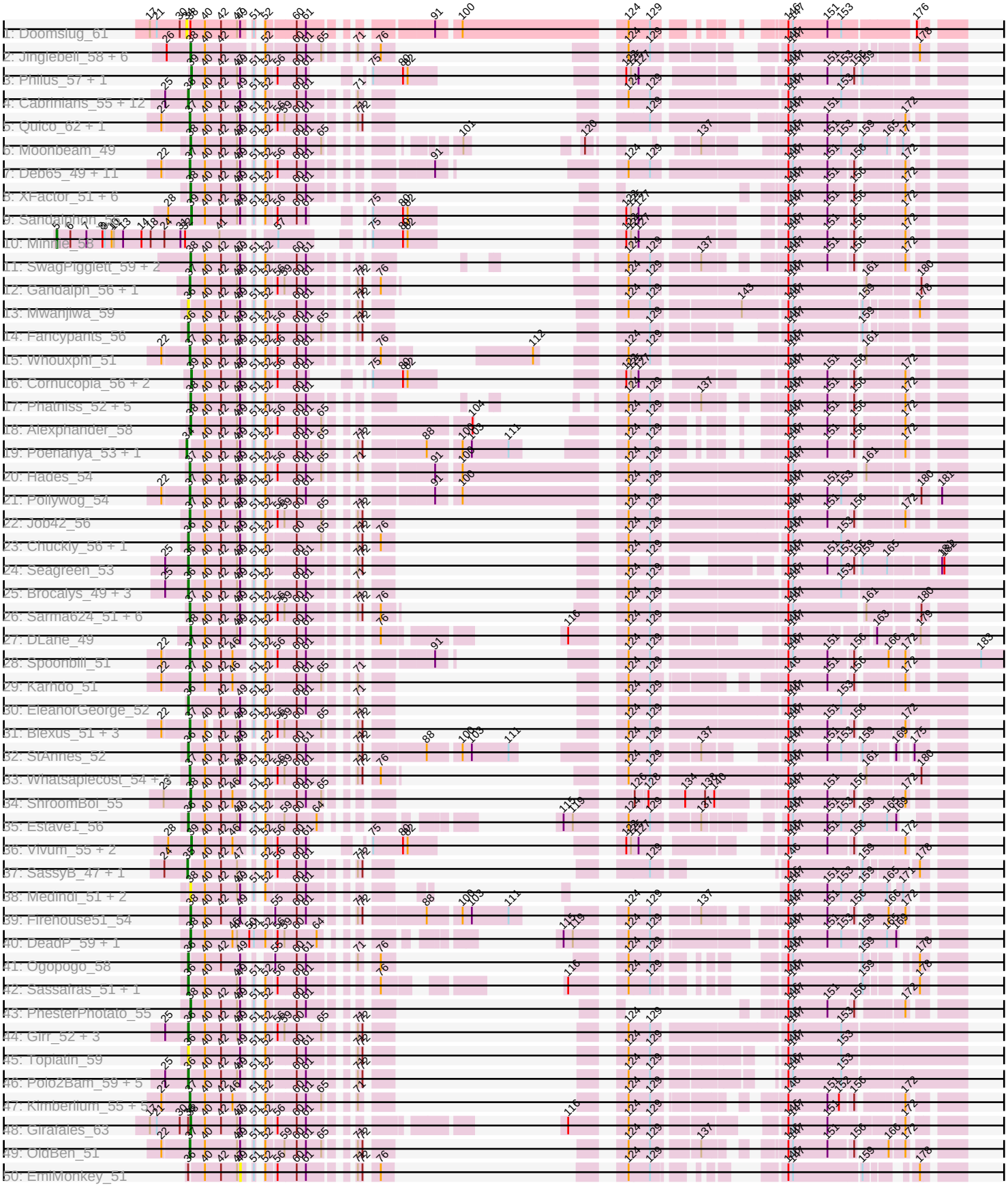
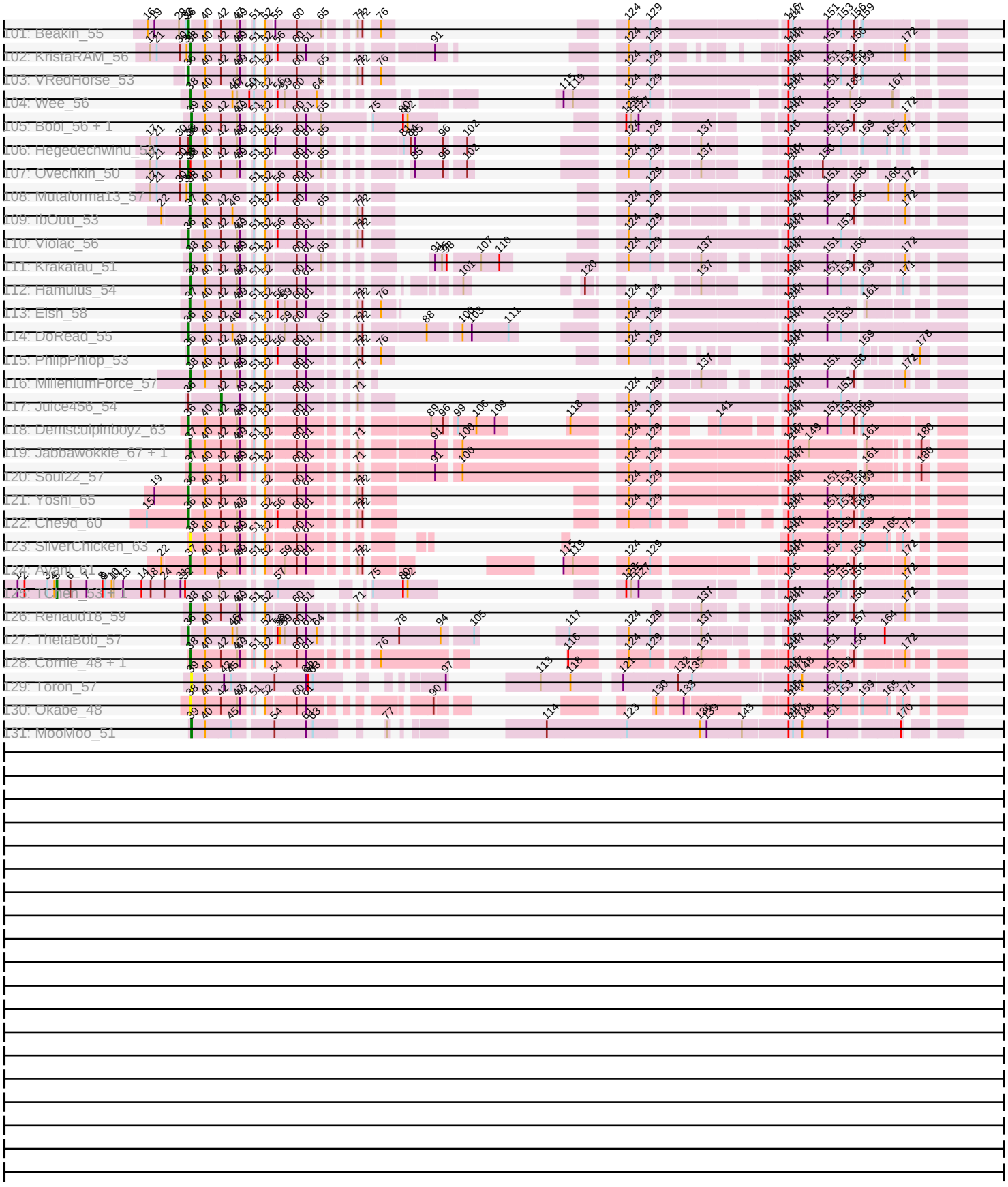
Pham 347233


1: Doomslug_61
2: Jinglebell_58 + 6
3: Philus_57 + 1
4: Cabrinians_55 + 12
5: Quico_62 + 1
6: Moonbeam_49
7: Deb65_49 + 11
8: XFactor_51 + 6
9: Sandalphwn_55
10: Minnie_58
11: SwagPiggiett_59 + 2
12: Gandalph_56 + 1
13: Mwanjiwa_59
14: Fancypants_56
15: Whouxphi_51
16: Cornucopia_56 + 2
17: Phathiss_52 + 5
18: Alexphander_58
19: Poehanya_53 + 1
20: Hades_54
21: Pollywog_54
22: Job42_56
23: Chuckly_56 + 1
24: Seagreen_53
25: Brocalys_49 + 3
26: Sarma624_51 + 6
27: DLane_49
28: Spoonbill_51
29: Kamdo_51
30: EleanorGeorge_52
31: Blexus_51 + 3
32: StAnnes_52
33: Whatsaplecost_54 + 2
34: ShroomBoi_55
35: Estave1_56
36: Vivum_55 + 2
37: SassyB_47 + 1
38: Medindi_51 + 2
39: Firehouse51_54
40: DeadP_59 + 1
41: Ogopogo_58
42: Sassafras_51 + 1
43: PhesterPhotato_55
44: Girr_52 + 3
45: Toplatin_59
46: Polo2Bam_59 + 5
47: Kimberlium_55 + 5
48: Girafales_63
49: OldBen_51
50: EmiMonkey_51

Pham 347233


51: Dante_54
52: Akhila_45 + 1
53: Che8_56
54: Mahavrat_51
55: Starcevich_53
56: Simran21_53
57: Zizzle_58
58: Ibnubesi_53
59: Gorge_58 + 1
60: Melissauren88_51
61: MadMen_51
62: Juniper1_51
63: PatoPoderoso_50
64: Maravista_55
65: Bipolar_53
66: JalFarm20_65 + 1
67: Byougenkin_51
68: Fruitloop_51
69: DaddyRickover_53
70: Mozy_63
71: Nitzel_50
72: Enby_54 + 1
73: Bubbles123_51
74: Chevrolet_60 + 2
75: Royals2015_56
76: Emma_53
77: Stap_52
78: Beanstalk_52
79: DosHalletts_56
80: Wachhund_55
81: KingJulian_53 + 1
82: CaptainTrips_50 + 1
83: Tchotchke_55 + 1
84: Sabbo_58
85: Kenjin45_51
86: Auos_64
87: Peridot_52
88: Brushbloom_56
89: DilTech15_50 + 1
90: Oksu_59 + 1
91: BobaPhett_57 + 1
92: Phalconet_52
93: Tweety_53
94: Polka14_52
95: MS6_48
96: DotProduct_49 + 1
97: Guppsters_54
98: Madiba_51
99: Phasin_52
100: Marker_54

Pham 347233


101: Beakin_55
102: KristaRAM_56
103: VRedHorse_53
104: Wee_56
105: Bobi_56 + 1
106: Hegedechwinu_53
107: Ovechkin_50
108: Mutaforma13_57
109: IbOuu_53
110: Violac_56
111: Krakatau_51
112: Ramulus_54
113: Elsh_58
114: DoRead_55
115: PhilpPhlop_53
116: MilleniumForce_57
117: Juice456_54
118: Demsculpinboyz_63
119: Jabbawokkie_67 + 1
120: Soul22_57
121: Yoshi_65
122: Che9d_60
123: SilverChicken_63
124: Aryan_61
125: TCren_53 + 1
126: Renaud18_59
127: ThetaBob_57
128: Corrie_48 + 1
129: Toron_57
130: Okabe_48
131: MooMoo_51

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 347233 Report

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

Pham number 347233 has 232 members, 18 are drafts.

Phages represented in each track:
• Track 1 : Doomslug_61
• Track 2 : Jinglebell_58, OfUltron_58, Ochi17_56, Llama_58, Modragons_57, Seabastian_58, AlpineSix_58
• Track 3 : Philus_57, DRBy19_57
• Track 4 : Cabrinians_55, Burwell21_52, Jarcob_54, Martik_54, Lizziana_60, Koella_48, ShowerHandel_57, NormanBulbieJr_54, ShiLan_53, Crumble_49, Priscilla_54, FreddyB_55, Yorick_53
• Track 5 : Quico_62, Florinda_65
• Track 6 : Moonbeam_49
• Track 7 : Deb65_49, Nimbo_48, Leperchaun_46, JoeyJr_49, Daenerys_48, PHappiness_49, RitaG_49, Scottish_52, Geralt_49, Pacc40_48, Empress_52, KingMidas_53
• Track 8 : XFactor_51, RockyHorror_54, DaWorst_55, Sparkdehlily_61, TDanisky_61, Zerg_53, Doug_56
• Track 9 : Sandalphon_55
• Track 10 : Minnie_58
• Track 11 : SwagPigglett_59, LilMoolah_52, Nivrat_50
• Track 12 : Gandalph_56, Mova_54
• Track 13 : Mwanjiwa_59
• Track 14 : Fancypants_56
• Track 15 : Whouxphf_51
• Track 16 : Cornucopia_56, Ardmore_45, OwlsT2W_54
• Track 17 : Phatniss_52, Llij_50, Drago_52, DirtMcgirt_53, UncleRicky_53, Lucia_53
• Track 18 : Alexphander_58
• Track 19 : Poenanya_53, Doomphist_53
• Track 20 : Hades_54
• Track 21 : Pollywog_54
• Track 22 : Job42_56
• Track 23 : Chuckly_56, Clank_58
• Track 24 : Seagreen_53
• Track 25 : Brocalys_49, Clifton_49, LastJedi_48, Pippy_52
• Track 26 : Sarma624_51, Velveteen_48, Kingsley_50, BigPhil_49, Brookers_50, Coco12_52, Cerasum_49
• Track 27 : DLane_49
• Track 28 : Spoonbill_51
• Track 29 : Karhdo_51
• Track 30 : EleanorGeorge_52

• Track 31 : Blexus_51, Kersh_55, Ramsey_54, Tootsieroll_55
• Track 32 : StAnnes_52
• Track 33 : Whatsapiecost_54, PMC_50, Boomer_58, Rockne_54
• Track 34 : ShroomBoi_55
• Track 35 : Estave1_56
• Track 36 : Vivum_55, Radiance_53, BodEinwohner17_54
• Track 37 : SassyB_47, PopTart_47
• Track 38 : Medindi_51, IMpilo_50, Jant_57
• Track 39 : Firehouse51_54
• Track 40 : DeadP_59, Taj_57
• Track 41 : Ogopogo_58
• Track 42 : Sassafras_51, Inventum_48
• Track 43 : PhesterPhotato_55
• Track 44 : Girr_52, Leozinho_53, Ruby_50, MisterCuddles_52
• Track 45 : Topiatin_59
• Track 46 : Polo2Bam_59, SeaLumen_58, LunaBlu_56, NewHope4_55, Galactic_53, Enzomatic_60
• Track 47 : Kimberlium_55, QuickMath_54, SiSi_51, Mantra_49, MulchExplorer_55, Plumbus_55
• Track 48 : Girafales_63
• Track 49 : OldBen_51
• Track 50 : EmiMonkey_51
• Track 51 : Dante_54
• Track 52 : Akhila_45, MilanaBonita_44
• Track 53 : Che8_56
• Track 54 : Mahavrat_51
• Track 55 : Starcevich_53
• Track 56 : SimranZ1_53
• Track 57 : Zizzle_58
• Track 58 : Ibhubesi_53
• Track 59 : Gorge_58, Saal_56
• Track 60 : Melissauren88_51
• Track 61 : MadMen_51
• Track 62 : Juniper1_51
• Track 63 : PatoPoderoso_50
• Track 64 : Maravista_55
• Track 65 : Bipolar_53
• Track 66 : JalFarm20_65, Flathead_53
• Track 67 : Byougenkin_51
• Track 68 : Fruitloop_51
• Track 69 : DaddyRickover_53
• Track 70 : Mozy_63
• Track 71 : Nitzel_50
• Track 72 : Enby_54, SG4_50
• Track 73 : Bubbles123_51
• Track 74 : Chevrolet_60, ArcusAngelus_57, Lorde_54
• Track 75 : Royals2015_56
• Track 76 : Emma_53
• Track 77 : Stap_52
• Track 78 : Beanstalk_52
• Track 79 : DosHalletts_56
• Track 80 : Wachhund_55
• Track 81 : KingJulian_53, Corium_50

• Track 82 : CaptainTrips_50, MinionDave_52
• Track 83 : Tchotchke_55, Spikelee_60
• Track 84 : Sabbb_58
• Track 85 : Kenuha5_51
• Track 86 : Aubs_54
• Track 87 : Peridot_52
• Track 88 : Brushbloom_56
• Track 89 : DillTech15_50, Fastidio_53
• Track 90 : Oksu_59, Nichirin_57
• Track 91 : BobaPhett_57, Jennelsea_52
• Track 92 : Phalconet_52
• Track 93 : Tweety_53
• Track 94 : Polka14_52
• Track 95 : Ms6_48
• Track 96 : DotProduct_49, GigiOuiOui_50
• Track 97 : Guppsters_54
• Track 98 : Madiba_51
• Track 99 : Phasih_52
• Track 100 : Marker_54
• Track 101 : Beakin_55
• Track 102 : KristaRAM_56
• Track 103 : VRedHorse_53
• Track 104 : Wee_56
• Track 105 : Bobi_56, Harley_55
• Track 106 : Hegedechwinu_53
• Track 107 : Ovechkin_50
• Track 108 : Mutaforma13_57
• Track 109 : IbOuu_53
• Track 110 : Violac_56
• Track 111 : Krakatau_51
• Track 112 : Hamulus_54
• Track 113 : Eish_58
• Track 114 : DoRead_55
• Track 115 : PhlipPhlop_53
• Track 116 : MilleniumForce_57
• Track 117 : Juice456_54
• Track 118 : Demsculpinboyz_63
• Track 119 : Jabbawokkie_67, Zapner_66
• Track 120 : Soul22_57
• Track 121 : Yoshi_65
• Track 122 : Che9d_60
• Track 123 : SilverChicken_63
• Track 124 : Avani_61
• Track 125 : TChen_53, LunaStella_51
• Track 126 : Renaud18_59
• Track 127 : ThetaBob_57
• Track 128 : Cornie_48, Cheesepuff_59
• Track 129 : Toron_57
• Track 130 : Okabe_48
• Track 131 : MooMoo_51

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

The start number called the most often in the published annotations is 36, it was called in 62 of the 214 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beakin_55, BobaPhett_57, Brocalys_49, Burwell21_52, Byougenkin_51, Cabrinians_55, Che8_56, Che9d_60, Chuckly_56, Clank_58, Clifton_49, Crumble_49, Demsculpinboyz_63, DoRead_55, EleanorGeorge_52, Enzomatic_60, Estave1_56, Fancypants_56, FreddyB_55, Galactic_53, Girr_52, Gorge_58, Inventum_48, Jarcob_54, Jennelsea_52, Juniper1_51, Kenuha5_51, Koella_48, LastJedi_48, Leozinho_53, Lizziana_60, LunaBlu_56, MadMen_51, Madiba_51, Mahavrat_51, Marker_54, Martik_54, MisterCuddles_52, Mozy_63, Mwanjiwa_59, NewHope4_55, Nichirin_57, NormanBulbieJr_54, Ogopogo_58, Oksu_59, Ovechkin_50, Phasih_52, PhlipPhlop_53, Pippy_52, Polo2Bam_59, Priscilla_54, Royals2015_56, Ruby_50, Saal_56, Sassafras_51, SeaLumen_58, Seagreen_53, ShiLan_53, ShowerHandel_57, SimranZ1_53, StAnnes_52, Starcevich_53, ThetaBob_57, Topiatin_59, VRedHorse_53, Violac_56, Yorick_53, Yoshi_65,

Genes that have the "Most Annotated" start but do not call it:
• EmiMonkey_51, Girafales_63, Hegedechwinu_53, Juice456_54,

Genes that do not have the "Most Annotated" start:
• Akhila_45, Alexphander_58, AlpineSix_58, ArcusAngelus_57, Ardmore_45, Aubs_54, Avani_61, Beanstalk_52, BigPhil_49, Bipolar_53, Blexus_51, Bobi_56, BodEinwohner17_54, Boomer_58, Brookers_50, Brushbloom_56, Bubbles123_51, CaptainTrips_50, Cerasum_49, Cheesepuff_59, Chevrolet_60, Coco12_52, Corium_50, Cornie_48, Cornucopia_56, DLane_49, DRBy19_57, DaWorst_55, DaddyRickover_53, Daenerys_48, Dante_54, DeadP_59, Deb65_49, DillTech15_50, DirtMcgirt_53, Doomphist_53, Doomslug_61, DosHalletts_56, DotProduct_49, Doug_56, Drago_52, Eish_58, Emma_53, Empress_52, Enby_54, Fastidio_53, Firehouse51_54, Flathead_53, Florinda_65, Fruitloop_51, Gandalph_56, Geralt_49, GigiOuiOui_50, Guppsters_54, Hades_54, Hamulus_54, Harley_55, IMpilo_50, IbOuu_53, Ibhubesi_53, Jabbawokkie_67, JalFarm20_65, Jant_57, Jinglebell_58, Job42_56, JoeyJr_49, Karhdo_51, Kersh_55, Kimberlium_55, KingJulian_53, KingMidas_53, Kingsley_50, Krakatau_51, KristaRAM_56, Leperchaun_46, LilMoolah_52, Llama_58, Llij_50, Lorde_54, Lucia_53, LunaStella_51, Mantra_49, Maravista_55, Medindi_51, Melissauren88_51, MilanaBonita_44, MilleniumForce_57, MinionDave_52, Minnie_58, Modragons_57, MooMoo_51, Moonbeam_49, Mova_54, Ms6_48, MulchExplorer_55, Mutaforma13_57, Nimbo_48, Nitzel_50, Nivrat_50, Ochi17_56, OfUltron_58, Okabe_48, OldBen_51, OwlsT2W_54, PHappiness_49, PMC_50, Pacc40_48, PatoPoderoso_50, Peridot_52, Phalconet_52, Phatniss_52, PhesterPhotato_55, Philus_57, Plumbus_55, Poenanya_53, Polka14_52, Pollywog_54, PopTart_47, QuickMath_54, Quico_62, Radiance_53, Ramsey_54, Renaud18_59, RitaG_49, Rockne_54, RockyHorror_54, SG4_50, Sabbb_58, Sandalphon_55, Sarma624_51, SassyB_47, Scottish_52, Seabastian_58, ShroomBoi_55, SiSi_51, SilverChicken_63, Soul22_57, Sparkdehlily_61, Spikelee_60, Spoonbill_51, Stap_52, SwagPigglett_59, TChen_53, TDanisky_61, Taj_57, Tchotchke_55, Tootsieroll_55, Toron_57, Tweety_53, UncleRicky_53, Velveteen_48, Vivum_55, Wachhund_55, Wee_56, Whatsapiecost_54, Whouxphf_51, XFactor_51, Zapner_66, Zerg_53, Zizzle_58,

Summary by start number:

Start 5:
• Found in 4 of 232 (1.7%) of genes in pham
• Manual Annotations of this start: 3 of 214
• Called 75.0% of time when present
• Phage (with cluster) where this start called: LunaStella_51 (F4), Minnie_58 (F1), TChen_53 (F4),

Start 7:
• Found in 4 of 232 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 214
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Aubs_54 (F1),

Start 17:
• Found in 10 of 232 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 214
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Bipolar_53 (F1),

Start 21:
• Found in 10 of 232 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: PatoPoderoso_50 (F1),

Start 34:
• Found in 9 of 232 (3.9%) of genes in pham
• Manual Annotations of this start: 2 of 214
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Doomphist_53 (F1), Doomslug_61 (F), Poenanya_53 (F1),

Start 35:
• Found in 2 of 232 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 214
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PopTart_47 (F1), SassyB_47 (F1),

Start 36:
• Found in 72 of 232 (31.0%) of genes in pham
• Manual Annotations of this start: 62 of 214
• Called 94.4% of time when present
• Phage (with cluster) where this start called: Beakin_55 (F1), BobaPhett_57 (F1), Brocalys_49 (F1), Burwell21_52 (F1), Byougenkin_51 (F1), Cabrinians_55 (F1), Che8_56 (F1), Che9d_60 (F2), Chuckly_56 (F1), Clank_58 (F), Clifton_49 (F1), Crumble_49 (F1), Demsculpinboyz_63 (F2), DoRead_55 (F1), EleanorGeorge_52 (F1), Enzomatic_60 (F1), Estave1_56 (F1), Fancypants_56 (F1), FreddyB_55 (F1), Galactic_53 (F1), Girr_52 (F1), Gorge_58 (F1), Inventum_48 (F1), Jarcob_54 (F1), Jennelsea_52 (F1), Juniper1_51 (F1), Kenuha5_51 (F1), Koella_48 (F1), LastJedi_48 (F1), Leozinho_53 (F1), Lizziana_60 (F1), LunaBlu_56 (F1), MadMen_51 (F1), Madiba_51 (F1), Mahavrat_51 (F1), Marker_54 (F1), Martik_54 (F1),

MisterCuddles_52 (F1), Mozy_63 (F1), Mwanjiwa_59 (F1), NewHope4_55 (F1), Nichirin_57 (F1), NormanBulbieJr_54 (F1), Ogopogo_58 (F1), Oksu_59 (F1), Ovechkin_50 (F1), Phasih_52 (F1), PhlipPhlop_53 (F1), Pippy_52 (F1), Polo2Bam_59 (F1), Priscilla_54 (F1), Royals2015_56 (F1), Ruby_50 (F1), Saal_56 (F1), Sassafras_51 (F1), SeaLumen_58 (F1), Seagreen_53 (F1), ShiLan_53 (F1), ShowerHandel_57 (F1), SimranZ1_53 (F1), StAnnes_52 (F1), Starcevich_53 (F1), ThetaBob_57 (F4), Topiatin_59 (F1), VRedHorse_53 (F1), Violac_56 (F1), Yorick_53 (F1), Yoshi_65 (F2),

Start 37:
• Found in 60 of 232 (25.9%) of genes in pham
• Manual Annotations of this start: 60 of 214
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Avani_61 (F2), Beanstalk_52 (F1), BigPhil_49 (F1), Blexus_51 (F1), Boomer_58 (F1), Brookers_50 (F1), CaptainTrips_50 (F1), Cerasum_49 (F1), Coco12_52 (F1), DaddyRickover_53 (F1), Daenerys_48 (F1), Dante_54 (F1), Deb65_49 (F1), DillTech15_50 (F1), Eish_58 (F1), Empress_52 (F1), Fastidio_53 (F1), Florinda_65 (F1), Gandalph_56 (F1), Geralt_49 (F1), Hades_54 (F1), IbOuu_53 (F1), Jabbawokkie_67 (F2), Job42_56 (F1), JoeyJr_49 (F1), Karhdo_51 (F1), Kersh_55 (F1), Kimberlium_55 (F1), KingMidas_53 (F1), Kingsley_50 (F1), Leperchaun_46 (F1), Mantra_49 (F1), Maravista_55 (F1), MinionDave_52 (F1), Mova_54 (F1), MulchExplorer_55 (F1), Nimbo_48 (F1), OldBen_51 (F1), PHappiness_49 (F1), PMC_50 (F1), Pacc40_48 (F1), Plumbus_55 (F1), Pollywog_54 (F1), QuickMath_54 (F1), Quico_62 (F1), Ramsey_54 (F1), RitaG_49 (F1), Rockne_54 (F1), Sabbb_58 (F1), Sarma624_51 (F1), Scottish_52 (F1), SiSi_51 (F1), Soul22_57 (F2), Spoonbill_51 (F1), Stap_52 (F1), Tootsieroll_55 (F1), Velveteen_48 (F1), Whatsapiecost_54 (F1), Whouxphf_51 (F1), Zapner_66 (F2),

Start 38:
• Found in 70 of 232 (30.2%) of genes in pham
• Manual Annotations of this start: 59 of 214
• Called 94.3% of time when present
• Phage (with cluster) where this start called: Akhila_45 (F1), Alexphander_58 (F1), AlpineSix_58 (F1), Bubbles123_51 (F1), Cheesepuff_59 (F1), Corium_50 (F1), Cornie_48 (F5), DLane_49 (F1), DaWorst_55 (F1), DeadP_59 (F1), DirtMcgirt_53 (F1), Doug_56 (F1), Drago_52 (F1), Emma_53 (F1), Firehouse51_54 (F1), Flathead_53 (F1), Fruitloop_51 (F1), Girafales_63 (F1), Guppsters_54 (F1), Hamulus_54 (F1), Hegedechwinu_53 (F1), IMpilo_50 (F1), JalFarm20_65 (F1), Jant_57 (F1), Jinglebell_58 (F1), KingJulian_53 (F1), Krakatau_51 (F1), KristaRAM_56 (F1), LilMoolah_52 (F1), Llama_58 (F1), Llij_50 (F1), Lucia_53 (F1), Medindi_51 (F1), Melissauren88_51 (F1), MilanaBonita_44 (F1), MilleniumForce_57 (F1), Modragons_57 (F1), Moonbeam_49 (F1), Ms6_48 (F1), Mutaforma13_57 (F1), Nitzel_50 (F1), Nivrat_50 (F1), Ochi17_56 (F1), OfUltron_58 (F1), Okabe_48 (F8), Peridot_52 (F1), Phalconet_52 (F1), Phatniss_52 (F1), PhesterPhotato_55 (F1), Polka14_52 (F1), Renaud18_59 (F4), RockyHorror_54 (F1), Seabastian_58 (F1), ShroomBoi_55 (F1), SilverChicken_63 (F2), Sparkdehlily_61 (F1), Spikelee_60 (F1), SwagPigglett_59 (F1), TDanisky_61 (F1), Taj_57 (F1), Tchotchke_55 (F1), UncleRicky_53 (F1), Wee_56 (F1), XFactor_51 (F1), Zerg_53 (F1), Zizzle_58 (F1),

Start 39:
• Found in 23 of 232 (9.9%) of genes in pham
• Manual Annotations of this start: 21 of 214

• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArcusAngelus_57 (F1), Ardmore_45 (F1), Bobi_56 (F1), BodEinwohner17_54 (F1), Brushbloom_56 (F1), Chevrolet_60 (F1), Cornucopia_56 (F1), DRBy19_57 (F1), DosHalletts_56 (F1), Enby_54 (F1), Harley_55 (F1), Ibhubesi_53 (F1), Lorde_54 (F1), MooMoo_51 (singleton), OwlsT2W_54 (F1), Philus_57 (F1), Radiance_53 (F1), SG4_50 (F1), Sandalphon_55 (F1), Toron_57 (F6), Tweety_53 (F1), Vivum_55 (F1), Wachhund_55 (F1),

Start 42:
• Found in 211 of 232 (90.9%) of genes in pham
• Manual Annotations of this start: 1 of 214
• Called 0.5% of time when present
• Phage (with cluster) where this start called: Juice456_54 (F1),

Start 44:
• Found in 2 of 232 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 214
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DotProduct_49 (F1), GigiOuiOui_50 (F1),

Start 49:
• Found in 184 of 232 (79.3%) of genes in pham
• No Manual Annotations of this start.
• Called 0.5% of time when present
• Phage (with cluster) where this start called: EmiMonkey_51 (F1),

Summary by clusters:

There are 8 clusters represented in this pham: F1, F2, F4, F5, F6, F, F8, singleton,

Info for manual annotations of cluster F1:
•Start number 5 was manually annotated 1 time for cluster F1.
•Start number 7 was manually annotated 1 time for cluster F1.
•Start number 17 was manually annotated 1 time for cluster F1.
•Start number 34 was manually annotated 2 times for cluster F1.
•Start number 35 was manually annotated 2 times for cluster F1.
•Start number 36 was manually annotated 58 times for cluster F1.
•Start number 37 was manually annotated 56 times for cluster F1.
•Start number 38 was manually annotated 57 times for cluster F1.
•Start number 39 was manually annotated 20 times for cluster F1.
•Start number 42 was manually annotated 1 time for cluster F1.
•Start number 44 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 36 was manually annotated 3 times for cluster F2.
•Start number 37 was manually annotated 4 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 5 was manually annotated 2 times for cluster F4.
•Start number 36 was manually annotated 1 time for cluster F4.
•Start number 38 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:
•Start number 38 was manually annotated 1 time for cluster F5.

Gene Information:

Gene: Akhila_45 Start: 33238, Stop: 33918, Start Num: 38
Candidate Starts for Akhila_45:
(Start: 38 @33238 has 59 MA's), (40, 33256), (Start: 42 @33277 has 1 MA's), (47, 33298), (49, 33301), (51, 33310), (52, 33313), (60, 33349), (61, 33361), (76, 33418), (116, 33526), (124, 33580), (129, 33607), (137, 33661), (146, 33730), (147, 33736), (151, 33781), (156, 33811), (172, 33859),

Gene: Alexphander_58 Start: 38096, Stop: 38746, Start Num: 38
Candidate Starts for Alexphander_58:
(Start: 38 @38096 has 59 MA's), (40, 38114), (Start: 42 @38135 has 1 MA's), (47, 38156), (49, 38159), (51, 38168), (52, 38171), (56, 38183), (60, 38207), (61, 38219), (65, 38237), (104, 38384), (124, 38438), (129, 38465), (146, 38558), (147, 38564), (151, 38609), (156, 38639), (172, 38687),

Gene: AlpineSix_58 Start: 39417, Stop: 40004, Start Num: 38
Candidate Starts for AlpineSix_58:
(26, 39387), (Start: 38 @39417 has 59 MA's), (40, 39435), (Start: 42 @39456 has 1 MA's), (52, 39492), (60, 39528), (61, 39540), (65, 39558), (71, 39579), (76, 39597), (124, 39663), (129, 39690), (146, 39813), (147, 39819), (178, 39957),

Gene: ArcusAngelus_57 Start: 38680, Stop: 39342, Start Num: 39
Candidate Starts for ArcusAngelus_57:
(Start: 39 @38680 has 21 MA's), (40, 38698), (Start: 42 @38719 has 1 MA's), (47, 38740), (49, 38743), (51, 38752), (52, 38755), (60, 38791), (61, 38803), (65, 38821), (67, 38842), (69, 38848), (75, 38878), (80, 38917), (82, 38923), (122, 39004), (125, 39010), (127, 39019), (146, 39154), (147, 39160), (151, 39205), (156, 39235), (172, 39283),

Gene: Ardmore_45 Start: 35444, Stop: 36049, Start Num: 39
Candidate Starts for Ardmore_45:
(Start: 39 @35444 has 21 MA's), (40, 35462), (Start: 42 @35483 has 1 MA's), (47, 35504), (49, 35507), (51, 35516), (52, 35519), (56, 35531), (60, 35555), (61, 35567), (75, 35585), (80, 35624), (82, 35630), (122, 35711), (125, 35717), (127, 35726), (146, 35861), (147, 35867), (151, 35912), (156, 35942), (172, 35990),

Gene: Aubs_54 Start: 37500, Stop: 38252, Start Num: 7
Candidate Starts for Aubs_54:
(Start: 5 @37461 has 3 MA's), (6, 37479), (Start: 7 @37500 has 1 MA's), (8, 37521), (9, 37524), (10, 37533), (11, 37536), (13, 37548), (14, 37572), (18, 37584), (24, 37602), (31, 37623), (32, 37629), (41, 37674), (57, 37728), (75, 37788), (80, 37827), (82, 37833), (122, 37914), (125, 37920), (127, 37929), (146, 38064), (147, 38070), (151, 38115), (156, 38145), (166, 38175), (172, 38193),

Gene: Avani_61 Start: 37581, Stop: 38282, Start Num: 37
Candidate Starts for Avani_61:
(22, 37551), (Start: 37 @37581 has 60 MA's), (40, 37599), (Start: 42 @37620 has 1 MA's), (47, 37641), (49, 37644), (51, 37653), (52, 37656), (59, 37677), (60, 37692), (61, 37704), (71, 37743), (72, 37749),

(115, 37860), (119, 37872), (124, 37920), (129, 37947), (146, 38094), (147, 38100), (151, 38145), (156, 38175), (172, 38223),

Gene: Beakin_55 Start: 37066, Stop: 37683, Start Num: 36
Candidate Starts for Beakin_55:
(16, 37015), (19, 37024), (29, 37054), (33, 37063), (Start: 36 @37066 has 62 MA's), (40, 37084), (Start: 42 @37096 has 1 MA's), (47, 37117), (49, 37120), (51, 37129), (52, 37132), (55, 37141), (60, 37168), (65, 37198), (71, 37219), (72, 37225), (76, 37237), (124, 37297), (129, 37324), (146, 37483), (147, 37489), (151, 37534), (153, 37552), (156, 37567), (159, 37573),

Gene: Beanstalk_52 Start: 36451, Stop: 37065, Start Num: 37
Candidate Starts for Beanstalk_52:
(22, 36421), (Start: 37 @36451 has 60 MA's), (40, 36469), (Start: 42 @36490 has 1 MA's), (47, 36511), (49, 36514), (51, 36523), (52, 36526), (56, 36538), (59, 36547), (60, 36562), (65, 36592), (71, 36613), (72, 36619), (124, 36691), (129, 36718), (146, 36877), (147, 36883), (149, 36904), (151, 36928), (156, 36958), (172, 37006),

Gene: BigPhil_49 Start: 33538, Stop: 34161, Start Num: 37
Candidate Starts for BigPhil_49:
(Start: 37 @33538 has 60 MA's), (40, 33556), (Start: 42 @33577 has 1 MA's), (47, 33598), (49, 33601), (51, 33610), (52, 33613), (56, 33625), (59, 33634), (60, 33649), (61, 33661), (71, 33700), (72, 33706), (76, 33718), (124, 33784), (129, 33811), (146, 33970), (147, 33976), (161, 34060), (180, 34114),

Gene: Bipolar_53 Start: 37987, Stop: 38499, Start Num: 17
Candidate Starts for Bipolar_53:
(Start: 17 @37987 has 1 MA's), (21, 37996), (30, 38026), (Start: 34 @38035 has 2 MA's), (Start: 38 @38038 has 59 MA's), (40, 38056), (Start: 42 @38077 has 1 MA's), (47, 38098), (49, 38101), (51, 38110), (52, 38113), (60, 38149), (61, 38161), (146, 38311), (147, 38317), (151, 38362), (156, 38392), (172, 38440),

Gene: Blexus_51 Start: 37239, Stop: 37844, Start Num: 37
Candidate Starts for Blexus_51:
(22, 37209), (Start: 37 @37239 has 60 MA's), (40, 37257), (Start: 42 @37269 has 1 MA's), (47, 37290), (49, 37293), (51, 37302), (52, 37305), (56, 37317), (59, 37326), (60, 37341), (65, 37371), (71, 37392), (72, 37398), (124, 37470), (129, 37497), (146, 37656), (147, 37662), (151, 37707), (156, 37737), (172, 37785),

Gene: BobaPhett_57 Start: 40029, Stop: 40682, Start Num: 36
Candidate Starts for BobaPhett_57:
(Start: 36 @40029 has 62 MA's), (40, 40047), (Start: 42 @40068 has 1 MA's), (47, 40089), (49, 40092), (51, 40101), (52, 40104), (60, 40140), (61, 40152), (124, 40275), (129, 40302), (146, 40461), (147, 40467), (153, 40530),

Gene: Bobi_56 Start: 38447, Stop: 39109, Start Num: 39
Candidate Starts for Bobi_56:
(Start: 39 @38447 has 21 MA's), (40, 38465), (Start: 42 @38486 has 1 MA's), (47, 38507), (49, 38510), (51, 38519), (52, 38522), (60, 38558), (61, 38570), (65, 38588), (75, 38645), (80, 38684), (82, 38690), (122, 38771), (125, 38777), (127, 38786), (146, 38921), (147, 38927), (151, 38972), (156, 39002), (172, 39050),

Gene: BodEinwohner17_54 Start: 37181, Stop: 37786, Start Num: 39
Candidate Starts for BodEinwohner17_54:

(28, 37151), (Start: 39 @37181 has 21 MA's), (40, 37199), (Start: 42 @37220 has 1 MA's), (46, 37235), (51, 37253), (52, 37256), (56, 37268), (60, 37292), (61, 37304), (75, 37322), (80, 37361), (82, 37367), (122, 37448), (125, 37454), (127, 37463), (146, 37598), (147, 37604), (151, 37649), (156, 37679), (172, 37727),

Gene: Boomer_58 Start: 39232, Stop: 39855, Start Num: 37
Candidate Starts for Boomer_58:
(Start: 37 @39232 has 60 MA's), (40, 39250), (Start: 42 @39271 has 1 MA's), (47, 39292), (49, 39295), (51, 39304), (52, 39307), (56, 39319), (59, 39328), (60, 39343), (61, 39355), (71, 39394), (72, 39400), (76, 39412), (124, 39478), (129, 39505), (146, 39664), (147, 39670), (161, 39754), (180, 39808),

Gene: Brocalys_49 Start: 34514, Stop: 35161, Start Num: 36
Candidate Starts for Brocalys_49:
(25, 34484), (Start: 36 @34514 has 62 MA's), (40, 34532), (Start: 42 @34553 has 1 MA's), (47, 34574), (49, 34577), (51, 34586), (52, 34589), (60, 34625), (61, 34637), (71, 34676), (124, 34754), (129, 34781), (146, 34940), (147, 34946), (153, 35009),

Gene: Brookers_50 Start: 36489, Stop: 37112, Start Num: 37
Candidate Starts for Brookers_50:
(Start: 37 @36489 has 60 MA's), (40, 36507), (Start: 42 @36528 has 1 MA's), (47, 36549), (49, 36552), (51, 36561), (52, 36564), (56, 36576), (59, 36585), (60, 36600), (61, 36612), (71, 36651), (72, 36657), (76, 36669), (124, 36735), (129, 36762), (146, 36921), (147, 36927), (161, 37011), (180, 37065),

Gene: Brushbloom_56 Start: 38072, Stop: 38854, Start Num: 39
Candidate Starts for Brushbloom_56:
(Start: 39 @38072 has 21 MA's), (40, 38090), (43, 38114), (45, 38123), (53, 38168), (54, 38171), (61, 38210), (63, 38219), (86, 38285), (88, 38291), (108, 38336), (114, 38393), (131, 38522), (143, 38609), (146, 38666), (151, 38717), (153, 38735), (160, 38756), (168, 38786), (174, 38798),

Gene: Bubbles123_51 Start: 37879, Stop: 38607, Start Num: 38
Candidate Starts for Bubbles123_51:
(Start: 38 @37879 has 59 MA's), (40, 37897), (Start: 42 @37918 has 1 MA's), (47, 37939), (49, 37942), (51, 37951), (52, 37954), (60, 37990), (61, 38002), (91, 38122), (95, 38131), (98, 38137), (107, 38173), (110, 38197), (124, 38269), (129, 38296), (137, 38350), (146, 38419), (147, 38425), (151, 38470), (156, 38500), (172, 38548),

Gene: Burwell21_52 Start: 37612, Stop: 38259, Start Num: 36
Candidate Starts for Burwell21_52:
(25, 37582), (Start: 36 @37612 has 62 MA's), (40, 37630), (Start: 42 @37651 has 1 MA's), (49, 37675), (51, 37684), (52, 37687), (60, 37723), (61, 37735), (71, 37774), (124, 37852), (129, 37879), (146, 38038), (147, 38044), (153, 38107),

Gene: Byougenkin_51 Start: 37130, Stop: 37723, Start Num: 36
Candidate Starts for Byougenkin_51:
(Start: 36 @37130 has 62 MA's), (40, 37148), (Start: 42 @37169 has 1 MA's), (51, 37202), (52, 37205), (60, 37241), (61, 37253), (71, 37292), (124, 37370), (129, 37397), (144, 37502), (146, 37523), (147, 37529), (151, 37574), (153, 37592), (156, 37607), (159, 37613),

Gene: Cabrinians_55 Start: 37690, Stop: 38337, Start Num: 36
Candidate Starts for Cabrinians_55:
(25, 37660), (Start: 36 @37690 has 62 MA's), (40, 37708), (Start: 42 @37729 has 1 MA's), (49, 37753), (51, 37762), (52, 37765), (60, 37801), (61, 37813), (71, 37852), (124, 37930), (129, 37957), (146, 38116), (147, 38122), (153, 38185),

Gene: CaptainTrips_50 Start: 36293, Stop: 37006, Start Num: 37
Candidate Starts for CaptainTrips_50:
(Start: 37 @36293 has 60 MA's), (40, 36311), (Start: 42 @36332 has 1 MA's), (47, 36353), (49, 36356), (51, 36365), (52, 36368), (60, 36404), (61, 36416), (83, 36503), (92, 36539), (100, 36563), (124, 36635), (129, 36662), (142, 36743), (146, 36818), (147, 36824), (149, 36845), (151, 36869), (156, 36899), (172, 36947),

Gene: Cerasum_49 Start: 33556, Stop: 34179, Start Num: 37
Candidate Starts for Cerasum_49:
(Start: 37 @33556 has 60 MA's), (40, 33574), (Start: 42 @33595 has 1 MA's), (47, 33616), (49, 33619), (51, 33628), (52, 33631), (56, 33643), (59, 33652), (60, 33667), (61, 33679), (71, 33718), (72, 33724), (76, 33736), (124, 33802), (129, 33829), (146, 33988), (147, 33994), (161, 34078), (180, 34132),

Gene: Che8_56 Start: 38547, Stop: 39161, Start Num: 36
Candidate Starts for Che8_56:
(Start: 36 @38547 has 62 MA's), (40, 38565), (Start: 42 @38586 has 1 MA's), (47, 38607), (51, 38619), (52, 38622), (59, 38643), (60, 38658), (71, 38709), (72, 38715), (76, 38727), (124, 38787), (129, 38814), (146, 38961), (147, 38967), (151, 39012), (153, 39030), (156, 39045), (159, 39051),

Gene: Che9d_60 Start: 37007, Stop: 37564, Start Num: 36
Candidate Starts for Che9d_60:
(15, 36953), (Start: 36 @37007 has 62 MA's), (40, 37025), (Start: 42 @37046 has 1 MA's), (47, 37067), (49, 37070), (52, 37082), (56, 37094), (60, 37118), (61, 37130), (71, 37169), (72, 37175), (124, 37253), (129, 37280), (146, 37364), (147, 37370), (151, 37415), (153, 37433), (156, 37448), (159, 37454),

Gene: Cheesepuff_59 Start: 39214, Stop: 39894, Start Num: 38
Candidate Starts for Cheesepuff_59:
(Start: 38 @39214 has 59 MA's), (40, 39232), (Start: 42 @39253 has 1 MA's), (47, 39274), (49, 39277), (51, 39286), (52, 39289), (60, 39325), (61, 39337), (76, 39394), (116, 39502), (124, 39556), (129, 39583), (137, 39637), (146, 39706), (147, 39712), (151, 39757), (156, 39787), (172, 39835),

Gene: Chevrolet_60 Start: 38681, Stop: 39343, Start Num: 39
Candidate Starts for Chevrolet_60:
(Start: 39 @38681 has 21 MA's), (40, 38699), (Start: 42 @38720 has 1 MA's), (47, 38741), (49, 38744), (51, 38753), (52, 38756), (60, 38792), (61, 38804), (65, 38822), (67, 38843), (69, 38849), (75, 38879), (80, 38918), (82, 38924), (122, 39005), (125, 39011), (127, 39020), (146, 39155), (147, 39161), (151, 39206), (156, 39236), (172, 39284),

Gene: Chuckly_56 Start: 38038, Stop: 38685, Start Num: 36
Candidate Starts for Chuckly_56:
(Start: 36 @38038 has 62 MA's), (40, 38056), (Start: 42 @38077 has 1 MA's), (47, 38098), (49, 38101), (51, 38110), (52, 38113), (60, 38149), (65, 38179), (71, 38200), (72, 38206), (76, 38218), (124, 38278), (129, 38305), (146, 38464), (147, 38470), (153, 38533),

Gene: Clank_58 Start: 38368, Stop: 39015, Start Num: 36
Candidate Starts for Clank_58:
(Start: 36 @38368 has 62 MA's), (40, 38386), (Start: 42 @38407 has 1 MA's), (47, 38428), (49, 38431), (51, 38440), (52, 38443), (60, 38479), (65, 38509), (71, 38530), (72, 38536), (76, 38548), (124, 38608), (129, 38635), (146, 38794), (147, 38800), (153, 38863),

Gene: Clifton_49 Start: 34865, Stop: 35512, Start Num: 36
Candidate Starts for Clifton_49:

(25, 34835), (Start: 36 @34865 has 62 MA's), (40, 34883), (Start: 42 @34904 has 1 MA's), (47, 34925), (49, 34928), (51, 34937), (52, 34940), (60, 34976), (61, 34988), (71, 35027), (124, 35105), (129, 35132), (146, 35291), (147, 35297), (153, 35360),

Gene: Coco12_52 Start: 37613, Stop: 38236, Start Num: 37
Candidate Starts for Coco12_52:
(Start: 37 @37613 has 60 MA's), (40, 37631), (Start: 42 @37652 has 1 MA's), (47, 37673), (49, 37676), (51, 37685), (52, 37688), (56, 37700), (59, 37709), (60, 37724), (61, 37736), (71, 37775), (72, 37781), (76, 37793), (124, 37859), (129, 37886), (146, 38045), (147, 38051), (161, 38135), (180, 38189),

Gene: Corium_50 Start: 36569, Stop: 37195, Start Num: 38
Candidate Starts for Corium_50:
(Start: 17 @36518 has 1 MA's), (21, 36527), (30, 36557), (Start: 34 @36566 has 2 MA's), (Start: 38 @36569 has 59 MA's), (40, 36587), (Start: 42 @36599 has 1 MA's), (47, 36620), (49, 36623), (51, 36632), (52, 36635), (55, 36644), (60, 36671), (61, 36683), (91, 36803), (124, 36875), (129, 36902), (146, 36995), (147, 37001), (151, 37046), (153, 37064), (156, 37079), (159, 37085),

Gene: Cornie_48 Start: 35673, Stop: 36353, Start Num: 38
Candidate Starts for Cornie_48:
(Start: 38 @35673 has 59 MA's), (40, 35691), (Start: 42 @35712 has 1 MA's), (47, 35733), (49, 35736), (51, 35745), (52, 35748), (60, 35784), (61, 35796), (76, 35853), (116, 35961), (124, 36015), (129, 36042), (137, 36096), (146, 36165), (147, 36171), (151, 36216), (156, 36246), (172, 36294),

Gene: Cornucopia_56 Start: 38383, Stop: 38988, Start Num: 39
Candidate Starts for Cornucopia_56:
(Start: 39 @38383 has 21 MA's), (40, 38401), (Start: 42 @38422 has 1 MA's), (47, 38443), (49, 38446), (51, 38455), (52, 38458), (56, 38470), (60, 38494), (61, 38506), (75, 38524), (80, 38563), (82, 38569), (122, 38650), (125, 38656), (127, 38665), (146, 38800), (147, 38806), (151, 38851), (156, 38881), (172, 38929),

Gene: Crumble_49 Start: 33626, Stop: 34273, Start Num: 36
Candidate Starts for Crumble_49:
(25, 33596), (Start: 36 @33626 has 62 MA's), (40, 33644), (Start: 42 @33665 has 1 MA's), (49, 33689), (51, 33698), (52, 33701), (60, 33737), (61, 33749), (71, 33788), (124, 33866), (129, 33893), (146, 34052), (147, 34058), (153, 34121),

Gene: DLane_49 Start: 36378, Stop: 37049, Start Num: 38
Candidate Starts for DLane_49:
(Start: 38 @36378 has 59 MA's), (40, 36396), (Start: 42 @36417 has 1 MA's), (47, 36438), (49, 36441), (51, 36450), (52, 36453), (60, 36489), (61, 36501), (76, 36558), (116, 36666), (124, 36720), (129, 36747), (146, 36870), (147, 36876), (163, 36960), (179, 37002),

Gene: DRBy19_57 Start: 38817, Stop: 39434, Start Num: 39
Candidate Starts for DRBy19_57:
(Start: 39 @38817 has 21 MA's), (40, 38835), (Start: 42 @38856 has 1 MA's), (47, 38877), (49, 38880), (51, 38889), (52, 38892), (56, 38904), (60, 38928), (61, 38940), (75, 38958), (80, 38997), (82, 39003), (122, 39084), (125, 39090), (127, 39099), (146, 39234), (147, 39240), (151, 39285), (153, 39303), (156, 39318), (159, 39324),

Gene: DaWorst_55 Start: 38273, Stop: 38734, Start Num: 38
Candidate Starts for DaWorst_55:
(Start: 38 @38273 has 59 MA's), (40, 38291), (Start: 42 @38312 has 1 MA's), (47, 38333), (49, 38336), (51, 38345), (52, 38348), (60, 38384), (61, 38396), (146, 38546), (147, 38552), (151, 38597), (156,

38627), (172, 38675),

Gene: DaddyRickover_53 Start: 37900, Stop: 38478, Start Num: 37
Candidate Starts for DaddyRickover_53:
(Start: 37 @37900 has 60 MA's), (40, 37918), (47, 37960), (52, 37975), (59, 37996), (60, 38011), (61, 38023), (65, 38041), (71, 38062), (72, 38068), (124, 38140), (129, 38167), (137, 38221), (146, 38290), (147, 38296), (151, 38341), (156, 38371), (166, 38401), (172, 38419),

Gene: Daenerys_48 Start: 35908, Stop: 36597, Start Num: 37
Candidate Starts for Daenerys_48:
(22, 35878), (Start: 37 @35908 has 60 MA's), (40, 35926), (Start: 42 @35947 has 1 MA's), (47, 35968), (49, 35971), (51, 35980), (52, 35983), (56, 35995), (60, 36019), (61, 36031), (91, 36151), (124, 36223), (129, 36250), (146, 36409), (147, 36415), (151, 36460), (156, 36490), (172, 36538),

Gene: Dante_54 Start: 37263, Stop: 38090, Start Num: 37
Candidate Starts for Dante_54:
(Start: 37 @37263 has 60 MA's), (40, 37281), (Start: 42 @37302 has 1 MA's), (49, 37326), (51, 37335), (52, 37338), (60, 37374), (61, 37386), (71, 37425), (91, 37506), (100, 37533), (124, 37725), (129, 37752), (146, 37911), (147, 37917), (161, 38001), (180, 38043),

Gene: DeadP_59 Start: 39156, Stop: 39872, Start Num: 38
Candidate Starts for DeadP_59:
(Start: 38 @39156 has 59 MA's), (40, 39174), (46, 39210), (47, 39216), (50, 39231), (51, 39237), (52, 39252), (56, 39264), (59, 39273), (60, 39288), (64, 39312), (115, 39450), (119, 39462), (124, 39510), (129, 39537), (146, 39684), (147, 39690), (151, 39735), (153, 39753), (159, 39774), (165, 39804), (169, 39816),

Gene: Deb65_49 Start: 35877, Stop: 36566, Start Num: 37
Candidate Starts for Deb65_49:
(22, 35847), (Start: 37 @35877 has 60 MA's), (40, 35895), (Start: 42 @35916 has 1 MA's), (47, 35937), (49, 35940), (51, 35949), (52, 35952), (56, 35964), (60, 35988), (61, 36000), (91, 36120), (124, 36192), (129, 36219), (146, 36378), (147, 36384), (151, 36429), (156, 36459), (172, 36507),

Gene: Demsculpinboyz_63 Start: 37137, Stop: 37874, Start Num: 36
Candidate Starts for Demsculpinboyz_63:
(Start: 36 @37137 has 62 MA's), (40, 37155), (Start: 42 @37176 has 1 MA's), (47, 37197), (49, 37200), (51, 37209), (52, 37212), (60, 37248), (61, 37260), (89, 37380), (96, 37395), (99, 37407), (106, 37431), (109, 37455), (118, 37476), (124, 37527), (129, 37554), (141, 37605), (146, 37674), (147, 37680), (151, 37725), (153, 37743), (156, 37758), (159, 37764),

Gene: DillTech15_50 Start: 36028, Stop: 36630, Start Num: 37
Candidate Starts for DillTech15_50:
(22, 35998), (Start: 37 @36028 has 60 MA's), (40, 36046), (Start: 42 @36067 has 1 MA's), (46, 36082), (51, 36100), (52, 36103), (60, 36139), (61, 36151), (65, 36169), (71, 36190), (124, 36268), (129, 36295), (146, 36442), (147, 36448), (151, 36493), (152, 36508), (156, 36523), (172, 36571),

Gene: DirtMcgirt_53 Start: 36388, Stop: 36972, Start Num: 38
Candidate Starts for DirtMcgirt_53:
(Start: 38 @36388 has 59 MA's), (40, 36406), (Start: 42 @36427 has 1 MA's), (47, 36448), (49, 36451), (51, 36460), (52, 36463), (60, 36499), (61, 36511), (124, 36634), (129, 36661), (137, 36715), (146, 36784), (147, 36790), (151, 36835), (156, 36865), (172, 36913),

Gene: DoRead_55 Start: 36444, Stop: 37262, Start Num: 36

Candidate Starts for DoRead_55:
(Start: 36 @36444 has 62 MA's), (40, 36462), (Start: 42 @36483 has 1 MA's), (46, 36498), (51, 36516), (52, 36519), (59, 36540), (60, 36555), (65, 36585), (71, 36606), (72, 36612), (88, 36681), (100, 36720), (103, 36732), (111, 36780), (124, 36855), (129, 36882), (146, 37041), (147, 37047), (151, 37092), (153, 37110),

Gene: Doomphist_53 Start: 38418, Stop: 39137, Start Num: 34
Candidate Starts for Doomphist_53:
(Start: 34 @38418 has 2 MA's), (40, 38436), (Start: 42 @38457 has 1 MA's), (47, 38478), (49, 38481), (51, 38490), (52, 38493), (60, 38529), (61, 38541), (65, 38559), (71, 38580), (72, 38586), (88, 38655), (100, 38694), (103, 38706), (111, 38754), (124, 38829), (129, 38856), (146, 38949), (147, 38955), (151, 39000), (156, 39030), (172, 39078),

Gene: Doomslug_61 Start: 37233, Stop: 38018, Start Num: 34
Candidate Starts for Doomslug_61:
(Start: 17 @37185 has 1 MA's), (21, 37194), (30, 37224), (Start: 34 @37233 has 2 MA's), (Start: 38 @37236 has 59 MA's), (40, 37254), (Start: 42 @37275 has 1 MA's), (47, 37296), (49, 37299), (51, 37308), (52, 37311), (60, 37347), (61, 37359), (91, 37479), (100, 37506), (124, 37698), (129, 37725), (146, 37818), (147, 37824), (151, 37869), (153, 37887), (176, 37968),

Gene: DosHalletts_56 Start: 38883, Stop: 39794, Start Num: 39
Candidate Starts for DosHalletts_56:
(Start: 39 @38883 has 21 MA's), (40, 38901), (43, 38925), (45, 38934), (54, 38982), (61, 39021), (63, 39030), (68, 39063), (73, 39096), (74, 39099), (79, 39144), (84, 39156), (114, 39333), (131, 39462), (143, 39549), (146, 39606), (151, 39657), (157, 39687), (174, 39735),

Gene: DotProduct_49 Start: 36494, Stop: 37054, Start Num: 44
Candidate Starts for DotProduct_49:
(Start: 44 @36494 has 2 MA's), (48, 36509), (49, 36512), (51, 36521), (52, 36524), (56, 36536), (60, 36560), (61, 36572), (75, 36590), (80, 36629), (82, 36635), (122, 36716), (125, 36722), (127, 36731), (146, 36866), (147, 36872), (151, 36917), (156, 36947), (172, 36995),

Gene: Doug_56 Start: 38539, Stop: 39000, Start Num: 38
Candidate Starts for Doug_56:
(Start: 38 @38539 has 59 MA's), (40, 38557), (Start: 42 @38578 has 1 MA's), (47, 38599), (49, 38602), (51, 38611), (52, 38614), (60, 38650), (61, 38662), (146, 38812), (147, 38818), (151, 38863), (156, 38893), (172, 38941),

Gene: Drago_52 Start: 36391, Stop: 36975, Start Num: 38
Candidate Starts for Drago_52:
(Start: 38 @36391 has 59 MA's), (40, 36409), (Start: 42 @36430 has 1 MA's), (47, 36451), (49, 36454), (51, 36463), (52, 36466), (60, 36502), (61, 36514), (124, 36637), (129, 36664), (137, 36718), (146, 36787), (147, 36793), (151, 36838), (156, 36868), (172, 36916),

Gene: Eish_58 Start: 38625, Stop: 39248, Start Num: 37
Candidate Starts for Eish_58:
(Start: 37 @38625 has 60 MA's), (40, 38643), (Start: 42 @38664 has 1 MA's), (47, 38685), (49, 38688), (51, 38697), (52, 38700), (56, 38712), (59, 38721), (60, 38736), (61, 38748), (71, 38787), (72, 38793), (76, 38805), (124, 38871), (129, 38898), (146, 39057), (147, 39063), (161, 39147),

Gene: EleanorGeorge_52 Start: 36852, Stop: 37499, Start Num: 36
Candidate Starts for EleanorGeorge_52:

(Start: 36 @36852 has 62 MA's), (Start: 42 @36891 has 1 MA's), (49, 36915), (51, 36924), (52, 36927), (60, 36963), (61, 36975), (71, 37014), (124, 37092), (129, 37119), (146, 37278), (147, 37284), (153, 37347),

Gene: EmiMonkey_51 Start: 38692, Stop: 39168, Start Num: 49
Candidate Starts for EmiMonkey_51:
(Start: 36 @38629 has 62 MA's), (40, 38647), (Start: 42 @38668 has 1 MA's), (47, 38689), (49, 38692), (51, 38701), (52, 38704), (56, 38716), (60, 38740), (61, 38752), (71, 38791), (72, 38797), (76, 38809), (124, 38869), (129, 38896), (146, 38989), (147, 38995), (159, 39079), (178, 39121),

Gene: Emma_53 Start: 36635, Stop: 37219, Start Num: 38
Candidate Starts for Emma_53:
(Start: 38 @36635 has 59 MA's), (40, 36653), (Start: 42 @36674 has 1 MA's), (47, 36695), (49, 36698), (51, 36707), (52, 36710), (60, 36746), (61, 36758), (65, 36776), (101, 36881), (120, 36908), (137, 36962), (146, 37031), (147, 37037), (151, 37082), (153, 37100), (159, 37121), (165, 37151), (171, 37163),

Gene: Empress_52 Start: 37322, Stop: 38011, Start Num: 37
Candidate Starts for Empress_52:
(22, 37292), (Start: 37 @37322 has 60 MA's), (40, 37340), (Start: 42 @37361 has 1 MA's), (47, 37382), (49, 37385), (51, 37394), (52, 37397), (56, 37409), (60, 37433), (61, 37445), (91, 37565), (124, 37637), (129, 37664), (146, 37823), (147, 37829), (151, 37874), (156, 37904), (172, 37952),

Gene: Enby_54 Start: 35779, Stop: 36441, Start Num: 39
Candidate Starts for Enby_54:
(Start: 39 @35779 has 21 MA's), (40, 35797), (Start: 42 @35818 has 1 MA's), (47, 35839), (49, 35842), (51, 35851), (52, 35854), (60, 35890), (61, 35902), (65, 35920), (67, 35941), (69, 35947), (75, 35977), (80, 36016), (82, 36022), (122, 36103), (125, 36109), (127, 36118), (146, 36253), (147, 36259), (151, 36304), (156, 36334), (166, 36364), (172, 36382),

Gene: Enzomatic_60 Start: 37497, Stop: 38108, Start Num: 36
Candidate Starts for Enzomatic_60:
(25, 37467), (Start: 36 @37497 has 62 MA's), (40, 37515), (Start: 42 @37536 has 1 MA's), (47, 37557), (49, 37560), (51, 37569), (52, 37572), (60, 37608), (61, 37620), (71, 37659), (72, 37665), (124, 37737), (129, 37764), (146, 37887), (147, 37893), (153, 37956),

Gene: Estave1_56 Start: 37990, Stop: 38661, Start Num: 36
Candidate Starts for Estave1_56:
(Start: 36 @37990 has 62 MA's), (40, 38008), (Start: 42 @38029 has 1 MA's), (47, 38050), (49, 38053), (51, 38062), (52, 38065), (59, 38086), (60, 38101), (64, 38125), (115, 38263), (119, 38275), (124, 38323), (129, 38350), (137, 38404), (146, 38473), (147, 38479), (151, 38524), (153, 38542), (159, 38563), (165, 38593), (169, 38605),

Gene: Fancypants_56 Start: 38391, Stop: 38969, Start Num: 36
Candidate Starts for Fancypants_56:
(Start: 36 @38391 has 62 MA's), (40, 38409), (Start: 42 @38430 has 1 MA's), (47, 38451), (49, 38454), (51, 38463), (52, 38466), (56, 38478), (60, 38502), (61, 38514), (65, 38532), (71, 38553), (72, 38559), (129, 38658), (146, 38778), (147, 38784), (159, 38868),

Gene: Fastidio_53 Start: 36175, Stop: 36777, Start Num: 37
Candidate Starts for Fastidio_53:
(22, 36145), (Start: 37 @36175 has 60 MA's), (40, 36193), (Start: 42 @36214 has 1 MA's), (46, 36229), (51, 36247), (52, 36250), (60, 36286), (61, 36298), (65, 36316), (71, 36337), (124, 36415), (129,

36442), (146, 36589), (147, 36595), (151, 36640), (152, 36655), (156, 36670), (172, 36718),

Gene: Firehouse51_54 Start: 40200, Stop: 40946, Start Num: 38
Candidate Starts for Firehouse51_54:
(Start: 38 @40200 has 59 MA's), (40, 40218), (Start: 42 @40239 has 1 MA's), (49, 40263), (55, 40284), (60, 40311), (61, 40323), (71, 40362), (72, 40368), (88, 40437), (100, 40476), (103, 40488), (111, 40536), (124, 40611), (129, 40638), (137, 40689), (146, 40758), (147, 40764), (151, 40809), (156, 40839), (166, 40869), (172, 40887),

Gene: Flathead_53 Start: 37749, Stop: 38234, Start Num: 38
Candidate Starts for Flathead_53:
(Start: 38 @37749 has 59 MA's), (40, 37767), (Start: 42 @37788 has 1 MA's), (47, 37809), (49, 37812), (51, 37821), (52, 37824), (60, 37860), (61, 37872), (71, 37911), (137, 37974), (146, 38046), (151, 38097), (153, 38115), (159, 38136), (165, 38166), (171, 38178),

Gene: Florinda_65 Start: 39887, Stop: 40492, Start Num: 37
Candidate Starts for Florinda_65:
(22, 39857), (Start: 37 @39887 has 60 MA's), (40, 39905), (Start: 42 @39926 has 1 MA's), (47, 39947), (49, 39950), (51, 39959), (52, 39962), (56, 39974), (59, 39983), (60, 39998), (61, 40010), (71, 40049), (72, 40055), (129, 40154), (146, 40301), (147, 40307), (151, 40352), (172, 40433),

Gene: FreddyB_55 Start: 36538, Stop: 37185, Start Num: 36
Candidate Starts for FreddyB_55:
(25, 36508), (Start: 36 @36538 has 62 MA's), (40, 36556), (Start: 42 @36577 has 1 MA's), (49, 36601), (51, 36610), (52, 36613), (60, 36649), (61, 36661), (71, 36700), (124, 36778), (129, 36805), (146, 36964), (147, 36970), (153, 37033),

Gene: Fruitloop_51 Start: 37994, Stop: 38665, Start Num: 38
Candidate Starts for Fruitloop_51:
(Start: 38 @37994 has 59 MA's), (40, 38012), (Start: 42 @38033 has 1 MA's), (47, 38054), (49, 38057), (51, 38066), (52, 38069), (60, 38105), (61, 38117), (76, 38174), (116, 38282), (124, 38336), (129, 38363), (146, 38486), (147, 38492), (163, 38576), (179, 38618),

Gene: Galactic_53 Start: 37613, Stop: 38224, Start Num: 36
Candidate Starts for Galactic_53:
(25, 37583), (Start: 36 @37613 has 62 MA's), (40, 37631), (Start: 42 @37652 has 1 MA's), (47, 37673), (49, 37676), (51, 37685), (52, 37688), (60, 37724), (61, 37736), (71, 37775), (72, 37781), (124, 37853), (129, 37880), (146, 38003), (147, 38009), (153, 38072),

Gene: Gandalph_56 Start: 37657, Stop: 38280, Start Num: 37
Candidate Starts for Gandalph_56:
(Start: 37 @37657 has 60 MA's), (40, 37675), (Start: 42 @37696 has 1 MA's), (47, 37717), (49, 37720), (51, 37729), (52, 37732), (56, 37744), (59, 37753), (60, 37768), (61, 37780), (71, 37819), (72, 37825), (76, 37837), (124, 37903), (129, 37930), (146, 38089), (147, 38095), (161, 38179), (180, 38233),

Gene: Geralt_49 Start: 35876, Stop: 36565, Start Num: 37
Candidate Starts for Geralt_49:
(22, 35846), (Start: 37 @35876 has 60 MA's), (40, 35894), (Start: 42 @35915 has 1 MA's), (47, 35936), (49, 35939), (51, 35948), (52, 35951), (56, 35963), (60, 35987), (61, 35999), (91, 36119), (124, 36191), (129, 36218), (146, 36377), (147, 36383), (151, 36428), (156, 36458), (172, 36506),

Gene: GigiOuiOui_50 Start: 36639, Stop: 37199, Start Num: 44
Candidate Starts for GigiOuiOui_50:

(Start: 44 @36639 has 2 MA's), (48, 36654), (49, 36657), (51, 36666), (52, 36669), (56, 36681), (60, 36705), (61, 36717), (75, 36735), (80, 36774), (82, 36780), (122, 36861), (125, 36867), (127, 36876), (146, 37011), (147, 37017), (151, 37062), (156, 37092), (172, 37140),

Gene: Girafales_63 Start: 39600, Stop: 40283, Start Num: 38
Candidate Starts for Girafales_63:
(Start: 17 @39549 has 1 MA's), (21, 39558), (30, 39588), (Start: 36 @39597 has 62 MA's), (Start: 38 @39600 has 59 MA's), (40, 39618), (Start: 42 @39639 has 1 MA's), (47, 39660), (49, 39663), (51, 39672), (52, 39675), (56, 39687), (60, 39711), (61, 39723), (116, 39888), (124, 39942), (129, 39969), (146, 40092), (147, 40098), (151, 40143), (172, 40224),

Gene: Girr_52 Start: 37416, Stop: 38063, Start Num: 36
Candidate Starts for Girr_52:
(25, 37386), (Start: 36 @37416 has 62 MA's), (40, 37434), (Start: 42 @37455 has 1 MA's), (47, 37476), (49, 37479), (51, 37488), (52, 37491), (56, 37503), (59, 37512), (60, 37527), (65, 37557), (71, 37578), (72, 37584), (124, 37656), (129, 37683), (146, 37842), (147, 37848), (153, 37911),

Gene: Gorge_58 Start: 38905, Stop: 39702, Start Num: 36
Candidate Starts for Gorge_58:
(Start: 36 @38905 has 62 MA's), (40, 38923), (Start: 42 @38944 has 1 MA's), (47, 38965), (49, 38968), (51, 38977), (52, 38980), (60, 39016), (61, 39028), (65, 39046), (89, 39148), (93, 39157), (96, 39163), (106, 39199), (109, 39223), (124, 39295), (129, 39322), (146, 39481), (147, 39487), (153, 39550),

Gene: Guppsters_54 Start: 36848, Stop: 37258, Start Num: 38
Candidate Starts for Guppsters_54:
(Start: 38 @36848 has 59 MA's), (40, 36866), (Start: 42 @36887 has 1 MA's), (47, 36908), (49, 36911), (51, 36920), (52, 36923), (60, 36959), (61, 36971), (146, 37070), (147, 37076), (151, 37121), (156, 37151), (166, 37181), (172, 37199),

Gene: Hades_54 Start: 37504, Stop: 38343, Start Num: 37
Candidate Starts for Hades_54:
(Start: 37 @37504 has 60 MA's), (40, 37522), (Start: 42 @37543 has 1 MA's), (47, 37564), (49, 37567), (51, 37576), (52, 37579), (56, 37591), (60, 37615), (61, 37627), (65, 37645), (71, 37666), (91, 37747), (100, 37774), (124, 37966), (129, 37993), (146, 38152), (147, 38158), (161, 38242),

Gene: Hamulus_54 Start: 38023, Stop: 38607, Start Num: 38
Candidate Starts for Hamulus_54:
(Start: 38 @38023 has 59 MA's), (40, 38041), (Start: 42 @38062 has 1 MA's), (47, 38083), (49, 38086), (51, 38095), (52, 38098), (60, 38134), (61, 38146), (101, 38269), (120, 38296), (137, 38350), (146, 38419), (147, 38425), (151, 38470), (153, 38488), (159, 38509), (171, 38551),

Gene: Harley_55 Start: 37379, Stop: 38041, Start Num: 39
Candidate Starts for Harley_55:
(Start: 39 @37379 has 21 MA's), (40, 37397), (Start: 42 @37418 has 1 MA's), (47, 37439), (49, 37442), (51, 37451), (52, 37454), (60, 37490), (61, 37502), (65, 37520), (75, 37577), (80, 37616), (82, 37622), (122, 37703), (125, 37709), (127, 37718), (146, 37853), (147, 37859), (151, 37904), (156, 37934), (172, 37982),

Gene: Hegedechwinu_53 Start: 35958, Stop: 36644, Start Num: 38
Candidate Starts for Hegedechwinu_53:
(Start: 17 @35907 has 1 MA's), (21, 35916), (30, 35946), (Start: 36 @35955 has 62 MA's), (Start: 38 @35958 has 59 MA's), (40, 35976), (Start: 42 @35988 has 1 MA's), (47, 36009), (49, 36012), (51, 36021), (52, 36024), (55, 36033), (60, 36060), (61, 36072), (65, 36090), (81, 36156), (84, 36165), (85,

36171), (96, 36207), (102, 36231), (124, 36303), (129, 36330), (137, 36384), (146, 36456), (151, 36507), (153, 36525), (159, 36546), (165, 36576), (171, 36588),

Gene: IMpilo_50 Start: 35763, Stop: 36185, Start Num: 38
Candidate Starts for IMpilo_50:
(Start: 38 @35763 has 59 MA's), (40, 35781), (Start: 42 @35802 has 1 MA's), (47, 35823), (49, 35826), (51, 35835), (52, 35838), (60, 35874), (61, 35886), (146, 35997), (147, 36003), (151, 36048), (153, 36066), (159, 36087), (165, 36117), (171, 36129),

Gene: IbOuu_53 Start: 38158, Stop: 38736, Start Num: 37
Candidate Starts for IbOuu_53:
(22, 38128), (Start: 37 @38158 has 60 MA's), (40, 38176), (Start: 42 @38197 has 1 MA's), (46, 38212), (51, 38230), (52, 38233), (60, 38269), (65, 38299), (71, 38320), (72, 38326), (124, 38398), (129, 38425), (146, 38548), (147, 38554), (151, 38599), (156, 38629), (172, 38677),

Gene: Ibhubesi_53 Start: 36972, Stop: 37550, Start Num: 39
Candidate Starts for Ibhubesi_53:
(Start: 39 @36972 has 21 MA's), (40, 36990), (Start: 42 @37011 has 1 MA's), (47, 37032), (49, 37035), (51, 37044), (52, 37047), (60, 37083), (61, 37095), (71, 37134), (72, 37140), (124, 37212), (129, 37239), (137, 37293), (146, 37362), (147, 37368), (151, 37413), (156, 37443), (172, 37491),

Gene: Inventum_48 Start: 36392, Stop: 37033, Start Num: 36
Candidate Starts for Inventum_48:
(Start: 36 @36392 has 62 MA's), (40, 36410), (47, 36452), (49, 36455), (51, 36464), (52, 36467), (56, 36479), (60, 36503), (61, 36515), (76, 36572), (116, 36680), (124, 36734), (129, 36761), (146, 36854), (147, 36860), (159, 36944), (178, 36986),

Gene: Jabbawokkie_67 Start: 38459, Stop: 39289, Start Num: 37
Candidate Starts for Jabbawokkie_67:
(Start: 37 @38459 has 60 MA's), (40, 38477), (Start: 42 @38498 has 1 MA's), (47, 38519), (49, 38522), (51, 38531), (52, 38534), (60, 38570), (61, 38582), (71, 38621), (91, 38702), (100, 38729), (124, 38921), (129, 38948), (146, 39107), (147, 39113), (149, 39134), (161, 39197), (180, 39242),

Gene: JalFarm20_65 Start: 40779, Stop: 41264, Start Num: 38
Candidate Starts for JalFarm20_65:
(Start: 38 @40779 has 59 MA's), (40, 40797), (Start: 42 @40818 has 1 MA's), (47, 40839), (49, 40842), (51, 40851), (52, 40854), (60, 40890), (61, 40902), (71, 40941), (137, 41004), (146, 41076), (151, 41127), (153, 41145), (159, 41166), (165, 41196), (171, 41208),

Gene: Jant_57 Start: 39083, Stop: 39544, Start Num: 38
Candidate Starts for Jant_57:
(Start: 38 @39083 has 59 MA's), (40, 39101), (Start: 42 @39122 has 1 MA's), (47, 39143), (49, 39146), (51, 39155), (52, 39158), (60, 39194), (61, 39206), (146, 39356), (147, 39362), (151, 39407), (153, 39425), (159, 39446), (165, 39476), (171, 39488),

Gene: Jarcob_54 Start: 37658, Stop: 38305, Start Num: 36
Candidate Starts for Jarcob_54:
(25, 37628), (Start: 36 @37658 has 62 MA's), (40, 37676), (Start: 42 @37697 has 1 MA's), (49, 37721), (51, 37730), (52, 37733), (60, 37769), (61, 37781), (71, 37820), (124, 37898), (129, 37925), (146, 38084), (147, 38090), (153, 38153),

Gene: Jennelsea_52 Start: 36337, Stop: 36990, Start Num: 36
Candidate Starts for Jennelsea_52:

(Start: 36 @36337 has 62 MA's), (40, 36355), (Start: 42 @36376 has 1 MA's), (47, 36397), (49, 36400), (51, 36409), (52, 36412), (60, 36448), (61, 36460), (124, 36583), (129, 36610), (146, 36769), (147, 36775), (153, 36838),

Gene: Jinglebell_58 Start: 39416, Stop: 40003, Start Num: 38
Candidate Starts for Jinglebell_58:
(26, 39386), (Start: 38 @39416 has 59 MA's), (40, 39434), (Start: 42 @39455 has 1 MA's), (52, 39491), (60, 39527), (61, 39539), (65, 39557), (71, 39578), (76, 39596), (124, 39662), (129, 39689), (146, 39812), (147, 39818), (178, 39956),

Gene: Job42_56 Start: 39633, Stop: 40247, Start Num: 37
Candidate Starts for Job42_56:
(Start: 37 @39633 has 60 MA's), (40, 39651), (Start: 42 @39672 has 1 MA's), (47, 39693), (49, 39696), (51, 39705), (52, 39708), (56, 39720), (59, 39729), (60, 39744), (65, 39774), (71, 39795), (72, 39801), (124, 39873), (129, 39900), (146, 40059), (147, 40065), (151, 40110), (156, 40140), (172, 40188),

Gene: JoeyJr_49 Start: 36076, Stop: 36765, Start Num: 37
Candidate Starts for JoeyJr_49:
(22, 36046), (Start: 37 @36076 has 60 MA's), (40, 36094), (Start: 42 @36115 has 1 MA's), (47, 36136), (49, 36139), (51, 36148), (52, 36151), (56, 36163), (60, 36187), (61, 36199), (91, 36319), (124, 36391), (129, 36418), (146, 36577), (147, 36583), (151, 36628), (156, 36658), (172, 36706),

Gene: Juice456_54 Start: 38793, Stop: 39401, Start Num: 42
Candidate Starts for Juice456_54:
(Start: 36 @38754 has 62 MA's), (Start: 42 @38793 has 1 MA's), (49, 38817), (51, 38826), (52, 38829), (60, 38865), (61, 38877), (71, 38916), (124, 38994), (129, 39021), (146, 39180), (147, 39186), (153, 39249),

Gene: Juniper1_51 Start: 36864, Stop: 37370, Start Num: 36
Candidate Starts for Juniper1_51:
(Start: 36 @36864 has 62 MA's), (40, 36882), (Start: 42 @36903 has 1 MA's), (47, 36924), (49, 36927), (51, 36936), (52, 36939), (56, 36951), (59, 36960), (60, 36975), (61, 36987), (72, 37032), (76, 37044), (129, 37131), (146, 37179), (159, 37269), (178, 37323),

Gene: Karhdo_51 Start: 37236, Stop: 37814, Start Num: 37
Candidate Starts for Karhdo_51:
(22, 37206), (Start: 37 @37236 has 60 MA's), (40, 37254), (Start: 42 @37275 has 1 MA's), (46, 37290), (51, 37308), (52, 37311), (60, 37347), (61, 37359), (65, 37377), (71, 37398), (124, 37476), (129, 37503), (146, 37626), (151, 37677), (156, 37707), (172, 37755),

Gene: Kenuha5_51 Start: 36362, Stop: 37102, Start Num: 36
Candidate Starts for Kenuha5_51:
(Start: 36 @36362 has 62 MA's), (40, 36380), (Start: 42 @36401 has 1 MA's), (49, 36425), (55, 36446), (60, 36473), (61, 36485), (65, 36503), (71, 36524), (72, 36530), (88, 36599), (100, 36638), (103, 36650), (111, 36698), (124, 36773), (129, 36800), (146, 36923), (147, 36929), (159, 37013), (178, 37055),

Gene: Kersh_55 Start: 39189, Stop: 39803, Start Num: 37
Candidate Starts for Kersh_55:
(22, 39159), (Start: 37 @39189 has 60 MA's), (40, 39207), (Start: 42 @39228 has 1 MA's), (47, 39249), (49, 39252), (51, 39261), (52, 39264), (56, 39276), (59, 39285), (60, 39300), (65, 39330), (71, 39351), (72, 39357), (124, 39429), (129, 39456), (146, 39615), (147, 39621), (151, 39666), (156, 39696), (172, 39744),

Gene: Kimberlium_55 Start: 39048, Stop: 39626, Start Num: 37
Candidate Starts for Kimberlium_55:
(22, 39018), (Start: 37 @39048 has 60 MA's), (40, 39066), (Start: 42 @39087 has 1 MA's), (46, 39102), (51, 39120), (52, 39123), (60, 39159), (61, 39171), (65, 39189), (71, 39210), (124, 39288), (129, 39315), (146, 39438), (151, 39489), (152, 39504), (156, 39519), (172, 39567),

Gene: KingJulian_53 Start: 36569, Stop: 37195, Start Num: 38
Candidate Starts for KingJulian_53:
(Start: 17 @36518 has 1 MA's), (21, 36527), (30, 36557), (Start: 34 @36566 has 2 MA's), (Start: 38 @36569 has 59 MA's), (40, 36587), (Start: 42 @36599 has 1 MA's), (47, 36620), (49, 36623), (51, 36632), (52, 36635), (55, 36644), (60, 36671), (61, 36683), (91, 36803), (124, 36875), (129, 36902), (146, 36995), (147, 37001), (151, 37046), (153, 37064), (156, 37079), (159, 37085),

Gene: KingMidas_53 Start: 37738, Stop: 38427, Start Num: 37
Candidate Starts for KingMidas_53:
(22, 37708), (Start: 37 @37738 has 60 MA's), (40, 37756), (Start: 42 @37777 has 1 MA's), (47, 37798), (49, 37801), (51, 37810), (52, 37813), (56, 37825), (60, 37849), (61, 37861), (91, 37981), (124, 38053), (129, 38080), (146, 38239), (147, 38245), (151, 38290), (156, 38320), (172, 38368),

Gene: Kingsley_50 Start: 36346, Stop: 36969, Start Num: 37
Candidate Starts for Kingsley_50:
(Start: 37 @36346 has 60 MA's), (40, 36364), (Start: 42 @36385 has 1 MA's), (47, 36406), (49, 36409), (51, 36418), (52, 36421), (56, 36433), (59, 36442), (60, 36457), (61, 36469), (71, 36508), (72, 36514), (76, 36526), (124, 36592), (129, 36619), (146, 36778), (147, 36784), (161, 36868), (180, 36922),

Gene: Koella_48 Start: 33588, Stop: 34235, Start Num: 36
Candidate Starts for Koella_48:
(25, 33558), (Start: 36 @33588 has 62 MA's), (40, 33606), (Start: 42 @33627 has 1 MA's), (49, 33651), (51, 33660), (52, 33663), (60, 33699), (61, 33711), (71, 33750), (124, 33828), (129, 33855), (146, 34014), (147, 34020), (153, 34083),

Gene: Krakatau_51 Start: 37074, Stop: 37757, Start Num: 38
Candidate Starts for Krakatau_51:
(Start: 38 @37074 has 59 MA's), (40, 37092), (Start: 42 @37104 has 1 MA's), (47, 37125), (49, 37128), (51, 37137), (52, 37140), (60, 37176), (61, 37188), (65, 37206), (91, 37272), (95, 37281), (98, 37287), (107, 37323), (110, 37347), (124, 37419), (129, 37446), (137, 37500), (146, 37569), (147, 37575), (151, 37620), (156, 37650), (172, 37698),

Gene: KristaRAM_56 Start: 39407, Stop: 40030, Start Num: 38
Candidate Starts for KristaRAM_56:
(Start: 17 @39356 has 1 MA's), (21, 39365), (30, 39395), (Start: 34 @39404 has 2 MA's), (Start: 38 @39407 has 59 MA's), (40, 39425), (Start: 42 @39446 has 1 MA's), (47, 39467), (49, 39470), (51, 39479), (52, 39482), (56, 39494), (60, 39518), (61, 39530), (91, 39650), (124, 39722), (129, 39749), (146, 39842), (147, 39848), (151, 39893), (156, 39923), (172, 39971),

Gene: LastJedi_48 Start: 34908, Stop: 35555, Start Num: 36
Candidate Starts for LastJedi_48:
(25, 34878), (Start: 36 @34908 has 62 MA's), (40, 34926), (Start: 42 @34947 has 1 MA's), (47, 34968), (49, 34971), (51, 34980), (52, 34983), (60, 35019), (61, 35031), (71, 35070), (124, 35148), (129, 35175), (146, 35334), (147, 35340), (153, 35403),

Gene: Leozinho_53 Start: 36989, Stop: 37636, Start Num: 36

Candidate Starts for Leozinho_53:
(25, 36959), (Start: 36 @36989 has 62 MA's), (40, 37007), (Start: 42 @37028 has 1 MA's), (47, 37049), (49, 37052), (51, 37061), (52, 37064), (56, 37076), (59, 37085), (60, 37100), (65, 37130), (71, 37151), (72, 37157), (124, 37229), (129, 37256), (146, 37415), (147, 37421), (153, 37484),

Gene: Leperchaun_46 Start: 35306, Stop: 35995, Start Num: 37
Candidate Starts for Leperchaun_46:
(22, 35276), (Start: 37 @35306 has 60 MA's), (40, 35324), (Start: 42 @35345 has 1 MA's), (47, 35366), (49, 35369), (51, 35378), (52, 35381), (56, 35393), (60, 35417), (61, 35429), (91, 35549), (124, 35621), (129, 35648), (146, 35807), (147, 35813), (151, 35858), (156, 35888), (172, 35936),

Gene: LilMoolah_52 Start: 37168, Stop: 37752, Start Num: 38
Candidate Starts for LilMoolah_52:
(Start: 38 @37168 has 59 MA's), (40, 37186), (Start: 42 @37207 has 1 MA's), (47, 37228), (49, 37231), (51, 37240), (52, 37243), (60, 37279), (61, 37291), (124, 37414), (129, 37441), (137, 37495), (146, 37564), (147, 37570), (151, 37615), (156, 37645), (172, 37693),

Gene: Lizziana_60 Start: 38661, Stop: 39308, Start Num: 36
Candidate Starts for Lizziana_60:
(25, 38631), (Start: 36 @38661 has 62 MA's), (40, 38679), (Start: 42 @38700 has 1 MA's), (49, 38724), (51, 38733), (52, 38736), (60, 38772), (61, 38784), (71, 38823), (124, 38901), (129, 38928), (146, 39087), (147, 39093), (153, 39156),

Gene: Llama_58 Start: 39414, Stop: 40001, Start Num: 38
Candidate Starts for Llama_58:
(26, 39384), (Start: 38 @39414 has 59 MA's), (40, 39432), (Start: 42 @39453 has 1 MA's), (52, 39489), (60, 39525), (61, 39537), (65, 39555), (71, 39576), (76, 39594), (124, 39660), (129, 39687), (146, 39810), (147, 39816), (178, 39954),

Gene: Llij_50 Start: 36545, Stop: 37129, Start Num: 38
Candidate Starts for Llij_50:
(Start: 38 @36545 has 59 MA's), (40, 36563), (Start: 42 @36584 has 1 MA's), (47, 36605), (49, 36608), (51, 36617), (52, 36620), (60, 36656), (61, 36668), (124, 36791), (129, 36818), (137, 36872), (146, 36941), (147, 36947), (151, 36992), (156, 37022), (172, 37070),

Gene: Lorde_54 Start: 35754, Stop: 36416, Start Num: 39
Candidate Starts for Lorde_54:
(Start: 39 @35754 has 21 MA's), (40, 35772), (Start: 42 @35793 has 1 MA's), (47, 35814), (49, 35817), (51, 35826), (52, 35829), (60, 35865), (61, 35877), (65, 35895), (67, 35916), (69, 35922), (75, 35952), (80, 35991), (82, 35997), (122, 36078), (125, 36084), (127, 36093), (146, 36228), (147, 36234), (151, 36279), (156, 36309), (172, 36357),

Gene: Lucia_53 Start: 36689, Stop: 37273, Start Num: 38
Candidate Starts for Lucia_53:
(Start: 38 @36689 has 59 MA's), (40, 36707), (Start: 42 @36728 has 1 MA's), (47, 36749), (49, 36752), (51, 36761), (52, 36764), (60, 36800), (61, 36812), (124, 36935), (129, 36962), (137, 37016), (146, 37085), (147, 37091), (151, 37136), (156, 37166), (172, 37214),

Gene: LunaBlu_56 Start: 38272, Stop: 38883, Start Num: 36
Candidate Starts for LunaBlu_56:
(25, 38242), (Start: 36 @38272 has 62 MA's), (40, 38290), (Start: 42 @38311 has 1 MA's), (47, 38332), (49, 38335), (51, 38344), (52, 38347), (60, 38383), (61, 38395), (71, 38434), (72, 38440), (124, 38512), (129, 38539), (146, 38662), (147, 38668), (153, 38731),

Gene: LunaStella_51 Start: 35924, Stop: 36715, Start Num: 5
Candidate Starts for LunaStella_51:
(1, 35873), (2, 35882), (3, 35912), (4, 35921), (Start: 5 @35924 has 3 MA's), (6, 35942), (Start: 7 @35963 has 1 MA's), (8, 35984), (9, 35987), (10, 35996), (11, 35999), (13, 36011), (14, 36035), (18, 36047), (24, 36065), (31, 36086), (32, 36092), (41, 36137), (57, 36191), (75, 36251), (80, 36290), (82, 36296), (122, 36377), (125, 36383), (127, 36392), (146, 36527), (151, 36578), (153, 36596), (156, 36608), (172, 36656),

Gene: MadMen_51 Start: 37141, Stop: 37788, Start Num: 36
Candidate Starts for MadMen_51:
(Start: 36 @37141 has 62 MA's), (40, 37159), (Start: 42 @37180 has 1 MA's), (47, 37201), (49, 37204), (51, 37213), (52, 37216), (60, 37252), (61, 37264), (65, 37282), (71, 37303), (72, 37309), (76, 37321), (124, 37381), (129, 37408), (146, 37567), (147, 37573), (153, 37636),

Gene: Madiba_51 Start: 35891, Stop: 36466, Start Num: 36
Candidate Starts for Madiba_51:
(Start: 36 @35891 has 62 MA's), (40, 35909), (Start: 42 @35930 has 1 MA's), (49, 35954), (51, 35963), (52, 35966), (60, 36002), (65, 36032), (71, 36053), (72, 36059), (124, 36131), (129, 36158), (145, 36266), (146, 36287), (147, 36293), (159, 36377), (178, 36419),

Gene: Mahavrat_51 Start: 36698, Stop: 37408, Start Num: 36
Candidate Starts for Mahavrat_51:
(Start: 36 @36698 has 62 MA's), (40, 36716), (Start: 42 @36737 has 1 MA's), (52, 36773), (56, 36785), (60, 36809), (61, 36821), (68, 36860), (70, 36878), (71, 36881), (88, 36959), (100, 36998), (103, 37010), (129, 37115), (146, 37208), (147, 37214), (151, 37259), (153, 37277), (182, 37379),

Gene: Mantra_49 Start: 36324, Stop: 36902, Start Num: 37
Candidate Starts for Mantra_49:
(22, 36294), (Start: 37 @36324 has 60 MA's), (40, 36342), (Start: 42 @36363 has 1 MA's), (46, 36378), (51, 36396), (52, 36399), (60, 36435), (61, 36447), (65, 36465), (71, 36486), (124, 36564), (129, 36591), (146, 36714), (151, 36765), (152, 36780), (156, 36795), (172, 36843),

Gene: Maravista_55 Start: 39079, Stop: 39756, Start Num: 37
Candidate Starts for Maravista_55:
(Start: 37 @39079 has 60 MA's), (40, 39097), (Start: 42 @39118 has 1 MA's), (47, 39139), (49, 39142), (51, 39151), (52, 39154), (60, 39190), (61, 39202), (65, 39220), (91, 39322), (98, 39337), (107, 39373), (118, 39397), (124, 39448), (129, 39475), (146, 39568), (147, 39574), (151, 39619), (156, 39649), (172, 39697),

Gene: Marker_54 Start: 37382, Stop: 37948, Start Num: 36
Candidate Starts for Marker_54:
(Start: 36 @37382 has 62 MA's), (40, 37400), (47, 37442), (52, 37457), (60, 37493), (61, 37505), (71, 37544), (72, 37550), (76, 37562), (124, 37628), (129, 37655), (146, 37748), (147, 37754), (151, 37799), (154, 37823), (158, 37835), (162, 37844),

Gene: Martik_54 Start: 37614, Stop: 38261, Start Num: 36
Candidate Starts for Martik_54:
(25, 37584), (Start: 36 @37614 has 62 MA's), (40, 37632), (Start: 42 @37653 has 1 MA's), (49, 37677), (51, 37686), (52, 37689), (60, 37725), (61, 37737), (71, 37776), (124, 37854), (129, 37881), (146, 38040), (147, 38046), (153, 38109),

Gene: Medindi_51 Start: 35601, Stop: 36023, Start Num: 38

Candidate Starts for Medindi_51:
(Start: 38 @35601 has 59 MA's), (40, 35619), (Start: 42 @35640 has 1 MA's), (47, 35661), (49, 35664), (51, 35673), (52, 35676), (60, 35712), (61, 35724), (146, 35835), (147, 35841), (151, 35886), (153, 35904), (159, 35925), (165, 35955), (171, 35967),

Gene: Melissauren88_51 Start: 36531, Stop: 37214, Start Num: 38
Candidate Starts for Melissauren88_51:
(Start: 38 @36531 has 59 MA's), (40, 36549), (Start: 42 @36570 has 1 MA's), (47, 36591), (49, 36594), (51, 36603), (52, 36606), (60, 36642), (61, 36654), (76, 36711), (116, 36819), (124, 36873), (129, 36900), (137, 36954), (146, 37026), (151, 37077), (153, 37095), (159, 37116), (165, 37146), (171, 37158),

Gene: MilanaBonita_44 Start: 33238, Stop: 33918, Start Num: 38
Candidate Starts for MilanaBonita_44:
(Start: 38 @33238 has 59 MA's), (40, 33256), (Start: 42 @33277 has 1 MA's), (47, 33298), (49, 33301), (51, 33310), (52, 33313), (60, 33349), (61, 33361), (76, 33418), (116, 33526), (124, 33580), (129, 33607), (137, 33661), (146, 33730), (147, 33736), (151, 33781), (156, 33811), (172, 33859),

Gene: MilleniumForce_57 Start: 39630, Stop: 40112, Start Num: 38
Candidate Starts for MilleniumForce_57:
(Start: 38 @39630 has 59 MA's), (40, 39648), (Start: 42 @39669 has 1 MA's), (47, 39690), (49, 39693), (51, 39702), (52, 39705), (60, 39741), (61, 39753), (71, 39792), (137, 39855), (146, 39924), (147, 39930), (151, 39975), (156, 40005), (172, 40053),

Gene: MinionDave_52 Start: 37068, Stop: 37781, Start Num: 37
Candidate Starts for MinionDave_52:
(Start: 37 @37068 has 60 MA's), (40, 37086), (Start: 42 @37107 has 1 MA's), (47, 37128), (49, 37131), (51, 37140), (52, 37143), (60, 37179), (61, 37191), (83, 37278), (92, 37314), (100, 37338), (124, 37410), (129, 37437), (142, 37518), (146, 37593), (147, 37599), (149, 37620), (151, 37644), (156, 37674), (172, 37722),

Gene: Minnie_58 Start: 39392, Stop: 40183, Start Num: 5
Candidate Starts for Minnie_58:
(Start: 5 @39392 has 3 MA's), (6, 39410), (Start: 7 @39431 has 1 MA's), (8, 39452), (9, 39455), (10, 39464), (11, 39467), (13, 39479), (14, 39503), (18, 39515), (24, 39533), (31, 39554), (32, 39560), (41, 39605), (57, 39659), (75, 39719), (80, 39758), (82, 39764), (122, 39845), (125, 39851), (127, 39860), (146, 39995), (147, 40001), (151, 40046), (156, 40076), (172, 40124),

Gene: MisterCuddles_52 Start: 37416, Stop: 38063, Start Num: 36
Candidate Starts for MisterCuddles_52:
(25, 37386), (Start: 36 @37416 has 62 MA's), (40, 37434), (Start: 42 @37455 has 1 MA's), (47, 37476), (49, 37479), (51, 37488), (52, 37491), (56, 37503), (59, 37512), (60, 37527), (65, 37557), (71, 37578), (72, 37584), (124, 37656), (129, 37683), (146, 37842), (147, 37848), (153, 37911),

Gene: Modragons_57 Start: 39260, Stop: 39847, Start Num: 38
Candidate Starts for Modragons_57:
(26, 39230), (Start: 38 @39260 has 59 MA's), (40, 39278), (Start: 42 @39299 has 1 MA's), (52, 39335), (60, 39371), (61, 39383), (65, 39401), (71, 39422), (76, 39440), (124, 39506), (129, 39533), (146, 39656), (147, 39662), (178, 39800),

Gene: MooMoo_51 Start: 36852, Stop: 37634, Start Num: 39
Candidate Starts for MooMoo_51:

(Start: 39 @36852 has 21 MA's), (40, 36870), (45, 36903), (54, 36951), (61, 36990), (63, 36999), (77, 37038), (114, 37140), (123, 37239), (136, 37332), (139, 37341), (143, 37386), (146, 37443), (147, 37449), (148, 37461), (151, 37494), (170, 37578),

Gene: Moonbeam_49 Start: 36588, Stop: 37172, Start Num: 38
Candidate Starts for Moonbeam_49:
(Start: 38 @36588 has 59 MA's), (40, 36606), (Start: 42 @36627 has 1 MA's), (47, 36648), (49, 36651), (51, 36660), (52, 36663), (60, 36699), (61, 36711), (65, 36729), (101, 36834), (120, 36861), (137, 36915), (146, 36984), (147, 36990), (151, 37035), (153, 37053), (159, 37074), (165, 37104), (171, 37116),

Gene: Mova_54 Start: 36914, Stop: 37537, Start Num: 37
Candidate Starts for Mova_54:
(Start: 37 @36914 has 60 MA's), (40, 36932), (Start: 42 @36953 has 1 MA's), (47, 36974), (49, 36977), (51, 36986), (52, 36989), (56, 37001), (59, 37010), (60, 37025), (61, 37037), (71, 37076), (72, 37082), (76, 37094), (124, 37160), (129, 37187), (146, 37346), (147, 37352), (161, 37436), (180, 37490),

Gene: Mozy_63 Start: 40170, Stop: 40844, Start Num: 36
Candidate Starts for Mozy_63:
(20, 40128), (Start: 36 @40170 has 62 MA's), (40, 40188), (47, 40230), (52, 40245), (66, 40320), (73, 40359), (76, 40371), (87, 40428), (129, 40533), (137, 40584), (146, 40656), (147, 40662), (151, 40707), (156, 40737), (172, 40785),

Gene: Ms6_48 Start: 32289, Stop: 32969, Start Num: 38
Candidate Starts for Ms6_48:
(Start: 38 @32289 has 59 MA's), (40, 32307), (Start: 42 @32328 has 1 MA's), (47, 32349), (49, 32352), (51, 32361), (52, 32364), (60, 32400), (61, 32412), (65, 32430), (76, 32469), (116, 32577), (124, 32631), (129, 32658), (137, 32712), (146, 32781), (147, 32787), (151, 32832), (153, 32850), (159, 32871), (165, 32901), (171, 32913),

Gene: MulchExplorer_55 Start: 39047, Stop: 39625, Start Num: 37
Candidate Starts for MulchExplorer_55:
(22, 39017), (Start: 37 @39047 has 60 MA's), (40, 39065), (Start: 42 @39086 has 1 MA's), (46, 39101), (51, 39119), (52, 39122), (60, 39158), (61, 39170), (65, 39188), (71, 39209), (124, 39287), (129, 39314), (146, 39437), (151, 39488), (152, 39503), (156, 39518), (172, 39566),

Gene: Mutaforma13_57 Start: 39642, Stop: 40256, Start Num: 38
Candidate Starts for Mutaforma13_57:
(Start: 17 @39591 has 1 MA's), (21, 39600), (30, 39630), (Start: 34 @39639 has 2 MA's), (Start: 38 @39642 has 59 MA's), (40, 39660), (51, 39714), (52, 39717), (56, 39729), (60, 39753), (61, 39765), (129, 39909), (146, 40068), (147, 40074), (151, 40119), (156, 40149), (166, 40179), (172, 40197),

Gene: Mwanjiwa_59 Start: 38024, Stop: 38641, Start Num: 36
Candidate Starts for Mwanjiwa_59:
(Start: 36 @38024 has 62 MA's), (40, 38042), (Start: 42 @38063 has 1 MA's), (47, 38084), (49, 38087), (51, 38096), (52, 38099), (60, 38135), (61, 38147), (71, 38186), (72, 38192), (124, 38264), (129, 38291), (143, 38396), (146, 38450), (147, 38456), (159, 38540), (178, 38594),

Gene: NewHope4_55 Start: 37643, Stop: 38254, Start Num: 36
Candidate Starts for NewHope4_55:
(25, 37613), (Start: 36 @37643 has 62 MA's), (40, 37661), (Start: 42 @37682 has 1 MA's), (47, 37703), (49, 37706), (51, 37715), (52, 37718), (60, 37754), (61, 37766), (71, 37805), (72, 37811), (124, 37883), (129, 37910), (146, 38033), (147, 38039), (153, 38102),

Gene: Nichirin_57 Start: 38943, Stop: 39521, Start Num: 36
Candidate Starts for Nichirin_57:
(12, 38856), (Start: 36 @38943 has 62 MA's), (40, 38961), (Start: 42 @38982 has 1 MA's), (49, 39006), (55, 39027), (60, 39054), (72, 39111), (129, 39210), (146, 39330), (147, 39336), (178, 39474),

Gene: Nimbo_48 Start: 35879, Stop: 36568, Start Num: 37
Candidate Starts for Nimbo_48:
(22, 35849), (Start: 37 @35879 has 60 MA's), (40, 35897), (Start: 42 @35918 has 1 MA's), (47, 35939), (49, 35942), (51, 35951), (52, 35954), (56, 35966), (60, 35990), (61, 36002), (91, 36122), (124, 36194), (129, 36221), (146, 36380), (147, 36386), (151, 36431), (156, 36461), (172, 36509),

Gene: Nitzel_50 Start: 36307, Stop: 37011, Start Num: 38
Candidate Starts for Nitzel_50:
(Start: 38 @36307 has 59 MA's), (40, 36325), (Start: 42 @36346 has 1 MA's), (49, 36370), (55, 36391), (60, 36418), (61, 36430), (76, 36487), (116, 36595), (124, 36649), (129, 36676), (145, 36784), (146, 36805), (147, 36811), (151, 36856), (153, 36874), (177, 36961), (182, 36982),

Gene: Nivrat_50 Start: 37041, Stop: 37625, Start Num: 38
Candidate Starts for Nivrat_50:
(Start: 38 @37041 has 59 MA's), (40, 37059), (Start: 42 @37080 has 1 MA's), (47, 37101), (49, 37104), (51, 37113), (52, 37116), (60, 37152), (61, 37164), (124, 37287), (129, 37314), (137, 37368), (146, 37437), (147, 37443), (151, 37488), (156, 37518), (172, 37566),

Gene: NormanBulbieJr_54 Start: 37601, Stop: 38248, Start Num: 36
Candidate Starts for NormanBulbieJr_54:
(25, 37571), (Start: 36 @37601 has 62 MA's), (40, 37619), (Start: 42 @37640 has 1 MA's), (49, 37664), (51, 37673), (52, 37676), (60, 37712), (61, 37724), (71, 37763), (124, 37841), (129, 37868), (146, 38027), (147, 38033), (153, 38096),

Gene: Ochi17_56 Start: 38867, Stop: 39454, Start Num: 38
Candidate Starts for Ochi17_56:
(26, 38837), (Start: 38 @38867 has 59 MA's), (40, 38885), (Start: 42 @38906 has 1 MA's), (52, 38942), (60, 38978), (61, 38990), (65, 39008), (71, 39029), (76, 39047), (124, 39113), (129, 39140), (146, 39263), (147, 39269), (178, 39407),

Gene: OfUltron_58 Start: 39416, Stop: 40003, Start Num: 38
Candidate Starts for OfUltron_58:
(26, 39386), (Start: 38 @39416 has 59 MA's), (40, 39434), (Start: 42 @39455 has 1 MA's), (52, 39491), (60, 39527), (61, 39539), (65, 39557), (71, 39578), (76, 39596), (124, 39662), (129, 39689), (146, 39812), (147, 39818), (178, 39956),

Gene: Ogopogo_58 Start: 38167, Stop: 38712, Start Num: 36
Candidate Starts for Ogopogo_58:
(Start: 36 @38167 has 62 MA's), (40, 38185), (Start: 42 @38206 has 1 MA's), (49, 38230), (55, 38251), (60, 38278), (61, 38290), (71, 38329), (76, 38347), (124, 38413), (129, 38440), (146, 38533), (147, 38539), (159, 38623), (178, 38665),

Gene: Okabe_48 Start: 33507, Stop: 34151, Start Num: 38
Candidate Starts for Okabe_48:
(Start: 38 @33507 has 59 MA's), (40, 33525), (Start: 42 @33546 has 1 MA's), (47, 33567), (49, 33570), (51, 33579), (52, 33582), (60, 33618), (61, 33630), (90, 33741), (130, 33840), (133, 33867), (146, 33963), (147, 33969), (151, 34014), (153, 34032), (159, 34053), (165, 34083), (171, 34095),

Gene: Oksu_59 Start: 39625, Stop: 40206, Start Num: 36
Candidate Starts for Oksu_59:
(12, 39538), (Start: 36 @39625 has 62 MA's), (40, 39643), (Start: 42 @39664 has 1 MA's), (49, 39688), (55, 39709), (60, 39736), (72, 39793), (129, 39892), (146, 40015), (147, 40021), (178, 40159),

Gene: OldBen_51 Start: 37594, Stop: 38172, Start Num: 37
Candidate Starts for OldBen_51:
(22, 37564), (Start: 37 @37594 has 60 MA's), (40, 37612), (47, 37654), (49, 37657), (51, 37666), (52, 37669), (59, 37690), (60, 37705), (61, 37717), (65, 37735), (71, 37756), (72, 37762), (124, 37834), (129, 37861), (137, 37915), (146, 37984), (147, 37990), (151, 38035), (156, 38065), (166, 38095), (172, 38113),

Gene: Ovechkin_50 Start: 36858, Stop: 37478, Start Num: 36
Candidate Starts for Ovechkin_50:
(Start: 17 @36810 has 1 MA's), (21, 36819), (30, 36849), (Start: 36 @36858 has 62 MA's), (Start: 38 @36861 has 59 MA's), (40, 36879), (Start: 42 @36900 has 1 MA's), (47, 36921), (49, 36924), (51, 36933), (52, 36936), (60, 36972), (61, 36984), (65, 37002), (85, 37071), (96, 37107), (102, 37131), (124, 37203), (129, 37230), (137, 37281), (146, 37350), (147, 37356), (150, 37392),

Gene: OwlsT2W_54 Start: 37885, Stop: 38490, Start Num: 39
Candidate Starts for OwlsT2W_54:
(Start: 39 @37885 has 21 MA's), (40, 37903), (Start: 42 @37924 has 1 MA's), (47, 37945), (49, 37948), (51, 37957), (52, 37960), (56, 37972), (60, 37996), (61, 38008), (75, 38026), (80, 38065), (82, 38071), (122, 38152), (125, 38158), (127, 38167), (146, 38302), (147, 38308), (151, 38353), (156, 38383), (172, 38431),

Gene: PHappiness_49 Start: 35852, Stop: 36541, Start Num: 37
Candidate Starts for PHappiness_49:
(22, 35822), (Start: 37 @35852 has 60 MA's), (40, 35870), (Start: 42 @35891 has 1 MA's), (47, 35912), (49, 35915), (51, 35924), (52, 35927), (56, 35939), (60, 35963), (61, 35975), (91, 36095), (124, 36167), (129, 36194), (146, 36353), (147, 36359), (151, 36404), (156, 36434), (172, 36482),

Gene: PMC_50 Start: 37468, Stop: 38091, Start Num: 37
Candidate Starts for PMC_50:
(Start: 37 @37468 has 60 MA's), (40, 37486), (Start: 42 @37507 has 1 MA's), (47, 37528), (49, 37531), (51, 37540), (52, 37543), (56, 37555), (59, 37564), (60, 37579), (61, 37591), (71, 37630), (72, 37636), (76, 37648), (124, 37714), (129, 37741), (146, 37900), (147, 37906), (161, 37990), (180, 38044),

Gene: Pacc40_48 Start: 35926, Stop: 36615, Start Num: 37
Candidate Starts for Pacc40_48:
(22, 35896), (Start: 37 @35926 has 60 MA's), (40, 35944), (Start: 42 @35965 has 1 MA's), (47, 35986), (49, 35989), (51, 35998), (52, 36001), (56, 36013), (60, 36037), (61, 36049), (91, 36169), (124, 36241), (129, 36268), (146, 36427), (147, 36433), (151, 36478), (156, 36508), (172, 36556),

Gene: PatoPoderoso_50 Start: 36527, Stop: 37195, Start Num: 21
Candidate Starts for PatoPoderoso_50:
(Start: 17 @36518 has 1 MA's), (21, 36527), (30, 36557), (Start: 34 @36566 has 2 MA's), (Start: 38 @36569 has 59 MA's), (40, 36587), (Start: 42 @36599 has 1 MA's), (47, 36620), (49, 36623), (51, 36632), (52, 36635), (55, 36644), (60, 36671), (61, 36683), (91, 36803), (124, 36875), (129, 36902), (146, 36995), (147, 37001), (151, 37046), (153, 37064), (156, 37079), (159, 37085),

Gene: Peridot_52 Start: 37128, Stop: 37712, Start Num: 38

Candidate Starts for Peridot_52:
(27, 37098), (Start: 38 @37128 has 59 MA's), (40, 37146), (Start: 42 @37167 has 1 MA's), (47, 37188), (49, 37191), (51, 37200), (52, 37203), (60, 37239), (61, 37251), (124, 37374), (129, 37401), (137, 37455), (146, 37524), (147, 37530), (151, 37575), (156, 37605), (172, 37653),

Gene: Phalconet_52 Start: 36835, Stop: 37287, Start Num: 38
Candidate Starts for Phalconet_52:
(Start: 38 @36835 has 59 MA's), (40, 36853), (Start: 42 @36865 has 1 MA's), (47, 36886), (49, 36889), (51, 36898), (52, 36901), (55, 36910), (60, 36937), (61, 36949), (146, 37099), (147, 37105), (151, 37150), (156, 37180), (172, 37228),

Gene: Phasih_52 Start: 37932, Stop: 38681, Start Num: 36
Candidate Starts for Phasih_52:
(Start: 36 @37932 has 62 MA's), (40, 37950), (Start: 42 @37971 has 1 MA's), (47, 37992), (49, 37995), (51, 38004), (52, 38007), (59, 38028), (60, 38043), (65, 38073), (71, 38094), (72, 38100), (88, 38169), (100, 38208), (103, 38220), (111, 38268), (124, 38343), (129, 38370), (146, 38493), (147, 38499), (148, 38511), (151, 38544), (153, 38562), (159, 38583),

Gene: Phatniss_52 Start: 37640, Stop: 38224, Start Num: 38
Candidate Starts for Phatniss_52:
(Start: 38 @37640 has 59 MA's), (40, 37658), (Start: 42 @37679 has 1 MA's), (47, 37700), (49, 37703), (51, 37712), (52, 37715), (60, 37751), (61, 37763), (124, 37886), (129, 37913), (137, 37967), (146, 38036), (147, 38042), (151, 38087), (156, 38117), (172, 38165),

Gene: PhesterPhotato_55 Start: 37823, Stop: 38284, Start Num: 38
Candidate Starts for PhesterPhotato_55:
(Start: 38 @37823 has 59 MA's), (40, 37841), (Start: 42 @37862 has 1 MA's), (47, 37883), (49, 37886), (51, 37895), (52, 37898), (60, 37934), (61, 37946), (146, 38096), (147, 38102), (151, 38147), (156, 38177), (172, 38225),

Gene: Philus_57 Start: 38793, Stop: 39410, Start Num: 39
Candidate Starts for Philus_57:
(Start: 39 @38793 has 21 MA's), (40, 38811), (Start: 42 @38832 has 1 MA's), (47, 38853), (49, 38856), (51, 38865), (52, 38868), (56, 38880), (60, 38904), (61, 38916), (75, 38934), (80, 38973), (82, 38979), (122, 39060), (125, 39066), (127, 39075), (146, 39210), (147, 39216), (151, 39261), (153, 39279), (156, 39294), (159, 39300),

Gene: PhlipPhlop_53 Start: 38629, Stop: 39168, Start Num: 36
Candidate Starts for PhlipPhlop_53:
(Start: 36 @38629 has 62 MA's), (40, 38647), (Start: 42 @38668 has 1 MA's), (47, 38689), (49, 38692), (51, 38701), (52, 38704), (56, 38716), (60, 38740), (61, 38752), (71, 38791), (72, 38797), (76, 38809), (124, 38869), (129, 38896), (146, 38989), (147, 38995), (159, 39079), (178, 39121),

Gene: Pippy_52 Start: 36472, Stop: 37119, Start Num: 36
Candidate Starts for Pippy_52:
(25, 36442), (Start: 36 @36472 has 62 MA's), (40, 36490), (Start: 42 @36511 has 1 MA's), (47, 36532), (49, 36535), (51, 36544), (52, 36547), (60, 36583), (61, 36595), (71, 36634), (124, 36712), (129, 36739), (146, 36898), (147, 36904), (153, 36967),

Gene: Plumbus_55 Start: 37701, Stop: 38279, Start Num: 37
Candidate Starts for Plumbus_55:
(22, 37671), (Start: 37 @37701 has 60 MA's), (40, 37719), (Start: 42 @37740 has 1 MA's), (46, 37755), (51, 37773), (52, 37776), (60, 37812), (61, 37824), (65, 37842), (71, 37863), (124, 37941), (129,

37968), (146, 38091), (151, 38142), (152, 38157), (156, 38172), (172, 38220),

Gene: Poenanya_53 Start: 38418, Stop: 39137, Start Num: 34
Candidate Starts for Poenanya_53:
(Start: 34 @38418 has 2 MA's), (40, 38436), (Start: 42 @38457 has 1 MA's), (47, 38478), (49, 38481), (51, 38490), (52, 38493), (60, 38529), (61, 38541), (65, 38559), (71, 38580), (72, 38586), (88, 38655), (100, 38694), (103, 38706), (111, 38754), (124, 38829), (129, 38856), (146, 38949), (147, 38955), (151, 39000), (156, 39030), (172, 39078),

Gene: Polka14_52 Start: 37024, Stop: 37638, Start Num: 38
Candidate Starts for Polka14_52:
(Start: 38 @37024 has 59 MA's), (40, 37042), (Start: 42 @37063 has 1 MA's), (47, 37084), (49, 37087), (51, 37096), (52, 37099), (60, 37135), (65, 37165), (71, 37186), (72, 37192), (76, 37204), (124, 37264), (129, 37291), (146, 37450), (147, 37456), (151, 37501), (156, 37531), (172, 37579),

Gene: Pollywog_54 Start: 38085, Stop: 38915, Start Num: 37
Candidate Starts for Pollywog_54:
(22, 38055), (Start: 37 @38085 has 60 MA's), (40, 38103), (Start: 42 @38124 has 1 MA's), (47, 38145), (49, 38148), (51, 38157), (52, 38160), (60, 38196), (61, 38208), (91, 38328), (100, 38355), (124, 38547), (129, 38574), (146, 38733), (147, 38739), (151, 38784), (153, 38802), (180, 38868), (181, 38883),

Gene: Polo2Bam_59 Start: 37497, Stop: 38108, Start Num: 36
Candidate Starts for Polo2Bam_59:
(25, 37467), (Start: 36 @37497 has 62 MA's), (40, 37515), (Start: 42 @37536 has 1 MA's), (47, 37557), (49, 37560), (51, 37569), (52, 37572), (60, 37608), (61, 37620), (71, 37659), (72, 37665), (124, 37737), (129, 37764), (146, 37887), (147, 37893), (153, 37956),

Gene: PopTart_47 Start: 36238, Stop: 36744, Start Num: 35
Candidate Starts for PopTart_47:
(24, 36208), (Start: 35 @36238 has 2 MA's), (40, 36256), (Start: 42 @36277 has 1 MA's), (47, 36298), (52, 36313), (56, 36325), (60, 36349), (61, 36361), (71, 36400), (72, 36406), (129, 36505), (146, 36553), (159, 36643), (178, 36697),

Gene: Priscilla_54 Start: 37700, Stop: 38347, Start Num: 36
Candidate Starts for Priscilla_54:
(25, 37670), (Start: 36 @37700 has 62 MA's), (40, 37718), (Start: 42 @37739 has 1 MA's), (49, 37763), (51, 37772), (52, 37775), (60, 37811), (61, 37823), (71, 37862), (124, 37940), (129, 37967), (146, 38126), (147, 38132), (153, 38195),

Gene: QuickMath_54 Start: 39271, Stop: 39849, Start Num: 37
Candidate Starts for QuickMath_54:
(22, 39241), (Start: 37 @39271 has 60 MA's), (40, 39289), (Start: 42 @39310 has 1 MA's), (46, 39325), (51, 39343), (52, 39346), (60, 39382), (61, 39394), (65, 39412), (71, 39433), (124, 39511), (129, 39538), (146, 39661), (151, 39712), (152, 39727), (156, 39742), (172, 39790),

Gene: Quico_62 Start: 39707, Stop: 40312, Start Num: 37
Candidate Starts for Quico_62:
(22, 39677), (Start: 37 @39707 has 60 MA's), (40, 39725), (Start: 42 @39746 has 1 MA's), (47, 39767), (49, 39770), (51, 39779), (52, 39782), (56, 39794), (59, 39803), (60, 39818), (61, 39830), (71, 39869), (72, 39875), (129, 39974), (146, 40121), (147, 40127), (151, 40172), (172, 40253),

Gene: Radiance_53 Start: 37766, Stop: 38371, Start Num: 39

Candidate Starts for Radiance_53:
(28, 37736), (Start: 39 @37766 has 21 MA's), (40, 37784), (Start: 42 @37805 has 1 MA's), (46, 37820), (51, 37838), (52, 37841), (56, 37853), (60, 37877), (61, 37889), (75, 37907), (80, 37946), (82, 37952), (122, 38033), (125, 38039), (127, 38048), (146, 38183), (147, 38189), (151, 38234), (156, 38264), (172, 38312),

Gene: Ramsey_54 Start: 38423, Stop: 39037, Start Num: 37
Candidate Starts for Ramsey_54:
(22, 38393), (Start: 37 @38423 has 60 MA's), (40, 38441), (Start: 42 @38462 has 1 MA's), (47, 38483), (49, 38486), (51, 38495), (52, 38498), (56, 38510), (59, 38519), (60, 38534), (65, 38564), (71, 38585), (72, 38591), (124, 38663), (129, 38690), (146, 38849), (147, 38855), (151, 38900), (156, 38930), (172, 38978),

Gene: Renaud18_59 Start: 38442, Stop: 38924, Start Num: 38
Candidate Starts for Renaud18_59:
(Start: 38 @38442 has 59 MA's), (40, 38460), (Start: 42 @38481 has 1 MA's), (47, 38502), (49, 38505), (51, 38514), (52, 38517), (60, 38553), (61, 38565), (71, 38604), (137, 38667), (146, 38736), (147, 38742), (151, 38787), (156, 38817), (172, 38865),

Gene: RitaG_49 Start: 36197, Stop: 36886, Start Num: 37
Candidate Starts for RitaG_49:
(22, 36167), (Start: 37 @36197 has 60 MA's), (40, 36215), (Start: 42 @36236 has 1 MA's), (47, 36257), (49, 36260), (51, 36269), (52, 36272), (56, 36284), (60, 36308), (61, 36320), (91, 36440), (124, 36512), (129, 36539), (146, 36698), (147, 36704), (151, 36749), (156, 36779), (172, 36827),

Gene: Rockne_54 Start: 37468, Stop: 38091, Start Num: 37
Candidate Starts for Rockne_54:
(Start: 37 @37468 has 60 MA's), (40, 37486), (Start: 42 @37507 has 1 MA's), (47, 37528), (49, 37531), (51, 37540), (52, 37543), (56, 37555), (59, 37564), (60, 37579), (61, 37591), (71, 37630), (72, 37636), (76, 37648), (124, 37714), (129, 37741), (146, 37900), (147, 37906), (161, 37990), (180, 38044),

Gene: RockyHorror_54 Start: 37296, Stop: 37757, Start Num: 38
Candidate Starts for RockyHorror_54:
(Start: 38 @37296 has 59 MA's), (40, 37314), (Start: 42 @37335 has 1 MA's), (47, 37356), (49, 37359), (51, 37368), (52, 37371), (60, 37407), (61, 37419), (146, 37569), (147, 37575), (151, 37620), (156, 37650), (172, 37698),

Gene: Royals2015_56 Start: 37542, Stop: 38093, Start Num: 36
Candidate Starts for Royals2015_56:
(Start: 36 @37542 has 62 MA's), (40, 37560), (Start: 42 @37581 has 1 MA's), (49, 37605), (51, 37614), (52, 37617), (60, 37653), (61, 37665), (71, 37704), (72, 37710), (124, 37782), (129, 37809), (146, 37902), (147, 37908), (159, 37992),

Gene: Ruby_50 Start: 37417, Stop: 38064, Start Num: 36
Candidate Starts for Ruby_50:
(25, 37387), (Start: 36 @37417 has 62 MA's), (40, 37435), (Start: 42 @37456 has 1 MA's), (47, 37477), (49, 37480), (51, 37489), (52, 37492), (56, 37504), (59, 37513), (60, 37528), (65, 37558), (71, 37579), (72, 37585), (124, 37657), (129, 37684), (146, 37843), (147, 37849), (153, 37912),

Gene: SG4_50 Start: 36264, Stop: 36926, Start Num: 39
Candidate Starts for SG4_50:
(Start: 39 @36264 has 21 MA's), (40, 36282), (Start: 42 @36303 has 1 MA's), (47, 36324), (49, 36327), (51, 36336), (52, 36339), (60, 36375), (61, 36387), (65, 36405), (67, 36426), (69, 36432), (75, 36462),

(80, 36501), (82, 36507), (122, 36588), (125, 36594), (127, 36603), (146, 36738), (147, 36744), (151, 36789), (156, 36819), (166, 36849), (172, 36867),

Gene: Saal_56 Start: 38724, Stop: 39521, Start Num: 36
Candidate Starts for Saal_56:
(Start: 36 @38724 has 62 MA's), (40, 38742), (Start: 42 @38763 has 1 MA's), (47, 38784), (49, 38787), (51, 38796), (52, 38799), (60, 38835), (61, 38847), (65, 38865), (89, 38967), (93, 38976), (96, 38982), (106, 39018), (109, 39042), (124, 39114), (129, 39141), (146, 39300), (147, 39306), (153, 39369),

Gene: Sabbb_58 Start: 38465, Stop: 39208, Start Num: 37
Candidate Starts for Sabbb_58:
(22, 38435), (Start: 37 @38465 has 60 MA's), (40, 38483), (Start: 42 @38504 has 1 MA's), (47, 38525), (49, 38528), (51, 38537), (52, 38540), (60, 38576), (61, 38588), (65, 38606), (91, 38708), (98, 38723), (107, 38759), (118, 38783), (124, 38834), (129, 38861), (146, 39020), (147, 39026), (151, 39071), (156, 39101), (166, 39131), (172, 39149),

Gene: Sandalphon_55 Start: 38373, Stop: 38978, Start Num: 39
Candidate Starts for Sandalphon_55:
(28, 38343), (Start: 39 @38373 has 21 MA's), (40, 38391), (Start: 42 @38412 has 1 MA's), (47, 38433), (49, 38436), (51, 38445), (52, 38448), (56, 38460), (60, 38484), (61, 38496), (75, 38514), (80, 38553), (82, 38559), (122, 38640), (125, 38646), (127, 38655), (146, 38790), (147, 38796), (151, 38841), (156, 38871), (172, 38919),

Gene: Sarma624_51 Start: 33538, Stop: 34161, Start Num: 37
Candidate Starts for Sarma624_51:
(Start: 37 @33538 has 60 MA's), (40, 33556), (Start: 42 @33577 has 1 MA's), (47, 33598), (49, 33601), (51, 33610), (52, 33613), (56, 33625), (59, 33634), (60, 33649), (61, 33661), (71, 33700), (72, 33706), (76, 33718), (124, 33784), (129, 33811), (146, 33970), (147, 33976), (161, 34060), (180, 34114),

Gene: Sassafras_51 Start: 36391, Stop: 37032, Start Num: 36
Candidate Starts for Sassafras_51:
(Start: 36 @36391 has 62 MA's), (40, 36409), (47, 36451), (49, 36454), (51, 36463), (52, 36466), (56, 36478), (60, 36502), (61, 36514), (76, 36571), (116, 36679), (124, 36733), (129, 36760), (146, 36853), (147, 36859), (159, 36943), (178, 36985),

Gene: SassyB_47 Start: 36238, Stop: 36744, Start Num: 35
Candidate Starts for SassyB_47:
(24, 36208), (Start: 35 @36238 has 2 MA's), (40, 36256), (Start: 42 @36277 has 1 MA's), (47, 36298), (52, 36313), (56, 36325), (60, 36349), (61, 36361), (71, 36400), (72, 36406), (129, 36505), (146, 36553), (159, 36643), (178, 36697),

Gene: Scottish_52 Start: 37209, Stop: 37898, Start Num: 37
Candidate Starts for Scottish_52:
(22, 37179), (Start: 37 @37209 has 60 MA's), (40, 37227), (Start: 42 @37248 has 1 MA's), (47, 37269), (49, 37272), (51, 37281), (52, 37284), (56, 37296), (60, 37320), (61, 37332), (91, 37452), (124, 37524), (129, 37551), (146, 37710), (147, 37716), (151, 37761), (156, 37791), (172, 37839),

Gene: SeaLumen_58 Start: 37497, Stop: 38108, Start Num: 36
Candidate Starts for SeaLumen_58:
(25, 37467), (Start: 36 @37497 has 62 MA's), (40, 37515), (Start: 42 @37536 has 1 MA's), (47, 37557), (49, 37560), (51, 37569), (52, 37572), (60, 37608), (61, 37620), (71, 37659), (72, 37665), (124, 37737), (129, 37764), (146, 37887), (147, 37893), (153, 37956),

Gene: Seabastian_58 Start: 39417, Stop: 40004, Start Num: 38
Candidate Starts for Seabastian_58:
(26, 39387), (Start: 38 @39417 has 59 MA's), (40, 39435), (Start: 42 @39456 has 1 MA's), (52, 39492), (60, 39528), (61, 39540), (65, 39558), (71, 39579), (76, 39597), (124, 39663), (129, 39690), (146, 39813), (147, 39819), (178, 39957),

Gene: Seagreen_53 Start: 36966, Stop: 37559, Start Num: 36
Candidate Starts for Seagreen_53:
(25, 36936), (Start: 36 @36966 has 62 MA's), (40, 36984), (Start: 42 @37005 has 1 MA's), (47, 37026), (49, 37029), (51, 37038), (52, 37041), (60, 37077), (61, 37089), (71, 37128), (72, 37134), (124, 37206), (129, 37233), (146, 37356), (147, 37362), (151, 37407), (153, 37425), (156, 37440), (159, 37446), (165, 37476), (181, 37527), (182, 37530),

Gene: ShiLan_53 Start: 37647, Stop: 38294, Start Num: 36
Candidate Starts for ShiLan_53:
(25, 37617), (Start: 36 @37647 has 62 MA's), (40, 37665), (Start: 42 @37686 has 1 MA's), (49, 37710), (51, 37719), (52, 37722), (60, 37758), (61, 37770), (71, 37809), (124, 37887), (129, 37914), (146, 38073), (147, 38079), (153, 38142),

Gene: ShowerHandel_57 Start: 37614, Stop: 38261, Start Num: 36
Candidate Starts for ShowerHandel_57:
(25, 37584), (Start: 36 @37614 has 62 MA's), (40, 37632), (Start: 42 @37653 has 1 MA's), (49, 37677), (51, 37686), (52, 37689), (60, 37725), (61, 37737), (71, 37776), (124, 37854), (129, 37881), (146, 38040), (147, 38046), (153, 38109),

Gene: ShroomBoi_55 Start: 37834, Stop: 38421, Start Num: 38
Candidate Starts for ShroomBoi_55:
(23, 37804), (Start: 38 @37834 has 59 MA's), (40, 37852), (Start: 42 @37873 has 1 MA's), (46, 37888), (51, 37906), (52, 37909), (60, 37945), (61, 37957), (65, 37975), (126, 38077), (128, 38092), (134, 38128), (138, 38152), (140, 38164), (146, 38233), (147, 38239), (151, 38284), (156, 38314), (172, 38362),

Gene: SiSi_51 Start: 36788, Stop: 37366, Start Num: 37
Candidate Starts for SiSi_51:
(22, 36758), (Start: 37 @36788 has 60 MA's), (40, 36806), (Start: 42 @36827 has 1 MA's), (46, 36842), (51, 36860), (52, 36863), (60, 36899), (61, 36911), (65, 36929), (71, 36950), (124, 37028), (129, 37055), (146, 37178), (151, 37229), (152, 37244), (156, 37259), (172, 37307),

Gene: SilverChicken_63 Start: 37324, Stop: 37746, Start Num: 38
Candidate Starts for SilverChicken_63:
(Start: 38 @37324 has 59 MA's), (40, 37342), (Start: 42 @37363 has 1 MA's), (47, 37384), (49, 37387), (51, 37396), (52, 37399), (60, 37435), (61, 37447), (146, 37558), (147, 37564), (151, 37609), (153, 37627), (159, 37648), (165, 37678), (171, 37690),

Gene: SimranZ1_53 Start: 36878, Stop: 37609, Start Num: 36
Candidate Starts for SimranZ1_53:
(Start: 36 @36878 has 62 MA's), (40, 36896), (Start: 42 @36917 has 1 MA's), (52, 36953), (56, 36965), (60, 36989), (61, 37001), (68, 37040), (70, 37058), (71, 37061), (88, 37139), (100, 37178), (103, 37190), (129, 37295), (137, 37349), (146, 37418), (147, 37424), (153, 37487), (178, 37562),

Gene: Soul22_57 Start: 37584, Stop: 38414, Start Num: 37
Candidate Starts for Soul22_57:

(Start: 37 @37584 has 60 MA's), (40, 37602), (Start: 42 @37623 has 1 MA's), (47, 37644), (49, 37647), (51, 37656), (52, 37659), (60, 37695), (61, 37707), (71, 37746), (91, 37827), (100, 37854), (124, 38046), (129, 38073), (146, 38232), (147, 38238), (161, 38322), (180, 38367),

Gene: Sparkdehlily_61 Start: 39036, Stop: 39497, Start Num: 38
Candidate Starts for Sparkdehlily_61:
(Start: 38 @39036 has 59 MA's), (40, 39054), (Start: 42 @39075 has 1 MA's), (47, 39096), (49, 39099), (51, 39108), (52, 39111), (60, 39147), (61, 39159), (146, 39309), (147, 39315), (151, 39360), (156, 39390), (172, 39438),

Gene: Spikelee_60 Start: 39125, Stop: 39748, Start Num: 38
Candidate Starts for Spikelee_60:
(Start: 38 @39125 has 59 MA's), (40, 39143), (Start: 42 @39164 has 1 MA's), (47, 39185), (49, 39188), (51, 39197), (52, 39200), (56, 39212), (60, 39236), (61, 39248), (91, 39368), (124, 39440), (129, 39467), (146, 39560), (147, 39566), (151, 39611), (156, 39641), (172, 39689),

Gene: Spoonbill_51 Start: 36151, Stop: 36924, Start Num: 37
Candidate Starts for Spoonbill_51:
(22, 36121), (Start: 37 @36151 has 60 MA's), (40, 36169), (Start: 42 @36190 has 1 MA's), (46, 36205), (51, 36223), (52, 36226), (56, 36238), (60, 36262), (61, 36274), (91, 36394), (124, 36466), (129, 36493), (146, 36652), (147, 36658), (151, 36703), (156, 36733), (166, 36763), (172, 36781), (183, 36859),

Gene: StAnnes_52 Start: 37618, Stop: 38367, Start Num: 36
Candidate Starts for StAnnes_52:
(Start: 36 @37618 has 62 MA's), (40, 37636), (Start: 42 @37657 has 1 MA's), (47, 37678), (49, 37681), (52, 37693), (60, 37729), (61, 37741), (71, 37780), (72, 37786), (88, 37855), (100, 37894), (103, 37906), (111, 37954), (124, 38029), (129, 38056), (137, 38110), (146, 38179), (147, 38185), (151, 38230), (153, 38248), (159, 38269), (169, 38299), (175, 38311),

Gene: Stap_52 Start: 36952, Stop: 37641, Start Num: 37
Candidate Starts for Stap_52:
(22, 36922), (Start: 37 @36952 has 60 MA's), (40, 36970), (Start: 42 @36991 has 1 MA's), (46, 37006), (51, 37024), (52, 37027), (56, 37039), (60, 37063), (61, 37075), (91, 37195), (124, 37267), (129, 37294), (146, 37453), (147, 37459), (151, 37504), (156, 37534), (166, 37564), (172, 37582),

Gene: Starcevich_53 Start: 37660, Stop: 38220, Start Num: 36
Candidate Starts for Starcevich_53:
(15, 37606), (Start: 36 @37660 has 62 MA's), (40, 37678), (Start: 42 @37699 has 1 MA's), (52, 37735), (56, 37747), (60, 37771), (61, 37783), (72, 37828), (124, 37900), (129, 37927), (146, 38020), (147, 38026), (151, 38071), (153, 38089), (156, 38104), (159, 38110),

Gene: SwagPigglett_59 Start: 39987, Stop: 40571, Start Num: 38
Candidate Starts for SwagPigglett_59:
(Start: 38 @39987 has 59 MA's), (40, 40005), (Start: 42 @40026 has 1 MA's), (47, 40047), (49, 40050), (51, 40059), (52, 40062), (60, 40098), (61, 40110), (124, 40233), (129, 40260), (137, 40314), (146, 40383), (147, 40389), (151, 40434), (156, 40464), (172, 40512),

Gene: TChen_53 Start: 37875, Stop: 38666, Start Num: 5
Candidate Starts for TChen_53:
(1, 37824), (2, 37833), (3, 37863), (4, 37872), (Start: 5 @37875 has 3 MA's), (6, 37893), (Start: 7 @37914 has 1 MA's), (8, 37935), (9, 37938), (10, 37947), (11, 37950), (13, 37962), (14, 37986), (18, 37998), (24, 38016), (31, 38037), (32, 38043), (41, 38088), (57, 38142), (75, 38202), (80, 38241), (82,

38247), (122, 38328), (125, 38334), (127, 38343), (146, 38478), (151, 38529), (153, 38547), (156, 38559), (172, 38607),

Gene: TDanisky_61 Start: 39036, Stop: 39497, Start Num: 38
Candidate Starts for TDanisky_61:
(Start: 38 @39036 has 59 MA's), (40, 39054), (Start: 42 @39075 has 1 MA's), (47, 39096), (49, 39099), (51, 39108), (52, 39111), (60, 39147), (61, 39159), (146, 39309), (147, 39315), (151, 39360), (156, 39390), (172, 39438),

Gene: Taj_57 Start: 38366, Stop: 39082, Start Num: 38
Candidate Starts for Taj_57:
(Start: 38 @38366 has 59 MA's), (40, 38384), (46, 38420), (47, 38426), (50, 38441), (51, 38447), (52, 38462), (56, 38474), (59, 38483), (60, 38498), (64, 38522), (115, 38660), (119, 38672), (124, 38720), (129, 38747), (146, 38894), (147, 38900), (151, 38945), (153, 38963), (159, 38984), (165, 39014), (169, 39026),

Gene: Tchotchke_55 Start: 36839, Stop: 37462, Start Num: 38
Candidate Starts for Tchotchke_55:
(Start: 38 @36839 has 59 MA's), (40, 36857), (Start: 42 @36878 has 1 MA's), (47, 36899), (49, 36902), (51, 36911), (52, 36914), (56, 36926), (60, 36950), (61, 36962), (91, 37082), (124, 37154), (129, 37181), (146, 37274), (147, 37280), (151, 37325), (156, 37355), (172, 37403),

Gene: ThetaBob_57 Start: 37869, Stop: 38615, Start Num: 36
Candidate Starts for ThetaBob_57:
(Start: 36 @37869 has 62 MA's), (40, 37887), (46, 37923), (47, 37929), (52, 37944), (56, 37956), (58, 37959), (59, 37965), (60, 37980), (61, 37992), (64, 38004), (78, 38067), (94, 38121), (105, 38157), (117, 38181), (124, 38232), (129, 38259), (137, 38313), (146, 38382), (147, 38388), (151, 38433), (157, 38469), (164, 38508),

Gene: Tootsieroll_55 Start: 36978, Stop: 37592, Start Num: 37
Candidate Starts for Tootsieroll_55:
(22, 36948), (Start: 37 @36978 has 60 MA's), (40, 36996), (Start: 42 @37017 has 1 MA's), (47, 37038), (49, 37041), (51, 37050), (52, 37053), (56, 37065), (59, 37074), (60, 37089), (65, 37119), (71, 37140), (72, 37146), (124, 37218), (129, 37245), (146, 37404), (147, 37410), (151, 37455), (156, 37485), (172, 37533),

Gene: Topiatin_59 Start: 39055, Stop: 39666, Start Num: 36
Candidate Starts for Topiatin_59:
(Start: 36 @39055 has 62 MA's), (40, 39073), (Start: 42 @39094 has 1 MA's), (49, 39118), (51, 39127), (52, 39130), (60, 39166), (61, 39178), (71, 39217), (72, 39223), (124, 39295), (129, 39322), (146, 39445), (147, 39451), (153, 39514),

Gene: Toron_57 Start: 39017, Stop: 39823, Start Num: 39
Candidate Starts for Toron_57:
(Start: 39 @39017 has 21 MA's), (40, 39035), (43, 39059), (45, 39068), (54, 39116), (61, 39155), (62, 39158), (63, 39164), (97, 39272), (113, 39320), (118, 39359), (121, 39413), (132, 39482), (135, 39500), (146, 39617), (147, 39623), (148, 39635), (151, 39668), (153, 39686),

Gene: Tweety_53 Start: 38001, Stop: 38609, Start Num: 39
Candidate Starts for Tweety_53:
(Start: 39 @38001 has 21 MA's), (40, 38019), (Start: 42 @38040 has 1 MA's), (47, 38061), (49, 38064), (51, 38073), (52, 38076), (56, 38088), (60, 38112), (61, 38124), (75, 38142), (80, 38181), (82, 38187), (122, 38268), (125, 38274), (127, 38283), (146, 38421), (151, 38472), (153, 38490), (159, 38511),

(168, 38541), (173, 38553),

Gene: UncleRicky_53 Start: 37888, Stop: 38472, Start Num: 38
Candidate Starts for UncleRicky_53:
(Start: 38 @37888 has 59 MA's), (40, 37906), (Start: 42 @37927 has 1 MA's), (47, 37948), (49, 37951), (51, 37960), (52, 37963), (60, 37999), (61, 38011), (124, 38134), (129, 38161), (137, 38215), (146, 38284), (147, 38290), (151, 38335), (156, 38365), (172, 38413),

Gene: VRedHorse_53 Start: 36755, Stop: 37381, Start Num: 36
Candidate Starts for VRedHorse_53:
(Start: 36 @36755 has 62 MA's), (40, 36773), (Start: 42 @36794 has 1 MA's), (47, 36815), (49, 36818), (51, 36827), (52, 36830), (60, 36866), (65, 36896), (71, 36917), (72, 36923), (76, 36935), (124, 36995), (129, 37022), (146, 37181), (147, 37187), (151, 37232), (153, 37250), (156, 37265), (159, 37271),

Gene: Velveteen_48 Start: 33538, Stop: 34161, Start Num: 37
Candidate Starts for Velveteen_48:
(Start: 37 @33538 has 60 MA's), (40, 33556), (Start: 42 @33577 has 1 MA's), (47, 33598), (49, 33601), (51, 33610), (52, 33613), (56, 33625), (59, 33634), (60, 33649), (61, 33661), (71, 33700), (72, 33706), (76, 33718), (124, 33784), (129, 33811), (146, 33970), (147, 33976), (161, 34060), (180, 34114),

Gene: Violac_56 Start: 39000, Stop: 39644, Start Num: 36
Candidate Starts for Violac_56:
(Start: 36 @39000 has 62 MA's), (40, 39018), (Start: 42 @39039 has 1 MA's), (47, 39060), (49, 39063), (51, 39072), (52, 39075), (56, 39087), (60, 39111), (61, 39123), (71, 39162), (72, 39168), (124, 39240), (129, 39267), (146, 39423), (147, 39429), (153, 39492),

Gene: Vivum_55 Start: 37973, Stop: 38578, Start Num: 39
Candidate Starts for Vivum_55:
(28, 37943), (Start: 39 @37973 has 21 MA's), (40, 37991), (Start: 42 @38012 has 1 MA's), (46, 38027), (51, 38045), (52, 38048), (56, 38060), (60, 38084), (61, 38096), (75, 38114), (80, 38153), (82, 38159), (122, 38240), (125, 38246), (127, 38255), (146, 38390), (147, 38396), (151, 38441), (156, 38471), (172, 38519),

Gene: Wachhund_55 Start: 37144, Stop: 37749, Start Num: 39
Candidate Starts for Wachhund_55:
(Start: 39 @37144 has 21 MA's), (40, 37162), (Start: 42 @37183 has 1 MA's), (47, 37204), (49, 37207), (51, 37216), (52, 37219), (56, 37231), (60, 37255), (61, 37267), (75, 37285), (80, 37324), (82, 37330), (122, 37411), (125, 37417), (127, 37426), (146, 37561), (147, 37567), (151, 37612), (153, 37630), (159, 37651), (168, 37681), (173, 37693),

Gene: Wee_56 Start: 38638, Stop: 39354, Start Num: 38
Candidate Starts for Wee_56:
(Start: 38 @38638 has 59 MA's), (40, 38656), (46, 38692), (47, 38698), (50, 38713), (51, 38719), (52, 38734), (56, 38746), (59, 38755), (60, 38770), (64, 38794), (115, 38932), (119, 38944), (124, 38992), (129, 39019), (146, 39166), (147, 39172), (151, 39217), (155, 39247), (167, 39295),

Gene: Whatsapiecost_54 Start: 36928, Stop: 37551, Start Num: 37
Candidate Starts for Whatsapiecost_54:
(Start: 37 @36928 has 60 MA's), (40, 36946), (Start: 42 @36967 has 1 MA's), (47, 36988), (49, 36991), (51, 37000), (52, 37003), (56, 37015), (59, 37024), (60, 37039), (61, 37051), (71, 37090), (72, 37096), (76, 37108), (124, 37174), (129, 37201), (146, 37360), (147, 37366), (161, 37450), (180, 37504),

Gene: Whouxphf_51 Start: 37452, Stop: 38171, Start Num: 37

Candidate Starts for Whouxphf_51:
(22, 37422), (Start: 37 @37452 has 60 MA's), (40, 37470), (Start: 42 @37491 has 1 MA's), (47, 37512), (49, 37515), (51, 37524), (52, 37527), (56, 37539), (60, 37563), (61, 37575), (76, 37632), (112, 37740), (124, 37794), (129, 37821), (146, 37980), (147, 37986), (161, 38070),

Gene: XFactor_51 Start: 36239, Stop: 36700, Start Num: 38
Candidate Starts for XFactor_51:
(Start: 38 @36239 has 59 MA's), (40, 36257), (Start: 42 @36278 has 1 MA's), (47, 36299), (49, 36302), (51, 36311), (52, 36314), (60, 36350), (61, 36362), (146, 36512), (147, 36518), (151, 36563), (156, 36593), (172, 36641),

Gene: Yorick_53 Start: 37988, Stop: 38635, Start Num: 36
Candidate Starts for Yorick_53:
(25, 37958), (Start: 36 @37988 has 62 MA's), (40, 38006), (Start: 42 @38027 has 1 MA's), (49, 38051), (51, 38060), (52, 38063), (60, 38099), (61, 38111), (71, 38150), (124, 38228), (129, 38255), (146, 38414), (147, 38420), (153, 38483),

Gene: Yoshi_65 Start: 38992, Stop: 39624, Start Num: 36
Candidate Starts for Yoshi_65:
(19, 38950), (Start: 36 @38992 has 62 MA's), (40, 39010), (Start: 42 @39031 has 1 MA's), (52, 39067), (60, 39103), (61, 39115), (71, 39154), (72, 39160), (124, 39238), (129, 39265), (146, 39424), (147, 39430), (151, 39475), (153, 39493), (156, 39508), (159, 39514),

Gene: Zapner_66 Start: 38460, Stop: 39290, Start Num: 37
Candidate Starts for Zapner_66:
(Start: 37 @38460 has 60 MA's), (40, 38478), (Start: 42 @38499 has 1 MA's), (47, 38520), (49, 38523), (51, 38532), (52, 38535), (60, 38571), (61, 38583), (71, 38622), (91, 38703), (100, 38730), (124, 38922), (129, 38949), (146, 39108), (147, 39114), (149, 39135), (161, 39198), (180, 39243),

Gene: Zerg_53 Start: 37405, Stop: 37866, Start Num: 38
Candidate Starts for Zerg_53:
(Start: 38 @37405 has 59 MA's), (40, 37423), (Start: 42 @37444 has 1 MA's), (47, 37465), (49, 37468), (51, 37477), (52, 37480), (60, 37516), (61, 37528), (146, 37678), (147, 37684), (151, 37729), (156, 37759), (172, 37807),

Gene: Zizzle_58 Start: 39306, Stop: 39890, Start Num: 38
Candidate Starts for Zizzle_58:
(27, 39276), (Start: 38 @39306 has 59 MA's), (40, 39324), (Start: 42 @39345 has 1 MA's), (49, 39369), (51, 39378), (52, 39381), (60, 39417), (61, 39429), (124, 39552), (129, 39579), (137, 39633), (146, 39702), (147, 39708), (151, 39753), (156, 39783), (172, 39831),