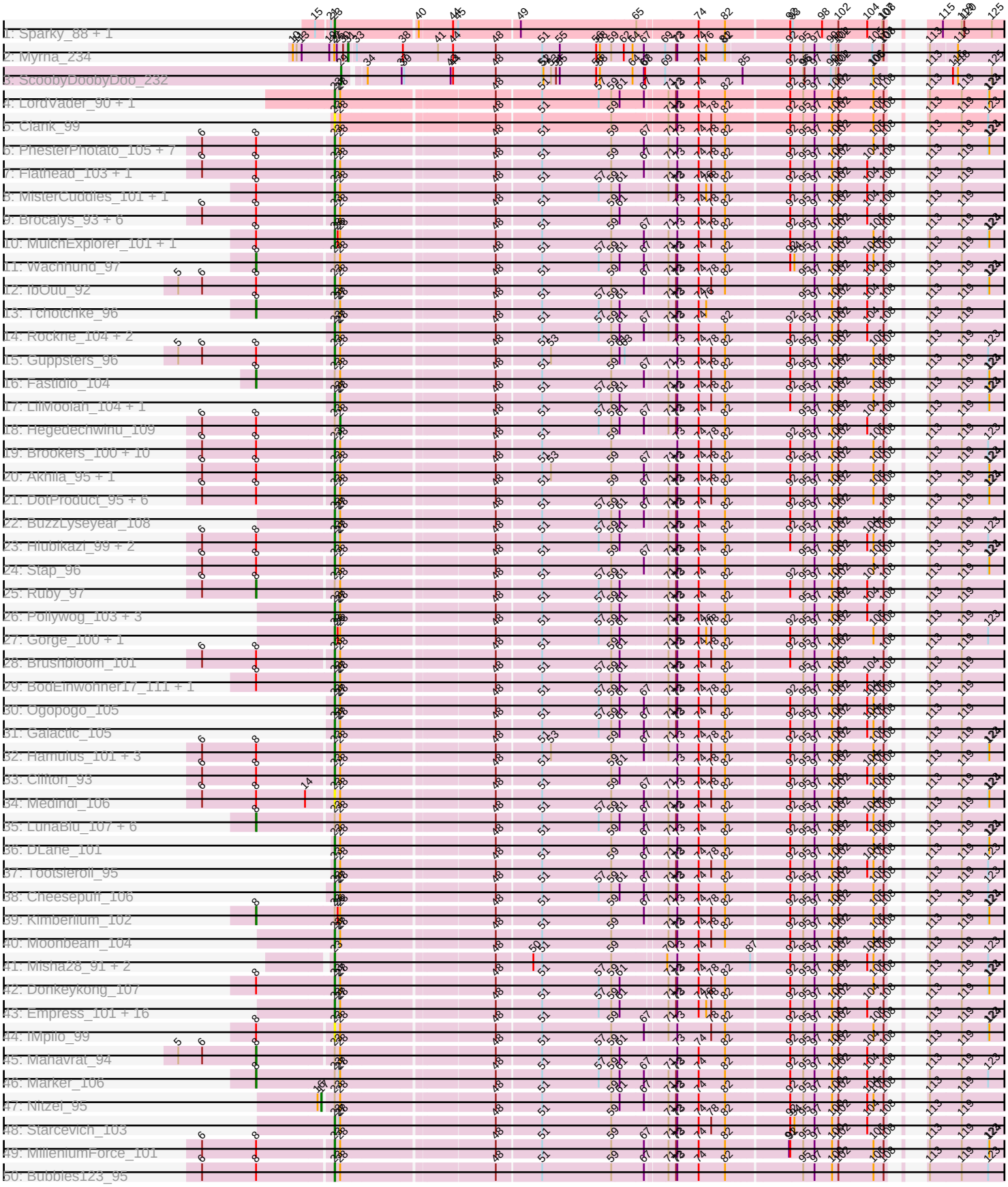
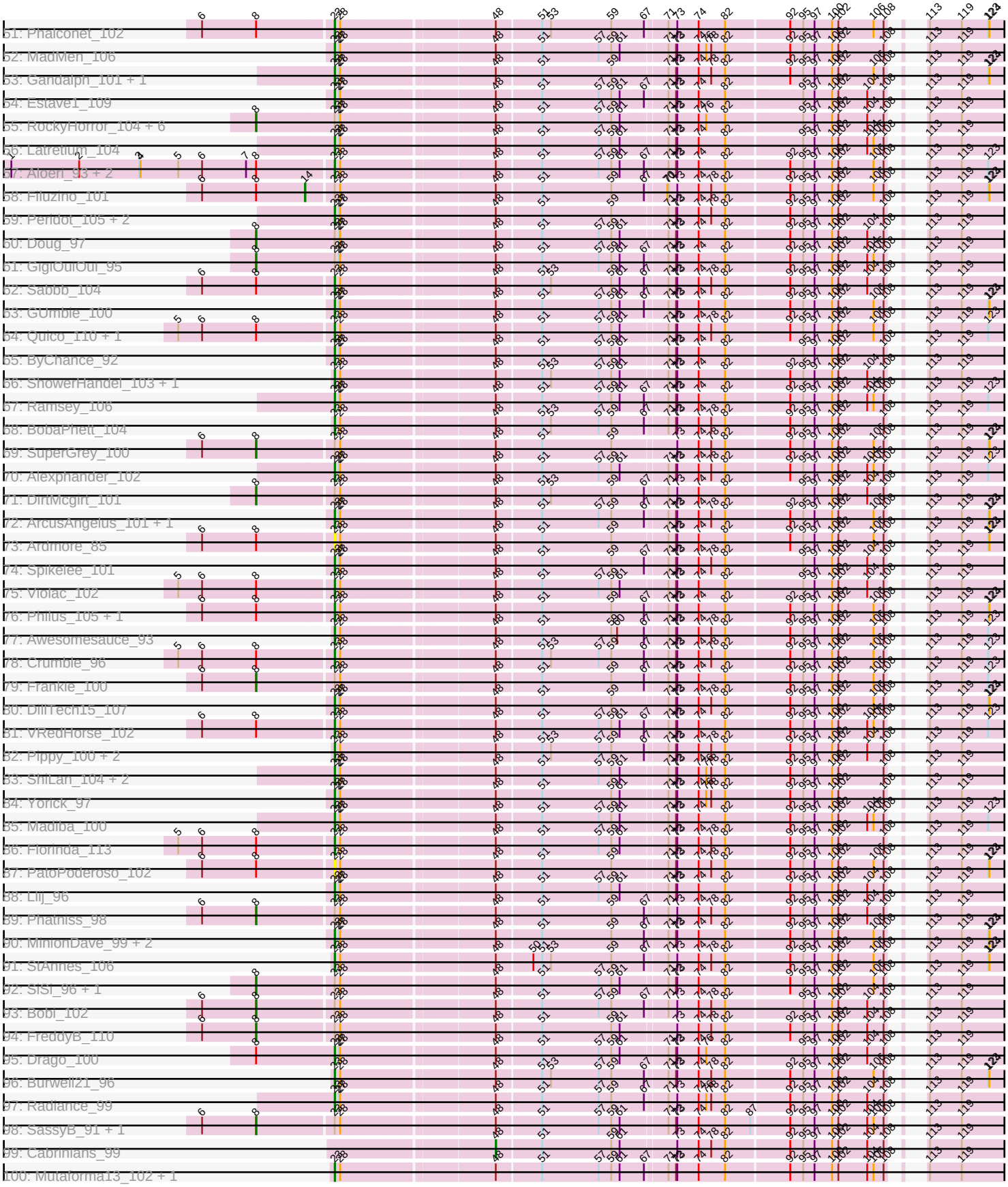
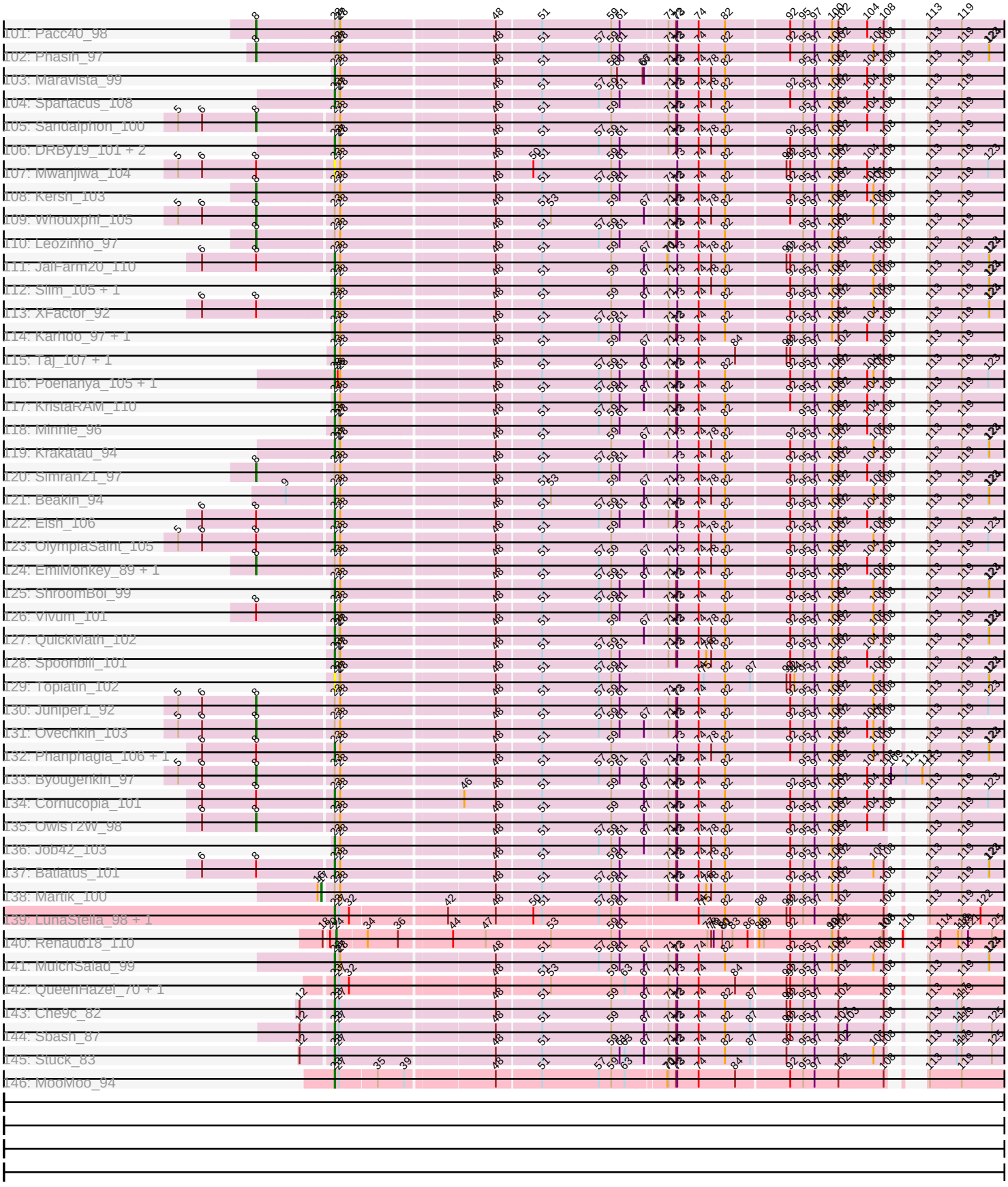
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1: Sparky_88 + 1
2: Myrna_234
3: ScoobyDoobyDoo_232
4: LordVader_90 + 1
5: Clank_99
6: PhesterPhotato_105 + 7
7: Flathead_103 + 1
8: MisterCuddles_101 + 1
9: Brocalys_93 + 6
10: MulchExplorer_101 + 1
11: Wachhund_97
12: IbOuu_92
13: Tchotchke_96
14: Rockne_104 + 2
15: Guppsters_96
16: Fastidio_104
17: LilMoolah_104 + 1
18: Hegedechwinu_109
19: Brookers_100 + 10
20: Akhila_95 + 1
21: DotProduct_95 + 6
22: BuzzLyseyear_108
23: Hlubikazi_99 + 2
24: Stap_96
25: Ruby_97
26: Pollywog_103 + 3
27: Gorge_100 + 1
28: Brushbloom_101
29: BodEinwohner17_111 + 1
30: Ogopogo_105
31: Galactic_105
32: Hamulus_101 + 3
33: Clifton_93
34: Medindi_106
35: LunaBlu_107 + 6
36: DLane_101
37: Tootsieroll_95
38: Cheesepuff_106
39: Kimberlium_102
40: Moonbeam_104
41: Misha28_91 + 2
42: Donkeykong_107
43: Empress_101 + 16
44: Mpilo_99
45: Manavrat_94
46: Marker_106
47: Nitzel_95
48: Starcevich_103
49: MillenniumForce_101
50: Bubbles123_95

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51: Phalconet_102
52: MadMen_106
53: Gandalph_101 + 1
54: Estave1_109
55: RockyHorror_104 + 6
56: Latretiuh_104
57: Aloeri_93 + 2
58: Fluzino_101
59: Peridot_105 + 2
60: Doug_97
61: GigiOuiOui_95
62: Sabbb_104
63: GOmble_100
64: Quico_110 + 1
65: ByChance_92
66: ShowerHandel_103 + 1
67: Ramsey_106
68: BobaPhett_104
69: SuperGrey_100
70: Alexphander_102
71: DirtMcgirt_101
72: ArcusAngelus_101 + 1
73: Ardmore_85
74: Spikelee_101
75: Violac_102
76: Philus_105 + 1
77: Awesomesauce_93
78: Crumble_96
79: Frankie_100
80: DilTech15_107
81: VRedHorse_102
82: Pippy_100 + 2
83: ShiLan_104 + 2
84: Yorick_97
85: Madiba_100
86: Florinda_113
87: PatoPoderoso_102
88: Lilj_96
89: Phatniss_98
90: MinionDave_99 + 2
91: StAnnes_106
92: SiSi_96 + 1
93: Bobi_102
94: FreddyB_110
95: Drago_100
96: Burwell21_96
97: Radiance_99
98: SassyB_91 + 1
99: Cabrinians_99
100: Mutaforma13_102 + 1

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I01: Pacc40_98
I02: Phasin_97
I03: Maravista_99
I04: Spartacus_108
I05: Sandalphon_100
I06: DRBy19_101 + 2
I07: Mwanjiwa_104
I08: Kersh_103
I09: Whouxphi_105
I10: Leozinho_97
I11: JalFarm20_110
I12: Slim_105 + 1
I13: XFactor_92
I14: Kamdo_97 + 1
I15: Taj_107 + 1
I16: Poenanya_105 + 1
I17: KristaRAM_110
I18: Minnie_96
I19: Krakatau_94
I20: Simran21_97
I21: Beakin_94
I22: Elsh_106
I23: OlympiaSaint_105
I24: EmiMonkey_89 + 1
I25: ShroomBoi_99
I26: Vivum_101
I27: QuickMath_102
I28: Spoonbill_101
I29: Topiatin_102
I30: Juniper1_92
I31: Ovechkin_103
I32: Phanphagia_106 + 1
I33: Byougenkin_97
I34: Cornucopia_101
I35: Owls12W_98
I36: Job42_103
I37: Ballatus_101
I38: Martik_100
I39: LunaStella_98 + 1
I40: Renaud18_110
I41: MulchSalad_99
I42: QueenHazel_70 + 1
I43: Che9c_82
I44: Sbash_87
I45: Stuck_83
I46: MooMoo_94

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 339302 Report

This analysis was run 11/14/26 on database version 672.

Pham number 339302 has 252 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Sparky_88, Farewell_89
• Track 2 : Myrna_234
• Track 3 : ScoobyDoobyDoo_232
• Track 4 : LordVader_90, Squirty_100
• Track 5 : Clank_99
• Track 6 : PhesterPhotato_105, CaptainTrips_103, Seagreen_102, Mova_103, DosHalletts_98, Melissauren88_91, Beanstalk_101, Fruitloop_99
• Track 7 : Flathead_103, Mozy_105
• Track 8 : MisterCuddles_101, Girr_100
• Track 9 : Brocalys_93, LastJedi_92, Lizziana_102, Priscilla_102, SwagPigglett_103, NormanBulbieJr_99, Koella_94
• Track 10 : MulchExplorer_101, Juice456_100
• Track 11 : Wachhund_97
• Track 12 : IbOuu_92
• Track 13 : Tchotchke_96
• Track 14 : Rockne_104, PMC_100, Plumbus_100
• Track 15 : Guppsters_96
• Track 16 : Fastidio_104
• Track 17 : LilMoolah_104, Nivrat_101
• Track 18 : Hegedechwinu_109
• Track 19 : Brookers_100, Kingsley_110, Cerasum_100, Sarma624_103, Coco12_102, Rita_101, Bipolar_103, Kenuha5_93, Velveteen_98, Emma_106, BigPhil_98
• Track 20 : Akhila_95, MilanaBonita_94
• Track 21 : DotProduct_95, SG4_102, Chuckly_98, Corium_100, Royals2015_105, Whatsapiecost_95, KingJulian_109
• Track 22 : BuzzLyseyear_108
• Track 23 : Hlubikazi_99, Mandlovu_99, Strokeseat_99
• Track 24 : Stap_96
• Track 25 : Ruby_97
• Track 26 : Pollywog_103, Fancypants_108, DaddyRickover_103, Eradicator_92
• Track 27 : Gorge_100, Saal_99
• Track 28 : Brushbloom_101
• Track 29 : BodEinwohner17_111, BlueCrab_104
• Track 30 : Ogopogo_105
• Track 31 : Galactic_105
• Track 32 : Hamulus_101, Ms6_103, Okabe_93, LittleShirley_109

• Track 33 : Clifton_93
• Track 34 : Medindi_106
• Track 35 : LunaBlu_107, Enzomatic_113, Polo2Bam_112, Ibhubesi_97, NewHope4_108, Harley_102, SeaLumen_109
• Track 36 : DLane_101
• Track 37 : Tootsieroll_95
• Track 38 : Cheesepuff_106
• Track 39 : Kimberlium_102
• Track 40 : Moonbeam_104
• Track 41 : Misha28_91, Piper2020_96, TootsiePop_91
• Track 42 : Donkeykong_107
• Track 43 : Empress_101, Daenerys_99, Dorothy_102, Sassafras_103, Inventum_99, KingMidas_101, Nimbo_93, JoeyJr_104, Leperchaun_103, PHappiness_101, Polka14_105, Deb65_94, OldBen_98, RitaG_100, RedBird_102, Geralt_94, Scottish_101
• Track 44 : IMpilo_99
• Track 45 : Mahavrat_94
• Track 46 : Marker_106
• Track 47 : Nitzel_95
• Track 48 : Starcevich_103
• Track 49 : MilleniumForce_101
• Track 50 : Bubbles123_95
• Track 51 : Phalconet_102
• Track 52 : MadMen_106
• Track 53 : Gandalph_101, EleanorGeorge_105
• Track 54 : Estave1_109
• Track 55 : RockyHorror_104, DaWorst_100, Lucia_100, Mantra_98, UncleRicky_100, Lorde_103, Enby_104
• Track 56 : Latretium_104
• Track 57 : Aloeri_93, ChickenDinner_92, DocMcStuffins_89
• Track 58 : Filuzino_101
• Track 59 : Peridot_105, Totinger_104, Rialto_106
• Track 60 : Doug_97
• Track 61 : GigiOuiOui_95
• Track 62 : Sabbb_104
• Track 63 : GUmbie_100
• Track 64 : Quico_110, Girafales_110
• Track 65 : ByChance_92
• Track 66 : ShowerHandel_103, James_105
• Track 67 : Ramsey_106
• Track 68 : BobaPhett_104
• Track 69 : SuperGrey_100
• Track 70 : Alexphander_102
• Track 71 : DirtMcgirt_101
• Track 72 : ArcusAngelus_101, Chevrolet_105
• Track 73 : Ardmore_85
• Track 74 : Spikelee_101
• Track 75 : Violac_102
• Track 76 : Philus_105, Aubs_101
• Track 77 : Awesomesauce_93
• Track 78 : Crumble_96
• Track 79 : Frankie_100
• Track 80 : DillTech15_107

• Track 81 : VRedHorse_102
• Track 82 : Pippy_100, Jennelsea_100, Zizzle_105
• Track 83 : ShiLan_104, Jarcob_104, Mattes_102
• Track 84 : Yorick_97
• Track 85 : Madiba_100
• Track 86 : Florinda_113
• Track 87 : PatoPoderoso_102
• Track 88 : Llij_96
• Track 89 : Phatniss_98
• Track 90 : MinionDave_99, Boomer_102, Hades_98
• Track 91 : StAnnes_106
• Track 92 : SiSi_96, Veteran_91
• Track 93 : Bobi_102
• Track 94 : FreddyB_110
• Track 95 : Drago_100
• Track 96 : Burwell21_96
• Track 97 : Radiance_99
• Track 98 : SassyB_91, PopTart_91
• Track 99 : Cabrinians_99
• Track 100 : Mutaforma13_102, Firehouse51_95
• Track 101 : Pacc40_98
• Track 102 : Phasih_97
• Track 103 : Maravista_99
• Track 104 : Spartacus_108
• Track 105 : Sandalphon_100
• Track 106 : DRBy19_101, TDanisky_109, Sparkdehlily_108
• Track 107 : Mwanjiwa_104
• Track 108 : Kersh_103
• Track 109 : Whouxphf_105
• Track 110 : Leozinho_97
• Track 111 : JalFarm20_110
• Track 112 : Slim_105, Emmaloid_105
• Track 113 : XFactor_92
• Track 114 : Karhdo_97, Zerg_100
• Track 115 : Taj_107, Wee_104
• Track 116 : Poenanya_105, Doomphist_106
• Track 117 : KristaRAM_110
• Track 118 : Minnie_96
• Track 119 : Krakatau_94
• Track 120 : SimranZ1_97
• Track 121 : Beakin_94
• Track 122 : Eish_106
• Track 123 : OlympiaSaint_105
• Track 124 : EmiMonkey_89, PhlipPhlop_90
• Track 125 : ShroomBoi_99
• Track 126 : Vivum_101
• Track 127 : QuickMath_102
• Track 128 : Spoonbill_101
• Track 129 : Topiatin_102
• Track 130 : Juniper1_92
• Track 131 : Ovechkin_103
• Track 132 : Phanphagia_106, Shauna1_103
• Track 133 : Byougenkin_97

• Track 134 : Cornucopia_101
• Track 135 : OwlsT2W_98
• Track 136 : Job42_103
• Track 137 : Batiatus_101
• Track 138 : Martik_100
• Track 139 : LunaStella_98, TChen_98
• Track 140 : Renaud18_110
• Track 141 : MulchSalad_99
• Track 142 : QueenHazel_70, Xula_71
• Track 143 : Che9c_82
• Track 144 : Sbash_87
• Track 145 : Stuck_83
• Track 146 : MooMoo_94

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

The start number called the most often in the published annotations is 23, it was called in 188 of the 238 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akhila_95, Alexphander_102, Aloeri_93, ArcusAngelus_101, Ardmore_85, Aubs_101, Awesomesauce_93, Batiatus_101, Beakin_94, Beanstalk_101, BigPhil_98, Bipolar_103, BlueCrab_104, BobaPhett_104, BodEinwohner17_111, Boomer_102, Brocalys_93, Brookers_100, Brushbloom_101, Bubbles123_95, Burwell21_96, BuzzLyseyear_108, ByChance_92, CaptainTrips_103, Cerasum_100, Che9c_82, Cheesepuff_106, Chevrolet_105, ChickenDinner_92, Chuckly_98, Clank_99, Clifton_93, Coco12_102, Corium_100, Cornucopia_101, Crumble_96, DLane_101, DRBy19_101, DaddyRickover_103, Daenerys_99, Deb65_94, DillTech15_107, DocMcStuffins_89, Donkeykong_107, Doomphist_106, Dorothy_102, DosHalletts_98, DotProduct_95, Drago_100, Eish_106, EleanorGeorge_105, Emma_106, Emmaloid_105, Empress_101, Eradicator_92, Estave1_109, Fancypants_108, Farewell_89, Firehouse51_95, Flathead_103, Florinda_113, Fruitloop_99, GUmbie_100, Galactic_105, Gandalph_101, Geralt_94, Girafales_110, Girr_100, Gorge_100, Guppsters_96, Hades_98, Hamulus_101, Hlubikazi_99, IMpilo_99, IbOuu_92, Inventum_99, JalFarm20_110, James_105, Jarcob_104, Jennelsea_100, Job42_103, JoeyJr_104, Juice456_100, Karhdo_97, Kenuha5_93, KingJulian_109, KingMidas_101, Kingsley_110, Koella_94, Krakatau_94, KristaRAM_110, LastJedi_92, Latretium_104, Leperchaun_103, LilMoolah_104, LittleShirley_109, Lizziana_102, Llij_96, LordVader_90, LunaStella_98, MadMen_106, Madiba_100, Mandlovu_99, Maravista_99, Mattes_102, Medindi_106, Melissauren88_91, MilanaBonita_94, MilleniumForce_101, MinionDave_99, Minnie_96, Misha28_91, MisterCuddles_101, MooMoo_94, Moonbeam_104, Mova_103, Mozy_105, Ms6_103, MulchExplorer_101, MulchSalad_99, Mutaforma13_102, Mwanjiwa_104, Nimbo_93, Nivrat_101, NormanBulbieJr_99, Ogopogo_105, Okabe_93, OldBen_98, OlympiaSaint_105, PHappiness_101, PMC_100, PatoPoderoso_102, Peridot_105, Phalconet_102, Phanphagia_106, PhesterPhotato_105, Philus_105, Piper2020_96, Pippy_100, Plumbus_100, Poenanya_105, Polka14_105, Pollywog_103, Priscilla_102, QueenHazel_70, QuickMath_102, Quico_110, Radiance_99, Ramsey_106, RedBird_102, Rialto_106, RitaG_100, Rita_101, Rockne_104, Royals2015_105,

SG4_102, Saal_99, Sabbb_104, Sarma624_103, Sassafras_103, Sbash_87, Scottish_101, Seagreen_102, Shauna1_103, ShiLan_104, ShowerHandel_103, ShroomBoi_99, Slim_105, Sparkdehlily_108, Sparky_88, Spartacus_108, Spikelee_101, Spoonbill_101, Squirty_100, StAnnes_106, Stap_96, Starcevich_103, Strokeseat_99, Stuck_83, SwagPigglett_103, TChen_98, TDanisky_109, Taj_107, TootsiePop_91, Tootsieroll_95, Topiatin_102, Totinger_104, VRedHorse_102, Velveteen_98, Violac_102, Vivum_101, Wee_104, Whatsapiecost_95, XFactor_92, Xula_71, Yorick_97, Zerg_100, Zizzle_105,

Genes that have the "Most Annotated" start but do not call it:
• Bobi_102, Byougenkin_97, DaWorst_100, DirtMcgirt_101, Doug_97, EmiMonkey_89, Enby_104, Enzomatic_113, Fastidio_104, Filuzino_101, Frankie_100, FreddyB_110, GigiOuiOui_95, Harley_102, Hegedechwinu_109, Ibhubesi_97, Juniper1_92, Kersh_103, Kimberlium_102, Leozinho_97, Lorde_103, Lucia_100, LunaBlu_107, Mahavrat_94, Mantra_98, Marker_106, Martik_100, NewHope4_108, Nitzel_95, Ovechkin_103, OwlsT2W_98, Pacc40_98, Phasih_97, Phatniss_98, PhlipPhlop_90, Polo2Bam_112, PopTart_91, RockyHorror_104, Ruby_97, Sandalphon_100, SassyB_91, SeaLumen_109, SiSi_96, SimranZ1_97, SuperGrey_100, Tchotchke_96, UncleRicky_100, Veteran_91, Wachhund_97, Whouxphf_105,

Genes that do not have the "Most Annotated" start:
• Cabrinians_99, Myrna_234, Renaud18_110, ScoobyDoobyDoo_232,

Summary by start number:

Start 8:
• Found in 134 of 252 (53.2%) of genes in pham
• Manual Annotations of this start: 42 of 238
• Called 34.3% of time when present
• Phage (with cluster) where this start called: Bobi_102 (F1), Byougenkin_97 (F1), DaWorst_100 (F1), DirtMcgirt_101 (F1), Doug_97 (F1), EmiMonkey_89 (F1), Enby_104 (F1), Enzomatic_113 (F1), Fastidio_104 (F1), Frankie_100 (F1), FreddyB_110 (F1), GigiOuiOui_95 (F1), Harley_102 (F1), Ibhubesi_97 (F1), Juniper1_92 (F1), Kersh_103 (F1), Kimberlium_102 (F1), Leozinho_97 (F1), Lorde_103 (F1), Lucia_100 (F1), LunaBlu_107 (F1), Mahavrat_94 (F1), Mantra_98 (F1), Marker_106 (F1), NewHope4_108 (F1), Ovechkin_103 (F1), OwlsT2W_98 (F1), Pacc40_98 (F1), Phasih_97 (F1), Phatniss_98 (F1), PhlipPhlop_90 (F1), Polo2Bam_112 (F1), PopTart_91 (F1), RockyHorror_104 (F1), Ruby_97 (F1), Sandalphon_100 (F1), SassyB_91 (F1), SeaLumen_109 (F1), SiSi_96 (F1), SimranZ1_97 (F1), SuperGrey_100 (F1), Tchotchke_96 (F1), UncleRicky_100 (F1), Veteran_91 (F1), Wachhund_97 (F1), Whouxphf_105 (F1),

Start 14:
• Found in 2 of 252 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 238
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Filuzino_101 (F1),

Start 17:
• Found in 2 of 252 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 238
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Martik_100 (F1), Nitzel_95 (F1),

Start 23:
• Found in 248 of 252 (98.4%) of genes in pham
• Manual Annotations of this start: 188 of 238
• Called 79.8% of time when present
• Phage (with cluster) where this start called: Akhila_95 (F1), Alexphander_102 (F1), Aloeri_93 (F1), ArcusAngelus_101 (F1), Ardmore_85 (F1), Aubs_101 (F1), Awesomesauce_93 (F1), Batiatus_101 (F1), Beakin_94 (F1), Beanstalk_101 (F1), BigPhil_98 (F1), Bipolar_103 (F1), BlueCrab_104 (F1), BobaPhett_104 (F1), BodEinwohner17_111 (F1), Boomer_102 (F1), Brocalys_93 (F1), Brookers_100 (F1), Brushbloom_101 (F1), Bubbles123_95 (F1), Burwell21_96 (F1), BuzzLyseyear_108 (F1), ByChance_92 (F1), CaptainTrips_103 (F1), Cerasum_100 (F1), Che9c_82 (I2), Cheesepuff_106 (F1), Chevrolet_105 (F1), ChickenDinner_92 (F1), Chuckly_98 (F1), Clank_99 (F), Clifton_93 (F1), Coco12_102 (F1), Corium_100 (F1), Cornucopia_101 (F1), Crumble_96 (F1), DLane_101 (F1), DRBy19_101 (F1), DaddyRickover_103 (F1), Daenerys_99 (F1), Deb65_94 (F1), DillTech15_107 (F1), DocMcStuffins_89 (F1), Donkeykong_107 (F1), Doomphist_106 (F1), Dorothy_102 (F1), DosHalletts_98 (F1), DotProduct_95 (F1), Drago_100 (F1), Eish_106 (F1), EleanorGeorge_105 (F1), Emma_106 (F1), Emmaloid_105 (F1), Empress_101 (F1), Eradicator_92 (F1), Estave1_109 (F1), Fancypants_108 (F1), Farewell_89 (AF), Firehouse51_95 (F1), Flathead_103 (F1), Florinda_113 (F1), Fruitloop_99 (F1), GUmbie_100 (F1), Galactic_105 (F1), Gandalph_101 (F1), Geralt_94 (F1), Girafales_110 (F1), Girr_100 (F1), Gorge_100 (F1), Guppsters_96 (F1), Hades_98 (F1), Hamulus_101 (F1), Hlubikazi_99 (F1), IMpilo_99 (F1), IbOuu_92 (F1), Inventum_99 (F1), JalFarm20_110 (F1), James_105 (F1), Jarcob_104 (F1), Jennelsea_100 (F1), Job42_103 (F1), JoeyJr_104 (F1), Juice456_100 (F1), Karhdo_97 (F1), Kenuha5_93 (F1), KingJulian_109 (F1), KingMidas_101 (F1), Kingsley_110 (F1), Koella_94 (F1), Krakatau_94 (F1), KristaRAM_110 (F1), LastJedi_92 (F1), Latretium_104 (F1), Leperchaun_103 (F1), LilMoolah_104 (F1), LittleShirley_109 (F1), Lizziana_102 (F1), Llij_96 (F1), LordVader_90 (F), LunaStella_98 (F4), MadMen_106 (F1), Madiba_100 (F1), Mandlovu_99 (F1), Maravista_99 (F1), Mattes_102 (F1), Medindi_106 (F1), Melissauren88_91 (F1), MilanaBonita_94 (F1), MilleniumForce_101 (F1), MinionDave_99 (F1), Minnie_96 (F1), Misha28_91 (F1), MisterCuddles_101 (F1), MooMoo_94 (singleton), Moonbeam_104 (F1), Mova_103 (F1), Mozy_105 (F1), Ms6_103 (F1), MulchExplorer_101 (F1), MulchSalad_99 (F7), Mutaforma13_102 (F1), Mwanjiwa_104 (F1), Nimbo_93 (F1), Nivrat_101 (F1), NormanBulbieJr_99 (F1), Ogopogo_105 (F1), Okabe_93 (F8), OldBen_98 (F1), OlympiaSaint_105 (F1), PHappiness_101 (F1), PMC_100 (F1), PatoPoderoso_102 (F1), Peridot_105 (F1), Phalconet_102 (F1), Phanphagia_106 (F1), PhesterPhotato_105 (F1), Philus_105 (F1), Piper2020_96 (F1), Pippy_100 (F1), Plumbus_100 (F1), Poenanya_105 (F1), Polka14_105 (F1), Pollywog_103 (F1), Priscilla_102 (F1), QueenHazel_70 (I1), QuickMath_102 (F1), Quico_110 (F1), Radiance_99 (F1), Ramsey_106 (F1), RedBird_102 (F1), Rialto_106 (F1), RitaG_100 (F1), Rita_101 (F1), Rockne_104 (F1), Royals2015_105 (F1), SG4_102 (F1), Saal_99 (F1), Sabbb_104 (F1), Sarma624_103 (F1), Sassafras_103 (F1), Sbash_87 (I2), Scottish_101 (F1), Seagreen_102 (F1), Shauna1_103 (F1), ShiLan_104 (F1), ShowerHandel_103 (F1), ShroomBoi_99 (F1), Slim_105 (F1), Sparkdehlily_108 (F1), Sparky_88 (AF), Spartacus_108 (F1), Spikelee_101 (F1), Spoonbill_101 (F1), Squirty_100 (F3), StAnnes_106 (F1), Stap_96 (F1), Starcevich_103 (F1), Strokeseat_99 (F1), Stuck_83 (I2), SwagPigglett_103 (F1), TChen_98 (F4), TDanisky_109 (F1), Taj_107 (F1), TootsiePop_91 (F1), Tootsieroll_95 (F1), Topiatin_102 (F1), Totinger_104 (F1), VRedHorse_102 (F1), Velveteen_98 (F1), Violac_102 (F1), Vivum_101 (F1),

Wee_104 (F1), Whatsapiecost_95 (F1), XFactor_92 (F1), Xula_71 (I1), Yorick_97 (F1), Zerg_100 (F1), Zizzle_105 (F1),

Start 24:
• Found in 1 of 252 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 238
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Renaud18_110 (F4),

Start 28:
• Found in 235 of 252 (93.3%) of genes in pham
• Manual Annotations of this start: 1 of 238
• Called 0.4% of time when present
• Phage (with cluster) where this start called: Hegedechwinu_109 (F1),

Start 29:
• Found in 1 of 252 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 238
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ScoobyDoobyDoo_232 (C2),

Start 31:
• Found in 1 of 252 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 238
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Myrna_234 (C2),

Start 48:
• Found in 249 of 252 (98.8%) of genes in pham
• Manual Annotations of this start: 1 of 238
• Called 0.4% of time when present
• Phage (with cluster) where this start called: Cabrinians_99 (F1),

Summary by clusters:

There are 11 clusters represented in this pham: F1, singleton, F7, F4, F, I1, AF, F8, F3, C2, I2,

Info for manual annotations of cluster AF:
•Start number 23 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster C2:
•Start number 29 was manually annotated 1 time for cluster C2.
•Start number 31 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster F:
•Start number 23 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:
•Start number 8 was manually annotated 42 times for cluster F1.
•Start number 14 was manually annotated 1 time for cluster F1.
•Start number 17 was manually annotated 2 times for cluster F1.
•Start number 23 was manually annotated 175 times for cluster F1.

•Start number 28 was manually annotated 1 time for cluster F1.
•Start number 48 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F3:
•Start number 23 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:
•Start number 23 was manually annotated 2 times for cluster F4.
•Start number 24 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F7:
•Start number 23 was manually annotated 1 time for cluster F7.

Info for manual annotations of cluster I1:
•Start number 23 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 23 was manually annotated 3 times for cluster I2.

Gene Information:

Gene: Akhila_95 Start: 53042, Stop: 54478, Start Num: 23
Candidate Starts for Akhila_95:
(6, 52739), (Start: 8 @52868 has 42 MA's), (Start: 23 @53042 has 188 MA's), (Start: 28 @53054 has 1 MA's), (Start: 48 @53393 has 1 MA's), (51, 53495), (53, 53516), (59, 53660), (67, 53735), (71, 53780), (72, 53798), (73, 53801), (74, 53852), (78, 53882), (82, 53915), (92, 54047), (95, 54077), (97, 54101), (100, 54143), (102, 54158), (106, 54239), (108, 54263), (113, 54281), (119, 54356), (123, 54419), (124, 54422),

Gene: Alexphander_102 Start: 55386, Stop: 56825, Start Num: 23
Candidate Starts for Alexphander_102:
(Start: 23 @55386 has 188 MA's), (27, 55395), (Start: 28 @55398 has 1 MA's), (Start: 48 @55740 has 1 MA's), (51, 55842), (57, 55977), (59, 56007), (61, 56025), (71, 56127), (72, 56145), (73, 56148), (74, 56199), (78, 56229), (82, 56262), (92, 56394), (95, 56424), (97, 56448), (100, 56490), (102, 56505), (104, 56571), (106, 56586), (108, 56610), (113, 56628), (119, 56703), (123, 56766),

Gene: Aloeri_93 Start: 54180, Stop: 55616, Start Num: 23
Candidate Starts for Aloeri_93:
(1, 53421), (2, 53583), (3, 53727), (4, 53730), (5, 53820), (6, 53877), (7, 53982), (Start: 8 @54006 has 42 MA's), (Start: 23 @54180 has 188 MA's), (Start: 28 @54192 has 1 MA's), (Start: 48 @54531 has 1 MA's), (51, 54633), (57, 54768), (59, 54798), (61, 54816), (67, 54873), (71, 54918), (72, 54936), (73, 54939), (74, 54990), (82, 55053), (92, 55185), (95, 55215), (97, 55239), (100, 55281), (102, 55296), (106, 55377), (108, 55401), (113, 55419), (119, 55494), (123, 55557),

Gene: ArcusAngelus_101 Start: 55357, Stop: 56796, Start Num: 23
Candidate Starts for ArcusAngelus_101:
(Start: 23 @55357 has 188 MA's), (27, 55366), (Start: 28 @55369 has 1 MA's), (Start: 48 @55711 has 1 MA's), (51, 55813), (57, 55948), (59, 55978), (67, 56053), (71, 56098), (72, 56116), (73, 56119), (74, 56170), (78, 56200), (82, 56233), (92, 56365), (95, 56395), (97, 56419), (100, 56461), (102, 56476), (106, 56557), (108, 56581), (113, 56599), (119, 56674), (123, 56737), (124, 56740),

Gene: Ardmore_85 Start: 48931, Stop: 50367, Start Num: 23
Candidate Starts for Ardmore_85:
(6, 48628), (Start: 8 @48757 has 42 MA's), (Start: 23 @48931 has 188 MA's), (Start: 28 @48943 has 1 MA's), (Start: 48 @49282 has 1 MA's), (51, 49384), (59, 49549), (71, 49669), (72, 49687), (73, 49690), (74, 49741), (82, 49804), (92, 49936), (95, 49966), (97, 49990), (100, 50032), (102, 50047), (106, 50128), (108, 50152), (113, 50170), (119, 50245), (123, 50308), (124, 50311),

Gene: Aubs_101 Start: 55933, Stop: 57369, Start Num: 23
Candidate Starts for Aubs_101:
(6, 55630), (Start: 8 @55759 has 42 MA's), (Start: 23 @55933 has 188 MA's), (Start: 28 @55945 has 1 MA's), (Start: 48 @56284 has 1 MA's), (51, 56386), (59, 56551), (67, 56626), (71, 56671), (72, 56689), (73, 56692), (74, 56743), (82, 56806), (92, 56938), (95, 56968), (97, 56992), (100, 57034), (102, 57049), (106, 57130), (108, 57154), (113, 57172), (119, 57247), (123, 57310), (124, 57313),

Gene: Awesomesauce_93 Start: 54705, Stop: 56141, Start Num: 23
Candidate Starts for Awesomesauce_93:
(Start: 23 @54705 has 188 MA's), (Start: 28 @54717 has 1 MA's), (Start: 48 @55056 has 1 MA's), (51, 55158), (59, 55323), (60, 55335), (67, 55398), (71, 55443), (72, 55461), (73, 55464), (74, 55515), (78, 55545), (82, 55578), (92, 55710), (95, 55740), (97, 55764), (100, 55806), (102, 55821), (106, 55902), (108, 55926), (113, 55944), (119, 56019), (123, 56082),

Gene: Batiatus_101 Start: 54481, Stop: 55917, Start Num: 23
Candidate Starts for Batiatus_101:
(6, 54178), (Start: 8 @54307 has 42 MA's), (Start: 23 @54481 has 188 MA's), (Start: 28 @54493 has 1 MA's), (Start: 48 @54832 has 1 MA's), (51, 54934), (59, 55099), (61, 55117), (71, 55219), (72, 55237), (73, 55240), (74, 55291), (78, 55321), (82, 55354), (92, 55486), (95, 55516), (97, 55540), (100, 55582), (102, 55597), (106, 55678), (108, 55702), (113, 55720), (119, 55795), (123, 55858), (124, 55861),

Gene: Beakin_94 Start: 51744, Stop: 53180, Start Num: 23
Candidate Starts for Beakin_94:
(9, 51642), (Start: 23 @51744 has 188 MA's), (Start: 28 @51756 has 1 MA's), (Start: 48 @52095 has 1 MA's), (51, 52197), (53, 52218), (59, 52362), (67, 52437), (71, 52482), (73, 52503), (74, 52554), (78, 52584), (82, 52617), (92, 52749), (95, 52779), (97, 52803), (100, 52845), (102, 52860), (106, 52941), (108, 52965), (113, 52983), (119, 53058), (123, 53121), (124, 53124),

Gene: Beanstalk_101 Start: 53631, Stop: 55067, Start Num: 23
Candidate Starts for Beanstalk_101:
(6, 53328), (Start: 8 @53457 has 42 MA's), (Start: 23 @53631 has 188 MA's), (Start: 28 @53643 has 1 MA's), (Start: 48 @53982 has 1 MA's), (51, 54084), (59, 54249), (67, 54324), (71, 54369), (73, 54390), (74, 54441), (78, 54471), (82, 54504), (92, 54636), (95, 54666), (97, 54690), (100, 54732), (102, 54747), (106, 54828), (108, 54852), (113, 54870), (119, 54945), (123, 55008), (124, 55011),

Gene: BigPhil_98 Start: 51273, Stop: 52709, Start Num: 23
Candidate Starts for BigPhil_98:
(6, 50970), (Start: 8 @51099 has 42 MA's), (Start: 23 @51273 has 188 MA's), (Start: 28 @51285 has 1 MA's), (Start: 48 @51624 has 1 MA's), (51, 51726), (59, 51891), (73, 52032), (74, 52083), (78, 52113), (82, 52146), (92, 52278), (95, 52308), (97, 52332), (100, 52374), (102, 52389), (106, 52470), (108, 52494), (113, 52512), (119, 52587), (123, 52650),

Gene: Bipolar_103 Start: 56250, Stop: 57686, Start Num: 23
Candidate Starts for Bipolar_103:

(6, 55947), (Start: 8 @56076 has 42 MA's), (Start: 23 @56250 has 188 MA's), (Start: 28 @56262 has 1 MA's), (Start: 48 @56601 has 1 MA's), (51, 56703), (59, 56868), (73, 57009), (74, 57060), (78, 57090), (82, 57123), (92, 57255), (95, 57285), (97, 57309), (100, 57351), (102, 57366), (106, 57447), (108, 57471), (113, 57489), (119, 57564), (123, 57627),

Gene: BlueCrab_104 Start: 55862, Stop: 57301, Start Num: 23
Candidate Starts for BlueCrab_104:
(Start: 8 @55679 has 42 MA's), (Start: 23 @55862 has 188 MA's), (27, 55871), (Start: 28 @55874 has 1 MA's), (Start: 48 @56216 has 1 MA's), (51, 56318), (57, 56453), (59, 56483), (61, 56501), (71, 56603), (72, 56621), (73, 56624), (74, 56675), (82, 56738), (95, 56900), (97, 56924), (100, 56966), (102, 56981), (104, 57047), (108, 57086), (113, 57104), (119, 57179),

Gene: BobaPhett_104 Start: 56828, Stop: 58264, Start Num: 23
Candidate Starts for BobaPhett_104:
(Start: 23 @56828 has 188 MA's), (Start: 28 @56840 has 1 MA's), (Start: 48 @57179 has 1 MA's), (51, 57281), (53, 57302), (57, 57416), (59, 57446), (67, 57521), (71, 57566), (72, 57584), (73, 57587), (74, 57638), (78, 57668), (82, 57701), (92, 57833), (95, 57863), (97, 57887), (100, 57929), (102, 57944), (108, 58049), (113, 58067), (119, 58142),

Gene: Bobi_102 Start: 55781, Stop: 57391, Start Num: 8
Candidate Starts for Bobi_102:
(6, 55652), (Start: 8 @55781 has 42 MA's), (Start: 23 @55955 has 188 MA's), (Start: 28 @55967 has 1 MA's), (Start: 48 @56306 has 1 MA's), (51, 56408), (57, 56543), (59, 56573), (67, 56648), (71, 56693), (73, 56714), (74, 56765), (78, 56795), (82, 56828), (95, 56990), (97, 57014), (100, 57056), (102, 57071), (104, 57137), (108, 57176), (113, 57194), (119, 57269),

Gene: BodEinwohner17_111 Start: 56918, Stop: 58357, Start Num: 23
Candidate Starts for BodEinwohner17_111:
(Start: 8 @56735 has 42 MA's), (Start: 23 @56918 has 188 MA's), (27, 56927), (Start: 28 @56930 has 1 MA's), (Start: 48 @57272 has 1 MA's), (51, 57374), (57, 57509), (59, 57539), (61, 57557), (71, 57659), (72, 57677), (73, 57680), (74, 57731), (82, 57794), (95, 57956), (97, 57980), (100, 58022), (102, 58037), (104, 58103), (108, 58142), (113, 58160), (119, 58235),

Gene: Boomer_102 Start: 55216, Stop: 56655, Start Num: 23
Candidate Starts for Boomer_102:
(Start: 23 @55216 has 188 MA's), (27, 55225), (Start: 28 @55228 has 1 MA's), (Start: 48 @55570 has 1 MA's), (51, 55672), (59, 55837), (67, 55912), (71, 55957), (72, 55975), (73, 55978), (74, 56029), (82, 56092), (92, 56224), (95, 56254), (97, 56278), (100, 56320), (102, 56335), (106, 56416), (108, 56440), (113, 56458), (119, 56533), (123, 56596), (124, 56599),

Gene: Brocalys_93 Start: 52018, Stop: 53454, Start Num: 23
Candidate Starts for Brocalys_93:
(6, 51715), (Start: 8 @51844 has 42 MA's), (Start: 23 @52018 has 188 MA's), (Start: 28 @52030 has 1 MA's), (Start: 48 @52369 has 1 MA's), (51, 52471), (59, 52636), (61, 52654), (73, 52777), (74, 52828), (78, 52858), (82, 52891), (92, 53023), (95, 53053), (97, 53077), (100, 53119), (102, 53134), (104, 53200), (108, 53239), (113, 53257), (119, 53332),

Gene: Brookers_100 Start: 54224, Stop: 55660, Start Num: 23
Candidate Starts for Brookers_100:
(6, 53921), (Start: 8 @54050 has 42 MA's), (Start: 23 @54224 has 188 MA's), (Start: 28 @54236 has 1 MA's), (Start: 48 @54575 has 1 MA's), (51, 54677), (59, 54842), (73, 54983), (74, 55034), (78, 55064), (82, 55097), (92, 55229), (95, 55259), (97, 55283), (100, 55325), (102, 55340), (106, 55421), (108, 55445), (113, 55463), (119, 55538), (123, 55601),

Gene: Brushbloom_101 Start: 55525, Stop: 56961, Start Num: 23
Candidate Starts for Brushbloom_101:
(6, 55222), (Start: 8 @55351 has 42 MA's), (Start: 23 @55525 has 188 MA's), (Start: 28 @55537 has 1 MA's), (Start: 48 @55876 has 1 MA's), (51, 55978), (59, 56143), (61, 56161), (71, 56263), (72, 56281), (73, 56284), (74, 56335), (78, 56365), (82, 56398), (92, 56530), (95, 56560), (97, 56584), (100, 56626), (102, 56641), (108, 56746), (113, 56764), (119, 56839),

Gene: Bubbles123_95 Start: 54293, Stop: 55729, Start Num: 23
Candidate Starts for Bubbles123_95:
(6, 53990), (Start: 8 @54119 has 42 MA's), (Start: 23 @54293 has 188 MA's), (Start: 28 @54305 has 1 MA's), (Start: 48 @54644 has 1 MA's), (51, 54746), (59, 54911), (67, 54986), (71, 55031), (72, 55049), (73, 55052), (74, 55103), (82, 55166), (95, 55328), (97, 55352), (100, 55394), (102, 55409), (106, 55490), (108, 55514), (113, 55532), (119, 55607), (123, 55670),

Gene: Burwell21_96 Start: 54593, Stop: 56029, Start Num: 23
Candidate Starts for Burwell21_96:
(Start: 23 @54593 has 188 MA's), (Start: 28 @54605 has 1 MA's), (Start: 48 @54944 has 1 MA's), (51, 55046), (53, 55067), (57, 55181), (59, 55211), (67, 55286), (71, 55331), (72, 55349), (73, 55352), (74, 55403), (78, 55433), (82, 55466), (92, 55598), (95, 55628), (97, 55652), (100, 55694), (102, 55709), (106, 55790), (108, 55814), (113, 55832), (119, 55907), (123, 55970), (124, 55973),

Gene: BuzzLyseyear_108 Start: 57074, Stop: 58510, Start Num: 23
Candidate Starts for BuzzLyseyear_108:
(Start: 23 @57074 has 188 MA's), (27, 57080), (Start: 28 @57083 has 1 MA's), (Start: 48 @57425 has 1 MA's), (51, 57527), (57, 57662), (59, 57692), (61, 57710), (67, 57767), (71, 57812), (72, 57830), (73, 57833), (74, 57884), (82, 57947), (92, 58079), (95, 58109), (97, 58133), (100, 58175), (102, 58190), (108, 58295), (113, 58313), (119, 58388),

Gene: ByChance_92 Start: 50387, Stop: 51826, Start Num: 23
Candidate Starts for ByChance_92:
(Start: 23 @50387 has 188 MA's), (27, 50396), (Start: 28 @50399 has 1 MA's), (Start: 48 @50741 has 1 MA's), (51, 50843), (57, 50978), (59, 51008), (61, 51026), (71, 51128), (72, 51146), (73, 51149), (74, 51200), (82, 51263), (95, 51425), (97, 51449), (100, 51491), (102, 51506), (108, 51611), (113, 51629), (119, 51704),

Gene: Byougenkin_97 Start: 51166, Stop: 52869, Start Num: 8
Candidate Starts for Byougenkin_97:
(5, 50980), (6, 51037), (Start: 8 @51166 has 42 MA's), (Start: 23 @51340 has 188 MA's), (Start: 28 @51352 has 1 MA's), (Start: 48 @51691 has 1 MA's), (51, 51793), (57, 51928), (59, 51958), (61, 51976), (67, 52033), (71, 52078), (72, 52096), (73, 52099), (74, 52150), (82, 52213), (95, 52375), (97, 52399), (100, 52441), (102, 52456), (104, 52522), (108, 52561), (109, 52579), (111, 52615), (112, 52654), (113, 52672), (119, 52747),

Gene: Cabrinians_99 Start: 54289, Stop: 55374, Start Num: 48
Candidate Starts for Cabrinians_99:
(Start: 48 @54289 has 1 MA's), (51, 54391), (59, 54556), (61, 54574), (73, 54697), (74, 54748), (78, 54778), (82, 54811), (92, 54943), (95, 54973), (97, 54997), (100, 55039), (102, 55054), (104, 55120), (108, 55159), (113, 55177), (119, 55252),

Gene: CaptainTrips_103 Start: 54119, Stop: 55555, Start Num: 23
Candidate Starts for CaptainTrips_103:

(6, 53816), (Start: 8 @53945 has 42 MA's), (Start: 23 @54119 has 188 MA's), (Start: 28 @54131 has 1 MA's), (Start: 48 @54470 has 1 MA's), (51, 54572), (59, 54737), (67, 54812), (71, 54857), (73, 54878), (74, 54929), (78, 54959), (82, 54992), (92, 55124), (95, 55154), (97, 55178), (100, 55220), (102, 55235), (106, 55316), (108, 55340), (113, 55358), (119, 55433), (123, 55496), (124, 55499),

Gene: Cerasum_100 Start: 51291, Stop: 52727, Start Num: 23
Candidate Starts for Cerasum_100:
(6, 50988), (Start: 8 @51117 has 42 MA's), (Start: 23 @51291 has 188 MA's), (Start: 28 @51303 has 1 MA's), (Start: 48 @51642 has 1 MA's), (51, 51744), (59, 51909), (73, 52050), (74, 52101), (78, 52131), (82, 52164), (92, 52296), (95, 52326), (97, 52350), (100, 52392), (102, 52407), (106, 52488), (108, 52512), (113, 52530), (119, 52605), (123, 52668),

Gene: Che9c_82 Start: 54573, Stop: 56009, Start Num: 23
Candidate Starts for Che9c_82:
(12, 54507), (Start: 23 @54573 has 188 MA's), (27, 54582), (Start: 48 @54924 has 1 MA's), (51, 55026), (59, 55191), (67, 55266), (71, 55311), (72, 55329), (73, 55332), (74, 55383), (82, 55446), (87, 55494), (90, 55569), (92, 55578), (95, 55608), (97, 55632), (102, 55689), (108, 55794), (113, 55812), (117, 55875), (119, 55887),

Gene: Cheesepuff_106 Start: 54311, Stop: 55750, Start Num: 23
Candidate Starts for Cheesepuff_106:
(Start: 23 @54311 has 188 MA's), (27, 54320), (Start: 28 @54323 has 1 MA's), (Start: 48 @54665 has 1 MA's), (51, 54767), (57, 54902), (59, 54932), (61, 54950), (67, 55007), (71, 55052), (72, 55070), (73, 55073), (74, 55124), (82, 55187), (92, 55319), (95, 55349), (97, 55373), (100, 55415), (102, 55430), (106, 55511), (108, 55535), (113, 55553), (119, 55628), (123, 55691),

Gene: Chevrolet_105 Start: 55358, Stop: 56797, Start Num: 23
Candidate Starts for Chevrolet_105:
(Start: 23 @55358 has 188 MA's), (27, 55367), (Start: 28 @55370 has 1 MA's), (Start: 48 @55712 has 1 MA's), (51, 55814), (57, 55949), (59, 55979), (67, 56054), (71, 56099), (72, 56117), (73, 56120), (74, 56171), (78, 56201), (82, 56234), (92, 56366), (95, 56396), (97, 56420), (100, 56462), (102, 56477), (106, 56558), (108, 56582), (113, 56600), (119, 56675), (123, 56738), (124, 56741),

Gene: ChickenDinner_92 Start: 54180, Stop: 55616, Start Num: 23
Candidate Starts for ChickenDinner_92:
(1, 53421), (2, 53583), (3, 53727), (4, 53730), (5, 53820), (6, 53877), (7, 53982), (Start: 8 @54006 has 42 MA's), (Start: 23 @54180 has 188 MA's), (Start: 28 @54192 has 1 MA's), (Start: 48 @54531 has 1 MA's), (51, 54633), (57, 54768), (59, 54798), (61, 54816), (67, 54873), (71, 54918), (72, 54936), (73, 54939), (74, 54990), (82, 55053), (92, 55185), (95, 55215), (97, 55239), (100, 55281), (102, 55296), (106, 55377), (108, 55401), (113, 55419), (119, 55494), (123, 55557),

Gene: Chuckly_98 Start: 51161, Stop: 52597, Start Num: 23
Candidate Starts for Chuckly_98:
(6, 50858), (Start: 8 @50987 has 42 MA's), (Start: 23 @51161 has 188 MA's), (Start: 28 @51173 has 1 MA's), (Start: 48 @51512 has 1 MA's), (51, 51614), (59, 51779), (67, 51854), (71, 51899), (72, 51917), (73, 51920), (74, 51971), (78, 52001), (82, 52034), (92, 52166), (95, 52196), (97, 52220), (100, 52262), (102, 52277), (106, 52358), (108, 52382), (113, 52400), (119, 52475), (123, 52538), (124, 52541),

Gene: Clank_99 Start: 52488, Stop: 53924, Start Num: 23
Candidate Starts for Clank_99:
(Start: 23 @52488 has 188 MA's), (Start: 28 @52500 has 1 MA's), (Start: 48 @52839 has 1 MA's), (51, 52941), (59, 53106), (71, 53226), (72, 53244), (73, 53247), (74, 53298), (78, 53328), (82, 53361), (92, 53493), (95, 53523), (97, 53547), (100, 53589), (102, 53604), (106, 53685), (108, 53709), (113,

53727), (119, 53802), (123, 53865),

Gene: Clifton_93 Start: 52993, Stop: 54429, Start Num: 23
Candidate Starts for Clifton_93:
(6, 52690), (Start: 8 @52819 has 42 MA's), (Start: 23 @52993 has 188 MA's), (Start: 28 @53005 has 1 MA's), (Start: 48 @53344 has 1 MA's), (51, 53446), (59, 53611), (61, 53629), (73, 53752), (74, 53803), (78, 53833), (82, 53866), (92, 53998), (95, 54028), (97, 54052), (100, 54094), (102, 54109), (104, 54175), (106, 54190), (108, 54214), (113, 54232), (119, 54307),

Gene: Coco12_102 Start: 55348, Stop: 56784, Start Num: 23
Candidate Starts for Coco12_102:
(6, 55045), (Start: 8 @55174 has 42 MA's), (Start: 23 @55348 has 188 MA's), (Start: 28 @55360 has 1 MA's), (Start: 48 @55699 has 1 MA's), (51, 55801), (59, 55966), (73, 56107), (74, 56158), (78, 56188), (82, 56221), (92, 56353), (95, 56383), (97, 56407), (100, 56449), (102, 56464), (106, 56545), (108, 56569), (113, 56587), (119, 56662), (123, 56725),

Gene: Corium_100 Start: 56148, Stop: 57584, Start Num: 23
Candidate Starts for Corium_100:
(6, 55845), (Start: 8 @55974 has 42 MA's), (Start: 23 @56148 has 188 MA's), (Start: 28 @56160 has 1 MA's), (Start: 48 @56499 has 1 MA's), (51, 56601), (59, 56766), (67, 56841), (71, 56886), (72, 56904), (73, 56907), (74, 56958), (78, 56988), (82, 57021), (92, 57153), (95, 57183), (97, 57207), (100, 57249), (102, 57264), (106, 57345), (108, 57369), (113, 57387), (119, 57462), (123, 57525), (124, 57528),

Gene: Cornucopia_101 Start: 52419, Stop: 53855, Start Num: 23
Candidate Starts for Cornucopia_101:
(6, 52116), (Start: 8 @52245 has 42 MA's), (Start: 23 @52419 has 188 MA's), (Start: 28 @52431 has 1 MA's), (46, 52695), (Start: 48 @52770 has 1 MA's), (51, 52872), (59, 53037), (67, 53112), (71, 53157), (72, 53175), (73, 53178), (74, 53229), (82, 53292), (92, 53424), (95, 53454), (97, 53478), (100, 53520), (102, 53535), (104, 53601), (108, 53640), (113, 53658), (119, 53733), (123, 53796),

Gene: Crumble_96 Start: 50687, Stop: 52123, Start Num: 23
Candidate Starts for Crumble_96:
(5, 50327), (6, 50384), (Start: 8 @50513 has 42 MA's), (Start: 23 @50687 has 188 MA's), (Start: 28 @50699 has 1 MA's), (Start: 48 @51038 has 1 MA's), (51, 51140), (53, 51161), (57, 51275), (59, 51305), (67, 51380), (71, 51425), (72, 51443), (73, 51446), (74, 51497), (78, 51527), (82, 51560), (92, 51692), (95, 51722), (97, 51746), (100, 51788), (102, 51803), (106, 51884), (108, 51908), (113, 51926), (119, 52001), (123, 52064),

Gene: DLane_101 Start: 55690, Stop: 57126, Start Num: 23
Candidate Starts for DLane_101:
(Start: 23 @55690 has 188 MA's), (Start: 28 @55702 has 1 MA's), (Start: 48 @56041 has 1 MA's), (51, 56143), (59, 56308), (67, 56383), (71, 56428), (73, 56449), (74, 56500), (82, 56563), (92, 56695), (95, 56725), (97, 56749), (100, 56791), (102, 56806), (106, 56887), (108, 56911), (113, 56929), (119, 57004), (123, 57067), (124, 57070),

Gene: DRBy19_101 Start: 55630, Stop: 57069, Start Num: 23
Candidate Starts for DRBy19_101:
(Start: 23 @55630 has 188 MA's), (27, 55639), (Start: 28 @55642 has 1 MA's), (Start: 48 @55984 has 1 MA's), (51, 56086), (57, 56221), (59, 56251), (61, 56269), (71, 56371), (72, 56389), (73, 56392), (74, 56443), (78, 56473), (82, 56506), (92, 56638), (95, 56668), (97, 56692), (100, 56734), (102, 56749), (108, 56854), (113, 56872), (119, 56947),

Gene: DaWorst_100 Start: 54061, Stop: 55683, Start Num: 8

Candidate Starts for DaWorst_100:
(Start: 8 @54061 has 42 MA's), (Start: 23 @54244 has 188 MA's), (27, 54253), (Start: 28 @54256 has 1 MA's), (Start: 48 @54598 has 1 MA's), (51, 54700), (57, 54835), (59, 54865), (61, 54883), (71, 54985), (72, 55003), (73, 55006), (74, 55057), (76, 55075), (82, 55120), (95, 55282), (97, 55306), (100, 55348), (102, 55363), (104, 55429), (108, 55468), (113, 55486), (119, 55561),

Gene: DaddyRickover_103 Start: 55113, Stop: 56549, Start Num: 23
Candidate Starts for DaddyRickover_103:
(Start: 23 @55113 has 188 MA's), (27, 55119), (Start: 28 @55122 has 1 MA's), (Start: 48 @55464 has 1 MA's), (51, 55566), (57, 55701), (59, 55731), (61, 55749), (71, 55851), (72, 55869), (73, 55872), (74, 55923), (82, 55986), (95, 56148), (97, 56172), (100, 56214), (102, 56229), (104, 56295), (108, 56334), (113, 56352), (119, 56427),

Gene: Daenerys_99 Start: 55280, Stop: 56716, Start Num: 23
Candidate Starts for Daenerys_99:
(Start: 23 @55280 has 188 MA's), (27, 55286), (Start: 28 @55289 has 1 MA's), (Start: 48 @55631 has 1 MA's), (51, 55733), (57, 55868), (59, 55898), (61, 55916), (71, 56018), (72, 56036), (73, 56039), (74, 56090), (76, 56108), (78, 56120), (82, 56153), (92, 56285), (95, 56315), (97, 56339), (100, 56381), (102, 56396), (104, 56462), (108, 56501), (113, 56519), (119, 56594),

Gene: Deb65_94 Start: 53004, Stop: 54440, Start Num: 23
Candidate Starts for Deb65_94:
(Start: 23 @53004 has 188 MA's), (27, 53010), (Start: 28 @53013 has 1 MA's), (Start: 48 @53355 has 1 MA's), (51, 53457), (57, 53592), (59, 53622), (61, 53640), (71, 53742), (72, 53760), (73, 53763), (74, 53814), (76, 53832), (78, 53844), (82, 53877), (92, 54009), (95, 54039), (97, 54063), (100, 54105), (102, 54120), (104, 54186), (108, 54225), (113, 54243), (119, 54318),

Gene: DillTech15_107 Start: 54586, Stop: 56025, Start Num: 23
Candidate Starts for DillTech15_107:
(Start: 23 @54586 has 188 MA's), (27, 54595), (Start: 28 @54598 has 1 MA's), (Start: 48 @54940 has 1 MA's), (51, 55042), (59, 55207), (71, 55327), (72, 55345), (73, 55348), (74, 55399), (78, 55429), (82, 55462), (92, 55594), (95, 55624), (97, 55648), (100, 55690), (102, 55705), (106, 55786), (108, 55810), (113, 55828), (119, 55903), (123, 55966), (124, 55969),

Gene: DirtMcgirt_101 Start: 51642, Stop: 53252, Start Num: 8
Candidate Starts for DirtMcgirt_101:
(Start: 8 @51642 has 42 MA's), (Start: 23 @51816 has 188 MA's), (Start: 28 @51828 has 1 MA's), (Start: 48 @52167 has 1 MA's), (51, 52269), (53, 52290), (59, 52434), (67, 52509), (71, 52554), (73, 52575), (74, 52626), (82, 52689), (95, 52851), (97, 52875), (100, 52917), (102, 52932), (104, 52998), (108, 53037), (113, 53055), (119, 53130),

Gene: DocMcStuffins_89 Start: 55810, Stop: 57246, Start Num: 23
Candidate Starts for DocMcStuffins_89:
(1, 55051), (2, 55213), (3, 55357), (4, 55360), (5, 55450), (6, 55507), (7, 55612), (Start: 8 @55636 has 42 MA's), (Start: 23 @55810 has 188 MA's), (Start: 28 @55822 has 1 MA's), (Start: 48 @56161 has 1 MA's), (51, 56263), (57, 56398), (59, 56428), (61, 56446), (67, 56503), (71, 56548), (72, 56566), (73, 56569), (74, 56620), (82, 56683), (92, 56815), (95, 56845), (97, 56869), (100, 56911), (102, 56926), (106, 57007), (108, 57031), (113, 57049), (119, 57124), (123, 57187),

Gene: Donkeykong_107 Start: 56745, Stop: 58181, Start Num: 23
Candidate Starts for Donkeykong_107:
(Start: 8 @56562 has 42 MA's), (Start: 23 @56745 has 188 MA's), (27, 56754), (Start: 28 @56757 has 1 MA's), (Start: 48 @57096 has 1 MA's), (51, 57198), (57, 57333), (59, 57363), (61, 57381), (71,

57483), (72, 57501), (73, 57504), (74, 57555), (78, 57585), (82, 57618), (92, 57750), (95, 57780), (97, 57804), (100, 57846), (102, 57861), (106, 57942), (108, 57966), (113, 57984), (119, 58059), (123, 58122), (124, 58125),

Gene: Doomphist_106 Start: 55933, Stop: 57354, Start Num: 23
Candidate Starts for Doomphist_106:
(Start: 23 @55933 has 188 MA's), (26, 55939), (Start: 28 @55942 has 1 MA's), (Start: 48 @56284 has 1 MA's), (51, 56386), (57, 56521), (59, 56551), (61, 56569), (67, 56626), (71, 56671), (72, 56689), (73, 56692), (74, 56743), (82, 56806), (92, 56938), (95, 56968), (97, 56992), (100, 57034), (102, 57049), (104, 57115), (106, 57130), (108, 57154), (113, 57172), (119, 57247), (123, 57310),

Gene: Dorothy_102 Start: 56102, Stop: 57538, Start Num: 23
Candidate Starts for Dorothy_102:
(Start: 23 @56102 has 188 MA's), (27, 56108), (Start: 28 @56111 has 1 MA's), (Start: 48 @56453 has 1 MA's), (51, 56555), (57, 56690), (59, 56720), (61, 56738), (71, 56840), (72, 56858), (73, 56861), (74, 56912), (76, 56930), (78, 56942), (82, 56975), (92, 57107), (95, 57137), (97, 57161), (100, 57203), (102, 57218), (104, 57284), (108, 57323), (113, 57341), (119, 57416),

Gene: DosHalletts_98 Start: 54741, Stop: 56177, Start Num: 23
Candidate Starts for DosHalletts_98:
(6, 54438), (Start: 8 @54567 has 42 MA's), (Start: 23 @54741 has 188 MA's), (Start: 28 @54753 has 1 MA's), (Start: 48 @55092 has 1 MA's), (51, 55194), (59, 55359), (67, 55434), (71, 55479), (73, 55500), (74, 55551), (78, 55581), (82, 55614), (92, 55746), (95, 55776), (97, 55800), (100, 55842), (102, 55857), (106, 55938), (108, 55962), (113, 55980), (119, 56055), (123, 56118), (124, 56121),

Gene: DotProduct_95 Start: 52108, Stop: 53544, Start Num: 23
Candidate Starts for DotProduct_95:
(6, 51805), (Start: 8 @51934 has 42 MA's), (Start: 23 @52108 has 188 MA's), (Start: 28 @52120 has 1 MA's), (Start: 48 @52459 has 1 MA's), (51, 52561), (59, 52726), (67, 52801), (71, 52846), (72, 52864), (73, 52867), (74, 52918), (78, 52948), (82, 52981), (92, 53113), (95, 53143), (97, 53167), (100, 53209), (102, 53224), (106, 53305), (108, 53329), (113, 53347), (119, 53422), (123, 53485), (124, 53488),

Gene: Doug_97 Start: 55481, Stop: 57100, Start Num: 8
Candidate Starts for Doug_97:
(Start: 8 @55481 has 42 MA's), (Start: 23 @55664 has 188 MA's), (27, 55673), (Start: 28 @55676 has 1 MA's), (Start: 48 @56015 has 1 MA's), (51, 56117), (57, 56252), (59, 56282), (61, 56300), (71, 56402), (72, 56420), (73, 56423), (74, 56474), (82, 56537), (92, 56669), (95, 56699), (97, 56723), (100, 56765), (102, 56780), (104, 56846), (108, 56885), (113, 56903), (119, 56978),

Gene: Drago_100 Start: 51828, Stop: 53267, Start Num: 23
Candidate Starts for Drago_100:
(Start: 8 @51645 has 42 MA's), (Start: 23 @51828 has 188 MA's), (27, 51837), (Start: 28 @51840 has 1 MA's), (Start: 48 @52182 has 1 MA's), (51, 52284), (57, 52419), (59, 52449), (61, 52467), (71, 52569), (72, 52587), (73, 52590), (74, 52641), (76, 52659), (82, 52704), (95, 52866), (97, 52890), (100, 52932), (102, 52947), (104, 53013), (108, 53052), (113, 53070), (119, 53145),

Gene: Eish_106 Start: 55417, Stop: 56853, Start Num: 23
Candidate Starts for Eish_106:
(6, 55114), (Start: 8 @55243 has 42 MA's), (Start: 23 @55417 has 188 MA's), (Start: 28 @55429 has 1 MA's), (Start: 48 @55768 has 1 MA's), (51, 55870), (57, 56005), (59, 56035), (61, 56053), (67, 56110), (71, 56155), (72, 56173), (73, 56176), (74, 56227), (82, 56290), (92, 56422), (95, 56452), (97, 56476), (100, 56518), (102, 56533), (104, 56599), (108, 56638), (113, 56656), (119, 56731),

Gene: EleanorGeorge_105 Start: 56747, Stop: 58186, Start Num: 23
Candidate Starts for EleanorGeorge_105:
(Start: 23 @56747 has 188 MA's), (27, 56756), (Start: 28 @56759 has 1 MA's), (Start: 48 @57101 has 1 MA's), (51, 57203), (59, 57368), (71, 57488), (72, 57506), (73, 57509), (74, 57560), (78, 57590), (82, 57623), (92, 57755), (95, 57785), (97, 57809), (100, 57851), (102, 57866), (106, 57947), (108, 57971), (113, 57989), (119, 58064), (123, 58127), (124, 58130),

Gene: EmiMonkey_89 Start: 55677, Stop: 57287, Start Num: 8
Candidate Starts for EmiMonkey_89:
(Start: 8 @55677 has 42 MA's), (Start: 23 @55851 has 188 MA's), (Start: 28 @55863 has 1 MA's), (Start: 48 @56202 has 1 MA's), (51, 56304), (57, 56439), (59, 56469), (67, 56544), (71, 56589), (73, 56610), (74, 56661), (78, 56691), (82, 56724), (92, 56856), (95, 56886), (97, 56910), (100, 56952), (102, 56967), (104, 57033), (108, 57072), (113, 57090), (119, 57165),

Gene: Emma_106 Start: 53685, Stop: 55121, Start Num: 23
Candidate Starts for Emma_106:
(6, 53382), (Start: 8 @53511 has 42 MA's), (Start: 23 @53685 has 188 MA's), (Start: 28 @53697 has 1 MA's), (Start: 48 @54036 has 1 MA's), (51, 54138), (59, 54303), (73, 54444), (74, 54495), (78, 54525), (82, 54558), (92, 54690), (95, 54720), (97, 54744), (100, 54786), (102, 54801), (106, 54882), (108, 54906), (113, 54924), (119, 54999), (123, 55062),

Gene: Emmaloid_105 Start: 54894, Stop: 56330, Start Num: 23
Candidate Starts for Emmaloid_105:
(Start: 23 @54894 has 188 MA's), (Start: 28 @54906 has 1 MA's), (Start: 48 @55245 has 1 MA's), (51, 55347), (59, 55512), (67, 55587), (71, 55632), (73, 55653), (74, 55704), (78, 55734), (82, 55767), (92, 55899), (95, 55929), (97, 55953), (100, 55995), (102, 56010), (106, 56091), (108, 56115), (113, 56133), (119, 56208), (123, 56271), (124, 56274),

Gene: Empress_101 Start: 54196, Stop: 55632, Start Num: 23
Candidate Starts for Empress_101:
(Start: 23 @54196 has 188 MA's), (27, 54202), (Start: 28 @54205 has 1 MA's), (Start: 48 @54547 has 1 MA's), (51, 54649), (57, 54784), (59, 54814), (61, 54832), (71, 54934), (72, 54952), (73, 54955), (74, 55006), (76, 55024), (78, 55036), (82, 55069), (92, 55201), (95, 55231), (97, 55255), (100, 55297), (102, 55312), (104, 55378), (108, 55417), (113, 55435), (119, 55510),

Gene: Enby_104 Start: 51921, Stop: 53543, Start Num: 8
Candidate Starts for Enby_104:
(Start: 8 @51921 has 42 MA's), (Start: 23 @52104 has 188 MA's), (27, 52113), (Start: 28 @52116 has 1 MA's), (Start: 48 @52458 has 1 MA's), (51, 52560), (57, 52695), (59, 52725), (61, 52743), (71, 52845), (72, 52863), (73, 52866), (74, 52917), (76, 52935), (82, 52980), (95, 53142), (97, 53166), (100, 53208), (102, 53223), (104, 53289), (108, 53328), (113, 53346), (119, 53421),

Gene: Enzomatic_113 Start: 53837, Stop: 55447, Start Num: 8
Candidate Starts for Enzomatic_113:
(Start: 8 @53837 has 42 MA's), (Start: 23 @54011 has 188 MA's), (Start: 28 @54023 has 1 MA's), (Start: 48 @54362 has 1 MA's), (51, 54464), (57, 54599), (59, 54629), (61, 54647), (67, 54704), (71, 54749), (72, 54767), (73, 54770), (74, 54821), (82, 54884), (92, 55016), (95, 55046), (97, 55070), (100, 55112), (102, 55127), (104, 55193), (106, 55208), (108, 55232), (113, 55250), (119, 55325),

Gene: Eradicator_92 Start: 52966, Stop: 54402, Start Num: 23
Candidate Starts for Eradicator_92:
(Start: 23 @52966 has 188 MA's), (27, 52972), (Start: 28 @52975 has 1 MA's), (Start: 48 @53317 has 1 MA's), (51, 53419), (57, 53554), (59, 53584), (61, 53602), (71, 53704), (72, 53722), (73, 53725), (74,

53776), (82, 53839), (95, 54001), (97, 54025), (100, 54067), (102, 54082), (104, 54148), (108, 54187), (113, 54205), (119, 54280),

Gene: Estave1_109 Start: 57990, Stop: 59429, Start Num: 23
Candidate Starts for Estave1_109:
(Start: 23 @57990 has 188 MA's), (27, 57999), (Start: 28 @58002 has 1 MA's), (Start: 48 @58344 has 1 MA's), (51, 58446), (57, 58581), (59, 58611), (61, 58629), (67, 58686), (71, 58731), (72, 58749), (73, 58752), (74, 58803), (82, 58866), (95, 59028), (97, 59052), (100, 59094), (102, 59109), (104, 59175), (108, 59214), (113, 59232), (119, 59307),

Gene: Fancypants_108 Start: 57495, Stop: 58931, Start Num: 23
Candidate Starts for Fancypants_108:
(Start: 23 @57495 has 188 MA's), (27, 57501), (Start: 28 @57504 has 1 MA's), (Start: 48 @57846 has 1 MA's), (51, 57948), (57, 58083), (59, 58113), (61, 58131), (71, 58233), (72, 58251), (73, 58254), (74, 58305), (82, 58368), (95, 58530), (97, 58554), (100, 58596), (102, 58611), (104, 58677), (108, 58716), (113, 58734), (119, 58809),

Gene: Farewell_89 Start: 57991, Stop: 59445, Start Num: 23
Candidate Starts for Farewell_89:
(15, 57958), (21, 57982), (Start: 23 @57991 has 188 MA's), (40, 58180), (44, 58255), (45, 58267), (49, 58408), (65, 58678), (74, 58813), (82, 58876), (92, 59011), (93, 59017), (98, 59086), (102, 59125), (104, 59194), (107, 59230), (108, 59233), (115, 59278), (119, 59323), (120, 59329), (125, 59395),

Gene: Fastidio_104 Start: 52456, Stop: 54066, Start Num: 8
Candidate Starts for Fastidio_104:
(Start: 8 @52456 has 42 MA's), (Start: 23 @52630 has 188 MA's), (Start: 28 @52642 has 1 MA's), (Start: 48 @52981 has 1 MA's), (51, 53083), (59, 53248), (67, 53323), (71, 53368), (73, 53389), (74, 53440), (78, 53470), (82, 53503), (92, 53635), (95, 53665), (97, 53689), (100, 53731), (102, 53746), (106, 53827), (108, 53851), (113, 53869), (119, 53944), (123, 54007), (124, 54010),

Gene: Filuzino_101 Start: 56039, Stop: 57532, Start Num: 14
Candidate Starts for Filuzino_101:
(6, 55793), (Start: 8 @55922 has 42 MA's), (Start: 14 @56039 has 1 MA's), (Start: 23 @56096 has 188 MA's), (Start: 28 @56108 has 1 MA's), (Start: 48 @56447 has 1 MA's), (51, 56549), (59, 56714), (67, 56789), (70, 56831), (71, 56834), (73, 56855), (74, 56906), (78, 56936), (82, 56969), (92, 57101), (95, 57131), (97, 57155), (100, 57197), (102, 57212), (106, 57293), (108, 57317), (113, 57335), (119, 57410), (123, 57473), (124, 57476),

Gene: Firehouse51_95 Start: 54914, Stop: 56350, Start Num: 23
Candidate Starts for Firehouse51_95:
(Start: 23 @54914 has 188 MA's), (Start: 28 @54926 has 1 MA's), (Start: 48 @55265 has 1 MA's), (51, 55367), (57, 55502), (59, 55532), (61, 55550), (67, 55607), (71, 55652), (72, 55670), (73, 55673), (74, 55724), (82, 55787), (92, 55919), (95, 55949), (97, 55973), (100, 56015), (102, 56030), (104, 56096), (106, 56111), (108, 56135), (113, 56153), (119, 56228),

Gene: Flathead_103 Start: 54417, Stop: 55853, Start Num: 23
Candidate Starts for Flathead_103:
(6, 54114), (Start: 8 @54243 has 42 MA's), (Start: 23 @54417 has 188 MA's), (Start: 28 @54429 has 1 MA's), (Start: 48 @54768 has 1 MA's), (51, 54870), (59, 55035), (67, 55110), (71, 55155), (73, 55176), (74, 55227), (78, 55257), (82, 55290), (92, 55422), (95, 55452), (97, 55476), (100, 55518), (102, 55533), (104, 55599), (108, 55638), (113, 55656), (119, 55731),

Gene: Florinda_113 Start: 56502, Stop: 57938, Start Num: 23

Candidate Starts for Florinda_113:
(5, 56142), (6, 56199), (Start: 8 @56328 has 42 MA's), (Start: 23 @56502 has 188 MA's), (Start: 28 @56514 has 1 MA's), (Start: 48 @56853 has 1 MA's), (51, 56955), (57, 57090), (59, 57120), (61, 57138), (71, 57240), (72, 57258), (73, 57261), (74, 57312), (78, 57342), (82, 57375), (92, 57507), (95, 57537), (97, 57561), (100, 57603), (102, 57618), (108, 57723), (113, 57741), (119, 57816),

Gene: Frankie_100 Start: 54151, Stop: 55761, Start Num: 8
Candidate Starts for Frankie_100:
(6, 54022), (Start: 8 @54151 has 42 MA's), (Start: 23 @54325 has 188 MA's), (Start: 28 @54337 has 1 MA's), (Start: 48 @54676 has 1 MA's), (51, 54778), (59, 54943), (67, 55018), (71, 55063), (72, 55081), (73, 55084), (74, 55135), (82, 55198), (92, 55330), (95, 55360), (97, 55384), (100, 55426), (102, 55441), (106, 55522), (108, 55546), (113, 55564), (119, 55639), (123, 55702),

Gene: FreddyB_110 Start: 55411, Stop: 57021, Start Num: 8
Candidate Starts for FreddyB_110:
(6, 55282), (Start: 8 @55411 has 42 MA's), (Start: 23 @55585 has 188 MA's), (Start: 28 @55597 has 1 MA's), (Start: 48 @55936 has 1 MA's), (51, 56038), (59, 56203), (61, 56221), (73, 56344), (74, 56395), (78, 56425), (82, 56458), (92, 56590), (95, 56620), (97, 56644), (100, 56686), (102, 56701), (104, 56767), (108, 56806), (113, 56824), (119, 56899),

Gene: Fruitloop_99 Start: 55261, Stop: 56697, Start Num: 23
Candidate Starts for Fruitloop_99:
(6, 54958), (Start: 8 @55087 has 42 MA's), (Start: 23 @55261 has 188 MA's), (Start: 28 @55273 has 1 MA's), (Start: 48 @55612 has 1 MA's), (51, 55714), (59, 55879), (67, 55954), (71, 55999), (73, 56020), (74, 56071), (78, 56101), (82, 56134), (92, 56266), (95, 56296), (97, 56320), (100, 56362), (102, 56377), (106, 56458), (108, 56482), (113, 56500), (119, 56575), (123, 56638), (124, 56641),

Gene: GUmbie_100 Start: 54132, Stop: 55568, Start Num: 23
Candidate Starts for GUmbie_100:
(Start: 23 @54132 has 188 MA's), (27, 54141), (Start: 28 @54144 has 1 MA's), (Start: 48 @54483 has 1 MA's), (51, 54585), (57, 54720), (59, 54750), (61, 54768), (67, 54825), (71, 54870), (72, 54888), (73, 54891), (74, 54942), (82, 55005), (92, 55137), (95, 55167), (97, 55191), (100, 55233), (102, 55248), (106, 55329), (108, 55353), (113, 55371), (119, 55446), (123, 55509), (124, 55512),

Gene: Galactic_105 Start: 54609, Stop: 56045, Start Num: 23
Candidate Starts for Galactic_105:
(Start: 23 @54609 has 188 MA's), (27, 54618), (Start: 28 @54621 has 1 MA's), (Start: 48 @54960 has 1 MA's), (51, 55062), (57, 55197), (59, 55227), (61, 55245), (67, 55302), (71, 55347), (72, 55365), (73, 55368), (74, 55419), (82, 55482), (92, 55614), (95, 55644), (97, 55668), (100, 55710), (102, 55725), (104, 55791), (106, 55806), (108, 55830), (113, 55848), (119, 55923),

Gene: Gandalph_101 Start: 52238, Stop: 53677, Start Num: 23
Candidate Starts for Gandalph_101:
(Start: 23 @52238 has 188 MA's), (27, 52247), (Start: 28 @52250 has 1 MA's), (Start: 48 @52592 has 1 MA's), (51, 52694), (59, 52859), (71, 52979), (72, 52997), (73, 53000), (74, 53051), (78, 53081), (82, 53114), (92, 53246), (95, 53276), (97, 53300), (100, 53342), (102, 53357), (106, 53438), (108, 53462), (113, 53480), (119, 53555), (123, 53618), (124, 53621),

Gene: Geralt_94 Start: 53002, Stop: 54438, Start Num: 23
Candidate Starts for Geralt_94:
(Start: 23 @53002 has 188 MA's), (27, 53008), (Start: 28 @53011 has 1 MA's), (Start: 48 @53353 has 1 MA's), (51, 53455), (57, 53590), (59, 53620), (61, 53638), (71, 53740), (72, 53758), (73, 53761), (74, 53812), (76, 53830), (78, 53842), (82, 53875), (92, 54007), (95, 54037), (97, 54061), (100, 54103),

(102, 54118), (104, 54184), (108, 54223), (113, 54241), (119, 54316),

Gene: GigiOuiOui_95 Start: 52951, Stop: 54573, Start Num: 8
Candidate Starts for GigiOuiOui_95:
(Start: 8 @52951 has 42 MA's), (Start: 23 @53134 has 188 MA's), (27, 53143), (Start: 28 @53146 has 1 MA's), (Start: 48 @53488 has 1 MA's), (51, 53590), (57, 53725), (59, 53755), (61, 53773), (67, 53830), (71, 53875), (72, 53893), (73, 53896), (74, 53947), (82, 54010), (92, 54142), (95, 54172), (97, 54196), (100, 54238), (102, 54253), (104, 54319), (106, 54334), (108, 54358), (113, 54376), (119, 54451),

Gene: Girafales_110 Start: 56107, Stop: 57543, Start Num: 23
Candidate Starts for Girafales_110:
(5, 55747), (6, 55804), (Start: 8 @55933 has 42 MA's), (Start: 23 @56107 has 188 MA's), (Start: 28 @56119 has 1 MA's), (Start: 48 @56458 has 1 MA's), (51, 56560), (57, 56695), (59, 56725), (61, 56743), (71, 56845), (72, 56863), (73, 56866), (74, 56917), (78, 56947), (82, 56980), (92, 57112), (95, 57142), (97, 57166), (100, 57208), (102, 57223), (106, 57304), (108, 57328), (113, 57346), (119, 57421), (123, 57484),

Gene: Girr_100 Start: 54991, Stop: 56427, Start Num: 23
Candidate Starts for Girr_100:
(Start: 8 @54817 has 42 MA's), (Start: 23 @54991 has 188 MA's), (Start: 28 @55003 has 1 MA's), (Start: 48 @55342 has 1 MA's), (51, 55444), (57, 55579), (59, 55609), (61, 55627), (71, 55729), (72, 55747), (73, 55750), (74, 55801), (76, 55819), (78, 55831), (82, 55864), (92, 55996), (95, 56026), (97, 56050), (100, 56092), (102, 56107), (104, 56173), (108, 56212), (113, 56230), (119, 56305),

Gene: Gorge_100 Start: 55222, Stop: 56658, Start Num: 23
Candidate Starts for Gorge_100:
(Start: 23 @55222 has 188 MA's), (26, 55228), (Start: 28 @55231 has 1 MA's), (Start: 48 @55573 has 1 MA's), (51, 55675), (57, 55810), (59, 55840), (61, 55858), (71, 55960), (72, 55978), (73, 55981), (74, 56032), (76, 56050), (78, 56062), (82, 56095), (92, 56227), (95, 56257), (97, 56281), (100, 56323), (102, 56338), (106, 56419), (108, 56443), (113, 56461), (119, 56536), (123, 56599),

Gene: Guppsters_96 Start: 52102, Stop: 53538, Start Num: 23
Candidate Starts for Guppsters_96:
(5, 51742), (6, 51799), (Start: 8 @51928 has 42 MA's), (Start: 23 @52102 has 188 MA's), (Start: 28 @52114 has 1 MA's), (Start: 48 @52453 has 1 MA's), (51, 52555), (53, 52576), (59, 52720), (61, 52738), (63, 52750), (73, 52861), (74, 52912), (78, 52942), (82, 52975), (92, 53107), (95, 53137), (97, 53161), (100, 53203), (102, 53218), (106, 53299), (108, 53323), (113, 53341), (119, 53416), (123, 53479),

Gene: Hades_98 Start: 51775, Stop: 53214, Start Num: 23
Candidate Starts for Hades_98:
(Start: 23 @51775 has 188 MA's), (27, 51784), (Start: 28 @51787 has 1 MA's), (Start: 48 @52129 has 1 MA's), (51, 52231), (59, 52396), (67, 52471), (71, 52516), (72, 52534), (73, 52537), (74, 52588), (82, 52651), (92, 52783), (95, 52813), (97, 52837), (100, 52879), (102, 52894), (106, 52975), (108, 52999), (113, 53017), (119, 53092), (123, 53155), (124, 53158),

Gene: Hamulus_101 Start: 53946, Stop: 55382, Start Num: 23
Candidate Starts for Hamulus_101:
(6, 53643), (Start: 8 @53772 has 42 MA's), (Start: 23 @53946 has 188 MA's), (Start: 28 @53958 has 1 MA's), (Start: 48 @54297 has 1 MA's), (51, 54399), (53, 54420), (59, 54564), (67, 54639), (71, 54684), (73, 54705), (74, 54756), (78, 54786), (82, 54819), (92, 54951), (95, 54981), (97, 55005), (100, 55047), (102, 55062), (106, 55143), (108, 55167), (113, 55185), (119, 55260), (123, 55323), (124, 55326),

Gene: Harley_102 Start: 54944, Stop: 56554, Start Num: 8
Candidate Starts for Harley_102:
(Start: 8 @54944 has 42 MA's), (Start: 23 @55118 has 188 MA's), (Start: 28 @55130 has 1 MA's), (Start: 48 @55469 has 1 MA's), (51, 55571), (57, 55706), (59, 55736), (61, 55754), (67, 55811), (71, 55856), (72, 55874), (73, 55877), (74, 55928), (82, 55991), (92, 56123), (95, 56153), (97, 56177), (100, 56219), (102, 56234), (104, 56300), (106, 56315), (108, 56339), (113, 56357), (119, 56432),

Gene: Hegedechwinu_109 Start: 54494, Stop: 55918, Start Num: 28
Candidate Starts for Hegedechwinu_109:
(6, 54179), (Start: 8 @54308 has 42 MA's), (Start: 23 @54482 has 188 MA's), (Start: 28 @54494 has 1 MA's), (Start: 48 @54833 has 1 MA's), (51, 54935), (57, 55070), (59, 55100), (61, 55118), (67, 55175), (71, 55220), (72, 55238), (73, 55241), (74, 55292), (82, 55355), (95, 55517), (97, 55541), (100, 55583), (102, 55598), (104, 55664), (108, 55703), (113, 55721), (119, 55796),

Gene: Hlubikazi_99 Start: 52734, Stop: 54173, Start Num: 23
Candidate Starts for Hlubikazi_99:
(6, 52422), (Start: 8 @52551 has 42 MA's), (Start: 23 @52734 has 188 MA's), (27, 52743), (Start: 28 @52746 has 1 MA's), (Start: 48 @53088 has 1 MA's), (51, 53190), (57, 53325), (59, 53355), (61, 53373), (71, 53475), (72, 53493), (73, 53496), (74, 53547), (82, 53610), (92, 53742), (95, 53772), (97, 53796), (100, 53838), (102, 53853), (104, 53919), (106, 53934), (108, 53958), (113, 53976), (119, 54051), (123, 54114),

Gene: IMpilo_99 Start: 52724, Stop: 54160, Start Num: 23
Candidate Starts for IMpilo_99:
(Start: 8 @52550 has 42 MA's), (Start: 23 @52724 has 188 MA's), (Start: 28 @52736 has 1 MA's), (Start: 48 @53075 has 1 MA's), (51, 53177), (59, 53342), (67, 53417), (71, 53462), (73, 53483), (78, 53564), (82, 53597), (92, 53729), (95, 53759), (97, 53783), (100, 53825), (102, 53840), (106, 53921), (108, 53945), (113, 53963), (119, 54038), (123, 54101), (124, 54104),

Gene: IbOuu_92 Start: 52088, Stop: 53524, Start Num: 23
Candidate Starts for IbOuu_92:
(5, 51728), (6, 51785), (Start: 8 @51914 has 42 MA's), (Start: 23 @52088 has 188 MA's), (Start: 28 @52100 has 1 MA's), (Start: 48 @52439 has 1 MA's), (51, 52541), (59, 52706), (67, 52781), (71, 52826), (72, 52844), (73, 52847), (74, 52898), (78, 52928), (82, 52961), (95, 53123), (97, 53147), (100, 53189), (102, 53204), (104, 53270), (108, 53309), (113, 53327), (119, 53402), (123, 53465), (124, 53468),

Gene: Ibhubesi_97 Start: 51813, Stop: 53423, Start Num: 8
Candidate Starts for Ibhubesi_97:
(Start: 8 @51813 has 42 MA's), (Start: 23 @51987 has 188 MA's), (Start: 28 @51999 has 1 MA's), (Start: 48 @52338 has 1 MA's), (51, 52440), (57, 52575), (59, 52605), (61, 52623), (67, 52680), (71, 52725), (72, 52743), (73, 52746), (74, 52797), (82, 52860), (92, 52992), (95, 53022), (97, 53046), (100, 53088), (102, 53103), (104, 53169), (106, 53184), (108, 53208), (113, 53226), (119, 53301),

Gene: Inventum_99 Start: 54290, Stop: 55726, Start Num: 23
Candidate Starts for Inventum_99:
(Start: 23 @54290 has 188 MA's), (27, 54296), (Start: 28 @54299 has 1 MA's), (Start: 48 @54641 has 1 MA's), (51, 54743), (57, 54878), (59, 54908), (61, 54926), (71, 55028), (72, 55046), (73, 55049), (74, 55100), (76, 55118), (78, 55130), (82, 55163), (92, 55295), (95, 55325), (97, 55349), (100, 55391), (102, 55406), (104, 55472), (108, 55511), (113, 55529), (119, 55604),

Gene: JalFarm20_110 Start: 56423, Stop: 57859, Start Num: 23

Candidate Starts for JalFarm20_110:
(6, 56120), (Start: 8 @56249 has 42 MA's), (Start: 23 @56423 has 188 MA's), (Start: 28 @56435 has 1 MA's), (Start: 48 @56774 has 1 MA's), (51, 56876), (59, 57041), (67, 57116), (70, 57158), (71, 57161), (73, 57182), (74, 57233), (78, 57263), (82, 57296), (90, 57419), (92, 57428), (95, 57458), (97, 57482), (100, 57524), (102, 57539), (106, 57620), (108, 57644), (113, 57662), (119, 57737), (123, 57800), (124, 57803),

Gene: James_105 Start: 56883, Stop: 58319, Start Num: 23
Candidate Starts for James_105:
(Start: 23 @56883 has 188 MA's), (Start: 28 @56895 has 1 MA's), (Start: 48 @57234 has 1 MA's), (51, 57336), (53, 57357), (57, 57471), (59, 57501), (61, 57519), (71, 57621), (72, 57639), (73, 57642), (74, 57693), (82, 57756), (92, 57888), (95, 57918), (97, 57942), (100, 57984), (102, 57999), (104, 58065), (108, 58104), (113, 58122), (119, 58197),

Gene: Jarcob_104 Start: 56203, Stop: 57639, Start Num: 23
Candidate Starts for Jarcob_104:
(Start: 23 @56203 has 188 MA's), (27, 56209), (Start: 28 @56212 has 1 MA's), (Start: 48 @56554 has 1 MA's), (51, 56656), (57, 56791), (59, 56821), (61, 56839), (71, 56941), (72, 56959), (73, 56962), (74, 57013), (76, 57031), (78, 57043), (82, 57076), (92, 57208), (95, 57238), (97, 57262), (100, 57304), (102, 57319), (108, 57424), (113, 57442), (119, 57517),

Gene: Jennelsea_100 Start: 53783, Stop: 55219, Start Num: 23
Candidate Starts for Jennelsea_100:
(Start: 23 @53783 has 188 MA's), (Start: 28 @53795 has 1 MA's), (Start: 48 @54134 has 1 MA's), (51, 54236), (53, 54257), (57, 54371), (59, 54401), (67, 54476), (71, 54521), (72, 54539), (73, 54542), (74, 54593), (78, 54623), (82, 54656), (92, 54788), (95, 54818), (97, 54842), (100, 54884), (102, 54899), (104, 54965), (108, 55004), (113, 55022), (119, 55097),

Gene: Job42_103 Start: 57057, Stop: 58493, Start Num: 23
Candidate Starts for Job42_103:
(Start: 23 @57057 has 188 MA's), (Start: 28 @57069 has 1 MA's), (Start: 48 @57408 has 1 MA's), (51, 57510), (57, 57645), (59, 57675), (61, 57693), (67, 57750), (71, 57795), (72, 57813), (73, 57816), (74, 57867), (78, 57897), (82, 57930), (92, 58062), (95, 58092), (97, 58116), (100, 58158), (102, 58173), (113, 58296), (119, 58371),

Gene: JoeyJr_104 Start: 56198, Stop: 57634, Start Num: 23
Candidate Starts for JoeyJr_104:
(Start: 23 @56198 has 188 MA's), (27, 56204), (Start: 28 @56207 has 1 MA's), (Start: 48 @56549 has 1 MA's), (51, 56651), (57, 56786), (59, 56816), (61, 56834), (71, 56936), (72, 56954), (73, 56957), (74, 57008), (76, 57026), (78, 57038), (82, 57071), (92, 57203), (95, 57233), (97, 57257), (100, 57299), (102, 57314), (104, 57380), (108, 57419), (113, 57437), (119, 57512),

Gene: Juice456_100 Start: 53907, Stop: 55343, Start Num: 23
Candidate Starts for Juice456_100:
(Start: 8 @53724 has 42 MA's), (Start: 23 @53907 has 188 MA's), (26, 53913), (Start: 28 @53916 has 1 MA's), (Start: 48 @54258 has 1 MA's), (51, 54360), (59, 54525), (67, 54600), (71, 54645), (73, 54666), (74, 54717), (78, 54747), (82, 54780), (92, 54912), (95, 54942), (97, 54966), (100, 55008), (102, 55023), (106, 55104), (108, 55128), (113, 55146), (119, 55221), (123, 55284), (124, 55287),

Gene: Juniper1_92 Start: 52711, Stop: 54321, Start Num: 8
Candidate Starts for Juniper1_92:
(5, 52525), (6, 52582), (Start: 8 @52711 has 42 MA's), (Start: 23 @52885 has 188 MA's), (Start: 28 @52897 has 1 MA's), (Start: 48 @53236 has 1 MA's), (51, 53338), (57, 53473), (59, 53503), (61,

53521), (71, 53623), (72, 53641), (73, 53644), (74, 53695), (82, 53758), (92, 53890), (95, 53920), (97, 53944), (100, 53986), (102, 54001), (106, 54082), (108, 54106), (113, 54124), (119, 54199), (123, 54262),

Gene: Karhdo_97 Start: 52646, Stop: 54082, Start Num: 23
Candidate Starts for Karhdo_97:
(Start: 23 @52646 has 188 MA's), (Start: 28 @52658 has 1 MA's), (Start: 48 @52997 has 1 MA's), (51, 53099), (57, 53234), (59, 53264), (61, 53282), (71, 53384), (72, 53402), (73, 53405), (74, 53456), (82, 53519), (92, 53651), (95, 53681), (97, 53705), (100, 53747), (102, 53762), (104, 53828), (108, 53867), (113, 53885), (119, 53960),

Gene: Kenuha5_93 Start: 53770, Stop: 55206, Start Num: 23
Candidate Starts for Kenuha5_93:
(6, 53467), (Start: 8 @53596 has 42 MA's), (Start: 23 @53770 has 188 MA's), (Start: 28 @53782 has 1 MA's), (Start: 48 @54121 has 1 MA's), (51, 54223), (59, 54388), (73, 54529), (74, 54580), (78, 54610), (82, 54643), (92, 54775), (95, 54805), (97, 54829), (100, 54871), (102, 54886), (106, 54967), (108, 54991), (113, 55009), (119, 55084), (123, 55147),

Gene: Kersh_103 Start: 56765, Stop: 58375, Start Num: 8
Candidate Starts for Kersh_103:
(Start: 8 @56765 has 42 MA's), (Start: 23 @56939 has 188 MA's), (Start: 28 @56951 has 1 MA's), (Start: 48 @57290 has 1 MA's), (51, 57392), (57, 57527), (59, 57557), (61, 57575), (71, 57677), (72, 57695), (73, 57698), (74, 57749), (82, 57812), (92, 57944), (95, 57974), (97, 57998), (100, 58040), (102, 58055), (104, 58121), (106, 58136), (108, 58160), (113, 58178), (119, 58253),

Gene: Kimberlium_102 Start: 53824, Stop: 55443, Start Num: 8
Candidate Starts for Kimberlium_102:
(Start: 8 @53824 has 42 MA's), (Start: 23 @54007 has 188 MA's), (26, 54013), (Start: 28 @54016 has 1 MA's), (Start: 48 @54358 has 1 MA's), (51, 54460), (59, 54625), (67, 54700), (71, 54745), (73, 54766), (74, 54817), (78, 54847), (82, 54880), (92, 55012), (95, 55042), (97, 55066), (100, 55108), (102, 55123), (106, 55204), (108, 55228), (113, 55246), (119, 55321), (123, 55384), (124, 55387),

Gene: KingJulian_109 Start: 57012, Stop: 58448, Start Num: 23
Candidate Starts for KingJulian_109:
(6, 56709), (Start: 8 @56838 has 42 MA's), (Start: 23 @57012 has 188 MA's), (Start: 28 @57024 has 1 MA's), (Start: 48 @57363 has 1 MA's), (51, 57465), (59, 57630), (67, 57705), (71, 57750), (72, 57768), (73, 57771), (74, 57822), (78, 57852), (82, 57885), (92, 58017), (95, 58047), (97, 58071), (100, 58113), (102, 58128), (106, 58209), (108, 58233), (113, 58251), (119, 58326), (123, 58389), (124, 58392),

Gene: KingMidas_101 Start: 54427, Stop: 55863, Start Num: 23
Candidate Starts for KingMidas_101:
(Start: 23 @54427 has 188 MA's), (27, 54433), (Start: 28 @54436 has 1 MA's), (Start: 48 @54778 has 1 MA's), (51, 54880), (57, 55015), (59, 55045), (61, 55063), (71, 55165), (72, 55183), (73, 55186), (74, 55237), (76, 55255), (78, 55267), (82, 55300), (92, 55432), (95, 55462), (97, 55486), (100, 55528), (102, 55543), (104, 55609), (108, 55648), (113, 55666), (119, 55741),

Gene: Kingsley_110 Start: 57955, Stop: 59391, Start Num: 23
Candidate Starts for Kingsley_110:
(6, 57652), (Start: 8 @57781 has 42 MA's), (Start: 23 @57955 has 188 MA's), (Start: 28 @57967 has 1 MA's), (Start: 48 @58306 has 1 MA's), (51, 58408), (59, 58573), (73, 58714), (74, 58765), (78, 58795), (82, 58828), (92, 58960), (95, 58990), (97, 59014), (100, 59056), (102, 59071), (106, 59152), (108, 59176), (113, 59194), (119, 59269), (123, 59332),

Gene: Koella_94 Start: 51356, Stop: 52792, Start Num: 23
Candidate Starts for Koella_94:
(6, 51053), (Start: 8 @51182 has 42 MA's), (Start: 23 @51356 has 188 MA's), (Start: 28 @51368 has 1 MA's), (Start: 48 @51707 has 1 MA's), (51, 51809), (59, 51974), (61, 51992), (73, 52115), (74, 52166), (78, 52196), (82, 52229), (92, 52361), (95, 52391), (97, 52415), (100, 52457), (102, 52472), (104, 52538), (108, 52577), (113, 52595), (119, 52670),

Gene: Krakatau_94 Start: 50325, Stop: 51761, Start Num: 23
Candidate Starts for Krakatau_94:
(Start: 23 @50325 has 188 MA's), (27, 50334), (Start: 28 @50337 has 1 MA's), (Start: 48 @50676 has 1 MA's), (51, 50778), (59, 50943), (67, 51018), (71, 51063), (73, 51084), (74, 51135), (78, 51165), (82, 51198), (92, 51330), (95, 51360), (97, 51384), (100, 51426), (102, 51441), (106, 51522), (108, 51546), (113, 51564), (119, 51639), (123, 51702), (124, 51705),

Gene: KristaRAM_110 Start: 55967, Stop: 57403, Start Num: 23
Candidate Starts for KristaRAM_110:
(Start: 23 @55967 has 188 MA's), (Start: 28 @55979 has 1 MA's), (Start: 48 @56318 has 1 MA's), (51, 56420), (57, 56555), (59, 56585), (61, 56603), (67, 56660), (71, 56705), (72, 56723), (73, 56726), (74, 56777), (82, 56840), (92, 56972), (95, 57002), (97, 57026), (100, 57068), (102, 57083), (104, 57149), (108, 57188), (113, 57206), (119, 57281),

Gene: LastJedi_92 Start: 52413, Stop: 53849, Start Num: 23
Candidate Starts for LastJedi_92:
(6, 52110), (Start: 8 @52239 has 42 MA's), (Start: 23 @52413 has 188 MA's), (Start: 28 @52425 has 1 MA's), (Start: 48 @52764 has 1 MA's), (51, 52866), (59, 53031), (61, 53049), (73, 53172), (74, 53223), (78, 53253), (82, 53286), (92, 53418), (95, 53448), (97, 53472), (100, 53514), (102, 53529), (104, 53595), (108, 53634), (113, 53652), (119, 53727),

Gene: Latretium_104 Start: 55469, Stop: 56908, Start Num: 23
Candidate Starts for Latretium_104:
(Start: 23 @55469 has 188 MA's), (27, 55478), (Start: 28 @55481 has 1 MA's), (Start: 48 @55823 has 1 MA's), (51, 55925), (57, 56060), (59, 56090), (61, 56108), (71, 56210), (72, 56228), (73, 56231), (74, 56282), (82, 56345), (95, 56507), (97, 56531), (100, 56573), (102, 56588), (104, 56654), (106, 56669), (108, 56693), (113, 56711), (119, 56786),

Gene: Leozinho_97 Start: 51762, Stop: 53372, Start Num: 8
Candidate Starts for Leozinho_97:
(Start: 8 @51762 has 42 MA's), (Start: 23 @51936 has 188 MA's), (Start: 28 @51948 has 1 MA's), (Start: 48 @52287 has 1 MA's), (51, 52389), (57, 52524), (59, 52554), (61, 52572), (71, 52674), (72, 52692), (73, 52695), (74, 52746), (82, 52809), (95, 52971), (97, 52995), (100, 53037), (102, 53052), (108, 53157), (113, 53175), (119, 53250),

Gene: Leperchaun_103 Start: 55432, Stop: 56868, Start Num: 23
Candidate Starts for Leperchaun_103:
(Start: 23 @55432 has 188 MA's), (27, 55438), (Start: 28 @55441 has 1 MA's), (Start: 48 @55783 has 1 MA's), (51, 55885), (57, 56020), (59, 56050), (61, 56068), (71, 56170), (72, 56188), (73, 56191), (74, 56242), (76, 56260), (78, 56272), (82, 56305), (92, 56437), (95, 56467), (97, 56491), (100, 56533), (102, 56548), (104, 56614), (108, 56653), (113, 56671), (119, 56746),

Gene: LilMoolah_104 Start: 55403, Stop: 56839, Start Num: 23
Candidate Starts for LilMoolah_104:
(Start: 23 @55403 has 188 MA's), (27, 55412), (Start: 28 @55415 has 1 MA's), (Start: 48 @55754 has 1 MA's), (51, 55856), (57, 55991), (59, 56021), (61, 56039), (71, 56141), (72, 56159), (73, 56162), (74,

56213), (78, 56243), (82, 56276), (92, 56408), (95, 56438), (97, 56462), (100, 56504), (102, 56519), (106, 56600), (108, 56624), (113, 56642), (119, 56717), (123, 56780), (124, 56783),

Gene: LittleShirley_109 Start: 55790, Stop: 57226, Start Num: 23
Candidate Starts for LittleShirley_109:
(6, 55487), (Start: 8 @55616 has 42 MA's), (Start: 23 @55790 has 188 MA's), (Start: 28 @55802 has 1 MA's), (Start: 48 @56141 has 1 MA's), (51, 56243), (53, 56264), (59, 56408), (67, 56483), (71, 56528), (73, 56549), (74, 56600), (78, 56630), (82, 56663), (92, 56795), (95, 56825), (97, 56849), (100, 56891), (102, 56906), (106, 56987), (108, 57011), (113, 57029), (119, 57104), (123, 57167), (124, 57170),

Gene: Lizziana_102 Start: 55661, Stop: 57097, Start Num: 23
Candidate Starts for Lizziana_102:
(6, 55358), (Start: 8 @55487 has 42 MA's), (Start: 23 @55661 has 188 MA's), (Start: 28 @55673 has 1 MA's), (Start: 48 @56012 has 1 MA's), (51, 56114), (59, 56279), (61, 56297), (73, 56420), (74, 56471), (78, 56501), (82, 56534), (92, 56666), (95, 56696), (97, 56720), (100, 56762), (102, 56777), (104, 56843), (108, 56882), (113, 56900), (119, 56975),

Gene: Llij_96 Start: 53354, Stop: 54793, Start Num: 23
Candidate Starts for Llij_96:
(Start: 23 @53354 has 188 MA's), (27, 53363), (Start: 28 @53366 has 1 MA's), (Start: 48 @53708 has 1 MA's), (51, 53810), (57, 53945), (59, 53975), (61, 53993), (71, 54095), (72, 54113), (73, 54116), (74, 54167), (82, 54230), (92, 54362), (95, 54392), (97, 54416), (100, 54458), (102, 54473), (104, 54539), (108, 54578), (113, 54596), (119, 54671),

Gene: LordVader_90 Start: 51269, Stop: 52705, Start Num: 23
Candidate Starts for LordVader_90:
(Start: 23 @51269 has 188 MA's), (27, 51278), (Start: 28 @51281 has 1 MA's), (Start: 48 @51620 has 1 MA's), (51, 51722), (57, 51857), (59, 51887), (61, 51905), (67, 51962), (71, 52007), (72, 52025), (73, 52028), (74, 52079), (82, 52142), (92, 52274), (95, 52304), (97, 52328), (100, 52370), (102, 52385), (106, 52466), (108, 52490), (113, 52508), (119, 52583), (123, 52646), (124, 52649),

Gene: Lorde_103 Start: 51086, Stop: 52708, Start Num: 8
Candidate Starts for Lorde_103:
(Start: 8 @51086 has 42 MA's), (Start: 23 @51269 has 188 MA's), (27, 51278), (Start: 28 @51281 has 1 MA's), (Start: 48 @51623 has 1 MA's), (51, 51725), (57, 51860), (59, 51890), (61, 51908), (71, 52010), (72, 52028), (73, 52031), (74, 52082), (76, 52100), (82, 52145), (95, 52307), (97, 52331), (100, 52373), (102, 52388), (104, 52454), (108, 52493), (113, 52511), (119, 52586),

Gene: Lucia_100 Start: 51934, Stop: 53556, Start Num: 8
Candidate Starts for Lucia_100:
(Start: 8 @51934 has 42 MA's), (Start: 23 @52117 has 188 MA's), (27, 52126), (Start: 28 @52129 has 1 MA's), (Start: 48 @52471 has 1 MA's), (51, 52573), (57, 52708), (59, 52738), (61, 52756), (71, 52858), (72, 52876), (73, 52879), (74, 52930), (76, 52948), (82, 52993), (95, 53155), (97, 53179), (100, 53221), (102, 53236), (104, 53302), (108, 53341), (113, 53359), (119, 53434),

Gene: LunaBlu_107 Start: 55857, Stop: 57467, Start Num: 8
Candidate Starts for LunaBlu_107:
(Start: 8 @55857 has 42 MA's), (Start: 23 @56031 has 188 MA's), (Start: 28 @56043 has 1 MA's), (Start: 48 @56382 has 1 MA's), (51, 56484), (57, 56619), (59, 56649), (61, 56667), (67, 56724), (71, 56769), (72, 56787), (73, 56790), (74, 56841), (82, 56904), (92, 57036), (95, 57066), (97, 57090), (100, 57132), (102, 57147), (104, 57213), (106, 57228), (108, 57252), (113, 57270), (119, 57345),

Gene: LunaStella_98 Start: 52755, Stop: 54188, Start Num: 23

Candidate Starts for LunaStella_98:
(Start: 23 @52755 has 188 MA's), (27, 52764), (32, 52788), (42, 52992), (Start: 48 @53100 has 1 MA's), (50, 53184), (51, 53205), (57, 53340), (59, 53370), (61, 53388), (74, 53562), (75, 53574), (82, 53625), (88, 53685), (90, 53748), (92, 53757), (95, 53787), (97, 53811), (102, 53868), (108, 53973), (113, 53991), (119, 54066), (122, 54111),

Gene: MadMen_106 Start: 55023, Stop: 56462, Start Num: 23
Candidate Starts for MadMen_106:
(Start: 23 @55023 has 188 MA's), (27, 55032), (Start: 28 @55035 has 1 MA's), (Start: 48 @55377 has 1 MA's), (51, 55479), (57, 55614), (59, 55644), (61, 55662), (71, 55764), (72, 55782), (73, 55785), (74, 55836), (76, 55854), (78, 55866), (82, 55899), (92, 56031), (95, 56061), (97, 56085), (100, 56127), (102, 56142), (108, 56247), (113, 56265), (119, 56340),

Gene: Madiba_100 Start: 53711, Stop: 55147, Start Num: 23
Candidate Starts for Madiba_100:
(Start: 23 @53711 has 188 MA's), (27, 53720), (Start: 28 @53723 has 1 MA's), (Start: 48 @54062 has 1 MA's), (51, 54164), (57, 54299), (59, 54329), (61, 54347), (71, 54449), (72, 54467), (73, 54470), (74, 54521), (82, 54584), (92, 54716), (95, 54746), (97, 54770), (100, 54812), (102, 54827), (104, 54893), (106, 54908), (108, 54932), (113, 54950), (119, 55025), (123, 55088),

Gene: Mahavrat_94 Start: 51740, Stop: 53350, Start Num: 8
Candidate Starts for Mahavrat_94:
(5, 51554), (6, 51611), (Start: 8 @51740 has 42 MA's), (Start: 23 @51914 has 188 MA's), (Start: 28 @51926 has 1 MA's), (Start: 48 @52265 has 1 MA's), (51, 52367), (57, 52502), (59, 52532), (61, 52550), (73, 52673), (74, 52724), (82, 52787), (92, 52919), (95, 52949), (97, 52973), (100, 53015), (102, 53030), (104, 53096), (108, 53135), (113, 53153), (119, 53228),

Gene: Mandlovu_99 Start: 52676, Stop: 54115, Start Num: 23
Candidate Starts for Mandlovu_99:
(6, 52364), (Start: 8 @52493 has 42 MA's), (Start: 23 @52676 has 188 MA's), (27, 52685), (Start: 28 @52688 has 1 MA's), (Start: 48 @53030 has 1 MA's), (51, 53132), (57, 53267), (59, 53297), (61, 53315), (71, 53417), (72, 53435), (73, 53438), (74, 53489), (82, 53552), (92, 53684), (95, 53714), (97, 53738), (100, 53780), (102, 53795), (104, 53861), (106, 53876), (108, 53900), (113, 53918), (119, 53993), (123, 54056),

Gene: Mantra_98 Start: 53847, Stop: 55469, Start Num: 8
Candidate Starts for Mantra_98:
(Start: 8 @53847 has 42 MA's), (Start: 23 @54030 has 188 MA's), (27, 54039), (Start: 28 @54042 has 1 MA's), (Start: 48 @54384 has 1 MA's), (51, 54486), (57, 54621), (59, 54651), (61, 54669), (71, 54771), (72, 54789), (73, 54792), (74, 54843), (76, 54861), (82, 54906), (95, 55068), (97, 55092), (100, 55134), (102, 55149), (104, 55215), (108, 55254), (113, 55272), (119, 55347),

Gene: Maravista_99 Start: 56610, Stop: 58046, Start Num: 23
Candidate Starts for Maravista_99:
(Start: 23 @56610 has 188 MA's), (Start: 28 @56622 has 1 MA's), (Start: 48 @56961 has 1 MA's), (51, 57063), (59, 57228), (60, 57240), (66, 57300), (67, 57303), (71, 57348), (72, 57366), (73, 57369), (74, 57420), (78, 57450), (82, 57483), (95, 57645), (97, 57669), (100, 57711), (102, 57726), (104, 57792), (108, 57831), (113, 57849), (119, 57924),

Gene: Marker_106 Start: 55630, Stop: 57252, Start Num: 8
Candidate Starts for Marker_106:
(Start: 8 @55630 has 42 MA's), (Start: 23 @55813 has 188 MA's), (27, 55822), (Start: 28 @55825 has 1 MA's), (Start: 48 @56167 has 1 MA's), (51, 56269), (57, 56404), (59, 56434), (61, 56452), (67,

56509), (71, 56554), (72, 56572), (73, 56575), (74, 56626), (82, 56689), (92, 56821), (95, 56851), (97, 56875), (100, 56917), (102, 56932), (104, 56998), (108, 57037), (113, 57055), (119, 57130), (123, 57193),

Gene: Martik_100 Start: 56104, Stop: 57558, Start Num: 17
Candidate Starts for Martik_100:
(16, 56095), (Start: 17 @56104 has 2 MA's), (Start: 23 @56122 has 188 MA's), (Start: 28 @56134 has 1 MA's), (Start: 48 @56473 has 1 MA's), (51, 56575), (57, 56710), (59, 56740), (61, 56758), (71, 56860), (72, 56878), (73, 56881), (74, 56932), (76, 56950), (78, 56962), (82, 56995), (92, 57127), (95, 57157), (97, 57181), (100, 57223), (102, 57238), (108, 57343), (113, 57361), (119, 57436),

Gene: Mattes_102 Start: 55340, Stop: 56776, Start Num: 23
Candidate Starts for Mattes_102:
(Start: 23 @55340 has 188 MA's), (27, 55346), (Start: 28 @55349 has 1 MA's), (Start: 48 @55691 has 1 MA's), (51, 55793), (57, 55928), (59, 55958), (61, 55976), (71, 56078), (72, 56096), (73, 56099), (74, 56150), (76, 56168), (78, 56180), (82, 56213), (92, 56345), (95, 56375), (97, 56399), (100, 56441), (102, 56456), (108, 56561), (113, 56579), (119, 56654),

Gene: Medindi_106 Start: 55472, Stop: 56908, Start Num: 23
Candidate Starts for Medindi_106:
(6, 55169), (Start: 8 @55298 has 42 MA's), (Start: 14 @55415 has 1 MA's), (Start: 23 @55472 has 188 MA's), (Start: 28 @55484 has 1 MA's), (Start: 48 @55823 has 1 MA's), (51, 55925), (59, 56090), (67, 56165), (71, 56210), (73, 56231), (74, 56282), (78, 56312), (82, 56345), (92, 56477), (95, 56507), (97, 56531), (100, 56573), (102, 56588), (106, 56669), (108, 56693), (113, 56711), (119, 56786), (123, 56849), (124, 56852),

Gene: Melissauren88_91 Start: 51146, Stop: 52582, Start Num: 23
Candidate Starts for Melissauren88_91:
(6, 50843), (Start: 8 @50972 has 42 MA's), (Start: 23 @51146 has 188 MA's), (Start: 28 @51158 has 1 MA's), (Start: 48 @51497 has 1 MA's), (51, 51599), (59, 51764), (67, 51839), (71, 51884), (73, 51905), (74, 51956), (78, 51986), (82, 52019), (92, 52151), (95, 52181), (97, 52205), (100, 52247), (102, 52262), (106, 52343), (108, 52367), (113, 52385), (119, 52460), (123, 52523), (124, 52526),

Gene: MilanaBonita_94 Start: 53042, Stop: 54478, Start Num: 23
Candidate Starts for MilanaBonita_94:
(6, 52739), (Start: 8 @52868 has 42 MA's), (Start: 23 @53042 has 188 MA's), (Start: 28 @53054 has 1 MA's), (Start: 48 @53393 has 1 MA's), (51, 53495), (53, 53516), (59, 53660), (67, 53735), (71, 53780), (72, 53798), (73, 53801), (74, 53852), (78, 53882), (82, 53915), (92, 54047), (95, 54077), (97, 54101), (100, 54143), (102, 54158), (106, 54239), (108, 54263), (113, 54281), (119, 54356), (123, 54419), (124, 54422),

Gene: MilleniumForce_101 Start: 54849, Stop: 56285, Start Num: 23
Candidate Starts for MilleniumForce_101:
(6, 54546), (Start: 8 @54675 has 42 MA's), (Start: 23 @54849 has 188 MA's), (Start: 28 @54861 has 1 MA's), (Start: 48 @55200 has 1 MA's), (51, 55302), (59, 55467), (67, 55542), (71, 55587), (72, 55605), (73, 55608), (74, 55659), (82, 55722), (91, 55851), (92, 55854), (95, 55884), (97, 55908), (100, 55950), (102, 55965), (106, 56046), (108, 56070), (113, 56088), (119, 56163), (123, 56226), (124, 56229),

Gene: MinionDave_99 Start: 54815, Stop: 56254, Start Num: 23
Candidate Starts for MinionDave_99:
(Start: 23 @54815 has 188 MA's), (27, 54824), (Start: 28 @54827 has 1 MA's), (Start: 48 @55169 has 1 MA's), (51, 55271), (59, 55436), (67, 55511), (71, 55556), (72, 55574), (73, 55577), (74, 55628), (82, 55691), (92, 55823), (95, 55853), (97, 55877), (100, 55919), (102, 55934), (106, 56015), (108, 56039),

(113, 56057), (119, 56132), (123, 56195), (124, 56198),

Gene: Minnie_96 Start: 55752, Stop: 57188, Start Num: 23
Candidate Starts for Minnie_96:
(Start: 23 @55752 has 188 MA's), (27, 55761), (Start: 28 @55764 has 1 MA's), (Start: 48 @56103 has 1 MA's), (51, 56205), (57, 56340), (59, 56370), (61, 56388), (71, 56490), (72, 56508), (73, 56511), (74, 56562), (82, 56625), (95, 56787), (97, 56811), (100, 56853), (102, 56868), (104, 56934), (108, 56973), (113, 56991), (119, 57066),

Gene: Misha28_91 Start: 55106, Stop: 56542, Start Num: 23
Candidate Starts for Misha28_91:
(Start: 23 @55106 has 188 MA's), (Start: 48 @55457 has 1 MA's), (50, 55538), (51, 55559), (59, 55724), (70, 55841), (73, 55865), (74, 55916), (87, 56027), (92, 56111), (95, 56141), (97, 56165), (100, 56207), (102, 56222), (104, 56288), (106, 56303), (108, 56327), (113, 56345), (119, 56420), (123, 56483),

Gene: MisterCuddles_101 Start: 54991, Stop: 56427, Start Num: 23
Candidate Starts for MisterCuddles_101:
(Start: 8 @54817 has 42 MA's), (Start: 23 @54991 has 188 MA's), (Start: 28 @55003 has 1 MA's), (Start: 48 @55342 has 1 MA's), (51, 55444), (57, 55579), (59, 55609), (61, 55627), (71, 55729), (72, 55747), (73, 55750), (74, 55801), (76, 55819), (78, 55831), (82, 55864), (92, 55996), (95, 56026), (97, 56050), (100, 56092), (102, 56107), (104, 56173), (108, 56212), (113, 56230), (119, 56305),

Gene: MooMoo_94 Start: 52213, Stop: 53643, Start Num: 23
Candidate Starts for MooMoo_94:
(Start: 23 @52213 has 188 MA's), (27, 52222), (35, 52303), (39, 52363), (Start: 48 @52558 has 1 MA's), (51, 52660), (57, 52795), (59, 52825), (63, 52855), (70, 52942), (71, 52945), (72, 52963), (73, 52966), (74, 53017), (84, 53098), (92, 53212), (95, 53242), (97, 53266), (102, 53323), (108, 53428), (113, 53446), (119, 53521),

Gene: Moonbeam_104 Start: 55247, Stop: 56686, Start Num: 23
Candidate Starts for Moonbeam_104:
(Start: 23 @55247 has 188 MA's), (27, 55256), (Start: 28 @55259 has 1 MA's), (Start: 48 @55601 has 1 MA's), (51, 55703), (59, 55868), (71, 55988), (72, 56006), (73, 56009), (74, 56060), (78, 56090), (82, 56123), (92, 56255), (95, 56285), (97, 56309), (100, 56351), (102, 56366), (106, 56447), (108, 56471), (113, 56489), (119, 56564),

Gene: Mova_103 Start: 54779, Stop: 56215, Start Num: 23
Candidate Starts for Mova_103:
(6, 54476), (Start: 8 @54605 has 42 MA's), (Start: 23 @54779 has 188 MA's), (Start: 28 @54791 has 1 MA's), (Start: 48 @55130 has 1 MA's), (51, 55232), (59, 55397), (67, 55472), (71, 55517), (73, 55538), (74, 55589), (78, 55619), (82, 55652), (92, 55784), (95, 55814), (97, 55838), (100, 55880), (102, 55895), (106, 55976), (108, 56000), (113, 56018), (119, 56093), (123, 56156), (124, 56159),

Gene: Mozy_105 Start: 54414, Stop: 55850, Start Num: 23
Candidate Starts for Mozy_105:
(6, 54111), (Start: 8 @54240 has 42 MA's), (Start: 23 @54414 has 188 MA's), (Start: 28 @54426 has 1 MA's), (Start: 48 @54765 has 1 MA's), (51, 54867), (59, 55032), (67, 55107), (71, 55152), (73, 55173), (74, 55224), (78, 55254), (82, 55287), (92, 55419), (95, 55449), (97, 55473), (100, 55515), (102, 55530), (104, 55596), (108, 55635), (113, 55653), (119, 55728),

Gene: Ms6_103 Start: 51037, Stop: 52473, Start Num: 23
Candidate Starts for Ms6_103:

(6, 50734), (Start: 8 @50863 has 42 MA's), (Start: 23 @51037 has 188 MA's), (Start: 28 @51049 has 1 MA's), (Start: 48 @51388 has 1 MA's), (51, 51490), (53, 51511), (59, 51655), (67, 51730), (71, 51775), (73, 51796), (74, 51847), (78, 51877), (82, 51910), (92, 52042), (95, 52072), (97, 52096), (100, 52138), (102, 52153), (106, 52234), (108, 52258), (113, 52276), (119, 52351), (123, 52414), (124, 52417),

Gene: MulchExplorer_101 Start: 53678, Stop: 55114, Start Num: 23
Candidate Starts for MulchExplorer_101:
(Start: 8 @53495 has 42 MA's), (Start: 23 @53678 has 188 MA's), (26, 53684), (Start: 28 @53687 has 1 MA's), (Start: 48 @54029 has 1 MA's), (51, 54131), (59, 54296), (67, 54371), (71, 54416), (73, 54437), (74, 54488), (78, 54518), (82, 54551), (92, 54683), (95, 54713), (97, 54737), (100, 54779), (102, 54794), (106, 54875), (108, 54899), (113, 54917), (119, 54992), (123, 55055), (124, 55058),

Gene: MulchSalad_99 Start: 55680, Stop: 57119, Start Num: 23
Candidate Starts for MulchSalad_99:
(Start: 23 @55680 has 188 MA's), (27, 55689), (Start: 28 @55692 has 1 MA's), (Start: 48 @56034 has 1 MA's), (51, 56136), (57, 56271), (59, 56301), (61, 56319), (67, 56376), (71, 56421), (72, 56439), (73, 56442), (74, 56493), (82, 56556), (92, 56688), (95, 56718), (97, 56742), (100, 56784), (102, 56799), (106, 56880), (108, 56904), (113, 56922), (119, 56997), (123, 57060), (124, 57063),

Gene: Mutaforma13_102 Start: 54449, Stop: 55885, Start Num: 23
Candidate Starts for Mutaforma13_102:
(Start: 23 @54449 has 188 MA's), (Start: 28 @54461 has 1 MA's), (Start: 48 @54800 has 1 MA's), (51, 54902), (57, 55037), (59, 55067), (61, 55085), (67, 55142), (71, 55187), (72, 55205), (73, 55208), (74, 55259), (82, 55322), (92, 55454), (95, 55484), (97, 55508), (100, 55550), (102, 55565), (104, 55631), (106, 55646), (108, 55670), (113, 55688), (119, 55763),

Gene: Mwanjiwa_104 Start: 55851, Stop: 57287, Start Num: 23
Candidate Starts for Mwanjiwa_104:
(5, 55491), (6, 55548), (Start: 8 @55677 has 42 MA's), (Start: 23 @55851 has 188 MA's), (Start: 28 @55863 has 1 MA's), (Start: 48 @56202 has 1 MA's), (50, 56283), (51, 56304), (59, 56469), (61, 56487), (73, 56610), (74, 56661), (82, 56724), (90, 56847), (92, 56856), (95, 56886), (97, 56910), (100, 56952), (102, 56967), (104, 57033), (108, 57072), (113, 57090), (119, 57165), (123, 57228),

Gene: Myrna_234 Start: 135813, Stop: 137252, Start Num: 31
Candidate Starts for Myrna_234:
(10, 135681), (11, 135690), (13, 135702), (19, 135768), (22, 135780), (25, 135786), (30, 135801), (Start: 31 @135813 has 1 MA's), (33, 135828), (38, 135936), (41, 136020), (44, 136056), (Start: 48 @136158 has 1 MA's), (51, 136269), (55, 136311), (56, 136398), (58, 136407), (59, 136434), (62, 136464), (64, 136482), (67, 136509), (69, 136560), (72, 136584), (73, 136587), (74, 136638), (76, 136656), (81, 136698), (82, 136701), (92, 136845), (95, 136875), (97, 136899), (99, 136938), (101, 136950), (102, 136956), (105, 137028), (107, 137052), (108, 137055), (113, 137073), (118, 137127),

Gene: NewHope4_108 Start: 53983, Stop: 55593, Start Num: 8
Candidate Starts for NewHope4_108:
(Start: 8 @53983 has 42 MA's), (Start: 23 @54157 has 188 MA's), (Start: 28 @54169 has 1 MA's), (Start: 48 @54508 has 1 MA's), (51, 54610), (57, 54745), (59, 54775), (61, 54793), (67, 54850), (71, 54895), (72, 54913), (73, 54916), (74, 54967), (82, 55030), (92, 55162), (95, 55192), (97, 55216), (100, 55258), (102, 55273), (104, 55339), (106, 55354), (108, 55378), (113, 55396), (119, 55471),

Gene: Nimbo_93 Start: 53004, Stop: 54440, Start Num: 23
Candidate Starts for Nimbo_93:
(Start: 23 @53004 has 188 MA's), (27, 53010), (Start: 28 @53013 has 1 MA's), (Start: 48 @53355 has 1 MA's), (51, 53457), (57, 53592), (59, 53622), (61, 53640), (71, 53742), (72, 53760), (73, 53763), (74,

53814), (76, 53832), (78, 53844), (82, 53877), (92, 54009), (95, 54039), (97, 54063), (100, 54105), (102, 54120), (104, 54186), (108, 54225), (113, 54243), (119, 54318),

Gene: Nitzel_95 Start: 51587, Stop: 53041, Start Num: 17
Candidate Starts for Nitzel_95:
(16, 51578), (Start: 17 @51587 has 2 MA's), (Start: 23 @51605 has 188 MA's), (Start: 28 @51617 has 1 MA's), (Start: 48 @51956 has 1 MA's), (51, 52058), (59, 52223), (61, 52241), (67, 52298), (71, 52343), (72, 52361), (73, 52364), (74, 52415), (82, 52478), (92, 52610), (95, 52640), (97, 52664), (100, 52706), (102, 52721), (104, 52787), (106, 52802), (108, 52826), (113, 52844), (119, 52919),

Gene: Nivrat_101 Start: 55276, Stop: 56712, Start Num: 23
Candidate Starts for Nivrat_101:
(Start: 23 @55276 has 188 MA's), (27, 55285), (Start: 28 @55288 has 1 MA's), (Start: 48 @55627 has 1 MA's), (51, 55729), (57, 55864), (59, 55894), (61, 55912), (71, 56014), (72, 56032), (73, 56035), (74, 56086), (78, 56116), (82, 56149), (92, 56281), (95, 56311), (97, 56335), (100, 56377), (102, 56392), (106, 56473), (108, 56497), (113, 56515), (119, 56590), (123, 56653), (124, 56656),

Gene: NormanBulbieJr_99 Start: 55370, Stop: 56806, Start Num: 23
Candidate Starts for NormanBulbieJr_99:
(6, 55067), (Start: 8 @55196 has 42 MA's), (Start: 23 @55370 has 188 MA's), (Start: 28 @55382 has 1 MA's), (Start: 48 @55721 has 1 MA's), (51, 55823), (59, 55988), (61, 56006), (73, 56129), (74, 56180), (78, 56210), (82, 56243), (92, 56375), (95, 56405), (97, 56429), (100, 56471), (102, 56486), (104, 56552), (108, 56591), (113, 56609), (119, 56684),

Gene: Ogopogo_105 Start: 53609, Stop: 55048, Start Num: 23
Candidate Starts for Ogopogo_105:
(Start: 23 @53609 has 188 MA's), (27, 53618), (Start: 28 @53621 has 1 MA's), (Start: 48 @53963 has 1 MA's), (51, 54065), (57, 54200), (59, 54230), (61, 54248), (67, 54305), (71, 54350), (72, 54368), (73, 54371), (74, 54422), (78, 54452), (82, 54485), (92, 54617), (95, 54647), (97, 54671), (100, 54713), (102, 54728), (104, 54794), (106, 54809), (108, 54833), (113, 54851), (119, 54926),

Gene: Okabe_93 Start: 50824, Stop: 52260, Start Num: 23
Candidate Starts for Okabe_93:
(6, 50521), (Start: 8 @50650 has 42 MA's), (Start: 23 @50824 has 188 MA's), (Start: 28 @50836 has 1 MA's), (Start: 48 @51175 has 1 MA's), (51, 51277), (53, 51298), (59, 51442), (67, 51517), (71, 51562), (73, 51583), (74, 51634), (78, 51664), (82, 51697), (92, 51829), (95, 51859), (97, 51883), (100, 51925), (102, 51940), (106, 52021), (108, 52045), (113, 52063), (119, 52138), (123, 52201), (124, 52204),

Gene: OldBen_98 Start: 54396, Stop: 55832, Start Num: 23
Candidate Starts for OldBen_98:
(Start: 23 @54396 has 188 MA's), (27, 54402), (Start: 28 @54405 has 1 MA's), (Start: 48 @54747 has 1 MA's), (51, 54849), (57, 54984), (59, 55014), (61, 55032), (71, 55134), (72, 55152), (73, 55155), (74, 55206), (76, 55224), (78, 55236), (82, 55269), (92, 55401), (95, 55431), (97, 55455), (100, 55497), (102, 55512), (104, 55578), (108, 55617), (113, 55635), (119, 55710),

Gene: OlympiaSaint_105 Start: 55560, Stop: 56996, Start Num: 23
Candidate Starts for OlympiaSaint_105:
(5, 55200), (6, 55257), (Start: 8 @55386 has 42 MA's), (Start: 23 @55560 has 188 MA's), (Start: 28 @55572 has 1 MA's), (Start: 48 @55911 has 1 MA's), (51, 56013), (59, 56178), (73, 56319), (74, 56370), (78, 56400), (82, 56433), (92, 56565), (95, 56595), (97, 56619), (100, 56661), (102, 56676), (106, 56757), (108, 56781), (113, 56799), (119, 56874), (123, 56937),

Gene: Ovechkin_103 Start: 54912, Stop: 56522, Start Num: 8

Candidate Starts for Ovechkin_103:
(5, 54726), (6, 54783), (Start: 8 @54912 has 42 MA's), (Start: 23 @55086 has 188 MA's), (Start: 28 @55098 has 1 MA's), (Start: 48 @55437 has 1 MA's), (51, 55539), (57, 55674), (59, 55704), (61, 55722), (67, 55779), (71, 55824), (72, 55842), (73, 55845), (74, 55896), (82, 55959), (92, 56091), (95, 56121), (97, 56145), (100, 56187), (102, 56202), (104, 56268), (106, 56283), (108, 56307), (113, 56325), (119, 56400),

Gene: OwlsT2W_98 Start: 53116, Stop: 54726, Start Num: 8
Candidate Starts for OwlsT2W_98:
(6, 52987), (Start: 8 @53116 has 42 MA's), (Start: 23 @53290 has 188 MA's), (Start: 28 @53302 has 1 MA's), (Start: 48 @53641 has 1 MA's), (51, 53743), (59, 53908), (67, 53983), (71, 54028), (72, 54046), (73, 54049), (74, 54100), (82, 54163), (92, 54295), (95, 54325), (97, 54349), (100, 54391), (102, 54406), (104, 54472), (108, 54511), (113, 54529), (119, 54604),

Gene: PHappiness_101 Start: 55225, Stop: 56661, Start Num: 23
Candidate Starts for PHappiness_101:
(Start: 23 @55225 has 188 MA's), (27, 55231), (Start: 28 @55234 has 1 MA's), (Start: 48 @55576 has 1 MA's), (51, 55678), (57, 55813), (59, 55843), (61, 55861), (71, 55963), (72, 55981), (73, 55984), (74, 56035), (76, 56053), (78, 56065), (82, 56098), (92, 56230), (95, 56260), (97, 56284), (100, 56326), (102, 56341), (104, 56407), (108, 56446), (113, 56464), (119, 56539),

Gene: PMC_100 Start: 53440, Stop: 54876, Start Num: 23
Candidate Starts for PMC_100:
(Start: 23 @53440 has 188 MA's), (27, 53449), (Start: 28 @53452 has 1 MA's), (Start: 48 @53791 has 1 MA's), (51, 53893), (57, 54028), (59, 54058), (61, 54076), (67, 54133), (71, 54178), (72, 54196), (73, 54199), (74, 54250), (82, 54313), (92, 54445), (95, 54475), (97, 54499), (100, 54541), (102, 54556), (104, 54622), (108, 54661), (113, 54679), (119, 54754),

Gene: Pacc40_98 Start: 55635, Stop: 57257, Start Num: 8
Candidate Starts for Pacc40_98:
(Start: 8 @55635 has 42 MA's), (Start: 23 @55818 has 188 MA's), (27, 55827), (Start: 28 @55830 has 1 MA's), (Start: 48 @56172 has 1 MA's), (51, 56274), (59, 56439), (61, 56457), (71, 56559), (72, 56577), (73, 56580), (74, 56631), (82, 56694), (92, 56826), (95, 56856), (97, 56880), (100, 56922), (102, 56937), (104, 57003), (108, 57042), (113, 57060), (119, 57135),

Gene: PatoPoderoso_102 Start: 57012, Stop: 58448, Start Num: 23
Candidate Starts for PatoPoderoso_102:
(6, 56709), (Start: 8 @56838 has 42 MA's), (Start: 23 @57012 has 188 MA's), (Start: 28 @57024 has 1 MA's), (Start: 48 @57363 has 1 MA's), (51, 57465), (59, 57630), (71, 57750), (72, 57768), (73, 57771), (74, 57822), (78, 57852), (82, 57885), (92, 58017), (95, 58047), (97, 58071), (100, 58113), (102, 58128), (106, 58209), (108, 58233), (113, 58251), (119, 58326), (123, 58389), (124, 58392),

Gene: Peridot_105 Start: 54809, Stop: 56248, Start Num: 23
Candidate Starts for Peridot_105:
(Start: 23 @54809 has 188 MA's), (27, 54818), (Start: 28 @54821 has 1 MA's), (Start: 48 @55163 has 1 MA's), (51, 55265), (59, 55430), (71, 55550), (72, 55568), (73, 55571), (74, 55622), (78, 55652), (82, 55685), (92, 55817), (95, 55847), (97, 55871), (100, 55913), (102, 55928), (108, 56033), (113, 56051), (119, 56126),

Gene: Phalconet_102 Start: 54439, Stop: 55875, Start Num: 23
Candidate Starts for Phalconet_102:
(6, 54136), (Start: 8 @54265 has 42 MA's), (Start: 23 @54439 has 188 MA's), (Start: 28 @54451 has 1 MA's), (Start: 48 @54790 has 1 MA's), (51, 54892), (53, 54913), (59, 55057), (67, 55132), (71, 55177),

(73, 55198), (74, 55249), (82, 55312), (92, 55444), (95, 55474), (97, 55498), (100, 55540), (102, 55555), (106, 55636), (108, 55660), (113, 55678), (119, 55753), (123, 55816), (124, 55819),

Gene: Phanphagia_106 Start: 56194, Stop: 57630, Start Num: 23
Candidate Starts for Phanphagia_106:
(6, 55891), (Start: 8 @56020 has 42 MA's), (Start: 23 @56194 has 188 MA's), (Start: 28 @56206 has 1 MA's), (Start: 48 @56545 has 1 MA's), (51, 56647), (59, 56812), (73, 56953), (74, 57004), (78, 57034), (82, 57067), (92, 57199), (95, 57229), (97, 57253), (100, 57295), (102, 57310), (106, 57391), (108, 57415), (113, 57433), (119, 57508), (123, 57571), (124, 57574),

Gene: Phasih_97 Start: 53206, Stop: 54828, Start Num: 8
Candidate Starts for Phasih_97:
(Start: 8 @53206 has 42 MA's), (Start: 23 @53389 has 188 MA's), (27, 53398), (Start: 28 @53401 has 1 MA's), (Start: 48 @53743 has 1 MA's), (51, 53845), (57, 53980), (59, 54010), (61, 54028), (71, 54130), (72, 54148), (73, 54151), (74, 54202), (82, 54265), (92, 54397), (95, 54427), (97, 54451), (100, 54493), (102, 54508), (106, 54589), (108, 54613), (113, 54631), (119, 54706), (123, 54769), (124, 54772),

Gene: Phatniss_98 Start: 53597, Stop: 55207, Start Num: 8
Candidate Starts for Phatniss_98:
(6, 53468), (Start: 8 @53597 has 42 MA's), (Start: 23 @53771 has 188 MA's), (Start: 28 @53783 has 1 MA's), (Start: 48 @54122 has 1 MA's), (51, 54224), (59, 54389), (67, 54464), (71, 54509), (73, 54530), (74, 54581), (78, 54611), (82, 54644), (92, 54776), (95, 54806), (97, 54830), (100, 54872), (102, 54887), (104, 54953), (108, 54992), (113, 55010), (119, 55085),

Gene: PhesterPhotato_105 Start: 54413, Stop: 55849, Start Num: 23
Candidate Starts for PhesterPhotato_105:
(6, 54110), (Start: 8 @54239 has 42 MA's), (Start: 23 @54413 has 188 MA's), (Start: 28 @54425 has 1 MA's), (Start: 48 @54764 has 1 MA's), (51, 54866), (59, 55031), (67, 55106), (71, 55151), (73, 55172), (74, 55223), (78, 55253), (82, 55286), (92, 55418), (95, 55448), (97, 55472), (100, 55514), (102, 55529), (106, 55610), (108, 55634), (113, 55652), (119, 55727), (123, 55790), (124, 55793),

Gene: Philus_105 Start: 56501, Stop: 57937, Start Num: 23
Candidate Starts for Philus_105:
(6, 56198), (Start: 8 @56327 has 42 MA's), (Start: 23 @56501 has 188 MA's), (Start: 28 @56513 has 1 MA's), (Start: 48 @56852 has 1 MA's), (51, 56954), (59, 57119), (67, 57194), (71, 57239), (72, 57257), (73, 57260), (74, 57311), (82, 57374), (92, 57506), (95, 57536), (97, 57560), (100, 57602), (102, 57617), (106, 57698), (108, 57722), (113, 57740), (119, 57815), (123, 57878), (124, 57881),

Gene: PhlipPhlop_90 Start: 55677, Stop: 57287, Start Num: 8
Candidate Starts for PhlipPhlop_90:
(Start: 8 @55677 has 42 MA's), (Start: 23 @55851 has 188 MA's), (Start: 28 @55863 has 1 MA's), (Start: 48 @56202 has 1 MA's), (51, 56304), (57, 56439), (59, 56469), (67, 56544), (71, 56589), (73, 56610), (74, 56661), (78, 56691), (82, 56724), (92, 56856), (95, 56886), (97, 56910), (100, 56952), (102, 56967), (104, 57033), (108, 57072), (113, 57090), (119, 57165),

Gene: Piper2020_96 Start: 55354, Stop: 56790, Start Num: 23
Candidate Starts for Piper2020_96:
(Start: 23 @55354 has 188 MA's), (Start: 48 @55705 has 1 MA's), (50, 55786), (51, 55807), (59, 55972), (70, 56089), (73, 56113), (74, 56164), (87, 56275), (92, 56359), (95, 56389), (97, 56413), (100, 56455), (102, 56470), (104, 56536), (106, 56551), (108, 56575), (113, 56593), (119, 56668), (123, 56731),

Gene: Pippy_100 Start: 53930, Stop: 55366, Start Num: 23
Candidate Starts for Pippy_100:
(Start: 23 @53930 has 188 MA's), (Start: 28 @53942 has 1 MA's), (Start: 48 @54281 has 1 MA's), (51, 54383), (53, 54404), (57, 54518), (59, 54548), (67, 54623), (71, 54668), (72, 54686), (73, 54689), (74, 54740), (78, 54770), (82, 54803), (92, 54935), (95, 54965), (97, 54989), (100, 55031), (102, 55046), (104, 55112), (108, 55151), (113, 55169), (119, 55244),

Gene: Plumbus_100 Start: 52121, Stop: 53560, Start Num: 23
Candidate Starts for Plumbus_100:
(Start: 23 @52121 has 188 MA's), (27, 52130), (Start: 28 @52133 has 1 MA's), (Start: 48 @52475 has 1 MA's), (51, 52577), (57, 52712), (59, 52742), (61, 52760), (67, 52817), (71, 52862), (72, 52880), (73, 52883), (74, 52934), (82, 52997), (92, 53129), (95, 53159), (97, 53183), (100, 53225), (102, 53240), (104, 53306), (108, 53345), (113, 53363), (119, 53438),

Gene: Poenanya_105 Start: 55933, Stop: 57369, Start Num: 23
Candidate Starts for Poenanya_105:
(Start: 23 @55933 has 188 MA's), (26, 55939), (Start: 28 @55942 has 1 MA's), (Start: 48 @56284 has 1 MA's), (51, 56386), (57, 56521), (59, 56551), (61, 56569), (67, 56626), (71, 56671), (72, 56689), (73, 56692), (74, 56743), (82, 56806), (92, 56938), (95, 56968), (97, 56992), (100, 57034), (102, 57049), (104, 57115), (106, 57130), (108, 57154), (113, 57172), (119, 57247), (123, 57310),

Gene: Polka14_105 Start: 55994, Stop: 57430, Start Num: 23
Candidate Starts for Polka14_105:
(Start: 23 @55994 has 188 MA's), (27, 56000), (Start: 28 @56003 has 1 MA's), (Start: 48 @56345 has 1 MA's), (51, 56447), (57, 56582), (59, 56612), (61, 56630), (71, 56732), (72, 56750), (73, 56753), (74, 56804), (76, 56822), (78, 56834), (82, 56867), (92, 56999), (95, 57029), (97, 57053), (100, 57095), (102, 57110), (104, 57176), (108, 57215), (113, 57233), (119, 57308),

Gene: Pollywog_103 Start: 56052, Stop: 57488, Start Num: 23
Candidate Starts for Pollywog_103:
(Start: 23 @56052 has 188 MA's), (27, 56058), (Start: 28 @56061 has 1 MA's), (Start: 48 @56403 has 1 MA's), (51, 56505), (57, 56640), (59, 56670), (61, 56688), (71, 56790), (72, 56808), (73, 56811), (74, 56862), (82, 56925), (95, 57087), (97, 57111), (100, 57153), (102, 57168), (104, 57234), (108, 57273), (113, 57291), (119, 57366),

Gene: Polo2Bam_112 Start: 53837, Stop: 55447, Start Num: 8
Candidate Starts for Polo2Bam_112:
(Start: 8 @53837 has 42 MA's), (Start: 23 @54011 has 188 MA's), (Start: 28 @54023 has 1 MA's), (Start: 48 @54362 has 1 MA's), (51, 54464), (57, 54599), (59, 54629), (61, 54647), (67, 54704), (71, 54749), (72, 54767), (73, 54770), (74, 54821), (82, 54884), (92, 55016), (95, 55046), (97, 55070), (100, 55112), (102, 55127), (104, 55193), (106, 55208), (108, 55232), (113, 55250), (119, 55325),

Gene: PopTart_91 Start: 51669, Stop: 53279, Start Num: 8
Candidate Starts for PopTart_91:
(6, 51540), (Start: 8 @51669 has 42 MA's), (Start: 23 @51843 has 188 MA's), (Start: 28 @51855 has 1 MA's), (Start: 48 @52194 has 1 MA's), (51, 52296), (57, 52431), (59, 52461), (61, 52479), (71, 52581), (72, 52599), (73, 52602), (74, 52653), (82, 52716), (87, 52764), (92, 52848), (95, 52878), (97, 52902), (100, 52944), (102, 52959), (104, 53025), (106, 53040), (108, 53064), (113, 53082), (119, 53157),

Gene: Priscilla_102 Start: 55468, Stop: 56904, Start Num: 23
Candidate Starts for Priscilla_102:
(6, 55165), (Start: 8 @55294 has 42 MA's), (Start: 23 @55468 has 188 MA's), (Start: 28 @55480 has 1 MA's), (Start: 48 @55819 has 1 MA's), (51, 55921), (59, 56086), (61, 56104), (73, 56227), (74, 56278),

(78, 56308), (82, 56341), (92, 56473), (95, 56503), (97, 56527), (100, 56569), (102, 56584), (104, 56650), (108, 56689), (113, 56707), (119, 56782),

Gene: QueenHazel_70 Start: 45079, Stop: 46515, Start Num: 23
Candidate Starts for QueenHazel_70:
(Start: 23 @45079 has 188 MA's), (27, 45088), (32, 45112), (Start: 48 @45430 has 1 MA's), (51, 45532), (53, 45553), (59, 45697), (63, 45727), (67, 45772), (71, 45817), (73, 45838), (74, 45889), (84, 45970), (90, 46075), (92, 46084), (95, 46114), (97, 46138), (102, 46195), (108, 46300), (113, 46318), (119, 46393),

Gene: QuickMath_102 Start: 54314, Stop: 55753, Start Num: 23
Candidate Starts for QuickMath_102:
(Start: 23 @54314 has 188 MA's), (27, 54323), (Start: 28 @54326 has 1 MA's), (Start: 48 @54668 has 1 MA's), (51, 54770), (59, 54935), (67, 55010), (71, 55055), (72, 55073), (73, 55076), (74, 55127), (78, 55157), (82, 55190), (92, 55322), (95, 55352), (97, 55376), (100, 55418), (102, 55433), (106, 55514), (108, 55538), (113, 55556), (119, 55631), (123, 55694), (124, 55697),

Gene: Quico_110 Start: 56322, Stop: 57758, Start Num: 23
Candidate Starts for Quico_110:
(5, 55962), (6, 56019), (Start: 8 @56148 has 42 MA's), (Start: 23 @56322 has 188 MA's), (Start: 28 @56334 has 1 MA's), (Start: 48 @56673 has 1 MA's), (51, 56775), (57, 56910), (59, 56940), (61, 56958), (71, 57060), (72, 57078), (73, 57081), (74, 57132), (78, 57162), (82, 57195), (92, 57327), (95, 57357), (97, 57381), (100, 57423), (102, 57438), (106, 57519), (108, 57543), (113, 57561), (119, 57636), (123, 57699),

Gene: Radiance_99 Start: 54337, Stop: 55773, Start Num: 23
Candidate Starts for Radiance_99:
(Start: 23 @54337 has 188 MA's), (27, 54343), (Start: 28 @54346 has 1 MA's), (Start: 48 @54688 has 1 MA's), (51, 54790), (57, 54925), (59, 54955), (67, 55030), (71, 55075), (73, 55096), (74, 55147), (76, 55165), (78, 55177), (82, 55210), (92, 55342), (95, 55372), (97, 55396), (100, 55438), (102, 55453), (104, 55519), (108, 55558), (113, 55576), (119, 55651),

Gene: Ramsey_106 Start: 56233, Stop: 57669, Start Num: 23
Candidate Starts for Ramsey_106:
(Start: 23 @56233 has 188 MA's), (27, 56242), (Start: 28 @56245 has 1 MA's), (Start: 48 @56584 has 1 MA's), (51, 56686), (57, 56821), (59, 56851), (61, 56869), (67, 56926), (71, 56971), (72, 56989), (73, 56992), (74, 57043), (82, 57106), (92, 57238), (95, 57268), (97, 57292), (100, 57334), (102, 57349), (104, 57415), (106, 57430), (108, 57454), (113, 57472), (119, 57547), (123, 57610),

Gene: RedBird_102 Start: 55972, Stop: 57408, Start Num: 23
Candidate Starts for RedBird_102:
(Start: 23 @55972 has 188 MA's), (27, 55978), (Start: 28 @55981 has 1 MA's), (Start: 48 @56323 has 1 MA's), (51, 56425), (57, 56560), (59, 56590), (61, 56608), (71, 56710), (72, 56728), (73, 56731), (74, 56782), (76, 56800), (78, 56812), (82, 56845), (92, 56977), (95, 57007), (97, 57031), (100, 57073), (102, 57088), (104, 57154), (108, 57193), (113, 57211), (119, 57286),

Gene: Renaud18_110 Start: 55509, Stop: 56948, Start Num: 24
Candidate Starts for Renaud18_110:
(18, 55485), (20, 55494), (Start: 24 @55509 has 1 MA's), (34, 55578), (36, 55650), (44, 55764), (47, 55842), (53, 55989), (59, 56133), (61, 56151), (77, 56343), (78, 56352), (79, 56358), (80, 56379), (81, 56382), (83, 56400), (86, 56433), (88, 56451), (89, 56457), (92, 56517), (99, 56613), (100, 56616), (102, 56631), (107, 56733), (108, 56736), (110, 56745), (114, 56775), (118, 56817), (119, 56826), (121, 56841), (125, 56898),

Gene: Rialto_106 Start: 55588, Stop: 57027, Start Num: 23
Candidate Starts for Rialto_106:
(Start: 23 @55588 has 188 MA's), (27, 55597), (Start: 28 @55600 has 1 MA's), (Start: 48 @55942 has 1 MA's), (51, 56044), (59, 56209), (71, 56329), (72, 56347), (73, 56350), (74, 56401), (78, 56431), (82, 56464), (92, 56596), (95, 56626), (97, 56650), (100, 56692), (102, 56707), (108, 56812), (113, 56830), (119, 56905),

Gene: Rita_101 Start: 56038, Stop: 57474, Start Num: 23
Candidate Starts for Rita_101:
(6, 55735), (Start: 8 @55864 has 42 MA's), (Start: 23 @56038 has 188 MA's), (Start: 28 @56050 has 1 MA's), (Start: 48 @56389 has 1 MA's), (51, 56491), (59, 56656), (73, 56797), (74, 56848), (78, 56878), (82, 56911), (92, 57043), (95, 57073), (97, 57097), (100, 57139), (102, 57154), (106, 57235), (108, 57259), (113, 57277), (119, 57352), (123, 57415),

Gene: RitaG_100 Start: 55027, Stop: 56463, Start Num: 23
Candidate Starts for RitaG_100:
(Start: 23 @55027 has 188 MA's), (27, 55033), (Start: 28 @55036 has 1 MA's), (Start: 48 @55378 has 1 MA's), (51, 55480), (57, 55615), (59, 55645), (61, 55663), (71, 55765), (72, 55783), (73, 55786), (74, 55837), (76, 55855), (78, 55867), (82, 55900), (92, 56032), (95, 56062), (97, 56086), (100, 56128), (102, 56143), (104, 56209), (108, 56248), (113, 56266), (119, 56341),

Gene: Rockne_104 Start: 53452, Stop: 54888, Start Num: 23
Candidate Starts for Rockne_104:
(Start: 23 @53452 has 188 MA's), (27, 53461), (Start: 28 @53464 has 1 MA's), (Start: 48 @53803 has 1 MA's), (51, 53905), (57, 54040), (59, 54070), (61, 54088), (67, 54145), (71, 54190), (72, 54208), (73, 54211), (74, 54262), (82, 54325), (92, 54457), (95, 54487), (97, 54511), (100, 54553), (102, 54568), (104, 54634), (108, 54673), (113, 54691), (119, 54766),

Gene: RockyHorror_104 Start: 53953, Stop: 55575, Start Num: 8
Candidate Starts for RockyHorror_104:
(Start: 8 @53953 has 42 MA's), (Start: 23 @54136 has 188 MA's), (27, 54145), (Start: 28 @54148 has 1 MA's), (Start: 48 @54490 has 1 MA's), (51, 54592), (57, 54727), (59, 54757), (61, 54775), (71, 54877), (72, 54895), (73, 54898), (74, 54949), (76, 54967), (82, 55012), (95, 55174), (97, 55198), (100, 55240), (102, 55255), (104, 55321), (108, 55360), (113, 55378), (119, 55453),

Gene: Royals2015_105 Start: 53573, Stop: 55009, Start Num: 23
Candidate Starts for Royals2015_105:
(6, 53270), (Start: 8 @53399 has 42 MA's), (Start: 23 @53573 has 188 MA's), (Start: 28 @53585 has 1 MA's), (Start: 48 @53924 has 1 MA's), (51, 54026), (59, 54191), (67, 54266), (71, 54311), (72, 54329), (73, 54332), (74, 54383), (78, 54413), (82, 54446), (92, 54578), (95, 54608), (97, 54632), (100, 54674), (102, 54689), (106, 54770), (108, 54794), (113, 54812), (119, 54887), (123, 54950), (124, 54953),

Gene: Ruby_97 Start: 54819, Stop: 56429, Start Num: 8
Candidate Starts for Ruby_97:
(6, 54690), (Start: 8 @54819 has 42 MA's), (Start: 23 @54993 has 188 MA's), (Start: 28 @55005 has 1 MA's), (Start: 48 @55344 has 1 MA's), (51, 55446), (57, 55581), (59, 55611), (61, 55629), (71, 55731), (72, 55749), (73, 55752), (74, 55803), (82, 55866), (92, 55998), (95, 56028), (97, 56052), (100, 56094), (102, 56109), (104, 56175), (108, 56214), (113, 56232), (119, 56307),

Gene: SG4_102 Start: 55807, Stop: 57243, Start Num: 23
Candidate Starts for SG4_102:

(6, 55504), (Start: 8 @55633 has 42 MA's), (Start: 23 @55807 has 188 MA's), (Start: 28 @55819 has 1 MA's), (Start: 48 @56158 has 1 MA's), (51, 56260), (59, 56425), (67, 56500), (71, 56545), (72, 56563), (73, 56566), (74, 56617), (78, 56647), (82, 56680), (92, 56812), (95, 56842), (97, 56866), (100, 56908), (102, 56923), (106, 57004), (108, 57028), (113, 57046), (119, 57121), (123, 57184), (124, 57187),

Gene: Saal_99 Start: 55042, Stop: 56478, Start Num: 23
Candidate Starts for Saal_99:
(Start: 23 @55042 has 188 MA's), (26, 55048), (Start: 28 @55051 has 1 MA's), (Start: 48 @55393 has 1 MA's), (51, 55495), (57, 55630), (59, 55660), (61, 55678), (71, 55780), (72, 55798), (73, 55801), (74, 55852), (76, 55870), (78, 55882), (82, 55915), (92, 56047), (95, 56077), (97, 56101), (100, 56143), (102, 56158), (106, 56239), (108, 56263), (113, 56281), (119, 56356), (123, 56419),

Gene: Sabbb_104 Start: 52998, Stop: 54434, Start Num: 23
Candidate Starts for Sabbb_104:
(6, 52695), (Start: 8 @52824 has 42 MA's), (Start: 23 @52998 has 188 MA's), (Start: 28 @53010 has 1 MA's), (Start: 48 @53349 has 1 MA's), (51, 53451), (53, 53472), (59, 53616), (61, 53634), (67, 53691), (71, 53736), (72, 53754), (73, 53757), (74, 53808), (78, 53838), (82, 53871), (92, 54003), (95, 54033), (97, 54057), (100, 54099), (102, 54114), (104, 54180), (108, 54219), (113, 54237), (119, 54312),

Gene: Sandalphon_100 Start: 55851, Stop: 57461, Start Num: 8
Candidate Starts for Sandalphon_100:
(5, 55665), (6, 55722), (Start: 8 @55851 has 42 MA's), (Start: 23 @56025 has 188 MA's), (Start: 28 @56037 has 1 MA's), (Start: 48 @56376 has 1 MA's), (51, 56478), (59, 56643), (71, 56763), (72, 56781), (73, 56784), (74, 56835), (82, 56898), (95, 57060), (97, 57084), (100, 57126), (102, 57141), (104, 57207), (108, 57246), (113, 57264), (119, 57339),

Gene: Sarma624_103 Start: 51967, Stop: 53403, Start Num: 23
Candidate Starts for Sarma624_103:
(6, 51664), (Start: 8 @51793 has 42 MA's), (Start: 23 @51967 has 188 MA's), (Start: 28 @51979 has 1 MA's), (Start: 48 @52318 has 1 MA's), (51, 52420), (59, 52585), (73, 52726), (74, 52777), (78, 52807), (82, 52840), (92, 52972), (95, 53002), (97, 53026), (100, 53068), (102, 53083), (106, 53164), (108, 53188), (113, 53206), (119, 53281), (123, 53344),

Gene: Sassafras_103 Start: 54289, Stop: 55725, Start Num: 23
Candidate Starts for Sassafras_103:
(Start: 23 @54289 has 188 MA's), (27, 54295), (Start: 28 @54298 has 1 MA's), (Start: 48 @54640 has 1 MA's), (51, 54742), (57, 54877), (59, 54907), (61, 54925), (71, 55027), (72, 55045), (73, 55048), (74, 55099), (76, 55117), (78, 55129), (82, 55162), (92, 55294), (95, 55324), (97, 55348), (100, 55390), (102, 55405), (104, 55471), (108, 55510), (113, 55528), (119, 55603),

Gene: SassyB_91 Start: 51669, Stop: 53279, Start Num: 8
Candidate Starts for SassyB_91:
(6, 51540), (Start: 8 @51669 has 42 MA's), (Start: 23 @51843 has 188 MA's), (Start: 28 @51855 has 1 MA's), (Start: 48 @52194 has 1 MA's), (51, 52296), (57, 52431), (59, 52461), (61, 52479), (71, 52581), (72, 52599), (73, 52602), (74, 52653), (82, 52716), (87, 52764), (92, 52848), (95, 52878), (97, 52902), (100, 52944), (102, 52959), (104, 53025), (106, 53040), (108, 53064), (113, 53082), (119, 53157),

Gene: Sbash_87 Start: 53343, Stop: 54779, Start Num: 23
Candidate Starts for Sbash_87:
(12, 53277), (Start: 23 @53343 has 188 MA's), (27, 53352), (Start: 48 @53694 has 1 MA's), (51, 53796), (59, 53961), (67, 54036), (71, 54081), (72, 54099), (73, 54102), (74, 54153), (82, 54216), (87, 54264), (90, 54339), (92, 54348), (95, 54378), (97, 54402), (102, 54459), (103, 54480), (108, 54564), (113, 54582), (117, 54645), (119, 54657), (125, 54729),

Gene: ScoobyDoobyDoo_232 Start: 132607, Stop: 134067, Start Num: 29
Candidate Starts for ScoobyDoobyDoo_232:
(Start: 29 @132607 has 1 MA's), (34, 132649), (37, 132730), (39, 132736), (43, 132847), (44, 132853), (Start: 48 @132955 has 1 MA's), (51, 133066), (52, 133069), (53, 133087), (54, 133099), (55, 133108), (56, 133195), (58, 133204), (64, 133282), (67, 133309), (68, 133312), (69, 133360), (74, 133438), (85, 133543), (92, 133654), (95, 133684), (96, 133687), (97, 133708), (99, 133747), (101, 133759), (102, 133765), (105, 133837), (106, 133840), (113, 133882), (116, 133930), (118, 133939), (125, 134017),

Gene: Scottish_101 Start: 53866, Stop: 55302, Start Num: 23
Candidate Starts for Scottish_101:
(Start: 23 @53866 has 188 MA's), (27, 53872), (Start: 28 @53875 has 1 MA's), (Start: 48 @54217 has 1 MA's), (51, 54319), (57, 54454), (59, 54484), (61, 54502), (71, 54604), (72, 54622), (73, 54625), (74, 54676), (76, 54694), (78, 54706), (82, 54739), (92, 54871), (95, 54901), (97, 54925), (100, 54967), (102, 54982), (104, 55048), (108, 55087), (113, 55105), (119, 55180),

Gene: SeaLumen_109 Start: 53837, Stop: 55447, Start Num: 8
Candidate Starts for SeaLumen_109:
(Start: 8 @53837 has 42 MA's), (Start: 23 @54011 has 188 MA's), (Start: 28 @54023 has 1 MA's), (Start: 48 @54362 has 1 MA's), (51, 54464), (57, 54599), (59, 54629), (61, 54647), (67, 54704), (71, 54749), (72, 54767), (73, 54770), (74, 54821), (82, 54884), (92, 55016), (95, 55046), (97, 55070), (100, 55112), (102, 55127), (104, 55193), (106, 55208), (108, 55232), (113, 55250), (119, 55325),

Gene: Seagreen_102 Start: 54945, Stop: 56381, Start Num: 23
Candidate Starts for Seagreen_102:
(6, 54642), (Start: 8 @54771 has 42 MA's), (Start: 23 @54945 has 188 MA's), (Start: 28 @54957 has 1 MA's), (Start: 48 @55296 has 1 MA's), (51, 55398), (59, 55563), (67, 55638), (71, 55683), (73, 55704), (74, 55755), (78, 55785), (82, 55818), (92, 55950), (95, 55980), (97, 56004), (100, 56046), (102, 56061), (106, 56142), (108, 56166), (113, 56184), (119, 56259), (123, 56322), (124, 56325),

Gene: Shauna1_103 Start: 55810, Stop: 57246, Start Num: 23
Candidate Starts for Shauna1_103:
(6, 55507), (Start: 8 @55636 has 42 MA's), (Start: 23 @55810 has 188 MA's), (Start: 28 @55822 has 1 MA's), (Start: 48 @56161 has 1 MA's), (51, 56263), (59, 56428), (73, 56569), (74, 56620), (78, 56650), (82, 56683), (92, 56815), (95, 56845), (97, 56869), (100, 56911), (102, 56926), (106, 57007), (108, 57031), (113, 57049), (119, 57124), (123, 57187), (124, 57190),

Gene: ShiLan_104 Start: 57059, Stop: 58495, Start Num: 23
Candidate Starts for ShiLan_104:
(Start: 23 @57059 has 188 MA's), (27, 57065), (Start: 28 @57068 has 1 MA's), (Start: 48 @57410 has 1 MA's), (51, 57512), (57, 57647), (59, 57677), (61, 57695), (71, 57797), (72, 57815), (73, 57818), (74, 57869), (76, 57887), (78, 57899), (82, 57932), (92, 58064), (95, 58094), (97, 58118), (100, 58160), (102, 58175), (108, 58280), (113, 58298), (119, 58373),

Gene: ShowerHandel_103 Start: 54603, Stop: 56039, Start Num: 23
Candidate Starts for ShowerHandel_103:
(Start: 23 @54603 has 188 MA's), (Start: 28 @54615 has 1 MA's), (Start: 48 @54954 has 1 MA's), (51, 55056), (53, 55077), (57, 55191), (59, 55221), (61, 55239), (71, 55341), (72, 55359), (73, 55362), (74, 55413), (82, 55476), (92, 55608), (95, 55638), (97, 55662), (100, 55704), (102, 55719), (104, 55785), (108, 55824), (113, 55842), (119, 55917),

Gene: ShroomBoi_99 Start: 54651, Stop: 56087, Start Num: 23
Candidate Starts for ShroomBoi_99:

(Start: 23 @54651 has 188 MA's), (Start: 28 @54663 has 1 MA's), (Start: 48 @55002 has 1 MA's), (51, 55104), (57, 55239), (59, 55269), (61, 55287), (67, 55344), (71, 55389), (72, 55407), (73, 55410), (74, 55461), (82, 55524), (92, 55656), (95, 55686), (97, 55710), (100, 55752), (102, 55767), (106, 55848), (108, 55872), (113, 55890), (119, 55965), (123, 56028), (124, 56031),

Gene: SiSi_96 Start: 53372, Stop: 54982, Start Num: 8
Candidate Starts for SiSi_96:
(Start: 8 @53372 has 42 MA's), (Start: 23 @53546 has 188 MA's), (Start: 28 @53558 has 1 MA's), (Start: 48 @53897 has 1 MA's), (51, 53999), (57, 54134), (59, 54164), (61, 54182), (71, 54284), (72, 54302), (73, 54305), (74, 54356), (82, 54419), (92, 54551), (95, 54581), (97, 54605), (100, 54647), (102, 54662), (106, 54743), (108, 54767), (113, 54785), (119, 54860),

Gene: SimranZ1_97 Start: 52735, Stop: 54345, Start Num: 8
Candidate Starts for SimranZ1_97:
(Start: 8 @52735 has 42 MA's), (Start: 23 @52909 has 188 MA's), (Start: 28 @52921 has 1 MA's), (Start: 48 @53260 has 1 MA's), (51, 53362), (57, 53497), (59, 53527), (61, 53545), (73, 53668), (74, 53719), (82, 53782), (92, 53914), (95, 53944), (97, 53968), (100, 54010), (102, 54025), (104, 54091), (108, 54130), (113, 54148), (119, 54223),

Gene: Slim_105 Start: 54885, Stop: 56321, Start Num: 23
Candidate Starts for Slim_105:
(Start: 23 @54885 has 188 MA's), (Start: 28 @54897 has 1 MA's), (Start: 48 @55236 has 1 MA's), (51, 55338), (59, 55503), (67, 55578), (71, 55623), (73, 55644), (74, 55695), (78, 55725), (82, 55758), (92, 55890), (95, 55920), (97, 55944), (100, 55986), (102, 56001), (106, 56082), (108, 56106), (113, 56124), (119, 56199), (123, 56262), (124, 56265),

Gene: Sparkdehlily_108 Start: 53537, Stop: 54976, Start Num: 23
Candidate Starts for Sparkdehlily_108:
(Start: 23 @53537 has 188 MA's), (27, 53546), (Start: 28 @53549 has 1 MA's), (Start: 48 @53891 has 1 MA's), (51, 53993), (57, 54128), (59, 54158), (61, 54176), (71, 54278), (72, 54296), (73, 54299), (74, 54350), (78, 54380), (82, 54413), (92, 54545), (95, 54575), (97, 54599), (100, 54641), (102, 54656), (108, 54761), (113, 54779), (119, 54854),

Gene: Sparky_88 Start: 59585, Stop: 61039, Start Num: 23
Candidate Starts for Sparky_88:
(15, 59552), (21, 59576), (Start: 23 @59585 has 188 MA's), (40, 59774), (44, 59849), (45, 59861), (49, 60002), (65, 60272), (74, 60407), (82, 60470), (92, 60605), (93, 60611), (98, 60680), (102, 60719), (104, 60788), (107, 60824), (108, 60827), (115, 60872), (119, 60917), (120, 60923), (125, 60989),

Gene: Spartacus_108 Start: 57651, Stop: 59090, Start Num: 23
Candidate Starts for Spartacus_108:
(Start: 23 @57651 has 188 MA's), (27, 57660), (Start: 28 @57663 has 1 MA's), (Start: 48 @58005 has 1 MA's), (51, 58107), (57, 58242), (59, 58272), (61, 58290), (71, 58392), (72, 58410), (73, 58413), (74, 58464), (78, 58494), (82, 58527), (92, 58659), (95, 58689), (97, 58713), (100, 58755), (102, 58770), (104, 58836), (108, 58875), (113, 58893), (119, 58968),

Gene: Spikelee_101 Start: 56031, Stop: 57470, Start Num: 23
Candidate Starts for Spikelee_101:
(Start: 23 @56031 has 188 MA's), (27, 56040), (Start: 28 @56043 has 1 MA's), (Start: 48 @56385 has 1 MA's), (51, 56487), (59, 56652), (67, 56727), (71, 56772), (72, 56790), (73, 56793), (74, 56844), (78, 56874), (82, 56907), (95, 57069), (97, 57093), (100, 57135), (102, 57150), (104, 57216), (108, 57255), (113, 57273), (119, 57348),

Gene: Spoonbill_101 Start: 52972, Stop: 54408, Start Num: 23
Candidate Starts for Spoonbill_101:
(Start: 23 @52972 has 188 MA's), (27, 52981), (Start: 28 @52984 has 1 MA's), (Start: 48 @53323 has 1 MA's), (51, 53425), (57, 53560), (59, 53590), (61, 53608), (71, 53710), (72, 53728), (73, 53731), (74, 53782), (76, 53800), (78, 53812), (82, 53845), (92, 53977), (95, 54007), (97, 54031), (100, 54073), (102, 54088), (104, 54154), (108, 54193), (113, 54211), (119, 54286),

Gene: Squirty_100 Start: 57940, Stop: 59376, Start Num: 23
Candidate Starts for Squirty_100:
(Start: 23 @57940 has 188 MA's), (27, 57949), (Start: 28 @57952 has 1 MA's), (Start: 48 @58291 has 1 MA's), (51, 58393), (57, 58528), (59, 58558), (61, 58576), (67, 58633), (71, 58678), (72, 58696), (73, 58699), (74, 58750), (82, 58813), (92, 58945), (95, 58975), (97, 58999), (100, 59041), (102, 59056), (106, 59137), (108, 59161), (113, 59179), (119, 59254), (123, 59317), (124, 59320),

Gene: StAnnes_106 Start: 56148, Stop: 57584, Start Num: 23
Candidate Starts for StAnnes_106:
(Start: 23 @56148 has 188 MA's), (Start: 28 @56160 has 1 MA's), (Start: 48 @56499 has 1 MA's), (50, 56580), (51, 56601), (53, 56622), (59, 56766), (67, 56841), (71, 56886), (73, 56907), (74, 56958), (78, 56988), (82, 57021), (92, 57153), (95, 57183), (97, 57207), (100, 57249), (102, 57264), (106, 57345), (108, 57369), (113, 57387), (119, 57462), (123, 57525), (124, 57528),

Gene: Stap_96 Start: 51574, Stop: 53010, Start Num: 23
Candidate Starts for Stap_96:
(6, 51271), (Start: 8 @51400 has 42 MA's), (Start: 23 @51574 has 188 MA's), (Start: 28 @51586 has 1 MA's), (Start: 48 @51925 has 1 MA's), (51, 52027), (59, 52192), (67, 52267), (71, 52312), (72, 52330), (73, 52333), (74, 52384), (82, 52447), (95, 52609), (97, 52633), (100, 52675), (102, 52690), (106, 52771), (108, 52795), (113, 52813), (119, 52888), (123, 52951), (124, 52954),

Gene: Starcevich_103 Start: 55701, Stop: 57140, Start Num: 23
Candidate Starts for Starcevich_103:
(Start: 23 @55701 has 188 MA's), (27, 55710), (Start: 28 @55713 has 1 MA's), (Start: 48 @56055 has 1 MA's), (51, 56157), (59, 56322), (71, 56442), (72, 56460), (73, 56463), (74, 56514), (78, 56544), (82, 56577), (92, 56709), (94, 56718), (95, 56739), (97, 56763), (100, 56805), (102, 56820), (104, 56886), (108, 56925), (113, 56943), (119, 57018),

Gene: Strokeseat_99 Start: 52733, Stop: 54172, Start Num: 23
Candidate Starts for Strokeseat_99:
(6, 52421), (Start: 8 @52550 has 42 MA's), (Start: 23 @52733 has 188 MA's), (27, 52742), (Start: 28 @52745 has 1 MA's), (Start: 48 @53087 has 1 MA's), (51, 53189), (57, 53324), (59, 53354), (61, 53372), (71, 53474), (72, 53492), (73, 53495), (74, 53546), (82, 53609), (92, 53741), (95, 53771), (97, 53795), (100, 53837), (102, 53852), (104, 53918), (106, 53933), (108, 53957), (113, 53975), (119, 54050), (123, 54113),

Gene: Stuck_83 Start: 52653, Stop: 54089, Start Num: 23
Candidate Starts for Stuck_83:
(12, 52587), (Start: 23 @52653 has 188 MA's), (27, 52662), (Start: 48 @53004 has 1 MA's), (51, 53106), (59, 53271), (61, 53289), (63, 53301), (67, 53346), (71, 53391), (72, 53409), (73, 53412), (74, 53463), (82, 53526), (87, 53574), (90, 53649), (95, 53688), (97, 53712), (102, 53769), (106, 53850), (108, 53874), (113, 53892), (117, 53955), (119, 53967), (125, 54039),

Gene: SuperGrey_100 Start: 56436, Stop: 58046, Start Num: 8
Candidate Starts for SuperGrey_100:

(6, 56307), (Start: 8 @56436 has 42 MA's), (Start: 23 @56610 has 188 MA's), (Start: 28 @56622 has 1 MA's), (Start: 48 @56961 has 1 MA's), (51, 57063), (59, 57228), (73, 57369), (74, 57420), (78, 57450), (82, 57483), (92, 57615), (95, 57645), (97, 57669), (100, 57711), (102, 57726), (106, 57807), (108, 57831), (113, 57849), (119, 57924), (123, 57987), (124, 57990),

Gene: SwagPigglett_103 Start: 56168, Stop: 57604, Start Num: 23
Candidate Starts for SwagPigglett_103:
(6, 55865), (Start: 8 @55994 has 42 MA's), (Start: 23 @56168 has 188 MA's), (Start: 28 @56180 has 1 MA's), (Start: 48 @56519 has 1 MA's), (51, 56621), (59, 56786), (61, 56804), (73, 56927), (74, 56978), (78, 57008), (82, 57041), (92, 57173), (95, 57203), (97, 57227), (100, 57269), (102, 57284), (104, 57350), (108, 57389), (113, 57407), (119, 57482),

Gene: TChen_98 Start: 54706, Stop: 56139, Start Num: 23
Candidate Starts for TChen_98:
(Start: 23 @54706 has 188 MA's), (27, 54715), (32, 54739), (42, 54943), (Start: 48 @55051 has 1 MA's), (50, 55135), (51, 55156), (57, 55291), (59, 55321), (61, 55339), (74, 55513), (75, 55525), (82, 55576), (88, 55636), (90, 55699), (92, 55708), (95, 55738), (97, 55762), (102, 55819), (108, 55924), (113, 55942), (119, 56017), (122, 56062),

Gene: TDanisky_109 Start: 53537, Stop: 54976, Start Num: 23
Candidate Starts for TDanisky_109:
(Start: 23 @53537 has 188 MA's), (27, 53546), (Start: 28 @53549 has 1 MA's), (Start: 48 @53891 has 1 MA's), (51, 53993), (57, 54128), (59, 54158), (61, 54176), (71, 54278), (72, 54296), (73, 54299), (74, 54350), (78, 54380), (82, 54413), (92, 54545), (95, 54575), (97, 54599), (100, 54641), (102, 54656), (108, 54761), (113, 54779), (119, 54854),

Gene: Taj_107 Start: 55815, Stop: 57251, Start Num: 23
Candidate Starts for Taj_107:
(Start: 23 @55815 has 188 MA's), (Start: 28 @55827 has 1 MA's), (Start: 48 @56166 has 1 MA's), (51, 56268), (59, 56433), (67, 56508), (71, 56553), (73, 56574), (74, 56625), (84, 56706), (90, 56811), (92, 56820), (95, 56850), (97, 56874), (102, 56931), (108, 57036), (113, 57054), (119, 57129),

Gene: Tchotchke_96 Start: 52916, Stop: 54538, Start Num: 8
Candidate Starts for Tchotchke_96:
(Start: 8 @52916 has 42 MA's), (Start: 23 @53099 has 188 MA's), (27, 53108), (Start: 28 @53111 has 1 MA's), (Start: 48 @53453 has 1 MA's), (51, 53555), (57, 53690), (59, 53720), (61, 53738), (71, 53840), (72, 53858), (73, 53861), (74, 53912), (76, 53930), (95, 54137), (97, 54161), (100, 54203), (102, 54218), (104, 54284), (108, 54323), (113, 54341), (119, 54416),

Gene: TootsiePop_91 Start: 55106, Stop: 56542, Start Num: 23
Candidate Starts for TootsiePop_91:
(Start: 23 @55106 has 188 MA's), (Start: 48 @55457 has 1 MA's), (50, 55538), (51, 55559), (59, 55724), (70, 55841), (73, 55865), (74, 55916), (87, 56027), (92, 56111), (95, 56141), (97, 56165), (100, 56207), (102, 56222), (104, 56288), (106, 56303), (108, 56327), (113, 56345), (119, 56420), (123, 56483),

Gene: Tootsieroll_95 Start: 55249, Stop: 56685, Start Num: 23
Candidate Starts for Tootsieroll_95:
(Start: 23 @55249 has 188 MA's), (Start: 28 @55261 has 1 MA's), (Start: 48 @55600 has 1 MA's), (51, 55702), (59, 55867), (67, 55942), (71, 55987), (72, 56005), (73, 56008), (74, 56059), (78, 56089), (82, 56122), (92, 56254), (95, 56284), (97, 56308), (100, 56350), (102, 56365), (104, 56431), (106, 56446), (108, 56470), (113, 56488), (119, 56563), (123, 56626),

Gene: Topiatin_102 Start: 55567, Stop: 57006, Start Num: 23
Candidate Starts for Topiatin_102:
(Start: 23 @55567 has 188 MA's), (27, 55576), (Start: 28 @55579 has 1 MA's), (Start: 48 @55921 has 1 MA's), (51, 56023), (57, 56158), (59, 56188), (61, 56206), (74, 56380), (75, 56392), (82, 56443), (87, 56491), (90, 56566), (92, 56575), (94, 56584), (95, 56605), (97, 56629), (100, 56671), (102, 56686), (106, 56767), (108, 56791), (113, 56809), (119, 56884), (123, 56947), (124, 56950),

Gene: Totinger_104 Start: 55101, Stop: 56540, Start Num: 23
Candidate Starts for Totinger_104:
(Start: 23 @55101 has 188 MA's), (27, 55110), (Start: 28 @55113 has 1 MA's), (Start: 48 @55455 has 1 MA's), (51, 55557), (59, 55722), (71, 55842), (72, 55860), (73, 55863), (74, 55914), (78, 55944), (82, 55977), (92, 56109), (95, 56139), (97, 56163), (100, 56205), (102, 56220), (108, 56325), (113, 56343), (119, 56418),

Gene: UncleRicky_100 Start: 53142, Stop: 54764, Start Num: 8
Candidate Starts for UncleRicky_100:
(Start: 8 @53142 has 42 MA's), (Start: 23 @53325 has 188 MA's), (27, 53334), (Start: 28 @53337 has 1 MA's), (Start: 48 @53679 has 1 MA's), (51, 53781), (57, 53916), (59, 53946), (61, 53964), (71, 54066), (72, 54084), (73, 54087), (74, 54138), (76, 54156), (82, 54201), (95, 54363), (97, 54387), (100, 54429), (102, 54444), (104, 54510), (108, 54549), (113, 54567), (119, 54642),

Gene: VRedHorse_102 Start: 52066, Stop: 53502, Start Num: 23
Candidate Starts for VRedHorse_102:
(6, 51763), (Start: 8 @51892 has 42 MA's), (Start: 23 @52066 has 188 MA's), (Start: 28 @52078 has 1 MA's), (Start: 48 @52417 has 1 MA's), (51, 52519), (57, 52654), (59, 52684), (61, 52702), (67, 52759), (71, 52804), (72, 52822), (73, 52825), (74, 52876), (82, 52939), (92, 53071), (95, 53101), (97, 53125), (100, 53167), (102, 53182), (104, 53248), (106, 53263), (108, 53287), (113, 53305), (119, 53380), (123, 53443),

Gene: Velveteen_98 Start: 51967, Stop: 53403, Start Num: 23
Candidate Starts for Velveteen_98:
(6, 51664), (Start: 8 @51793 has 42 MA's), (Start: 23 @51967 has 188 MA's), (Start: 28 @51979 has 1 MA's), (Start: 48 @52318 has 1 MA's), (51, 52420), (59, 52585), (73, 52726), (74, 52777), (78, 52807), (82, 52840), (92, 52972), (95, 53002), (97, 53026), (100, 53068), (102, 53083), (106, 53164), (108, 53188), (113, 53206), (119, 53281), (123, 53344),

Gene: Veteran_91 Start: 53240, Stop: 54850, Start Num: 8
Candidate Starts for Veteran_91:
(Start: 8 @53240 has 42 MA's), (Start: 23 @53414 has 188 MA's), (Start: 28 @53426 has 1 MA's), (Start: 48 @53765 has 1 MA's), (51, 53867), (57, 54002), (59, 54032), (61, 54050), (71, 54152), (72, 54170), (73, 54173), (74, 54224), (82, 54287), (92, 54419), (95, 54449), (97, 54473), (100, 54515), (102, 54530), (106, 54611), (108, 54635), (113, 54653), (119, 54728),

Gene: Violac_102 Start: 55462, Stop: 56898, Start Num: 23
Candidate Starts for Violac_102:
(5, 55102), (6, 55159), (Start: 8 @55288 has 42 MA's), (Start: 23 @55462 has 188 MA's), (Start: 28 @55474 has 1 MA's), (Start: 48 @55813 has 1 MA's), (51, 55915), (57, 56050), (59, 56080), (61, 56098), (71, 56200), (72, 56218), (73, 56221), (74, 56272), (82, 56335), (95, 56497), (97, 56521), (100, 56563), (102, 56578), (104, 56644), (108, 56683), (113, 56701), (119, 56776),

Gene: Vivum_101 Start: 56403, Stop: 57839, Start Num: 23
Candidate Starts for Vivum_101:

(Start: 8 @56229 has 42 MA's), (Start: 23 @56403 has 188 MA's), (Start: 28 @56415 has 1 MA's), (Start: 48 @56754 has 1 MA's), (51, 56856), (57, 56991), (59, 57021), (61, 57039), (71, 57141), (72, 57159), (73, 57162), (74, 57213), (82, 57276), (92, 57408), (95, 57438), (97, 57462), (100, 57504), (102, 57519), (106, 57600), (108, 57624), (113, 57642), (119, 57717),

Gene: Wachhund_97 Start: 51088, Stop: 52698, Start Num: 8
Candidate Starts for Wachhund_97:
(Start: 8 @51088 has 42 MA's), (Start: 23 @51262 has 188 MA's), (Start: 28 @51274 has 1 MA's), (Start: 48 @51613 has 1 MA's), (51, 51715), (57, 51850), (59, 51880), (61, 51898), (67, 51955), (71, 52000), (72, 52018), (73, 52021), (74, 52072), (82, 52135), (92, 52267), (94, 52276), (95, 52297), (97, 52321), (100, 52363), (102, 52378), (104, 52444), (106, 52459), (108, 52483), (113, 52501), (119, 52576),

Gene: Wee_104 Start: 55891, Stop: 57327, Start Num: 23
Candidate Starts for Wee_104:
(Start: 23 @55891 has 188 MA's), (Start: 28 @55903 has 1 MA's), (Start: 48 @56242 has 1 MA's), (51, 56344), (59, 56509), (67, 56584), (71, 56629), (73, 56650), (74, 56701), (84, 56782), (90, 56887), (92, 56896), (95, 56926), (97, 56950), (102, 57007), (108, 57112), (113, 57130), (119, 57205),

Gene: Whatsapiecost_95 Start: 49617, Stop: 51053, Start Num: 23
Candidate Starts for Whatsapiecost_95:
(6, 49314), (Start: 8 @49443 has 42 MA's), (Start: 23 @49617 has 188 MA's), (Start: 28 @49629 has 1 MA's), (Start: 48 @49968 has 1 MA's), (51, 50070), (59, 50235), (67, 50310), (71, 50355), (72, 50373), (73, 50376), (74, 50427), (78, 50457), (82, 50490), (92, 50622), (95, 50652), (97, 50676), (100, 50718), (102, 50733), (106, 50814), (108, 50838), (113, 50856), (119, 50931), (123, 50994), (124, 50997),

Gene: Whouxphf_105 Start: 56186, Stop: 57796, Start Num: 8
Candidate Starts for Whouxphf_105:
(5, 56000), (6, 56057), (Start: 8 @56186 has 42 MA's), (Start: 23 @56360 has 188 MA's), (Start: 28 @56372 has 1 MA's), (Start: 48 @56711 has 1 MA's), (51, 56813), (53, 56834), (59, 56978), (67, 57053), (71, 57098), (72, 57116), (73, 57119), (74, 57170), (78, 57200), (82, 57233), (92, 57365), (95, 57395), (97, 57419), (100, 57461), (102, 57476), (106, 57557), (108, 57581), (113, 57599), (119, 57674),

Gene: XFactor_92 Start: 52408, Stop: 53844, Start Num: 23
Candidate Starts for XFactor_92:
(6, 52105), (Start: 8 @52234 has 42 MA's), (Start: 23 @52408 has 188 MA's), (Start: 28 @52420 has 1 MA's), (Start: 48 @52759 has 1 MA's), (51, 52861), (59, 53026), (67, 53101), (71, 53146), (73, 53167), (74, 53218), (82, 53281), (92, 53413), (95, 53443), (97, 53467), (100, 53509), (102, 53524), (106, 53605), (108, 53629), (113, 53647), (119, 53722), (123, 53785), (124, 53788),

Gene: Xula_71 Start: 45566, Stop: 47002, Start Num: 23
Candidate Starts for Xula_71:
(Start: 23 @45566 has 188 MA's), (27, 45575), (32, 45599), (Start: 48 @45917 has 1 MA's), (51, 46019), (53, 46040), (59, 46184), (63, 46214), (67, 46259), (71, 46304), (73, 46325), (74, 46376), (84, 46457), (90, 46562), (92, 46571), (95, 46601), (97, 46625), (102, 46682), (108, 46787), (113, 46805), (119, 46880),

Gene: Yorick_97 Start: 55719, Stop: 57158, Start Num: 23
Candidate Starts for Yorick_97:
(Start: 23 @55719 has 188 MA's), (27, 55728), (Start: 28 @55731 has 1 MA's), (Start: 48 @56073 has 1 MA's), (51, 56175), (59, 56340), (61, 56358), (71, 56460), (72, 56478), (73, 56481), (74, 56532), (76, 56550), (78, 56562), (82, 56595), (92, 56727), (95, 56757), (97, 56781), (100, 56823), (102, 56838),

(108, 56943), (113, 56961), (119, 57036),

Gene: Zerg_100 Start: 54572, Stop: 56008, Start Num: 23
Candidate Starts for Zerg_100:
(Start: 23 @54572 has 188 MA's), (Start: 28 @54584 has 1 MA's), (Start: 48 @54923 has 1 MA's), (51, 55025), (57, 55160), (59, 55190), (61, 55208), (71, 55310), (72, 55328), (73, 55331), (74, 55382), (82, 55445), (92, 55577), (95, 55607), (97, 55631), (100, 55673), (102, 55688), (104, 55754), (108, 55793), (113, 55811), (119, 55886),

Gene: Zizzle_105 Start: 56648, Stop: 58084, Start Num: 23
Candidate Starts for Zizzle_105:
(Start: 23 @56648 has 188 MA's), (Start: 28 @56660 has 1 MA's), (Start: 48 @56999 has 1 MA's), (51, 57101), (53, 57122), (57, 57236), (59, 57266), (67, 57341), (71, 57386), (72, 57404), (73, 57407), (74, 57458), (78, 57488), (82, 57521), (92, 57653), (95, 57683), (97, 57707), (100, 57749), (102, 57764), (104, 57830), (108, 57869), (113, 57887), (119, 57962),