994), (379, 115033), (395, 115153), (403, 115195), (413, 115240), (415, 115249), (428, 115300), (441, 115342), (461, 115408), (464, 115417), (465, 115420), (467, 115426), (468, 115429), (469, 115438), (471, 115444), (474, 115459), (499, 115546), (530, 115651), (541, 115705), (556, 115792), (562, 115822), (572, 115852), (579, 115885), (581, 115894), (592, 115966), (596, 115996), (622, 116113), (632, 116158), (643, 116200), (680, 116344), (702, 116404), (738, 116506), (770, 116593), (772, 116596), (779, 116614), (791, 116650), (792, 116653), (813, 116713), (818, 116731), (851, 116827), (858, 116857), (864, 116875), (876, 116905), (911, 116998), (914, 117013), (939, 117094), (940, 117100), (944, 117112),

Gene: Lorelei_55 Start: 41564, Stop: 38013, Start Num: 32

Candidate Starts for Lorelei_55:

(Start: 32 @41564 has 9 MA's), (Start: 66 @41495 has 166 MA's), (Start: 81 @41432 has 1 MA's), (83, 41423), (91, 41381), (108, 41288), (126, 41219), (143, 41150), (156, 41096), (174, 41024), (182, 40988), (198, 40928), (226, 40850), (255, 40703), (270, 40664), (277, 40637), (282, 40619), (Start: 290 @40598 has 6 MA's), (295, 40583), (347, 40463), (350, 40451), (380, 40265), (381, 40259), (388, 40214), (404, 40130), (407, 40112), (422, 40055), (423, 40052), (426, 40040), (469, 39902), (471, 39896), (474, 39881), (476, 39875), (482, 39842), (504, 39764), (514, 39731), (554, 39614), (558, 39590), (580, 39509), (581, 39503), (592, 39434), (602, 39371), (608, 39350), (618, 39305), (630, 39266), (645, 39209), (647, 39200), (675, 39092), (681, 39071), (684, 39050), (697, 39020), (706, 38993), (731, 38927), (733, 38918), (737, 38906), (765, 38819), (776, 38795), (807, 38699), (833, 38603), (857, 38519), (866, 38492), (905, 38354), (908, 38345), (914, 38318), (928, 38270), (929, 38264), (934, 38243), (936, 38237), (968, 38132), (976, 38105), (978, 38093),

Gene: LuckyLeo_75 Start: 51198, Stop: 54536, Start Num: 69

Candidate Starts for LuckyLeo_75:

(Start: 69 @51198 has 20 MA's), (Start: 81 @51258 has 1 MA's), (84, 51270), (Start: 89 @51294 has 8 MA's), (104, 51381), (213, 51777), (233, 51873), (259, 51996), (304, 52143), (Start: 307 @52152 has 8 MA's), (Start: 315 @52185 has 1 MA's), (328, 52221), (338, 52263), (346, 52308), (356, 52350), (378, 52482), (379, 52485), (380, 52515), (388, 52566), (393, 52587), (395, 52605), (407, 52668), (430, 52758), (435, 52773), (442, 52794), (502, 52989), (508, 53022), (521, 53040), (543, 53103), (544, 53106), (559, 53169), (571, 53202), (580, 53244), (582, 53256), (587, 53292), (612, 53406), (629, 53472), (635, 53499), (640, 53514), (648, 53550), (666, 53604), (671, 53622), (692, 53718), (699, 53742), (730, 53814), (832, 54018), (867, 54129), (873, 54144), (879, 54165), (882, 54177), (884, 54183), (885, 54186), (893, 54213), (903, 54258), (935, 54366), (948, 54405), (950, 54411), (958, 54435), (962, 54450), (964, 54456), (969, 54471),

Gene: LukeCage_81 Start: 58309, Stop: 61629, Start Num: 67

Candidate Starts for LukeCage_81:

(Start: 67 @58309 has 30 MA's), (79, 58360), (84, 58381), (Start: 89 @58405 has 8 MA's), (103, 58486), (157, 58684), (214, 58864), (226, 58912), (227, 58915), (235, 58969), (245, 59020), (249, 59038), (251, 59047), (262, 59083), (298, 59200), (358, 59410), (371, 59479), (411, 59722), (418, 59752), (469, 59884), (499, 60007), (521, 60091), (548, 60163), (592, 60367), (603, 60421), (606, 60430), (610, 60448), (612, 60454), (666, 60646), (672, 60670), (675, 60697), (706, 60805), (738, 60904), (747, 60949), (755, 60982), (760, 60994), (790, 61072), (806, 61114), (809, 61132), (822, 61174), (834, 61213), (835, 61219), (845, 61246), (855, 61285), (870, 61333), (873, 61342), (895, 61414), (897, 61426), (899, 61435), (907, 61462), (911, 61465), (922, 61510), (923, 61513), (938, 61567), (942, 61582),

Gene: Lukilu_200 Start: 113716, Stop: 117234, Start Num: 18

Candidate Starts for Lukilu_200:

(Start: 18 @113716 has 5 MA's), (Start: 23 @113746 has 44 MA's), (Start: 25 @113752 has 6 MA's), (Start: 32 @113764 has 9 MA's), (38, 113773), (Start: 66 @113839 has 166 MA's), (83, 113914), (104, 114028), (112, 114052), (133, 114112), (162, 114223), (170, 114262), (177, 114286), (185, 114328), (211, 114427), (221, 114469), (222, 114475), (227, 114487), (237, 114550), (251, 114610), (252, 114613), (259, 114640), (272, 114682), (Start: 292 @114745 has 9 MA's), (344, 114865), (351, 114901), (356, 114919), (359, 114934), (373, 115051), (379, 115090), (395, 115210), (403, 115252), (413, 115297), (415, 115306), (428, 115357), (441, 115399), (461, 115465), (464, 115474), (465, 115477), (467, 115483), (468, 115486), (469, 115495), (471, 115501), (474, 115516), (499, 115603), (530, 115708), (541, 115762), (556, 115849), (562, 115879), (572, 115909), (579, 115942), (581, 115951), (592, 116023), (596, 116053), (622, 116170), (632, 116215), (643, 116257), (680, 116401), (702, 116461), (738, 116563), (770, 116650), (772, 116653), (779, 116671), (791, 116707), (792, 116710), (813, 116770), (818, 116788), (851, 116884), (858, 116914), (864, 116932), (876, 116962), (911, 117055), (914, 117070), (939, 117151), (940, 117157), (944, 117169),

Gene: Lululemon_79 Start: 58543, Stop: 61827, Start Num: 68

Candidate Starts for Lululemon_79:

(Start: 68 @58543 has 63 MA's), (78, 58588), (84, 58618), (88, 58636), (Start: 89 @58642 has 8 MA's), (157, 58921), (182, 59023), (214, 59101), (235, 59206), (249, 59269), (250, 59275), (262, 59314), (298, 59431), (330, 59515), (358, 59641), (367, 59671), (371, 59710), (372, 59719), (403, 59917), (471, 60097), (497, 60202), (498, 60208), (499, 60214), (521, 60298), (534, 60328), (548, 60370), (554, 60397), (560, 60430), (564, 60442), (580, 60505), (592, 60577), (603, 60631), (606, 60640), (608, 60649), (610, 60658), (612, 60664), (675, 60907), (698, 60976), (702, 60988), (735, 61093), (795, 61288), (807, 61321), (822, 61372), (834, 61411), (835, 61417), (855, 61483), (870, 61531), (881, 61567), (895, 61612), (896, 61621), (911, 61663), (922, 61708), (923, 61711), (928, 61726),

Gene: Maby2021_209 Start: 114068, Stop: 117463, Start Num: 66

Candidate Starts for Maby2021_209:

(Start: 23 @113975 has 44 MA's), (Start: 25 @113981 has 6 MA's), (Start: 32 @113993 has 9 MA's), (38, 114002), (Start: 66 @114068 has 166 MA's), (83, 114143), (104, 114257), (112, 114281), (133, 114341), (162, 114452), (170, 114491), (177, 114515), (185, 114557), (211, 114656), (221, 114698), (222, 114704), (227, 114716), (237, 114779), (251, 114839), (252, 114842), (259, 114869), (272, 114911), (Start: 292 @114974 has 9 MA's), (351, 115130), (356, 115148), (359, 115163), (373, 115280), (379, 115319), (395, 115439), (403, 115481), (413, 115526), (415, 115535), (428, 115586), (441, 115628), (461, 115694), (464, 115703), (465, 115706), (467, 115712), (468, 115715), (469, 115724), (471, 115730), (474, 115745), (499, 115832), (530, 115937), (541, 115991), (556, 116078), (562, 116108), (572, 116138), (579, 116171), (581, 116180), (592, 116252), (596, 116282), (622, 116399), (632, 116444), (643, 116486), (680, 116630), (702, 116690), (738, 116792), (770, 116879), (772, 116882), (779, 116900), (791, 116936), (792, 116939), (813, 116999), (818, 117017), (851,

117113), (858, 117143), (864, 117161), (876, 117191), (911, 117284), (914, 117299), (939, 117380), (940, 117386), (944, 117398),

Gene: MacGully_67 Start: 47987, Stop: 45444, Start Num: 302

Candidate Starts for MacGully_67:

(93, 48773), (166, 48497), (203, 48371), (224, 48290), (Start: 302 @47987 has 1 MA's), (337, 47864), (340, 47858), (376, 47660), (378, 47645), (404, 47483), (405, 47474), (419, 47417), (474, 47258), (508, 47108), (521, 47090), (525, 47081), (536, 47045), (543, 47024), (550, 47009), (582, 46808), (592, 46742), (602, 46691), (603, 46688), (605, 46682), (610, 46664), (634, 46568), (640, 46550), (648, 46514), (666, 46460), (671, 46442), (672, 46436), (674, 46418), (692, 46349), (695, 46337), (701, 46319), (733, 46229), (768, 46097), (780, 46064), (803, 46001), (817, 45947), (878, 45761), (892, 45719), (919, 45620), (927, 45599), (928, 45593), (948, 45524), (971, 45449),

Gene: Madi_65 Start: 47552, Stop: 49987, Start Num: 307

Candidate Starts for Madi_65:

(Start: 303 @47537 has 1 MA's), (Start: 307 @47552 has 8 MA's), (312, 47570), (344, 47693), (357, 47750), (376, 47864), (378, 47879), (435, 48170), (471, 48257), (501, 48386), (508, 48425), (512, 48431), (526, 48452), (530, 48461), (582, 48659), (584, 48674), (585, 48680), (592, 48722), (606, 48785), (612, 48809), (625, 48866), (632, 48890), (643, 48929), (663, 48995), (666, 49007), (671, 49025), (691, 49118), (695, 49133), (707, 49169), (743, 49271), (831, 49463), (832, 49466), (853, 49541), (855, 49547), (873, 49604), (881, 49631), (884, 49643), (906, 49727), (916, 49757), (935, 49826), (943, 49850), (948, 49865), (964, 49916), (967, 49928), (969, 49931), (975, 49946), (982, 49982),

Gene: Madruga_89 Start: 57366, Stop: 60599, Start Num: 72

Candidate Starts for Madruga_89:

(Start: 52 @57339 has 1 MA's), (Start: 72 @57366 has 72 MA's), (Start: 89 @57462 has 8 MA's), (127, 57627), (159, 57741), (169, 57786), (181, 57825), (198, 57876), (233, 58041), (373, 58539), (378, 58584), (381, 58623), (421, 58827), (444, 58908), (469, 58968), (480, 59019), (502, 59115), (504, 59124), (508, 59148), (509, 59154), (520, 59184), (523, 59190), (560, 59322), (561, 59325), (564, 59334), (577, 59376), (580, 59394), (603, 59526), (671, 59772), (708, 59922), (729, 59979), (742, 60021), (784, 60045), (829, 60114), (882, 60282), (906, 60372), (926, 60444), (948, 60519),

Gene: Maneekul_54 Start: 42498, Stop: 39013, Start Num: 66

Candidate Starts for Maneekul_54:

(Start: 66 @42498 has 166 MA's), (Start: 81 @42435 has 1 MA's), (83, 42426), (91, 42384), (108, 42291), (126, 42222), (143, 42153), (156, 42099), (174, 42027), (182, 41991), (198, 41931), (255, 41706), (270, 41667), (277, 41640), (282, 41622), (Start: 290 @41601 has 6 MA's), (295, 41586), (321, 41544), (347, 41466), (350, 41454), (380, 41268), (381, 41262), (388, 41217), (404, 41133), (407, 41115), (422, 41058), (423, 41055), (426, 41043), (451, 40971), (469, 40905), (471, 40899), (474, 40884), (476, 40878), (482, 40845), (504, 40767), (514, 40734), (558, 40593), (580, 40512), (581, 40506), (592, 40437), (602, 40374), (608, 40353), (618, 40308), (645, 40212), (647, 40203), (649, 40197), (675, 40095), (678, 40086), (681, 40074), (684, 40053), (697, 40023), (706, 39996), (731, 39930), (733, 39921), (737, 39909), (765, 39822), (816, 39654), (833, 39606), (866, 39495), (905, 39357), (908, 39348), (914, 39321), (928, 39273), (936, 39240), (944, 39213), (976, 39108), (978, 39096),

Gene: Mangeria_210 Start: 114077, Stop: 117565, Start Num: 23

Candidate Starts for Mangeria_210:

(Start: 23 @114077 has 44 MA's), (Start: 25 @114083 has 6 MA's), (Start: 32 @114095 has 9 MA's), (38, 114104), (Start: 66 @114170 has 166 MA's), (83, 114245), (104, 114359), (112, 114383), (133, 114443), (162, 114554), (170, 114593), (177, 114617), (185, 114659), (211, 114758), (221, 114800), (222, 114806), (227, 114818), (237, 114881), (251, 114941), (252, 114944), (259, 114971), (272,

115013), (Start: 292 @115076 has 9 MA's), (351, 115232), (356, 115250), (359, 115265), (373, 115382), (379, 115421), (395, 115541), (403, 115583), (413, 115628), (415, 115637), (428, 115688), (441, 115730), (461, 115796), (464, 115805), (465, 115808), (467, 115814), (468, 115817), (469, 115826), (471, 115832), (474, 115847), (499, 115934), (530, 116039), (541, 116093), (556, 116180), (562, 116210), (572, 116240), (579, 116273), (581, 116282), (592, 116354), (596, 116384), (622, 116501), (632, 116546), (643, 116588), (680, 116732), (702, 116792), (738, 116894), (770, 116981), (772, 116984), (779, 117002), (791, 117038), (792, 117041), (813, 117101), (818, 117119), (851, 117215), (858, 117245), (864, 117263), (876, 117293), (911, 117386), (914, 117401), (939, 117482), (940, 117488), (944, 117500),

Gene: Marietta_61 Start: 45676, Stop: 42425, Start Num: 72

Candidate Starts for Marietta_61:

(5, 45904), (Start: 72 @45676 has 72 MA's), (86, 45595), (Start: 89 @45580 has 8 MA's), (94, 45535), (124, 45427), (127, 45418), (169, 45253), (206, 45130), (218, 45079), (226, 45052), (234, 44998), (240, 44968), (Start: 292 @44785 has 9 MA's), (311, 44761), (343, 44653), (359, 44575), (365, 44548), (376, 44470), (378, 44455), (399, 44317), (460, 44119), (462, 44113), (469, 44086), (482, 44026), (502, 43951), (508, 43918), (530, 43882), (548, 43825), (561, 43762), (593, 43597), (594, 43594), (602, 43555), (603, 43552), (605, 43546), (607, 43537), (610, 43528), (634, 43432), (640, 43414), (648, 43378), (691, 43228), (708, 43174), (759, 43078), (795, 42994), (799, 42985), (817, 42934), (846, 42844), (878, 42748), (879, 42745), (930, 42562), (971, 42439),

Gene: Marsus_78 Start: 57668, Stop: 60952, Start Num: 68

Candidate Starts for Marsus_78:

(33, 57584), (42, 57611), (Start: 68 @57668 has 63 MA's), (78, 57713), (84, 57743), (88, 57761), (Start: 89 @57767 has 8 MA's), (157, 58046), (182, 58148), (214, 58226), (216, 58238), (231, 58313), (235, 58331), (249, 58394), (250, 58400), (262, 58439), (298, 58556), (334, 58655), (358, 58766), (367, 58796), (377, 58874), (413, 59087), (418, 59108), (471, 59222), (474, 59237), (497, 59327), (498, 59333), (499, 59339), (502, 59363), (503, 59366), (521, 59423), (535, 59456), (543, 59486), (548, 59495), (564, 59567), (567, 59576), (580, 59630), (592, 59702), (603, 59756), (606, 59765), (608, 59774), (610, 59783), (612, 59789), (632, 59870), (675, 60032), (698, 60101), (702, 60113), (738, 60227), (822, 60497), (855, 60608), (870, 60656), (881, 60692), (895, 60737), (911, 60788), (923, 60836), (928, 60851),

Gene: Maselop_59 Start: 45784, Stop: 42368, Start Num: 72

Candidate Starts for Maselop_59:

(Start: 72 @45784 has 72 MA's), (86, 45703), (Start: 89 @45688 has 8 MA's), (108, 45580), (110, 45574), (127, 45526), (148, 45445), (160, 45403), (217, 45193), (220, 45178), (222, 45169), (229, 45145), (233, 45115), (240, 45076), (261, 44995), (273, 44953), (318, 44818), (347, 44704), (359, 44653), (361, 44635), (365, 44626), (376, 44548), (378, 44533), (381, 44494), (388, 44455), (405, 44362), (417, 44311), (419, 44305), (428, 44266), (471, 44161), (474, 44146), (475, 44143), (502, 44029), (503, 44026), (508, 43996), (521, 43978), (522, 43975), (525, 43969), (527, 43966), (536, 43933), (543, 43912), (582, 43744), (594, 43666), (602, 43627), (603, 43624), (605, 43618), (610, 43600), (634, 43504), (640, 43486), (648, 43450), (671, 43378), (692, 43285), (695, 43273), (718, 43210), (737, 43153), (771, 43024), (781, 42994), (802, 42934), (803, 42931), (817, 42877), (846, 42787), (855, 42751), (874, 42706), (878, 42691), (892, 42649), (902, 42604), (919, 42550), (922, 42541), (927, 42529), (928, 42523), (930, 42505), (948, 42454), (949, 42451), (962, 42409),

Gene: Matsumoto_208 Start: 112819, Stop: 116214, Start Num: 66

Candidate Starts for Matsumoto_208:

(Start: 23 @112726 has 44 MA's), (Start: 25 @112732 has 6 MA's), (Start: 32 @112744 has 9 MA's), (38, 112753), (Start: 66 @112819 has 166 MA's), (83, 112894), (104, 113008), (112, 113032), (133, 113092), (162, 113203), (170, 113242), (177, 113266), (185, 113308), (211, 113407), (221, 113449), (222, 113455), (227, 113467), (237, 113530), (251, 113590), (252, 113593), (259, 113620), (272,

113662), (Start: 292 @113725 has 9 MA's), (344, 113845), (351, 113881), (356, 113899), (359, 113914), (373, 114031), (379, 114070), (395, 114190), (403, 114232), (413, 114277), (415, 114286), (428, 114337), (441, 114379), (461, 114445), (464, 114454), (465, 114457), (467, 114463), (468, 114466), (469, 114475), (471, 114481), (474, 114496), (499, 114583), (530, 114688), (541, 114742), (556, 114829), (562, 114859), (572, 114889), (579, 114922), (581, 114931), (592, 115003), (596, 115033), (622, 115150), (632, 115195), (643, 115237), (680, 115381), (702, 115441), (738, 115543), (770, 115630), (772, 115633), (779, 115651), (791, 115687), (792, 115690), (813, 115750), (818, 115768), (851, 115864), (858, 115894), (864, 115912), (876, 115942), (911, 116035), (914, 116050), (939, 116131), (940, 116137), (944, 116149),

Gene: McGee_208 Start: 111920, Stop: 115408, Start Num: 23

Candidate Starts for McGee_208:

(Start: 23 @111920 has 44 MA's), (Start: 25 @111926 has 6 MA's), (Start: 32 @111938 has 9 MA's), (38, 111947), (Start: 66 @112013 has 166 MA's), (83, 112088), (104, 112202), (112, 112226), (133, 112286), (162, 112397), (170, 112436), (177, 112460), (185, 112502), (211, 112601), (221, 112643), (222, 112649), (227, 112661), (237, 112724), (251, 112784), (252, 112787), (259, 112814), (272, 112856), (Start: 292 @112919 has 9 MA's), (344, 113039), (351, 113075), (356, 113093), (359, 113108), (373, 113225), (379, 113264), (395, 113384), (403, 113426), (413, 113471), (415, 113480), (428, 113531), (441, 113573), (461, 113639), (464, 113648), (465, 113651), (467, 113657), (468, 113660), (469, 113669), (471, 113675), (474, 113690), (499, 113777), (530, 113882), (541, 113936), (556, 114023), (562, 114053), (572, 114083), (579, 114116), (581, 114125), (592, 114197), (596, 114227), (622, 114344), (632, 114389), (643, 114431), (680, 114575), (702, 114635), (738, 114737), (770, 114824), (772, 114827), (779, 114845), (791, 114881), (792, 114884), (813, 114944), (818, 114962), (851, 115058), (858, 115088), (864, 115106), (876, 115136), (911, 115229), (914, 115244), (939, 115325), (940, 115331), (944, 115343),

Gene: McWolfish_206 Start: 112835, Stop: 116230, Start Num: 66

Candidate Starts for McWolfish_206:

(Start: 23 @112742 has 44 MA's), (Start: 25 @112748 has 6 MA's), (Start: 32 @112760 has 9 MA's), (38, 112769), (Start: 66 @112835 has 166 MA's), (83, 112910), (104, 113024), (112, 113048), (133, 113108), (162, 113219), (170, 113258), (177, 113282), (185, 113324), (211, 113423), (221, 113465), (222, 113471), (227, 113483), (237, 113546), (251, 113606), (252, 113609), (259, 113636), (272, 113678), (Start: 292 @113741 has 9 MA's), (344, 113861), (351, 113897), (356, 113915), (359, 113930), (373, 114047), (379, 114086), (395, 114206), (403, 114248), (413, 114293), (415, 114302), (428, 114353), (441, 114395), (461, 114461), (464, 114470), (465, 114473), (467, 114479), (468, 114482), (469, 114491), (471, 114497), (474, 114512), (499, 114599), (530, 114704), (541, 114758), (556, 114845), (562, 114875), (572, 114905), (579, 114938), (581, 114947), (592, 115019), (596, 115049), (622, 115166), (632, 115211), (643, 115253), (680, 115397), (702, 115457), (738, 115559), (770, 115646), (772, 115649), (779, 115667), (791, 115703), (792, 115706), (813, 115766), (818, 115784), (851, 115880), (858, 115910), (864, 115928), (876, 115958), (911, 116051), (914, 116066), (939, 116147), (940, 116153), (944, 116165),

Gene: Megamind_206 Start: 113033, Stop: 116521, Start Num: 23

Candidate Starts for Megamind_206:

(Start: 23 @113033 has 44 MA's), (Start: 25 @113039 has 6 MA's), (Start: 32 @113051 has 9 MA's), (38, 113060), (Start: 66 @113126 has 166 MA's), (83, 113201), (104, 113315), (112, 113339), (133, 113399), (162, 113510), (170, 113549), (177, 113573), (185, 113615), (211, 113714), (221, 113756), (222, 113762), (227, 113774), (237, 113837), (251, 113897), (252, 113900), (259, 113927), (272, 113969), (Start: 292 @114032 has 9 MA's), (344, 114152), (351, 114188), (356, 114206), (359, 114221), (373, 114338), (379, 114377), (395, 114497), (403, 114539), (413, 114584), (415, 114593), (428, 114644), (441, 114686), (461, 114752), (464, 114761), (465, 114764), (467, 114770), (468, 114773), (469, 114782), (471, 114788), (474, 114803), (499, 114890), (530, 114995), (541, 115049), (556, 115136), (562, 115166), (572, 115196), (579, 115229), (581, 115238), (592, 115310), (596,

115340), (622, 115457), (632, 115502), (643, 115544), (680, 115688), (702, 115748), (738, 115850), (770, 115937), (772, 115940), (779, 115958), (791, 115994), (792, 115997), (813, 116057), (818, 116075), (851, 116171), (858, 116201), (864, 116219), (876, 116249), (911, 116342), (914, 116357), (939, 116438), (940, 116444), (944, 116456),

Gene: MeganTheeKilla_59 Start: 47958, Stop: 51248, Start Num: 68

Candidate Starts for MeganTheeKilla_59:

(Start: 68 @47958 has 63 MA's), (74, 47973), (75, 47979), (84, 48030), (Start: 89 @48054 has 8 MA's), (135, 48243), (157, 48333), (172, 48393), (214, 48513), (235, 48618), (249, 48681), (250, 48687), (262, 48726), (346, 48999), (358, 49053), (367, 49083), (371, 49122), (378, 49170), (460, 49470), (471, 49509), (497, 49614), (498, 49620), (499, 49626), (504, 49659), (507, 49674), (514, 49692), (519, 49704), (521, 49710), (535, 49743), (543, 49773), (548, 49782), (562, 49848), (564, 49854), (567, 49863), (580, 49917), (592, 49989), (603, 50043), (606, 50052), (610, 50070), (612, 50076), (643, 50190), (663, 50256), (666, 50268), (678, 50328), (679, 50331), (700, 50394), (702, 50400), (704, 50406), (737, 50511), (747, 50559), (748, 50562), (774, 50631), (795, 50700), (799, 50709), (820, 50778), (822, 50784), (826, 50796), (835, 50829), (836, 50832), (855, 50895), (857, 50904), (864, 50925), (867, 50937), (881, 50979), (911, 51075), (919, 51111), (922, 51120), (928, 51138), (955, 51234),

Gene: Megatron06_78 Start: 56087, Stop: 59383, Start Num: 72

Candidate Starts for Megatron06_78:

(Start: 50 @56060 has 1 MA's), (Start: 72 @56087 has 72 MA's), (84, 56159), (Start: 89 @56183 has 8 MA's), (92, 56216), (127, 56351), (153, 56444), (158, 56462), (169, 56510), (188, 56570), (233, 56762), (296, 56996), (325, 57053), (346, 57152), (352, 57179), (359, 57209), (373, 57287), (378, 57332), (381, 57371), (387, 57413), (401, 57491), (405, 57509), (410, 57527), (412, 57539), (433, 57614), (475, 57770), (496, 57854), (509, 57932), (518, 57953), (520, 57962), (523, 57968), (528, 57977), (550, 58049), (553, 58064), (560, 58103), (564, 58115), (585, 58208), (586, 58214), (594, 58262), (603, 58304), (643, 58454), (646, 58466), (671, 58550), (705, 58691), (742, 58796), (825, 58895), (828, 58904), (852, 58982), (863, 59021), (870, 59036), (885, 59084), (912, 59180), (917, 59198), (926, 59225), (939, 59273), (949, 59303), (950, 59306), (954, 59321), (964, 59351), (966, 59360), (969, 59366), (970, 59369),

Gene: Melpomini_204 Start: 111911, Stop: 115306, Start Num: 66

Candidate Starts for Melpomini_204:

(Start: 23 @111818 has 44 MA's), (Start: 25 @111824 has 6 MA's), (Start: 32 @111836 has 9 MA's), (38, 111845), (Start: 66 @111911 has 166 MA's), (83, 111986), (104, 112100), (112, 112124), (133, 112184), (162, 112295), (170, 112334), (177, 112358), (185, 112400), (211, 112499), (221, 112541), (222, 112547), (227, 112559), (237, 112622), (251, 112682), (252, 112685), (259, 112712), (272, 112754), (Start: 292 @112817 has 9 MA's), (351, 112973), (356, 112991), (359, 113006), (373, 113123), (379, 113162), (395, 113282), (403, 113324), (413, 113369), (415, 113378), (428, 113429), (441, 113471), (461, 113537), (464, 113546), (465, 113549), (467, 113555), (468, 113558), (469, 113567), (471, 113573), (474, 113588), (499, 113675), (530, 113780), (541, 113834), (556, 113921), (562, 113951), (572, 113981), (579, 114014), (581, 114023), (592, 114095), (596, 114125), (622, 114242), (632, 114287), (643, 114329), (680, 114473), (702, 114533), (738, 114635), (770, 114722), (772, 114725), (779, 114743), (791, 114779), (792, 114782), (813, 114842), (818, 114860), (851, 114956), (858, 114986), (864, 115004), (876, 115034), (911, 115127), (914, 115142), (939, 115223), (940, 115229), (944, 115241),

Gene: MerCougar_61 Start: 49170, Stop: 45856, Start Num: 72

Candidate Starts for MerCougar_61:

(Start: 72 @49170 has 72 MA's), (Start: 89 @49074 has 8 MA's), (124, 48921), (127, 48912), (155, 48807), (160, 48789), (204, 48630), (206, 48624), (212, 48600), (234, 48492), (261, 48381), (311, 48255), (356, 48084), (365, 48042), (370, 48003), (376, 47964), (378, 47949), (399, 47811), (428,

47679), (460, 47613), (475, 47556), (491, 47496), (502, 47445), (530, 47376), (543, 47331), (577, 47196), (602, 47046), (603, 47043), (605, 47037), (610, 47019), (634, 46923), (648, 46869), (692, 46716), (708, 46665), (711, 46656), (759, 46512), (795, 46422), (817, 46362), (824, 46341), (831, 46320), (846, 46272), (875, 46188), (878, 46176), (879, 46173), (905, 46080), (962, 45897), (971, 45867),

Gene: MikeLiesIn_211 Start: 114262, Stop: 117657, Start Num: 66

Candidate Starts for MikeLiesIn_211:

(Start: 23 @114169 has 44 MA's), (Start: 25 @114175 has 6 MA's), (Start: 32 @114187 has 9 MA's), (38, 114196), (Start: 66 @114262 has 166 MA's), (83, 114337), (104, 114451), (112, 114475), (133, 114535), (162, 114646), (170, 114685), (177, 114709), (185, 114751), (211, 114850), (221, 114892), (222, 114898), (227, 114910), (237, 114973), (251, 115033), (252, 115036), (259, 115063), (272, 115105), (Start: 292 @115168 has 9 MA's), (344, 115288), (351, 115324), (356, 115342), (359, 115357), (373, 115474), (379, 115513), (395, 115633), (403, 115675), (413, 115720), (415, 115729), (428, 115780), (441, 115822), (461, 115888), (464, 115897), (465, 115900), (467, 115906), (468, 115909), (469, 115918), (471, 115924), (474, 115939), (499, 116026), (530, 116131), (541, 116185), (556, 116272), (562, 116302), (572, 116332), (579, 116365), (581, 116374), (592, 116446), (596, 116476), (622, 116593), (632, 116638), (643, 116680), (680, 116824), (702, 116884), (738, 116986), (770, 117073), (772, 117076), (779, 117094), (791, 117130), (792, 117133), (813, 117193), (818, 117211), (851, 117307), (858, 117337), (864, 117355), (876, 117385), (911, 117478), (914, 117493), (939, 117574), (940, 117580), (944, 117592),

Gene: Mikro_205 Start: 114811, Stop: 118206, Start Num: 66

Candidate Starts for Mikro_205:

(Start: 23 @114718 has 44 MA's), (Start: 25 @114724 has 6 MA's), (Start: 32 @114736 has 9 MA's), (38, 114745), (Start: 66 @114811 has 166 MA's), (83, 114886), (104, 115000), (112, 115024), (133, 115084), (162, 115195), (170, 115234), (177, 115258), (185, 115300), (211, 115399), (221, 115441), (222, 115447), (227, 115459), (237, 115522), (251, 115582), (252, 115585), (259, 115612), (272, 115654), (Start: 292 @115717 has 9 MA's), (351, 115873), (356, 115891), (359, 115906), (373, 116023), (379, 116062), (395, 116182), (403, 116224), (413, 116269), (415, 116278), (428, 116329), (441, 116371), (461, 116437), (464, 116446), (465, 116449), (467, 116455), (468, 116458), (469, 116467), (471, 116473), (474, 116488), (499, 116575), (530, 116680), (541, 116734), (556, 116821), (562, 116851), (572, 116881), (579, 116914), (581, 116923), (592, 116995), (596, 117025), (622, 117142), (632, 117187), (643, 117229), (680, 117373), (702, 117433), (738, 117535), (770, 117622), (772, 117625), (779, 117643), (791, 117679), (792, 117682), (813, 117742), (818, 117760), (851, 117856), (858, 117886), (864, 117904), (876, 117934), (911, 118027), (914, 118042), (939, 118123), (940, 118129), (944, 118141),

Gene: Mildred21_78 Start: 57592, Stop: 60879, Start Num: 68

Candidate Starts for Mildred21_78:

(Start: 68 @57592 has 63 MA's), (78, 57640), (84, 57670), (88, 57688), (Start: 89 @57694 has 8 MA's), (100, 57760), (157, 57973), (160, 57979), (182, 58075), (214, 58153), (235, 58258), (249, 58321), (250, 58327), (262, 58366), (298, 58483), (334, 58582), (358, 58693), (367, 58723), (371, 58762), (377, 58801), (411, 59005), (418, 59035), (471, 59149), (474, 59164), (498, 59260), (499, 59266), (507, 59314), (521, 59350), (543, 59413), (548, 59422), (564, 59494), (580, 59557), (588, 59608), (592, 59629), (603, 59683), (606, 59692), (608, 59701), (610, 59710), (612, 59716), (675, 59959), (698, 60028), (702, 60040), (735, 60145), (807, 60373), (822, 60424), (835, 60469), (855, 60535), (864, 60565), (870, 60583), (881, 60619), (895, 60664), (911, 60715), (923, 60763), (928, 60778),

Gene: Mima20_79 Start: 51983, Stop: 55228, Start Num: 89

Candidate Starts for Mima20_79:

(41, 51839), (Start: 69 @51887 has 20 MA's), (Start: 81 @51947 has 1 MA's), (Start: 89 @51983 has 8 MA's), (94, 52028), (104, 52070), (173, 52331), (204, 52433), (213, 52466), (233, 52562), (304,

52832), (Start: 307 @52841 has 8 MA's), (338, 52949), (346, 52994), (356, 53036), (378, 53168), (379, 53171), (380, 53201), (383, 53222), (395, 53291), (405, 53345), (430, 53444), (435, 53459), (455, 53501), (502, 53675), (508, 53708), (521, 53726), (530, 53744), (543, 53789), (544, 53792), (571, 53888), (580, 53930), (582, 53942), (587, 53978), (629, 54158), (640, 54200), (648, 54236), (666, 54290), (671, 54308), (692, 54404), (695, 54416), (795, 54611), (829, 54695), (853, 54776), (862, 54800), (867, 54815), (879, 54851), (882, 54863), (884, 54869), (885, 54872), (893, 54899), (903, 54944), (935, 55052), (950, 55097), (958, 55121), (969, 55157),

Gene: MindFlyer_79 Start: 58051, Stop: 61371, Start Num: 67
Candidate Starts for MindFlyer_79:

(Start: 67 @58051 has 30 MA's), (79, 58102), (84, 58123), (Start: 89 @58147 has 8 MA's), (103, 58228), (157, 58426), (214, 58606), (226, 58654), (227, 58657), (235, 58711), (245, 58762), (249, 58780), (251, 58789), (262, 58825), (295, 58933), (298, 58942), (358, 59152), (371, 59221), (395, 59386), (411, 59464), (469, 59626), (489, 59713), (499, 59749), (521, 59833), (543, 59896), (548, 59905), (592, 60109), (603, 60163), (606, 60172), (610, 60190), (612, 60196), (664, 60379), (666, 60388), (672, 60412), (675, 60439), (706, 60547), (738, 60646), (760, 60736), (790, 60814), (806, 60856), (809, 60874), (822, 60916), (834, 60955), (835, 60961), (845, 60988), (855, 61027), (870, 61075), (873, 61084), (895, 61156), (899, 61177), (907, 61204), (911, 61207), (914, 61222), (923, 61255), (942, 61324),

Gene: MintFritos_93 Start: 69920, Stop: 72733, Start Num: 54
Candidate Starts for MintFritos_93:

(Start: 46 @69905 has 1 MA's), (Start: 51 @69917 has 2 MA's), (Start: 54 @69920 has 8 MA's), (83, 70013), (92, 70073), (131, 70223), (132, 70226), (134, 70232), (145, 70274), (158, 70331), (163, 70361), (164, 70364), (180, 70427), (185, 70448), (186, 70451), (193, 70478), (222, 70595), (226, 70604), (235, 70661), (237, 70670), (273, 70802), (347, 70967), (351, 70985), (355, 71000), (357, 71006), (359, 71018), (367, 71045), (368, 71048), (375, 71108), (376, 71117), (377, 71120), (379, 71132), (382, 71177), (394, 71246), (397, 71270), (432, 71426), (438, 71444), (443, 71468), (448, 71486), (475, 71582), (483, 71624), (487, 71630), (499, 71666), (500, 71675), (503, 71693), (504, 71699), (508, 71723), (512, 71729), (514, 71732), (521, 71750), (522, 71753), (554, 71846), (564, 71891), (566, 71897), (574, 71921), (575, 71924), (577, 71933), (578, 71939), (580, 71951), (600, 72068), (602, 72086), (603, 72089), (606, 72098), (635, 72212), (639, 72227), (675, 72374), (679, 72386), (681, 72392), (692, 72425), (703, 72458), (708, 72476), (712, 72488), (714, 72497), (751, 72614), (762, 72638),

Gene: MoMoMixon_207 Start: 113214, Stop: 116696, Start Num: 25
Candidate Starts for MoMoMixon_207:

(Start: 23 @113208 has 44 MA's), (Start: 25 @113214 has 6 MA's), (Start: 32 @113226 has 9 MA's), (38, 113235), (Start: 66 @113301 has 166 MA's), (83, 113376), (104, 113490), (112, 113514), (133, 113574), (162, 113685), (170, 113724), (177, 113748), (185, 113790), (211, 113889), (221, 113931), (222, 113937), (227, 113949), (237, 114012), (251, 114072), (252, 114075), (259, 114102), (272, 114144), (Start: 292 @114207 has 9 MA's), (351, 114363), (356, 114381), (359, 114396), (373, 114513), (379, 114552), (395, 114672), (403, 114714), (413, 114759), (415, 114768), (428, 114819), (441, 114861), (461, 114927), (464, 114936), (465, 114939), (467, 114945), (468, 114948), (469, 114957), (471, 114963), (474, 114978), (499, 115065), (530, 115170), (541, 115224), (556, 115311), (562, 115341), (572, 115371), (579, 115404), (581, 115413), (592, 115485), (596, 115515), (622, 115632), (632, 115677), (643, 115719), (680, 115863), (702, 115923), (738, 116025), (770, 116112), (772, 116115), (779, 116133), (791, 116169), (792, 116172), (813, 116232), (818, 116250), (851, 116346), (858, 116376), (864, 116394), (876, 116424), (911, 116517), (914, 116532), (939, 116613), (940, 116619), (944, 116631),

Gene: Moab_61 Start: 49797, Stop: 53087, Start Num: 68
Candidate Starts for Moab_61:

(Start: 68 @49797 has 63 MA's), (74, 49812), (84, 49869), (88, 49887), (Start: 89 @49893 has 8 MA's), (140, 50103), (157, 50172), (160, 50178), (163, 50202), (172, 50232), (210, 50346), (214, 50352), (216, 50364), (235, 50457), (249, 50520), (250, 50526), (262, 50565), (289, 50655), (334, 50781), (358, 50892), (371, 50961), (375, 50988), (391, 51105), (460, 51309), (471, 51348), (495, 51447), (498, 51459), (499, 51465), (504, 51498), (514, 51531), (521, 51549), (543, 51612), (548, 51621), (562, 51687), (564, 51693), (580, 51756), (592, 51828), (603, 51882), (606, 51891), (608, 51900), (610, 51909), (612, 51915), (646, 52041), (666, 52107), (678, 52167), (679, 52170), (698, 52227), (704, 52245), (737, 52350), (747, 52398), (760, 52443), (799, 52548), (820, 52617), (822, 52623), (855, 52734), (857, 52743), (864, 52764), (885, 52827), (911, 52914), (925, 52965), (928, 52977), (942, 53031),

Gene: MoiGyank_82 Start: 52491, Stop: 55832, Start Num: 69

Candidate Starts for MoiGyank_82:

(41, 52443), (Start: 69 @52491 has 20 MA's), (Start: 81 @52551 has 1 MA's), (Start: 89 @52587 has 8 MA's), (94, 52632), (104, 52674), (173, 52935), (204, 53037), (213, 53070), (233, 53166), (304, 53436), (Start: 307 @53445 has 8 MA's), (338, 53553), (346, 53598), (356, 53640), (378, 53772), (379, 53775), (380, 53805), (383, 53826), (395, 53895), (405, 53949), (430, 54048), (435, 54063), (455, 54105), (502, 54279), (508, 54312), (521, 54330), (530, 54348), (543, 54393), (544, 54396), (571, 54492), (580, 54534), (582, 54546), (587, 54582), (629, 54762), (640, 54804), (648, 54840), (666, 54894), (671, 54912), (692, 55008), (695, 55020), (795, 55215), (829, 55299), (853, 55380), (862, 55404), (867, 55419), (879, 55455), (882, 55467), (884, 55473), (885, 55476), (893, 55503), (903, 55548), (935, 55656), (950, 55701), (958, 55725), (969, 55761),

Gene: Momo_210 Start: 112377, Stop: 115772, Start Num: 66

Candidate Starts for Momo_210:

(Start: 23 @112284 has 44 MA's), (Start: 25 @112290 has 6 MA's), (Start: 32 @112302 has 9 MA's), (38, 112311), (Start: 66 @112377 has 166 MA's), (83, 112452), (104, 112566), (112, 112590), (133, 112650), (162, 112761), (170, 112800), (177, 112824), (185, 112866), (211, 112965), (221, 113007), (222, 113013), (227, 113025), (237, 113088), (251, 113148), (252, 113151), (259, 113178), (272, 113220), (Start: 292 @113283 has 9 MA's), (344, 113403), (351, 113439), (356, 113457), (359, 113472), (373, 113589), (379, 113628), (395, 113748), (403, 113790), (413, 113835), (415, 113844), (428, 113895), (441, 113937), (461, 114003), (464, 114012), (465, 114015), (467, 114021), (468, 114024), (469, 114033), (471, 114039), (474, 114054), (499, 114141), (530, 114246), (541, 114300), (556, 114387), (562, 114417), (572, 114447), (579, 114480), (581, 114489), (592, 114561), (596, 114591), (622, 114708), (632, 114753), (643, 114795), (680, 114939), (702, 114999), (738, 115101), (770, 115188), (772, 115191), (779, 115209), (791, 115245), (792, 115248), (813, 115308), (818, 115326), (851, 115422), (858, 115452), (864, 115470), (876, 115500), (911, 115593), (914, 115608), (939, 115689), (940, 115695), (944, 115707),

Gene: MontyDev_76 Start: 55561, Stop: 57873, Start Num: 292

Candidate Starts for MontyDev_76:

(Start: 292 @55561 has 9 MA's), (338, 55657), (345, 55696), (356, 55747), (357, 55750), (358, 55759), (359, 55762), (368, 55792), (373, 55840), (378, 55876), (419, 56110), (427, 56143), (455, 56209), (475, 56287), (478, 56305), (521, 56470), (530, 56488), (552, 56560), (553, 56563), (557, 56587), (560, 56602), (571, 56632), (632, 56905), (644, 56947), (646, 56953), (648, 56965), (663, 57007), (671, 57037), (673, 57049), (685, 57109), (691, 57127), (693, 57133), (706, 57175), (715, 57202), (731, 57238), (827, 57361), (828, 57364), (839, 57400), (872, 57499), (882, 57526), (884, 57532), (893, 57562), (928, 57691), (929, 57697), (946, 57754), (951, 57769), (954, 57781), (961, 57799),

Gene: Mopey_68 Start: 49703, Stop: 53005, Start Num: 26

Candidate Starts for Mopey_68:

(Start: 26 @49703 has 20 MA's), (Start: 61 @49790 has 1 MA's), (65, 49796), (Start: 72 @49805 has 72 MA's), (Start: 89 @49901 has 8 MA's), (127, 50057), (151, 50144), (152, 50147), (163, 50198),

(233, 50462), (240, 50501), (258, 50573), (261, 50582), (283, 50657), (308, 50723), (309, 50729), (329, 50783), (338, 50801), (347, 50852), (348, 50855), (355, 50885), (371, 50969), (372, 50978), (376, 51005), (378, 51020), (405, 51197), (407, 51206), (411, 51221), (435, 51311), (469, 51392), (482, 51452), (502, 51527), (508, 51560), (512, 51566), (526, 51587), (530, 51596), (543, 51641), (560, 51710), (565, 51725), (582, 51794), (592, 51857), (600, 51890), (601, 51893), (612, 51944), (631, 52019), (666, 52142), (671, 52160), (691, 52238), (692, 52241), (695, 52253), (710, 52298), (721, 52319), (724, 52331), (733, 52361), (740, 52382), (801, 52454), (829, 52511), (860, 52610), (882, 52676), (906, 52766), (916, 52796), (917, 52799), (927, 52829), (938, 52874), (951, 52916), (961, 52946), (964, 52958), (969, 52973), (971, 52982),

Gene: Morizzled23_206 Start: 111744, Stop: 115139, Start Num: 66

Candidate Starts for Morizzled23_206:

(Start: 23 @111651 has 44 MA's), (Start: 25 @111657 has 6 MA's), (Start: 32 @111669 has 9 MA's), (38, 111678), (Start: 66 @111744 has 166 MA's), (83, 111819), (104, 111933), (112, 111957), (133, 112017), (162, 112128), (170, 112167), (177, 112191), (185, 112233), (211, 112332), (221, 112374), (222, 112380), (227, 112392), (237, 112455), (251, 112515), (252, 112518), (259, 112545), (272, 112587), (Start: 292 @112650 has 9 MA's), (344, 112770), (351, 112806), (356, 112824), (359, 112839), (373, 112956), (379, 112995), (395, 113115), (403, 113157), (413, 113202), (415, 113211), (428, 113262), (441, 113304), (461, 113370), (464, 113379), (465, 113382), (467, 113388), (468, 113391), (469, 113400), (471, 113406), (474, 113421), (499, 113508), (530, 113613), (541, 113667), (556, 113754), (562, 113784), (572, 113814), (579, 113847), (581, 113856), (592, 113928), (596, 113958), (622, 114075), (632, 114120), (643, 114162), (680, 114306), (702, 114366), (738, 114468), (770, 114555), (772, 114558), (779, 114576), (791, 114612), (792, 114615), (813, 114675), (818, 114693), (851, 114789), (858, 114819), (864, 114837), (876, 114867), (911, 114960), (914, 114975), (939, 115056), (940, 115062), (944, 115074),

Gene: MortySmith_55 Start: 40308, Stop: 42608, Start Num: 287

Candidate Starts for MortySmith_55:

(Start: 287 @40308 has 29 MA's), (Start: 290 @40314 has 6 MA's), (324, 40389), (344, 40461), (348, 40482), (356, 40515), (358, 40527), (359, 40530), (361, 40548), (364, 40554), (375, 40623), (378, 40647), (381, 40686), (391, 40743), (405, 40824), (435, 40938), (440, 40950), (471, 41025), (475, 41043), (493, 41121), (496, 41127), (498, 41136), (503, 41169), (508, 41199), (512, 41205), (526, 41226), (530, 41235), (538, 41265), (558, 41340), (560, 41349), (570, 41373), (571, 41379), (575, 41394), (592, 41496), (608, 41568), (614, 41592), (635, 41676), (663, 41766), (666, 41778), (671, 41796), (687, 41874), (688, 41880), (692, 41889), (702, 41922), (729, 41994), (840, 42174), (850, 42204), (868, 42267), (892, 42339), (929, 42462), (953, 42540), (966, 42585), (969, 42591),

Gene: Mugiwara_83 Start: 58808, Stop: 62128, Start Num: 67

Candidate Starts for Mugiwara_83:

(Start: 67 @58808 has 30 MA's), (79, 58859), (84, 58880), (Start: 89 @58904 has 8 MA's), (103, 58985), (157, 59183), (214, 59363), (226, 59411), (235, 59468), (236, 59471), (245, 59519), (249, 59537), (251, 59546), (262, 59582), (298, 59699), (358, 59909), (371, 59978), (395, 60143), (411, 60221), (469, 60383), (499, 60506), (521, 60590), (548, 60662), (592, 60866), (603, 60920), (606, 60929), (610, 60947), (612, 60953), (666, 61145), (672, 61169), (675, 61196), (706, 61304), (747, 61448), (755, 61481), (760, 61493), (790, 61571), (806, 61613), (809, 61631), (822, 61673), (834, 61712), (835, 61718), (845, 61745), (855, 61784), (870, 61832), (873, 61841), (895, 61913), (899, 61934), (907, 61961), (911, 61964), (922, 62009), (923, 62012), (938, 62066), (942, 62081),

Gene: MulchMansion_77 Start: 57396, Stop: 60680, Start Num: 68

Candidate Starts for MulchMansion_77:

(33, 57312), (42, 57339), (Start: 68 @57396 has 63 MA's), (78, 57441), (84, 57471), (88, 57489), (Start: 89 @57495 has 8 MA's), (157, 57774), (182, 57876), (214, 57954), (216, 57966), (235, 58059), (249, 58122), (250, 58128), (262, 58167), (298, 58284), (317, 58323), (334, 58383), (358, 58494),

(367, 58524), (377, 58602), (407, 58791), (413, 58815), (418, 58836), (471, 58950), (474, 58965), (497, 59055), (498, 59061), (499, 59067), (502, 59091), (503, 59094), (521, 59151), (535, 59184), (543, 59214), (548, 59223), (564, 59295), (567, 59304), (580, 59358), (592, 59430), (603, 59484), (606, 59493), (608, 59502), (610, 59511), (612, 59517), (632, 59598), (675, 59760), (698, 59829), (702, 59841), (738, 59955), (819, 60216), (822, 60225), (855, 60336), (870, 60384), (895, 60465), (911, 60516), (923, 60564), (928, 60579),

Gene: Muntaha_58 Start: 50102, Stop: 53389, Start Num: 68

Candidate Starts for Muntaha_58:

(Start: 68 @50102 has 63 MA's), (84, 50174), (Start: 89 @50198 has 8 MA's), (106, 50294), (157, 50477), (172, 50537), (199, 50627), (214, 50657), (217, 50672), (223, 50699), (226, 50705), (235, 50762), (249, 50825), (262, 50870), (276, 50918), (343, 51122), (357, 51188), (358, 51197), (388, 51398), (395, 51431), (411, 51509), (418, 51539), (460, 51614), (471, 51653), (474, 51668), (498, 51764), (499, 51770), (504, 51803), (519, 51848), (521, 51854), (538, 51902), (548, 51926), (554, 51953), (557, 51971), (564, 51998), (580, 52061), (592, 52133), (603, 52187), (606, 52196), (610, 52214), (612, 52220), (646, 52346), (663, 52400), (666, 52412), (675, 52463), (678, 52472), (698, 52532), (748, 52706), (765, 52757), (804, 52865), (820, 52922), (822, 52928), (836, 52976), (855, 53039), (857, 53048), (896, 53177), (911, 53219), (914, 53234), (928, 53282),

Gene: Myrna_192 Start: 109812, Stop: 113228, Start Num: 59

Candidate Starts for Myrna_192:

(Start: 59 @109812 has 3 MA's), (84, 109899), (96, 109974), (113, 110037), (161, 110202), (214, 110430), (221, 110463), (222, 110469), (226, 110478), (228, 110484), (235, 110535), (237, 110544), (251, 110601), (252, 110604), (259, 110631), (277, 110688), (283, 110709), (Start: 292 @110733 has 9 MA's), (356, 110907), (359, 110922), (371, 111027), (391, 111171), (395, 111198), (415, 111294), (437, 111360), (451, 111417), (464, 111462), (465, 111465), (471, 111489), (476, 111510), (494, 111576), (499, 111594), (500, 111603), (504, 111627), (544, 111762), (576, 111909), (579, 111930), (581, 111939), (584, 111963), (593, 112020), (596, 112035), (603, 112065), (624, 112152), (632, 112188), (648, 112254), (663, 112296), (666, 112308), (669, 112317), (690, 112419), (702, 112455), (737, 112554), (792, 112704), (807, 112737), (845, 112860), (858, 112911), (864, 112929), (877, 112965), (889, 112995), (894, 113013), (910, 113049), (932, 113130), (940, 113151), (944, 113163), (959, 113205), (964, 113220),

Gene: Nabi_55 Start: 41492, Stop: 38013, Start Num: 66

Candidate Starts for Nabi_55:

(Start: 32 @41561 has 9 MA's), (Start: 66 @41492 has 166 MA's), (Start: 81 @41432 has 1 MA's), (83, 41423), (91, 41381), (108, 41288), (126, 41219), (143, 41150), (156, 41096), (174, 41024), (198, 40928), (226, 40850), (255, 40703), (270, 40664), (277, 40637), (282, 40619), (Start: 290 @40598 has 6 MA's), (295, 40583), (347, 40463), (350, 40451), (380, 40265), (381, 40259), (404, 40130), (407, 40112), (422, 40055), (423, 40052), (426, 40040), (469, 39902), (471, 39896), (474, 39881), (476, 39875), (482, 39842), (504, 39764), (514, 39731), (548, 39641), (558, 39590), (580, 39509), (581, 39503), (592, 39434), (599, 39392), (602, 39371), (608, 39350), (618, 39305), (630, 39266), (645, 39209), (647, 39200), (672, 39119), (675, 39092), (681, 39071), (684, 39050), (697, 39020), (706, 38993), (731, 38927), (733, 38918), (737, 38906), (765, 38819), (776, 38795), (807, 38699), (833, 38603), (857, 38519), (866, 38492), (905, 38354), (908, 38345), (914, 38318), (928, 38270), (929, 38264), (934, 38243), (936, 38237), (968, 38132), (976, 38105), (978, 38093),

Gene: NadineRae_59 Start: 44917, Stop: 41666, Start Num: 72

Candidate Starts for NadineRae_59:

(22, 45019), (27, 45007), (55, 44938), (Start: 72 @44917 has 72 MA's), (86, 44836), (Start: 89 @44821 has 8 MA's), (94, 44776), (124, 44668), (127, 44659), (206, 44371), (218, 44320), (226, 44293), (234, 44239), (240, 44209), (Start: 292 @44026 has 9 MA's), (311, 44002), (343, 43894), (359, 43816), (365, 43789), (376, 43711), (378, 43696), (399, 43558), (419, 43465), (460, 43360), (462, 43354), (469,

43327), (482, 43267), (502, 43192), (508, 43159), (530, 43123), (543, 43078), (548, 43066), (561, 43003), (593, 42838), (594, 42835), (602, 42796), (603, 42793), (605, 42787), (607, 42778), (610, 42769), (634, 42673), (640, 42655), (648, 42619), (708, 42415), (759, 42319), (766, 42316), (795, 42235), (799, 42226), (817, 42175), (846, 42085), (878, 41989), (879, 41986), (930, 41803),

Gene: Naija_210 Start: 113080, Stop: 116475, Start Num: 66

Candidate Starts for Naija_210:

(Start: 23 @112987 has 44 MA's), (Start: 25 @112993 has 6 MA's), (Start: 32 @113005 has 9 MA's), (38, 113014), (Start: 66 @113080 has 166 MA's), (83, 113155), (104, 113269), (112, 113293), (133, 113353), (162, 113464), (170, 113503), (177, 113527), (185, 113569), (211, 113668), (221, 113710), (222, 113716), (227, 113728), (237, 113791), (251, 113851), (252, 113854), (259, 113881), (272, 113923), (Start: 292 @113986 has 9 MA's), (344, 114106), (351, 114142), (356, 114160), (359, 114175), (373, 114292), (379, 114331), (395, 114451), (403, 114493), (413, 114538), (415, 114547), (428, 114598), (441, 114640), (461, 114706), (464, 114715), (465, 114718), (467, 114724), (468, 114727), (469, 114736), (471, 114742), (474, 114757), (499, 114844), (530, 114949), (541, 115003), (556, 115090), (562, 115120), (572, 115150), (579, 115183), (581, 115192), (592, 115264), (596, 115294), (622, 115411), (632, 115456), (643, 115498), (680, 115642), (702, 115702), (738, 115804), (770, 115891), (772, 115894), (779, 115912), (791, 115948), (792, 115951), (813, 116011), (818, 116029), (851, 116125), (858, 116155), (864, 116173), (876, 116203), (911, 116296), (914, 116311), (939, 116392), (940, 116398), (944, 116410),

Gene: Nanodon_56 Start: 41425, Stop: 37946, Start Num: 66

Candidate Starts for Nanodon_56:

(6, 41629), (Start: 32 @41494 has 9 MA's), (Start: 66 @41425 has 166 MA's), (Start: 81 @41362 has 1 MA's), (83, 41353), (108, 41218), (126, 41149), (143, 41080), (156, 41026), (174, 40954), (198, 40858), (226, 40780), (255, 40633), (270, 40594), (282, 40549), (Start: 290 @40528 has 6 MA's), (295, 40513), (347, 40393), (365, 40318), (380, 40195), (381, 40189), (388, 40144), (404, 40060), (407, 40042), (422, 39985), (423, 39982), (426, 39970), (469, 39832), (474, 39811), (476, 39805), (478, 39790), (482, 39772), (493, 39748), (496, 39742), (503, 39700), (504, 39694), (514, 39661), (558, 39520), (580, 39439), (581, 39433), (592, 39364), (602, 39301), (618, 39235), (630, 39196), (645, 39139), (647, 39130), (675, 39022), (678, 39013), (681, 39001), (684, 38980), (697, 38950), (706, 38923), (731, 38857), (733, 38848), (737, 38836), (765, 38749), (776, 38725), (833, 38533), (857, 38449), (866, 38422), (869, 38416), (905, 38284), (908, 38275), (914, 38248), (928, 38200), (929, 38194), (936, 38167), (978, 38023),

Gene: Napoleon13_206 Start: 112108, Stop: 115503, Start Num: 66

Candidate Starts for Napoleon13_206:

(Start: 23 @112015 has 44 MA's), (Start: 25 @112021 has 6 MA's), (Start: 32 @112033 has 9 MA's), (38, 112042), (Start: 66 @112108 has 166 MA's), (83, 112183), (104, 112297), (112, 112321), (133, 112381), (162, 112492), (170, 112531), (177, 112555), (185, 112597), (211, 112696), (221, 112738), (222, 112744), (227, 112756), (237, 112819), (251, 112879), (252, 112882), (259, 112909), (272, 112951), (Start: 292 @113014 has 9 MA's), (344, 113134), (351, 113170), (356, 113188), (359, 113203), (373, 113320), (379, 113359), (395, 113479), (403, 113521), (413, 113566), (415, 113575), (428, 113626), (441, 113668), (461, 113734), (464, 113743), (465, 113746), (467, 113752), (468, 113755), (469, 113764), (471, 113770), (474, 113785), (499, 113872), (530, 113977), (541, 114031), (556, 114118), (562, 114148), (572, 114178), (579, 114211), (581, 114220), (592, 114292), (596, 114322), (622, 114439), (632, 114484), (643, 114526), (680, 114670), (702, 114730), (738, 114832), (770, 114919), (772, 114922), (779, 114940), (791, 114976), (792, 114979), (813, 115039), (818, 115057), (851, 115153), (858, 115183), (864, 115201), (876, 115231), (911, 115324), (914, 115339), (939, 115420), (940, 115426), (944, 115438),

Gene: Nappy_210 Start: 114681, Stop: 118169, Start Num: 23

Candidate Starts for Nappy_210:

(Start: 23 @114681 has 44 MA's), (Start: 25 @114687 has 6 MA's), (Start: 32 @114699 has 9 MA's), (38, 114708), (Start: 66 @114774 has 166 MA's), (83, 114849), (104, 114963), (112, 114987), (133, 115047), (162, 115158), (170, 115197), (177, 115221), (185, 115263), (187, 115269), (211, 115362), (221, 115404), (222, 115410), (227, 115422), (237, 115485), (251, 115545), (252, 115548), (259, 115575), (272, 115617), (Start: 292 @115680 has 9 MA's), (351, 115836), (356, 115854), (359, 115869), (373, 115986), (379, 116025), (395, 116145), (403, 116187), (413, 116232), (415, 116241), (428, 116292), (441, 116334), (461, 116400), (464, 116409), (465, 116412), (467, 116418), (468, 116421), (469, 116430), (471, 116436), (474, 116451), (499, 116538), (530, 116643), (541, 116697), (556, 116784), (562, 116814), (572, 116844), (579, 116877), (581, 116886), (592, 116958), (596, 116988), (622, 117105), (632, 117150), (643, 117192), (680, 117336), (702, 117396), (738, 117498), (770, 117585), (772, 117588), (779, 117606), (791, 117642), (792, 117645), (813, 117705), (818, 117723), (851, 117819), (858, 117849), (864, 117867), (876, 117897), (911, 117990), (914, 118005), (939, 118086), (940, 118092), (944, 118104),

Gene: NarutoRun_57 Start: 41234, Stop: 43537, Start Num: 287

Candidate Starts for NarutoRun_57:

(Start: 287 @41234 has 29 MA's), (Start: 290 @41240 has 6 MA's), (324, 41318), (344, 41390), (348, 41411), (356, 41444), (358, 41456), (359, 41459), (361, 41477), (375, 41552), (378, 41576), (381, 41615), (388, 41660), (391, 41672), (405, 41753), (435, 41867), (440, 41879), (471, 41954), (475, 41972), (493, 42050), (496, 42056), (498, 42065), (503, 42098), (508, 42128), (512, 42134), (526, 42155), (530, 42164), (538, 42194), (558, 42269), (560, 42278), (570, 42302), (571, 42308), (575, 42323), (580, 42350), (592, 42425), (608, 42497), (614, 42521), (635, 42605), (663, 42695), (666, 42707), (671, 42725), (687, 42803), (688, 42809), (692, 42818), (702, 42851), (729, 42923), (840, 43103), (850, 43133), (868, 43196), (892, 43268), (929, 43391), (938, 43424), (953, 43469), (966, 43514), (969, 43520),

Gene: NatB6_60 Start: 48176, Stop: 44865, Start Num: 72

Candidate Starts for NatB6_60:

(3, 48419), (Start: 72 @48176 has 72 MA's), (84, 48104), (Start: 89 @48080 has 8 MA's), (94, 48035), (124, 47927), (127, 47918), (160, 47795), (204, 47636), (206, 47630), (212, 47606), (234, 47498), (240, 47468), (261, 47387), (311, 47261), (317, 47243), (356, 47090), (365, 47048), (376, 46970), (378, 46955), (399, 46817), (460, 46619), (474, 46565), (475, 46562), (491, 46502), (502, 46451), (521, 46400), (530, 46382), (543, 46337), (593, 46097), (602, 46055), (603, 46052), (605, 46046), (610, 46028), (634, 45932), (648, 45878), (688, 45734), (692, 45725), (706, 45680), (722, 45650), (744, 45575), (759, 45521), (779, 45479), (795, 45431), (824, 45350), (831, 45329), (857, 45239), (871, 45209), (878, 45185), (879, 45182), (930, 44999), (951, 44942),

Gene: Naval22_214 Start: 114857, Stop: 118252, Start Num: 66

Candidate Starts for Naval22_214:

(Start: 23 @114764 has 44 MA's), (Start: 25 @114770 has 6 MA's), (Start: 32 @114782 has 9 MA's), (38, 114791), (Start: 66 @114857 has 166 MA's), (83, 114932), (104, 115046), (112, 115070), (133, 115130), (162, 115241), (170, 115280), (177, 115304), (185, 115346), (211, 115445), (221, 115487), (222, 115493), (227, 115505), (237, 115568), (251, 115628), (252, 115631), (259, 115658), (272, 115700), (Start: 292 @115763 has 9 MA's), (344, 115883), (351, 115919), (356, 115937), (359, 115952), (373, 116069), (379, 116108), (395, 116228), (403, 116270), (413, 116315), (415, 116324), (428, 116375), (441, 116417), (461, 116483), (464, 116492), (465, 116495), (467, 116501), (468, 116504), (469, 116513), (471, 116519), (474, 116534), (499, 116621), (530, 116726), (541, 116780), (556, 116867), (562, 116897), (572, 116927), (579, 116960), (581, 116969), (592, 117041), (596, 117071), (622, 117188), (632, 117233), (643, 117275), (680, 117419), (702, 117479), (738, 117581), (770, 117668), (772, 117671), (779, 117689), (791, 117725), (792, 117728), (813, 117788), (818, 117806), (851, 117902), (858, 117932), (864, 117950), (876, 117980), (911, 118073), (914, 118088), (939, 118169), (940, 118175), (944, 118187),

Gene: Navo_77 Start: 58485, Stop: 61769, Start Num: 68

Candidate Starts for Navo_77:

(Start: 68 @58485 has 63 MA's), (78, 58530), (84, 58560), (88, 58578), (Start: 89 @58584 has 8 MA's), (157, 58863), (160, 58869), (182, 58965), (214, 59043), (235, 59148), (249, 59211), (250, 59217), (262, 59256), (298, 59373), (334, 59472), (358, 59583), (367, 59613), (371, 59652), (411, 59895), (418, 59925), (471, 60039), (474, 60054), (497, 60144), (498, 60150), (499, 60156), (521, 60240), (543, 60303), (548, 60312), (564, 60384), (580, 60447), (592, 60519), (603, 60573), (606, 60582), (608, 60591), (610, 60600), (612, 60606), (632, 60687), (663, 60786), (675, 60849), (698, 60918), (702, 60930), (753, 61116), (760, 61134), (795, 61230), (807, 61263), (822, 61314), (835, 61359), (855, 61425), (864, 61455), (870, 61473), (881, 61509), (895, 61554), (901, 61584), (911, 61605), (923, 61653), (928, 61668),

Gene: NedWong_208 Start: 113513, Stop: 116908, Start Num: 66

Candidate Starts for NedWong_208:

(Start: 23 @113420 has 44 MA's), (Start: 25 @113426 has 6 MA's), (Start: 32 @113438 has 9 MA's), (38, 113447), (Start: 66 @113513 has 166 MA's), (83, 113588), (104, 113702), (112, 113726), (133, 113786), (162, 113897), (170, 113936), (177, 113960), (185, 114002), (211, 114101), (221, 114143), (222, 114149), (227, 114161), (237, 114224), (251, 114284), (252, 114287), (259, 114314), (272, 114356), (Start: 292 @114419 has 9 MA's), (344, 114539), (351, 114575), (356, 114593), (359, 114608), (373, 114725), (379, 114764), (395, 114884), (403, 114926), (413, 114971), (415, 114980), (428, 115031), (441, 115073), (461, 115139), (464, 115148), (465, 115151), (467, 115157), (468, 115160), (469, 115169), (471, 115175), (474, 115190), (499, 115277), (530, 115382), (541, 115436), (556, 115523), (562, 115553), (572, 115583), (579, 115616), (581, 115625), (592, 115697), (596, 115727), (622, 115844), (632, 115889), (643, 115931), (680, 116075), (702, 116135), (738, 116237), (770, 116324), (772, 116327), (779, 116345), (791, 116381), (792, 116384), (813, 116444), (818, 116462), (851, 116558), (858, 116588), (864, 116606), (876, 116636), (911, 116729), (914, 116744), (939, 116825), (940, 116831), (944, 116843),

Gene: Neptune_57 Start: 41252, Stop: 43555, Start Num: 287

Candidate Starts for Neptune_57:

(Start: 287 @41252 has 29 MA's), (Start: 290 @41258 has 6 MA's), (324, 41336), (344, 41408), (348, 41429), (356, 41462), (358, 41474), (359, 41477), (361, 41495), (375, 41570), (378, 41594), (381, 41633), (388, 41678), (391, 41690), (405, 41771), (435, 41885), (440, 41897), (471, 41972), (475, 41990), (493, 42068), (496, 42074), (498, 42083), (503, 42116), (508, 42146), (512, 42152), (526, 42173), (530, 42182), (538, 42212), (558, 42287), (560, 42296), (570, 42320), (571, 42326), (572, 42332), (575, 42341), (592, 42443), (608, 42515), (614, 42539), (635, 42623), (663, 42713), (666, 42725), (671, 42743), (687, 42821), (688, 42827), (692, 42836), (702, 42869), (729, 42941), (840, 43121), (850, 43151), (868, 43214), (892, 43286), (929, 43409), (938, 43442), (953, 43487), (966, 43532), (969, 43538),

Gene: Nerdos_52 Start: 40231, Stop: 36752, Start Num: 66

Candidate Starts for Nerdos_52:

(4, 40441), (Start: 66 @40231 has 166 MA's), (83, 40159), (Start: 89 @40132 has 8 MA's), (91, 40117), (126, 39955), (132, 39928), (134, 39922), (156, 39832), (161, 39817), (173, 39763), (174, 39760), (198, 39664), (226, 39586), (255, 39439), (270, 39400), (282, 39355), (Start: 290 @39334 has 6 MA's), (295, 39319), (321, 39277), (326, 39265), (347, 39199), (350, 39187), (365, 39124), (381, 38995), (382, 38986), (388, 38950), (404, 38866), (407, 38848), (422, 38791), (423, 38788), (426, 38776), (469, 38638), (471, 38632), (474, 38617), (476, 38611), (482, 38578), (504, 38500), (514, 38467), (558, 38326), (576, 38269), (580, 38245), (581, 38239), (592, 38170), (602, 38107), (618, 38041), (623, 38020), (630, 38002), (645, 37945), (647, 37936), (675, 37828), (678, 37819), (681, 37807), (684, 37786), (697, 37756), (706, 37729), (731, 37663), (733, 37654), (737, 37642), (765, 37555), (776, 37531), (792, 37483), (833, 37339), (855, 37264), (905, 37090), (914, 37054), (928, 37006), (936, 36973),

Gene: Ngannou_206 Start: 111359, Stop: 114754, Start Num: 66

Candidate Starts for Ngannou_206:

(Start: 23 @111266 has 44 MA's), (Start: 25 @111272 has 6 MA's), (Start: 32 @111284 has 9 MA's), (38, 111293), (Start: 66 @111359 has 166 MA's), (83, 111434), (104, 111548), (112, 111572), (133, 111632), (162, 111743), (170, 111782), (177, 111806), (185, 111848), (211, 111947), (221, 111989), (222, 111995), (227, 112007), (237, 112070), (251, 112130), (252, 112133), (259, 112160), (272, 112202), (Start: 292 @112265 has 9 MA's), (344, 112385), (351, 112421), (356, 112439), (359, 112454), (373, 112571), (379, 112610), (395, 112730), (403, 112772), (413, 112817), (415, 112826), (428, 112877), (441, 112919), (461, 112985), (464, 112994), (465, 112997), (467, 113003), (468, 113006), (469, 113015), (471, 113021), (474, 113036), (499, 113123), (530, 113228), (541, 113282), (556, 113369), (562, 113399), (572, 113429), (579, 113462), (581, 113471), (592, 113543), (596, 113573), (622, 113690), (632, 113735), (643, 113777), (680, 113921), (702, 113981), (738, 114083), (770, 114170), (772, 114173), (779, 114191), (791, 114227), (792, 114230), (813, 114290), (818, 114308), (851, 114404), (858, 114434), (864, 114452), (876, 114482), (911, 114575), (914, 114590), (939, 114671), (940, 114677), (944, 114689),

Gene: NiceHouse_90 Start: 64900, Stop: 68652, Start Num: 71

Candidate Starts for NiceHouse_90:

(Start: 71 @64900 has 2 MA's), (78, 64942), (167, 65314), (170, 65326), (199, 65425), (214, 65455), (217, 65470), (226, 65503), (227, 65506), (236, 65563), (239, 65581), (243, 65605), (250, 65629), (262, 65668), (265, 65683), (268, 65689), (271, 65695), (Start: 287 @65755 has 29 MA's), (317, 65824), (334, 65881), (343, 65917), (346, 65938), (373, 66073), (381, 66148), (400, 66256), (428, 66379), (464, 66457), (468, 66469), (474, 66499), (478, 66520), (501, 66613), (502, 66619), (506, 66637), (532, 66703), (536, 66721), (548, 66751), (554, 66778), (565, 66823), (603, 67009), (607, 67024), (610, 67036), (675, 67279), (682, 67306), (683, 67312), (761, 67564), (768, 67588), (778, 67612), (792, 67651), (810, 67708), (812, 67714), (818, 67735), (821, 67744), (838, 67798), (843, 67813), (847, 67825), (864, 67888), (865, 67894), (883, 67945), (891, 67972), (937, 68137), (940, 68149), (983, 68308), (984, 68332), (987, 68353), (990, 68371), (991, 68398), (992, 68401), (994, 68422), (997, 68491), (998, 68494), (1002, 68590), (1003, 68596), (1004, 68620), (1005, 68626),

Gene: Nidhogg_210 Start: 113906, Stop: 117301, Start Num: 66

Candidate Starts for Nidhogg_210:

(Start: 23 @113813 has 44 MA's), (Start: 25 @113819 has 6 MA's), (Start: 32 @113831 has 9 MA's), (38, 113840), (Start: 66 @113906 has 166 MA's), (83, 113981), (104, 114095), (112, 114119), (133, 114179), (162, 114290), (170, 114329), (177, 114353), (185, 114395), (211, 114494), (221, 114536), (222, 114542), (227, 114554), (237, 114617), (251, 114677), (252, 114680), (259, 114707), (272, 114749), (Start: 292 @114812 has 9 MA's), (344, 114932), (351, 114968), (356, 114986), (359, 115001), (373, 115118), (379, 115157), (395, 115277), (403, 115319), (413, 115364), (415, 115373), (428, 115424), (441, 115466), (461, 115532), (464, 115541), (465, 115544), (467, 115550), (468, 115553), (469, 115562), (471, 115568), (474, 115583), (499, 115670), (530, 115775), (541, 115829), (556, 115916), (562, 115946), (572, 115976), (579, 116009), (581, 116018), (592, 116090), (596, 116120), (622, 116237), (632, 116282), (643, 116324), (680, 116468), (702, 116528), (738, 116630), (770, 116717), (772, 116720), (779, 116738), (791, 116774), (792, 116777), (813, 116837), (818, 116855), (851, 116951), (858, 116981), (864, 116999), (876, 117029), (911, 117122), (914, 117137), (939, 117218), (940, 117224), (944, 117236),

Gene: Nilo_76 Start: 55918, Stop: 58230, Start Num: 292

Candidate Starts for Nilo_76:

(Start: 292 @55918 has 9 MA's), (338, 56014), (345, 56053), (356, 56104), (357, 56107), (359, 56119), (368, 56149), (373, 56197), (378, 56233), (419, 56467), (427, 56500), (455, 56566), (475, 56644), (478, 56662), (515, 56809), (521, 56827), (530, 56845), (552, 56917), (553, 56920), (557, 56944), (560, 56959), (571, 56989), (632, 57262), (644, 57304), (646, 57310), (648, 57322), (663, 57364),

(671, 57394), (673, 57406), (685, 57466), (691, 57484), (693, 57490), (706, 57532), (715, 57559), (731, 57595), (827, 57718), (828, 57721), (839, 57757), (872, 57856), (882, 57883), (884, 57889), (893, 57919), (917, 58012), (928, 58048), (929, 58054), (946, 58111), (951, 58126), (954, 58138), (961, 58156),

Gene: NoodleTree_215 Start: 113813, Stop: 117208, Start Num: 66

Candidate Starts for NoodleTree_215:

(Start: 23 @113720 has 44 MA's), (Start: 25 @113726 has 6 MA's), (Start: 32 @113738 has 9 MA's), (38, 113747), (Start: 66 @113813 has 166 MA's), (83, 113888), (104, 114002), (112, 114026), (133, 114086), (162, 114197), (170, 114236), (177, 114260), (185, 114302), (211, 114401), (221, 114443), (222, 114449), (227, 114461), (237, 114524), (251, 114584), (252, 114587), (259, 114614), (272, 114656), (Start: 292 @114719 has 9 MA's), (351, 114875), (356, 114893), (359, 114908), (373, 115025), (379, 115064), (395, 115184), (403, 115226), (413, 115271), (415, 115280), (428, 115331), (441, 115373), (461, 115439), (464, 115448), (465, 115451), (467, 115457), (468, 115460), (469, 115469), (471, 115475), (474, 115490), (499, 115577), (530, 115682), (541, 115736), (556, 115823), (562, 115853), (572, 115883), (579, 115916), (581, 115925), (592, 115997), (596, 116027), (622, 116144), (632, 116189), (643, 116231), (680, 116375), (702, 116435), (738, 116537), (770, 116624), (772, 116627), (779, 116645), (791, 116681), (792, 116684), (813, 116744), (818, 116762), (851, 116858), (858, 116888), (864, 116906), (876, 116936), (911, 117029), (914, 117044), (939, 117125), (940, 117131), (944, 117143),

Gene: NootNoot_75 Start: 57480, Stop: 60764, Start Num: 68

Candidate Starts for NootNoot_75:

(Start: 68 @57480 has 63 MA's), (78, 57525), (84, 57555), (88, 57573), (Start: 89 @57579 has 8 MA's), (100, 57645), (157, 57858), (160, 57864), (182, 57960), (214, 58038), (235, 58143), (249, 58206), (250, 58212), (262, 58251), (298, 58368), (334, 58467), (358, 58578), (367, 58608), (371, 58647), (411, 58890), (471, 59034), (474, 59049), (498, 59145), (499, 59151), (502, 59175), (521, 59235), (543, 59298), (548, 59307), (564, 59379), (580, 59442), (592, 59514), (603, 59568), (606, 59577), (608, 59586), (610, 59595), (612, 59601), (632, 59682), (663, 59781), (675, 59844), (698, 59913), (702, 59925), (753, 60111), (760, 60129), (795, 60225), (807, 60258), (822, 60309), (835, 60354), (855, 60420), (864, 60450), (870, 60468), (881, 60504), (895, 60549), (896, 60558), (901, 60579), (911, 60600), (923, 60648), (928, 60663),

Gene: NorManre_84 Start: 53277, Stop: 56585, Start Num: 76

Candidate Starts for NorManre_84:

(Start: 76 @53277 has 4 MA's), (Start: 81 @53304 has 1 MA's), (Start: 89 @53340 has 8 MA's), (94, 53385), (104, 53427), (173, 53688), (204, 53790), (213, 53823), (233, 53919), (304, 54189), (Start: 307 @54198 has 8 MA's), (338, 54306), (346, 54351), (356, 54393), (378, 54525), (379, 54528), (380, 54558), (383, 54579), (395, 54648), (405, 54702), (430, 54801), (435, 54816), (455, 54858), (502, 55032), (508, 55065), (521, 55083), (530, 55101), (543, 55146), (544, 55149), (571, 55245), (580, 55287), (582, 55299), (587, 55335), (629, 55515), (640, 55557), (648, 55593), (666, 55647), (671, 55665), (692, 55761), (695, 55773), (795, 55968), (829, 56052), (862, 56157), (867, 56172), (879, 56208), (882, 56220), (884, 56226), (885, 56229), (893, 56256), (903, 56301), (935, 56409), (950, 56454), (958, 56478), (969, 56514),

Gene: Norm_209 Start: 113815, Stop: 117210, Start Num: 66

Candidate Starts for Norm_209:

(Start: 18 @113692 has 5 MA's), (Start: 23 @113722 has 44 MA's), (Start: 25 @113728 has 6 MA's), (Start: 32 @113740 has 9 MA's), (38, 113749), (Start: 66 @113815 has 166 MA's), (83, 113890), (104, 114004), (112, 114028), (133, 114088), (162, 114199), (170, 114238), (177, 114262), (185, 114304), (211, 114403), (221, 114445), (222, 114451), (227, 114463), (237, 114526), (251, 114586), (252, 114589), (259, 114616), (272, 114658), (Start: 292 @114721 has 9 MA's), (344, 114841), (351, 114877), (356, 114895), (359, 114910), (373, 115027), (379, 115066), (395, 115186), (403, 115228),

(413, 115273), (415, 115282), (428, 115333), (441, 115375), (461, 115441), (464, 115450), (465, 115453), (467, 115459), (468, 115462), (469, 115471), (471, 115477), (474, 115492), (499, 115579), (530, 115684), (541, 115738), (556, 115825), (562, 115855), (572, 115885), (579, 115918), (581, 115927), (592, 115999), (596, 116029), (622, 116146), (632, 116191), (643, 116233), (680, 116377), (702, 116437), (738, 116539), (770, 116626), (772, 116629), (779, 116647), (791, 116683), (792, 116686), (813, 116746), (818, 116764), (851, 116860), (858, 116890), (864, 116908), (876, 116938), (911, 117031), (914, 117046), (939, 117127), (940, 117133), (944, 117145),

Gene: NosilaM_62 Start: 48632, Stop: 45330, Start Num: 72

Candidate Starts for NosilaM_62:

(Start: 72 @48632 has 72 MA's), (Start: 89 @48536 has 8 MA's), (124, 48383), (127, 48374), (160, 48251), (204, 48092), (206, 48086), (212, 48062), (234, 47954), (261, 47843), (311, 47717), (356, 47546), (365, 47504), (372, 47453), (376, 47426), (378, 47411), (399, 47273), (410, 47222), (428, 47141), (460, 47075), (475, 47018), (491, 46958), (502, 46907), (530, 46838), (543, 46793), (586, 46601), (592, 46559), (593, 46550), (602, 46508), (603, 46505), (605, 46499), (610, 46481), (634, 46385), (648, 46331), (692, 46178), (711, 46118), (722, 46103), (759, 45974), (795, 45896), (817, 45836), (824, 45815), (825, 45812), (831, 45794), (855, 45710), (878, 45650), (879, 45647), (888, 45623), (905, 45554), (971, 45341),

Gene: Nova_66 Start: 50242, Stop: 53544, Start Num: 26

Candidate Starts for Nova_66:

(Start: 26 @50242 has 20 MA's), (Start: 61 @50329 has 1 MA's), (65, 50335), (Start: 72 @50344 has 72 MA's), (Start: 89 @50440 has 8 MA's), (127, 50596), (151, 50683), (152, 50686), (163, 50737), (233, 51001), (240, 51040), (258, 51112), (261, 51121), (283, 51196), (308, 51262), (309, 51268), (329, 51322), (338, 51340), (347, 51391), (348, 51394), (355, 51424), (371, 51508), (372, 51517), (376, 51544), (378, 51559), (405, 51736), (407, 51745), (435, 51850), (469, 51931), (482, 51991), (502, 52066), (508, 52099), (512, 52105), (526, 52126), (530, 52135), (543, 52180), (560, 52249), (565, 52264), (582, 52333), (592, 52396), (600, 52429), (601, 52432), (612, 52483), (631, 52558), (666, 52681), (671, 52699), (691, 52777), (692, 52780), (695, 52792), (710, 52837), (721, 52858), (724, 52870), (733, 52900), (740, 52921), (801, 52993), (829, 53050), (860, 53149), (882, 53215), (906, 53305), (916, 53335), (917, 53338), (927, 53368), (938, 53413), (951, 53455), (961, 53485), (964, 53497), (969, 53512), (971, 53521),

Gene: Nova53_75 Start: 59972, Stop: 63763, Start Num: 60

Candidate Starts for Nova53_75:

(60, 59972), (63, 59978), (85, 60059), (145, 60308), (170, 60410), (216, 60551), (232, 60629), (234, 60641), (241, 60674), (243, 60695), (251, 60722), (255, 60740), (262, 60758), (314, 60905), (319, 60920), (327, 60941), (334, 60974), (344, 61019), (369, 61124), (370, 61151), (395, 61325), (406, 61385), (439, 61499), (456, 61535), (460, 61541), (487, 61649), (496, 61676), (506, 61733), (516, 61760), (521, 61775), (536, 61817), (548, 61847), (565, 61919), (572, 61943), (603, 62105), (610, 62132), (637, 62240), (642, 62246), (650, 62282), (662, 62312), (665, 62327), (675, 62381), (686, 62426), (694, 62441), (717, 62519), (726, 62552), (750, 62654), (791, 62765), (799, 62789), (810, 62825), (837, 62903), (851, 62948), (854, 62963), (861, 62987), (864, 62996), (872, 63020), (905, 63137), (940, 63257), (941, 63260), (957, 63311), (965, 63338), (979, 63392), (980, 63398), (983, 63416), (984, 63440), (988, 63467), (989, 63473), (990, 63479), (994, 63530), (995, 63551), (996, 63563), (999, 63620), (1000, 63653), (1003, 63704), (1006, 63743), (1007, 63746),

Gene: NovaSharks_80 Start: 50500, Stop: 53745, Start Num: 89

Candidate Starts for NovaSharks_80:

(Start: 89 @50500 has 8 MA's), (94, 50545), (104, 50587), (173, 50848), (213, 50983), (233, 51079), (304, 51349), (Start: 307 @51358 has 8 MA's), (338, 51466), (346, 51511), (356, 51553), (370, 51631), (378, 51685), (379, 51688), (380, 51718), (395, 51808), (405, 51862), (430, 51961), (435, 51976), (455, 52018), (502, 52192), (508, 52225), (521, 52243), (530, 52261), (543, 52306), (544, 52309),

(571, 52405), (580, 52447), (582, 52459), (587, 52495), (629, 52675), (640, 52717), (648, 52753), (663, 52795), (666, 52807), (671, 52825), (692, 52921), (695, 52933), (795, 53128), (829, 53212), (862, 53317), (867, 53332), (873, 53347), (879, 53368), (882, 53380), (884, 53386), (885, 53389), (893, 53416), (903, 53461), (935, 53569), (950, 53614), (958, 53638), (969, 53674),

Gene: NovumRegina_60 Start: 48485, Stop: 45174, Start Num: 72

Candidate Starts for NovumRegina_60:

(3, 48728), (Start: 72 @48485 has 72 MA's), (84, 48413), (Start: 89 @48389 has 8 MA's), (94, 48344), (124, 48236), (127, 48227), (160, 48104), (204, 47945), (206, 47939), (212, 47915), (234, 47807), (240, 47777), (256, 47708), (311, 47570), (317, 47552), (356, 47399), (365, 47357), (376, 47279), (378, 47264), (399, 47126), (460, 46928), (474, 46874), (475, 46871), (491, 46811), (502, 46760), (530, 46691), (543, 46646), (593, 46406), (602, 46364), (603, 46361), (605, 46355), (610, 46337), (634, 46241), (648, 46187), (688, 46043), (692, 46034), (722, 45959), (744, 45884), (759, 45830), (779, 45788), (795, 45740), (824, 45659), (831, 45638), (857, 45548), (871, 45518), (878, 45494), (879, 45491), (930, 45308), (951, 45251),

Gene: NuevoMundo_212 Start: 115367, Stop: 118762, Start Num: 66

Candidate Starts for NuevoMundo_212:

(Start: 23 @115274 has 44 MA's), (Start: 25 @115280 has 6 MA's), (Start: 32 @115292 has 9 MA's), (38, 115301), (Start: 66 @115367 has 166 MA's), (83, 115442), (104, 115556), (112, 115580), (133, 115640), (162, 115751), (170, 115790), (177, 115814), (185, 115856), (211, 115955), (221, 115997), (222, 116003), (227, 116015), (237, 116078), (251, 116138), (252, 116141), (259, 116168), (272, 116210), (Start: 292 @116273 has 9 MA's), (351, 116429), (356, 116447), (359, 116462), (373, 116579), (379, 116618), (395, 116738), (403, 116780), (413, 116825), (415, 116834), (428, 116885), (441, 116927), (461, 116993), (464, 117002), (465, 117005), (467, 117011), (468, 117014), (469, 117023), (471, 117029), (474, 117044), (499, 117131), (530, 117236), (541, 117290), (556, 117377), (562, 117407), (572, 117437), (579, 117470), (581, 117479), (592, 117551), (596, 117581), (622, 117698), (632, 117743), (643, 117785), (680, 117929), (702, 117989), (738, 118091), (770, 118178), (772, 118181), (779, 118199), (791, 118235), (792, 118238), (813, 118298), (818, 118316), (851, 118412), (858, 118442), (864, 118460), (876, 118490), (911, 118583), (914, 118598), (939, 118679), (940, 118685), (944, 118697),

Gene: Oaker_77 Start: 56089, Stop: 59412, Start Num: 50

Candidate Starts for Oaker_77:

(Start: 50 @56089 has 1 MA's), (Start: 72 @56116 has 72 MA's), (84, 56188), (Start: 89 @56212 has 8 MA's), (92, 56245), (127, 56380), (153, 56473), (158, 56491), (169, 56539), (188, 56599), (233, 56791), (296, 57025), (325, 57082), (338, 57136), (346, 57181), (352, 57208), (359, 57238), (378, 57361), (381, 57400), (387, 57442), (401, 57520), (405, 57538), (410, 57556), (433, 57643), (475, 57799), (496, 57883), (509, 57961), (518, 57982), (520, 57991), (523, 57997), (528, 58006), (550, 58078), (553, 58093), (560, 58132), (564, 58144), (585, 58237), (586, 58243), (594, 58291), (603, 58333), (643, 58483), (646, 58495), (671, 58579), (705, 58720), (742, 58825), (825, 58924), (828, 58933), (852, 59011), (863, 59050), (870, 59065), (885, 59113), (912, 59209), (917, 59227), (926, 59254), (939, 59302), (949, 59332), (950, 59335), (954, 59350), (964, 59380), (966, 59389), (969, 59395), (970, 59398),

Gene: Oliynyk_55 Start: 40726, Stop: 37247, Start Num: 66

Candidate Starts for Oliynyk_55:

(Start: 32 @40795 has 9 MA's), (Start: 66 @40726 has 166 MA's), (83, 40654), (Start: 89 @40627 has 8 MA's), (91, 40612), (126, 40450), (132, 40423), (134, 40417), (156, 40327), (161, 40312), (173, 40258), (174, 40255), (198, 40159), (226, 40081), (255, 39934), (270, 39895), (282, 39850), (Start: 290 @39829 has 6 MA's), (295, 39814), (321, 39772), (326, 39760), (347, 39694), (350, 39682), (365, 39619), (381, 39490), (382, 39481), (388, 39445), (404, 39361), (407, 39343), (422, 39286), (423, 39283), (426, 39271), (469, 39133), (471, 39127), (474, 39112), (476, 39106), (485, 39067), (504,

38995), (514, 38962), (554, 38845), (558, 38821), (576, 38764), (580, 38740), (581, 38734), (592, 38665), (602, 38602), (618, 38536), (623, 38515), (630, 38497), (645, 38440), (647, 38431), (675, 38323), (678, 38314), (681, 38302), (684, 38281), (697, 38251), (706, 38224), (731, 38158), (733, 38149), (737, 38137), (765, 38050), (776, 38026), (792, 37978), (833, 37834), (855, 37759), (905, 37585), (914, 37549), (928, 37501), (936, 37468),

Gene: Onyinye_84 Start: 57643, Stop: 59931, Start Num: 285

Candidate Starts for Onyinye_84:

(247, 57520), (Start: 285 @57643 has 3 MA's), (304, 57676), (306, 57682), (338, 57772), (344, 57805), (349, 57829), (355, 57856), (371, 57940), (372, 57949), (373, 57952), (378, 57991), (379, 57994), (383, 58045), (397, 58123), (399, 58135), (469, 58363), (474, 58384), (491, 58447), (496, 58459), (508, 58531), (512, 58537), (528, 58561), (530, 58567), (535, 58582), (538, 58597), (544, 58615), (552, 58639), (560, 58681), (573, 58720), (580, 58753), (612, 58915), (614, 58924), (648, 59059), (660, 59086), (671, 59131), (701, 59245), (724, 59305), (849, 59521), (880, 59608), (881, 59611), (893, 59653), (939, 59818), (948, 59848), (963, 59896), (966, 59908), (971, 59923),

Gene: Oogie_96 Start: 71972, Stop: 74785, Start Num: 54

Candidate Starts for Oogie_96:

(Start: 46 @71957 has 1 MA's), (Start: 51 @71969 has 2 MA's), (Start: 54 @71972 has 8 MA's), (83, 72065), (92, 72125), (131, 72275), (132, 72278), (134, 72284), (145, 72326), (158, 72383), (163, 72413), (164, 72416), (180, 72479), (185, 72500), (186, 72503), (193, 72530), (216, 72620), (226, 72656), (235, 72713), (237, 72722), (273, 72854), (347, 73019), (351, 73037), (355, 73052), (357, 73058), (359, 73070), (367, 73097), (368, 73100), (375, 73160), (376, 73169), (377, 73172), (379, 73184), (382, 73229), (394, 73298), (397, 73322), (432, 73478), (438, 73496), (443, 73520), (448, 73538), (475, 73634), (483, 73676), (499, 73718), (500, 73727), (503, 73745), (504, 73751), (508, 73775), (512, 73781), (514, 73784), (521, 73802), (522, 73805), (554, 73898), (564, 73943), (566, 73949), (574, 73973), (575, 73976), (577, 73985), (578, 73991), (580, 74003), (600, 74120), (602, 74138), (603, 74141), (606, 74150), (635, 74264), (639, 74279), (675, 74426), (679, 74438), (681, 74444), (703, 74510), (708, 74528), (712, 74540), (714, 74549), (750, 74663), (754, 74675), (762, 74690), (787, 74765), (791, 74774),

Gene: OtterstedtS21_79 Start: 52012, Stop: 55257, Start Num: 89

Candidate Starts for OtterstedtS21_79:

(Start: 81 @51976 has 1 MA's), (Start: 89 @52012 has 8 MA's), (94, 52057), (104, 52099), (173, 52360), (204, 52462), (213, 52495), (233, 52591), (304, 52861), (Start: 307 @52870 has 8 MA's), (338, 52978), (346, 53023), (356, 53065), (378, 53197), (379, 53200), (380, 53230), (395, 53320), (405, 53374), (430, 53473), (435, 53488), (455, 53530), (502, 53704), (508, 53737), (521, 53755), (522, 53758), (530, 53773), (543, 53818), (544, 53821), (571, 53917), (580, 53959), (582, 53971), (587, 54007), (629, 54187), (640, 54229), (648, 54265), (666, 54319), (671, 54337), (692, 54433), (695, 54445), (795, 54640), (829, 54724), (862, 54829), (867, 54844), (879, 54880), (882, 54892), (884, 54898), (885, 54901), (893, 54928), (903, 54973), (935, 55081), (950, 55126), (958, 55150), (969, 55186),

Gene: Outis_61 Start: 48867, Stop: 45550, Start Num: 72

Candidate Starts for Outis_61:

(Start: 72 @48867 has 72 MA's), (80, 48810), (Start: 89 @48771 has 8 MA's), (124, 48618), (127, 48609), (160, 48486), (204, 48327), (206, 48321), (212, 48297), (234, 48189), (261, 48078), (311, 47952), (356, 47781), (365, 47739), (370, 47700), (376, 47661), (378, 47646), (399, 47508), (428, 47376), (460, 47310), (475, 47253), (491, 47193), (502, 47142), (530, 47073), (543, 47028), (593, 46785), (602, 46743), (603, 46740), (605, 46734), (610, 46716), (634, 46620), (648, 46566), (692, 46413), (708, 46362), (711, 46353), (759, 46209), (791, 46131), (795, 46116), (817, 46056), (824, 46035), (831, 46014), (846, 45966), (875, 45882), (878, 45870), (879, 45867), (905, 45774), (962, 45591), (971, 45561),

Gene: OverHedge_56 Start: 41131, Stop: 43434, Start Num: 287

Candidate Starts for OverHedge_56:

(Start: 287 @41131 has 29 MA's), (Start: 290 @41137 has 6 MA's), (324, 41215), (344, 41287), (348, 41308), (356, 41341), (359, 41356), (361, 41374), (375, 41449), (378, 41473), (381, 41512), (388, 41557), (391, 41569), (405, 41650), (435, 41764), (440, 41776), (471, 41851), (475, 41869), (493, 41947), (496, 41953), (498, 41962), (503, 41995), (508, 42025), (512, 42031), (526, 42052), (530, 42061), (538, 42091), (558, 42166), (560, 42175), (570, 42199), (571, 42205), (572, 42211), (575, 42220), (592, 42322), (608, 42394), (614, 42418), (635, 42502), (663, 42592), (666, 42604), (671, 42622), (687, 42700), (688, 42706), (692, 42715), (702, 42748), (729, 42820), (840, 43000), (850, 43030), (868, 43093), (892, 43165), (929, 43288), (938, 43321), (953, 43366), (966, 43411), (969, 43417),

Gene: Ozzie_52 Start: 40340, Stop: 36861, Start Num: 66

Candidate Starts for Ozzie_52:

(Start: 66 @40340 has 166 MA's), (83, 40268), (Start: 89 @40241 has 8 MA's), (91, 40226), (126, 40064), (132, 40037), (134, 40031), (156, 39941), (161, 39926), (173, 39872), (174, 39869), (198, 39773), (226, 39695), (255, 39548), (270, 39509), (282, 39464), (Start: 290 @39443 has 6 MA's), (295, 39428), (321, 39386), (326, 39374), (347, 39308), (350, 39296), (365, 39233), (381, 39104), (382, 39095), (388, 39059), (404, 38975), (407, 38957), (422, 38900), (423, 38897), (426, 38885), (469, 38747), (471, 38741), (474, 38726), (476, 38720), (482, 38687), (504, 38609), (514, 38576), (558, 38435), (576, 38378), (580, 38354), (581, 38348), (592, 38279), (602, 38216), (618, 38150), (623, 38129), (630, 38111), (645, 38054), (647, 38045), (675, 37937), (678, 37928), (681, 37916), (684, 37895), (697, 37865), (706, 37838), (731, 37772), (733, 37763), (737, 37751), (765, 37664), (776, 37640), (792, 37592), (833, 37448), (855, 37373), (905, 37199), (914, 37163), (928, 37115), (936, 37082),

Gene: OzzyJ_56 Start: 42394, Stop: 38909, Start Num: 66

Candidate Starts for OzzyJ_56:

(Start: 32 @42463 has 9 MA's), (Start: 66 @42394 has 166 MA's), (Start: 81 @42331 has 1 MA's), (83, 42322), (90, 42286), (108, 42187), (119, 42154), (126, 42118), (143, 42049), (156, 41995), (174, 41923), (182, 41887), (198, 41827), (255, 41602), (270, 41563), (277, 41536), (282, 41518), (Start: 290 @41497 has 6 MA's), (295, 41482), (321, 41440), (347, 41362), (350, 41350), (380, 41164), (381, 41158), (388, 41113), (404, 41029), (407, 41011), (422, 40954), (423, 40951), (426, 40939), (469, 40801), (471, 40795), (474, 40780), (476, 40774), (482, 40741), (504, 40663), (514, 40630), (558, 40489), (580, 40408), (581, 40402), (592, 40333), (599, 40291), (602, 40270), (608, 40249), (618, 40204), (645, 40108), (647, 40099), (649, 40093), (675, 39991), (678, 39982), (681, 39970), (684, 39949), (697, 39919), (706, 39892), (731, 39826), (733, 39817), (737, 39805), (765, 39718), (816, 39550), (833, 39502), (866, 39391), (875, 39370), (905, 39253), (908, 39244), (914, 39217), (928, 39169), (936, 39136), (976, 39004), (978, 38992),

Gene: PBI1_63 Start: 49783, Stop: 52983, Start Num: 72

Candidate Starts for PBI1_63:

(Start: 26 @49681 has 20 MA's), (Start: 61 @49768 has 1 MA's), (65, 49774), (Start: 72 @49783 has 72 MA's), (Start: 89 @49879 has 8 MA's), (127, 50035), (151, 50122), (152, 50125), (163, 50176), (233, 50440), (240, 50479), (258, 50551), (261, 50560), (283, 50635), (308, 50701), (309, 50707), (329, 50761), (338, 50779), (347, 50830), (348, 50833), (355, 50863), (371, 50947), (372, 50956), (376, 50983), (378, 50998), (405, 51175), (407, 51184), (435, 51289), (469, 51370), (482, 51430), (502, 51505), (508, 51538), (512, 51544), (526, 51565), (530, 51574), (543, 51619), (560, 51688), (565, 51703), (582, 51772), (592, 51835), (600, 51868), (601, 51871), (612, 51922), (631, 51997), (666, 52120), (671, 52138), (691, 52216), (692, 52219), (695, 52231), (710, 52276), (721, 52297), (724, 52309), (733, 52339), (740, 52360), (801, 52432), (829, 52489), (860, 52588), (882, 52654), (906, 52744), (916, 52774), (917, 52777), (927, 52807), (938, 52852), (951, 52894), (961, 52924),

(964, 52936), (969, 52951), (971, 52960),

Gene: PHTowN_51 Start: 38862, Stop: 35665, Start Num: 72

Candidate Starts for PHTowN_51:

(58, 38883), (Start: 72 @38862 has 72 MA's), (78, 38820), (Start: 89 @38766 has 8 MA's), (97, 38712), (114, 38643), (117, 38634), (120, 38625), (128, 38595), (137, 38562), (146, 38526), (154, 38484), (157, 38472), (170, 38418), (197, 38349), (202, 38310), (214, 38268), (218, 38247), (233, 38175), (241, 38133), (254, 38070), (255, 38067), (Start: 287 @37962 has 29 MA's), (291, 37953), (310, 37911), (316, 37896), (321, 37881), (356, 37755), (371, 37674), (376, 37638), (378, 37623), (379, 37620), (391, 37527), (407, 37437), (474, 37230), (481, 37197), (496, 37146), (508, 37074), (512, 37068), (530, 37038), (538, 37008), (559, 36927), (564, 36912), (588, 36798), (617, 36663), (661, 36519), (663, 36507), (666, 36495), (671, 36477), (688, 36384), (724, 36279), (742, 36222), (817, 36168), (825, 36144), (859, 36027), (916, 35856), (919, 35844), (927, 35823), (949, 35745), (951, 35739), (962, 35703), (966, 35688),

Gene: PLOT_66 Start: 49805, Stop: 53005, Start Num: 72

Candidate Starts for PLOT_66:

(Start: 26 @49703 has 20 MA's), (Start: 61 @49790 has 1 MA's), (Start: 72 @49805 has 72 MA's), (Start: 89 @49901 has 8 MA's), (127, 50057), (151, 50144), (152, 50147), (163, 50198), (233, 50462), (240, 50501), (258, 50573), (261, 50582), (283, 50657), (308, 50723), (309, 50729), (329, 50783), (338, 50801), (347, 50852), (348, 50855), (355, 50885), (371, 50969), (372, 50978), (376, 51005), (378, 51020), (405, 51197), (407, 51206), (435, 51311), (469, 51392), (502, 51527), (508, 51560), (512, 51566), (526, 51587), (530, 51596), (543, 51641), (560, 51710), (565, 51725), (572, 51746), (582, 51794), (592, 51857), (600, 51890), (601, 51893), (602, 51908), (612, 51944), (631, 52019), (666, 52142), (671, 52160), (691, 52238), (692, 52241), (695, 52253), (710, 52298), (721, 52319), (724, 52331), (733, 52361), (740, 52382), (801, 52454), (829, 52511), (860, 52610), (882, 52676), (906, 52766), (916, 52796), (917, 52799), (927, 52829), (938, 52874), (939, 52877), (951, 52916), (961, 52946), (964, 52958), (969, 52973), (971, 52982),

Gene: PacManQ_79 Start: 58543, Stop: 61827, Start Num: 68

Candidate Starts for PacManQ_79:

(Start: 68 @58543 has 63 MA's), (78, 58588), (84, 58618), (88, 58636), (Start: 89 @58642 has 8 MA's), (157, 58921), (182, 59023), (214, 59101), (235, 59206), (249, 59269), (250, 59275), (262, 59314), (298, 59431), (330, 59515), (358, 59641), (367, 59671), (371, 59710), (372, 59719), (403, 59917), (471, 60097), (497, 60202), (498, 60208), (499, 60214), (521, 60298), (534, 60328), (548, 60370), (554, 60397), (560, 60430), (564, 60442), (580, 60505), (592, 60577), (603, 60631), (606, 60640), (608, 60649), (610, 60658), (612, 60664), (675, 60907), (698, 60976), (702, 60988), (735, 61093), (795, 61288), (807, 61321), (822, 61372), (834, 61411), (835, 61417), (855, 61483), (870, 61531), (881, 61567), (895, 61612), (896, 61621), (911, 61663), (922, 61708), (923, 61711), (928, 61726),

Gene: Pakusa_93 Start: 69747, Stop: 72575, Start Num: 46

Candidate Starts for Pakusa_93:

(Start: 46 @69747 has 1 MA's), (Start: 51 @69759 has 2 MA's), (Start: 54 @69762 has 8 MA's), (83, 69855), (92, 69915), (131, 70065), (132, 70068), (134, 70074), (158, 70173), (163, 70203), (164, 70206), (180, 70269), (185, 70290), (186, 70293), (193, 70320), (222, 70437), (226, 70446), (235, 70503), (237, 70512), (253, 70578), (273, 70644), (347, 70809), (351, 70827), (355, 70842), (357, 70848), (359, 70860), (367, 70887), (368, 70890), (375, 70950), (376, 70959), (377, 70962), (379, 70974), (382, 71019), (394, 71088), (397, 71112), (432, 71268), (438, 71286), (443, 71310), (448, 71328), (475, 71424), (483, 71466), (487, 71472), (499, 71508), (500, 71517), (503, 71535), (504, 71541), (508, 71565), (512, 71571), (514, 71574), (521, 71592), (522, 71595), (554, 71688), (564, 71733), (566, 71739), (574, 71763), (575, 71766), (577, 71775), (578, 71781), (580, 71793), (600, 71910), (602, 71928), (603, 71931), (606, 71940), (635, 72054), (639, 72069), (675, 72216), (679, 72228), (681, 72234), (692, 72267), (703, 72300), (708, 72318), (712, 72330), (714, 72339), (750,

72453), (754, 72465), (762, 72480), (787, 72555), (791, 72564),

Gene: Papyrus_74 Start: 55529, Stop: 57841, Start Num: 292

Candidate Starts for Papyrus_74:

(Start: 292 @55529 has 9 MA's), (338, 55625), (345, 55664), (356, 55715), (357, 55718), (359, 55730), (368, 55760), (373, 55808), (378, 55844), (419, 56078), (427, 56111), (455, 56177), (475, 56255), (478, 56273), (515, 56420), (521, 56438), (530, 56456), (552, 56528), (553, 56531), (557, 56555), (560, 56570), (571, 56600), (577, 56624), (632, 56873), (644, 56915), (646, 56921), (648, 56933), (663, 56975), (671, 57005), (673, 57017), (685, 57077), (693, 57101), (706, 57143), (715, 57170), (731, 57206), (827, 57329), (828, 57332), (839, 57368), (872, 57467), (882, 57494), (884, 57500), (893, 57530), (928, 57659), (929, 57665), (946, 57722), (951, 57737), (954, 57749), (961, 57767), (966, 57788),

Gene: Paradiddles_75 Start: 57744, Stop: 61028, Start Num: 68

Candidate Starts for Paradiddles_75:

(Start: 68 @57744 has 63 MA's), (78, 57789), (84, 57819), (88, 57837), (Start: 89 @57843 has 8 MA's), (100, 57909), (157, 58122), (160, 58128), (182, 58224), (214, 58302), (235, 58407), (249, 58470), (250, 58476), (262, 58515), (298, 58632), (334, 58731), (358, 58842), (367, 58872), (371, 58911), (411, 59154), (471, 59298), (474, 59313), (497, 59403), (498, 59409), (499, 59415), (502, 59439), (521, 59499), (543, 59562), (548, 59571), (564, 59643), (580, 59706), (592, 59778), (603, 59832), (606, 59841), (608, 59850), (610, 59859), (612, 59865), (632, 59946), (663, 60045), (675, 60108), (698, 60177), (702, 60189), (753, 60375), (760, 60393), (795, 60489), (807, 60522), (822, 60573), (834, 60612), (835, 60618), (855, 60684), (864, 60714), (870, 60732), (881, 60768), (895, 60813), (896, 60822), (901, 60843), (911, 60864), (923, 60912), (928, 60927),

Gene: ParkTD_208 Start: 113377, Stop: 116772, Start Num: 66

Candidate Starts for ParkTD_208:

(Start: 23 @113284 has 44 MA's), (Start: 25 @113290 has 6 MA's), (Start: 32 @113302 has 9 MA's), (38, 113311), (Start: 66 @113377 has 166 MA's), (83, 113452), (104, 113566), (112, 113590), (133, 113650), (162, 113761), (170, 113800), (177, 113824), (185, 113866), (211, 113965), (221, 114007), (222, 114013), (227, 114025), (237, 114088), (251, 114148), (252, 114151), (259, 114178), (272, 114220), (Start: 292 @114283 has 9 MA's), (344, 114403), (351, 114439), (356, 114457), (359, 114472), (373, 114589), (379, 114628), (395, 114748), (403, 114790), (413, 114835), (415, 114844), (428, 114895), (441, 114937), (461, 115003), (464, 115012), (465, 115015), (467, 115021), (468, 115024), (469, 115033), (471, 115039), (474, 115054), (499, 115141), (530, 115246), (541, 115300), (556, 115387), (562, 115417), (572, 115447), (579, 115480), (581, 115489), (592, 115561), (596, 115591), (622, 115708), (632, 115753), (643, 115795), (680, 115939), (702, 115999), (738, 116101), (770, 116188), (772, 116191), (779, 116209), (791, 116245), (792, 116248), (813, 116308), (818, 116326), (851, 116422), (858, 116452), (864, 116470), (876, 116500), (911, 116593), (914, 116608), (939, 116689), (940, 116695), (944, 116707),

Gene: ParvusTarda_77 Start: 51186, Stop: 54527, Start Num: 69

Candidate Starts for ParvusTarda_77:

(41, 51138), (Start: 69 @51186 has 20 MA's), (Start: 81 @51246 has 1 MA's), (Start: 89 @51282 has 8 MA's), (94, 51327), (104, 51369), (173, 51630), (204, 51732), (213, 51765), (233, 51861), (304, 52131), (Start: 307 @52140 has 8 MA's), (338, 52248), (346, 52293), (356, 52335), (378, 52467), (379, 52470), (380, 52500), (383, 52521), (395, 52590), (405, 52644), (430, 52743), (435, 52758), (502, 52974), (508, 53007), (521, 53025), (530, 53043), (543, 53088), (544, 53091), (571, 53187), (580, 53229), (582, 53241), (587, 53277), (629, 53457), (640, 53499), (648, 53535), (666, 53589), (671, 53607), (692, 53703), (695, 53715), (795, 53910), (829, 53994), (862, 54099), (867, 54114), (879, 54150), (882, 54162), (884, 54168), (885, 54171), (893, 54198), (903, 54243), (935, 54351), (950, 54396), (958, 54420), (969, 54456),

Gene: Patelgo_60 Start: 49984, Stop: 53274, Start Num: 68

Candidate Starts for Patelgo_60:

(Start: 68 @49984 has 63 MA's), (74, 49999), (84, 50056), (88, 50074), (Start: 89 @50080 has 8 MA's), (140, 50290), (157, 50359), (160, 50365), (163, 50389), (172, 50419), (210, 50533), (214, 50539), (216, 50551), (235, 50644), (249, 50707), (250, 50713), (262, 50752), (289, 50842), (334, 50968), (358, 51079), (371, 51148), (375, 51175), (460, 51496), (471, 51535), (495, 51634), (498, 51646), (499, 51652), (502, 51676), (504, 51685), (514, 51718), (521, 51736), (543, 51799), (548, 51808), (562, 51874), (564, 51880), (580, 51943), (592, 52015), (603, 52069), (606, 52078), (608, 52087), (610, 52096), (612, 52102), (646, 52228), (666, 52294), (678, 52354), (679, 52357), (698, 52414), (704, 52432), (723, 52495), (737, 52537), (747, 52585), (799, 52735), (820, 52804), (822, 52810), (855, 52921), (857, 52930), (864, 52951), (885, 53014), (911, 53101), (925, 53152), (928, 53164), (942, 53218),

Gene: Patience_91 Start: 58279, Stop: 61512, Start Num: 72

Candidate Starts for Patience_91:

(Start: 52 @58252 has 1 MA's), (Start: 72 @58279 has 72 MA's), (Start: 89 @58375 has 8 MA's), (127, 58540), (159, 58654), (181, 58738), (198, 58789), (233, 58954), (373, 59452), (378, 59497), (381, 59536), (421, 59740), (444, 59821), (469, 59881), (480, 59932), (502, 60028), (504, 60037), (508, 60061), (509, 60067), (520, 60097), (523, 60103), (560, 60235), (561, 60238), (564, 60247), (577, 60289), (580, 60307), (603, 60439), (671, 60685), (708, 60835), (729, 60892), (742, 60934), (784, 60958), (829, 61027), (882, 61195), (906, 61285), (926, 61357), (948, 61432),

Gene: Patio_62 Start: 48881, Stop: 45567, Start Num: 72

Candidate Starts for Patio_62:

(1, 49133), (9, 49046), (15, 49019), (Start: 72 @48881 has 72 MA's), (Start: 89 @48785 has 8 MA's), (124, 48632), (127, 48623), (160, 48500), (204, 48341), (206, 48335), (234, 48203), (240, 48173), (249, 48134), (261, 48092), (284, 48011), (311, 47966), (356, 47795), (365, 47753), (376, 47675), (378, 47660), (399, 47522), (460, 47324), (475, 47267), (484, 47222), (502, 47156), (521, 47105), (530, 47087), (543, 47042), (593, 46799), (602, 46757), (603, 46754), (605, 46748), (610, 46730), (634, 46634), (640, 46616), (648, 46580), (688, 46436), (692, 46427), (699, 46403), (722, 46352), (759, 46223), (779, 46181), (795, 46133), (799, 46124), (817, 46073), (824, 46052), (831, 46031), (884, 45875), (889, 45860), (962, 45611),

Gene: Patos_84 Start: 53276, Stop: 56584, Start Num: 76

Candidate Starts for Patos_84:

(Start: 76 @53276 has 4 MA's), (Start: 81 @53303 has 1 MA's), (Start: 89 @53339 has 8 MA's), (94, 53384), (104, 53426), (173, 53687), (204, 53789), (213, 53822), (233, 53918), (304, 54188), (Start: 307 @54197 has 8 MA's), (338, 54305), (346, 54350), (356, 54392), (378, 54524), (379, 54527), (380, 54557), (383, 54578), (395, 54647), (405, 54701), (430, 54800), (435, 54815), (455, 54857), (502, 55031), (508, 55064), (521, 55082), (530, 55100), (543, 55145), (544, 55148), (571, 55244), (580, 55286), (582, 55298), (587, 55334), (629, 55514), (640, 55556), (648, 55592), (666, 55646), (671, 55664), (692, 55760), (695, 55772), (795, 55967), (829, 56051), (862, 56156), (867, 56171), (879, 56207), (882, 56219), (884, 56225), (885, 56228), (893, 56255), (903, 56300), (935, 56408), (950, 56453), (958, 56477), (969, 56513),

Gene: Patter_210 Start: 112391, Stop: 115786, Start Num: 66

Candidate Starts for Patter_210:

(Start: 23 @112298 has 44 MA's), (Start: 25 @112304 has 6 MA's), (Start: 32 @112316 has 9 MA's), (38, 112325), (Start: 66 @112391 has 166 MA's), (83, 112466), (104, 112580), (112, 112604), (133, 112664), (162, 112775), (170, 112814), (177, 112838), (185, 112880), (211, 112979), (221, 113021), (222, 113027), (227, 113039), (237, 113102), (251, 113162), (252, 113165), (259, 113192), (272, 113234), (Start: 292 @113297 has 9 MA's), (344, 113417), (351, 113453), (356, 113471), (359, 113486), (373, 113603), (379, 113642), (395, 113762), (403, 113804), (413, 113849), (415, 113858),

(428, 113909), (441, 113951), (461, 114017), (464, 114026), (465, 114029), (467, 114035), (468, 114038), (469, 114047), (471, 114053), (474, 114068), (499, 114155), (530, 114260), (541, 114314), (556, 114401), (562, 114431), (572, 114461), (579, 114494), (581, 114503), (592, 114575), (596, 114605), (622, 114722), (632, 114767), (643, 114809), (680, 114953), (702, 115013), (738, 115115), (770, 115202), (772, 115205), (779, 115223), (791, 115259), (792, 115262), (813, 115322), (818, 115340), (851, 115436), (858, 115466), (864, 115484), (876, 115514), (911, 115607), (914, 115622), (939, 115703), (940, 115709), (944, 115721),

Gene: Peebs_79 Start: 58897, Stop: 62181, Start Num: 68

Candidate Starts for Peebs_79:

(Start: 68 @58897 has 63 MA's), (78, 58942), (84, 58972), (88, 58990), (Start: 89 @58996 has 8 MA's), (157, 59275), (182, 59377), (214, 59455), (235, 59560), (249, 59623), (250, 59629), (262, 59668), (298, 59785), (330, 59869), (358, 59995), (367, 60025), (371, 60064), (372, 60073), (471, 60451), (497, 60556), (498, 60562), (499, 60568), (502, 60592), (521, 60652), (534, 60682), (535, 60685), (548, 60724), (554, 60751), (564, 60796), (580, 60859), (592, 60931), (603, 60985), (606, 60994), (608, 61003), (610, 61012), (612, 61018), (675, 61261), (698, 61330), (702, 61342), (735, 61447), (795, 61642), (807, 61675), (822, 61726), (835, 61771), (855, 61837), (870, 61885), (881, 61921), (895, 61966), (896, 61975), (911, 62017), (922, 62062), (923, 62065), (928, 62080),

Gene: Penelope2018_67 Start: 49737, Stop: 53039, Start Num: 26

Candidate Starts for Penelope2018_67:

(Start: 26 @49737 has 20 MA's), (Start: 61 @49824 has 1 MA's), (65, 49830), (Start: 72 @49839 has 72 MA's), (Start: 89 @49935 has 8 MA's), (127, 50091), (151, 50178), (152, 50181), (163, 50232), (233, 50496), (240, 50535), (258, 50607), (261, 50616), (283, 50691), (308, 50757), (309, 50763), (329, 50817), (338, 50835), (347, 50886), (348, 50889), (355, 50919), (371, 51003), (372, 51012), (376, 51039), (378, 51054), (405, 51231), (407, 51240), (435, 51345), (469, 51426), (482, 51486), (502, 51561), (508, 51594), (512, 51600), (526, 51621), (530, 51630), (543, 51675), (560, 51744), (565, 51759), (582, 51828), (592, 51891), (600, 51924), (601, 51927), (612, 51978), (631, 52053), (666, 52176), (671, 52194), (691, 52272), (692, 52275), (695, 52287), (710, 52332), (721, 52353), (724, 52365), (733, 52395), (740, 52416), (801, 52488), (829, 52545), (860, 52644), (882, 52710), (906, 52800), (916, 52830), (917, 52833), (927, 52863), (938, 52908), (951, 52950), (961, 52980), (964, 52992), (969, 53007), (971, 53016),

Gene: Pepperwood_80 Start: 59030, Stop: 62314, Start Num: 68

Candidate Starts for Pepperwood_80:

(Start: 68 @59030 has 63 MA's), (78, 59075), (84, 59105), (88, 59123), (Start: 89 @59129 has 8 MA's), (157, 59408), (214, 59588), (235, 59693), (249, 59756), (250, 59762), (262, 59801), (298, 59918), (330, 60002), (358, 60128), (367, 60158), (371, 60197), (372, 60206), (403, 60404), (471, 60584), (497, 60689), (498, 60695), (499, 60701), (521, 60785), (534, 60815), (548, 60857), (554, 60884), (560, 60917), (564, 60929), (580, 60992), (592, 61064), (603, 61118), (606, 61127), (608, 61136), (610, 61145), (612, 61151), (675, 61394), (698, 61463), (702, 61475), (735, 61580), (795, 61775), (807, 61808), (822, 61859), (835, 61904), (855, 61970), (870, 62018), (881, 62054), (895, 62099), (896, 62108), (911, 62150), (922, 62195), (923, 62198), (928, 62213),

Gene: Persimmon_77 Start: 57413, Stop: 60697, Start Num: 68

Candidate Starts for Persimmon_77:

(Start: 68 @57413 has 63 MA's), (78, 57458), (84, 57488), (88, 57506), (Start: 89 @57512 has 8 MA's), (100, 57578), (157, 57791), (160, 57797), (182, 57893), (214, 57971), (235, 58076), (249, 58139), (250, 58145), (262, 58184), (298, 58301), (334, 58400), (358, 58511), (367, 58541), (371, 58580), (411, 58823), (471, 58967), (474, 58982), (498, 59078), (499, 59084), (502, 59108), (521, 59168), (543, 59231), (548, 59240), (564, 59312), (580, 59375), (592, 59447), (603, 59501), (606, 59510), (608, 59519), (610, 59528), (612, 59534), (632, 59615), (663, 59714), (675, 59777), (698, 59846), (702, 59858), (753, 60044), (760, 60062), (795, 60158), (807, 60191), (822, 60242), (834, 60281),

(835, 60287), (855, 60353), (864, 60383), (870, 60401), (881, 60437), (895, 60482), (896, 60491), (901, 60512), (911, 60533), (923, 60581), (928, 60596),

Gene: PeteyPab_45 Start: 42797, Stop: 39504, Start Num: 72

Candidate Starts for PeteyPab_45:

(Start: 72 @42797 has 72 MA's), (80, 42740), (86, 42716), (Start: 89 @42701 has 8 MA's), (90, 42692), (127, 42545), (179, 42338), (191, 42263), (195, 42239), (204, 42185), (323, 41771), (347, 41669), (374, 41534), (376, 41516), (378, 41501), (391, 41405), (444, 41186), (445, 41183), (455, 41168), (468, 41138), (474, 41108), (502, 40991), (508, 40958), (525, 40931), (534, 40907), (571, 40760), (582, 40706), (585, 40685), (601, 40610), (603, 40592), (648, 40415), (661, 40385), (667, 40358), (671, 40343), (719, 40214), (746, 40181), (786, 40094), (829, 39980), (831, 39974), (834, 39962), (885, 39812), (886, 39809), (888, 39803), (893, 39785), (895, 39776), (898, 39758), (929, 39656), (935, 39632), (946, 39596), (948, 39590),

Gene: Phabba_203 Start: 109747, Stop: 113163, Start Num: 59

Candidate Starts for Phabba_203:

(Start: 59 @109747 has 3 MA's), (96, 109909), (113, 109972), (161, 110137), (185, 110245), (214, 110365), (221, 110398), (222, 110404), (235, 110470), (237, 110479), (251, 110536), (252, 110539), (259, 110566), (277, 110623), (283, 110644), (Start: 292 @110668 has 9 MA's), (356, 110842), (359, 110857), (360, 110860), (371, 110962), (391, 111106), (395, 111133), (415, 111229), (437, 111295), (451, 111352), (464, 111397), (465, 111400), (471, 111424), (476, 111445), (499, 111529), (500, 111538), (504, 111562), (544, 111697), (576, 111844), (577, 111850), (579, 111865), (581, 111874), (584, 111898), (590, 111943), (596, 111970), (603, 112000), (624, 112087), (632, 112123), (648, 112189), (663, 112231), (666, 112243), (669, 112252), (681, 112312), (690, 112354), (702, 112390), (737, 112489), (792, 112639), (807, 112672), (844, 112792), (845, 112795), (858, 112846), (864, 112864), (877, 112900), (889, 112930), (894, 112948), (910, 112984), (914, 112999), (932, 113065), (933, 113068), (940, 113086), (944, 113098), (957, 113137), (964, 113155),

Gene: Phalaborwa_70 Start: 50156, Stop: 53653, Start Num: 26

Candidate Starts for Phalaborwa_70:

(Start: 26 @50156 has 20 MA's), (Start: 72 @50258 has 72 MA's), (73, 50267), (Start: 81 @50318 has 1 MA's), (Start: 89 @50354 has 8 MA's), (124, 50501), (127, 50510), (136, 50546), (151, 50597), (152, 50600), (163, 50651), (168, 50666), (169, 50669), (233, 50915), (240, 50954), (261, 51035), (308, 51176), (309, 51182), (329, 51236), (338, 51254), (347, 51305), (348, 51308), (355, 51338), (371, 51422), (376, 51458), (378, 51473), (405, 51650), (407, 51659), (435, 51764), (469, 51845), (482, 51905), (502, 51980), (508, 52013), (512, 52019), (526, 52040), (530, 52049), (543, 52094), (560, 52163), (565, 52178), (572, 52199), (582, 52247), (600, 52343), (601, 52346), (602, 52361), (612, 52397), (614, 52406), (631, 52472), (666, 52595), (671, 52613), (692, 52694), (695, 52706), (721, 52772), (724, 52784), (733, 52814), (740, 52835), (756, 52913), (773, 52958), (783, 52991), (797, 53036), (811, 53099), (829, 53159), (860, 53258), (882, 53324), (906, 53414), (916, 53444), (917, 53447), (927, 53477), (938, 53522), (951, 53564), (961, 53594), (964, 53606), (969, 53621), (971, 53630),

Gene: Pharpay_56 Start: 41279, Stop: 43582, Start Num: 287

Candidate Starts for Pharpay_56:

(Start: 287 @41279 has 29 MA's), (Start: 290 @41285 has 6 MA's), (324, 41363), (344, 41435), (348, 41456), (356, 41489), (358, 41501), (359, 41504), (361, 41522), (375, 41597), (378, 41621), (381, 41660), (388, 41705), (391, 41717), (405, 41798), (435, 41912), (440, 41924), (471, 41999), (475, 42017), (493, 42095), (496, 42101), (498, 42110), (503, 42143), (508, 42173), (512, 42179), (526, 42200), (530, 42209), (538, 42239), (558, 42314), (560, 42323), (570, 42347), (571, 42353), (575, 42368), (580, 42395), (592, 42470), (608, 42542), (614, 42566), (635, 42650), (663, 42740), (666, 42752), (671, 42770), (687, 42848), (688, 42854), (692, 42863), (702, 42896), (729, 42968), (840, 43148), (850, 43178), (868, 43241), (892, 43313), (929, 43436), (938, 43469), (953, 43514), (966,

43559), (969, 43565),

Gene: Phettuccine_53 Start: 40232, Stop: 36753, Start Num: 66

Candidate Starts for Phettuccine_53:

(4, 40442), (Start: 66 @40232 has 166 MA's), (83, 40160), (Start: 89 @40133 has 8 MA's), (91, 40118), (126, 39956), (132, 39929), (134, 39923), (156, 39833), (161, 39818), (173, 39764), (174, 39761), (198, 39665), (226, 39587), (255, 39440), (270, 39401), (282, 39356), (Start: 290 @39335 has 6 MA's), (295, 39320), (321, 39278), (326, 39266), (347, 39200), (350, 39188), (365, 39125), (381, 38996), (382, 38987), (388, 38951), (404, 38867), (407, 38849), (422, 38792), (423, 38789), (426, 38777), (469, 38639), (471, 38633), (474, 38618), (476, 38612), (482, 38579), (504, 38501), (514, 38468), (558, 38327), (576, 38270), (580, 38246), (581, 38240), (592, 38171), (602, 38108), (618, 38042), (623, 38021), (630, 38003), (645, 37946), (647, 37937), (675, 37829), (678, 37820), (681, 37808), (684, 37787), (697, 37757), (706, 37730), (731, 37664), (733, 37655), (737, 37643), (765, 37556), (776, 37532), (792, 37484), (833, 37340), (855, 37265), (905, 37091), (914, 37055), (928, 37007), (936, 36974),

Gene: Phlegm_213 Start: 113080, Stop: 116475, Start Num: 66

Candidate Starts for Phlegm_213:

(Start: 23 @112987 has 44 MA's), (Start: 25 @112993 has 6 MA's), (Start: 32 @113005 has 9 MA's), (38, 113014), (Start: 66 @113080 has 166 MA's), (83, 113155), (104, 113269), (112, 113293), (133, 113353), (162, 113464), (170, 113503), (177, 113527), (185, 113569), (211, 113668), (221, 113710), (222, 113716), (227, 113728), (237, 113791), (251, 113851), (252, 113854), (259, 113881), (272, 113923), (Start: 292 @113986 has 9 MA's), (351, 114142), (356, 114160), (359, 114175), (373, 114292), (379, 114331), (395, 114451), (403, 114493), (413, 114538), (415, 114547), (428, 114598), (441, 114640), (461, 114706), (464, 114715), (465, 114718), (467, 114724), (468, 114727), (469, 114736), (471, 114742), (474, 114757), (499, 114844), (530, 114949), (541, 115003), (556, 115090), (562, 115120), (572, 115150), (579, 115183), (581, 115192), (592, 115264), (596, 115294), (622, 115411), (632, 115456), (643, 115498), (680, 115642), (702, 115702), (738, 115804), (770, 115891), (772, 115894), (779, 115912), (791, 115948), (792, 115951), (813, 116011), (818, 116029), (851, 116125), (858, 116155), (864, 116173), (876, 116203), (911, 116296), (914, 116311), (939, 116392), (940, 116398), (944, 116410),

Gene: Phomeo_59 Start: 48754, Stop: 45443, Start Num: 72

Candidate Starts for Phomeo_59:

(3, 48997), (Start: 72 @48754 has 72 MA's), (84, 48682), (Start: 89 @48658 has 8 MA's), (124, 48505), (127, 48496), (160, 48373), (204, 48214), (206, 48208), (212, 48184), (234, 48076), (240, 48046), (256, 47977), (311, 47839), (317, 47821), (356, 47668), (365, 47626), (376, 47548), (378, 47533), (399, 47395), (460, 47197), (474, 47143), (475, 47140), (491, 47080), (502, 47029), (530, 46960), (543, 46915), (593, 46675), (602, 46633), (603, 46630), (605, 46624), (610, 46606), (634, 46510), (648, 46456), (688, 46312), (692, 46303), (722, 46228), (744, 46153), (759, 46099), (779, 46057), (795, 46009), (824, 45928), (831, 45907), (857, 45817), (871, 45787), (878, 45763), (879, 45760), (930, 45577), (951, 45520),

Gene: Phox_210 Start: 113942, Stop: 117430, Start Num: 23

Candidate Starts for Phox_210:

(Start: 18 @113912 has 5 MA's), (Start: 23 @113942 has 44 MA's), (Start: 25 @113948 has 6 MA's), (Start: 32 @113960 has 9 MA's), (38, 113969), (Start: 66 @114035 has 166 MA's), (83, 114110), (104, 114224), (112, 114248), (133, 114308), (162, 114419), (170, 114458), (177, 114482), (185, 114524), (211, 114623), (221, 114665), (222, 114671), (227, 114683), (237, 114746), (251, 114806), (252, 114809), (259, 114836), (272, 114878), (Start: 292 @114941 has 9 MA's), (344, 115061), (351, 115097), (356, 115115), (359, 115130), (373, 115247), (379, 115286), (395, 115406), (403, 115448), (413, 115493), (415, 115502), (428, 115553), (441, 115595), (461, 115661), (464, 115670), (465, 115673), (467, 115679), (468, 115682), (469, 115691), (471, 115697), (474, 115712), (499, 115799),

(530, 115904), (541, 115958), (556, 116045), (562, 116075), (572, 116105), (579, 116138), (581, 116147), (592, 116219), (596, 116249), (622, 116366), (632, 116411), (643, 116453), (680, 116597), (702, 116657), (738, 116759), (770, 116846), (772, 116849), (779, 116867), (791, 116903), (792, 116906), (813, 116966), (818, 116984), (851, 117080), (858, 117110), (864, 117128), (876, 117158), (911, 117251), (914, 117266), (939, 117347), (940, 117353), (944, 117365),

Gene: Phrappuccino_119 Start: 86091, Stop: 89597, Start Num: 40

Candidate Starts for Phrappuccino_119:

(Start: 40 @86091 has 2 MA's), (Start: 66 @86145 has 166 MA's), (83, 86217), (106, 86340), (121, 86376), (170, 86565), (171, 86568), (198, 86688), (207, 86733), (211, 86760), (221, 86802), (222, 86808), (230, 86841), (234, 86871), (252, 86937), (259, 86964), (269, 86991), (288, 87057), (Start: 292 @87066 has 9 MA's), (314, 87099), (334, 87144), (344, 87186), (357, 87243), (359, 87255), (363, 87291), (366, 87318), (371, 87360), (373, 87372), (375, 87387), (388, 87492), (403, 87573), (409, 87597), (415, 87627), (441, 87732), (464, 87807), (474, 87849), (499, 87942), (501, 87960), (503, 87969), (540, 88080), (562, 88170), (576, 88212), (588, 88290), (592, 88311), (602, 88362), (636, 88506), (663, 88611), (679, 88686), (692, 88719), (731, 88827), (802, 89046), (804, 89052), (854, 89241), (858, 89256), (887, 89334), (911, 89409), (924, 89457), (939, 89505), (940, 89511), (957, 89559),

Gene: Phredrick_60 Start: 47859, Stop: 51149, Start Num: 68

Candidate Starts for Phredrick_60:

(Start: 68 @47859 has 63 MA's), (75, 47880), (79, 47910), (84, 47931), (Start: 89 @47955 has 8 MA's), (157, 48234), (172, 48294), (210, 48408), (214, 48414), (216, 48426), (235, 48519), (249, 48582), (250, 48588), (262, 48627), (271, 48654), (334, 48843), (338, 48858), (371, 49023), (378, 49071), (460, 49371), (471, 49410), (499, 49527), (504, 49560), (514, 49593), (521, 49611), (535, 49644), (548, 49683), (562, 49749), (564, 49755), (580, 49818), (592, 49890), (603, 49944), (606, 49953), (610, 49971), (612, 49977), (643, 50091), (663, 50157), (666, 50169), (678, 50229), (679, 50232), (704, 50307), (723, 50370), (737, 50412), (774, 50532), (799, 50610), (820, 50679), (822, 50685), (851, 50778), (855, 50796), (857, 50805), (864, 50826), (874, 50856), (885, 50889), (911, 50976), (913, 50988), (919, 51012), (928, 51039),

Gene: Phreeze_76 Start: 55086, Stop: 58382, Start Num: 72

Candidate Starts for Phreeze_76:

(Start: 50 @55059 has 1 MA's), (Start: 72 @55086 has 72 MA's), (84, 55158), (Start: 89 @55182 has 8 MA's), (90, 55191), (92, 55215), (127, 55350), (153, 55443), (158, 55461), (169, 55509), (188, 55569), (233, 55761), (296, 55995), (325, 56052), (338, 56106), (346, 56151), (352, 56178), (359, 56208), (378, 56331), (381, 56370), (387, 56412), (401, 56490), (405, 56508), (410, 56526), (412, 56538), (433, 56613), (475, 56769), (496, 56853), (509, 56931), (518, 56952), (520, 56961), (523, 56967), (528, 56976), (550, 57048), (553, 57063), (560, 57102), (564, 57114), (585, 57207), (586, 57213), (594, 57261), (603, 57303), (643, 57453), (646, 57465), (671, 57549), (705, 57690), (742, 57795), (825, 57894), (828, 57903), (852, 57981), (863, 58020), (870, 58035), (885, 58083), (912, 58179), (917, 58197), (926, 58224), (939, 58272), (949, 58302), (950, 58305), (954, 58320), (964, 58350), (966, 58359), (969, 58365), (970, 58368),

Gene: PhunaPhoke_57 Start: 41249, Stop: 43552, Start Num: 287

Candidate Starts for PhunaPhoke_57:

(Start: 287 @41249 has 29 MA's), (Start: 290 @41255 has 6 MA's), (324, 41333), (344, 41405), (348, 41426), (356, 41459), (358, 41471), (359, 41474), (361, 41492), (375, 41567), (378, 41591), (381, 41630), (388, 41675), (391, 41687), (405, 41768), (435, 41882), (440, 41894), (471, 41969), (475, 41987), (493, 42065), (496, 42071), (498, 42080), (503, 42113), (508, 42143), (512, 42149), (526, 42170), (530, 42179), (538, 42209), (558, 42284), (560, 42293), (570, 42317), (571, 42323), (572, 42329), (592, 42440), (608, 42512), (614, 42536), (635, 42620), (663, 42710), (666, 42722), (671, 42740), (687, 42818), (688, 42824), (692, 42833), (702, 42866), (729, 42938), (840, 43118), (850,

43148), (868, 43211), (892, 43283), (929, 43406), (938, 43439), (953, 43484), (966, 43529), (969, 43535),

Gene: Phusco_207 Start: 111912, Stop: 115307, Start Num: 66

Candidate Starts for Phusco_207:

(Start: 23 @111819 has 44 MA's), (Start: 25 @111825 has 6 MA's), (Start: 32 @111837 has 9 MA's), (38, 111846), (Start: 66 @111912 has 166 MA's), (83, 111987), (104, 112101), (112, 112125), (133, 112185), (162, 112296), (170, 112335), (177, 112359), (185, 112401), (211, 112500), (221, 112542), (222, 112548), (227, 112560), (237, 112623), (251, 112683), (252, 112686), (259, 112713), (272, 112755), (Start: 292 @112818 has 9 MA's), (351, 112974), (356, 112992), (359, 113007), (373, 113124), (379, 113163), (395, 113283), (403, 113325), (413, 113370), (415, 113379), (428, 113430), (441, 113472), (461, 113538), (464, 113547), (465, 113550), (467, 113556), (468, 113559), (469, 113568), (471, 113574), (474, 113589), (499, 113676), (530, 113781), (541, 113835), (556, 113922), (562, 113952), (572, 113982), (579, 114015), (581, 114024), (592, 114096), (596, 114126), (622, 114243), (632, 114288), (643, 114330), (680, 114474), (702, 114534), (738, 114636), (770, 114723), (772, 114726), (779, 114744), (791, 114780), (792, 114783), (813, 114843), (818, 114861), (851, 114957), (858, 114987), (864, 115005), (876, 115035), (911, 115128), (914, 115143), (939, 115224), (940, 115230), (944, 115242),

Gene: Pier_210 Start: 114837, Stop: 118307, Start Num: 32

Candidate Starts for Pier_210:

(10, 114744), (Start: 23 @114819 has 44 MA's), (Start: 25 @114825 has 6 MA's), (Start: 32 @114837 has 9 MA's), (38, 114846), (Start: 66 @114912 has 166 MA's), (83, 114987), (104, 115101), (112, 115125), (133, 115185), (162, 115296), (170, 115335), (177, 115359), (185, 115401), (211, 115500), (221, 115542), (222, 115548), (227, 115560), (237, 115623), (251, 115683), (252, 115686), (259, 115713), (272, 115755), (Start: 292 @115818 has 9 MA's), (351, 115974), (356, 115992), (359, 116007), (373, 116124), (379, 116163), (395, 116283), (403, 116325), (413, 116370), (415, 116379), (428, 116430), (441, 116472), (461, 116538), (464, 116547), (465, 116550), (467, 116556), (468, 116559), (469, 116568), (471, 116574), (474, 116589), (499, 116676), (530, 116781), (541, 116835), (556, 116922), (562, 116952), (572, 116982), (579, 117015), (581, 117024), (592, 117096), (596, 117126), (622, 117243), (632, 117288), (643, 117330), (680, 117474), (702, 117534), (738, 117636), (770, 117723), (772, 117726), (779, 117744), (791, 117780), (792, 117783), (813, 117843), (818, 117861), (851, 117957), (858, 117987), (864, 118005), (876, 118035), (911, 118128), (914, 118143), (939, 118224), (940, 118230), (944, 118242),

Gene: Pinkcreek_193 Start: 112195, Stop: 115683, Start Num: 23

Candidate Starts for Pinkcreek_193:

(Start: 23 @112195 has 44 MA's), (Start: 25 @112201 has 6 MA's), (Start: 32 @112213 has 9 MA's), (38, 112222), (Start: 66 @112288 has 166 MA's), (83, 112363), (104, 112477), (112, 112501), (133, 112561), (162, 112672), (170, 112711), (177, 112735), (185, 112777), (211, 112876), (221, 112918), (222, 112924), (227, 112936), (237, 112999), (251, 113059), (252, 113062), (259, 113089), (272, 113131), (Start: 292 @113194 has 9 MA's), (344, 113314), (351, 113350), (356, 113368), (359, 113383), (373, 113500), (379, 113539), (395, 113659), (403, 113701), (413, 113746), (415, 113755), (428, 113806), (441, 113848), (461, 113914), (464, 113923), (465, 113926), (467, 113932), (468, 113935), (469, 113944), (471, 113950), (474, 113965), (499, 114052), (530, 114157), (541, 114211), (556, 114298), (562, 114328), (572, 114358), (579, 114391), (581, 114400), (592, 114472), (596, 114502), (622, 114619), (632, 114664), (643, 114706), (680, 114850), (702, 114910), (738, 115012), (770, 115099), (772, 115102), (779, 115120), (791, 115156), (792, 115159), (813, 115219), (818, 115237), (851, 115333), (858, 115363), (864, 115381), (876, 115411), (911, 115504), (914, 115519), (939, 115600), (940, 115606), (944, 115618),

Gene: PinkiePie_78 Start: 58566, Stop: 61850, Start Num: 68

Candidate Starts for PinkiePie_78:

(Start: 68 @58566 has 63 MA's), (78, 58611), (84, 58641), (88, 58659), (Start: 89 @58665 has 8 MA's), (100, 58731), (157, 58944), (160, 58950), (182, 59046), (214, 59124), (235, 59229), (249, 59292), (250, 59298), (262, 59337), (298, 59454), (334, 59553), (358, 59664), (367, 59694), (371, 59733), (411, 59976), (471, 60120), (474, 60135), (498, 60231), (499, 60237), (502, 60261), (521, 60321), (543, 60384), (548, 60393), (564, 60465), (580, 60528), (592, 60600), (603, 60654), (606, 60663), (608, 60672), (610, 60681), (612, 60687), (632, 60768), (663, 60867), (675, 60930), (698, 60999), (702, 61011), (753, 61197), (760, 61215), (795, 61311), (807, 61344), (822, 61395), (834, 61434), (835, 61440), (855, 61506), (864, 61536), (870, 61554), (881, 61590), (895, 61635), (896, 61644), (901, 61665), (911, 61686), (923, 61734), (928, 61749),

Gene: Pio_217 Start: 116011, Stop: 119499, Start Num: 23

Candidate Starts for Pio_217:

(Start: 23 @116011 has 44 MA's), (Start: 25 @116017 has 6 MA's), (Start: 32 @116029 has 9 MA's), (38, 116038), (Start: 66 @116104 has 166 MA's), (83, 116179), (104, 116293), (112, 116317), (133, 116377), (162, 116488), (170, 116527), (177, 116551), (185, 116593), (211, 116692), (221, 116734), (222, 116740), (227, 116752), (237, 116815), (251, 116875), (252, 116878), (259, 116905), (272, 116947), (Start: 292 @117010 has 9 MA's), (351, 117166), (356, 117184), (359, 117199), (373, 117316), (379, 117355), (395, 117475), (403, 117517), (413, 117562), (415, 117571), (428, 117622), (441, 117664), (461, 117730), (464, 117739), (465, 117742), (467, 117748), (468, 117751), (469, 117760), (471, 117766), (474, 117781), (499, 117868), (530, 117973), (541, 118027), (556, 118114), (562, 118144), (572, 118174), (579, 118207), (581, 118216), (592, 118288), (596, 118318), (622, 118435), (632, 118480), (643, 118522), (680, 118666), (702, 118726), (738, 118828), (770, 118915), (772, 118918), (779, 118936), (791, 118972), (792, 118975), (813, 119035), (818, 119053), (851, 119149), (858, 119179), (864, 119197), (876, 119227), (911, 119320), (914, 119335), (939, 119416), (940, 119422), (944, 119434),

Gene: Pivoine_210 Start: 113080, Stop: 116475, Start Num: 66

Candidate Starts for Pivoine_210:

(Start: 23 @112987 has 44 MA's), (Start: 25 @112993 has 6 MA's), (Start: 32 @113005 has 9 MA's), (38, 113014), (Start: 66 @113080 has 166 MA's), (83, 113155), (104, 113269), (112, 113293), (133, 113353), (162, 113464), (170, 113503), (177, 113527), (185, 113569), (211, 113668), (221, 113710), (222, 113716), (227, 113728), (237, 113791), (251, 113851), (252, 113854), (259, 113881), (272, 113923), (Start: 292 @113986 has 9 MA's), (344, 114106), (351, 114142), (356, 114160), (359, 114175), (373, 114292), (379, 114331), (395, 114451), (403, 114493), (413, 114538), (415, 114547), (428, 114598), (441, 114640), (461, 114706), (464, 114715), (465, 114718), (467, 114724), (468, 114727), (469, 114736), (471, 114742), (474, 114757), (499, 114844), (530, 114949), (541, 115003), (556, 115090), (562, 115120), (572, 115150), (579, 115183), (581, 115192), (592, 115264), (596, 115294), (622, 115411), (632, 115456), (643, 115498), (680, 115642), (702, 115702), (738, 115804), (770, 115891), (772, 115894), (779, 115912), (791, 115948), (792, 115951), (813, 116011), (818, 116029), (851, 116125), (858, 116155), (864, 116173), (876, 116203), (911, 116296), (914, 116311), (939, 116392), (940, 116398), (944, 116410),

Gene: Pleakley_67 Start: 47999, Stop: 44610, Start Num: 37

Candidate Starts for Pleakley_67:

(20, 48050), (Start: 37 @47999 has 2 MA's), (41, 47981), (49, 47954), (Start: 72 @47930 has 72 MA's), (86, 47849), (Start: 89 @47834 has 8 MA's), (96, 47783), (124, 47681), (127, 47672), (155, 47567), (160, 47549), (186, 47456), (204, 47390), (206, 47384), (209, 47372), (226, 47306), (234, 47252), (261, 47141), (267, 47120), (284, 47060), (294, 47033), (311, 47015), (344, 46898), (376, 46724), (378, 46709), (399, 46571), (419, 46478), (428, 46439), (460, 46373), (469, 46340), (475, 46316), (491, 46256), (502, 46205), (503, 46202), (504, 46196), (508, 46172), (521, 46154), (530, 46136), (543, 46091), (593, 45851), (601, 45824), (603, 45806), (605, 45800), (610, 45782), (634, 45686), (640, 45668), (646, 45644), (648, 45632), (682, 45500), (690, 45479), (692, 45473), (701, 45443), (759, 45266), (778, 45230), (795, 45179), (817, 45119), (824, 45098), (831, 45077), (889, 44903),

(951, 44690), (971, 44624),

Gene: Pleione_213 Start: 113768, Stop: 117250, Start Num: 25

Candidate Starts for Pleione_213:

(Start: 23 @113762 has 44 MA's), (Start: 25 @113768 has 6 MA's), (Start: 32 @113780 has 9 MA's), (38, 113789), (Start: 66 @113855 has 166 MA's), (83, 113930), (104, 114044), (112, 114068), (133, 114128), (162, 114239), (170, 114278), (177, 114302), (185, 114344), (211, 114443), (221, 114485), (222, 114491), (227, 114503), (237, 114566), (251, 114626), (252, 114629), (259, 114656), (272, 114698), (Start: 292 @114761 has 9 MA's), (344, 114881), (351, 114917), (356, 114935), (359, 114950), (373, 115067), (379, 115106), (395, 115226), (403, 115268), (413, 115313), (415, 115322), (428, 115373), (441, 115415), (461, 115481), (464, 115490), (465, 115493), (467, 115499), (468, 115502), (469, 115511), (471, 115517), (474, 115532), (499, 115619), (530, 115724), (541, 115778), (556, 115865), (562, 115895), (572, 115925), (579, 115958), (581, 115967), (592, 116039), (596, 116069), (622, 116186), (632, 116231), (643, 116273), (680, 116417), (702, 116477), (738, 116579), (770, 116666), (772, 116669), (779, 116687), (791, 116723), (792, 116726), (813, 116786), (818, 116804), (851, 116900), (858, 116930), (864, 116948), (876, 116978), (911, 117071), (914, 117086), (939, 117167), (940, 117173), (944, 117185),

Gene: Polyuki_59 Start: 45773, Stop: 42357, Start Num: 72

Candidate Starts for Polyuki_59:

(Start: 72 @45773 has 72 MA's), (86, 45692), (Start: 89 @45677 has 8 MA's), (108, 45569), (110, 45563), (127, 45515), (148, 45434), (160, 45392), (217, 45182), (220, 45167), (222, 45158), (229, 45134), (233, 45104), (240, 45065), (261, 44984), (273, 44942), (318, 44807), (347, 44693), (359, 44642), (361, 44624), (365, 44615), (376, 44537), (378, 44522), (381, 44483), (388, 44444), (405, 44351), (417, 44300), (419, 44294), (428, 44255), (471, 44150), (474, 44135), (475, 44132), (502, 44018), (503, 44015), (508, 43985), (521, 43967), (522, 43964), (525, 43958), (527, 43955), (536, 43922), (543, 43901), (582, 43733), (594, 43655), (602, 43616), (603, 43613), (605, 43607), (610, 43589), (634, 43493), (640, 43475), (648, 43439), (671, 43367), (692, 43274), (695, 43262), (718, 43199), (737, 43142), (771, 43013), (781, 42983), (802, 42923), (803, 42920), (817, 42866), (846, 42776), (855, 42740), (874, 42695), (878, 42680), (892, 42638), (902, 42593), (919, 42539), (922, 42530), (927, 42518), (928, 42512), (930, 42494), (948, 42443), (949, 42440), (962, 42398),

Gene: PotatoChip_46 Start: 42799, Stop: 39506, Start Num: 72

Candidate Starts for PotatoChip_46:

(Start: 72 @42799 has 72 MA's), (80, 42742), (86, 42718), (Start: 89 @42703 has 8 MA's), (90, 42694), (127, 42547), (179, 42340), (191, 42265), (195, 42241), (204, 42187), (323, 41773), (347, 41671), (374, 41536), (376, 41518), (378, 41503), (391, 41407), (444, 41188), (445, 41185), (455, 41170), (468, 41140), (474, 41110), (502, 40993), (508, 40960), (525, 40933), (534, 40909), (571, 40762), (582, 40708), (585, 40687), (601, 40612), (603, 40594), (648, 40417), (661, 40387), (667, 40360), (671, 40345), (719, 40216), (746, 40183), (786, 40096), (829, 39982), (831, 39976), (834, 39964), (885, 39814), (886, 39811), (888, 39805), (893, 39787), (895, 39778), (898, 39760), (929, 39658), (935, 39634), (946, 39598), (948, 39592),

Gene: Potty_56 Start: 41179, Stop: 43482, Start Num: 287

Candidate Starts for Potty_56:

(Start: 287 @41179 has 29 MA's), (Start: 290 @41185 has 6 MA's), (324, 41263), (344, 41335), (348, 41356), (356, 41389), (358, 41401), (359, 41404), (361, 41422), (375, 41497), (378, 41521), (381, 41560), (388, 41605), (391, 41617), (405, 41698), (435, 41812), (440, 41824), (471, 41899), (475, 41917), (493, 41995), (496, 42001), (498, 42010), (503, 42043), (508, 42073), (512, 42079), (526, 42100), (530, 42109), (538, 42139), (558, 42214), (560, 42223), (570, 42247), (571, 42253), (572, 42259), (575, 42268), (592, 42370), (608, 42442), (614, 42466), (635, 42550), (663, 42640), (666, 42652), (671, 42670), (687, 42748), (688, 42754), (692, 42763), (702, 42796), (729, 42868), (840, 43048), (850, 43078), (868, 43141), (892, 43213), (929, 43336), (938, 43369), (953, 43414), (966,

43459), (969, 43465),

Gene: Poultruss_56 Start: 41476, Stop: 43779, Start Num: 287

Candidate Starts for Poultruss_56:

(Start: 287 @41476 has 29 MA's), (Start: 290 @41482 has 6 MA's), (324, 41560), (344, 41632), (348, 41653), (356, 41686), (358, 41698), (359, 41701), (361, 41719), (364, 41725), (375, 41794), (378, 41818), (381, 41857), (388, 41902), (391, 41914), (405, 41995), (435, 42109), (440, 42121), (471, 42196), (475, 42214), (493, 42292), (496, 42298), (498, 42307), (503, 42340), (508, 42370), (512, 42376), (526, 42397), (530, 42406), (538, 42436), (558, 42511), (560, 42520), (570, 42544), (571, 42550), (572, 42556), (575, 42565), (592, 42667), (608, 42739), (614, 42763), (635, 42847), (663, 42937), (666, 42949), (671, 42967), (687, 43045), (688, 43051), (692, 43060), (702, 43093), (729, 43165), (840, 43345), (850, 43375), (868, 43438), (892, 43510), (929, 43633), (938, 43666), (953, 43711), (966, 43756), (969, 43762),

Gene: Prager_67 Start: 49797, Stop: 53099, Start Num: 26

Candidate Starts for Prager_67:

(Start: 26 @49797 has 20 MA's), (Start: 61 @49884 has 1 MA's), (65, 49890), (Start: 72 @49899 has 72 MA's), (Start: 89 @49995 has 8 MA's), (127, 50151), (151, 50238), (152, 50241), (163, 50292), (233, 50556), (240, 50595), (258, 50667), (261, 50676), (283, 50751), (308, 50817), (309, 50823), (329, 50877), (338, 50895), (347, 50946), (348, 50949), (355, 50979), (371, 51063), (372, 51072), (376, 51099), (378, 51114), (405, 51291), (407, 51300), (435, 51405), (469, 51486), (482, 51546), (502, 51621), (508, 51654), (512, 51660), (526, 51681), (530, 51690), (543, 51735), (560, 51804), (565, 51819), (582, 51888), (592, 51951), (600, 51984), (601, 51987), (612, 52038), (631, 52113), (666, 52236), (671, 52254), (691, 52332), (692, 52335), (695, 52347), (710, 52392), (721, 52413), (724, 52425), (733, 52455), (740, 52476), (801, 52548), (829, 52605), (860, 52704), (882, 52770), (906, 52860), (916, 52890), (917, 52893), (927, 52923), (938, 52968), (951, 53010), (961, 53040), (964, 53052), (969, 53067), (971, 53076),

Gene: Predator_76 Start: 54791, Stop: 58105, Start Num: 72

Candidate Starts for Predator_76:

(Start: 50 @54761 has 1 MA's), (Start: 72 @54791 has 72 MA's), (84, 54863), (86, 54872), (Start: 89 @54887 has 8 MA's), (90, 54896), (91, 54902), (92, 54920), (127, 55055), (136, 55091), (152, 55145), (169, 55214), (197, 55292), (233, 55466), (242, 55514), (301, 55718), (325, 55790), (326, 55793), (346, 55889), (347, 55895), (352, 55916), (355, 55928), (356, 55931), (359, 55946), (373, 56024), (378, 56069), (381, 56108), (389, 56156), (392, 56168), (399, 56213), (404, 56237), (405, 56246), (410, 56264), (433, 56351), (440, 56381), (458, 56414), (475, 56477), (496, 56561), (502, 56600), (509, 56639), (518, 56660), (520, 56669), (523, 56675), (528, 56684), (531, 56693), (565, 56825), (601, 56993), (603, 57011), (606, 57020), (614, 57053), (646, 57173), (671, 57257), (720, 57437), (794, 57566), (828, 57626), (829, 57629), (830, 57632), (852, 57704), (870, 57758), (885, 57806), (917, 57920), (926, 57947), (939, 57995), (948, 58022), (954, 58043), (962, 58067),

Gene: Primadonna_204 Start: 112741, Stop: 116136, Start Num: 66

Candidate Starts for Primadonna_204:

(Start: 23 @112648 has 44 MA's), (Start: 25 @112654 has 6 MA's), (Start: 32 @112666 has 9 MA's), (38, 112675), (Start: 66 @112741 has 166 MA's), (83, 112816), (104, 112930), (112, 112954), (133, 113014), (162, 113125), (170, 113164), (177, 113188), (185, 113230), (211, 113329), (221, 113371), (222, 113377), (227, 113389), (237, 113452), (251, 113512), (252, 113515), (259, 113542), (272, 113584), (Start: 292 @113647 has 9 MA's), (351, 113803), (356, 113821), (359, 113836), (373, 113953), (379, 113992), (395, 114112), (403, 114154), (413, 114199), (415, 114208), (428, 114259), (441, 114301), (461, 114367), (464, 114376), (465, 114379), (467, 114385), (468, 114388), (469, 114397), (471, 114403), (474, 114418), (499, 114505), (530, 114610), (541, 114664), (556, 114751), (562, 114781), (572, 114811), (579, 114844), (581, 114853), (592, 114925), (596, 114955), (622, 115072), (632, 115117), (643, 115159), (680, 115303), (702, 115363), (738, 115465), (770, 115552),

(772, 115555), (779, 115573), (791, 115609), (792, 115612), (813, 115672), (818, 115690), (851, 115786), (858, 115816), (864, 115834), (876, 115864), (911, 115957), (914, 115972), (939, 116053), (940, 116059), (944, 116071),

Gene: Puissant_78 Start: 55929, Stop: 58568, Start Num: 233

Candidate Starts for Puissant_78:

(Start: 50 @55227 has 1 MA's), (Start: 72 @55254 has 72 MA's), (84, 55326), (Start: 89 @55350 has 8 MA's), (92, 55383), (127, 55518), (153, 55611), (169, 55677), (188, 55737), (202, 55794), (233, 55929), (284, 56130), (296, 56163), (325, 56220), (346, 56319), (352, 56346), (359, 56376), (368, 56406), (378, 56499), (381, 56538), (387, 56580), (405, 56676), (410, 56694), (430, 56775), (471, 56937), (475, 56955), (496, 57039), (501, 57072), (502, 57078), (510, 57120), (520, 57147), (523, 57153), (528, 57162), (537, 57192), (550, 57234), (553, 57249), (560, 57288), (564, 57300), (585, 57393), (586, 57399), (594, 57447), (603, 57489), (643, 57639), (646, 57651), (671, 57735), (689, 57828), (705, 57876), (709, 57897), (828, 58089), (852, 58167), (870, 58221), (874, 58233), (915, 58377), (917, 58383), (926, 58410), (936, 58449), (949, 58488), (950, 58491), (954, 58506), (969, 58551),

Gene: PumpkinSpice_81 Start: 58443, Stop: 61763, Start Num: 67

Candidate Starts for PumpkinSpice_81:

(Start: 67 @58443 has 30 MA's), (79, 58494), (84, 58515), (Start: 89 @58539 has 8 MA's), (103, 58620), (157, 58818), (214, 58998), (226, 59046), (235, 59103), (245, 59154), (249, 59172), (251, 59181), (262, 59217), (295, 59325), (298, 59334), (358, 59544), (371, 59613), (395, 59778), (411, 59856), (469, 60018), (499, 60141), (502, 60165), (521, 60225), (543, 60288), (548, 60297), (592, 60501), (603, 60555), (606, 60564), (610, 60582), (612, 60588), (664, 60771), (666, 60780), (672, 60804), (675, 60831), (706, 60939), (760, 61128), (790, 61206), (806, 61248), (809, 61266), (822, 61308), (834, 61347), (835, 61353), (845, 61380), (855, 61419), (870, 61467), (873, 61476), (895, 61548), (899, 61569), (907, 61596), (911, 61599), (914, 61614), (923, 61647), (942, 61716),

Gene: Pupper_153 Start: 106237, Stop: 109692, Start Num: 66

Candidate Starts for Pupper_153:

(Start: 66 @106237 has 166 MA's), (83, 106312), (133, 106510), (142, 106546), (161, 106618), (163, 106639), (193, 106759), (198, 106783), (201, 106807), (207, 106828), (211, 106855), (221, 106897), (234, 106966), (237, 106978), (251, 107035), (252, 107038), (259, 107065), (Start: 292 @107167 has 9 MA's), (359, 107356), (360, 107359), (363, 107392), (410, 107710), (413, 107725), (414, 107728), (474, 107935), (475, 107938), (476, 107941), (477, 107950), (481, 107968), (499, 108031), (500, 108040), (517, 108103), (542, 108193), (562, 108304), (590, 108442), (592, 108445), (602, 108496), (603, 108499), (624, 108586), (666, 108757), (733, 108979), (806, 109180), (841, 109294), (844, 109303), (851, 109327), (857, 109354), (858, 109357), (864, 109375), (876, 109405), (881, 109423), (892, 109453), (893, 109456), (910, 109495), (911, 109498), (956, 109648),

Gene: PurduePete_209 Start: 114083, Stop: 117478, Start Num: 66

Candidate Starts for PurduePete_209:

(Start: 23 @113990 has 44 MA's), (Start: 25 @113996 has 6 MA's), (Start: 32 @114008 has 9 MA's), (38, 114017), (Start: 66 @114083 has 166 MA's), (83, 114158), (104, 114272), (112, 114296), (133, 114356), (162, 114467), (170, 114506), (177, 114530), (185, 114572), (211, 114671), (221, 114713), (222, 114719), (227, 114731), (237, 114794), (251, 114854), (252, 114857), (259, 114884), (272, 114926), (Start: 292 @114989 has 9 MA's), (344, 115109), (351, 115145), (356, 115163), (359, 115178), (373, 115295), (379, 115334), (395, 115454), (403, 115496), (413, 115541), (415, 115550), (428, 115601), (441, 115643), (461, 115709), (464, 115718), (465, 115721), (467, 115727), (468, 115730), (469, 115739), (471, 115745), (474, 115760), (499, 115847), (530, 115952), (541, 116006), (556, 116093), (562, 116123), (572, 116153), (579, 116186), (581, 116195), (592, 116267), (596, 116297), (622, 116414), (632, 116459), (643, 116501), (680, 116645), (702, 116705), (738, 116807), (770, 116894), (772, 116897), (779, 116915), (791, 116951), (792, 116954), (813, 117014), (818,

117032), (851, 117128), (858, 117158), (864, 117176), (876, 117206), (911, 117299), (914, 117314), (939, 117395), (940, 117401), (944, 117413),

Gene: QBert_201 Start: 112436, Stop: 115831, Start Num: 66

Candidate Starts for QBert_201:

(Start: 18 @112313 has 5 MA's), (Start: 23 @112343 has 44 MA's), (Start: 25 @112349 has 6 MA's), (Start: 32 @112361 has 9 MA's), (38, 112370), (Start: 66 @112436 has 166 MA's), (83, 112511), (104, 112625), (112, 112649), (133, 112709), (162, 112820), (170, 112859), (177, 112883), (185, 112925), (211, 113024), (221, 113066), (222, 113072), (227, 113084), (237, 113147), (251, 113207), (252, 113210), (259, 113237), (272, 113279), (Start: 292 @113342 has 9 MA's), (344, 113462), (351, 113498), (356, 113516), (359, 113531), (373, 113648), (379, 113687), (395, 113807), (403, 113849), (413, 113894), (415, 113903), (428, 113954), (441, 113996), (461, 114062), (464, 114071), (465, 114074), (467, 114080), (468, 114083), (469, 114092), (471, 114098), (474, 114113), (499, 114200), (530, 114305), (541, 114359), (556, 114446), (562, 114476), (572, 114506), (579, 114539), (581, 114548), (592, 114620), (596, 114650), (622, 114767), (632, 114812), (643, 114854), (680, 114998), (702, 115058), (738, 115160), (770, 115247), (772, 115250), (779, 115268), (791, 115304), (792, 115307), (813, 115367), (818, 115385), (851, 115481), (858, 115511), (864, 115529), (876, 115559), (911, 115652), (914, 115667), (939, 115748), (940, 115754), (944, 115766),

Gene: Quaran19_81 Start: 58434, Stop: 61754, Start Num: 67

Candidate Starts for Quaran19_81:

(Start: 67 @58434 has 30 MA's), (79, 58485), (84, 58506), (Start: 89 @58530 has 8 MA's), (103, 58611), (157, 58809), (214, 58989), (226, 59037), (235, 59094), (245, 59145), (249, 59163), (251, 59172), (262, 59208), (295, 59316), (298, 59325), (358, 59535), (371, 59604), (395, 59769), (411, 59847), (469, 60009), (499, 60132), (502, 60156), (521, 60216), (543, 60279), (548, 60288), (592, 60492), (603, 60546), (606, 60555), (610, 60573), (612, 60579), (664, 60762), (666, 60771), (672, 60795), (675, 60822), (706, 60930), (760, 61119), (790, 61197), (806, 61239), (809, 61257), (822, 61299), (834, 61338), (835, 61344), (845, 61371), (855, 61410), (870, 61458), (873, 61467), (895, 61539), (899, 61560), (907, 61587), (911, 61590), (914, 61605), (923, 61638), (942, 61707),

Gene: Quasimodo_211 Start: 113706, Stop: 117101, Start Num: 66

Candidate Starts for Quasimodo_211:

(Start: 23 @113613 has 44 MA's), (Start: 25 @113619 has 6 MA's), (Start: 32 @113631 has 9 MA's), (38, 113640), (Start: 66 @113706 has 166 MA's), (83, 113781), (104, 113895), (112, 113919), (133, 113979), (162, 114090), (170, 114129), (177, 114153), (185, 114195), (211, 114294), (221, 114336), (222, 114342), (227, 114354), (237, 114417), (251, 114477), (252, 114480), (259, 114507), (272, 114549), (Start: 292 @114612 has 9 MA's), (344, 114732), (351, 114768), (356, 114786), (359, 114801), (373, 114918), (379, 114957), (395, 115077), (403, 115119), (413, 115164), (415, 115173), (428, 115224), (441, 115266), (461, 115332), (464, 115341), (465, 115344), (467, 115350), (468, 115353), (469, 115362), (471, 115368), (474, 115383), (499, 115470), (530, 115575), (541, 115629), (556, 115716), (562, 115746), (572, 115776), (579, 115809), (581, 115818), (592, 115890), (596, 115920), (622, 116037), (632, 116082), (643, 116124), (680, 116268), (702, 116328), (738, 116430), (770, 116517), (772, 116520), (779, 116538), (791, 116574), (792, 116577), (813, 116637), (818, 116655), (851, 116751), (858, 116781), (864, 116799), (876, 116829), (911, 116922), (914, 116937), (939, 117018), (940, 117024), (944, 117036),

Gene: Rabinovish_202 Start: 113888, Stop: 117376, Start Num: 23

Candidate Starts for Rabinovish_202:

(Start: 23 @113888 has 44 MA's), (Start: 25 @113894 has 6 MA's), (Start: 32 @113906 has 9 MA's), (38, 113915), (Start: 66 @113981 has 166 MA's), (83, 114056), (104, 114170), (112, 114194), (133, 114254), (162, 114365), (170, 114404), (177, 114428), (185, 114470), (211, 114569), (221, 114611), (222, 114617), (227, 114629), (237, 114692), (251, 114752), (252, 114755), (259, 114782), (272, 114824), (Start: 292 @114887 has 9 MA's), (344, 115007), (351, 115043), (356, 115061), (359,

115076), (373, 115193), (379, 115232), (395, 115352), (403, 115394), (413, 115439), (415, 115448), (428, 115499), (441, 115541), (461, 115607), (464, 115616), (465, 115619), (467, 115625), (468, 115628), (469, 115637), (471, 115643), (474, 115658), (499, 115745), (530, 115850), (541, 115904), (556, 115991), (562, 116021), (572, 116051), (579, 116084), (581, 116093), (592, 116165), (596, 116195), (622, 116312), (632, 116357), (643, 116399), (680, 116543), (702, 116603), (738, 116705), (770, 116792), (772, 116795), (779, 116813), (791, 116849), (792, 116852), (813, 116912), (818, 116930), (851, 117026), (858, 117056), (864, 117074), (876, 117104), (911, 117197), (914, 117212), (939, 117293), (940, 117299), (944, 117311),

Gene: Rachella_57 Start: 41260, Stop: 43563, Start Num: 287

Candidate Starts for Rachella_57:

(Start: 287 @41260 has 29 MA's), (Start: 290 @41266 has 6 MA's), (324, 41344), (344, 41416), (348, 41437), (356, 41470), (358, 41482), (359, 41485), (361, 41503), (375, 41578), (378, 41602), (381, 41641), (388, 41686), (391, 41698), (405, 41779), (435, 41893), (440, 41905), (471, 41980), (475, 41998), (493, 42076), (496, 42082), (498, 42091), (503, 42124), (508, 42154), (512, 42160), (526, 42181), (530, 42190), (538, 42220), (558, 42295), (560, 42304), (570, 42328), (571, 42334), (575, 42349), (580, 42376), (592, 42451), (608, 42523), (614, 42547), (635, 42631), (663, 42721), (666, 42733), (671, 42751), (687, 42829), (688, 42835), (692, 42844), (702, 42877), (729, 42949), (840, 43129), (850, 43159), (868, 43222), (892, 43294), (929, 43417), (938, 43450), (953, 43495), (966, 43540), (969, 43546),

Gene: Rahel_210 Start: 112815, Stop: 116210, Start Num: 66

Candidate Starts for Rahel_210:

(Start: 23 @112722 has 44 MA's), (Start: 25 @112728 has 6 MA's), (Start: 32 @112740 has 9 MA's), (38, 112749), (Start: 66 @112815 has 166 MA's), (83, 112890), (104, 113004), (112, 113028), (133, 113088), (162, 113199), (170, 113238), (177, 113262), (185, 113304), (211, 113403), (221, 113445), (222, 113451), (227, 113463), (237, 113526), (251, 113586), (252, 113589), (259, 113616), (272, 113658), (Start: 292 @113721 has 9 MA's), (351, 113877), (356, 113895), (359, 113910), (373, 114027), (379, 114066), (395, 114186), (403, 114228), (413, 114273), (415, 114282), (428, 114333), (441, 114375), (461, 114441), (464, 114450), (465, 114453), (467, 114459), (468, 114462), (469, 114471), (471, 114477), (474, 114492), (499, 114579), (530, 114684), (541, 114738), (556, 114825), (562, 114855), (572, 114885), (579, 114918), (581, 114927), (592, 114999), (596, 115029), (622, 115146), (632, 115191), (643, 115233), (680, 115377), (702, 115437), (738, 115539), (770, 115626), (772, 115629), (779, 115647), (791, 115683), (792, 115686), (813, 115746), (818, 115764), (851, 115860), (858, 115890), (864, 115908), (876, 115938), (911, 116031), (914, 116046), (939, 116127), (940, 116133), (944, 116145),

Gene: Rana_55 Start: 41495, Stop: 38013, Start Num: 70

Candidate Starts for Rana_55:

(42, 41543), (44, 41534), (Start: 70 @41495 has 4 MA's), (Start: 81 @41432 has 1 MA's), (83, 41423), (91, 41381), (105, 41306), (108, 41288), (126, 41219), (143, 41150), (156, 41096), (174, 41024), (182, 40988), (198, 40928), (226, 40850), (255, 40703), (270, 40664), (277, 40637), (282, 40619), (Start: 290 @40598 has 6 MA's), (295, 40583), (347, 40463), (350, 40451), (380, 40265), (381, 40259), (388, 40214), (404, 40130), (407, 40112), (422, 40055), (423, 40052), (426, 40040), (469, 39902), (471, 39896), (474, 39881), (476, 39875), (482, 39842), (504, 39764), (514, 39731), (554, 39614), (558, 39590), (580, 39509), (581, 39503), (592, 39434), (602, 39371), (608, 39350), (618, 39305), (630, 39266), (645, 39209), (647, 39200), (675, 39092), (681, 39071), (684, 39050), (697, 39020), (706, 38993), (731, 38927), (733, 38918), (737, 38906), (765, 38819), (776, 38795), (807, 38699), (833, 38603), (857, 38519), (866, 38492), (905, 38354), (908, 38345), (914, 38318), (928, 38270), (929, 38264), (934, 38243), (936, 38237), (968, 38132), (976, 38105), (978, 38093),

Gene: Ranch_80 Start: 51036, Stop: 54344, Start Num: 76

Candidate Starts for Ranch_80:

(Start: 76 @51036 has 4 MA's), (Start: 81 @51063 has 1 MA's), (Start: 89 @51099 has 8 MA's), (94, 51144), (104, 51186), (173, 51447), (204, 51549), (213, 51582), (233, 51678), (304, 51948), (Start: 307 @51957 has 8 MA's), (338, 52065), (346, 52110), (356, 52152), (378, 52284), (379, 52287), (380, 52317), (383, 52338), (395, 52407), (405, 52461), (430, 52560), (435, 52575), (455, 52617), (502, 52791), (508, 52824), (521, 52842), (530, 52860), (543, 52905), (544, 52908), (571, 53004), (580, 53046), (582, 53058), (587, 53094), (629, 53274), (640, 53316), (648, 53352), (666, 53406), (671, 53424), (692, 53520), (695, 53532), (795, 53727), (829, 53811), (862, 53916), (867, 53931), (873, 53946), (879, 53967), (882, 53979), (884, 53985), (885, 53988), (893, 54015), (903, 54060), (935, 54168), (950, 54213), (958, 54237), (969, 54273),

Gene: RazorC_79 Start: 50446, Stop: 53787, Start Num: 69

Candidate Starts for RazorC_79:

(Start: 69 @50446 has 20 MA's), (Start: 89 @50542 has 8 MA's), (94, 50587), (104, 50629), (173, 50890), (213, 51025), (233, 51121), (304, 51391), (Start: 307 @51400 has 8 MA's), (338, 51508), (346, 51553), (356, 51595), (370, 51673), (378, 51727), (379, 51730), (380, 51760), (395, 51850), (405, 51904), (430, 52003), (435, 52018), (455, 52060), (502, 52234), (508, 52267), (521, 52285), (530, 52303), (543, 52348), (544, 52351), (571, 52447), (580, 52489), (582, 52501), (587, 52537), (629, 52717), (640, 52759), (648, 52795), (663, 52837), (666, 52849), (671, 52867), (692, 52963), (695, 52975), (795, 53170), (829, 53254), (862, 53359), (867, 53374), (873, 53389), (879, 53410), (882, 53422), (884, 53428), (885, 53431), (893, 53458), (903, 53503), (935, 53611), (950, 53656), (958, 53680), (969, 53716),

Gene: RedBear_55 Start: 42740, Stop: 39261, Start Num: 66

Candidate Starts for RedBear_55:

(Start: 32 @42806 has 9 MA's), (Start: 66 @42740 has 166 MA's), (Start: 81 @42677 has 1 MA's), (83, 42668), (86, 42656), (91, 42626), (108, 42533), (119, 42500), (126, 42464), (143, 42395), (156, 42341), (174, 42269), (198, 42173), (226, 42095), (255, 41948), (270, 41909), (282, 41864), (Start: 290 @41843 has 6 MA's), (295, 41828), (313, 41807), (347, 41708), (350, 41696), (365, 41633), (380, 41510), (381, 41504), (388, 41459), (404, 41375), (407, 41357), (422, 41300), (423, 41297), (426, 41285), (469, 41147), (474, 41126), (476, 41120), (478, 41105), (493, 41063), (503, 41015), (504, 41009), (514, 40976), (558, 40835), (576, 40778), (580, 40754), (581, 40748), (592, 40679), (601, 40631), (602, 40616), (608, 40595), (618, 40550), (645, 40454), (647, 40445), (675, 40337), (678, 40328), (681, 40316), (684, 40295), (697, 40265), (706, 40238), (733, 40163), (737, 40151), (765, 40064), (776, 40040), (833, 39848), (866, 39737), (905, 39599), (914, 39563), (928, 39515), (929, 39509), (936, 39482), (976, 39350), (978, 39338), (979, 39332), (985, 39275),

Gene: RedRaider_67 Start: 51121, Stop: 47807, Start Num: 72

Candidate Starts for RedRaider_67:

(Start: 72 @51121 has 72 MA's), (77, 51088), (Start: 89 @51025 has 8 MA's), (124, 50872), (127, 50863), (160, 50740), (204, 50581), (206, 50575), (212, 50551), (213, 50548), (226, 50497), (234, 50443), (240, 50413), (311, 50206), (356, 50035), (365, 49993), (376, 49915), (378, 49900), (399, 49762), (410, 49711), (460, 49564), (475, 49507), (484, 49462), (502, 49396), (521, 49345), (530, 49327), (543, 49282), (593, 49039), (602, 48997), (603, 48994), (605, 48988), (610, 48970), (628, 48901), (634, 48874), (640, 48856), (648, 48820), (688, 48676), (692, 48667), (699, 48643), (722, 48592), (759, 48463), (779, 48421), (795, 48373), (799, 48364), (817, 48313), (824, 48292), (831, 48271), (889, 48100), (962, 47851),

Gene: RedWattleHog_79 Start: 71408, Stop: 74602, Start Num: 70

Candidate Starts for RedWattleHog_79:

(57, 71396), (Start: 70 @71408 has 4 MA's), (83, 71480), (94, 71552), (99, 71570), (106, 71603), (134, 71681), (156, 71768), (161, 71783), (173, 71837), (184, 71885), (193, 71924), (213, 71996), (214, 71999), (217, 72014), (226, 72047), (235, 72104), (237, 72113), (251, 72167), (252, 72170), (259, 72197), (277, 72254), (Start: 292 @72299 has 9 MA's), (314, 72332), (326, 72365), (344, 72419), (349,

72443), (356, 72473), (359, 72488), (365, 72515), (373, 72569), (384, 72665), (409, 72794), (410, 72800), (441, 72890), (451, 72926), (457, 72944), (464, 72965), (467, 72974), (558, 73301), (582, 73394), (590, 73454), (603, 73511), (605, 73517), (607, 73526), (617, 73571), (618, 73574), (630, 73622), (663, 73748), (679, 73823), (684, 73844), (696, 73871), (700, 73880), (702, 73886), (703, 73889), (713, 73925), (728, 73955), (750, 74033), (751, 74036), (769, 74072), (770, 74075), (785, 74111), (845, 74213), (852, 74237), (864, 74282), (872, 74300), (887, 74342), (911, 74405), (924, 74453), (931, 74483), (960, 74567),

Gene: Rie18_57 Start: 41055, Stop: 43352, Start Num: 290

Candidate Starts for Rie18_57:

(Start: 290 @41055 has 6 MA's), (324, 41133), (348, 41226), (356, 41259), (358, 41271), (359, 41274), (361, 41292), (375, 41367), (378, 41391), (381, 41430), (391, 41487), (405, 41568), (435, 41682), (440, 41694), (475, 41787), (490, 41853), (496, 41871), (503, 41913), (508, 41943), (512, 41949), (526, 41970), (530, 41979), (538, 42009), (552, 42051), (558, 42084), (571, 42123), (608, 42312), (614, 42336), (663, 42510), (666, 42522), (671, 42540), (679, 42585), (688, 42624), (692, 42633), (721, 42711), (729, 42738), (742, 42780), (840, 42918), (850, 42948), (857, 42981), (868, 43011), (892, 43083), (900, 43119), (928, 43200), (929, 43206), (938, 43239), (953, 43284), (966, 43329), (969, 43335),

Gene: RikSengupta_63 Start: 42657, Stop: 44912, Start Num: 290

Candidate Starts for RikSengupta_63:

(Start: 285 @42648 has 3 MA's), (Start: 290 @42657 has 6 MA's), (348, 42792), (356, 42825), (359, 42840), (376, 42942), (378, 42957), (391, 43053), (405, 43134), (407, 43143), (434, 43242), (435, 43248), (471, 43335), (475, 43353), (481, 43383), (487, 43404), (489, 43416), (493, 43431), (498, 43446), (503, 43479), (508, 43509), (512, 43515), (526, 43536), (530, 43545), (538, 43575), (559, 43656), (564, 43671), (571, 43689), (575, 43704), (590, 43803), (648, 44034), (649, 44037), (666, 44088), (671, 44106), (673, 44118), (681, 44160), (688, 44190), (692, 44199), (724, 44289), (802, 44391), (828, 44442), (842, 44487), (860, 44550), (868, 44574), (879, 44604), (882, 44610), (938, 44799), (953, 44844), (966, 44889), (969, 44895),

Gene: Rikishi_84 Start: 58349, Stop: 61669, Start Num: 67

Candidate Starts for Rikishi_84:

(Start: 67 @58349 has 30 MA's), (79, 58400), (84, 58421), (Start: 89 @58445 has 8 MA's), (103, 58526), (157, 58724), (214, 58904), (226, 58952), (235, 59009), (245, 59060), (249, 59078), (251, 59087), (262, 59123), (295, 59231), (298, 59240), (358, 59450), (371, 59519), (395, 59684), (411, 59762), (469, 59924), (499, 60047), (502, 60071), (521, 60131), (543, 60194), (548, 60203), (592, 60407), (603, 60461), (606, 60470), (610, 60488), (612, 60494), (664, 60677), (666, 60686), (672, 60710), (675, 60737), (706, 60845), (760, 61034), (790, 61112), (806, 61154), (809, 61172), (822, 61214), (834, 61253), (835, 61259), (845, 61286), (855, 61325), (870, 61373), (873, 61382), (895, 61454), (899, 61475), (907, 61502), (911, 61505), (914, 61520), (923, 61553), (942, 61622),

Gene: Riparian_76 Start: 55365, Stop: 57677, Start Num: 292

Candidate Starts for Riparian_76:

(Start: 292 @55365 has 9 MA's), (338, 55461), (345, 55500), (356, 55551), (357, 55554), (359, 55566), (368, 55596), (373, 55644), (378, 55680), (419, 55914), (427, 55947), (455, 56013), (475, 56091), (478, 56109), (515, 56256), (521, 56274), (530, 56292), (552, 56364), (553, 56367), (557, 56391), (560, 56406), (571, 56436), (632, 56709), (644, 56751), (646, 56757), (648, 56769), (663, 56811), (671, 56841), (673, 56853), (685, 56913), (691, 56931), (693, 56937), (706, 56979), (715, 57006), (731, 57042), (827, 57165), (828, 57168), (839, 57204), (872, 57303), (882, 57330), (884, 57336), (893, 57366), (917, 57459), (928, 57495), (929, 57501), (946, 57558), (951, 57573), (954, 57585), (961, 57603),

Gene: Riptide_77 Start: 57198, Stop: 60482, Start Num: 68

Candidate Starts for Riptide_77:

(Start: 68 @57198 has 63 MA's), (78, 57243), (84, 57273), (Start: 89 @57297 has 8 MA's), (157, 57576), (167, 57615), (182, 57678), (214, 57756), (216, 57768), (235, 57861), (249, 57924), (250, 57930), (262, 57969), (298, 58086), (334, 58185), (358, 58296), (371, 58365), (377, 58404), (413, 58617), (471, 58752), (474, 58767), (497, 58857), (498, 58863), (499, 58869), (521, 58953), (543, 59016), (548, 59025), (554, 59052), (564, 59097), (580, 59160), (592, 59232), (603, 59286), (606, 59295), (608, 59304), (610, 59313), (612, 59319), (675, 59562), (698, 59631), (702, 59643), (703, 59646), (822, 60027), (845, 60099), (855, 60138), (870, 60186), (895, 60267), (896, 60276), (911, 60318), (923, 60366), (928, 60381), (938, 60420),

Gene: Rizal_201 Start: 111240, Stop: 114728, Start Num: 23

Candidate Starts for Rizal_201:

(Start: 23 @111240 has 44 MA's), (Start: 25 @111246 has 6 MA's), (Start: 32 @111258 has 9 MA's), (38, 111267), (Start: 66 @111333 has 166 MA's), (83, 111408), (104, 111522), (112, 111546), (133, 111606), (162, 111717), (170, 111756), (177, 111780), (185, 111822), (211, 111921), (221, 111963), (222, 111969), (227, 111981), (237, 112044), (251, 112104), (252, 112107), (259, 112134), (272, 112176), (Start: 292 @112239 has 9 MA's), (344, 112359), (351, 112395), (356, 112413), (359, 112428), (373, 112545), (379, 112584), (395, 112704), (403, 112746), (413, 112791), (415, 112800), (428, 112851), (441, 112893), (461, 112959), (464, 112968), (465, 112971), (467, 112977), (468, 112980), (469, 112989), (471, 112995), (474, 113010), (499, 113097), (530, 113202), (541, 113256), (556, 113343), (562, 113373), (572, 113403), (579, 113436), (581, 113445), (592, 113517), (596, 113547), (622, 113664), (632, 113709), (643, 113751), (680, 113895), (702, 113955), (738, 114057), (770, 114144), (772, 114147), (779, 114165), (791, 114201), (792, 114204), (813, 114264), (818, 114282), (851, 114378), (858, 114408), (864, 114426), (876, 114456), (911, 114549), (914, 114564), (939, 114645), (940, 114651), (944, 114663),

Gene: RoMag_204 Start: 113126, Stop: 116521, Start Num: 66

Candidate Starts for RoMag_204:

(Start: 23 @113033 has 44 MA's), (Start: 25 @113039 has 6 MA's), (Start: 32 @113051 has 9 MA's), (38, 113060), (Start: 66 @113126 has 166 MA's), (83, 113201), (104, 113315), (112, 113339), (133, 113399), (162, 113510), (170, 113549), (177, 113573), (185, 113615), (211, 113714), (221, 113756), (222, 113762), (227, 113774), (237, 113837), (251, 113897), (252, 113900), (259, 113927), (272, 113969), (Start: 292 @114032 has 9 MA's), (351, 114188), (356, 114206), (359, 114221), (373, 114338), (379, 114377), (395, 114497), (403, 114539), (413, 114584), (415, 114593), (428, 114644), (441, 114686), (461, 114752), (464, 114761), (465, 114764), (467, 114770), (468, 114773), (469, 114782), (471, 114788), (474, 114803), (499, 114890), (530, 114995), (541, 115049), (556, 115136), (562, 115166), (572, 115196), (579, 115229), (581, 115238), (592, 115310), (596, 115340), (622, 115457), (632, 115502), (643, 115544), (680, 115688), (702, 115748), (738, 115850), (770, 115937), (772, 115940), (779, 115958), (791, 115994), (792, 115997), (813, 116057), (818, 116075), (851, 116171), (858, 116201), (864, 116219), (876, 116249), (911, 116342), (914, 116357), (939, 116438), (940, 116444), (944, 116456),

Gene: Ronan_205 Start: 111518, Stop: 114913, Start Num: 66

Candidate Starts for Ronan_205:

(Start: 18 @111395 has 5 MA's), (Start: 23 @111425 has 44 MA's), (Start: 25 @111431 has 6 MA's), (Start: 32 @111443 has 9 MA's), (38, 111452), (Start: 66 @111518 has 166 MA's), (83, 111593), (104, 111707), (112, 111731), (133, 111791), (162, 111902), (170, 111941), (177, 111965), (185, 112007), (211, 112106), (221, 112148), (222, 112154), (227, 112166), (237, 112229), (251, 112289), (252, 112292), (259, 112319), (272, 112361), (Start: 292 @112424 has 9 MA's), (344, 112544), (351, 112580), (356, 112598), (359, 112613), (373, 112730), (379, 112769), (395, 112889), (403, 112931), (413, 112976), (415, 112985), (428, 113036), (441, 113078), (461, 113144), (464, 113153), (465, 113156), (467, 113162), (468, 113165), (469, 113174), (471, 113180), (474, 113195), (499, 113282), (530, 113387), (541, 113441), (556, 113528), (562, 113558), (572, 113588), (579, 113621), (581,

113630), (592, 113702), (596, 113732), (622, 113849), (632, 113894), (643, 113936), (680, 114080), (702, 114140), (738, 114242), (770, 114329), (772, 114332), (779, 114350), (791, 114386), (792, 114389), (813, 114449), (818, 114467), (851, 114563), (858, 114593), (864, 114611), (876, 114641), (911, 114734), (914, 114749), (939, 114830), (940, 114836), (944, 114848),

Gene: Rooney_51 Start: 39051, Stop: 35854, Start Num: 72

Candidate Starts for Rooney_51:

(58, 39072), (Start: 72 @39051 has 72 MA's), (78, 39009), (Start: 89 @38955 has 8 MA's), (97, 38901), (114, 38832), (117, 38823), (120, 38814), (128, 38784), (137, 38751), (146, 38715), (154, 38673), (157, 38661), (170, 38607), (197, 38538), (202, 38499), (214, 38457), (218, 38436), (233, 38364), (241, 38322), (254, 38259), (255, 38256), (283, 38166), (Start: 287 @38151 has 29 MA's), (291, 38142), (310, 38100), (316, 38085), (321, 38070), (356, 37944), (371, 37863), (373, 37851), (376, 37827), (378, 37812), (379, 37809), (391, 37716), (404, 37644), (407, 37626), (417, 37584), (434, 37527), (442, 37500), (474, 37419), (476, 37413), (481, 37386), (496, 37335), (503, 37293), (508, 37263), (512, 37257), (530, 37227), (535, 37212), (538, 37197), (552, 37155), (553, 37152), (559, 37116), (564, 37101), (588, 36987), (661, 36708), (663, 36696), (666, 36684), (671, 36666), (688, 36573), (724, 36468), (817, 36357), (825, 36333), (855, 36231), (859, 36216), (892, 36123), (916, 36045), (919, 36033), (927, 36012), (939, 35964), (951, 35928), (962, 35892), (966, 35877),

Gene: Roots515_211 Start: 114541, Stop: 118029, Start Num: 23

Candidate Starts for Roots515_211:

(Start: 23 @114541 has 44 MA's), (Start: 25 @114547 has 6 MA's), (Start: 32 @114559 has 9 MA's), (38, 114568), (Start: 66 @114634 has 166 MA's), (83, 114709), (104, 114823), (112, 114847), (133, 114907), (162, 115018), (170, 115057), (177, 115081), (185, 115123), (211, 115222), (221, 115264), (222, 115270), (227, 115282), (237, 115345), (251, 115405), (252, 115408), (259, 115435), (272, 115477), (Start: 292 @115540 has 9 MA's), (344, 115660), (351, 115696), (356, 115714), (359, 115729), (373, 115846), (379, 115885), (395, 116005), (403, 116047), (413, 116092), (415, 116101), (428, 116152), (441, 116194), (461, 116260), (464, 116269), (465, 116272), (467, 116278), (468, 116281), (469, 116290), (471, 116296), (474, 116311), (499, 116398), (530, 116503), (541, 116557), (556, 116644), (562, 116674), (572, 116704), (579, 116737), (581, 116746), (592, 116818), (596, 116848), (622, 116965), (632, 117010), (643, 117052), (680, 117196), (702, 117256), (738, 117358), (770, 117445), (772, 117448), (779, 117466), (791, 117502), (792, 117505), (813, 117565), (818, 117583), (851, 117679), (858, 117709), (864, 117727), (876, 117757), (911, 117850), (914, 117865), (939, 117946), (940, 117952), (944, 117964),

Gene: Rope_74 Start: 55521, Stop: 57833, Start Num: 292

Candidate Starts for Rope_74:

(Start: 292 @55521 has 9 MA's), (338, 55617), (345, 55656), (356, 55707), (357, 55710), (359, 55722), (368, 55752), (373, 55800), (378, 55836), (419, 56070), (427, 56103), (455, 56169), (475, 56247), (478, 56265), (521, 56430), (530, 56448), (552, 56520), (553, 56523), (557, 56547), (560, 56562), (571, 56592), (577, 56616), (632, 56865), (644, 56907), (646, 56913), (648, 56925), (663, 56967), (671, 56997), (673, 57009), (693, 57093), (715, 57162), (731, 57198), (827, 57321), (828, 57324), (839, 57360), (872, 57459), (882, 57486), (884, 57492), (893, 57522), (928, 57651), (929, 57657), (946, 57714), (951, 57729), (954, 57741), (961, 57759), (966, 57780),

Gene: Rumi_79 Start: 49989, Stop: 53330, Start Num: 69

Candidate Starts for Rumi_79:

(Start: 69 @49989 has 20 MA's), (Start: 81 @50049 has 1 MA's), (Start: 89 @50085 has 8 MA's), (94, 50130), (104, 50172), (173, 50433), (213, 50568), (233, 50664), (304, 50934), (Start: 307 @50943 has 8 MA's), (338, 51051), (346, 51096), (356, 51138), (370, 51216), (378, 51270), (379, 51273), (380, 51303), (395, 51393), (405, 51447), (430, 51546), (435, 51561), (455, 51603), (502, 51777), (508, 51810), (521, 51828), (530, 51846), (543, 51891), (544, 51894), (571, 51990), (580, 52032), (582, 52044), (587, 52080), (629, 52260), (640, 52302), (648, 52338), (663, 52380), (666, 52392), (671,

52410), (692, 52506), (695, 52518), (795, 52713), (829, 52797), (862, 52902), (867, 52917), (873, 52932), (879, 52953), (882, 52965), (884, 52971), (885, 52974), (893, 53001), (903, 53046), (935, 53154), (950, 53199), (958, 53223), (969, 53259),

Gene: Rusticus_55 Start: 40726, Stop: 37247, Start Num: 66

Candidate Starts for Rusticus_55:

(Start: 32 @40795 has 9 MA's), (Start: 66 @40726 has 166 MA's), (83, 40654), (Start: 89 @40627 has 8 MA's), (91, 40612), (126, 40450), (132, 40423), (134, 40417), (156, 40327), (161, 40312), (173, 40258), (174, 40255), (198, 40159), (226, 40081), (255, 39934), (270, 39895), (282, 39850), (Start: 290 @39829 has 6 MA's), (295, 39814), (321, 39772), (326, 39760), (347, 39694), (350, 39682), (365, 39619), (381, 39490), (382, 39481), (388, 39445), (404, 39361), (407, 39343), (422, 39286), (423, 39283), (426, 39271), (469, 39133), (471, 39127), (474, 39112), (476, 39106), (485, 39067), (504, 38995), (514, 38962), (554, 38845), (558, 38821), (576, 38764), (580, 38740), (581, 38734), (592, 38665), (602, 38602), (618, 38536), (623, 38515), (630, 38497), (645, 38440), (647, 38431), (675, 38323), (678, 38314), (681, 38302), (684, 38281), (697, 38251), (706, 38224), (731, 38158), (733, 38149), (737, 38137), (765, 38050), (776, 38026), (792, 37978), (833, 37834), (855, 37759), (905, 37585), (914, 37549), (928, 37501), (936, 37468),

Gene: SCentae_152 Start: 106391, Stop: 109846, Start Num: 66

Candidate Starts for SCentae_152:

(Start: 66 @106391 has 166 MA's), (83, 106466), (133, 106664), (142, 106700), (161, 106772), (177, 106838), (193, 106913), (198, 106937), (201, 106961), (207, 106982), (211, 107009), (221, 107051), (234, 107120), (237, 107132), (251, 107189), (252, 107192), (259, 107219), (Start: 292 @107321 has 9 MA's), (359, 107510), (360, 107513), (363, 107546), (410, 107864), (413, 107879), (414, 107882), (474, 108089), (475, 108092), (476, 108095), (477, 108104), (481, 108122), (499, 108185), (500, 108194), (517, 108257), (542, 108347), (562, 108458), (590, 108596), (592, 108599), (602, 108650), (603, 108653), (624, 108740), (666, 108911), (733, 109133), (806, 109334), (841, 109448), (844, 109457), (851, 109481), (857, 109508), (858, 109511), (864, 109529), (876, 109559), (881, 109577), (892, 109607), (893, 109610), (910, 109649), (911, 109652), (956, 109802),

Gene: SVoro_206 Start: 113428, Stop: 116823, Start Num: 66

Candidate Starts for SVoro_206:

(Start: 23 @113335 has 44 MA's), (Start: 25 @113341 has 6 MA's), (Start: 32 @113353 has 9 MA's), (38, 113362), (Start: 66 @113428 has 166 MA's), (83, 113503), (104, 113617), (112, 113641), (133, 113701), (162, 113812), (170, 113851), (177, 113875), (185, 113917), (211, 114016), (221, 114058), (222, 114064), (227, 114076), (237, 114139), (251, 114199), (252, 114202), (259, 114229), (272, 114271), (Start: 292 @114334 has 9 MA's), (351, 114490), (356, 114508), (359, 114523), (373, 114640), (379, 114679), (395, 114799), (403, 114841), (413, 114886), (415, 114895), (428, 114946), (441, 114988), (461, 115054), (464, 115063), (465, 115066), (467, 115072), (468, 115075), (469, 115084), (471, 115090), (474, 115105), (499, 115192), (530, 115297), (541, 115351), (556, 115438), (562, 115468), (572, 115498), (579, 115531), (581, 115540), (592, 115612), (596, 115642), (622, 115759), (632, 115804), (643, 115846), (680, 115990), (702, 116050), (738, 116152), (770, 116239), (772, 116242), (779, 116260), (791, 116296), (792, 116299), (813, 116359), (818, 116377), (851, 116473), (858, 116503), (864, 116521), (876, 116551), (911, 116644), (914, 116659), (939, 116740), (940, 116746), (944, 116758),

Gene: Sadboi_79 Start: 52345, Stop: 55686, Start Num: 69

Candidate Starts for Sadboi_79:

(41, 52297), (Start: 69 @52345 has 20 MA's), (Start: 81 @52405 has 1 MA's), (Start: 89 @52441 has 8 MA's), (94, 52486), (104, 52528), (173, 52789), (204, 52891), (213, 52924), (233, 53020), (304, 53290), (Start: 307 @53299 has 8 MA's), (338, 53407), (346, 53452), (356, 53494), (378, 53626), (379, 53629), (380, 53659), (383, 53680), (395, 53749), (405, 53803), (430, 53902), (435, 53917), (455, 53959), (502, 54133), (508, 54166), (521, 54184), (530, 54202), (543, 54247), (544, 54250), (571,

54346), (580, 54388), (582, 54400), (587, 54436), (629, 54616), (640, 54658), (648, 54694), (666, 54748), (671, 54766), (692, 54862), (695, 54874), (795, 55069), (829, 55153), (853, 55234), (862, 55258), (867, 55273), (879, 55309), (882, 55321), (884, 55327), (885, 55330), (893, 55357), (903, 55402), (935, 55510), (950, 55555), (958, 55579), (969, 55615),

Gene: Salacia_209 Start: 113125, Stop: 116613, Start Num: 23

Candidate Starts for Salacia_209:

(Start: 23 @113125 has 44 MA's), (Start: 25 @113131 has 6 MA's), (Start: 32 @113143 has 9 MA's), (38, 113152), (Start: 66 @113218 has 166 MA's), (83, 113293), (104, 113407), (112, 113431), (133, 113491), (162, 113602), (170, 113641), (177, 113665), (185, 113707), (211, 113806), (221, 113848), (222, 113854), (227, 113866), (237, 113929), (251, 113989), (252, 113992), (259, 114019), (272, 114061), (Start: 292 @114124 has 9 MA's), (351, 114280), (356, 114298), (359, 114313), (373, 114430), (379, 114469), (395, 114589), (403, 114631), (413, 114676), (415, 114685), (428, 114736), (441, 114778), (461, 114844), (464, 114853), (465, 114856), (467, 114862), (468, 114865), (469, 114874), (471, 114880), (474, 114895), (499, 114982), (530, 115087), (541, 115141), (556, 115228), (562, 115258), (572, 115288), (579, 115321), (581, 115330), (592, 115402), (596, 115432), (622, 115549), (632, 115594), (643, 115636), (680, 115780), (702, 115840), (738, 115942), (770, 116029), (772, 116032), (779, 116050), (791, 116086), (792, 116089), (813, 116149), (818, 116167), (851, 116263), (858, 116293), (864, 116311), (876, 116341), (911, 116434), (914, 116449), (939, 116530), (940, 116536), (944, 116548),

Gene: SaltySpittoon_81 Start: 58443, Stop: 61763, Start Num: 67

Candidate Starts for SaltySpittoon_81:

(Start: 67 @58443 has 30 MA's), (79, 58494), (84, 58515), (Start: 89 @58539 has 8 MA's), (103, 58620), (157, 58818), (214, 58998), (226, 59046), (227, 59049), (235, 59103), (245, 59154), (249, 59172), (251, 59181), (262, 59217), (295, 59325), (298, 59334), (358, 59544), (371, 59613), (395, 59778), (411, 59856), (469, 60018), (499, 60141), (502, 60165), (521, 60225), (543, 60288), (548, 60297), (592, 60501), (603, 60555), (606, 60564), (610, 60582), (612, 60588), (664, 60771), (666, 60780), (672, 60804), (675, 60831), (706, 60939), (760, 61128), (790, 61206), (806, 61248), (809, 61266), (822, 61308), (834, 61347), (835, 61353), (845, 61380), (855, 61419), (870, 61467), (873, 61476), (895, 61548), (899, 61569), (907, 61596), (911, 61599), (914, 61614), (923, 61647), (942, 61716),

Gene: Samisti12_80 Start: 60339, Stop: 63623, Start Num: 68

Candidate Starts for Samisti12_80:

(Start: 68 @60339 has 63 MA's), (78, 60384), (84, 60414), (88, 60432), (Start: 89 @60438 has 8 MA's), (157, 60717), (182, 60819), (214, 60897), (216, 60909), (235, 61002), (249, 61065), (250, 61071), (262, 61110), (298, 61227), (330, 61311), (358, 61437), (367, 61467), (371, 61506), (471, 61893), (497, 61998), (498, 62004), (499, 62010), (503, 62037), (521, 62094), (534, 62124), (548, 62166), (554, 62193), (564, 62238), (580, 62301), (592, 62373), (603, 62427), (606, 62436), (608, 62445), (610, 62454), (612, 62460), (675, 62703), (698, 62772), (702, 62784), (735, 62889), (795, 63084), (807, 63117), (822, 63168), (834, 63207), (835, 63213), (855, 63279), (870, 63327), (881, 63363), (895, 63408), (896, 63417), (911, 63459), (922, 63504), (923, 63507), (928, 63522),

Gene: Sampudon_80 Start: 52937, Stop: 56278, Start Num: 69

Candidate Starts for Sampudon_80:

(41, 52889), (Start: 69 @52937 has 20 MA's), (Start: 81 @52997 has 1 MA's), (Start: 89 @53033 has 8 MA's), (94, 53078), (104, 53120), (173, 53381), (204, 53483), (213, 53516), (233, 53612), (304, 53882), (Start: 307 @53891 has 8 MA's), (338, 53999), (346, 54044), (356, 54086), (378, 54218), (379, 54221), (380, 54251), (383, 54272), (395, 54341), (405, 54395), (430, 54494), (435, 54509), (502, 54725), (508, 54758), (521, 54776), (530, 54794), (543, 54839), (544, 54842), (571, 54938), (580, 54980), (582, 54992), (587, 55028), (608, 55127), (629, 55208), (640, 55250), (648, 55286), (666, 55340), (671, 55358), (692, 55454), (695, 55466), (795, 55661), (829, 55745), (853, 55826), (862,

55850), (867, 55865), (879, 55901), (882, 55913), (884, 55919), (885, 55922), (893, 55949), (903, 55994), (935, 56102), (950, 56147), (958, 56171), (969, 56207),

Gene: SarahRose_54 Start: 42467, Stop: 38982, Start Num: 66

Candidate Starts for SarahRose_54:

(Start: 32 @42536 has 9 MA's), (Start: 66 @42467 has 166 MA's), (Start: 81 @42404 has 1 MA's), (83, 42395), (91, 42353), (108, 42260), (126, 42191), (143, 42122), (156, 42068), (174, 41996), (182, 41960), (198, 41900), (255, 41675), (270, 41636), (277, 41609), (282, 41591), (Start: 290 @41570 has 6 MA's), (295, 41555), (321, 41513), (347, 41435), (350, 41423), (380, 41237), (381, 41231), (388, 41186), (404, 41102), (407, 41084), (422, 41027), (423, 41024), (426, 41012), (469, 40874), (471, 40868), (474, 40853), (476, 40847), (482, 40814), (504, 40736), (514, 40703), (558, 40562), (580, 40481), (581, 40475), (592, 40406), (599, 40364), (602, 40343), (608, 40322), (618, 40277), (645, 40181), (647, 40172), (649, 40166), (675, 40064), (678, 40055), (681, 40043), (684, 40022), (697, 39992), (706, 39965), (731, 39899), (733, 39890), (737, 39878), (765, 39791), (816, 39623), (833, 39575), (866, 39464), (905, 39326), (908, 39317), (914, 39290), (928, 39242), (936, 39209), (944, 39182), (976, 39077), (978, 39065),

Gene: Sauce_205 Start: 112032, Stop: 115427, Start Num: 66

Candidate Starts for Sauce_205:

(Start: 18 @111909 has 5 MA's), (Start: 23 @111939 has 44 MA's), (Start: 25 @111945 has 6 MA's), (Start: 32 @111957 has 9 MA's), (38, 111966), (Start: 66 @112032 has 166 MA's), (83, 112107), (104, 112221), (112, 112245), (133, 112305), (162, 112416), (170, 112455), (177, 112479), (185, 112521), (211, 112620), (221, 112662), (222, 112668), (227, 112680), (237, 112743), (251, 112803), (252, 112806), (259, 112833), (272, 112875), (Start: 292 @112938 has 9 MA's), (344, 113058), (351, 113094), (356, 113112), (359, 113127), (373, 113244), (379, 113283), (395, 113403), (403, 113445), (413, 113490), (415, 113499), (428, 113550), (441, 113592), (461, 113658), (464, 113667), (465, 113670), (467, 113676), (468, 113679), (469, 113688), (471, 113694), (474, 113709), (499, 113796), (530, 113901), (541, 113955), (556, 114042), (562, 114072), (572, 114102), (579, 114135), (581, 114144), (592, 114216), (596, 114246), (622, 114363), (632, 114408), (643, 114450), (680, 114594), (702, 114654), (738, 114756), (770, 114843), (772, 114846), (779, 114864), (791, 114900), (792, 114903), (813, 114963), (818, 114981), (851, 115077), (858, 115107), (864, 115125), (876, 115155), (911, 115248), (914, 115263), (939, 115344), (940, 115350), (944, 115362),

Gene: ScarletRaider_99 Start: 73508, Stop: 76315, Start Num: 54

Candidate Starts for ScarletRaider_99:

(Start: 54 @73508 has 8 MA's), (83, 73598), (87, 73613), (92, 73658), (109, 73736), (131, 73808), (158, 73916), (163, 73946), (164, 73949), (165, 73952), (180, 74012), (185, 74033), (193, 74063), (222, 74180), (235, 74246), (237, 74255), (238, 74258), (273, 74387), (Start: 285 @74432 has 3 MA's), (Start: 290 @74441 has 6 MA's), (347, 74552), (351, 74570), (355, 74585), (357, 74591), (359, 74603), (367, 74630), (368, 74633), (375, 74693), (376, 74702), (379, 74717), (387, 74798), (394, 74831), (438, 75029), (443, 75053), (448, 75071), (472, 75161), (473, 75164), (483, 75209), (486, 75212), (499, 75251), (500, 75260), (504, 75284), (505, 75290), (512, 75314), (514, 75317), (521, 75335), (529, 75347), (564, 75476), (566, 75482), (574, 75506), (575, 75509), (578, 75524), (580, 75536), (600, 75653), (602, 75671), (603, 75674), (606, 75683), (633, 75788), (635, 75797), (641, 75824), (675, 75956), (679, 75968), (681, 75974), (703, 76040), (708, 76058), (712, 76070), (714, 76079), (728, 76115), (750, 76193), (762, 76220), (787, 76295), (791, 76304),

Gene: Scheme_81 Start: 59744, Stop: 63028, Start Num: 68

Candidate Starts for Scheme_81:

(Start: 68 @59744 has 63 MA's), (78, 59789), (84, 59819), (88, 59837), (Start: 89 @59843 has 8 MA's), (157, 60122), (182, 60224), (214, 60302), (235, 60407), (249, 60470), (250, 60476), (262, 60515), (298, 60632), (330, 60716), (358, 60842), (367, 60872), (371, 60911), (471, 61298), (497, 61403), (498, 61409), (499, 61415), (502, 61439), (521, 61499), (534, 61529), (535, 61532), (548, 61571),

(554, 61598), (560, 61631), (564, 61643), (580, 61706), (592, 61778), (603, 61832), (606, 61841), (608, 61850), (610, 61859), (612, 61865), (675, 62108), (698, 62177), (702, 62189), (735, 62294), (795, 62489), (807, 62522), (822, 62573), (835, 62618), (855, 62684), (870, 62732), (881, 62768), (895, 62813), (896, 62822), (911, 62864), (922, 62909), (923, 62912), (928, 62927),

Gene: Schomber_96 Start: 69887, Stop: 72700, Start Num: 54

Candidate Starts for Schomber_96:

(Start: 46 @69872 has 1 MA's), (Start: 51 @69884 has 2 MA's), (Start: 54 @69887 has 8 MA's), (83, 69980), (92, 70040), (131, 70190), (132, 70193), (134, 70199), (158, 70298), (163, 70328), (164, 70331), (180, 70394), (185, 70415), (186, 70418), (193, 70445), (222, 70562), (226, 70571), (235, 70628), (237, 70637), (253, 70703), (273, 70769), (347, 70934), (351, 70952), (355, 70967), (357, 70973), (359, 70985), (367, 71012), (368, 71015), (375, 71075), (376, 71084), (377, 71087), (379, 71099), (382, 71144), (394, 71213), (397, 71237), (432, 71393), (438, 71411), (443, 71435), (448, 71453), (475, 71549), (483, 71591), (487, 71597), (499, 71633), (500, 71642), (503, 71660), (504, 71666), (508, 71690), (512, 71696), (514, 71699), (521, 71717), (522, 71720), (554, 71813), (564, 71858), (566, 71864), (574, 71888), (575, 71891), (577, 71900), (578, 71906), (580, 71918), (600, 72035), (602, 72053), (603, 72056), (606, 72065), (635, 72179), (639, 72194), (675, 72341), (679, 72353), (681, 72359), (692, 72392), (703, 72425), (708, 72443), (712, 72455), (714, 72464), (750, 72578), (754, 72590), (762, 72605), (787, 72680), (791, 72689),

Gene: ScoobyDoobyDoo_190 Start: 106890, Stop: 110309, Start Num: 59

Candidate Starts for ScoobyDoobyDoo_190:

(Start: 59 @106890 has 3 MA's), (96, 107052), (113, 107115), (122, 107139), (161, 107280), (185, 107388), (214, 107508), (221, 107541), (227, 107559), (237, 107622), (251, 107679), (252, 107682), (259, 107709), (277, 107766), (Start: 292 @107811 has 9 MA's), (359, 108000), (391, 108249), (415, 108372), (451, 108495), (461, 108531), (464, 108540), (471, 108567), (499, 108672), (504, 108705), (517, 108744), (539, 108810), (544, 108840), (572, 108975), (579, 109008), (581, 109017), (592, 109089), (596, 109113), (601, 109125), (603, 109143), (607, 109158), (622, 109221), (666, 109386), (690, 109497), (702, 109533), (711, 109563), (770, 109722), (792, 109782), (807, 109815), (844, 109935), (858, 109989), (864, 110007), (876, 110037), (877, 110043), (889, 110073), (911, 110130), (912, 110139), (914, 110145), (932, 110211), (937, 110220), (940, 110232), (945, 110247), (960, 110292), (964, 110301),

Gene: ScottMcG_202 Start: 111839, Stop: 115234, Start Num: 66

Candidate Starts for ScottMcG_202:

(Start: 23 @111746 has 44 MA's), (Start: 25 @111752 has 6 MA's), (Start: 32 @111764 has 9 MA's), (38, 111773), (Start: 66 @111839 has 166 MA's), (83, 111914), (104, 112028), (112, 112052), (133, 112112), (162, 112223), (170, 112262), (177, 112286), (185, 112328), (211, 112427), (221, 112469), (222, 112475), (227, 112487), (237, 112550), (251, 112610), (252, 112613), (259, 112640), (272, 112682), (Start: 292 @112745 has 9 MA's), (344, 112865), (351, 112901), (356, 112919), (359, 112934), (373, 113051), (379, 113090), (395, 113210), (403, 113252), (413, 113297), (415, 113306), (428, 113357), (441, 113399), (461, 113465), (464, 113474), (465, 113477), (467, 113483), (468, 113486), (469, 113495), (471, 113501), (474, 113516), (499, 113603), (530, 113708), (541, 113762), (556, 113849), (562, 113879), (572, 113909), (579, 113942), (581, 113951), (592, 114023), (596, 114053), (622, 114170), (632, 114215), (643, 114257), (680, 114401), (702, 114461), (738, 114563), (770, 114650), (772, 114653), (779, 114671), (791, 114707), (792, 114710), (813, 114770), (818, 114788), (851, 114884), (858, 114914), (864, 114932), (876, 114962), (911, 115055), (914, 115070), (939, 115151), (940, 115157), (944, 115169),

Gene: Scuba_68 Start: 48073, Stop: 44684, Start Num: 37

Candidate Starts for Scuba_68:

(20, 48124), (Start: 37 @48073 has 2 MA's), (41, 48055), (49, 48028), (Start: 72 @48004 has 72 MA's), (86, 47923), (Start: 89 @47908 has 8 MA's), (96, 47857), (124, 47755), (127, 47746), (155, 47641),

(160, 47623), (186, 47530), (204, 47464), (206, 47458), (209, 47446), (226, 47380), (234, 47326), (284, 47134), (294, 47107), (311, 47089), (344, 46972), (376, 46798), (378, 46783), (399, 46645), (460, 46447), (469, 46414), (475, 46390), (491, 46330), (502, 46279), (503, 46276), (504, 46270), (508, 46246), (521, 46228), (530, 46210), (543, 46165), (593, 45925), (603, 45880), (605, 45874), (610, 45856), (634, 45760), (640, 45742), (646, 45718), (648, 45706), (682, 45574), (690, 45553), (692, 45547), (701, 45517), (706, 45502), (759, 45340), (778, 45304), (795, 45253), (824, 45172), (831, 45151), (889, 44977), (951, 44764), (971, 44698),

Gene: Sebata_210 Start: 114454, Stop: 117936, Start Num: 25

Candidate Starts for Sebata_210:

(Start: 23 @114448 has 44 MA's), (Start: 25 @114454 has 6 MA's), (Start: 32 @114466 has 9 MA's), (38, 114475), (Start: 66 @114541 has 166 MA's), (83, 114616), (104, 114730), (112, 114754), (133, 114814), (162, 114925), (170, 114964), (177, 114988), (185, 115030), (211, 115129), (221, 115171), (222, 115177), (227, 115189), (237, 115252), (251, 115312), (252, 115315), (259, 115342), (272, 115384), (Start: 292 @115447 has 9 MA's), (351, 115603), (356, 115621), (359, 115636), (373, 115753), (379, 115792), (395, 115912), (403, 115954), (413, 115999), (415, 116008), (428, 116059), (441, 116101), (461, 116167), (464, 116176), (465, 116179), (467, 116185), (468, 116188), (469, 116197), (471, 116203), (474, 116218), (499, 116305), (530, 116410), (541, 116464), (556, 116551), (562, 116581), (572, 116611), (579, 116644), (581, 116653), (592, 116725), (596, 116755), (622, 116872), (632, 116917), (643, 116959), (680, 117103), (702, 117163), (738, 117265), (770, 117352), (772, 117355), (779, 117373), (791, 117409), (792, 117412), (813, 117472), (818, 117490), (851, 117586), (858, 117616), (864, 117634), (876, 117664), (911, 117757), (914, 117772), (939, 117853), (940, 117859), (944, 117871),

Gene: Send513_74 Start: 55899, Stop: 58211, Start Num: 292

Candidate Starts for Send513_74:

(Start: 292 @55899 has 9 MA's), (338, 55995), (345, 56034), (356, 56085), (357, 56088), (358, 56097), (359, 56100), (368, 56130), (373, 56178), (378, 56214), (419, 56448), (427, 56481), (455, 56547), (475, 56625), (478, 56643), (521, 56808), (530, 56826), (553, 56901), (557, 56925), (560, 56940), (571, 56970), (632, 57243), (644, 57285), (646, 57291), (648, 57303), (663, 57345), (671, 57375), (673, 57387), (685, 57447), (691, 57465), (693, 57471), (715, 57540), (731, 57576), (827, 57699), (828, 57702), (839, 57738), (872, 57837), (882, 57864), (884, 57870), (893, 57900), (928, 58029), (929, 58035), (946, 58092), (951, 58107), (954, 58119), (961, 58137),

Gene: SeresaTree_61 Start: 49159, Stop: 52449, Start Num: 68

Candidate Starts for SeresaTree_61:

(Start: 68 @49159 has 63 MA's), (74, 49174), (75, 49180), (84, 49231), (Start: 89 @49255 has 8 MA's), (157, 49534), (172, 49594), (210, 49708), (214, 49714), (235, 49819), (249, 49882), (250, 49888), (262, 49927), (398, 50506), (460, 50671), (471, 50710), (497, 50815), (498, 50821), (499, 50827), (502, 50851), (514, 50893), (535, 50944), (548, 50983), (564, 51055), (580, 51118), (592, 51190), (603, 51244), (606, 51253), (608, 51262), (610, 51271), (612, 51277), (663, 51457), (666, 51469), (672, 51493), (678, 51529), (679, 51532), (698, 51589), (700, 51595), (704, 51607), (737, 51712), (760, 51805), (799, 51910), (804, 51922), (820, 51979), (822, 51985), (835, 52030), (855, 52096), (857, 52105), (874, 52156), (885, 52189), (911, 52276), (925, 52327), (928, 52339), (953, 52426),

Gene: Settecandela_119 Start: 86091, Stop: 89597, Start Num: 40

Candidate Starts for Settecandela_119:

(Start: 40 @86091 has 2 MA's), (Start: 66 @86145 has 166 MA's), (83, 86217), (106, 86340), (121, 86376), (170, 86565), (171, 86568), (198, 86688), (207, 86733), (211, 86760), (221, 86802), (222, 86808), (230, 86841), (234, 86871), (252, 86937), (259, 86964), (269, 86991), (288, 87057), (Start: 292 @87066 has 9 MA's), (314, 87099), (334, 87144), (344, 87186), (357, 87243), (359, 87255), (363, 87291), (366, 87318), (371, 87360), (373, 87372), (375, 87387), (388, 87492), (403, 87573), (409, 87597), (415, 87627), (441, 87732), (464, 87807), (474, 87849), (499, 87942), (501, 87960), (503,

87969), (540, 88080), (562, 88170), (576, 88212), (588, 88290), (592, 88311), (602, 88362), (636, 88506), (663, 88611), (679, 88686), (692, 88719), (731, 88827), (802, 89046), (804, 89052), (854, 89241), (858, 89256), (887, 89334), (911, 89409), (924, 89457), (939, 89505), (940, 89511), (957, 89559),

Gene: ShakeNBake_51 Start: 38880, Stop: 35683, Start Num: 72

Candidate Starts for ShakeNBake_51:

(Start: 37 @38961 has 2 MA's), (58, 38901), (Start: 72 @38880 has 72 MA's), (73, 38871), (78, 38838), (Start: 89 @38784 has 8 MA's), (94, 38739), (97, 38730), (102, 38706), (114, 38661), (117, 38652), (120, 38643), (128, 38613), (137, 38580), (154, 38502), (157, 38490), (170, 38436), (171, 38433), (200, 38349), (233, 38193), (241, 38151), (254, 38088), (255, 38085), (Start: 287 @37980 has 29 MA's), (291, 37971), (310, 37929), (316, 37914), (321, 37899), (356, 37773), (371, 37692), (376, 37656), (378, 37641), (379, 37638), (391, 37545), (407, 37455), (442, 37329), (474, 37248), (481, 37215), (496, 37164), (508, 37092), (512, 37086), (530, 37056), (538, 37026), (559, 36945), (564, 36930), (588, 36816), (617, 36681), (661, 36537), (663, 36525), (666, 36513), (671, 36495), (688, 36402), (724, 36297), (817, 36186), (825, 36162), (859, 36045), (916, 35874), (919, 35862), (927, 35841), (949, 35763), (951, 35757), (962, 35721), (966, 35706),

Gene: Sham_57 Start: 49701, Stop: 52991, Start Num: 68

Candidate Starts for Sham_57:

(Start: 68 @49701 has 63 MA's), (74, 49716), (75, 49722), (79, 49752), (84, 49773), (88, 49791), (Start: 89 @49797 has 8 MA's), (145, 50025), (157, 50076), (163, 50106), (172, 50136), (173, 50139), (210, 50250), (214, 50256), (235, 50361), (249, 50424), (250, 50430), (262, 50469), (358, 50796), (367, 50826), (371, 50865), (398, 51048), (460, 51213), (471, 51252), (475, 51270), (498, 51363), (499, 51369), (504, 51402), (514, 51435), (519, 51447), (534, 51483), (535, 51486), (548, 51525), (564, 51597), (580, 51660), (588, 51711), (592, 51732), (603, 51786), (606, 51795), (608, 51804), (610, 51813), (612, 51819), (666, 52011), (678, 52071), (679, 52074), (698, 52131), (700, 52137), (704, 52149), (714, 52185), (737, 52254), (760, 52347), (799, 52452), (820, 52521), (822, 52527), (826, 52539), (855, 52638), (857, 52647), (864, 52668), (874, 52698), (885, 52731), (911, 52818), (912, 52827), (925, 52869), (928, 52881),

Gene: Shaqnato_200 Start: 112249, Stop: 115644, Start Num: 66

Candidate Starts for Shaqnato_200:

(Start: 18 @112126 has 5 MA's), (Start: 23 @112156 has 44 MA's), (Start: 25 @112162 has 6 MA's), (Start: 32 @112174 has 9 MA's), (38, 112183), (Start: 66 @112249 has 166 MA's), (83, 112324), (104, 112438), (112, 112462), (133, 112522), (162, 112633), (170, 112672), (177, 112696), (185, 112738), (211, 112837), (221, 112879), (222, 112885), (227, 112897), (237, 112960), (251, 113020), (252, 113023), (259, 113050), (272, 113092), (Start: 292 @113155 has 9 MA's), (344, 113275), (351, 113311), (356, 113329), (359, 113344), (373, 113461), (379, 113500), (395, 113620), (403, 113662), (413, 113707), (415, 113716), (428, 113767), (441, 113809), (461, 113875), (464, 113884), (465, 113887), (467, 113893), (468, 113896), (469, 113905), (471, 113911), (474, 113926), (499, 114013), (530, 114118), (541, 114172), (556, 114259), (562, 114289), (572, 114319), (579, 114352), (581, 114361), (592, 114433), (596, 114463), (622, 114580), (632, 114625), (643, 114667), (680, 114811), (702, 114871), (738, 114973), (770, 115060), (772, 115063), (779, 115081), (791, 115117), (792, 115120), (813, 115180), (818, 115198), (851, 115294), (858, 115324), (864, 115342), (876, 115372), (911, 115465), (914, 115480), (939, 115561), (940, 115567), (944, 115579),

Gene: Shelob_210 Start: 114989, Stop: 118384, Start Num: 66

Candidate Starts for Shelob_210:

(Start: 23 @114896 has 44 MA's), (Start: 25 @114902 has 6 MA's), (Start: 32 @114914 has 9 MA's), (38, 114923), (Start: 66 @114989 has 166 MA's), (83, 115064), (104, 115178), (112, 115202), (133, 115262), (162, 115373), (170, 115412), (177, 115436), (185, 115478), (211, 115577), (221, 115619), (222, 115625), (227, 115637), (237, 115700), (251, 115760), (252, 115763), (259, 115790), (272,

115832), (Start: 292 @115895 has 9 MA's), (344, 116015), (351, 116051), (356, 116069), (359, 116084), (373, 116201), (379, 116240), (395, 116360), (403, 116402), (413, 116447), (415, 116456), (428, 116507), (441, 116549), (461, 116615), (464, 116624), (465, 116627), (467, 116633), (468, 116636), (469, 116645), (471, 116651), (474, 116666), (499, 116753), (530, 116858), (541, 116912), (556, 116999), (562, 117029), (572, 117059), (579, 117092), (581, 117101), (592, 117173), (596, 117203), (622, 117320), (632, 117365), (643, 117407), (680, 117551), (702, 117611), (738, 117713), (770, 117800), (772, 117803), (779, 117821), (791, 117857), (792, 117860), (813, 117920), (818, 117938), (851, 118034), (858, 118064), (864, 118082), (876, 118112), (911, 118205), (914, 118220), (939, 118301), (940, 118307), (944, 118319),

Gene: ShiaLabeouf_206 Start: 112023, Stop: 115418, Start Num: 66

Candidate Starts for ShiaLabeouf_206:

(Start: 23 @111930 has 44 MA's), (Start: 25 @111936 has 6 MA's), (Start: 32 @111948 has 9 MA's), (38, 111957), (Start: 66 @112023 has 166 MA's), (83, 112098), (104, 112212), (112, 112236), (133, 112296), (162, 112407), (170, 112446), (177, 112470), (185, 112512), (211, 112611), (221, 112653), (222, 112659), (227, 112671), (237, 112734), (251, 112794), (252, 112797), (259, 112824), (272, 112866), (Start: 292 @112929 has 9 MA's), (351, 113085), (356, 113103), (359, 113118), (373, 113235), (379, 113274), (395, 113394), (403, 113436), (413, 113481), (415, 113490), (428, 113541), (441, 113583), (461, 113649), (464, 113658), (465, 113661), (467, 113667), (468, 113670), (469, 113679), (471, 113685), (474, 113700), (499, 113787), (530, 113892), (541, 113946), (556, 114033), (562, 114063), (572, 114093), (579, 114126), (581, 114135), (592, 114207), (596, 114237), (622, 114354), (632, 114399), (643, 114441), (680, 114585), (702, 114645), (738, 114747), (770, 114834), (772, 114837), (779, 114855), (791, 114891), (792, 114894), (813, 114954), (818, 114972), (851, 115068), (858, 115098), (864, 115116), (876, 115146), (911, 115239), (914, 115254), (939, 115335), (940, 115341), (944, 115353),

Gene: Shifa_186 Start: 112600, Stop: 115995, Start Num: 66

Candidate Starts for Shifa_186:

(Start: 23 @112507 has 44 MA's), (Start: 25 @112513 has 6 MA's), (Start: 32 @112525 has 9 MA's), (38, 112534), (Start: 66 @112600 has 166 MA's), (83, 112675), (104, 112789), (112, 112813), (133, 112873), (156, 112966), (162, 112984), (170, 113023), (177, 113047), (185, 113089), (211, 113188), (221, 113230), (222, 113236), (227, 113248), (237, 113311), (251, 113371), (252, 113374), (259, 113401), (272, 113443), (Start: 292 @113506 has 9 MA's), (351, 113662), (356, 113680), (359, 113695), (373, 113812), (379, 113851), (395, 113971), (403, 114013), (413, 114058), (415, 114067), (428, 114118), (441, 114160), (461, 114226), (464, 114235), (465, 114238), (467, 114244), (468, 114247), (469, 114256), (471, 114262), (474, 114277), (499, 114364), (530, 114469), (541, 114523), (556, 114610), (562, 114640), (572, 114670), (579, 114703), (581, 114712), (592, 114784), (596, 114814), (622, 114931), (632, 114976), (643, 115018), (680, 115162), (702, 115222), (738, 115324), (770, 115411), (772, 115414), (779, 115432), (791, 115468), (792, 115471), (813, 115531), (818, 115549), (851, 115645), (858, 115675), (864, 115693), (876, 115723), (911, 115816), (914, 115831), (939, 115912), (940, 115918), (944, 115930),

Gene: Shnickers_207 Start: 112087, Stop: 115482, Start Num: 66

Candidate Starts for Shnickers_207:

(Start: 23 @111994 has 44 MA's), (Start: 25 @112000 has 6 MA's), (Start: 32 @112012 has 9 MA's), (38, 112021), (Start: 66 @112087 has 166 MA's), (83, 112162), (104, 112276), (112, 112300), (133, 112360), (162, 112471), (170, 112510), (177, 112534), (185, 112576), (211, 112675), (221, 112717), (222, 112723), (227, 112735), (237, 112798), (251, 112858), (252, 112861), (259, 112888), (272, 112930), (Start: 292 @112993 has 9 MA's), (351, 113149), (356, 113167), (359, 113182), (373, 113299), (379, 113338), (395, 113458), (403, 113500), (413, 113545), (415, 113554), (428, 113605), (441, 113647), (461, 113713), (464, 113722), (465, 113725), (467, 113731), (468, 113734), (469, 113743), (471, 113749), (474, 113764), (499, 113851), (530, 113956), (541, 114010), (556, 114097), (562, 114127), (572, 114157), (579, 114190), (581, 114199), (592, 114271), (596, 114301), (622,

114418), (632, 114463), (643, 114505), (680, 114649), (702, 114709), (738, 114811), (770, 114898), (772, 114901), (779, 114919), (791, 114955), (792, 114958), (813, 115018), (818, 115036), (851, 115132), (858, 115162), (864, 115180), (876, 115210), (911, 115303), (914, 115318), (939, 115399), (940, 115405), (944, 115417),

Gene: Shrimp_211 Start: 114051, Stop: 117539, Start Num: 23

Candidate Starts for Shrimp_211:

(Start: 23 @114051 has 44 MA's), (Start: 25 @114057 has 6 MA's), (Start: 32 @114069 has 9 MA's), (38, 114078), (Start: 66 @114144 has 166 MA's), (83, 114219), (104, 114333), (112, 114357), (133, 114417), (162, 114528), (170, 114567), (177, 114591), (185, 114633), (211, 114732), (221, 114774), (222, 114780), (227, 114792), (237, 114855), (251, 114915), (252, 114918), (259, 114945), (272, 114987), (Start: 292 @115050 has 9 MA's), (351, 115206), (356, 115224), (359, 115239), (373, 115356), (379, 115395), (395, 115515), (403, 115557), (413, 115602), (415, 115611), (428, 115662), (441, 115704), (461, 115770), (464, 115779), (465, 115782), (467, 115788), (468, 115791), (469, 115800), (471, 115806), (474, 115821), (499, 115908), (530, 116013), (541, 116067), (556, 116154), (562, 116184), (572, 116214), (579, 116247), (581, 116256), (592, 116328), (596, 116358), (622, 116475), (632, 116520), (643, 116562), (680, 116706), (702, 116766), (738, 116868), (770, 116955), (772, 116958), (779, 116976), (791, 117012), (792, 117015), (813, 117075), (818, 117093), (851, 117189), (858, 117219), (864, 117237), (876, 117267), (911, 117360), (914, 117375), (939, 117456), (940, 117462), (944, 117474),

Gene: Shuckle_78 Start: 59352, Stop: 62636, Start Num: 68

Candidate Starts for Shuckle_78:

(Start: 68 @59352 has 63 MA's), (78, 59397), (84, 59427), (88, 59445), (Start: 89 @59451 has 8 MA's), (157, 59730), (182, 59832), (214, 59910), (235, 60015), (249, 60078), (250, 60084), (251, 60087), (262, 60123), (298, 60240), (330, 60324), (334, 60339), (358, 60450), (367, 60480), (371, 60519), (471, 60906), (497, 61011), (498, 61017), (499, 61023), (502, 61047), (521, 61107), (534, 61137), (535, 61140), (548, 61179), (554, 61206), (564, 61251), (580, 61314), (592, 61386), (603, 61440), (606, 61449), (608, 61458), (610, 61467), (612, 61473), (675, 61716), (698, 61785), (702, 61797), (708, 61818), (735, 61902), (795, 62097), (807, 62130), (822, 62181), (835, 62226), (855, 62292), (870, 62340), (895, 62421), (911, 62472), (922, 62517), (923, 62520), (928, 62535),

Gene: Sienna_66 Start: 47793, Stop: 50228, Start Num: 307

Candidate Starts for Sienna_66:

(Start: 307 @47793 has 8 MA's), (312, 47811), (357, 47991), (376, 48105), (378, 48120), (435, 48411), (471, 48498), (501, 48627), (508, 48666), (512, 48672), (526, 48693), (530, 48702), (582, 48900), (584, 48915), (585, 48921), (592, 48963), (606, 49026), (612, 49050), (625, 49107), (632, 49131), (643, 49170), (663, 49236), (666, 49248), (671, 49266), (691, 49359), (695, 49374), (707, 49410), (743, 49512), (831, 49704), (832, 49707), (853, 49782), (855, 49788), (873, 49845), (881, 49872), (884, 49884), (906, 49968), (916, 49998), (935, 50067), (943, 50091), (948, 50106), (964, 50157), (967, 50169), (969, 50172), (975, 50187), (982, 50223),

Gene: SilentWarrior_58 Start: 40669, Stop: 42969, Start Num: 287

Candidate Starts for SilentWarrior_58:

(Start: 287 @40669 has 29 MA's), (Start: 290 @40675 has 6 MA's), (324, 40750), (344, 40822), (348, 40843), (356, 40876), (358, 40888), (361, 40909), (364, 40915), (375, 40984), (378, 41008), (381, 41047), (391, 41104), (405, 41185), (435, 41299), (440, 41311), (471, 41386), (475, 41404), (493, 41482), (496, 41488), (498, 41497), (503, 41530), (508, 41560), (512, 41566), (526, 41587), (530, 41596), (538, 41626), (558, 41701), (560, 41710), (570, 41734), (571, 41740), (572, 41746), (575, 41755), (592, 41857), (608, 41929), (614, 41953), (635, 42037), (663, 42127), (666, 42139), (671, 42157), (687, 42235), (688, 42241), (692, 42250), (702, 42283), (729, 42355), (840, 42535), (850, 42565), (868, 42628), (892, 42700), (929, 42823), (938, 42856), (953, 42901), (966, 42946), (969, 42952),

Gene: SilverDipper_213 Start: 113543, Stop: 117031, Start Num: 23

Candidate Starts for SilverDipper_213:

(Start: 23 @113543 has 44 MA's), (Start: 25 @113549 has 6 MA's), (Start: 32 @113561 has 9 MA's), (38, 113570), (Start: 66 @113636 has 166 MA's), (83, 113711), (104, 113825), (112, 113849), (133, 113909), (162, 114020), (170, 114059), (177, 114083), (185, 114125), (211, 114224), (221, 114266), (222, 114272), (227, 114284), (237, 114347), (251, 114407), (252, 114410), (259, 114437), (272, 114479), (Start: 292 @114542 has 9 MA's), (344, 114662), (351, 114698), (356, 114716), (359, 114731), (373, 114848), (379, 114887), (395, 115007), (403, 115049), (413, 115094), (415, 115103), (428, 115154), (441, 115196), (461, 115262), (464, 115271), (465, 115274), (467, 115280), (468, 115283), (469, 115292), (471, 115298), (474, 115313), (499, 115400), (530, 115505), (541, 115559), (556, 115646), (562, 115676), (572, 115706), (579, 115739), (581, 115748), (592, 115820), (596, 115850), (622, 115967), (632, 116012), (643, 116054), (680, 116198), (702, 116258), (738, 116360), (770, 116447), (772, 116450), (779, 116468), (791, 116504), (792, 116507), (813, 116567), (818, 116585), (851, 116681), (858, 116711), (864, 116729), (876, 116759), (911, 116852), (914, 116867), (939, 116948), (940, 116954), (944, 116966),

Gene: SirHarley_69 Start: 50202, Stop: 53504, Start Num: 26

Candidate Starts for SirHarley_69:

(Start: 26 @50202 has 20 MA's), (Start: 61 @50289 has 1 MA's), (65, 50295), (Start: 72 @50304 has 72 MA's), (Start: 89 @50400 has 8 MA's), (127, 50556), (151, 50643), (152, 50646), (163, 50697), (233, 50961), (240, 51000), (258, 51072), (261, 51081), (283, 51156), (308, 51222), (309, 51228), (329, 51282), (338, 51300), (347, 51351), (348, 51354), (355, 51384), (371, 51468), (372, 51477), (376, 51504), (378, 51519), (405, 51696), (407, 51705), (435, 51810), (469, 51891), (482, 51951), (502, 52026), (508, 52059), (512, 52065), (526, 52086), (530, 52095), (543, 52140), (560, 52209), (565, 52224), (582, 52293), (600, 52389), (601, 52392), (612, 52443), (631, 52518), (666, 52641), (671, 52659), (691, 52737), (692, 52740), (695, 52752), (710, 52797), (721, 52818), (724, 52830), (733, 52860), (740, 52881), (801, 52953), (829, 53010), (860, 53109), (882, 53175), (906, 53265), (916, 53295), (917, 53298), (927, 53328), (938, 53373), (951, 53415), (961, 53445), (964, 53457), (969, 53472), (971, 53481),

Gene: Skog_212 Start: 135640, Stop: 139095, Start Num: 66

Candidate Starts for Skog_212:

(14, 135490), (19, 135517), (21, 135523), (45, 135607), (Start: 66 @135640 has 166 MA's), (83, 135715), (133, 135913), (142, 135949), (161, 136021), (163, 136042), (193, 136162), (198, 136186), (201, 136210), (207, 136231), (211, 136258), (221, 136300), (234, 136369), (237, 136381), (251, 136438), (252, 136441), (259, 136468), (269, 136495), (Start: 292 @136570 has 9 MA's), (359, 136759), (360, 136762), (363, 136795), (410, 137113), (413, 137128), (414, 137131), (457, 137275), (474, 137338), (475, 137341), (476, 137344), (477, 137353), (481, 137371), (499, 137434), (500, 137443), (517, 137506), (542, 137596), (562, 137707), (576, 137749), (590, 137845), (592, 137848), (602, 137899), (603, 137902), (624, 137989), (666, 138160), (733, 138382), (806, 138583), (844, 138706), (857, 138757), (858, 138760), (864, 138778), (876, 138808), (881, 138826), (892, 138856), (893, 138859), (910, 138898), (911, 138901),

Gene: Skysand_61 Start: 49139, Stop: 45828, Start Num: 72

Candidate Starts for Skysand_61:

(1, 49391), (9, 49304), (15, 49277), (Start: 72 @49139 has 72 MA's), (84, 49067), (Start: 89 @49043 has 8 MA's), (124, 48890), (127, 48881), (160, 48758), (204, 48599), (206, 48593), (212, 48569), (234, 48461), (240, 48431), (311, 48224), (356, 48053), (365, 48011), (376, 47933), (378, 47918), (399, 47780), (460, 47582), (475, 47525), (484, 47480), (502, 47414), (521, 47363), (530, 47345), (543, 47300), (593, 47057), (602, 47015), (603, 47012), (605, 47006), (610, 46988), (634, 46892), (640, 46874), (648, 46838), (688, 46694), (692, 46685), (699, 46661), (708, 46634), (722, 46610), (759, 46481), (795, 46394), (799, 46385), (824, 46313), (831, 46292), (889, 46121), (962, 45872), (971,

45842),

Gene: SmallFry_209 Start: 112181, Stop: 115576, Start Num: 66

Candidate Starts for SmallFry_209:

(Start: 23 @112088 has 44 MA's), (Start: 25 @112094 has 6 MA's), (Start: 32 @112106 has 9 MA's), (38, 112115), (Start: 66 @112181 has 166 MA's), (83, 112256), (104, 112370), (112, 112394), (133, 112454), (162, 112565), (170, 112604), (177, 112628), (185, 112670), (211, 112769), (221, 112811), (222, 112817), (227, 112829), (237, 112892), (251, 112952), (252, 112955), (259, 112982), (272, 113024), (Start: 292 @113087 has 9 MA's), (351, 113243), (356, 113261), (359, 113276), (373, 113393), (379, 113432), (395, 113552), (403, 113594), (413, 113639), (415, 113648), (428, 113699), (441, 113741), (461, 113807), (464, 113816), (465, 113819), (467, 113825), (468, 113828), (469, 113837), (471, 113843), (474, 113858), (499, 113945), (530, 114050), (541, 114104), (556, 114191), (562, 114221), (572, 114251), (579, 114284), (581, 114293), (592, 114365), (596, 114395), (622, 114512), (632, 114557), (643, 114599), (680, 114743), (702, 114803), (738, 114905), (770, 114992), (772, 114995), (779, 115013), (791, 115049), (792, 115052), (813, 115112), (818, 115130), (851, 115226), (858, 115256), (864, 115274), (876, 115304), (911, 115397), (914, 115412), (939, 115493), (940, 115499), (944, 115511),

Gene: Snakehole_58 Start: 40677, Stop: 42980, Start Num: 287

Candidate Starts for Snakehole_58:

(Start: 287 @40677 has 29 MA's), (Start: 290 @40683 has 6 MA's), (324, 40761), (344, 40833), (348, 40854), (356, 40887), (358, 40899), (359, 40902), (361, 40920), (364, 40926), (375, 40995), (378, 41019), (381, 41058), (388, 41103), (391, 41115), (405, 41196), (435, 41310), (440, 41322), (471, 41397), (475, 41415), (493, 41493), (496, 41499), (498, 41508), (503, 41541), (508, 41571), (512, 41577), (526, 41598), (530, 41607), (538, 41637), (558, 41712), (560, 41721), (564, 41733), (571, 41751), (575, 41766), (592, 41868), (608, 41940), (614, 41964), (635, 42048), (663, 42138), (666, 42150), (671, 42168), (687, 42246), (688, 42252), (692, 42261), (702, 42294), (729, 42366), (840, 42546), (850, 42576), (868, 42639), (892, 42711), (929, 42834), (938, 42867), (953, 42912), (966, 42957), (969, 42963),

Gene: Snorlax_54 Start: 42492, Stop: 39007, Start Num: 66

Candidate Starts for Snorlax_54:

(Start: 32 @42561 has 9 MA's), (Start: 66 @42492 has 166 MA's), (Start: 81 @42429 has 1 MA's), (83, 42420), (91, 42378), (108, 42285), (126, 42216), (143, 42147), (156, 42093), (174, 42021), (182, 41985), (198, 41925), (255, 41700), (270, 41661), (277, 41634), (282, 41616), (Start: 290 @41595 has 6 MA's), (295, 41580), (321, 41538), (347, 41460), (350, 41448), (380, 41262), (381, 41256), (388, 41211), (404, 41127), (407, 41109), (422, 41052), (423, 41049), (426, 41037), (469, 40899), (471, 40893), (474, 40878), (476, 40872), (482, 40839), (504, 40761), (514, 40728), (558, 40587), (580, 40506), (581, 40500), (592, 40431), (602, 40368), (608, 40347), (618, 40302), (645, 40206), (647, 40197), (649, 40191), (675, 40089), (678, 40080), (681, 40068), (684, 40047), (697, 40017), (706, 39990), (731, 39924), (733, 39915), (737, 39903), (765, 39816), (816, 39648), (833, 39600), (866, 39489), (905, 39351), (908, 39342), (914, 39315), (928, 39267), (936, 39234), (944, 39207), (976, 39102), (978, 39090),

Gene: Sollertia_82 Start: 58392, Stop: 61712, Start Num: 67

Candidate Starts for Sollertia_82:

(Start: 67 @58392 has 30 MA's), (84, 58464), (Start: 89 @58488 has 8 MA's), (103, 58569), (157, 58767), (214, 58947), (226, 58995), (235, 59052), (245, 59103), (249, 59121), (251, 59130), (262, 59166), (298, 59283), (328, 59355), (355, 59478), (358, 59493), (395, 59727), (411, 59805), (469, 59967), (475, 59991), (499, 60090), (521, 60174), (548, 60246), (592, 60450), (603, 60504), (606, 60513), (610, 60531), (612, 60537), (643, 60651), (666, 60729), (672, 60753), (675, 60780), (748, 61035), (751, 61053), (755, 61065), (790, 61155), (809, 61215), (822, 61257), (835, 61302), (845, 61329), (855, 61368), (870, 61416), (873, 61425), (895, 61497), (899, 61518), (907, 61545), (911,

61548), (923, 61596), (941, 61662), (942, 61665),

Gene: South40_54 Start: 42740, Stop: 39261, Start Num: 66

Candidate Starts for South40_54:

(Start: 32 @42806 has 9 MA's), (Start: 66 @42740 has 166 MA's), (Start: 81 @42677 has 1 MA's), (83, 42668), (86, 42656), (91, 42626), (108, 42533), (119, 42500), (126, 42464), (143, 42395), (156, 42341), (174, 42269), (198, 42173), (226, 42095), (255, 41948), (270, 41909), (282, 41864), (Start: 290 @41843 has 6 MA's), (295, 41828), (313, 41807), (347, 41708), (350, 41696), (365, 41633), (380, 41510), (381, 41504), (388, 41459), (404, 41375), (407, 41357), (422, 41300), (423, 41297), (426, 41285), (469, 41147), (474, 41126), (476, 41120), (478, 41105), (493, 41063), (503, 41015), (504, 41009), (514, 40976), (558, 40835), (576, 40778), (580, 40754), (581, 40748), (592, 40679), (601, 40631), (602, 40616), (608, 40595), (618, 40550), (645, 40454), (647, 40445), (675, 40337), (678, 40328), (681, 40316), (684, 40295), (697, 40265), (706, 40238), (733, 40163), (737, 40151), (765, 40064), (776, 40040), (833, 39848), (866, 39737), (905, 39599), (914, 39563), (928, 39515), (929, 39509), (936, 39482), (976, 39350), (978, 39338), (979, 39332), (985, 39275),

Gene: Sparcetus_63 Start: 42534, Stop: 44789, Start Num: 290

Candidate Starts for Sparcetus_63:

(Start: 285 @42525 has 3 MA's), (Start: 290 @42534 has 6 MA's), (348, 42669), (356, 42702), (359, 42717), (376, 42819), (378, 42834), (391, 42930), (405, 43011), (407, 43020), (434, 43119), (435, 43125), (471, 43212), (475, 43230), (481, 43260), (487, 43281), (489, 43293), (493, 43308), (498, 43323), (503, 43356), (508, 43386), (512, 43392), (526, 43413), (530, 43422), (538, 43452), (559, 43533), (564, 43548), (571, 43566), (575, 43581), (590, 43680), (648, 43911), (649, 43914), (666, 43965), (671, 43983), (673, 43995), (681, 44037), (688, 44067), (692, 44076), (724, 44166), (802, 44268), (828, 44319), (842, 44364), (860, 44427), (868, 44451), (879, 44481), (882, 44487), (938, 44676), (953, 44721), (966, 44766), (969, 44772),

Gene: SparkleGoddess_61 Start: 49852, Stop: 53142, Start Num: 68

Candidate Starts for SparkleGoddess_61:

(55, 49834), (Start: 68 @49852 has 63 MA's), (74, 49867), (75, 49873), (79, 49903), (84, 49924), (88, 49942), (Start: 89 @49948 has 8 MA's), (129, 50116), (140, 50158), (157, 50227), (172, 50287), (210, 50401), (214, 50407), (235, 50512), (249, 50575), (250, 50581), (262, 50620), (328, 50809), (342, 50866), (346, 50893), (357, 50938), (407, 51244), (416, 51280), (460, 51364), (471, 51403), (497, 51508), (499, 51520), (504, 51553), (512, 51583), (514, 51586), (519, 51598), (521, 51604), (548, 51676), (562, 51742), (564, 51748), (580, 51811), (592, 51883), (603, 51937), (606, 51946), (610, 51964), (612, 51970), (643, 52084), (663, 52150), (666, 52162), (672, 52186), (678, 52222), (679, 52225), (698, 52282), (700, 52288), (704, 52300), (714, 52336), (737, 52405), (799, 52603), (809, 52636), (820, 52672), (822, 52678), (826, 52690), (855, 52789), (857, 52798), (864, 52819), (874, 52849), (892, 52906), (911, 52969), (925, 53020), (928, 53032),

Gene: Spec_204 Start: 112372, Stop: 115767, Start Num: 66

Candidate Starts for Spec_204:

(Start: 23 @112279 has 44 MA's), (Start: 25 @112285 has 6 MA's), (Start: 32 @112297 has 9 MA's), (38, 112306), (Start: 66 @112372 has 166 MA's), (83, 112447), (104, 112561), (112, 112585), (133, 112645), (162, 112756), (170, 112795), (177, 112819), (185, 112861), (211, 112960), (221, 113002), (222, 113008), (227, 113020), (237, 113083), (251, 113143), (252, 113146), (259, 113173), (272, 113215), (Start: 292 @113278 has 9 MA's), (351, 113434), (356, 113452), (359, 113467), (373, 113584), (379, 113623), (395, 113743), (403, 113785), (413, 113830), (415, 113839), (428, 113890), (441, 113932), (461, 113998), (464, 114007), (465, 114010), (467, 114016), (468, 114019), (469, 114028), (471, 114034), (474, 114049), (499, 114136), (530, 114241), (541, 114295), (556, 114382), (562, 114412), (572, 114442), (579, 114475), (581, 114484), (592, 114556), (596, 114586), (622, 114703), (632, 114748), (643, 114790), (680, 114934), (702, 114994), (738, 115096), (770, 115183), (772, 115186), (779, 115204), (791, 115240), (792, 115243), (813, 115303), (818, 115321), (851,

115417), (858, 115447), (864, 115465), (876, 115495), (911, 115588), (914, 115603), (939, 115684), (940, 115690), (944, 115702),

Gene: Specks_213 Start: 114490, Stop: 117885, Start Num: 66

Candidate Starts for Specks_213:

(Start: 23 @114397 has 44 MA's), (Start: 25 @114403 has 6 MA's), (Start: 32 @114415 has 9 MA's), (38, 114424), (Start: 66 @114490 has 166 MA's), (83, 114565), (104, 114679), (112, 114703), (133, 114763), (162, 114874), (170, 114913), (177, 114937), (185, 114979), (211, 115078), (221, 115120), (222, 115126), (227, 115138), (237, 115201), (251, 115261), (252, 115264), (259, 115291), (272, 115333), (Start: 292 @115396 has 9 MA's), (351, 115552), (356, 115570), (359, 115585), (373, 115702), (379, 115741), (395, 115861), (403, 115903), (413, 115948), (415, 115957), (428, 116008), (441, 116050), (461, 116116), (464, 116125), (465, 116128), (467, 116134), (468, 116137), (469, 116146), (471, 116152), (474, 116167), (499, 116254), (530, 116359), (541, 116413), (556, 116500), (562, 116530), (572, 116560), (579, 116593), (581, 116602), (592, 116674), (596, 116704), (622, 116821), (632, 116866), (643, 116908), (680, 117052), (702, 117112), (738, 117214), (770, 117301), (772, 117304), (779, 117322), (791, 117358), (792, 117361), (813, 117421), (818, 117439), (851, 117535), (858, 117565), (864, 117583), (876, 117613), (911, 117706), (914, 117721), (939, 117802), (940, 117808), (944, 117820),

Gene: Spelly_82 Start: 58398, Stop: 61718, Start Num: 67

Candidate Starts for Spelly_82:

(Start: 67 @58398 has 30 MA's), (79, 58449), (84, 58470), (Start: 89 @58494 has 8 MA's), (103, 58575), (157, 58773), (214, 58953), (226, 59001), (235, 59058), (236, 59061), (245, 59109), (249, 59127), (251, 59136), (262, 59172), (295, 59280), (298, 59289), (358, 59499), (371, 59568), (395, 59733), (411, 59811), (469, 59973), (499, 60096), (502, 60120), (521, 60180), (543, 60243), (548, 60252), (592, 60456), (603, 60510), (606, 60519), (610, 60537), (612, 60543), (664, 60726), (666, 60735), (672, 60759), (675, 60786), (706, 60894), (760, 61083), (790, 61161), (806, 61203), (809, 61221), (822, 61263), (834, 61302), (835, 61308), (845, 61335), (855, 61374), (870, 61422), (873, 61431), (895, 61503), (899, 61524), (907, 61551), (911, 61554), (914, 61569), (923, 61602), (942, 61671),

Gene: Spilled_83 Start: 58515, Stop: 61835, Start Num: 67

Candidate Starts for Spilled_83:

(Start: 67 @58515 has 30 MA's), (79, 58566), (84, 58587), (Start: 89 @58611 has 8 MA's), (103, 58692), (157, 58890), (214, 59070), (226, 59118), (227, 59121), (235, 59175), (236, 59178), (245, 59226), (249, 59244), (251, 59253), (262, 59289), (295, 59397), (298, 59406), (358, 59616), (371, 59685), (395, 59850), (411, 59928), (428, 59997), (469, 60090), (499, 60213), (521, 60297), (543, 60360), (548, 60369), (592, 60573), (603, 60627), (606, 60636), (610, 60654), (612, 60660), (666, 60852), (672, 60876), (675, 60903), (706, 61011), (760, 61200), (790, 61278), (806, 61320), (809, 61338), (822, 61380), (834, 61419), (835, 61425), (845, 61452), (855, 61491), (870, 61539), (895, 61620), (899, 61641), (907, 61668), (911, 61671), (914, 61686), (923, 61719), (942, 61788),

Gene: Sprinklers_207 Start: 112739, Stop: 116134, Start Num: 66

Candidate Starts for Sprinklers_207:

(Start: 18 @112616 has 5 MA's), (Start: 23 @112646 has 44 MA's), (Start: 25 @112652 has 6 MA's), (Start: 32 @112664 has 9 MA's), (38, 112673), (Start: 66 @112739 has 166 MA's), (83, 112814), (104, 112928), (112, 112952), (133, 113012), (162, 113123), (170, 113162), (177, 113186), (185, 113228), (211, 113327), (221, 113369), (222, 113375), (227, 113387), (237, 113450), (251, 113510), (252, 113513), (259, 113540), (272, 113582), (Start: 292 @113645 has 9 MA's), (344, 113765), (351, 113801), (356, 113819), (359, 113834), (373, 113951), (379, 113990), (395, 114110), (403, 114152), (413, 114197), (415, 114206), (428, 114257), (441, 114299), (461, 114365), (464, 114374), (465, 114377), (467, 114383), (468, 114386), (469, 114395), (471, 114401), (474, 114416), (499, 114503), (530, 114608), (541, 114662), (556, 114749), (562, 114779), (572, 114809), (579, 114842), (581,

114851), (592, 114923), (596, 114953), (622, 115070), (632, 115115), (643, 115157), (680, 115301), (702, 115361), (738, 115463), (770, 115550), (772, 115553), (779, 115571), (791, 115607), (792, 115610), (813, 115670), (818, 115688), (851, 115784), (858, 115814), (864, 115832), (876, 115862), (911, 115955), (914, 115970), (939, 116051), (940, 116057), (944, 116069),

Gene: Spud_203 Start: 112451, Stop: 115846, Start Num: 66

Candidate Starts for Spud_203:

(Start: 23 @112358 has 44 MA's), (Start: 25 @112364 has 6 MA's), (Start: 32 @112376 has 9 MA's), (38, 112385), (Start: 66 @112451 has 166 MA's), (83, 112526), (104, 112640), (112, 112664), (133, 112724), (162, 112835), (170, 112874), (177, 112898), (185, 112940), (211, 113039), (221, 113081), (222, 113087), (227, 113099), (237, 113162), (251, 113222), (252, 113225), (259, 113252), (272, 113294), (Start: 292 @113357 has 9 MA's), (344, 113477), (351, 113513), (356, 113531), (359, 113546), (373, 113663), (379, 113702), (395, 113822), (403, 113864), (413, 113909), (415, 113918), (428, 113969), (441, 114011), (461, 114077), (464, 114086), (465, 114089), (467, 114095), (468, 114098), (469, 114107), (471, 114113), (474, 114128), (499, 114215), (530, 114320), (541, 114374), (556, 114461), (562, 114491), (572, 114521), (579, 114554), (581, 114563), (592, 114635), (596, 114665), (622, 114782), (632, 114827), (643, 114869), (680, 115013), (702, 115073), (738, 115175), (770, 115262), (772, 115265), (779, 115283), (791, 115319), (792, 115322), (813, 115382), (818, 115400), (851, 115496), (858, 115526), (864, 115544), (876, 115574), (911, 115667), (914, 115682), (939, 115763), (940, 115769), (944, 115781),

Gene: Squillium_79 Start: 58567, Stop: 61851, Start Num: 68

Candidate Starts for Squillium_79:

(Start: 68 @58567 has 63 MA's), (78, 58612), (84, 58642), (88, 58660), (Start: 89 @58666 has 8 MA's), (100, 58732), (157, 58945), (160, 58951), (182, 59047), (214, 59125), (235, 59230), (249, 59293), (250, 59299), (262, 59338), (298, 59455), (334, 59554), (358, 59665), (367, 59695), (371, 59734), (411, 59977), (471, 60121), (474, 60136), (498, 60232), (499, 60238), (502, 60262), (521, 60322), (543, 60385), (548, 60394), (564, 60466), (580, 60529), (592, 60601), (603, 60655), (606, 60664), (608, 60673), (610, 60682), (612, 60688), (632, 60769), (663, 60868), (675, 60931), (698, 61000), (702, 61012), (753, 61198), (760, 61216), (795, 61312), (807, 61345), (822, 61396), (834, 61435), (835, 61441), (855, 61507), (864, 61537), (870, 61555), (881, 61591), (895, 61636), (896, 61645), (901, 61666), (911, 61687), (923, 61735), (928, 61750),

Gene: SrishMeg2525_206 Start: 113615, Stop: 117010, Start Num: 66

Candidate Starts for SrishMeg2525_206:

(Start: 23 @113522 has 44 MA's), (Start: 25 @113528 has 6 MA's), (Start: 32 @113540 has 9 MA's), (38, 113549), (Start: 66 @113615 has 166 MA's), (83, 113690), (104, 113804), (112, 113828), (133, 113888), (162, 113999), (170, 114038), (177, 114062), (185, 114104), (211, 114203), (221, 114245), (222, 114251), (227, 114263), (237, 114326), (251, 114386), (252, 114389), (259, 114416), (272, 114458), (Start: 292 @114521 has 9 MA's), (351, 114677), (356, 114695), (359, 114710), (373, 114827), (379, 114866), (395, 114986), (403, 115028), (413, 115073), (415, 115082), (428, 115133), (441, 115175), (461, 115241), (464, 115250), (465, 115253), (467, 115259), (468, 115262), (469, 115271), (471, 115277), (474, 115292), (499, 115379), (530, 115484), (541, 115538), (556, 115625), (562, 115655), (572, 115685), (579, 115718), (581, 115727), (592, 115799), (596, 115829), (622, 115946), (632, 115991), (643, 116033), (680, 116177), (702, 116237), (738, 116339), (770, 116426), (772, 116429), (779, 116447), (791, 116483), (792, 116486), (813, 116546), (818, 116564), (851, 116660), (858, 116690), (864, 116708), (876, 116738), (911, 116831), (914, 116846), (939, 116927), (940, 116933), (944, 116945),

Gene: Stanimal_82 Start: 58281, Stop: 61601, Start Num: 67

Candidate Starts for Stanimal_82:

(Start: 67 @58281 has 30 MA's), (84, 58353), (Start: 89 @58377 has 8 MA's), (103, 58458), (157, 58656), (214, 58836), (226, 58884), (235, 58941), (245, 58992), (249, 59010), (251, 59019), (262,

59055), (295, 59163), (298, 59172), (328, 59244), (358, 59382), (371, 59451), (395, 59616), (411, 59694), (469, 59856), (475, 59880), (499, 59979), (521, 60063), (548, 60135), (592, 60339), (603, 60393), (606, 60402), (610, 60420), (612, 60426), (643, 60540), (666, 60618), (672, 60642), (675, 60669), (747, 60921), (748, 60924), (751, 60942), (755, 60954), (790, 61044), (809, 61104), (822, 61146), (834, 61185), (835, 61191), (845, 61218), (855, 61257), (870, 61305), (873, 61314), (895, 61386), (897, 61398), (899, 61407), (907, 61434), (911, 61437), (914, 61452), (923, 61485), (938, 61539), (942, 61554),

Gene: StarPlatinum_82 Start: 58954, Stop: 62274, Start Num: 67

Candidate Starts for StarPlatinum_82:

(Start: 67 @58954 has 30 MA's), (79, 59005), (84, 59026), (Start: 89 @59050 has 8 MA's), (103, 59131), (157, 59329), (204, 59485), (214, 59509), (226, 59557), (227, 59560), (235, 59614), (245, 59665), (249, 59683), (251, 59692), (262, 59728), (295, 59836), (298, 59845), (328, 59917), (358, 60055), (371, 60124), (395, 60289), (411, 60367), (469, 60529), (499, 60652), (521, 60736), (548, 60808), (592, 61012), (603, 61066), (606, 61075), (610, 61093), (612, 61099), (666, 61291), (672, 61315), (675, 61342), (698, 61423), (706, 61450), (747, 61594), (748, 61597), (751, 61615), (755, 61627), (790, 61717), (809, 61777), (822, 61819), (834, 61858), (835, 61864), (845, 61891), (855, 61930), (870, 61978), (873, 61987), (895, 62059), (897, 62071), (899, 62080), (907, 62107), (911, 62110), (922, 62155), (923, 62158), (938, 62212), (942, 62227),

Gene: StarStruck_61 Start: 48867, Stop: 45550, Start Num: 72

Candidate Starts for StarStruck_61:

(Start: 72 @48867 has 72 MA's), (80, 48810), (Start: 89 @48771 has 8 MA's), (124, 48618), (127, 48609), (160, 48486), (204, 48327), (206, 48321), (212, 48297), (234, 48189), (261, 48078), (311, 47952), (356, 47781), (365, 47739), (370, 47700), (376, 47661), (378, 47646), (399, 47508), (428, 47376), (460, 47310), (475, 47253), (491, 47193), (502, 47142), (530, 47073), (543, 47028), (593, 46785), (602, 46743), (603, 46740), (605, 46734), (610, 46716), (634, 46620), (648, 46566), (692, 46413), (708, 46362), (711, 46353), (759, 46209), (791, 46131), (795, 46116), (817, 46056), (824, 46035), (831, 46014), (846, 45966), (875, 45882), (878, 45870), (879, 45867), (905, 45774), (962, 45591), (971, 45561),

Gene: Starbow_80 Start: 58419, Stop: 61739, Start Num: 67

Candidate Starts for Starbow_80:

(Start: 67 @58419 has 30 MA's), (79, 58470), (84, 58491), (Start: 89 @58515 has 8 MA's), (103, 58596), (157, 58794), (214, 58974), (226, 59022), (235, 59079), (236, 59082), (245, 59130), (249, 59148), (251, 59157), (262, 59193), (295, 59301), (298, 59310), (358, 59520), (371, 59589), (395, 59754), (411, 59832), (469, 59994), (499, 60117), (521, 60201), (543, 60264), (548, 60273), (592, 60477), (603, 60531), (606, 60540), (610, 60558), (612, 60564), (664, 60747), (666, 60756), (672, 60780), (675, 60807), (706, 60915), (760, 61104), (790, 61182), (806, 61224), (809, 61242), (822, 61284), (834, 61323), (835, 61329), (845, 61356), (855, 61395), (870, 61443), (873, 61452), (895, 61524), (899, 61545), (907, 61572), (911, 61575), (914, 61590), (923, 61623), (942, 61692),

Gene: StephanieG_205 Start: 113649, Stop: 117044, Start Num: 66

Candidate Starts for StephanieG_205:

(10, 113481), (Start: 23 @113556 has 44 MA's), (Start: 25 @113562 has 6 MA's), (Start: 32 @113574 has 9 MA's), (38, 113583), (Start: 66 @113649 has 166 MA's), (83, 113724), (104, 113838), (112, 113862), (133, 113922), (162, 114033), (170, 114072), (177, 114096), (185, 114138), (211, 114237), (221, 114279), (222, 114285), (227, 114297), (237, 114360), (251, 114420), (252, 114423), (259, 114450), (272, 114492), (Start: 292 @114555 has 9 MA's), (351, 114711), (356, 114729), (359, 114744), (373, 114861), (379, 114900), (395, 115020), (403, 115062), (413, 115107), (415, 115116), (428, 115167), (441, 115209), (461, 115275), (464, 115284), (465, 115287), (467, 115293), (468, 115296), (469, 115305), (471, 115311), (474, 115326), (499, 115413), (530, 115518), (541, 115572), (556, 115659), (562, 115689), (572, 115719), (579, 115752), (581, 115761), (592, 115833), (596,

115863), (622, 115980), (632, 116025), (643, 116067), (680, 116211), (702, 116271), (738, 116373), (770, 116460), (772, 116463), (779, 116481), (791, 116517), (792, 116520), (813, 116580), (818, 116598), (851, 116694), (858, 116724), (864, 116742), (876, 116772), (911, 116865), (914, 116880), (939, 116961), (940, 116967), (944, 116979),

Gene: Stickynote_45 Start: 42219, Stop: 38926, Start Num: 72

Candidate Starts for Stickynote_45:

(Start: 72 @42219 has 72 MA's), (80, 42162), (86, 42138), (Start: 89 @42123 has 8 MA's), (90, 42114), (127, 41967), (191, 41685), (195, 41661), (204, 41607), (323, 41193), (347, 41091), (376, 40938), (378, 40923), (391, 40827), (444, 40608), (445, 40605), (455, 40590), (468, 40560), (474, 40530), (502, 40413), (508, 40380), (525, 40353), (534, 40329), (571, 40182), (582, 40128), (585, 40107), (601, 40032), (603, 40014), (648, 39837), (661, 39807), (667, 39780), (671, 39765), (719, 39636), (746, 39603), (786, 39516), (829, 39402), (831, 39396), (834, 39384), (885, 39234), (886, 39231), (888, 39225), (893, 39207), (895, 39198), (898, 39180), (929, 39078), (935, 39054), (946, 39018), (948, 39012),

Gene: Stigma_60 Start: 49866, Stop: 53156, Start Num: 68

Candidate Starts for Stigma_60:

(55, 49848), (Start: 68 @49866 has 63 MA's), (75, 49887), (79, 49917), (84, 49938), (88, 49956), (Start: 89 @49962 has 8 MA's), (129, 50130), (140, 50172), (157, 50241), (172, 50301), (210, 50415), (214, 50421), (235, 50526), (249, 50589), (250, 50595), (262, 50634), (328, 50823), (342, 50880), (346, 50907), (357, 50952), (407, 51258), (416, 51294), (460, 51378), (471, 51417), (497, 51522), (499, 51534), (502, 51558), (504, 51567), (512, 51597), (514, 51600), (521, 51618), (548, 51690), (562, 51756), (564, 51762), (580, 51825), (592, 51897), (603, 51951), (606, 51960), (610, 51978), (612, 51984), (643, 52098), (663, 52164), (666, 52176), (678, 52236), (679, 52239), (698, 52296), (700, 52302), (704, 52314), (714, 52350), (737, 52419), (788, 52587), (799, 52617), (809, 52650), (820, 52686), (822, 52692), (826, 52704), (855, 52803), (857, 52812), (864, 52833), (874, 52863), (892, 52920), (911, 52983), (925, 53034), (928, 53046),

Gene: Stormageddon_76 Start: 71389, Stop: 74583, Start Num: 70

Candidate Starts for Stormageddon_76:

(57, 71377), (Start: 70 @71389 has 4 MA's), (83, 71461), (94, 71533), (99, 71551), (106, 71584), (134, 71662), (156, 71749), (161, 71764), (173, 71818), (184, 71866), (193, 71905), (213, 71977), (214, 71980), (217, 71995), (226, 72028), (235, 72085), (237, 72094), (251, 72148), (252, 72151), (259, 72178), (277, 72235), (Start: 292 @72280 has 9 MA's), (314, 72313), (326, 72346), (344, 72400), (349, 72424), (356, 72454), (359, 72469), (365, 72496), (373, 72550), (384, 72646), (409, 72775), (410, 72781), (441, 72871), (451, 72907), (457, 72925), (464, 72946), (467, 72955), (558, 73282), (582, 73375), (590, 73435), (603, 73492), (605, 73498), (607, 73507), (617, 73552), (618, 73555), (630, 73603), (663, 73729), (679, 73804), (684, 73825), (696, 73852), (700, 73861), (702, 73867), (703, 73870), (713, 73906), (728, 73936), (750, 74014), (751, 74017), (769, 74053), (770, 74056), (785, 74092), (845, 74194), (852, 74218), (864, 74263), (872, 74281), (887, 74323), (911, 74386), (924, 74434), (931, 74464), (960, 74548),

Gene: Stormer_79 Start: 49993, Stop: 53334, Start Num: 69

Candidate Starts for Stormer_79:

(Start: 69 @49993 has 20 MA's), (Start: 81 @50053 has 1 MA's), (Start: 89 @50089 has 8 MA's), (94, 50134), (104, 50176), (173, 50437), (213, 50572), (233, 50668), (304, 50938), (Start: 307 @50947 has 8 MA's), (338, 51055), (346, 51100), (356, 51142), (370, 51220), (378, 51274), (379, 51277), (380, 51307), (395, 51397), (405, 51451), (430, 51550), (435, 51565), (455, 51607), (502, 51781), (508, 51814), (521, 51832), (530, 51850), (543, 51895), (544, 51898), (571, 51994), (580, 52036), (582, 52048), (587, 52084), (629, 52264), (640, 52306), (648, 52342), (663, 52384), (666, 52396), (671, 52414), (692, 52510), (695, 52522), (795, 52717), (829, 52801), (862, 52906), (867, 52921), (873, 52936), (879, 52957), (882, 52969), (884, 52975), (885, 52978), (893, 53005), (903, 53050), (935,

53158), (950, 53203), (958, 53227), (969, 53263),

Gene: Stubby_193 Start: 112491, Stop: 115886, Start Num: 66

Candidate Starts for Stubby_193:

(Start: 23 @112398 has 44 MA's), (Start: 25 @112404 has 6 MA's), (Start: 32 @112416 has 9 MA's), (38, 112425), (Start: 66 @112491 has 166 MA's), (83, 112566), (104, 112680), (112, 112704), (133, 112764), (162, 112875), (170, 112914), (177, 112938), (185, 112980), (211, 113079), (221, 113121), (222, 113127), (227, 113139), (237, 113202), (251, 113262), (252, 113265), (259, 113292), (272, 113334), (Start: 292 @113397 has 9 MA's), (344, 113517), (351, 113553), (356, 113571), (359, 113586), (373, 113703), (379, 113742), (395, 113862), (403, 113904), (413, 113949), (415, 113958), (428, 114009), (441, 114051), (461, 114117), (464, 114126), (465, 114129), (467, 114135), (468, 114138), (469, 114147), (471, 114153), (474, 114168), (499, 114255), (530, 114360), (541, 114414), (556, 114501), (562, 114531), (572, 114561), (579, 114594), (581, 114603), (592, 114675), (596, 114705), (622, 114822), (632, 114867), (643, 114909), (680, 115053), (702, 115113), (738, 115215), (770, 115302), (772, 115305), (779, 115323), (791, 115359), (792, 115362), (813, 115422), (818, 115440), (851, 115536), (858, 115566), (864, 115584), (876, 115614), (911, 115707), (914, 115722), (939, 115803), (940, 115809), (944, 115821),

Gene: StubbySaigey_214 Start: 113170, Stop: 116565, Start Num: 66

Candidate Starts for StubbySaigey_214:

(Start: 23 @113077 has 44 MA's), (Start: 25 @113083 has 6 MA's), (Start: 32 @113095 has 9 MA's), (38, 113104), (Start: 66 @113170 has 166 MA's), (83, 113245), (104, 113359), (112, 113383), (133, 113443), (162, 113554), (170, 113593), (177, 113617), (185, 113659), (211, 113758), (221, 113800), (222, 113806), (227, 113818), (237, 113881), (251, 113941), (252, 113944), (259, 113971), (272, 114013), (Start: 292 @114076 has 9 MA's), (344, 114196), (351, 114232), (356, 114250), (359, 114265), (373, 114382), (379, 114421), (395, 114541), (403, 114583), (413, 114628), (415, 114637), (428, 114688), (441, 114730), (461, 114796), (464, 114805), (465, 114808), (467, 114814), (468, 114817), (469, 114826), (471, 114832), (474, 114847), (499, 114934), (530, 115039), (541, 115093), (556, 115180), (562, 115210), (572, 115240), (579, 115273), (581, 115282), (592, 115354), (596, 115384), (622, 115501), (632, 115546), (643, 115588), (680, 115732), (702, 115792), (738, 115894), (770, 115981), (772, 115984), (779, 116002), (791, 116038), (792, 116041), (813, 116101), (818, 116119), (851, 116215), (858, 116245), (864, 116263), (876, 116293), (911, 116386), (914, 116401), (939, 116482), (940, 116488), (944, 116500),

Gene: Sujidade_55 Start: 42046, Stop: 38570, Start Num: 66

Candidate Starts for Sujidade_55:

(Start: 32 @42115 has 9 MA's), (Start: 66 @42046 has 166 MA's), (Start: 81 @41986 has 1 MA's), (83, 41977), (91, 41935), (108, 41842), (126, 41773), (143, 41704), (156, 41650), (174, 41578), (182, 41542), (198, 41482), (226, 41404), (255, 41257), (270, 41218), (277, 41191), (282, 41173), (Start: 290 @41152 has 6 MA's), (295, 41137), (347, 41017), (350, 41005), (380, 40819), (381, 40813), (388, 40768), (404, 40684), (407, 40666), (422, 40609), (423, 40606), (426, 40594), (469, 40456), (471, 40450), (474, 40435), (476, 40429), (482, 40396), (504, 40318), (514, 40285), (558, 40144), (580, 40063), (581, 40057), (592, 39988), (602, 39925), (608, 39904), (618, 39859), (630, 39820), (645, 39763), (647, 39754), (675, 39646), (681, 39625), (684, 39604), (697, 39574), (706, 39547), (731, 39481), (733, 39472), (737, 39460), (765, 39373), (776, 39349), (833, 39157), (857, 39073), (866, 39046), (905, 38908), (908, 38899), (914, 38872), (928, 38824), (929, 38818), (934, 38797), (936, 38791), (968, 38686), (978, 38647), (979, 38641), (985, 38584),

Gene: Sukkupi_60 Start: 47229, Stop: 43978, Start Num: 72

Candidate Starts for Sukkupi_60:

(16, 47361), (22, 47331), (27, 47319), (Start: 72 @47229 has 72 MA's), (86, 47148), (Start: 89 @47133 has 8 MA's), (94, 47088), (124, 46980), (127, 46971), (169, 46806), (206, 46683), (218, 46632), (226, 46605), (234, 46551), (240, 46521), (311, 46314), (343, 46206), (359, 46128), (365, 46101), (376,

46023), (378, 46008), (399, 45870), (460, 45672), (462, 45666), (469, 45639), (502, 45504), (508, 45471), (530, 45435), (543, 45390), (548, 45378), (561, 45315), (593, 45150), (594, 45147), (602, 45108), (603, 45105), (605, 45099), (607, 45090), (610, 45081), (634, 44985), (640, 44967), (648, 44931), (691, 44781), (708, 44727), (759, 44631), (795, 44547), (799, 44538), (817, 44487), (846, 44397), (878, 44301), (879, 44298), (895, 44247), (930, 44115), (971, 43992),

Gene: SunsetPointe_52 Start: 40347, Stop: 36868, Start Num: 66

Candidate Starts for SunsetPointe_52:

(Start: 66 @40347 has 166 MA's), (83, 40275), (Start: 89 @40248 has 8 MA's), (91, 40233), (126, 40071), (132, 40044), (134, 40038), (156, 39948), (161, 39933), (173, 39879), (174, 39876), (198, 39780), (226, 39702), (255, 39555), (270, 39516), (282, 39471), (Start: 290 @39450 has 6 MA's), (295, 39435), (321, 39393), (326, 39381), (347, 39315), (350, 39303), (365, 39240), (381, 39111), (382, 39102), (388, 39066), (404, 38982), (407, 38964), (422, 38907), (423, 38904), (426, 38892), (469, 38754), (471, 38748), (474, 38733), (476, 38727), (482, 38694), (504, 38616), (514, 38583), (558, 38442), (576, 38385), (580, 38361), (581, 38355), (592, 38286), (602, 38223), (618, 38157), (623, 38136), (630, 38118), (645, 38061), (647, 38052), (675, 37944), (678, 37935), (681, 37923), (684, 37902), (697, 37872), (706, 37845), (731, 37779), (733, 37770), (737, 37758), (765, 37671), (776, 37647), (792, 37599), (833, 37455), (855, 37380), (905, 37206), (914, 37170), (928, 37122), (936, 37089),

Gene: SuperSulley_61 Start: 49019, Stop: 45717, Start Num: 72

Candidate Starts for SuperSulley_61:

(33, 49094), (Start: 72 @49019 has 72 MA's), (Start: 89 @48923 has 8 MA's), (124, 48770), (127, 48761), (160, 48638), (204, 48479), (206, 48473), (212, 48449), (234, 48341), (261, 48230), (311, 48104), (356, 47933), (365, 47891), (376, 47813), (378, 47798), (399, 47660), (428, 47528), (460, 47462), (475, 47405), (491, 47345), (502, 47294), (512, 47255), (530, 47225), (543, 47180), (593, 46937), (602, 46895), (603, 46892), (605, 46886), (610, 46868), (634, 46772), (648, 46718), (692, 46565), (711, 46505), (722, 46490), (759, 46361), (795, 46283), (817, 46223), (824, 46202), (825, 46199), (831, 46181), (855, 46097), (878, 46037), (888, 46010), (962, 45758), (971, 45728),

Gene: Sushi23_79 Start: 59255, Stop: 62539, Start Num: 68

Candidate Starts for Sushi23_79:

(Start: 68 @59255 has 63 MA's), (78, 59300), (84, 59330), (88, 59348), (Start: 89 @59354 has 8 MA's), (157, 59633), (182, 59735), (214, 59813), (235, 59918), (249, 59981), (250, 59987), (262, 60026), (298, 60143), (330, 60227), (358, 60353), (367, 60383), (371, 60422), (372, 60431), (403, 60629), (471, 60809), (497, 60914), (498, 60920), (499, 60926), (521, 61010), (534, 61040), (548, 61082), (554, 61109), (560, 61142), (564, 61154), (580, 61217), (592, 61289), (603, 61343), (606, 61352), (608, 61361), (610, 61370), (612, 61376), (675, 61619), (698, 61688), (702, 61700), (735, 61805), (795, 62000), (807, 62033), (822, 62084), (835, 62129), (855, 62195), (870, 62243), (881, 62279), (895, 62324), (896, 62333), (911, 62375), (922, 62420), (923, 62423), (928, 62438),

Gene: Suzy_65 Start: 48746, Stop: 51181, Start Num: 307

Candidate Starts for Suzy_65:

(Start: 307 @48746 has 8 MA's), (312, 48764), (357, 48944), (376, 49058), (378, 49073), (435, 49364), (453, 49403), (469, 49445), (471, 49451), (508, 49619), (512, 49625), (526, 49646), (530, 49655), (577, 49823), (582, 49853), (584, 49868), (592, 49916), (601, 49952), (606, 49979), (612, 50003), (625, 50060), (632, 50084), (643, 50123), (663, 50189), (666, 50201), (671, 50219), (691, 50312), (695, 50327), (707, 50363), (731, 50423), (743, 50465), (831, 50657), (832, 50660), (853, 50735), (855, 50741), (873, 50798), (881, 50825), (884, 50837), (906, 50921), (935, 51020), (943, 51044), (948, 51059), (964, 51110), (967, 51122), (969, 51125), (975, 51140), (982, 51176),

Gene: TagePighter_56 Start: 42468, Stop: 38983, Start Num: 66

Candidate Starts for TagePighter_56:

(Start: 32 @42537 has 9 MA's), (Start: 66 @42468 has 166 MA's), (Start: 81 @42405 has 1 MA's), (83, 42396), (91, 42354), (108, 42261), (126, 42192), (143, 42123), (156, 42069), (174, 41997), (182, 41961), (198, 41901), (255, 41676), (270, 41637), (277, 41610), (282, 41592), (Start: 290 @41571 has 6 MA's), (295, 41556), (321, 41514), (347, 41436), (350, 41424), (380, 41238), (381, 41232), (388, 41187), (404, 41103), (407, 41085), (422, 41028), (423, 41025), (426, 41013), (469, 40875), (471, 40869), (474, 40854), (476, 40848), (482, 40815), (504, 40737), (514, 40704), (558, 40563), (580, 40482), (581, 40476), (592, 40407), (602, 40344), (608, 40323), (618, 40278), (645, 40182), (647, 40173), (649, 40167), (675, 40065), (678, 40056), (681, 40044), (684, 40023), (697, 39993), (706, 39966), (731, 39900), (733, 39891), (737, 39879), (765, 39792), (816, 39624), (833, 39576), (866, 39465), (869, 39459), (905, 39327), (908, 39318), (914, 39291), (936, 39210), (976, 39078), (978, 39066),

Gene: Tainan_210 Start: 113509, Stop: 116904, Start Num: 66

Candidate Starts for Tainan_210:

(Start: 23 @113416 has 44 MA's), (Start: 25 @113422 has 6 MA's), (Start: 32 @113434 has 9 MA's), (38, 113443), (Start: 66 @113509 has 166 MA's), (83, 113584), (104, 113698), (112, 113722), (133, 113782), (162, 113893), (170, 113932), (177, 113956), (185, 113998), (211, 114097), (221, 114139), (222, 114145), (227, 114157), (237, 114220), (251, 114280), (252, 114283), (259, 114310), (272, 114352), (Start: 292 @114415 has 9 MA's), (351, 114571), (356, 114589), (359, 114604), (373, 114721), (379, 114760), (395, 114880), (403, 114922), (413, 114967), (415, 114976), (428, 115027), (441, 115069), (461, 115135), (464, 115144), (465, 115147), (467, 115153), (468, 115156), (469, 115165), (471, 115171), (474, 115186), (499, 115273), (530, 115378), (541, 115432), (556, 115519), (562, 115549), (572, 115579), (579, 115612), (581, 115621), (592, 115693), (596, 115723), (622, 115840), (632, 115885), (643, 115927), (680, 116071), (702, 116131), (738, 116233), (770, 116320), (772, 116323), (779, 116341), (791, 116377), (792, 116380), (813, 116440), (818, 116458), (851, 116554), (858, 116584), (864, 116602), (876, 116632), (911, 116725), (914, 116740), (939, 116821), (940, 116827), (944, 116839),

Gene: Targaryen_80 Start: 59965, Stop: 63249, Start Num: 68

Candidate Starts for Targaryen_80:

(Start: 68 @59965 has 63 MA's), (78, 60010), (84, 60040), (88, 60058), (Start: 89 @60064 has 8 MA's), (100, 60130), (157, 60343), (214, 60523), (235, 60628), (249, 60691), (250, 60697), (262, 60736), (289, 60826), (298, 60853), (334, 60952), (358, 61063), (367, 61093), (368, 61096), (371, 61132), (411, 61375), (418, 61405), (471, 61519), (474, 61534), (497, 61624), (498, 61630), (499, 61636), (521, 61720), (543, 61783), (548, 61792), (564, 61864), (580, 61927), (592, 61999), (603, 62053), (606, 62062), (608, 62071), (610, 62080), (612, 62086), (675, 62329), (698, 62398), (735, 62515), (753, 62596), (757, 62605), (775, 62647), (795, 62710), (807, 62743), (822, 62794), (835, 62839), (855, 62905), (870, 62953), (895, 63034), (896, 63043), (911, 63085), (923, 63133), (928, 63148),

Gene: Teardrop_206 Start: 111683, Stop: 115078, Start Num: 66

Candidate Starts for Teardrop_206:

(Start: 23 @111590 has 44 MA's), (Start: 25 @111596 has 6 MA's), (Start: 32 @111608 has 9 MA's), (38, 111617), (Start: 66 @111683 has 166 MA's), (83, 111758), (104, 111872), (112, 111896), (133, 111956), (162, 112067), (170, 112106), (177, 112130), (185, 112172), (211, 112271), (221, 112313), (222, 112319), (227, 112331), (237, 112394), (251, 112454), (252, 112457), (259, 112484), (272, 112526), (Start: 292 @112589 has 9 MA's), (351, 112745), (356, 112763), (359, 112778), (373, 112895), (379, 112934), (395, 113054), (403, 113096), (413, 113141), (415, 113150), (428, 113201), (441, 113243), (461, 113309), (464, 113318), (465, 113321), (467, 113327), (468, 113330), (469, 113339), (471, 113345), (474, 113360), (499, 113447), (530, 113552), (541, 113606), (556, 113693), (562, 113723), (572, 113753), (579, 113786), (581, 113795), (592, 113867), (596, 113897), (622, 114014), (632, 114059), (643, 114101), (680, 114245), (702, 114305), (738, 114407), (770, 114494), (772, 114497), (779, 114515), (791, 114551), (792, 114554), (813, 114614), (818, 114632), (851, 114728), (858, 114758), (864, 114776), (876, 114806), (911, 114899), (914, 114914), (939, 114995),

(940, 115001), (944, 115013),

Gene: Tedro_57 Start: 40690, Stop: 42990, Start Num: 287

Candidate Starts for Tedro_57:

(Start: 287 @40690 has 29 MA's), (Start: 290 @40696 has 6 MA's), (324, 40771), (344, 40843), (348, 40864), (356, 40897), (358, 40909), (359, 40912), (361, 40930), (364, 40936), (375, 41005), (378, 41029), (381, 41068), (388, 41113), (391, 41125), (405, 41206), (435, 41320), (440, 41332), (471, 41407), (475, 41425), (493, 41503), (496, 41509), (498, 41518), (503, 41551), (508, 41581), (512, 41587), (526, 41608), (530, 41617), (538, 41647), (558, 41722), (560, 41731), (571, 41761), (572, 41767), (575, 41776), (592, 41878), (608, 41950), (614, 41974), (663, 42148), (666, 42160), (671, 42178), (687, 42256), (688, 42262), (692, 42271), (702, 42304), (729, 42376), (840, 42556), (850, 42586), (868, 42649), (892, 42721), (918, 42805), (929, 42844), (938, 42877), (953, 42922), (966, 42967), (969, 42973),

Gene: Terapin_67 Start: 47717, Stop: 50152, Start Num: 307

Candidate Starts for Terapin_67:

(Start: 307 @47717 has 8 MA's), (312, 47735), (357, 47915), (376, 48029), (378, 48044), (435, 48335), (471, 48422), (501, 48551), (508, 48590), (512, 48596), (526, 48617), (530, 48626), (582, 48824), (584, 48839), (585, 48845), (592, 48887), (606, 48950), (612, 48974), (625, 49031), (632, 49055), (643, 49094), (663, 49160), (666, 49172), (671, 49190), (691, 49283), (695, 49298), (707, 49334), (743, 49436), (831, 49628), (832, 49631), (853, 49706), (855, 49712), (873, 49769), (881, 49796), (884, 49808), (906, 49892), (916, 49922), (935, 49991), (943, 50015), (948, 50030), (964, 50081), (967, 50093), (969, 50096), (975, 50111), (982, 50147),

Gene: Teutsch_80 Start: 59518, Stop: 62802, Start Num: 68

Candidate Starts for Teutsch_80:

(Start: 68 @59518 has 63 MA's), (78, 59563), (84, 59593), (88, 59611), (Start: 89 @59617 has 8 MA's), (157, 59896), (182, 59998), (214, 60076), (235, 60181), (249, 60244), (250, 60250), (262, 60289), (298, 60406), (330, 60490), (358, 60616), (367, 60646), (371, 60685), (403, 60892), (471, 61072), (497, 61177), (498, 61183), (499, 61189), (502, 61213), (521, 61273), (534, 61303), (535, 61306), (548, 61345), (554, 61372), (564, 61417), (580, 61480), (592, 61552), (603, 61606), (606, 61615), (608, 61624), (610, 61633), (612, 61639), (675, 61882), (698, 61951), (702, 61963), (735, 62068), (795, 62263), (807, 62296), (822, 62347), (835, 62392), (855, 62458), (870, 62506), (895, 62587), (896, 62596), (911, 62638), (922, 62683), (923, 62686), (928, 62701),

Gene: Thoth_67 Start: 49791, Stop: 53093, Start Num: 26

Candidate Starts for Thoth_67:

(Start: 26 @49791 has 20 MA's), (Start: 61 @49878 has 1 MA's), (65, 49884), (Start: 72 @49893 has 72 MA's), (Start: 89 @49989 has 8 MA's), (127, 50145), (151, 50232), (152, 50235), (163, 50286), (233, 50550), (240, 50589), (258, 50661), (261, 50670), (283, 50745), (308, 50811), (309, 50817), (329, 50871), (338, 50889), (347, 50940), (348, 50943), (355, 50973), (371, 51057), (372, 51066), (376, 51093), (378, 51108), (405, 51285), (407, 51294), (435, 51399), (469, 51480), (482, 51540), (502, 51615), (508, 51648), (512, 51654), (526, 51675), (530, 51684), (543, 51729), (560, 51798), (565, 51813), (582, 51882), (592, 51945), (600, 51978), (601, 51981), (612, 52032), (631, 52107), (666, 52230), (671, 52248), (691, 52326), (692, 52329), (695, 52341), (710, 52386), (721, 52407), (724, 52419), (733, 52449), (740, 52470), (801, 52542), (829, 52599), (860, 52698), (882, 52764), (906, 52854), (916, 52884), (917, 52887), (927, 52917), (938, 52962), (951, 53004), (961, 53034), (964, 53046), (969, 53061), (971, 53070),

Gene: Thumb_78 Start: 55518, Stop: 58814, Start Num: 72

Candidate Starts for Thumb_78:

(Start: 50 @55491 has 1 MA's), (Start: 72 @55518 has 72 MA's), (84, 55590), (Start: 89 @55614 has 8 MA's), (92, 55647), (127, 55782), (153, 55875), (158, 55893), (169, 55941), (188, 56001), (233,

56193), (296, 56427), (325, 56484), (338, 56538), (346, 56583), (352, 56610), (359, 56640), (378, 56763), (381, 56802), (387, 56844), (401, 56922), (405, 56940), (410, 56958), (412, 56970), (433, 57045), (475, 57201), (496, 57285), (509, 57363), (518, 57384), (520, 57393), (523, 57399), (528, 57408), (550, 57480), (553, 57495), (560, 57534), (564, 57546), (585, 57639), (586, 57645), (594, 57693), (603, 57735), (643, 57885), (646, 57897), (671, 57981), (705, 58122), (742, 58227), (825, 58326), (828, 58335), (852, 58413), (863, 58452), (870, 58467), (885, 58515), (912, 58611), (917, 58629), (926, 58656), (939, 58704), (949, 58734), (950, 58737), (954, 58752), (964, 58782), (966, 58791), (969, 58797), (970, 58800),

Gene: Tillicus_73 Start: 51219, Stop: 54485, Start Num: 84

Candidate Starts for Tillicus_73:

(Start: 69 @51147 has 20 MA's), (Start: 81 @51207 has 1 MA's), (84, 51219), (Start: 89 @51243 has 8 MA's), (94, 51288), (104, 51330), (200, 51666), (226, 51777), (233, 51822), (259, 51945), (304, 52092), (Start: 307 @52101 has 8 MA's), (Start: 315 @52134 has 1 MA's), (328, 52170), (338, 52212), (346, 52257), (356, 52299), (378, 52431), (379, 52434), (380, 52464), (388, 52515), (393, 52536), (395, 52554), (407, 52617), (430, 52707), (435, 52722), (442, 52743), (497, 52902), (502, 52938), (508, 52971), (521, 52989), (543, 53052), (544, 53055), (559, 53118), (571, 53151), (580, 53193), (582, 53205), (587, 53241), (629, 53421), (635, 53448), (640, 53463), (648, 53499), (666, 53553), (671, 53571), (692, 53667), (695, 53679), (699, 53691), (832, 53967), (867, 54078), (879, 54114), (882, 54126), (884, 54132), (885, 54135), (893, 54162), (903, 54207), (935, 54315), (948, 54354), (950, 54360), (958, 54384), (969, 54420),

Gene: TinyMiny_63 Start: 42556, Stop: 44817, Start Num: 290

Candidate Starts for TinyMiny_63:

(244, 42403), (246, 42406), (263, 42469), (276, 42511), (279, 42520), (Start: 285 @42547 has 3 MA's), (Start: 290 @42556 has 6 MA's), (348, 42697), (356, 42730), (359, 42745), (376, 42847), (378, 42862), (391, 42958), (405, 43039), (407, 43048), (419, 43096), (435, 43153), (471, 43240), (475, 43258), (487, 43309), (489, 43321), (493, 43336), (498, 43351), (503, 43384), (508, 43414), (512, 43420), (526, 43441), (530, 43450), (538, 43480), (559, 43561), (564, 43576), (571, 43594), (590, 43708), (648, 43939), (666, 43993), (671, 44011), (673, 44023), (688, 44095), (692, 44104), (801, 44293), (802, 44296), (817, 44314), (828, 44347), (842, 44392), (860, 44455), (868, 44479), (879, 44509), (904, 44599), (929, 44671), (938, 44704), (953, 44749), (964, 44785), (966, 44794), (969, 44800),

Gene: TinyTim_207 Start: 112464, Stop: 115859, Start Num: 66

Candidate Starts for TinyTim_207:

(Start: 23 @112371 has 44 MA's), (Start: 25 @112377 has 6 MA's), (Start: 32 @112389 has 9 MA's), (38, 112398), (Start: 66 @112464 has 166 MA's), (83, 112539), (104, 112653), (112, 112677), (133, 112737), (162, 112848), (170, 112887), (177, 112911), (185, 112953), (211, 113052), (221, 113094), (222, 113100), (227, 113112), (237, 113175), (251, 113235), (252, 113238), (259, 113265), (272, 113307), (Start: 292 @113370 has 9 MA's), (351, 113526), (356, 113544), (359, 113559), (373, 113676), (379, 113715), (395, 113835), (403, 113877), (413, 113922), (415, 113931), (428, 113982), (441, 114024), (461, 114090), (464, 114099), (465, 114102), (467, 114108), (468, 114111), (469, 114120), (471, 114126), (474, 114141), (499, 114228), (530, 114333), (541, 114387), (556, 114474), (562, 114504), (572, 114534), (579, 114567), (581, 114576), (592, 114648), (596, 114678), (622, 114795), (632, 114840), (643, 114882), (680, 115026), (702, 115086), (738, 115188), (770, 115275), (772, 115278), (779, 115296), (791, 115332), (792, 115335), (813, 115395), (818, 115413), (851, 115509), (858, 115539), (864, 115557), (876, 115587), (911, 115680), (914, 115695), (939, 115776), (940, 115782), (944, 115794),

Gene: TomSawyer_80 Start: 58037, Stop: 61357, Start Num: 67

Candidate Starts for TomSawyer_80:

(Start: 67 @58037 has 30 MA's), (79, 58088), (84, 58109), (Start: 89 @58133 has 8 MA's), (103, 58214), (157, 58412), (204, 58568), (214, 58592), (226, 58640), (227, 58643), (235, 58697), (245,

58748), (249, 58766), (251, 58775), (262, 58811), (298, 58928), (328, 59000), (358, 59138), (371, 59207), (395, 59372), (411, 59450), (469, 59612), (499, 59735), (521, 59819), (538, 59867), (548, 59891), (592, 60095), (603, 60149), (606, 60158), (610, 60176), (612, 60182), (666, 60374), (672, 60398), (675, 60425), (706, 60533), (760, 60722), (790, 60800), (806, 60842), (809, 60860), (822, 60902), (834, 60941), (835, 60947), (845, 60974), (855, 61013), (870, 61061), (873, 61070), (895, 61142), (899, 61163), (907, 61190), (911, 61193), (914, 61208), (923, 61241), (942, 61310),

Gene: Toma_55 Start: 41781, Stop: 38299, Start Num: 66

Candidate Starts for Toma_55:

(Start: 66 @41781 has 166 MA's), (73, 41766), (74, 41760), (Start: 81 @41715 has 1 MA's), (83, 41706), (91, 41664), (108, 41571), (126, 41502), (143, 41433), (156, 41379), (174, 41307), (182, 41271), (198, 41211), (226, 41133), (255, 40986), (270, 40947), (277, 40920), (282, 40902), (Start: 290 @40881 has 6 MA's), (295, 40866), (347, 40746), (350, 40734), (380, 40548), (381, 40542), (388, 40497), (404, 40413), (407, 40395), (422, 40338), (423, 40335), (426, 40323), (469, 40185), (471, 40179), (474, 40164), (476, 40158), (482, 40125), (504, 40047), (514, 40014), (558, 39873), (580, 39792), (581, 39786), (592, 39717), (602, 39654), (608, 39633), (618, 39588), (630, 39549), (645, 39492), (647, 39483), (675, 39375), (681, 39354), (684, 39333), (697, 39303), (706, 39276), (731, 39210), (733, 39201), (737, 39189), (765, 39102), (776, 39078), (816, 38934), (833, 38886), (857, 38802), (866, 38775), (905, 38637), (908, 38628), (914, 38601), (928, 38553), (929, 38547), (934, 38526), (936, 38520), (968, 38415), (976, 38388), (978, 38376), (985, 38313),

Gene: Tomas_84 Start: 60777, Stop: 64097, Start Num: 67

Candidate Starts for Tomas_84:

(Start: 67 @60777 has 30 MA's), (79, 60828), (84, 60849), (Start: 89 @60873 has 8 MA's), (157, 61152), (182, 61254), (204, 61308), (210, 61326), (214, 61332), (226, 61380), (235, 61437), (245, 61488), (249, 61506), (262, 61551), (295, 61659), (298, 61668), (358, 61878), (469, 62352), (499, 62475), (521, 62559), (543, 62622), (548, 62631), (592, 62835), (601, 62871), (603, 62889), (606, 62898), (610, 62916), (612, 62922), (632, 63003), (643, 63036), (666, 63114), (675, 63165), (706, 63273), (747, 63417), (748, 63420), (751, 63438), (755, 63450), (760, 63462), (790, 63540), (804, 63579), (806, 63582), (809, 63600), (822, 63642), (834, 63681), (835, 63687), (855, 63753), (870, 63801), (873, 63810), (895, 63882), (907, 63930), (911, 63933), (920, 63972), (942, 64050),

Gene: Tonenili_231 Start: 119300, Stop: 122701, Start Num: 68

Candidate Starts for Tonenili_231:

(39, 119243), (Start: 68 @119300 has 63 MA's), (83, 119375), (112, 119513), (133, 119573), (170, 119723), (177, 119747), (194, 119828), (211, 119888), (221, 119930), (222, 119936), (226, 119945), (227, 119948), (237, 120011), (251, 120071), (252, 120074), (259, 120101), (264, 120116), (269, 120128), (272, 120143), (Start: 292 @120206 has 9 MA's), (351, 120362), (356, 120380), (357, 120383), (359, 120395), (373, 120512), (379, 120551), (395, 120671), (403, 120713), (413, 120758), (415, 120767), (428, 120818), (441, 120860), (461, 120926), (464, 120935), (465, 120938), (467, 120944), (468, 120947), (471, 120962), (499, 121064), (556, 121316), (562, 121346), (572, 121376), (581, 121418), (592, 121490), (596, 121520), (600, 121538), (622, 121637), (632, 121682), (643, 121724), (680, 121868), (681, 121871), (692, 121898), (702, 121928), (738, 122030), (770, 122117), (779, 122138), (791, 122174), (792, 122177), (810, 122222), (813, 122237), (818, 122255), (851, 122351), (858, 122381), (864, 122399), (869, 122411), (876, 122429), (911, 122522), (914, 122537), (940, 122624), (944, 122636), (957, 122675),

Gene: Toneprano_95 Start: 70005, Stop: 72818, Start Num: 54

Candidate Starts for Toneprano_95:

(Start: 46 @69990 has 1 MA's), (Start: 51 @70002 has 2 MA's), (Start: 54 @70005 has 8 MA's), (83, 70098), (92, 70158), (131, 70308), (132, 70311), (134, 70317), (145, 70359), (158, 70416), (163, 70446), (164, 70449), (180, 70512), (185, 70533), (186, 70536), (193, 70563), (222, 70680), (226, 70689), (235, 70746), (237, 70755), (273, 70887), (347, 71052), (351, 71070), (355, 71085), (357,

71091), (359, 71103), (367, 71130), (368, 71133), (375, 71193), (376, 71202), (377, 71205), (379, 71217), (382, 71262), (394, 71331), (397, 71355), (432, 71511), (438, 71529), (443, 71553), (448, 71571), (475, 71667), (483, 71709), (487, 71715), (499, 71751), (500, 71760), (503, 71778), (504, 71784), (508, 71808), (512, 71814), (514, 71817), (521, 71835), (522, 71838), (554, 71931), (564, 71976), (566, 71982), (574, 72006), (575, 72009), (577, 72018), (578, 72024), (580, 72036), (600, 72153), (602, 72171), (603, 72174), (606, 72183), (635, 72297), (639, 72312), (675, 72459), (679, 72471), (681, 72477), (692, 72510), (703, 72543), (708, 72561), (712, 72573), (714, 72582), (750, 72696), (754, 72708), (762, 72723), (787, 72798), (791, 72807),

Gene: Tongui_58 Start: 40964, Stop: 43264, Start Num: 287

Candidate Starts for Tongui_58:

(257, 40865), (260, 40874), (266, 40895), (Start: 287 @40964 has 29 MA's), (291, 40970), (324, 41045), (348, 41138), (356, 41171), (358, 41183), (359, 41186), (361, 41204), (375, 41279), (378, 41303), (381, 41342), (391, 41399), (405, 41480), (435, 41594), (440, 41606), (475, 41699), (490, 41765), (493, 41777), (496, 41783), (498, 41792), (503, 41825), (508, 41855), (512, 41861), (526, 41882), (530, 41891), (538, 41921), (558, 41996), (560, 42005), (571, 42035), (608, 42224), (614, 42248), (663, 42422), (666, 42434), (671, 42452), (672, 42458), (688, 42536), (692, 42545), (702, 42578), (721, 42623), (729, 42650), (742, 42692), (840, 42830), (850, 42860), (857, 42893), (868, 42923), (885, 42971), (892, 42995), (929, 43118), (938, 43151), (953, 43196), (966, 43241), (969, 43247),

Gene: Tortoise16_207 Start: 112926, Stop: 116321, Start Num: 66

Candidate Starts for Tortoise16_207:

(Start: 23 @112833 has 44 MA's), (Start: 25 @112839 has 6 MA's), (Start: 32 @112851 has 9 MA's), (38, 112860), (Start: 66 @112926 has 166 MA's), (83, 113001), (104, 113115), (112, 113139), (133, 113199), (162, 113310), (170, 113349), (177, 113373), (185, 113415), (211, 113514), (221, 113556), (222, 113562), (227, 113574), (237, 113637), (251, 113697), (252, 113700), (259, 113727), (272, 113769), (Start: 292 @113832 has 9 MA's), (351, 113988), (356, 114006), (359, 114021), (373, 114138), (379, 114177), (395, 114297), (403, 114339), (413, 114384), (415, 114393), (428, 114444), (441, 114486), (461, 114552), (464, 114561), (465, 114564), (467, 114570), (468, 114573), (469, 114582), (471, 114588), (474, 114603), (499, 114690), (530, 114795), (541, 114849), (556, 114936), (562, 114966), (572, 114996), (579, 115029), (581, 115038), (592, 115110), (596, 115140), (622, 115257), (632, 115302), (643, 115344), (680, 115488), (702, 115548), (738, 115650), (770, 115737), (772, 115740), (779, 115758), (791, 115794), (792, 115797), (813, 115857), (818, 115875), (851, 115971), (858, 116001), (864, 116019), (876, 116049), (911, 116142), (914, 116157), (939, 116238), (940, 116244), (944, 116256),

Gene: Tracker_60 Start: 47900, Stop: 44589, Start Num: 72

Candidate Starts for Tracker_60:

(Start: 72 @47900 has 72 MA's), (84, 47828), (Start: 89 @47804 has 8 MA's), (124, 47651), (127, 47642), (204, 47360), (206, 47354), (212, 47330), (234, 47222), (240, 47192), (311, 46985), (356, 46814), (365, 46772), (368, 46766), (376, 46694), (378, 46679), (399, 46541), (460, 46343), (475, 46286), (491, 46226), (502, 46175), (530, 46106), (543, 46061), (593, 45821), (603, 45776), (605, 45770), (610, 45752), (634, 45656), (648, 45602), (688, 45458), (692, 45449), (722, 45374), (744, 45299), (759, 45245), (795, 45155), (824, 45074), (831, 45053), (878, 44909), (879, 44906), (902, 44822), (930, 44723), (951, 44666), (971, 44600),

Gene: Tribute_78 Start: 58724, Stop: 62008, Start Num: 68

Candidate Starts for Tribute_78:

(Start: 68 @58724 has 63 MA's), (78, 58769), (84, 58799), (88, 58817), (Start: 89 @58823 has 8 MA's), (157, 59102), (182, 59204), (214, 59282), (235, 59387), (249, 59450), (250, 59456), (262, 59495), (298, 59612), (330, 59696), (358, 59822), (367, 59852), (371, 59891), (403, 60098), (471, 60278), (497, 60383), (498, 60389), (499, 60395), (521, 60479), (534, 60509), (548, 60551), (554, 60578),

(560, 60611), (564, 60623), (580, 60686), (592, 60758), (603, 60812), (606, 60821), (608, 60830), (610, 60839), (612, 60845), (675, 61088), (698, 61157), (702, 61169), (735, 61274), (795, 61469), (807, 61502), (822, 61553), (835, 61598), (855, 61664), (870, 61712), (895, 61793), (896, 61802), (911, 61844), (922, 61889), (923, 61892), (928, 61907),

Gene: Trinitium_205 Start: 112211, Stop: 115606, Start Num: 66

Candidate Starts for Trinitium_205:

(Start: 23 @112118 has 44 MA's), (Start: 25 @112124 has 6 MA's), (Start: 32 @112136 has 9 MA's), (38, 112145), (Start: 66 @112211 has 166 MA's), (83, 112286), (104, 112400), (112, 112424), (133, 112484), (162, 112595), (170, 112634), (177, 112658), (185, 112700), (211, 112799), (221, 112841), (222, 112847), (227, 112859), (237, 112922), (251, 112982), (252, 112985), (259, 113012), (272, 113054), (Start: 292 @113117 has 9 MA's), (344, 113237), (351, 113273), (356, 113291), (359, 113306), (373, 113423), (379, 113462), (395, 113582), (403, 113624), (413, 113669), (415, 113678), (428, 113729), (441, 113771), (461, 113837), (464, 113846), (465, 113849), (467, 113855), (468, 113858), (469, 113867), (471, 113873), (474, 113888), (499, 113975), (530, 114080), (541, 114134), (556, 114221), (562, 114251), (572, 114281), (579, 114314), (581, 114323), (592, 114395), (596, 114425), (622, 114542), (632, 114587), (643, 114629), (680, 114773), (702, 114833), (738, 114935), (770, 115022), (772, 115025), (779, 115043), (791, 115079), (792, 115082), (813, 115142), (818, 115160), (851, 115256), (858, 115286), (864, 115304), (876, 115334), (911, 115427), (914, 115442), (939, 115523), (940, 115529), (944, 115541),

Gene: Triste_55 Start: 42467, Stop: 38982, Start Num: 66

Candidate Starts for Triste_55:

(Start: 32 @42536 has 9 MA's), (Start: 66 @42467 has 166 MA's), (Start: 81 @42404 has 1 MA's), (83, 42395), (91, 42353), (108, 42260), (126, 42191), (143, 42122), (156, 42068), (174, 41996), (182, 41960), (198, 41900), (255, 41675), (270, 41636), (277, 41609), (282, 41591), (Start: 290 @41570 has 6 MA's), (295, 41555), (321, 41513), (347, 41435), (350, 41423), (380, 41237), (381, 41231), (388, 41186), (404, 41102), (407, 41084), (422, 41027), (423, 41024), (426, 41012), (469, 40874), (471, 40868), (474, 40853), (476, 40847), (482, 40814), (504, 40736), (514, 40703), (558, 40562), (580, 40481), (581, 40475), (592, 40406), (602, 40343), (608, 40322), (618, 40277), (645, 40181), (647, 40172), (649, 40166), (675, 40064), (678, 40055), (681, 40043), (684, 40022), (697, 39992), (706, 39965), (731, 39899), (733, 39890), (737, 39878), (765, 39791), (816, 39623), (833, 39575), (866, 39464), (869, 39458), (905, 39326), (908, 39317), (914, 39290), (936, 39209), (976, 39077), (978, 39065),

Gene: Troll4_66 Start: 49859, Stop: 53161, Start Num: 26

Candidate Starts for Troll4_66:

(Start: 26 @49859 has 20 MA's), (Start: 61 @49946 has 1 MA's), (65, 49952), (Start: 72 @49961 has 72 MA's), (Start: 89 @50057 has 8 MA's), (127, 50213), (151, 50300), (152, 50303), (163, 50354), (233, 50618), (240, 50657), (258, 50729), (261, 50738), (283, 50813), (308, 50879), (309, 50885), (329, 50939), (338, 50957), (347, 51008), (348, 51011), (355, 51041), (371, 51125), (372, 51134), (376, 51161), (378, 51176), (405, 51353), (407, 51362), (435, 51467), (469, 51548), (482, 51608), (502, 51683), (508, 51716), (512, 51722), (526, 51743), (530, 51752), (543, 51797), (560, 51866), (565, 51881), (582, 51950), (592, 52013), (600, 52046), (601, 52049), (612, 52100), (631, 52175), (666, 52298), (671, 52316), (691, 52394), (692, 52397), (695, 52409), (710, 52454), (721, 52475), (724, 52487), (733, 52517), (740, 52538), (801, 52610), (829, 52667), (860, 52766), (882, 52832), (906, 52922), (916, 52952), (917, 52955), (927, 52985), (938, 53030), (951, 53072), (961, 53102), (964, 53114), (969, 53129), (971, 53138),

Gene: TuanPN_52 Start: 42420, Stop: 38935, Start Num: 66

Candidate Starts for TuanPN_52:

(Start: 32 @42489 has 9 MA's), (Start: 66 @42420 has 166 MA's), (Start: 81 @42357 has 1 MA's), (83, 42348), (91, 42306), (108, 42213), (126, 42144), (143, 42075), (156, 42021), (174, 41949), (182,

41913), (198, 41853), (255, 41628), (270, 41589), (277, 41562), (282, 41544), (Start: 290 @41523 has 6 MA's), (295, 41508), (321, 41466), (347, 41388), (350, 41376), (380, 41190), (381, 41184), (388, 41139), (404, 41055), (407, 41037), (422, 40980), (423, 40977), (426, 40965), (469, 40827), (471, 40821), (474, 40806), (476, 40800), (482, 40767), (504, 40689), (514, 40656), (558, 40515), (580, 40434), (581, 40428), (592, 40359), (602, 40296), (608, 40275), (618, 40230), (645, 40134), (647, 40125), (649, 40119), (675, 40017), (678, 40008), (681, 39996), (684, 39975), (697, 39945), (706, 39918), (731, 39852), (733, 39843), (737, 39831), (765, 39744), (816, 39576), (833, 39528), (866, 39417), (905, 39279), (908, 39270), (914, 39243), (928, 39195), (936, 39162), (944, 39135), (976, 39030), (978, 39018),

Gene: TunaTartare_59 Start: 50008, Stop: 53298, Start Num: 68

Candidate Starts for TunaTartare_59:

(Start: 68 @50008 has 63 MA's), (74, 50023), (75, 50029), (79, 50059), (84, 50080), (88, 50098), (Start: 89 @50104 has 8 MA's), (157, 50383), (172, 50443), (214, 50563), (235, 50668), (249, 50731), (250, 50737), (262, 50776), (338, 51007), (378, 51220), (398, 51355), (460, 51520), (471, 51559), (495, 51658), (497, 51664), (498, 51670), (499, 51676), (502, 51700), (504, 51709), (514, 51742), (538, 51808), (543, 51823), (548, 51832), (562, 51898), (564, 51904), (580, 51967), (588, 52018), (592, 52039), (603, 52093), (606, 52102), (610, 52120), (612, 52126), (646, 52252), (666, 52318), (678, 52378), (679, 52381), (698, 52438), (700, 52444), (704, 52456), (706, 52465), (737, 52561), (747, 52609), (753, 52636), (760, 52654), (799, 52759), (820, 52828), (822, 52834), (855, 52945), (857, 52954), (874, 53005), (881, 53029), (911, 53125), (912, 53134), (925, 53176), (928, 53188),

Gene: Turret_202 Start: 111793, Stop: 115188, Start Num: 66

Candidate Starts for Turret_202:

(Start: 23 @111700 has 44 MA's), (Start: 25 @111706 has 6 MA's), (Start: 32 @111718 has 9 MA's), (38, 111727), (Start: 66 @111793 has 166 MA's), (83, 111868), (104, 111982), (112, 112006), (133, 112066), (162, 112177), (170, 112216), (177, 112240), (185, 112282), (211, 112381), (221, 112423), (222, 112429), (227, 112441), (237, 112504), (251, 112564), (252, 112567), (259, 112594), (272, 112636), (Start: 292 @112699 has 9 MA's), (344, 112819), (351, 112855), (356, 112873), (359, 112888), (373, 113005), (379, 113044), (395, 113164), (403, 113206), (413, 113251), (415, 113260), (428, 113311), (441, 113353), (461, 113419), (464, 113428), (465, 113431), (467, 113437), (468, 113440), (469, 113449), (471, 113455), (474, 113470), (499, 113557), (530, 113662), (541, 113716), (556, 113803), (562, 113833), (572, 113863), (579, 113896), (581, 113905), (592, 113977), (596, 114007), (622, 114124), (632, 114169), (643, 114211), (680, 114355), (702, 114415), (738, 114517), (770, 114604), (772, 114607), (779, 114625), (791, 114661), (792, 114664), (813, 114724), (818, 114742), (851, 114838), (858, 114868), (864, 114886), (876, 114916), (911, 115009), (914, 115024), (939, 115105), (940, 115111), (944, 115123),

Gene: Turuncu_63 Start: 49020, Stop: 45739, Start Num: 72

Candidate Starts for Turuncu_63:

(30, 49104), (Start: 72 @49020 has 72 MA's), (86, 48939), (Start: 89 @48924 has 8 MA's), (94, 48879), (124, 48768), (127, 48759), (144, 48693), (160, 48636), (198, 48510), (206, 48471), (212, 48447), (218, 48420), (226, 48393), (234, 48339), (Start: 292 @48126 has 9 MA's), (311, 48102), (376, 47808), (378, 47793), (444, 47475), (460, 47451), (474, 47397), (475, 47394), (502, 47283), (530, 47214), (535, 47199), (543, 47169), (586, 46980), (593, 46932), (602, 46890), (603, 46887), (605, 46881), (610, 46863), (634, 46767), (640, 46749), (648, 46713), (692, 46548), (701, 46518), (711, 46488), (744, 46449), (759, 46395), (776, 46371), (795, 46308), (817, 46248), (831, 46206), (870, 46089), (878, 46062), (879, 46059), (888, 46035), (951, 45819), (962, 45783), (971, 45753),

Gene: Twin_92 Start: 70020, Stop: 72848, Start Num: 46

Candidate Starts for Twin_92:

(Start: 46 @70020 has 1 MA's), (Start: 51 @70032 has 2 MA's), (Start: 54 @70035 has 8 MA's), (83, 70128), (92, 70188), (131, 70338), (132, 70341), (134, 70347), (158, 70446), (163, 70476), (164,

70479), (180, 70542), (185, 70563), (186, 70566), (193, 70593), (222, 70710), (226, 70719), (235, 70776), (237, 70785), (253, 70851), (273, 70917), (347, 71082), (351, 71100), (355, 71115), (357, 71121), (359, 71133), (367, 71160), (368, 71163), (375, 71223), (376, 71232), (377, 71235), (379, 71247), (382, 71292), (394, 71361), (397, 71385), (432, 71541), (438, 71559), (443, 71583), (448, 71601), (475, 71697), (483, 71739), (487, 71745), (499, 71781), (500, 71790), (503, 71808), (504, 71814), (508, 71838), (512, 71844), (514, 71847), (521, 71865), (522, 71868), (554, 71961), (564, 72006), (566, 72012), (574, 72036), (575, 72039), (577, 72048), (578, 72054), (580, 72066), (600, 72183), (602, 72201), (603, 72204), (606, 72213), (635, 72327), (639, 72342), (675, 72489), (679, 72501), (681, 72507), (692, 72540), (703, 72573), (708, 72591), (712, 72603), (714, 72612), (750, 72726), (754, 72738), (762, 72753), (787, 72828), (791, 72837),

Gene: Tyke_207 Start: 114200, Stop: 117688, Start Num: 23

Candidate Starts for Tyke_207:

(Start: 23 @114200 has 44 MA's), (Start: 25 @114206 has 6 MA's), (Start: 32 @114218 has 9 MA's), (38, 114227), (Start: 66 @114293 has 166 MA's), (83, 114368), (104, 114482), (112, 114506), (133, 114566), (162, 114677), (170, 114716), (177, 114740), (185, 114782), (211, 114881), (221, 114923), (222, 114929), (227, 114941), (237, 115004), (251, 115064), (252, 115067), (259, 115094), (272, 115136), (Start: 292 @115199 has 9 MA's), (351, 115355), (356, 115373), (359, 115388), (373, 115505), (379, 115544), (395, 115664), (403, 115706), (413, 115751), (415, 115760), (428, 115811), (441, 115853), (461, 115919), (464, 115928), (465, 115931), (467, 115937), (468, 115940), (469, 115949), (471, 115955), (474, 115970), (499, 116057), (530, 116162), (541, 116216), (556, 116303), (562, 116333), (572, 116363), (579, 116396), (581, 116405), (592, 116477), (596, 116507), (622, 116624), (632, 116669), (643, 116711), (680, 116855), (702, 116915), (738, 117017), (770, 117104), (772, 117107), (779, 117125), (791, 117161), (792, 117164), (813, 117224), (818, 117242), (851, 117338), (858, 117368), (864, 117386), (876, 117416), (911, 117509), (914, 117524), (939, 117605), (940, 117611), (944, 117623),

Gene: UBSmoodge_101 Start: 73949, Stop: 76774, Start Num: 54

Candidate Starts for UBSmoodge_101:

(Start: 54 @73949 has 8 MA's), (83, 74039), (87, 74054), (92, 74099), (109, 74177), (131, 74249), (158, 74357), (163, 74387), (164, 74390), (165, 74393), (180, 74453), (185, 74474), (193, 74504), (222, 74621), (235, 74687), (237, 74696), (238, 74699), (273, 74828), (Start: 285 @74873 has 3 MA's), (Start: 290 @74882 has 6 MA's), (336, 74945), (347, 74993), (351, 75011), (355, 75026), (357, 75032), (359, 75044), (367, 75071), (368, 75074), (375, 75134), (376, 75143), (379, 75158), (386, 75236), (387, 75239), (394, 75272), (438, 75470), (443, 75494), (472, 75602), (473, 75605), (483, 75650), (499, 75692), (500, 75701), (504, 75725), (505, 75731), (512, 75755), (514, 75758), (521, 75776), (564, 75917), (566, 75923), (574, 75947), (575, 75950), (578, 75965), (580, 75977), (583, 75998), (591, 76067), (600, 76112), (602, 76130), (603, 76133), (606, 76142), (633, 76247), (635, 76256), (641, 76283), (675, 76415), (679, 76427), (681, 76433), (703, 76499), (708, 76517), (712, 76529), (714, 76538), (728, 76574), (750, 76652), (762, 76679), (782, 76733), (783, 76736), (787, 76754), (791, 76763),

Gene: Unstoppable_53 Start: 40230, Stop: 36751, Start Num: 66

Candidate Starts for Unstoppable_53:

(4, 40440), (Start: 66 @40230 has 166 MA's), (83, 40158), (Start: 89 @40131 has 8 MA's), (91, 40116), (126, 39954), (132, 39927), (134, 39921), (156, 39831), (161, 39816), (173, 39762), (174, 39759), (198, 39663), (226, 39585), (236, 39525), (255, 39438), (270, 39399), (282, 39354), (Start: 290 @39333 has 6 MA's), (295, 39318), (321, 39276), (326, 39264), (347, 39198), (350, 39186), (365, 39123), (381, 38994), (382, 38985), (388, 38949), (404, 38865), (407, 38847), (422, 38790), (423, 38787), (426, 38775), (469, 38637), (471, 38631), (474, 38616), (476, 38610), (482, 38577), (504, 38499), (514, 38466), (558, 38325), (576, 38268), (580, 38244), (581, 38238), (592, 38169), (602, 38106), (618, 38040), (623, 38019), (630, 38001), (645, 37944), (647, 37935), (675, 37827), (678, 37818), (681, 37806), (684, 37785), (697, 37755), (706, 37728), (731, 37662), (733, 37653), (737,

37641), (765, 37554), (776, 37530), (792, 37482), (833, 37338), (855, 37263), (905, 37089), (914, 37053), (928, 37005), (936, 36972),

Gene: Urza_53 Start: 38835, Stop: 35350, Start Num: 66

Candidate Starts for Urza_53:

(31, 38904), (36, 38895), (44, 38868), (Start: 66 @38835 has 166 MA's), (73, 38820), (75, 38808), (83, 38760), (86, 38748), (91, 38718), (100, 38667), (108, 38625), (119, 38592), (132, 38529), (164, 38394), (173, 38364), (174, 38361), (183, 38319), (198, 38265), (237, 38121), (255, 38040), (274, 37983), (277, 37974), (282, 37956), (Start: 290 @37935 has 6 MA's), (Start: 292 @37929 has 9 MA's), (321, 37878), (326, 37866), (347, 37800), (350, 37788), (357, 37761), (370, 37686), (380, 37602), (381, 37596), (407, 37449), (422, 37392), (423, 37389), (448, 37320), (450, 37311), (457, 37281), (458, 37278), (469, 37239), (471, 37233), (476, 37212), (482, 37179), (485, 37173), (504, 37101), (514, 37068), (519, 37056), (549, 36975), (558, 36927), (560, 36918), (575, 36873), (576, 36870), (580, 36846), (597, 36741), (602, 36708), (618, 36642), (645, 36546), (647, 36537), (675, 36429), (684, 36387), (697, 36357), (731, 36264), (733, 36255), (737, 36243), (738, 36240), (752, 36177), (760, 36171), (792, 36084), (800, 36063), (807, 36036), (826, 35958), (833, 35937), (849, 35889), (855, 35862), (898, 35718), (909, 35673), (940, 35556), (941, 35553), (968, 35466), (978, 35427), (979, 35421), (985, 35364), (986, 35355),

Gene: ValleyTerrace_210 Start: 112377, Stop: 115772, Start Num: 66

Candidate Starts for ValleyTerrace_210:

(Start: 23 @112284 has 44 MA's), (Start: 25 @112290 has 6 MA's), (Start: 32 @112302 has 9 MA's), (38, 112311), (Start: 66 @112377 has 166 MA's), (83, 112452), (104, 112566), (112, 112590), (133, 112650), (162, 112761), (170, 112800), (177, 112824), (185, 112866), (211, 112965), (221, 113007), (222, 113013), (227, 113025), (237, 113088), (251, 113148), (252, 113151), (259, 113178), (272, 113220), (Start: 292 @113283 has 9 MA's), (344, 113403), (351, 113439), (356, 113457), (359, 113472), (373, 113589), (379, 113628), (395, 113748), (403, 113790), (413, 113835), (415, 113844), (428, 113895), (441, 113937), (461, 114003), (464, 114012), (465, 114015), (467, 114021), (468, 114024), (469, 114033), (471, 114039), (474, 114054), (499, 114141), (530, 114246), (541, 114300), (556, 114387), (562, 114417), (572, 114447), (579, 114480), (581, 114489), (592, 114561), (596, 114591), (622, 114708), (632, 114753), (643, 114795), (680, 114939), (702, 114999), (738, 115101), (770, 115188), (772, 115191), (779, 115209), (791, 115245), (792, 115248), (813, 115308), (818, 115326), (851, 115422), (858, 115452), (864, 115470), (876, 115500), (911, 115593), (914, 115608), (939, 115689), (940, 115695), (944, 115707),

Gene: VieEnRose_54 Start: 38895, Stop: 35410, Start Num: 66

Candidate Starts for VieEnRose_54:

(31, 38964), (36, 38955), (44, 38928), (Start: 66 @38895 has 166 MA's), (73, 38880), (75, 38868), (83, 38820), (86, 38808), (91, 38778), (100, 38727), (108, 38685), (119, 38652), (132, 38589), (164, 38454), (173, 38424), (174, 38421), (183, 38379), (198, 38325), (237, 38181), (255, 38100), (274, 38043), (277, 38034), (282, 38016), (Start: 290 @37995 has 6 MA's), (321, 37938), (326, 37926), (347, 37860), (350, 37848), (357, 37821), (380, 37662), (381, 37656), (407, 37509), (422, 37452), (423, 37449), (448, 37380), (450, 37371), (457, 37341), (458, 37338), (469, 37299), (471, 37293), (476, 37272), (482, 37239), (485, 37233), (504, 37161), (514, 37128), (519, 37116), (549, 37035), (558, 36987), (560, 36978), (575, 36933), (576, 36930), (580, 36906), (597, 36801), (602, 36768), (618, 36702), (645, 36606), (647, 36597), (675, 36489), (684, 36447), (697, 36417), (731, 36324), (733, 36315), (737, 36303), (738, 36300), (752, 36237), (760, 36231), (792, 36144), (800, 36123), (807, 36096), (826, 36018), (833, 35997), (849, 35949), (855, 35922), (893, 35805), (898, 35778), (909, 35733), (929, 35658), (940, 35616), (941, 35613), (968, 35526), (978, 35487), (979, 35481), (985, 35424), (986, 35415),

Gene: Visconti_68 Start: 49767, Stop: 53069, Start Num: 26

Candidate Starts for Visconti_68:

(Start: 26 @49767 has 20 MA's), (Start: 61 @49854 has 1 MA's), (65, 49860), (Start: 72 @49869 has 72 MA's), (Start: 89 @49965 has 8 MA's), (127, 50121), (151, 50208), (152, 50211), (163, 50262), (233, 50526), (240, 50565), (258, 50637), (261, 50646), (283, 50721), (308, 50787), (309, 50793), (329, 50847), (338, 50865), (347, 50916), (348, 50919), (355, 50949), (371, 51033), (372, 51042), (376, 51069), (378, 51084), (405, 51261), (407, 51270), (435, 51375), (469, 51456), (482, 51516), (502, 51591), (508, 51624), (512, 51630), (526, 51651), (530, 51660), (543, 51705), (560, 51774), (565, 51789), (582, 51858), (592, 51921), (600, 51954), (601, 51957), (612, 52008), (631, 52083), (666, 52206), (671, 52224), (691, 52302), (692, 52305), (695, 52317), (710, 52362), (721, 52383), (724, 52395), (733, 52425), (740, 52446), (801, 52518), (829, 52575), (860, 52674), (882, 52740), (906, 52830), (916, 52860), (917, 52863), (927, 52893), (938, 52938), (951, 52980), (961, 53010), (964, 53022), (969, 53037), (971, 53046),

Gene: Wakanda_57 Start: 50039, Stop: 53326, Start Num: 68

Candidate Starts for Wakanda_57:

(Start: 68 @50039 has 63 MA's), (84, 50111), (Start: 89 @50135 has 8 MA's), (106, 50231), (157, 50414), (172, 50474), (199, 50564), (214, 50594), (217, 50609), (223, 50636), (226, 50642), (235, 50699), (249, 50762), (262, 50807), (276, 50855), (343, 51059), (357, 51125), (358, 51134), (370, 51200), (388, 51335), (395, 51368), (411, 51446), (460, 51551), (471, 51590), (474, 51605), (498, 51701), (499, 51707), (504, 51740), (519, 51785), (521, 51791), (538, 51839), (548, 51863), (554, 51890), (557, 51908), (564, 51935), (580, 51998), (592, 52070), (603, 52124), (606, 52133), (610, 52151), (612, 52157), (646, 52283), (663, 52337), (666, 52349), (675, 52400), (678, 52409), (698, 52469), (748, 52643), (765, 52694), (804, 52802), (820, 52859), (822, 52865), (836, 52913), (855, 52976), (857, 52985), (896, 53114), (911, 53156), (914, 53171), (928, 53219),

Gene: WaldoWhy_69 Start: 49783, Stop: 53085, Start Num: 26

Candidate Starts for WaldoWhy_69:

(Start: 26 @49783 has 20 MA's), (Start: 61 @49870 has 1 MA's), (65, 49876), (Start: 72 @49885 has 72 MA's), (Start: 89 @49981 has 8 MA's), (127, 50137), (151, 50224), (152, 50227), (163, 50278), (233, 50542), (240, 50581), (258, 50653), (261, 50662), (283, 50737), (308, 50803), (309, 50809), (329, 50863), (338, 50881), (347, 50932), (348, 50935), (355, 50965), (371, 51049), (376, 51085), (378, 51100), (405, 51277), (435, 51391), (469, 51472), (502, 51607), (508, 51640), (512, 51646), (526, 51667), (530, 51676), (543, 51721), (560, 51790), (565, 51805), (572, 51826), (582, 51874), (592, 51937), (600, 51970), (601, 51973), (602, 51988), (612, 52024), (631, 52099), (666, 52222), (671, 52240), (691, 52318), (692, 52321), (695, 52333), (721, 52399), (724, 52411), (733, 52441), (740, 52462), (801, 52534), (829, 52591), (860, 52690), (882, 52756), (906, 52846), (916, 52876), (917, 52879), (927, 52909), (938, 52954), (951, 52996), (961, 53026), (964, 53038), (969, 53053), (971, 53062),

Gene: Wally_207 Start: 112268, Stop: 115756, Start Num: 23

Candidate Starts for Wally_207:

(Start: 23 @112268 has 44 MA's), (Start: 25 @112274 has 6 MA's), (Start: 32 @112286 has 9 MA's), (38, 112295), (Start: 66 @112361 has 166 MA's), (83, 112436), (104, 112550), (112, 112574), (133, 112634), (162, 112745), (170, 112784), (177, 112808), (185, 112850), (211, 112949), (221, 112991), (222, 112997), (227, 113009), (237, 113072), (251, 113132), (252, 113135), (259, 113162), (272, 113204), (Start: 292 @113267 has 9 MA's), (344, 113387), (351, 113423), (356, 113441), (359, 113456), (373, 113573), (379, 113612), (395, 113732), (403, 113774), (413, 113819), (415, 113828), (428, 113879), (441, 113921), (461, 113987), (464, 113996), (465, 113999), (467, 114005), (468, 114008), (469, 114017), (471, 114023), (474, 114038), (499, 114125), (530, 114230), (541, 114284), (556, 114371), (562, 114401), (572, 114431), (579, 114464), (581, 114473), (592, 114545), (596, 114575), (622, 114692), (632, 114737), (643, 114779), (680, 114923), (702, 114983), (738, 115085), (770, 115172), (772, 115175), (779, 115193), (791, 115229), (792, 115232), (813, 115292), (818, 115310), (851, 115406), (858, 115436), (864, 115454), (876, 115484), (911, 115577), (914, 115592), (939, 115673), (940, 115679), (944, 115691),

Gene: Warpy_83 Start: 59428, Stop: 62712, Start Num: 68

Candidate Starts for Warpy_83:

(Start: 68 @59428 has 63 MA's), (78, 59473), (84, 59503), (88, 59521), (Start: 89 @59527 has 8 MA's), (100, 59593), (157, 59806), (214, 59986), (235, 60091), (249, 60154), (250, 60160), (262, 60199), (289, 60289), (298, 60316), (334, 60415), (358, 60526), (367, 60556), (368, 60559), (371, 60595), (411, 60838), (418, 60868), (471, 60982), (474, 60997), (498, 61093), (499, 61099), (521, 61183), (543, 61246), (548, 61255), (554, 61282), (564, 61327), (580, 61390), (592, 61462), (603, 61516), (606, 61525), (608, 61534), (610, 61543), (612, 61549), (663, 61729), (675, 61792), (698, 61861), (735, 61978), (757, 62068), (775, 62110), (795, 62173), (807, 62206), (822, 62257), (834, 62296), (835, 62302), (855, 62368), (870, 62416), (881, 62452), (895, 62497), (896, 62506), (911, 62548), (923, 62596), (928, 62611),

Gene: Watermoore_80 Start: 59734, Stop: 63018, Start Num: 68

Candidate Starts for Watermoore_80:

(Start: 68 @59734 has 63 MA's), (78, 59779), (84, 59809), (88, 59827), (Start: 89 @59833 has 8 MA's), (157, 60112), (182, 60214), (214, 60292), (235, 60397), (249, 60460), (250, 60466), (262, 60505), (298, 60622), (330, 60706), (358, 60832), (367, 60862), (371, 60901), (372, 60910), (403, 61108), (471, 61288), (497, 61393), (498, 61399), (499, 61405), (521, 61489), (534, 61519), (548, 61561), (554, 61588), (560, 61621), (564, 61633), (580, 61696), (592, 61768), (603, 61822), (606, 61831), (608, 61840), (610, 61849), (612, 61855), (675, 62098), (698, 62167), (702, 62179), (735, 62284), (795, 62479), (807, 62512), (822, 62563), (834, 62602), (835, 62608), (855, 62674), (870, 62722), (881, 62758), (895, 62803), (896, 62812), (911, 62854), (922, 62899), (923, 62902), (928, 62917),

Gene: Weiss13_74 Start: 55602, Stop: 57914, Start Num: 292

Candidate Starts for Weiss13_74:

(Start: 292 @55602 has 9 MA's), (338, 55698), (345, 55737), (356, 55788), (357, 55791), (359, 55803), (368, 55833), (373, 55881), (378, 55917), (419, 56151), (427, 56184), (455, 56250), (475, 56328), (478, 56346), (515, 56493), (521, 56511), (530, 56529), (552, 56601), (553, 56604), (557, 56628), (560, 56643), (571, 56673), (632, 56946), (644, 56988), (646, 56994), (648, 57006), (663, 57048), (671, 57078), (673, 57090), (685, 57150), (691, 57168), (693, 57174), (706, 57216), (715, 57243), (731, 57279), (827, 57402), (828, 57405), (839, 57441), (872, 57540), (882, 57567), (884, 57573), (893, 57603), (917, 57696), (928, 57732), (929, 57738), (946, 57795), (951, 57810), (954, 57822), (961, 57840),

Gene: Wentworth_52 Start: 39280, Stop: 36083, Start Num: 72

Candidate Starts for Wentworth_52:

(58, 39301), (Start: 72 @39280 has 72 MA's), (73, 39271), (78, 39238), (Start: 89 @39184 has 8 MA's), (97, 39130), (114, 39061), (117, 39052), (125, 39025), (128, 39013), (137, 38980), (146, 38944), (154, 38902), (157, 38890), (170, 38836), (196, 38770), (197, 38767), (241, 38551), (284, 38389), (Start: 287 @38380 has 29 MA's), (310, 38329), (316, 38314), (321, 38299), (356, 38173), (371, 38092), (376, 38056), (378, 38041), (379, 38038), (391, 37945), (407, 37855), (411, 37840), (474, 37648), (476, 37642), (481, 37615), (493, 37570), (496, 37564), (498, 37555), (508, 37492), (512, 37486), (530, 37456), (538, 37426), (553, 37381), (559, 37345), (588, 37216), (649, 36964), (661, 36937), (663, 36925), (666, 36913), (681, 36841), (688, 36802), (724, 36697), (791, 36622), (825, 36562), (829, 36550), (857, 36451), (882, 36385), (916, 36274), (919, 36262), (927, 36241), (930, 36217), (949, 36163), (951, 36157), (953, 36151), (966, 36106),

Gene: Werner_54 Start: 42465, Stop: 38980, Start Num: 66

Candidate Starts for Werner_54:

(Start: 32 @42534 has 9 MA's), (Start: 66 @42465 has 166 MA's), (Start: 81 @42402 has 1 MA's), (83, 42393), (91, 42351), (108, 42258), (126, 42189), (143, 42120), (156, 42066), (174, 41994), (182, 41958), (198, 41898), (255, 41673), (270, 41634), (277, 41607), (282, 41589), (Start: 290 @41568 has

6 MA's), (295, 41553), (321, 41511), (347, 41433), (350, 41421), (380, 41235), (381, 41229), (388, 41184), (404, 41100), (407, 41082), (422, 41025), (423, 41022), (426, 41010), (469, 40872), (471, 40866), (474, 40851), (476, 40845), (504, 40734), (514, 40701), (558, 40560), (580, 40479), (581, 40473), (592, 40404), (602, 40341), (608, 40320), (618, 40275), (645, 40179), (647, 40170), (649, 40164), (675, 40062), (678, 40053), (681, 40041), (684, 40020), (697, 39990), (706, 39963), (731, 39897), (733, 39888), (737, 39876), (765, 39789), (816, 39621), (833, 39573), (866, 39462), (869, 39456), (905, 39324), (908, 39315), (914, 39288), (936, 39207), (976, 39075), (978, 39063),

Gene: Westy_58 Start: 49852, Stop: 53142, Start Num: 68

Candidate Starts for Westy_58:

(55, 49834), (Start: 68 @49852 has 63 MA's), (74, 49867), (75, 49873), (79, 49903), (84, 49924), (88, 49942), (Start: 89 @49948 has 8 MA's), (129, 50116), (140, 50158), (157, 50227), (172, 50287), (210, 50401), (214, 50407), (235, 50512), (249, 50575), (250, 50581), (262, 50620), (328, 50809), (342, 50866), (346, 50893), (357, 50938), (407, 51244), (416, 51280), (455, 51355), (460, 51364), (471, 51403), (497, 51508), (499, 51520), (504, 51553), (512, 51583), (514, 51586), (519, 51598), (521, 51604), (548, 51676), (562, 51742), (564, 51748), (580, 51811), (592, 51883), (603, 51937), (606, 51946), (610, 51964), (612, 51970), (643, 52084), (663, 52150), (666, 52162), (672, 52186), (678, 52222), (679, 52225), (698, 52282), (700, 52288), (704, 52300), (714, 52336), (737, 52405), (799, 52603), (809, 52636), (820, 52672), (822, 52678), (826, 52690), (855, 52789), (857, 52798), (864, 52819), (874, 52849), (892, 52906), (911, 52969), (925, 53020), (928, 53032),

Gene: Whatever_54 Start: 42491, Stop: 39006, Start Num: 66

Candidate Starts for Whatever_54:

(Start: 32 @42560 has 9 MA's), (Start: 66 @42491 has 166 MA's), (Start: 81 @42428 has 1 MA's), (83, 42419), (91, 42377), (108, 42284), (126, 42215), (143, 42146), (156, 42092), (174, 42020), (182, 41984), (198, 41924), (255, 41699), (270, 41660), (277, 41633), (282, 41615), (Start: 290 @41594 has 6 MA's), (295, 41579), (321, 41537), (347, 41459), (350, 41447), (380, 41261), (381, 41255), (388, 41210), (404, 41126), (407, 41108), (422, 41051), (423, 41048), (426, 41036), (469, 40898), (471, 40892), (474, 40877), (476, 40871), (482, 40838), (504, 40760), (514, 40727), (558, 40586), (580, 40505), (581, 40499), (592, 40430), (602, 40367), (608, 40346), (618, 40301), (645, 40205), (647, 40196), (649, 40190), (675, 40088), (678, 40079), (681, 40067), (684, 40046), (697, 40016), (706, 39989), (731, 39923), (733, 39914), (737, 39902), (765, 39815), (816, 39647), (833, 39599), (866, 39488), (869, 39482), (905, 39350), (908, 39341), (914, 39314), (936, 39233), (976, 39101), (978, 39089),

Gene: Wheezy_60 Start: 48108, Stop: 44797, Start Num: 72

Candidate Starts for Wheezy_60:

(Start: 72 @48108 has 72 MA's), (84, 48036), (Start: 89 @48012 has 8 MA's), (94, 47967), (124, 47859), (127, 47850), (204, 47568), (206, 47562), (212, 47538), (234, 47430), (240, 47400), (311, 47193), (356, 47022), (365, 46980), (368, 46974), (376, 46902), (378, 46887), (399, 46749), (460, 46551), (474, 46497), (475, 46494), (491, 46434), (502, 46383), (530, 46314), (543, 46269), (593, 46029), (602, 45987), (603, 45984), (605, 45978), (610, 45960), (634, 45864), (648, 45810), (688, 45666), (692, 45657), (722, 45582), (744, 45507), (759, 45453), (779, 45411), (795, 45363), (824, 45282), (831, 45261), (857, 45171), (871, 45141), (878, 45117), (879, 45114), (930, 44931), (951, 44874), (971, 44808),

Gene: WhereRU_77 Start: 58001, Stop: 61285, Start Num: 68

Candidate Starts for WhereRU_77:

(Start: 68 @58001 has 63 MA's), (78, 58046), (84, 58076), (88, 58094), (Start: 89 @58100 has 8 MA's), (100, 58166), (157, 58379), (160, 58385), (182, 58481), (214, 58559), (235, 58664), (249, 58727), (250, 58733), (262, 58772), (298, 58889), (334, 58988), (358, 59099), (367, 59129), (371, 59168), (411, 59411), (471, 59555), (474, 59570), (497, 59660), (498, 59666), (499, 59672), (502, 59696), (521, 59756), (538, 59804), (543, 59819), (548, 59828), (564, 59900), (580, 59963), (592, 60035),

(603, 60089), (606, 60098), (608, 60107), (610, 60116), (612, 60122), (632, 60203), (663, 60302), (675, 60365), (698, 60434), (702, 60446), (753, 60632), (760, 60650), (795, 60746), (807, 60779), (822, 60830), (835, 60875), (855, 60941), (864, 60971), (870, 60989), (881, 61025), (895, 61070), (896, 61079), (901, 61100), (911, 61121), (923, 61169), (928, 61184),

Gene: WhoseManz_60 Start: 45289, Stop: 42038, Start Num: 72

Candidate Starts for WhoseManz_60:

(5, 45517), (Start: 72 @45289 has 72 MA's), (86, 45208), (Start: 89 @45193 has 8 MA's), (94, 45148), (124, 45040), (127, 45031), (169, 44866), (206, 44743), (218, 44692), (226, 44665), (234, 44611), (240, 44581), (Start: 292 @44398 has 9 MA's), (311, 44374), (343, 44266), (359, 44188), (365, 44161), (376, 44083), (378, 44068), (399, 43930), (460, 43732), (462, 43726), (469, 43699), (482, 43639), (502, 43564), (508, 43531), (530, 43495), (548, 43438), (561, 43375), (593, 43210), (594, 43207), (602, 43168), (603, 43165), (605, 43159), (607, 43150), (610, 43141), (634, 43045), (640, 43027), (648, 42991), (691, 42841), (708, 42787), (759, 42691), (795, 42607), (799, 42598), (817, 42547), (846, 42457), (878, 42361), (879, 42358), (930, 42175), (971, 42052),

Gene: Wilkos_53 Start: 39157, Stop: 35936, Start Num: 58

Candidate Starts for Wilkos_53:

(58, 39157), (Start: 72 @39136 has 72 MA's), (78, 39094), (82, 39073), (Start: 89 @39040 has 8 MA's), (97, 38986), (104, 38953), (114, 38917), (117, 38908), (128, 38869), (137, 38836), (146, 38800), (154, 38758), (157, 38746), (170, 38692), (197, 38623), (218, 38521), (241, 38407), (283, 38251), (284, 38245), (Start: 287 @38236 has 29 MA's), (310, 38185), (316, 38170), (321, 38155), (356, 38029), (368, 37984), (371, 37948), (373, 37936), (376, 37912), (378, 37897), (379, 37894), (382, 37849), (391, 37801), (407, 37711), (411, 37696), (442, 37585), (481, 37471), (488, 37447), (496, 37420), (498, 37411), (508, 37348), (512, 37342), (530, 37312), (538, 37282), (553, 37237), (559, 37201), (588, 37072), (617, 36937), (649, 36820), (661, 36793), (663, 36781), (666, 36769), (667, 36766), (681, 36697), (688, 36658), (724, 36553), (742, 36496), (791, 36478), (817, 36442), (825, 36418), (829, 36406), (848, 36346), (857, 36307), (904, 36157), (916, 36130), (919, 36118), (927, 36097), (930, 36073), (949, 36019), (951, 36013), (953, 36007), (966, 35962),

Gene: Willis_210 Start: 113275, Stop: 116670, Start Num: 66

Candidate Starts for Willis_210:

(Start: 23 @113182 has 44 MA's), (Start: 25 @113188 has 6 MA's), (Start: 32 @113200 has 9 MA's), (38, 113209), (Start: 66 @113275 has 166 MA's), (83, 113350), (104, 113464), (112, 113488), (133, 113548), (162, 113659), (170, 113698), (177, 113722), (185, 113764), (211, 113863), (221, 113905), (222, 113911), (227, 113923), (237, 113986), (251, 114046), (252, 114049), (259, 114076), (272, 114118), (Start: 292 @114181 has 9 MA's), (344, 114301), (351, 114337), (356, 114355), (359, 114370), (373, 114487), (379, 114526), (395, 114646), (403, 114688), (413, 114733), (415, 114742), (428, 114793), (441, 114835), (461, 114901), (464, 114910), (465, 114913), (467, 114919), (468, 114922), (469, 114931), (471, 114937), (474, 114952), (499, 115039), (530, 115144), (541, 115198), (556, 115285), (562, 115315), (572, 115345), (579, 115378), (581, 115387), (592, 115459), (596, 115489), (622, 115606), (632, 115651), (643, 115693), (680, 115837), (702, 115897), (738, 115999), (770, 116086), (772, 116089), (779, 116107), (791, 116143), (792, 116146), (813, 116206), (818, 116224), (851, 116320), (858, 116350), (864, 116368), (876, 116398), (911, 116491), (914, 116506), (939, 116587), (940, 116593), (944, 116605),

Gene: Wipeout_79 Start: 58788, Stop: 62108, Start Num: 67

Candidate Starts for Wipeout_79:

(Start: 67 @58788 has 30 MA's), (79, 58839), (84, 58860), (Start: 89 @58884 has 8 MA's), (103, 58965), (157, 59163), (214, 59343), (226, 59391), (235, 59448), (245, 59499), (249, 59517), (251, 59526), (262, 59562), (295, 59670), (298, 59679), (358, 59889), (371, 59958), (395, 60123), (411, 60201), (469, 60363), (499, 60486), (502, 60510), (521, 60570), (543, 60633), (548, 60642), (592, 60846), (603, 60900), (606, 60909), (610, 60927), (612, 60933), (666, 61125), (672, 61149), (675,

61176), (706, 61284), (760, 61473), (790, 61551), (806, 61593), (809, 61611), (822, 61653), (834, 61692), (835, 61698), (845, 61725), (855, 61764), (870, 61812), (873, 61821), (895, 61893), (899, 61914), (907, 61941), (911, 61944), (914, 61959), (923, 61992), (942, 62061),

Gene: Wofford_81 Start: 59478, Stop: 62798, Start Num: 67

Candidate Starts for Wofford_81:

(47, 59448), (Start: 67 @59478 has 30 MA's), (79, 59529), (84, 59550), (Start: 89 @59574 has 8 MA's), (103, 59655), (157, 59853), (214, 60033), (226, 60081), (235, 60138), (245, 60189), (249, 60207), (251, 60216), (262, 60252), (298, 60369), (328, 60441), (358, 60579), (371, 60648), (395, 60813), (411, 60891), (469, 61053), (476, 61080), (499, 61176), (502, 61200), (521, 61260), (548, 61332), (592, 61536), (603, 61590), (606, 61599), (610, 61617), (612, 61623), (664, 61806), (666, 61815), (672, 61839), (675, 61866), (760, 62163), (788, 62238), (790, 62241), (806, 62283), (822, 62343), (834, 62382), (835, 62388), (845, 62415), (855, 62454), (870, 62502), (873, 62511), (895, 62583), (907, 62631), (911, 62634), (922, 62679), (923, 62682), (938, 62736), (942, 62751),

Gene: Wojtek_72 Start: 51325, Stop: 55365, Start Num: 89

Candidate Starts for Wojtek_72:

(Start: 81 @51289 has 1 MA's), (Start: 89 @51325 has 8 MA's), (94, 51370), (104, 51412), (173, 51673), (200, 51748), (226, 51859), (233, 51904), (259, 52027), (304, 52174), (Start: 307 @52183 has 8 MA's), (Start: 315 @52216 has 1 MA's), (328, 52252), (338, 52294), (346, 52339), (356, 52381), (378, 52513), (379, 52516), (380, 52546), (395, 52636), (407, 52699), (430, 52789), (435, 52804), (442, 52825), (460, 52852), (502, 53020), (508, 53053), (521, 53071), (543, 53134), (544, 53137), (559, 53200), (571, 53233), (582, 53287), (587, 53323), (629, 53503), (635, 53530), (640, 53545), (648, 53581), (651, 53722), (652, 53764), (653, 53890), (654, 53917), (655, 53980), (656, 54151), (657, 54208), (658, 54214), (659, 54355), (666, 54433), (671, 54451), (692, 54547), (695, 54559), (699, 54571), (832, 54847), (867, 54958), (879, 54994), (882, 55006), (884, 55012), (885, 55015), (893, 55042), (903, 55087), (935, 55195), (948, 55234), (950, 55240), (958, 55264), (969, 55300),

Gene: Wollypog_59 Start: 44236, Stop: 46455, Start Num: 315

Candidate Starts for Wollypog_59:

(275, 44131), (286, 44170), (Start: 315 @44236 has 1 MA's), (335, 44287), (346, 44335), (356, 44377), (374, 44476), (376, 44494), (378, 44509), (380, 44542), (382, 44557), (383, 44563), (390, 44599), (405, 44686), (419, 44743), (435, 44800), (462, 44854), (502, 45022), (512, 45061), (530, 45091), (538, 45121), (552, 45163), (558, 45196), (559, 45202), (560, 45205), (571, 45235), (587, 45325), (616, 45457), (629, 45505), (640, 45547), (648, 45583), (666, 45637), (671, 45655), (673, 45667), (692, 45748), (702, 45781), (791, 45913), (816, 45946), (825, 45973), (859, 46090), (900, 46219), (916, 46261), (927, 46294), (941, 46351), (944, 46357), (950, 46375), (951, 46378), (957, 46399),

Gene: Xenia2_80 Start: 51941, Stop: 55192, Start Num: 89

Candidate Starts for Xenia2_80:

(Start: 76 @51878 has 4 MA's), (86, 51926), (Start: 89 @51941 has 8 MA's), (90, 51950), (91, 51956), (108, 52049), (164, 52259), (173, 52289), (190, 52337), (213, 52424), (233, 52520), (272, 52685), (283, 52721), (304, 52790), (Start: 307 @52799 has 8 MA's), (338, 52910), (346, 52955), (356, 52997), (378, 53129), (379, 53132), (380, 53162), (407, 53315), (430, 53405), (435, 53420), (442, 53441), (502, 53636), (508, 53669), (521, 53687), (543, 53750), (544, 53753), (571, 53849), (582, 53903), (587, 53939), (612, 54053), (629, 54119), (640, 54161), (648, 54197), (666, 54251), (671, 54269), (692, 54365), (695, 54377), (699, 54389), (734, 54473), (832, 54668), (862, 54764), (867, 54779), (882, 54827), (884, 54833), (885, 54836), (893, 54863), (903, 54908), (948, 55055), (950, 55061), (958, 55085), (969, 55121),

Gene: Yaboi_82 Start: 58369, Stop: 61689, Start Num: 67

Candidate Starts for Yaboi_82:

(Start: 67 @58369 has 30 MA's), (84, 58441), (Start: 89 @58465 has 8 MA's), (103, 58546), (157, 58744), (214, 58924), (226, 58972), (235, 59029), (245, 59080), (249, 59098), (251, 59107), (262, 59143), (298, 59260), (328, 59332), (355, 59455), (358, 59470), (371, 59539), (395, 59704), (411, 59782), (469, 59944), (475, 59968), (499, 60067), (521, 60151), (548, 60223), (592, 60427), (603, 60481), (606, 60490), (610, 60508), (612, 60514), (643, 60628), (666, 60706), (672, 60730), (675, 60757), (748, 61012), (751, 61030), (755, 61042), (790, 61132), (809, 61192), (822, 61234), (835, 61279), (845, 61306), (855, 61345), (870, 61393), (873, 61402), (895, 61474), (897, 61486), (899, 61495), (907, 61522), (911, 61525), (914, 61540), (923, 61573), (938, 61627), (942, 61642),

Gene: Yara_46 Start: 37592, Stop: 34395, Start Num: 72

Candidate Starts for Yara_46:

(Start: 72 @37592 has 72 MA's), (78, 37550), (Start: 89 @37496 has 8 MA's), (94, 37451), (97, 37442), (101, 37424), (114, 37373), (117, 37364), (128, 37325), (137, 37292), (146, 37256), (170, 37148), (196, 37082), (197, 37079), (218, 36977), (233, 36905), (241, 36863), (254, 36800), (255, 36797), (Start: 287 @36692 has 29 MA's), (297, 36665), (310, 36641), (316, 36626), (321, 36611), (341, 36557), (349, 36515), (352, 36500), (356, 36485), (359, 36470), (376, 36368), (378, 36353), (379, 36350), (391, 36257), (394, 36239), (407, 36167), (430, 36077), (442, 36041), (474, 35960), (476, 35954), (481, 35927), (496, 35876), (508, 35804), (512, 35798), (526, 35777), (530, 35768), (535, 35753), (538, 35738), (552, 35696), (553, 35693), (559, 35657), (588, 35528), (617, 35393), (661, 35249), (663, 35237), (666, 35225), (688, 35114), (702, 35072), (724, 35009), (791, 34934), (825, 34874), (827, 34868), (829, 34862), (857, 34763), (879, 34703), (882, 34697), (916, 34586), (919, 34574), (927, 34553), (930, 34529), (951, 34469), (962, 34433), (966, 34418), (969, 34412),

Gene: Yasdnii_54 Start: 42454, Stop: 39032, Start Num: 81

Candidate Starts for Yasdnii_54:

(Start: 32 @42586 has 9 MA's), (Start: 66 @42517 has 166 MA's), (Start: 81 @42454 has 1 MA's), (83, 42445), (91, 42403), (108, 42310), (126, 42241), (143, 42172), (156, 42118), (174, 42046), (182, 42010), (198, 41950), (255, 41725), (270, 41686), (277, 41659), (282, 41641), (Start: 290 @41620 has 6 MA's), (295, 41605), (321, 41563), (347, 41485), (350, 41473), (380, 41287), (381, 41281), (388, 41236), (404, 41152), (407, 41134), (422, 41077), (423, 41074), (426, 41062), (451, 40990), (469, 40924), (471, 40918), (474, 40903), (476, 40897), (482, 40864), (504, 40786), (514, 40753), (558, 40612), (580, 40531), (581, 40525), (592, 40456), (602, 40393), (608, 40372), (618, 40327), (645, 40231), (647, 40222), (649, 40216), (675, 40114), (678, 40105), (681, 40093), (684, 40072), (697, 40042), (706, 40015), (731, 39949), (733, 39940), (737, 39928), (765, 39841), (816, 39673), (833, 39625), (866, 39514), (905, 39376), (908, 39367), (914, 39340), (928, 39292), (936, 39259), (944, 39232), (976, 39127), (978, 39115),

Gene: Yassified_206 Start: 112716, Stop: 116111, Start Num: 66

Candidate Starts for Yassified_206:

(Start: 18 @112593 has 5 MA's), (Start: 23 @112623 has 44 MA's), (Start: 25 @112629 has 6 MA's), (Start: 32 @112641 has 9 MA's), (38, 112650), (Start: 66 @112716 has 166 MA's), (83, 112791), (104, 112905), (112, 112929), (133, 112989), (162, 113100), (170, 113139), (177, 113163), (185, 113205), (211, 113304), (221, 113346), (222, 113352), (227, 113364), (237, 113427), (251, 113487), (252, 113490), (259, 113517), (272, 113559), (Start: 292 @113622 has 9 MA's), (344, 113742), (351, 113778), (356, 113796), (359, 113811), (373, 113928), (379, 113967), (395, 114087), (403, 114129), (413, 114174), (415, 114183), (428, 114234), (441, 114276), (461, 114342), (464, 114351), (465, 114354), (467, 114360), (468, 114363), (469, 114372), (471, 114378), (474, 114393), (499, 114480), (530, 114585), (541, 114639), (556, 114726), (562, 114756), (572, 114786), (579, 114819), (581, 114828), (592, 114900), (596, 114930), (622, 115047), (632, 115092), (643, 115134), (680, 115278), (702, 115338), (738, 115440), (770, 115527), (772, 115530), (779, 115548), (791, 115584), (792, 115587), (813, 115647), (818, 115665), (851, 115761), (858, 115791), (864, 115809), (876, 115839), (911, 115932), (914, 115947), (939, 116028), (940, 116034), (944, 116046),

Gene: Yelo_73 Start: 55981, Stop: 58293, Start Num: 292

Candidate Starts for Yelo_73:

(Start: 292 @55981 has 9 MA's), (338, 56077), (345, 56116), (356, 56167), (357, 56170), (358, 56179), (359, 56182), (368, 56212), (373, 56260), (378, 56296), (419, 56530), (427, 56563), (455, 56629), (475, 56707), (478, 56725), (521, 56890), (530, 56908), (552, 56980), (553, 56983), (557, 57007), (560, 57022), (571, 57052), (632, 57325), (644, 57367), (646, 57373), (648, 57385), (663, 57427), (671, 57457), (673, 57469), (685, 57529), (693, 57553), (715, 57622), (731, 57658), (827, 57781), (828, 57784), (839, 57820), (872, 57919), (882, 57946), (884, 57952), (893, 57982), (928, 58111), (929, 58117), (946, 58174), (951, 58189), (954, 58201), (961, 58219),

Gene: YemiJoy2021_210 Start: 114031, Stop: 117426, Start Num: 66

Candidate Starts for YemiJoy2021_210:

(Start: 23 @113938 has 44 MA's), (Start: 25 @113944 has 6 MA's), (Start: 32 @113956 has 9 MA's), (38, 113965), (Start: 66 @114031 has 166 MA's), (83, 114106), (104, 114220), (112, 114244), (133, 114304), (162, 114415), (170, 114454), (177, 114478), (185, 114520), (211, 114619), (221, 114661), (222, 114667), (227, 114679), (237, 114742), (251, 114802), (252, 114805), (259, 114832), (272, 114874), (Start: 292 @114937 has 9 MA's), (344, 115057), (351, 115093), (356, 115111), (359, 115126), (373, 115243), (379, 115282), (395, 115402), (403, 115444), (413, 115489), (415, 115498), (428, 115549), (441, 115591), (461, 115657), (464, 115666), (465, 115669), (467, 115675), (468, 115678), (469, 115687), (471, 115693), (474, 115708), (499, 115795), (530, 115900), (541, 115954), (556, 116041), (562, 116071), (572, 116101), (579, 116134), (581, 116143), (592, 116215), (596, 116245), (622, 116362), (632, 116407), (643, 116449), (680, 116593), (702, 116653), (738, 116755), (770, 116842), (772, 116845), (779, 116863), (791, 116899), (792, 116902), (813, 116962), (818, 116980), (851, 117076), (858, 117106), (864, 117124), (876, 117154), (911, 117247), (914, 117262), (939, 117343), (940, 117349), (944, 117361),

Gene: Yikes_80 Start: 52791, Stop: 56132, Start Num: 69

Candidate Starts for Yikes_80:

(41, 52743), (Start: 69 @52791 has 20 MA's), (Start: 81 @52851 has 1 MA's), (Start: 89 @52887 has 8 MA's), (94, 52932), (104, 52974), (173, 53235), (204, 53337), (213, 53370), (233, 53466), (304, 53736), (Start: 307 @53745 has 8 MA's), (338, 53853), (346, 53898), (356, 53940), (378, 54072), (379, 54075), (380, 54105), (383, 54126), (395, 54195), (405, 54249), (430, 54348), (435, 54363), (455, 54405), (502, 54579), (508, 54612), (521, 54630), (530, 54648), (543, 54693), (544, 54696), (571, 54792), (580, 54834), (582, 54846), (587, 54882), (629, 55062), (640, 55104), (648, 55140), (666, 55194), (671, 55212), (692, 55308), (695, 55320), (795, 55515), (829, 55599), (853, 55680), (862, 55704), (867, 55719), (879, 55755), (882, 55767), (884, 55773), (885, 55776), (893, 55803), (903, 55848), (935, 55956), (950, 56001), (958, 56025), (969, 56061),

Gene: Yndexa_60 Start: 47229, Stop: 43978, Start Num: 72

Candidate Starts for Yndexa_60:

(16, 47361), (22, 47331), (27, 47319), (Start: 72 @47229 has 72 MA's), (86, 47148), (Start: 89 @47133 has 8 MA's), (94, 47088), (124, 46980), (127, 46971), (169, 46806), (206, 46683), (218, 46632), (226, 46605), (234, 46551), (240, 46521), (311, 46314), (343, 46206), (359, 46128), (365, 46101), (376, 46023), (378, 46008), (399, 45870), (460, 45672), (462, 45666), (469, 45639), (502, 45504), (508, 45471), (530, 45435), (543, 45390), (548, 45378), (561, 45315), (593, 45150), (594, 45147), (602, 45108), (603, 45105), (605, 45099), (607, 45090), (610, 45081), (634, 44985), (640, 44967), (648, 44931), (691, 44781), (708, 44727), (759, 44631), (795, 44547), (799, 44538), (817, 44487), (846, 44397), (878, 44301), (879, 44298), (895, 44247), (930, 44115), (971, 43992),

Gene: YoungMoneyMata_207 Start: 112573, Stop: 115968, Start Num: 66

Candidate Starts for YoungMoneyMata_207:

(Start: 23 @112480 has 44 MA's), (Start: 25 @112486 has 6 MA's), (Start: 32 @112498 has 9 MA's), (38, 112507), (Start: 66 @112573 has 166 MA's), (83, 112648), (104, 112762), (112, 112786), (133,

112846), (162, 112957), (170, 112996), (177, 113020), (185, 113062), (211, 113161), (221, 113203), (222, 113209), (227, 113221), (237, 113284), (251, 113344), (252, 113347), (259, 113374), (272, 113416), (Start: 292 @113479 has 9 MA's), (344, 113599), (351, 113635), (356, 113653), (359, 113668), (373, 113785), (379, 113824), (395, 113944), (403, 113986), (413, 114031), (415, 114040), (428, 114091), (441, 114133), (461, 114199), (464, 114208), (465, 114211), (467, 114217), (468, 114220), (469, 114229), (471, 114235), (474, 114250), (499, 114337), (530, 114442), (541, 114496), (556, 114583), (562, 114613), (572, 114643), (579, 114676), (581, 114685), (592, 114757), (596, 114787), (622, 114904), (632, 114949), (643, 114991), (680, 115135), (702, 115195), (738, 115297), (770, 115384), (772, 115387), (779, 115405), (791, 115441), (792, 115444), (813, 115504), (818, 115522), (851, 115618), (858, 115648), (864, 115666), (876, 115696), (911, 115789), (914, 115804), (939, 115885), (940, 115891), (944, 115903),

Gene: Yucca_209 Start: 113930, Stop: 117418, Start Num: 23

Candidate Starts for Yucca_209:

(Start: 23 @113930 has 44 MA's), (Start: 25 @113936 has 6 MA's), (Start: 32 @113948 has 9 MA's), (38, 113957), (Start: 66 @114023 has 166 MA's), (83, 114098), (104, 114212), (112, 114236), (133, 114296), (162, 114407), (170, 114446), (177, 114470), (185, 114512), (211, 114611), (221, 114653), (222, 114659), (227, 114671), (237, 114734), (251, 114794), (252, 114797), (259, 114824), (272, 114866), (Start: 292 @114929 has 9 MA's), (344, 115049), (351, 115085), (356, 115103), (359, 115118), (373, 115235), (379, 115274), (395, 115394), (403, 115436), (413, 115481), (415, 115490), (428, 115541), (441, 115583), (461, 115649), (464, 115658), (465, 115661), (467, 115667), (468, 115670), (469, 115679), (471, 115685), (474, 115700), (499, 115787), (530, 115892), (541, 115946), (556, 116033), (562, 116063), (572, 116093), (579, 116126), (581, 116135), (592, 116207), (596, 116237), (622, 116354), (632, 116399), (643, 116441), (680, 116585), (702, 116645), (738, 116747), (770, 116834), (772, 116837), (779, 116855), (791, 116891), (792, 116894), (813, 116954), (818, 116972), (851, 117068), (858, 117098), (864, 117116), (876, 117146), (911, 117239), (914, 117254), (939, 117335), (940, 117341), (944, 117353),

Gene: Zalkecks_208 Start: 113011, Stop: 116499, Start Num: 23

Candidate Starts for Zalkecks_208:

(Start: 23 @113011 has 44 MA's), (Start: 25 @113017 has 6 MA's), (Start: 32 @113029 has 9 MA's), (38, 113038), (Start: 66 @113104 has 166 MA's), (83, 113179), (104, 113293), (112, 113317), (133, 113377), (162, 113488), (170, 113527), (177, 113551), (185, 113593), (211, 113692), (221, 113734), (222, 113740), (227, 113752), (237, 113815), (251, 113875), (252, 113878), (259, 113905), (272, 113947), (Start: 292 @114010 has 9 MA's), (344, 114130), (351, 114166), (356, 114184), (359, 114199), (373, 114316), (379, 114355), (395, 114475), (403, 114517), (413, 114562), (415, 114571), (428, 114622), (441, 114664), (461, 114730), (464, 114739), (465, 114742), (467, 114748), (468, 114751), (469, 114760), (471, 114766), (474, 114781), (499, 114868), (530, 114973), (541, 115027), (556, 115114), (562, 115144), (572, 115174), (579, 115207), (581, 115216), (592, 115288), (596, 115318), (622, 115435), (632, 115480), (643, 115522), (680, 115666), (702, 115726), (738, 115828), (770, 115915), (772, 115918), (779, 115936), (791, 115972), (792, 115975), (813, 116035), (818, 116053), (851, 116149), (858, 116179), (864, 116197), (876, 116227), (911, 116320), (914, 116335), (939, 116416), (940, 116422), (944, 116434),

Gene: Zany_76 Start: 52244, Stop: 55585, Start Num: 69

Candidate Starts for Zany_76:

(43, 52202), (Start: 69 @52244 has 20 MA's), (Start: 81 @52304 has 1 MA's), (Start: 89 @52340 has 8 MA's), (94, 52385), (104, 52427), (173, 52688), (204, 52790), (213, 52823), (233, 52919), (304, 53189), (Start: 307 @53198 has 8 MA's), (338, 53306), (346, 53351), (356, 53393), (378, 53525), (379, 53528), (380, 53558), (383, 53579), (395, 53648), (405, 53702), (430, 53801), (435, 53816), (455, 53858), (502, 54032), (508, 54065), (521, 54083), (530, 54101), (543, 54146), (544, 54149), (571, 54245), (580, 54287), (582, 54299), (587, 54335), (629, 54515), (640, 54557), (648, 54593), (666, 54647), (671, 54665), (692, 54761), (695, 54773), (794, 54962), (829, 55052), (862, 55157), (867,

55172), (879, 55208), (882, 55220), (884, 55226), (885, 55229), (893, 55256), (903, 55301), (935, 55409), (950, 55454), (958, 55478), (969, 55514),

Gene: Zeenon_211 Start: 113675, Stop: 117070, Start Num: 66

Candidate Starts for Zeenon_211:

(Start: 23 @113582 has 44 MA's), (Start: 25 @113588 has 6 MA's), (Start: 32 @113600 has 9 MA's), (38, 113609), (Start: 66 @113675 has 166 MA's), (83, 113750), (104, 113864), (112, 113888), (133, 113948), (162, 114059), (170, 114098), (177, 114122), (185, 114164), (211, 114263), (221, 114305), (222, 114311), (227, 114323), (237, 114386), (251, 114446), (252, 114449), (259, 114476), (272, 114518), (Start: 292 @114581 has 9 MA's), (344, 114701), (351, 114737), (356, 114755), (359, 114770), (373, 114887), (379, 114926), (395, 115046), (403, 115088), (413, 115133), (415, 115142), (428, 115193), (441, 115235), (461, 115301), (464, 115310), (465, 115313), (467, 115319), (468, 115322), (469, 115331), (471, 115337), (474, 115352), (499, 115439), (530, 115544), (541, 115598), (556, 115685), (562, 115715), (572, 115745), (579, 115778), (581, 115787), (592, 115859), (596, 115889), (622, 116006), (632, 116051), (643, 116093), (680, 116237), (702, 116297), (738, 116399), (770, 116486), (772, 116489), (779, 116507), (791, 116543), (792, 116546), (813, 116606), (818, 116624), (851, 116720), (858, 116750), (864, 116768), (876, 116798), (911, 116891), (914, 116906), (939, 116987), (940, 116993), (944, 117005),

Gene: Zemlya_55 Start: 41509, Stop: 38030, Start Num: 70

Candidate Starts for Zemlya_55:

(Start: 70 @41509 has 4 MA's), (83, 41437), (84, 41434), (Start: 89 @41410 has 8 MA's), (92, 41377), (104, 41323), (108, 41302), (126, 41233), (143, 41164), (156, 41110), (174, 41038), (182, 41002), (198, 40942), (226, 40864), (255, 40717), (270, 40678), (277, 40651), (282, 40633), (Start: 290 @40612 has 6 MA's), (295, 40597), (347, 40477), (350, 40465), (380, 40279), (381, 40273), (404, 40144), (407, 40126), (422, 40069), (423, 40066), (426, 40054), (469, 39916), (471, 39910), (474, 39895), (476, 39889), (482, 39856), (504, 39778), (514, 39745), (558, 39604), (580, 39523), (581, 39517), (592, 39448), (599, 39406), (602, 39385), (608, 39364), (618, 39319), (630, 39280), (645, 39223), (647, 39214), (672, 39133), (675, 39106), (681, 39085), (684, 39064), (697, 39034), (706, 39007), (731, 38941), (733, 38932), (737, 38920), (765, 38833), (816, 38665), (833, 38617), (857, 38533), (866, 38506), (905, 38368), (908, 38359), (914, 38332), (928, 38284), (929, 38278), (934, 38257), (936, 38251), (968, 38146), (978, 38107), (985, 38044),

Gene: Zenon_76 Start: 55925, Stop: 58237, Start Num: 292

Candidate Starts for Zenon_76:

(Start: 292 @55925 has 9 MA's), (338, 56021), (345, 56060), (356, 56111), (357, 56114), (358, 56123), (359, 56126), (368, 56156), (373, 56204), (378, 56240), (419, 56474), (427, 56507), (455, 56573), (475, 56651), (478, 56669), (521, 56834), (530, 56852), (552, 56924), (553, 56927), (557, 56951), (560, 56966), (571, 56996), (632, 57269), (644, 57311), (646, 57317), (648, 57329), (663, 57371), (671, 57401), (673, 57413), (685, 57473), (691, 57491), (693, 57497), (715, 57566), (731, 57602), (827, 57725), (828, 57728), (839, 57764), (872, 57863), (882, 57890), (884, 57896), (893, 57926), (928, 58055), (929, 58061), (946, 58118), (951, 58133), (954, 58145), (961, 58163), (966, 58184),

Gene: Zion_46 Start: 42797, Stop: 39504, Start Num: 72

Candidate Starts for Zion_46:

(Start: 72 @42797 has 72 MA's), (80, 42740), (86, 42716), (Start: 89 @42701 has 8 MA's), (90, 42692), (127, 42545), (179, 42338), (191, 42263), (195, 42239), (204, 42185), (323, 41771), (347, 41669), (374, 41534), (376, 41516), (378, 41501), (391, 41405), (444, 41186), (445, 41183), (455, 41168), (468, 41138), (474, 41108), (502, 40991), (508, 40958), (525, 40931), (534, 40907), (571, 40760), (582, 40706), (585, 40685), (601, 40610), (603, 40592), (648, 40415), (661, 40385), (667, 40358), (671, 40343), (719, 40214), (746, 40181), (786, 40094), (829, 39980), (831, 39974), (834, 39962), (885, 39812), (886, 39809), (888, 39803), (893, 39785), (895, 39776), (898, 39758), (929, 39656), (935, 39632), (946, 39596), (948, 39590),

Gene: ZygoTaiga_206 Start: 114202, Stop: 117690, Start Num: 23

Candidate Starts for ZygoTaiga_206:

(Start: 23 @114202 has 44 MA's), (Start: 25 @114208 has 6 MA's), (Start: 32 @114220 has 9 MA's), (38, 114229), (Start: 66 @114295 has 166 MA's), (83, 114370), (104, 114484), (112, 114508), (133, 114568), (162, 114679), (170, 114718), (177, 114742), (185, 114784), (211, 114883), (221, 114925), (222, 114931), (227, 114943), (237, 115006), (251, 115066), (252, 115069), (259, 115096), (272, 115138), (Start: 292 @115201 has 9 MA's), (344, 115321), (351, 115357), (356, 115375), (359, 115390), (373, 115507), (379, 115546), (395, 115666), (403, 115708), (413, 115753), (415, 115762), (428, 115813), (441, 115855), (461, 115921), (464, 115930), (465, 115933), (467, 115939), (468, 115942), (469, 115951), (471, 115957), (474, 115972), (499, 116059), (530, 116164), (541, 116218), (556, 116305), (562, 116335), (572, 116365), (579, 116398), (581, 116407), (592, 116479), (596, 116509), (622, 116626), (632, 116671), (643, 116713), (680, 116857), (702, 116917), (738, 117019), (770, 117106), (772, 117109), (779, 117127), (791, 117163), (792, 117166), (813, 117226), (818, 117244), (851, 117340), (858, 117370), (864, 117388), (876, 117418), (911, 117511), (914, 117526), (939, 117607), (940, 117613), (944, 117625),