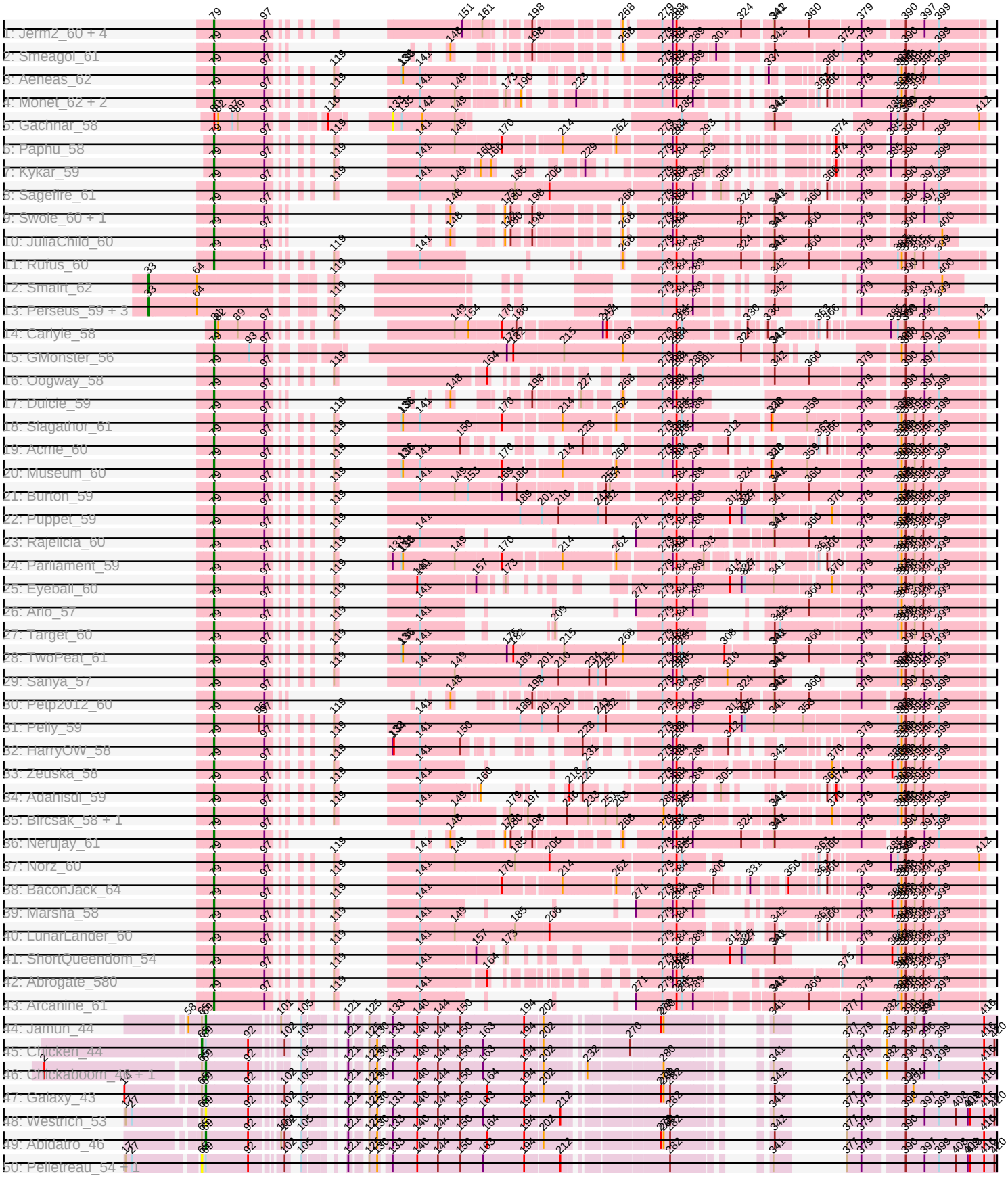
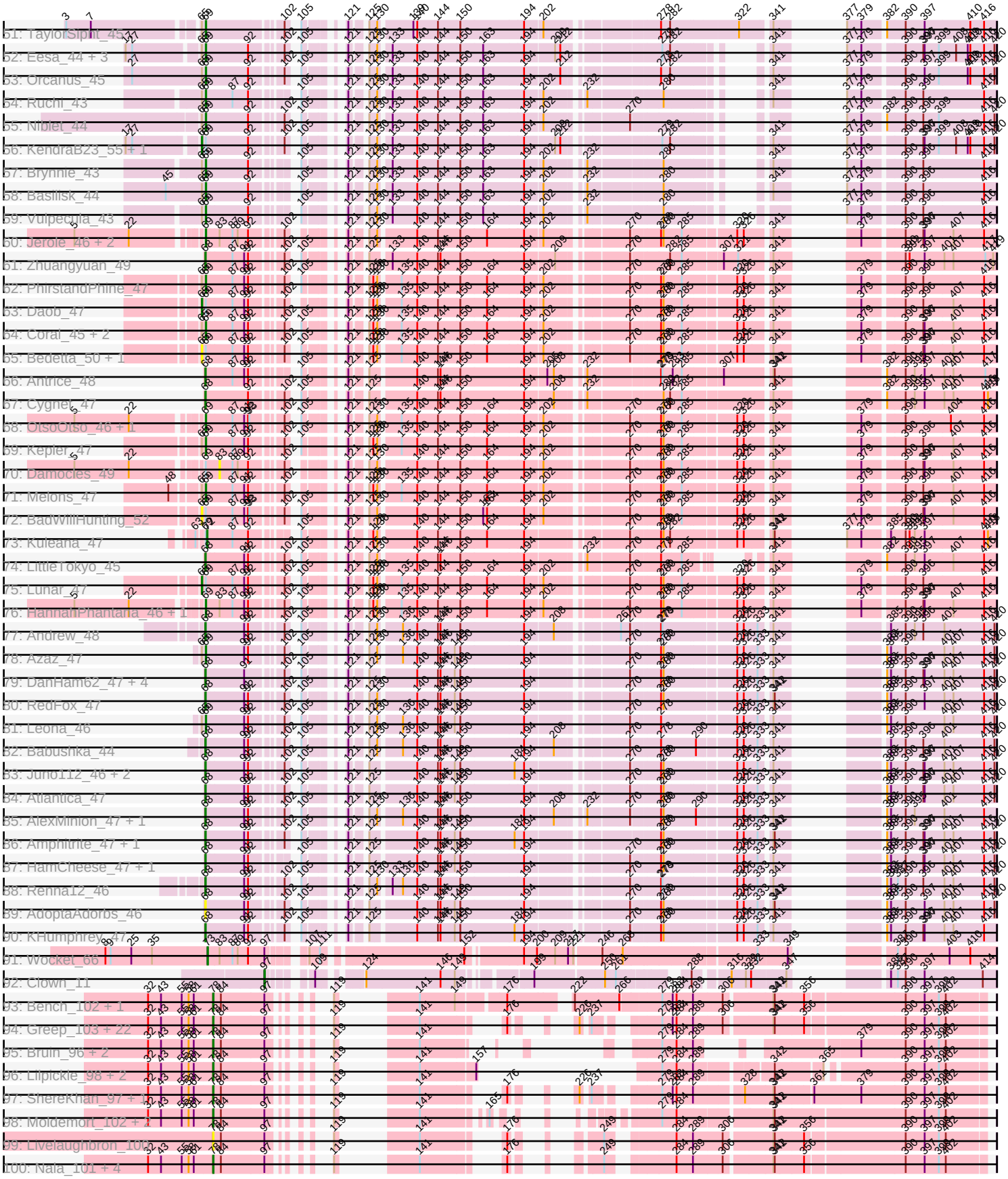
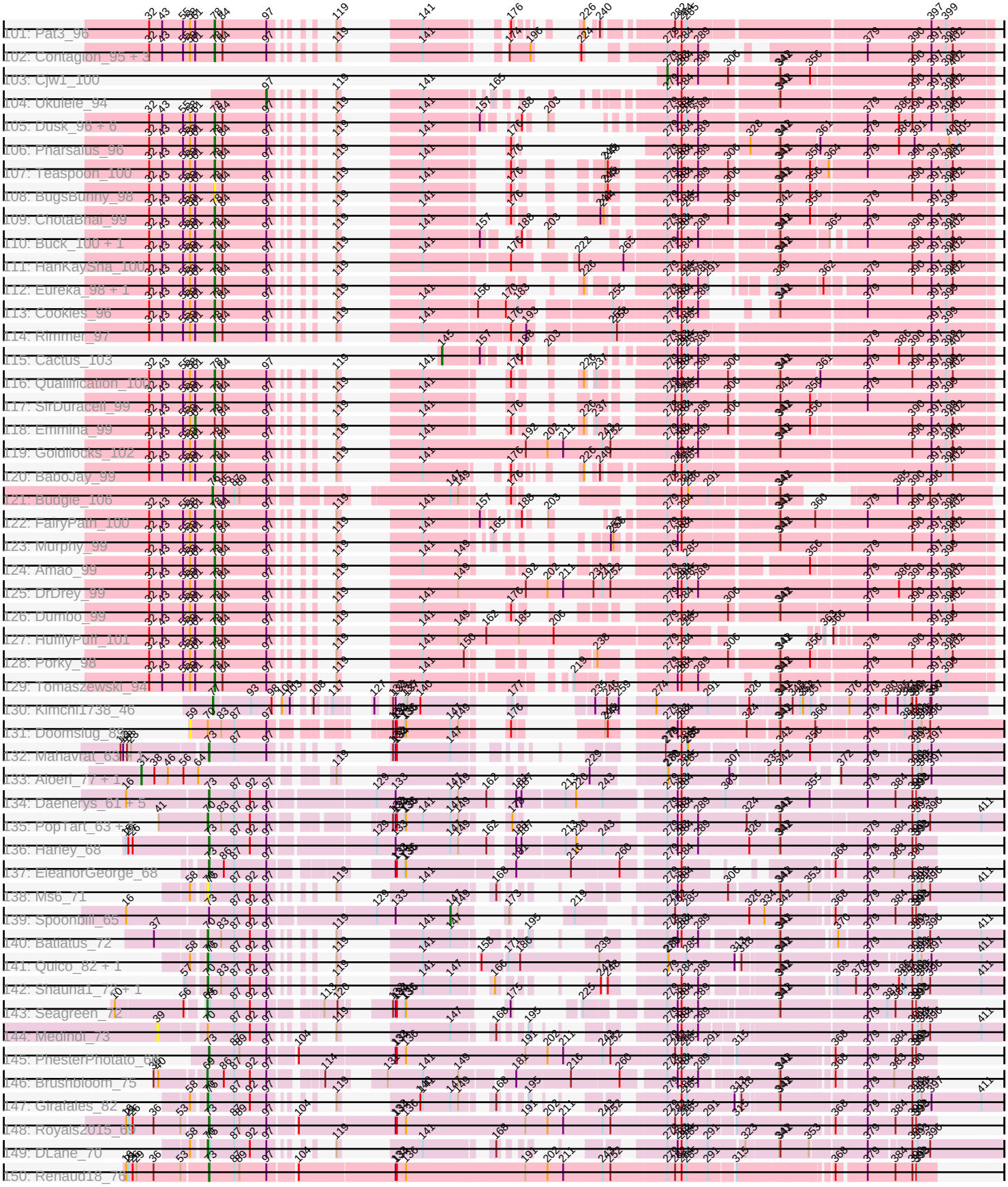
Pham 345310


1: Jerm2_60 + 4
2: Smeagol_61
3: Aeneas_62
4: Monet_62 + 2
5: Gachnar_58
6: Paphu_58
7: Kykar_59
8: Sagelfre_61
9: Swole_60 + 1
10: JuliaChild_60
11: Rufus_60
12: Smairt_62
13: Perseus_59 + 3
14: Carlyle_58
15: GMonster_56
16: Oogway_58
17: Dulcie_59
18: Slagathor_61
19: Acme_60
20: Museum_60
21: Burton_59
22: Puppet_59
23: Rajellcia_60
24: Parliament_59
25: Eyeball_60
26: Arlo_57
27: Target_60
28: TwoPeat_61
29: Sanya_57
30: Petp2012_60
31: Pelly_59
32: HarryOW_58
33: Zeuska_58
34: Adanisdi_59
35: Bircsak_58 + 1
36: Nerujay_61
37: Norz_60
38: BaconJack_64
39: Marsha_58
40: LunarLander_60
41: ShortQueendom_54
42: Abrogate_580
43: Arcanine_61
44: Jamun_44
45: Chicken_44
46: Chickaboom_46 + 1
47: Galaxy_43
48: Westrich_53
49: Abidatro_46
50: Pelletreau_54 + 1

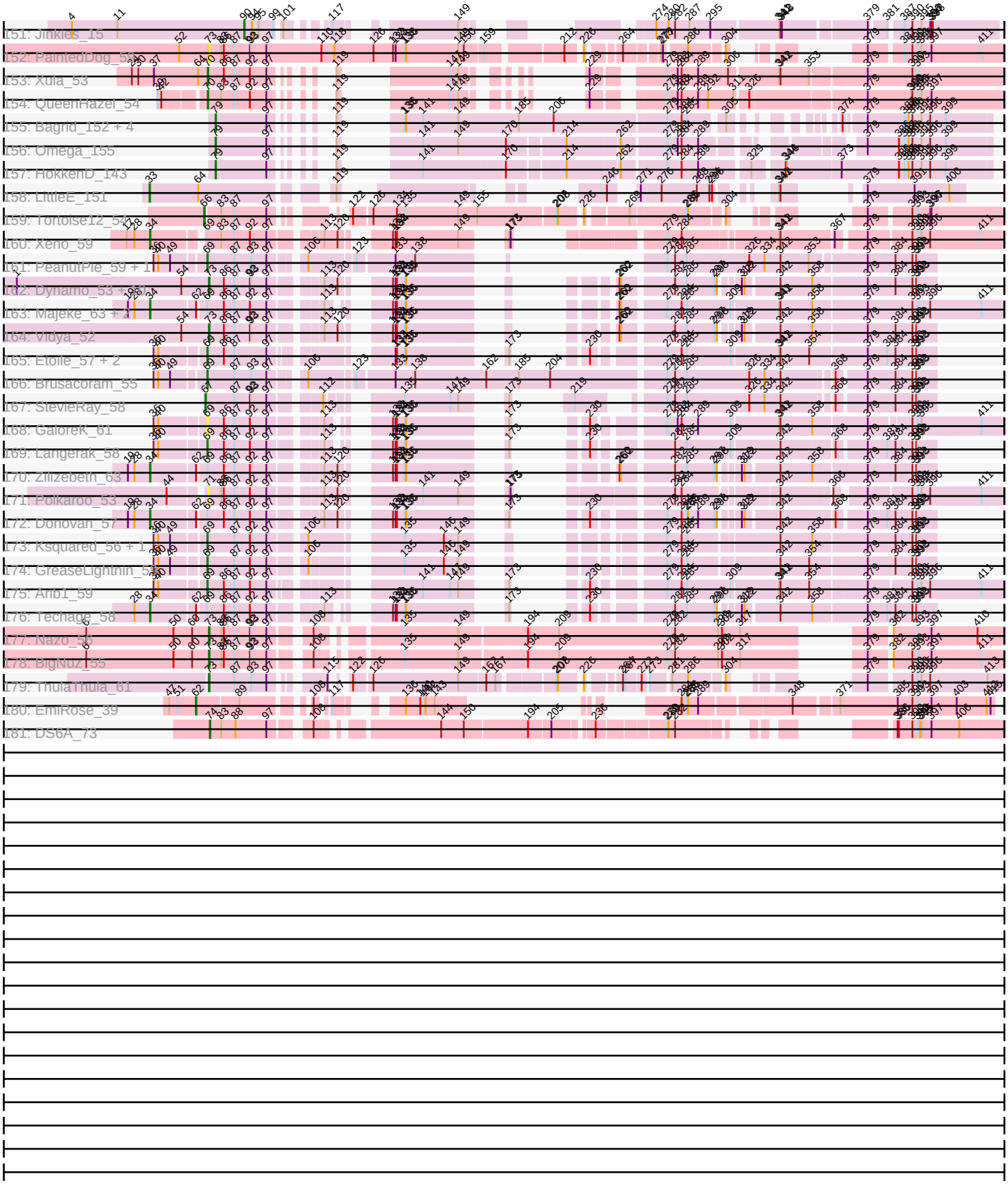
Pham 345310



Pham 345310



Pham 345310



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 345310 Report

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

Pham number 345310 has 289 members, 26 are drafts.

Phages represented in each track:
- Track 1 : Jerm2_60, Rohr_60, Bob3_58, BigMau_61, HermioneGrange_60
- Track 2 : Smeagol_61
- Track 3 : Aeneas_62
- Track 4 : Monet_62, Treddle_60, Edtherson_58
- Track 5 : Gachnar_58
- Track 6 : Paphu_58
- Track 7 : Kykar_59
- Track 8 : Sagefire_61
- Track 9 : Swole_60, Tote_55
- Track 10 : JuliaChild_60
- Track 11 : Rufus_60
- Track 12 : Smairt_62
- Track 13 : Perseus_59, Hami1_54, Mule_57, PhrostyMug_59
- Track 14 : Carlyle_58
- Track 15 : GMonster_56
- Track 16 : Oogway_58
- Track 17 : Dulcie_59
- Track 18 : Slagathor_61
- Track 19 : Acme_60
- Track 20 : Museum_60
- Track 21 : Burton_59
- Track 22 : Puppet_59
- Track 23 : Rajelicia_60
- Track 24 : Parliament_59
- Track 25 : Eyeball_60
- Track 26 : Arlo_57
- Track 27 : Target_60
- Track 28 : TwoPeat_61
- Track 29 : Sanya_57
- Track 30 : Petp2012_60
- Track 31 : Pelly_59
- Track 32 : HarryOW_58
- Track 33 : Zeuska_58
- Track 34 : Adahisdi_59
- Track 35 : Bircsak_58, Gompeii16_58
- Track 36 : Nerujay_61
- Track 37 : Norz_60

- Track 38 : BaconJack_64
- Track 39 : Marsha_58
- Track 40 : LunarLander_60
- Track 41 : ShortQueendom_54
- Track 42 : Abrogate_580
- Track 43 : Arcanine_61
- Track 44 : Jamun_44
- Track 45 : Chicken_44
- Track 46 : Chickaboom_46, WileyE_46
- Track 47 : Galaxy_43
- Track 48 : Westrich_53
- Track 49 : Abidatro_46
- Track 50 : Pelletreau_54, Gravel_54
- Track 51 : TaylorSipht_45
- Track 52 : Eesa_44, Zixiang_44, Toad24_47, Amanises_47
- Track 53 : Orcanus_45
- Track 54 : Ruchi_43
- Track 55 : Niblet_44
- Track 56 : KendraB23_55, Shen_42
- Track 57 : Brynnie_43
- Track 58 : Basilisk_44
- Track 59 : Vulpecula_43
- Track 60 : Jerole_46, Colusalem_46, Amelia_45
- Track 61 : Zhuangyuan_49
- Track 62 : PhirstandPhine_47
- Track 63 : Daob_47
- Track 64 : Coral_45, Cote_47, Pineda_47
- Track 65 : Bedetta_50, GramZayde_47
- Track 66 : Antrice_48
- Track 67 : Cygnet_47
- Track 68 : OtsoOtso_46, Polka_45
- Track 69 : Kepler_47
- Track 70 : Damocles_49
- Track 71 : Melons_47
- Track 72 : BadWillHunting_52
- Track 73 : Kuleana_47
- Track 74 : LittleTokyo_45
- Track 75 : Lunar_47
- Track 76 : HannahPhantana_46, Bibble12_49
- Track 77 : Andrew_48
- Track 78 : Azaz_47
- Track 79 : DanHam62_47, AmiCi24_46, Rattail_47, Oppalora_46, PhluffyCoco_47
- Track 80 : RedFox_47
- Track 81 : Leona_46
- Track 82 : Babushka_44
- Track 83 : Juno112_46, Fingolfin_47, Camara_47
- Track 84 : Atlantica_47
- Track 85 : AlexMinion_47, StuartMinion_39
- Track 86 : Amphitrite_47, Glotell_48
- Track 87 : HamCheese_47, Laphuphu24k_45
- Track 88 : Renna12_46
- Track 89 : AdoptaAdorbs_46
- Track 90 : KHumphrey_47

• Track 91 : Wocket_66
• Track 92 : Clown_11
• Track 93 : Bench_102, Lilizi_100
• Track 94 : Greep_103, Miniwave_94, BilboSwaggins_97, Hopey_100, CrystalP_98, Phaux_101, Stark_100, Thresher_101, ShamWow_99, SophKB_96, Henry_96, Maxxinista_101, RiverMonster_99, Paperbeatsrock_98, Hoonter_102, Policronamos_101, Filch_101, PaddyBaddy_99, Toto_97, OrionPax_98, Elph10_99, NoSleep_100, Phrux_96
• Track 95 : Bruin_96, Misfit_100, Terminus_102
• Track 96 : Lilpickle_98, ChosenOne_99, Elite2014_98
• Track 97 : ShereKhan_97, Kanye_96
• Track 98 : Moldemort_102, Simpliphy_98, MadamMonkfish_99
• Track 99 : Livelaughbron_100
• Track 100 : Nala_101, PhatBacter_102, MPhalcon_100, FireRed_102, Palpatine_100
• Track 101 : Pat3_96
• Track 102 : Contagion_95, Mosby_95, Sassay_94, Willez_94
• Track 103 : Cjw1_100
• Track 104 : Ukulele_94
• Track 105 : Dusk_96, Mindy_98, ABCat_96, Sotrice96_100, TeardropMSU_95, Tuco_100, BadStone_96
• Track 106 : Pharsalus_96
• Track 107 : Teaspoon_100
• Track 108 : BugsBunny_98
• Track 109 : ChotaBhai_99
• Track 110 : Buck_100, TeamEdward_99
• Track 111 : HanKaySha_100
• Track 112 : Eureka_98, Goku_98
• Track 113 : Cookies_96
• Track 114 : Rimmer_97
• Track 115 : Cactus_103
• Track 116 : Quallification_100
• Track 117 : SirDuracell_99
• Track 118 : Emmina_99
• Track 119 : Goldilocks_102
• Track 120 : BaboJay_99
• Track 121 : Budgie_106
• Track 122 : FairyPath_100
• Track 123 : Murphy_99
• Track 124 : Amao_99
• Track 125 : DrDrey_99
• Track 126 : Dumbo_99
• Track 127 : HufflyPuff_101
• Track 128 : Porky_98
• Track 129 : Tomaszewski_94
• Track 130 : Kimchi1738_46
• Track 131 : Doomslug_89
• Track 132 : Mahavrat_63, Grimmer_73
• Track 133 : Aloeri_77, ChickenDinner_76
• Track 134 : Daenerys_61, Leperchaun_59, JoeyJr_62, PHappiness_62, Polka14_65, RitaG_62
• Track 135 : PopTart_63, SassyB_63
• Track 136 : Harley_68

• Track 137 : EleanorGeorge_68
• Track 138 : Ms6_71
• Track 139 : Spoonbill_65
• Track 140 : Batiatus_72
• Track 141 : Quico_82, Florinda_85
• Track 142 : Shauna1_72, Phanphagia_71
• Track 143 : Seagreen_72
• Track 144 : Medindi_73
• Track 145 : PhesterPhotato_66
• Track 146 : Brushbloom_75
• Track 147 : Girafales_82
• Track 148 : Royals2015_69
• Track 149 : DLane_70
• Track 150 : Renaud18_76
• Track 151 : Jinkies_15
• Track 152 : PaintedDog_59
• Track 153 : Xula_53
• Track 154 : QueenHazel_54
• Track 155 : Bagrid_152, Duke13_147, BAKA_151, EricMillard_143, Klein_148
• Track 156 : Omega_155
• Track 157 : HokkenD_143
• Track 158 : LittleE_151
• Track 159 : Tortoise12_54
• Track 160 : Xeno_59
• Track 161 : PeanutPie_59, Bhagsy_59
• Track 162 : Dynamo_53, Malithi_53, Pygmy_57, Phineas_55, Bogie_57, HUHilltop_55, Jebeks_54, Necropolis_52, Sonah_54, Camster_54, Shipwreck_57
• Track 163 : Majeke_63, Phegasus_63, Mangethe_63
• Track 164 : Vidya_52
• Track 165 : Etoile_57, Kari_57, Fishburne_57
• Track 166 : Brusacoram_55
• Track 167 : StevieRay_58
• Track 168 : GaloreK_61
• Track 169 : Langerak_58
• Track 170 : Zilizebeth_63
• Track 171 : Polkaroo_53
• Track 172 : Donovan_57
• Track 173 : Ksquared_56, Bunnies_58
• Track 174 : GreaseLightnin_59
• Track 175 : Arib1_59
• Track 176 : Techage_58
• Track 177 : Nazo_56
• Track 178 : BigNuz_55
• Track 179 : ThulaThula_61
• Track 180 : EmiRose_39
• Track 181 : DS6A_73

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

The start number called the most often in the published annotations is 78, it was called in 73 of the 263 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABCat_96, Amao_99, BaboJay_99, BadStone_96, Bench_102, BilboSwaggins_97, Bruin_96, Buck_100, BugsBunny_98, ChosenOne_99, ChotaBhai_99, Contagion_95, Cookies_96, CrystalP_98, DrDrey_99, Dumbo_99, Dusk_96, Elite2014_98, Elph10_99, Eureka_98, FairyPath_100, Filch_101, FireRed_102, Goku_98, Goldilocks_102, Greep_103, HanKaySha_100, Henry_96, Hoonter_102, Hopey_100, HufflyPuff_101, Kanye_96, Lilizi_100, Lilpickle_98, Livelaughbron_100, MPhalcon_100, MadamMonkfish_99, Maxxinista_101, Mindy_98, Miniwave_94, Misfit_100, Moldemort_102, Mosby_95, Murphy_99, Nala_101, NoSleep_100, OrionPax_98, PaddyBaddy_99, Palpatine_100, Paperbeatsrock_98, Pat3_96, Pharsalus_96, PhatBacter_102, Phaux_101, Phrux_96, Policronamos_101, Porky_98, Quallification_100, Rimmer_97, RiverMonster_99, Sassay_94, ShamWow_99, ShereKhan_97, Simpliphy_98, SirDuracell_99, SophKB_96, Sotrice96_100, Stark_100, TeamEdward_99, TeardropMSU_95, Teaspoon_100, Terminus_102, Thresher_101, Tomaszewski_94, Toto_97, Tuco_100, Willez_94,

Genes that have the "Most Annotated" start but do not call it:
• Emmina_99,

Genes that do not have the "Most Annotated" start:
• Abidatro_46, Abrogate_580, Acme_60, Adahisdi_59, AdoptaAdorbs_46, Aeneas_62, AlexMinion_47, Aloeri_77, Amanises_47, Amelia_45, AmiCi24_46, Amphitrite_47, Andrew_48, Antrice_48, Arcanine_61, Arib1_59, Arlo_57, Atlantica_47, Azaz_47, BAKA_151, Babushka_44, BaconJack_64, BadWillHunting_52, Bagrid_152, Basilisk_44, Batiatus_72, Bedetta_50, Bhagsy_59, Bibble12_49, BigMau_61, BigNuz_55, Bircsak_58, Bob3_58, Bogie_57, Brusacoram_55, Brushbloom_75, Brynnie_43, Budgie_106, Bunnies_58, Burton_59, Cactus_103, Camara_47, Camster_54, Carlyle_58, Chickaboom_46, ChickenDinner_76, Chicken_44, Cjw1_100, Clown_11, Colusalem_46, Coral_45, Cote_47, Cygnet_47, DLane_70, DS6A_73, Daenerys_61, Damocles_49, DanHam62_47, Daob_47, Donovan_57, Doomslug_89, Duke13_147, Dulcie_59, Dynamo_53, Edtherson_58, Eesa_44, EleanorGeorge_68, EmiRose_39, EricMillard_143, Etoile_57, Eyeball_60, Fingolfin_47, Fishburne_57, Florinda_85, GMonster_56, Gachnar_58, Galaxy_43, GaloreK_61, Girafales_82, Glotell_48, Gompeii16_58, GramZayde_47, Gravel_54, GreaseLightnin_59, Grimmer_73, HUHilltop_55, HamCheese_47, Hami1_54, HannahPhantana_46, Harley_68, HarryOW_58, HermioneGrange_60, HokkenD_143, Jamun_44, Jebeks_54, Jerm2_60, Jerole_46, Jinkies_15, JoeyJr_62, JuliaChild_60, Juno112_46, KHumphrey_47, Kari_57, KendraB23_55, Kepler_47, Kimchi1738_46, Klein_148, Ksquared_56, Kuleana_47, Kykar_59, Langerak_58, Laphuphu24k_45, Leona_46, Leperchaun_59, LittleE_151, LittleTokyo_45, LunarLander_60, Lunar_47, Mahavrat_63, Majeke_63, Malithi_53, Mangethe_63, Marsha_58, Medindi_73, Melons_47, Monet_62, Ms6_71, Mule_57, Museum_60, Nazo_56, Necropolis_52, Nerujay_61, Niblet_44, Norz_60, Omega_155, Oogway_58, Oppalora_46, Orcanus_45, OtsoOtso_46, PHappiness_62, PaintedDog_59, Paphu_58, Parliament_59, PeanutPie_59, Pelletreau_54, Pelly_59, Perseus_59, Petp2012_60, Phanphagia_71, Phegasus_63, PhesterPhotato_66, Phineas_55, PhirstandPhine_47, PhluffyCoco_47, PhrostyMug_59, Pineda_47, Polka14_65, Polka_45, Polkaroo_53, PopTart_63, Puppet_59, Pygmy_57, QueenHazel_54, Quico_82, Rajelicia_60, Rattail_47, RedFox_47, Renaud18_76, Renna12_46, RitaG_62, Rohr_60,

Royals2015_69, Ruchi_43, Rufus_60, Sagefire_61, Sanya_57, SassyB_63, Seagreen_72, Shauna1_72, Shen_42, Shipwreck_57, ShortQueendom_54, Slagathor_61, Smairt_62, Smeagol_61, Sonah_54, Spoonbill_65, StevieRay_58, StuartMinion_39, Swole_60, Target_60, TaylorSipht_45, Techage_58, ThulaThula_61, Toad24_47, Tortoise12_54, Tote_55, Treddle_60, TwoPeat_61, Ukulele_94, Vidya_52, Vulpecula_43, Westrich_53, WileyE_46, Wocket_66, Xeno_59, Xula_53, Zeuska_58, Zhuangyuan_49, Zilizebeth_63, Zixiang_44,

Summary by start number:

Start 31:
• Found in 2 of 289 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloeri_77 (F1), ChickenDinner_76 (F1),

Start 33:
• Found in 6 of 289 (2.1%) of genes in pham
• Manual Annotations of this start: 6 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hami1_54 (A1), LittleE_151 (J), Mule_57 (A1), Perseus_59 (A1), PhrostyMug_59 (A1), Smairt_62 (A1),

Start 34:
• Found in 7 of 289 (2.4%) of genes in pham
• Manual Annotations of this start: 7 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Donovan_57 (P1), Majeke_63 (P1), Mangethe_63 (P1), Phegasus_63 (P1), Techage_58 (P1), Xeno_59 (N), Zilizebeth_63 (P1),

Start 39:
• Found in 2 of 289 (0.7%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Medindi_73 (F1),

Start 59:
• Found in 1 of 289 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doomslug_89 (F),

Start 61:
• Found in 77 of 289 (26.6%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 1.3% of time when present
• Phage (with cluster) where this start called: Emmina_99 (E),

Start 62:
• Found in 7 of 289 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 14.3% of time when present

• Phage (with cluster) where this start called: EmiRose_39 (singleton),

Start 65:
• Found in 35 of 289 (12.1%) of genes in pham
• Manual Annotations of this start: 4 of 263
• Called 28.6% of time when present
• Phage (with cluster) where this start called: BadWillHunting_52 (AS2), Bedetta_50 (AS2), Chicken_44 (AS1), Daob_47 (AS2), GramZayde_47 (AS2), Gravel_54 (AS1), KendraB23_55 (AS1), Lunar_47 (AS2), Pelletreau_54 (AS1), Shen_42 (AS1),

Start 66:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tortoise12_54 (N),

Start 67:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: StevieRay_58 (P1),

Start 68:
• Found in 25 of 289 (8.7%) of genes in pham
• Manual Annotations of this start: 21 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdoptaAdorbs_46 (AS3), AlexMinion_47 (AS3), AmiCi24_46 (AS3), Amphitrite_47 (AS3), Andrew_48 (AS3), Antrice_48 (AS2), Atlantica_47 (AS3), Babushka_44 (AS3), Camara_47 (AS3), Cygnet_47 (AS2), DanHam62_47 (AS3), Fingolfin_47 (AS3), Glotell_48 (AS3), HamCheese_47 (AS3), Juno112_46 (AS3), KHumphrey_47 (AS3), Laphuphu24k_45 (AS3), LittleTokyo_45 (AS2), Oppalora_46 (AS3), PhluffyCoco_47 (AS3), Rattail_47 (AS3), RedFox_47 (AS3), Renna12_46 (AS3), StuartMinion_39 (AS3), Zhuangyuan_49 (AS2),

Start 69:
• Found in 65 of 289 (22.5%) of genes in pham
• Manual Annotations of this start: 42 of 263
• Called 70.8% of time when present
• Phage (with cluster) where this start called: Abidatro_46 (AS1), Amanises_47 (AS1), Amelia_45 (AS2), Arib1_59 (P1), Azaz_47 (AS3), Basilisk_44 (AS1), Bhagsy_59 (P1), Bibble12_49 (AS2), Brusacoram_55 (P1), Brushbloom_75 (F1), Brynnie_43 (AS1), Bunnies_58 (P1), Chickaboom_46 (AS1), Colusalem_46 (AS2), Coral_45 (AS2), Cote_47 (AS2), Eesa_44 (AS1), Etoile_57 (P1), Fishburne_57 (P1), Galaxy_43 (AS1), GaloreK_61 (P1), GreaseLightnin_59 (P1), HannahPhantana_46 (AS2), Jamun_44 (AS1), Jerole_46 (AS2), Kari_57 (P1), Kepler_47 (AS2), Ksquared_56 (P1), Langerak_58 (P1), Leona_46 (AS3), Melons_47 (AS2), Niblet_44 (AS1), Orcanus_45 (AS1), OtsoOtso_46 (AS2), PeanutPie_59 (P1), PhirstandPhine_47 (AS2), Pineda_47 (AS2), Polka_45 (AS2), Ruchi_43 (AS1), Seagreen_72 (F1), TaylorSipht_45 (AS1), Toad24_47 (AS1), Vulpecula_43 (AS1), Westrich_53 (AS1), WileyE_46 (AS1), Zixiang_44 (AS1),

Start 70:
• Found in 14 of 289 (4.8%) of genes in pham

• Manual Annotations of this start: 11 of 263
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Batiatus_72 (F1), DLane_70 (F1), Florinda_85 (F1), Girafales_82 (F1), Ms6_71 (F1), Phanphagia_71 (F1), PopTart_63 (F1), QueenHazel_54 (I1), Quico_82 (F1), SassyB_63 (F1), Shauna1_72 (F1), Xula_53 (I1),

Start 71:
• Found in 1 of 289 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Polkaroo_53 (P1),

Start 72:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kuleana_47 (AS2),

Start 73:
• Found in 31 of 289 (10.7%) of genes in pham
• Manual Annotations of this start: 29 of 263
• Called 96.8% of time when present
• Phage (with cluster) where this start called: BigNuz_55 (P4), Bogie_57 (P1), Camster_54 (P1), Daenerys_61 (F1), Dynamo_53 (P1), EleanorGeorge_68 (F1), Grimmer_73 (F1), HUHilltop_55 (P1), Harley_68 (F1), Jebeks_54 (P1), JoeyJr_62 (F1), Leperchaun_59 (F1), Mahavrat_63 (F1), Malithi_53 (P1), Nazo_56 (P4), Necropolis_52 (P1), PHappiness_62 (F1), PaintedDog_59 (I1), PhesterPhotato_66 (F1), Phineas_55 (P1), Polka14_65 (F1), Pygmy_57 (P1), Renaud18_76 (F4), RitaG_62 (F1), Royals2015_69 (F1), Shipwreck_57 (P1), Sonah_54 (P1), ThulaThula_61 (P5), Vidya_52 (P1), Wocket_66 (CV),

Start 74:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DS6A_73 (singleton),

Start 76:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Budgie_106 (E),

Start 77:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kimchi1738_46 (EN),

Start 78:
• Found in 78 of 289 (27.0%) of genes in pham
• Manual Annotations of this start: 73 of 263

• Called 98.7% of time when present
• Phage (with cluster) where this start called: ABCat_96 (E), Amao_99 (E), BaboJay_99 (E), BadStone_96 (E), Bench_102 (E), BilboSwaggins_97 (E), Bruin_96 (E), Buck_100 (E), BugsBunny_98 (E), ChosenOne_99 (E), ChotaBhai_99 (E), Contagion_95 (E), Cookies_96 (E), CrystalP_98 (E), DrDrey_99 (E), Dumbo_99 (E), Dusk_96 (E), Elite2014_98 (E), Elph10_99 (E), Eureka_98 (E), FairyPath_100 (E), Filch_101 (E), FireRed_102 (E), Goku_98 (E), Goldilocks_102 (E), Greep_103 (E), HanKaySha_100 (E), Henry_96 (E), Hoonter_102 (E), Hopey_100 (E), HufflyPuff_101 (E), Kanye_96 (E), Lilizi_100 (E), Lilpickle_98 (E), Livelaughbron_100 (E), MPhalcon_100 (E), MadamMonkfish_99 (E), Maxxinista_101 (E), Mindy_98 (E), Miniwave_94 (E), Misfit_100 (E), Moldemort_102 (E), Mosby_95 (E), Murphy_99 (E), Nala_101 (E), NoSleep_100 (E), OrionPax_98 (E), PaddyBaddy_99 (E), Palpatine_100 (E), Paperbeatsrock_98 (E), Pat3_96 (E), Pharsalus_96 (E), PhatBacter_102 (E), Phaux_101 (E), Phrux_96 (E), Policronamos_101 (E), Porky_98 (E), Quallification_100 (E), Rimmer_97 (E), RiverMonster_99 (E), Sassay_94 (E), ShamWow_99 (E), ShereKhan_97 (E), Simpliphy_98 (E), SirDuracell_99 (E), SophKB_96 (E), Sotrice96_100 (E), Stark_100 (E), TeamEdward_99 (E), TeardropMSU_95 (E), Teaspoon_100 (E), Terminus_102 (E), Thresher_101 (E), Tomaszewski_94 (E), Toto_97 (E), Tuco_100 (E), Willez_94 (E),

Start 79:
• Found in 54 of 289 (18.7%) of genes in pham
• Manual Annotations of this start: 53 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abrogate_580 (A1), Acme_60 (A1), Adahisdi_59 (A1), Aeneas_62 (A1), Arcanine_61 (A1), Arlo_57 (A1), BAKA_151 (J), BaconJack_64 (A1), Bagrid_152 (J), BigMau_61 (A1), Bircsak_58 (A1), Bob3_58 (A1), Burton_59 (A1), Duke13_147 (J), Dulcie_59 (A1), Edtherson_58 (A1), EricMillard_143 (J), Eyeball_60 (A1), GMonster_56 (A1), Gompeii16_58 (A1), HarryOW_58 (A1), HermioneGrange_60 (A1), HokkenD_143 (J), Jerm2_60 (A1), JuliaChild_60 (A1), Klein_148 (J), Kykar_59 (A1), LunarLander_60 (A1), Marsha_58 (A1), Monet_62 (A1), Museum_60 (A1), Nerujay_61 (A1), Norz_60 (A1), Omega_155 (J), Oogway_58 (A1), Paphu_58 (A1), Parliament_59 (A1), Pelly_59 (A1), Petp2012_60 (A1), Puppet_59 (A1), Rajelicia_60 (A1), Rohr_60 (A1), Rufus_60 (A1), Sagefire_61 (A1), Sanya_57 (A1), ShortQueendom_54 (A1), Slagathor_61 (A1), Smeagol_61 (A1), Swole_60 (A1), Target_60 (A1), Tote_55 (A1), Treddle_60 (A1), TwoPeat_61 (A1), Zeuska_58 (A1),

Start 81:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Carlyle_58 (A1),

Start 83:
• Found in 21 of 289 (7.3%) of genes in pham
• No Manual Annotations of this start.
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Damocles_49 (AS2),

Start 90:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jinkies_15 (FL),

Start 97:
• Found in 207 of 289 (71.6%) of genes in pham
• Manual Annotations of this start: 2 of 263
• Called 1.0% of time when present
• Phage (with cluster) where this start called: Clown_11 (DC2), Ukulele_94 (E),

Start 133:
• Found in 72 of 289 (24.9%) of genes in pham
• No Manual Annotations of this start.
• Called 1.4% of time when present
• Phage (with cluster) where this start called: Gachnar_58 (A1),

Start 145:
• Found in 1 of 289 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cactus_103 (E),

Start 147:
• Found in 23 of 289 (8.0%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 4.3% of time when present
• Phage (with cluster) where this start called: Spoonbill_65 (F1),

Start 279:
• Found in 191 of 289 (66.1%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 0.5% of time when present
• Phage (with cluster) where this start called: Cjw1_100 (E),

Summary by clusters:

There are 19 clusters represented in this pham: AS3, AS2, AS1, P1, E, P4, F1, I1, FL, J, singleton, N, A1, EN, F, F4, DC2, CV, P5,

Info for manual annotations of cluster A1:
•Start number 33 was manually annotated 5 times for cluster A1.
•Start number 79 was manually annotated 47 times for cluster A1.
•Start number 81 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AS1:
•Start number 65 was manually annotated 2 times for cluster AS1.
•Start number 69 was manually annotated 16 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 65 was manually annotated 2 times for cluster AS2.
•Start number 68 was manually annotated 4 times for cluster AS2.
•Start number 69 was manually annotated 12 times for cluster AS2.
•Start number 72 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 68 was manually annotated 17 times for cluster AS3.
•Start number 69 was manually annotated 2 times for cluster AS3.

Info for manual annotations of cluster CV:
•Start number 73 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DC2:
•Start number 97 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster E:
•Start number 61 was manually annotated 1 time for cluster E.
•Start number 76 was manually annotated 1 time for cluster E.
•Start number 78 was manually annotated 73 times for cluster E.
•Start number 97 was manually annotated 1 time for cluster E.
•Start number 145 was manually annotated 1 time for cluster E.
•Start number 279 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster EN:
•Start number 77 was manually annotated 1 time for cluster EN.

Info for manual annotations of cluster F1:
•Start number 31 was manually annotated 2 times for cluster F1.
•Start number 69 was manually annotated 2 times for cluster F1.
•Start number 70 was manually annotated 9 times for cluster F1.
•Start number 73 was manually annotated 12 times for cluster F1.
•Start number 147 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F4:
•Start number 73 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster FL:
•Start number 90 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster I1:
•Start number 70 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:
•Start number 33 was manually annotated 1 time for cluster J.
•Start number 79 was manually annotated 6 times for cluster J.

Info for manual annotations of cluster N:
•Start number 34 was manually annotated 1 time for cluster N.
•Start number 66 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:
•Start number 34 was manually annotated 6 times for cluster P1.
•Start number 67 was manually annotated 1 time for cluster P1.
•Start number 69 was manually annotated 10 times for cluster P1.
•Start number 73 was manually annotated 12 times for cluster P1.

Info for manual annotations of cluster P4:

•Start number 73 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 73 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: ABCat_96 Start: 59011, Stop: 60231, Start Num: 78
Candidate Starts for ABCat_96:
(32, 58864), (43, 58894), (55, 58942), (58, 58957), (Start: 61 @58969 has 1 MA's), (Start: 78 @59011 has 73 MA's), (84, 59029), (Start: 97 @59125 has 2 MA's), (119, 59170), (141, 59254), (157, 59377), (188, 59422), (203, 59434), (Start: 279 @59539 has 1 MA's), (283, 59560), (284, 59569), (285, 59581), (289, 59605), (379, 59950), (386, 60022), (390, 60052), (397, 60094), (399, 60127), (402, 60142),

Gene: Abidatro_46 Start: 30256, Stop: 31575, Start Num: 69
Candidate Starts for Abidatro_46:
(Start: 65 @30247 has 4 MA's), (Start: 69 @30256 has 42 MA's), (92, 30352), (101, 30397), (102, 30400), (105, 30412), (121, 30466), (125, 30490), (130, 30505), (133, 30526), (140, 30583), (144, 30631), (150, 30682), (164, 30742), (194, 30823), (202, 30862), (278, 31078), (280, 31084), (282, 31099), (342, 31216), (377, 31252), (379, 31285), (390, 31372), (416, 31549),

Gene: Abrogate_580 Start: 41848, Stop: 40691, Start Num: 79
Candidate Starts for Abrogate_580:
(Start: 79 @41848 has 53 MA's), (Start: 97 @41740 has 2 MA's), (119, 41695), (141, 41611), (164, 41470), (Start: 279 @41263 has 1 MA's), (283, 41242), (284, 41233), (285, 41221), (375, 41011), (387, 40885), (388, 40876), (390, 40867), (395, 40846), (396, 40828), (399, 40792),

Gene: Acme_60 Start: 40412, Stop: 39288, Start Num: 79
Candidate Starts for Acme_60:
(Start: 79 @40412 has 53 MA's), (Start: 97 @40304 has 2 MA's), (119, 40259), (150, 40082), (228, 39965), (Start: 279 @39854 has 1 MA's), (283, 39833), (284, 39824), (285, 39812), (312, 39725), (363, 39623), (366, 39620), (379, 39566), (387, 39482), (388, 39473), (390, 39464), (395, 39443), (396, 39425), (399, 39389),

Gene: Adahisdi_59 Start: 41482, Stop: 40421, Start Num: 79
Candidate Starts for Adahisdi_59:
(Start: 79 @41482 has 53 MA's), (Start: 97 @41374 has 2 MA's), (119, 41329), (141, 41245), (160, 41122), (218, 41077), (228, 41065), (Start: 279 @40960 has 1 MA's), (283, 40939), (284, 40930), (289, 40894), (305, 40852), (366, 40753), (374, 40741), (379, 40699), (387, 40615), (388, 40606), (390, 40597), (395, 40576), (396, 40558),

Gene: AdoptaAdorbs_46 Start: 29473, Stop: 30876, Start Num: 68
Candidate Starts for AdoptaAdorbs_46:
(Start: 68 @29473 has 21 MA's), (91, 29560), (92, 29569), (102, 29617), (105, 29629), (121, 29683), (125, 29707), (140, 29800), (144, 29848), (146, 29854), (149, 29887), (150, 29899), (194, 30040), (270, 30238), (278, 30295), (280, 30301), (320, 30448), (326, 30463), (333, 30493), (341, 30514), (342, 30517), (382, 30631), (385, 30640), (390, 30673), (397, 30715), (401, 30760), (407, 30781), (416, 30850), (420, 30871),

Gene: Aeneas_62 Start: 42219, Stop: 41128, Start Num: 79
Candidate Starts for Aeneas_62:

(Start: 79 @42219 has 53 MA's), (Start: 97 @42111 has 2 MA's), (119, 42066), (135, 42024), (136, 42021), (141, 41982), (Start: 279 @41694 has 1 MA's), (283, 41673), (284, 41664), (289, 41628), (337, 41526), (366, 41460), (379, 41406), (387, 41322), (388, 41313), (390, 41304), (395, 41283), (396, 41265), (399, 41229),

Gene: AlexMinion_47 Start: 29756, Stop: 31159, Start Num: 68
Candidate Starts for AlexMinion_47:
(Start: 68 @29756 has 21 MA's), (91, 29843), (92, 29852), (102, 29900), (105, 29912), (121, 29966), (125, 29990), (130, 30005), (136, 30050), (140, 30083), (144, 30131), (146, 30137), (150, 30182), (194, 30323), (208, 30386), (232, 30434), (270, 30521), (278, 30578), (280, 30584), (290, 30653), (320, 30731), (326, 30746), (333, 30776), (341, 30797), (382, 30914), (385, 30923), (390, 30956), (395, 30977), (401, 31043), (416, 31133),

Gene: Aloeri_77 Start: 46995, Stop: 48449, Start Num: 31
Candidate Starts for Aloeri_77:
(Start: 31 @46995 has 2 MA's), (38, 47025), (46, 47055), (56, 47091), (64, 47124), (119, 47355), (229, 47634), (Start: 279 @47754 has 1 MA's), (280, 47757), (284, 47784), (285, 47796), (307, 47886), (335, 47958), (342, 47985), (372, 48087), (379, 48144), (390, 48246), (393, 48258), (395, 48267), (397, 48288),

Gene: Amanises_47 Start: 31184, Stop: 32503, Start Num: 69
Candidate Starts for Amanises_47:
(17, 31025), (27, 31040), (Start: 65 @31175 has 4 MA's), (Start: 69 @31184 has 42 MA's), (92, 31280), (102, 31328), (105, 31340), (121, 31394), (125, 31418), (130, 31433), (133, 31454), (140, 31511), (144, 31559), (150, 31610), (163, 31661), (194, 31751), (209, 31817), (212, 31829), (Start: 279 @32009 has 1 MA's), (282, 32027), (341, 32141), (377, 32180), (379, 32213), (390, 32300), (396, 32339), (397, 32342), (399, 32375), (408, 32414), (409, 32441), (410, 32447), (416, 32477), (420, 32498),

Gene: Amao_99 Start: 58453, Stop: 59655, Start Num: 78
Candidate Starts for Amao_99:
(32, 58306), (43, 58336), (55, 58384), (58, 58399), (Start: 61 @58411 has 1 MA's), (Start: 78 @58453 has 73 MA's), (84, 58471), (Start: 97 @58567 has 2 MA's), (119, 58612), (141, 58696), (149, 58777), (Start: 279 @58984 has 1 MA's), (285, 59026), (356, 59260), (379, 59374), (397, 59518), (399, 59551),

Gene: Amelia_45 Start: 28531, Stop: 29934, Start Num: 69
Candidate Starts for Amelia_45:
(5, 28270), (22, 28396), (Start: 69 @28531 has 42 MA's), (83, 28561), (87, 28591), (89, 28603), (92, 28627), (102, 28675), (121, 28741), (125, 28765), (130, 28780), (140, 28858), (144, 28906), (150, 28957), (164, 29017), (194, 29098), (202, 29137), (270, 29296), (278, 29353), (280, 29359), (285, 29398), (320, 29506), (326, 29521), (341, 29572), (379, 29644), (390, 29731), (396, 29770), (397, 29773), (407, 29839), (416, 29908),

Gene: AmiCi24_46 Start: 29582, Stop: 30985, Start Num: 68
Candidate Starts for AmiCi24_46:
(Start: 68 @29582 has 21 MA's), (91, 29669), (102, 29726), (105, 29738), (121, 29792), (125, 29816), (140, 29909), (144, 29957), (146, 29963), (149, 29996), (150, 30008), (194, 30149), (270, 30347), (278, 30404), (280, 30410), (320, 30557), (326, 30572), (333, 30602), (341, 30623), (382, 30740), (385, 30749), (390, 30782), (396, 30821), (397, 30824), (401, 30869), (407, 30890), (416, 30959), (420, 30980),

Gene: Amphitrite_47 Start: 29472, Stop: 30875, Start Num: 68
Candidate Starts for Amphitrite_47:

(Start: 68 @29472 has 21 MA's), (91, 29559), (92, 29568), (102, 29616), (105, 29628), (121, 29682), (125, 29706), (140, 29799), (144, 29847), (146, 29853), (149, 29886), (150, 29898), (184, 30021), (194, 30039), (278, 30294), (280, 30300), (320, 30447), (326, 30462), (333, 30492), (341, 30513), (342, 30516), (382, 30630), (385, 30639), (390, 30672), (396, 30711), (397, 30714), (401, 30759), (407, 30780), (416, 30849), (420, 30870),

Gene: Andrew_48 Start: 29461, Stop: 30864, Start Num: 68
Candidate Starts for Andrew_48:
(Start: 68 @29461 has 21 MA's), (91, 29548), (92, 29557), (102, 29605), (105, 29617), (121, 29671), (125, 29695), (130, 29710), (136, 29755), (140, 29788), (144, 29836), (146, 29842), (150, 29887), (194, 30028), (208, 30091), (267, 30205), (270, 30226), (278, 30283), (Start: 279 @30286 has 1 MA's), (320, 30436), (326, 30451), (333, 30481), (341, 30502), (385, 30628), (390, 30661), (395, 30682), (396, 30700), (401, 30748), (416, 30838), (420, 30859),

Gene: Antrice_48 Start: 29701, Stop: 31119, Start Num: 68
Candidate Starts for Antrice_48:
(Start: 68 @29701 has 21 MA's), (87, 29761), (91, 29788), (92, 29797), (105, 29857), (121, 29911), (125, 29935), (140, 30028), (144, 30076), (146, 30082), (150, 30127), (194, 30268), (205, 30316), (208, 30331), (232, 30379), (278, 30526), (Start: 279 @30529 has 1 MA's), (283, 30550), (285, 30571), (307, 30655), (341, 30754), (342, 30757), (382, 30874), (390, 30916), (395, 30937), (397, 30958), (401, 31003), (407, 31024), (417, 31096),

Gene: Arcanine_61 Start: 41436, Stop: 40348, Start Num: 79
Candidate Starts for Arcanine_61:
(Start: 79 @41436 has 53 MA's), (Start: 97 @41328 has 2 MA's), (119, 41283), (141, 41199), (271, 41076), (Start: 279 @41022 has 1 MA's), (284, 40992), (285, 40980), (289, 40956), (341, 40815), (342, 40812), (360, 40734), (379, 40626), (387, 40542), (388, 40533), (390, 40524), (395, 40503), (396, 40485), (399, 40449),

Gene: Arib1_59 Start: 37790, Stop: 39160, Start Num: 69
Candidate Starts for Arib1_59:
(36, 37688), (40, 37697), (Start: 69 @37790 has 42 MA's), (86, 37826), (87, 37850), (92, 37886), (Start: 97 @37919 has 2 MA's), (141, 38165), (Start: 147 @38228 has 1 MA's), (149, 38246), (173, 38288), (230, 38330), (Start: 279 @38453 has 1 MA's), (284, 38483), (285, 38495), (309, 38582), (341, 38684), (342, 38687), (354, 38750), (379, 38867), (390, 38954), (393, 38966), (395, 38975), (396, 38993), (411, 39110),

Gene: Arlo_57 Start: 39819, Stop: 38818, Start Num: 79
Candidate Starts for Arlo_57:
(Start: 79 @39819 has 53 MA's), (Start: 97 @39711 has 2 MA's), (119, 39666), (141, 39582), (271, 39459), (Start: 279 @39405 has 1 MA's), (284, 39375), (289, 39339), (360, 39204), (379, 39096), (387, 39012), (388, 39003), (395, 38973), (396, 38955), (399, 38919),

Gene: Atlantica_47 Start: 29584, Stop: 30987, Start Num: 68
Candidate Starts for Atlantica_47:
(Start: 68 @29584 has 21 MA's), (91, 29671), (92, 29680), (102, 29728), (105, 29740), (121, 29794), (125, 29818), (140, 29911), (144, 29959), (146, 29965), (149, 29998), (150, 30010), (194, 30151), (270, 30349), (278, 30406), (280, 30412), (320, 30559), (326, 30574), (333, 30604), (341, 30625), (382, 30742), (385, 30751), (390, 30784), (396, 30823), (397, 30826), (401, 30871), (407, 30892), (416, 30961), (420, 30982),

Gene: Azaz_47 Start: 29661, Stop: 31064, Start Num: 69
Candidate Starts for Azaz_47:

(Start: 65 @29652 has 4 MA's), (Start: 69 @29661 has 42 MA's), (91, 29748), (92, 29757), (102, 29805), (105, 29817), (121, 29871), (125, 29895), (130, 29910), (136, 29955), (140, 29988), (144, 30036), (146, 30042), (149, 30075), (150, 30087), (194, 30228), (270, 30426), (278, 30483), (280, 30489), (320, 30636), (326, 30651), (333, 30681), (341, 30702), (382, 30819), (385, 30828), (390, 30861), (401, 30948), (407, 30969), (416, 31038), (420, 31059),

Gene: BAKA_151 Start: 79379, Stop: 80692, Start Num: 79
Candidate Starts for BAKA_151:
(Start: 79 @79379 has 53 MA's), (Start: 97 @79487 has 2 MA's), (119, 79532), (135, 79574), (136, 79577), (141, 79616), (149, 79697), (185, 79835), (206, 79907), (Start: 279 @80153 has 1 MA's), (284, 80183), (285, 80195), (305, 80261), (374, 80372), (379, 80414), (387, 80498), (388, 80507), (390, 80516), (395, 80537), (396, 80555), (399, 80591),

Gene: BaboJay_99 Start: 59202, Stop: 60419, Start Num: 78
Candidate Starts for BaboJay_99:
(32, 59055), (43, 59085), (55, 59133), (58, 59148), (Start: 61 @59160 has 1 MA's), (Start: 78 @59202 has 73 MA's), (84, 59220), (Start: 97 @59316 has 2 MA's), (119, 59361), (141, 59445), (176, 59568), (226, 59613), (240, 59625), (282, 59748), (284, 59760), (285, 59772), (397, 60282), (399, 60315), (402, 60330),

Gene: Babushka_44 Start: 29406, Stop: 30809, Start Num: 68
Candidate Starts for Babushka_44:
(Start: 68 @29406 has 21 MA's), (91, 29493), (92, 29502), (102, 29550), (105, 29562), (121, 29616), (125, 29640), (130, 29655), (136, 29700), (140, 29733), (144, 29781), (146, 29787), (150, 29832), (194, 29973), (208, 30036), (270, 30171), (278, 30228), (290, 30303), (320, 30381), (326, 30396), (333, 30426), (341, 30447), (385, 30573), (390, 30606), (396, 30645), (401, 30693), (416, 30783), (420, 30804),

Gene: BaconJack_64 Start: 43186, Stop: 41879, Start Num: 79
Candidate Starts for BaconJack_64:
(Start: 79 @43186 has 53 MA's), (Start: 97 @43078 has 2 MA's), (119, 43033), (141, 42949), (170, 42769), (214, 42652), (262, 42550), (Start: 279 @42463 has 1 MA's), (284, 42433), (300, 42364), (331, 42316), (350, 42265), (363, 42214), (366, 42211), (379, 42157), (387, 42073), (388, 42064), (390, 42055), (395, 42034), (396, 42016), (399, 41980),

Gene: BadStone_96 Start: 58580, Stop: 59800, Start Num: 78
Candidate Starts for BadStone_96:
(32, 58433), (43, 58463), (55, 58511), (58, 58526), (Start: 61 @58538 has 1 MA's), (Start: 78 @58580 has 73 MA's), (84, 58598), (Start: 97 @58694 has 2 MA's), (119, 58739), (141, 58823), (157, 58946), (188, 58991), (203, 59003), (Start: 279 @59108 has 1 MA's), (283, 59129), (284, 59138), (285, 59150), (289, 59174), (379, 59519), (386, 59591), (390, 59621), (397, 59663), (399, 59696), (402, 59711),

Gene: BadWillHunting_52 Start: 29021, Stop: 30433, Start Num: 65
Candidate Starts for BadWillHunting_52:
(Start: 65 @29021 has 4 MA's), (Start: 69 @29030 has 42 MA's), (87, 29090), (91, 29117), (92, 29126), (93, 29129), (102, 29174), (105, 29186), (121, 29240), (125, 29264), (130, 29279), (140, 29357), (144, 29405), (150, 29456), (163, 29507), (164, 29516), (194, 29597), (202, 29636), (270, 29795), (278, 29852), (280, 29858), (285, 29897), (320, 30005), (326, 30020), (341, 30071), (379, 30143), (390, 30230), (396, 30269), (397, 30272), (407, 30338), (416, 30407),

Gene: Bagrid_152 Start: 80074, Stop: 81387, Start Num: 79
Candidate Starts for Bagrid_152:

(Start: 79 @80074 has 53 MA's), (Start: 97 @80182 has 2 MA's), (119, 80227), (135, 80269), (136, 80272), (141, 80311), (149, 80392), (185, 80530), (206, 80602), (Start: 279 @80848 has 1 MA's), (284, 80878), (285, 80890), (305, 80956), (374, 81067), (379, 81109), (387, 81193), (388, 81202), (390, 81211), (395, 81232), (396, 81250), (399, 81286),

Gene: Basilisk_44 Start: 29453, Stop: 30772, Start Num: 69
Candidate Starts for Basilisk_44:
(45, 29360), (Start: 65 @29444 has 4 MA's), (Start: 69 @29453 has 42 MA's), (92, 29549), (105, 29609), (121, 29663), (125, 29687), (130, 29702), (133, 29723), (140, 29780), (144, 29828), (150, 29879), (163, 29930), (194, 30020), (202, 30059), (232, 30131), (280, 30281), (341, 30410), (377, 30449), (379, 30482), (390, 30569), (396, 30608), (416, 30746),

Gene: Batiatus_72 Start: 45517, Stop: 46752, Start Num: 70
Candidate Starts for Batiatus_72:
(37, 45418), (Start: 70 @45517 has 11 MA's), (83, 45547), (87, 45577), (92, 45613), (Start: 97 @45646 has 2 MA's), (119, 45691), (141, 45775), (Start: 147 @45838 has 1 MA's), (195, 45931), (Start: 279 @46072 has 1 MA's), (283, 46093), (284, 46102), (289, 46138), (341, 46282), (342, 46285), (370, 46387), (379, 46444), (390, 46546), (393, 46558), (396, 46585), (411, 46702),

Gene: Bedetta_50 Start: 28689, Stop: 30101, Start Num: 65
Candidate Starts for Bedetta_50:
(Start: 65 @28689 has 4 MA's), (Start: 69 @28698 has 42 MA's), (87, 28758), (91, 28785), (92, 28794), (102, 28842), (105, 28854), (121, 28908), (125, 28932), (128, 28941), (130, 28947), (135, 28989), (140, 29025), (144, 29073), (150, 29124), (164, 29184), (194, 29265), (202, 29304), (270, 29463), (278, 29520), (280, 29526), (285, 29565), (320, 29673), (326, 29688), (341, 29739), (379, 29811), (390, 29898), (396, 29937), (397, 29940), (407, 30006), (416, 30075),

Gene: Bench_102 Start: 58996, Stop: 60420, Start Num: 78
Candidate Starts for Bench_102:
(32, 58849), (43, 58879), (55, 58927), (58, 58942), (Start: 61 @58954 has 1 MA's), (Start: 78 @58996 has 73 MA's), (84, 59014), (Start: 97 @59110 has 2 MA's), (119, 59155), (141, 59239), (149, 59320), (176, 59419), (222, 59536), (266, 59638), (Start: 279 @59725 has 1 MA's), (283, 59746), (284, 59755), (289, 59791), (306, 59854), (341, 59956), (342, 59959), (356, 60022), (390, 60241), (397, 60283), (399, 60316), (402, 60331),

Gene: Bhagsy_59 Start: 38487, Stop: 39632, Start Num: 69
Candidate Starts for Bhagsy_59:
(36, 38385), (40, 38394), (49, 38421), (Start: 69 @38487 has 42 MA's), (87, 38547), (93, 38586), (Start: 97 @38616 has 2 MA's), (106, 38673), (123, 38760), (133, 38838), (138, 38883), (Start: 279 @39069 has 1 MA's), (282, 39087), (285, 39111), (326, 39246), (334, 39276), (342, 39312), (353, 39375), (379, 39489), (384, 39549), (390, 39582), (392, 39591), (393, 39594),

Gene: Bibble12_49 Start: 28526, Stop: 29929, Start Num: 69
Candidate Starts for Bibble12_49:
(5, 28265), (22, 28391), (Start: 69 @28526 has 42 MA's), (83, 28556), (87, 28586), (91, 28613), (92, 28622), (102, 28670), (105, 28682), (121, 28736), (125, 28760), (128, 28769), (130, 28775), (135, 28817), (140, 28853), (144, 28901), (150, 28952), (164, 29012), (194, 29093), (202, 29132), (270, 29291), (278, 29348), (280, 29354), (285, 29393), (320, 29501), (326, 29516), (341, 29567), (379, 29639), (390, 29726), (396, 29765), (397, 29768), (407, 29834), (416, 29903),

Gene: BigMau_61 Start: 40528, Stop: 39233, Start Num: 79
Candidate Starts for BigMau_61:

(Start: 79 @40528 has 53 MA's), (Start: 97 @40420 has 2 MA's), (151, 40198), (161, 40156), (198, 40093), (268, 39970), (Start: 279 @39916 has 1 MA's), (283, 39895), (284, 39886), (324, 39748), (341, 39685), (342, 39682), (360, 39604), (379, 39496), (390, 39409), (397, 39367), (399, 39334),

Gene: BigNuz_55 Start: 38221, Stop: 39756, Start Num: 73
Candidate Starts for BigNuz_55:
(6, 37939), (50, 38140), (60, 38182), (Start: 73 @38221 has 29 MA's), (83, 38248), (86, 38254), (87, 38278), (92, 38314), (93, 38317), (Start: 97 @38347 has 2 MA's), (108, 38413), (135, 38563), (149, 38686), (194, 38824), (209, 38896), (Start: 279 @39142 has 1 MA's), (282, 39160), (299, 39250), (302, 39259), (317, 39301), (379, 39466), (382, 39511), (390, 39553), (393, 39565), (397, 39595), (411, 39709),

Gene: BilboSwaggins_97 Start: 58977, Stop: 60200, Start Num: 78
Candidate Starts for BilboSwaggins_97:
(32, 58830), (43, 58860), (55, 58908), (58, 58923), (Start: 61 @58935 has 1 MA's), (Start: 78 @58977 has 73 MA's), (84, 58995), (Start: 97 @59091 has 2 MA's), (119, 59136), (141, 59220), (176, 59343), (226, 59388), (237, 59400), (Start: 279 @59505 has 1 MA's), (283, 59526), (284, 59535), (289, 59571), (306, 59634), (341, 59736), (342, 59739), (356, 59802), (390, 60021), (397, 60063), (399, 60096), (402, 60111),

Gene: Bircsak_58 Start: 41982, Stop: 40606, Start Num: 79
Candidate Starts for Bircsak_58:
(Start: 79 @41982 has 53 MA's), (Start: 97 @41874 has 2 MA's), (119, 41829), (141, 41745), (149, 41664), (179, 41559), (197, 41523), (216, 41454), (233, 41406), (251, 41373), (263, 41346), (280, 41250), (284, 41223), (285, 41211), (341, 41046), (342, 41043), (370, 40941), (379, 40884), (387, 40800), (388, 40791), (390, 40782), (395, 40761), (396, 40743), (399, 40707),

Gene: Bob3_58 Start: 39785, Stop: 38499, Start Num: 79
Candidate Starts for Bob3_58:
(Start: 79 @39785 has 53 MA's), (Start: 97 @39677 has 2 MA's), (151, 39455), (161, 39413), (198, 39350), (268, 39227), (Start: 279 @39173 has 1 MA's), (283, 39152), (284, 39143), (324, 39014), (341, 38951), (342, 38948), (360, 38870), (379, 38762), (390, 38675), (397, 38633), (399, 38600),

Gene: Bogie_57 Start: 38391, Stop: 39584, Start Num: 73
Candidate Starts for Bogie_57:
(1, 37956), (54, 38328), (Start: 73 @38391 has 29 MA's), (86, 38424), (87, 38448), (92, 38484), (93, 38487), (Start: 97 @38517 has 2 MA's), (113, 38607), (120, 38634), (132, 38697), (133, 38703), (134, 38706), (135, 38724), (136, 38727), (260, 38970), (262, 38973), (282, 39075), (285, 39099), (297, 39156), (298, 39162), (319, 39192), (322, 39198), (342, 39264), (358, 39327), (379, 39441), (384, 39501), (390, 39534), (392, 39543), (393, 39546),

Gene: Bruin_96 Start: 57875, Stop: 58906, Start Num: 78
Candidate Starts for Bruin_96:
(32, 57728), (43, 57758), (55, 57806), (58, 57821), (Start: 61 @57833 has 1 MA's), (Start: 78 @57875 has 73 MA's), (84, 57893), (Start: 97 @57989 has 2 MA's), (119, 58034), (141, 58118), (Start: 279 @58322 has 1 MA's), (284, 58352), (289, 58388), (379, 58625), (390, 58727), (397, 58769), (399, 58802), (402, 58817),

Gene: Brusacoram_55 Start: 36850, Stop: 38346, Start Num: 69
Candidate Starts for Brusacoram_55:
(36, 36748), (40, 36757), (49, 36784), (Start: 69 @36850 has 42 MA's), (87, 36910), (93, 36949), (Start: 97 @36979 has 2 MA's), (106, 37036), (123, 37123), (133, 37201), (138, 37246), (162, 37408), (185, 37483), (204, 37555), (Start: 279 @37801 has 1 MA's), (282, 37819), (285, 37843), (326, 37978),

(334, 38008), (342, 38044), (368, 38146), (379, 38203), (384, 38263), (390, 38296), (392, 38305), (393, 38308),

Gene: Brushbloom_75 Start: 46445, Stop: 47815, Start Num: 69
Candidate Starts for Brushbloom_75:
(36, 46343), (40, 46352), (Start: 69 @46445 has 42 MA's), (86, 46481), (87, 46505), (92, 46541), (Start: 97 @46574 has 2 MA's), (114, 46658), (131, 46733), (141, 46814), (149, 46895), (181, 46994), (216, 47111), (260, 47213), (Start: 279 @47300 has 1 MA's), (283, 47321), (284, 47330), (289, 47366), (341, 47510), (342, 47513), (368, 47615), (379, 47672), (383, 47729), (390, 47765),

Gene: Brynnie_43 Start: 29310, Stop: 30629, Start Num: 69
Candidate Starts for Brynnie_43:
(Start: 65 @29301 has 4 MA's), (Start: 69 @29310 has 42 MA's), (92, 29406), (105, 29466), (121, 29520), (125, 29544), (130, 29559), (133, 29580), (140, 29637), (144, 29685), (150, 29736), (163, 29787), (194, 29877), (202, 29916), (232, 29988), (280, 30138), (341, 30267), (377, 30306), (379, 30339), (390, 30426), (396, 30465), (416, 30603),

Gene: Buck_100 Start: 59565, Stop: 60743, Start Num: 78
Candidate Starts for Buck_100:
(32, 59418), (43, 59448), (55, 59496), (58, 59511), (Start: 61 @59523 has 1 MA's), (Start: 78 @59565 has 73 MA's), (84, 59583), (Start: 97 @59679 has 2 MA's), (119, 59724), (141, 59808), (157, 59931), (188, 59976), (203, 59988), (Start: 279 @60093 has 1 MA's), (283, 60114), (284, 60123), (289, 60159), (341, 60300), (342, 60303), (365, 60405), (379, 60462), (390, 60564), (397, 60606), (399, 60639), (402, 60654),

Gene: Budgie_106 Start: 58862, Stop: 60100, Start Num: 76
Candidate Starts for Budgie_106:
(Start: 76 @58862 has 1 MA's), (85, 58886), (87, 58910), (89, 58922), (Start: 97 @58979 has 2 MA's), (Start: 147 @59288 has 1 MA's), (149, 59306), (176, 59348), (Start: 279 @59513 has 1 MA's), (284, 59546), (286, 59561), (291, 59603), (341, 59738), (342, 59741), (385, 59891), (390, 59924), (396, 59963),

Gene: BugsBunny_98 Start: 58975, Stop: 60219, Start Num: 78
Candidate Starts for BugsBunny_98:
(32, 58828), (43, 58858), (55, 58906), (58, 58921), (Start: 61 @58933 has 1 MA's), (Start: 78 @58975 has 73 MA's), (84, 58993), (Start: 97 @59089 has 2 MA's), (119, 59134), (141, 59218), (176, 59341), (245, 59428), (248, 59434), (Start: 279 @59524 has 1 MA's), (283, 59545), (284, 59554), (289, 59590), (306, 59653), (341, 59755), (342, 59758), (356, 59821), (390, 60040), (397, 60082), (399, 60115), (402, 60130),

Gene: Bunnies_58 Start: 38503, Stop: 39714, Start Num: 69
Candidate Starts for Bunnies_58:
(36, 38401), (40, 38410), (49, 38437), (Start: 69 @38503 has 42 MA's), (87, 38563), (92, 38599), (Start: 97 @38632 has 2 MA's), (106, 38698), (135, 38848), (146, 38938), (149, 38971), (Start: 279 @39178 has 1 MA's), (284, 39208), (285, 39220), (342, 39394), (358, 39457), (379, 39571), (384, 39631), (390, 39664), (392, 39673), (393, 39676),

Gene: Burton_59 Start: 41590, Stop: 40172, Start Num: 79
Candidate Starts for Burton_59:
(Start: 79 @41590 has 53 MA's), (Start: 97 @41482 has 2 MA's), (119, 41437), (141, 41353), (149, 41272), (153, 41242), (169, 41173), (186, 41140), (252, 40978), (257, 40969), (284, 40840), (289, 40804), (324, 40702), (341, 40639), (342, 40636), (360, 40558), (379, 40450), (387, 40366), (388, 40357), (390, 40348), (395, 40327), (396, 40309), (399, 40273),

Gene: Cactus_103 Start: 58228, Stop: 59160, Start Num: 145
Candidate Starts for Cactus_103:
(Start: 145 @58228 has 1 MA's), (157, 58306), (188, 58351), (203, 58363), (Start: 279 @58468 has 1 MA's), (283, 58489), (284, 58498), (285, 58510), (289, 58534), (379, 58879), (386, 58951), (390, 58981), (397, 59023), (399, 59056), (402, 59071),

Gene: Camara_47 Start: 29475, Stop: 30878, Start Num: 68
Candidate Starts for Camara_47:
(Start: 68 @29475 has 21 MA's), (91, 29562), (92, 29571), (102, 29619), (105, 29631), (121, 29685), (125, 29709), (140, 29802), (144, 29850), (146, 29856), (149, 29889), (150, 29901), (184, 30024), (194, 30042), (270, 30240), (278, 30297), (280, 30303), (320, 30450), (326, 30465), (333, 30495), (341, 30516), (382, 30633), (385, 30642), (390, 30675), (396, 30714), (397, 30717), (401, 30762), (407, 30783), (416, 30852), (420, 30873),

Gene: Camster_54 Start: 36147, Stop: 37340, Start Num: 73
Candidate Starts for Camster_54:
(1, 35712), (54, 36084), (Start: 73 @36147 has 29 MA's), (86, 36180), (87, 36204), (92, 36240), (93, 36243), (Start: 97 @36273 has 2 MA's), (113, 36363), (120, 36390), (132, 36453), (133, 36459), (134, 36462), (135, 36480), (136, 36483), (260, 36726), (262, 36729), (282, 36831), (285, 36855), (297, 36912), (298, 36918), (319, 36948), (322, 36954), (342, 37020), (358, 37083), (379, 37197), (384, 37257), (390, 37290), (392, 37299), (393, 37302),

Gene: Carlyle_58 Start: 38683, Stop: 37388, Start Num: 81
Candidate Starts for Carlyle_58:
(Start: 81 @38683 has 1 MA's), (82, 38677), (89, 38635), (Start: 97 @38578 has 2 MA's), (119, 38533), (149, 38368), (154, 38338), (170, 38269), (186, 38236), (247, 38074), (254, 38065), (284, 37936), (285, 37924), (330, 37822), (336, 37795), (363, 37729), (366, 37726), (385, 37603), (387, 37588), (389, 37573), (390, 37570), (396, 37531), (412, 37402),

Gene: Chickaboom_46 Start: 30037, Stop: 31356, Start Num: 69
Candidate Starts for Chickaboom_46:
(2, 29689), (Start: 65 @30028 has 4 MA's), (Start: 69 @30037 has 42 MA's), (92, 30133), (105, 30193), (121, 30247), (125, 30271), (130, 30286), (133, 30307), (140, 30364), (144, 30412), (150, 30463), (163, 30514), (194, 30604), (202, 30643), (232, 30715), (280, 30865), (341, 30994), (377, 31033), (379, 31066), (382, 31111), (390, 31153), (397, 31195), (399, 31228), (416, 31330),

Gene: Chicken_44 Start: 30485, Stop: 31816, Start Num: 65
Candidate Starts for Chicken_44:
(Start: 65 @30485 has 4 MA's), (Start: 69 @30494 has 42 MA's), (92, 30590), (102, 30638), (105, 30650), (121, 30704), (125, 30728), (130, 30743), (133, 30764), (140, 30821), (144, 30869), (150, 30920), (163, 30971), (194, 31061), (202, 31100), (270, 31259), (377, 31493), (379, 31526), (382, 31571), (390, 31613), (396, 31652), (399, 31688), (416, 31790), (420, 31811),

Gene: ChickenDinner_76 Start: 46995, Stop: 48449, Start Num: 31
Candidate Starts for ChickenDinner_76:
(Start: 31 @46995 has 2 MA's), (38, 47025), (46, 47055), (56, 47091), (64, 47124), (119, 47355), (229, 47634), (Start: 279 @47754 has 1 MA's), (280, 47757), (284, 47784), (285, 47796), (307, 47886), (335, 47958), (342, 47985), (372, 48087), (379, 48144), (390, 48246), (393, 48258), (395, 48267), (397, 48288),

Gene: ChosenOne_99 Start: 58035, Stop: 59108, Start Num: 78
Candidate Starts for ChosenOne_99:

(32, 57888), (43, 57918), (55, 57966), (58, 57981), (Start: 61 @57993 has 1 MA's), (Start: 78 @58035 has 73 MA's), (84, 58053), (Start: 97 @58149 has 2 MA's), (119, 58194), (141, 58278), (157, 58401), (Start: 279 @58455 has 1 MA's), (284, 58485), (289, 58521), (342, 58668), (365, 58770), (390, 58929), (397, 58971), (399, 59004), (402, 59019),

Gene: ChotaBhai_99 Start: 58278, Stop: 59519, Start Num: 78
Candidate Starts for ChotaBhai_99:
(32, 58131), (43, 58161), (55, 58209), (58, 58224), (Start: 61 @58236 has 1 MA's), (Start: 78 @58278 has 73 MA's), (84, 58296), (Start: 97 @58392 has 2 MA's), (119, 58437), (141, 58521), (176, 58644), (241, 58731), (244, 58737), (Start: 279 @58827 has 1 MA's), (284, 58857), (285, 58869), (306, 58956), (342, 59061), (356, 59124), (379, 59238), (397, 59382), (399, 59415),

Gene: Cjw1_100 Start: 60418, Stop: 61113, Start Num: 279
Candidate Starts for Cjw1_100:
(Start: 279 @60418 has 1 MA's), (283, 60439), (284, 60448), (289, 60484), (306, 60547), (341, 60649), (342, 60652), (356, 60715), (390, 60934), (397, 60976), (399, 61009), (402, 61024),

Gene: Clown_11 Start: 6462, Stop: 7739, Start Num: 97
Candidate Starts for Clown_11:
(Start: 97 @6462 has 2 MA's), (109, 6525), (124, 6591), (146, 6762), (149, 6795), (199, 6921), (250, 7068), (261, 7092), (288, 7215), (316, 7284), (329, 7317), (332, 7329), (347, 7404), (385, 7503), (387, 7518), (390, 7536), (397, 7578), (414, 7710),

Gene: Colusalem_46 Start: 28508, Stop: 29911, Start Num: 69
Candidate Starts for Colusalem_46:
(5, 28247), (22, 28373), (Start: 69 @28508 has 42 MA's), (83, 28538), (87, 28568), (89, 28580), (92, 28604), (102, 28652), (121, 28718), (125, 28742), (130, 28757), (140, 28835), (144, 28883), (150, 28934), (164, 28994), (194, 29075), (202, 29114), (270, 29273), (278, 29330), (280, 29336), (285, 29375), (320, 29483), (326, 29498), (341, 29549), (379, 29621), (390, 29708), (396, 29747), (397, 29750), (407, 29816), (416, 29885),

Gene: Contagion_95 Start: 58156, Stop: 59268, Start Num: 78
Candidate Starts for Contagion_95:
(32, 58009), (43, 58039), (55, 58087), (58, 58102), (Start: 61 @58114 has 1 MA's), (Start: 78 @58156 has 73 MA's), (84, 58174), (Start: 97 @58270 has 2 MA's), (119, 58315), (141, 58399), (174, 58522), (196, 58567), (224, 58579), (Start: 279 @58684 has 1 MA's), (284, 58714), (289, 58750), (379, 58987), (390, 59089), (397, 59131), (399, 59164), (402, 59179),

Gene: Cookies_96 Start: 58135, Stop: 59445, Start Num: 78
Candidate Starts for Cookies_96:
(32, 57988), (43, 58018), (55, 58066), (58, 58081), (Start: 61 @58093 has 1 MA's), (Start: 78 @58135 has 73 MA's), (84, 58153), (Start: 97 @58249 has 2 MA's), (119, 58294), (141, 58378), (156, 58495), (170, 58549), (183, 58576), (255, 58753), (Start: 279 @58861 has 1 MA's), (283, 58882), (284, 58891), (289, 58927), (341, 58981), (342, 58984), (379, 59164), (397, 59308), (399, 59341),

Gene: Coral_45 Start: 28399, Stop: 29802, Start Num: 69
Candidate Starts for Coral_45:
(Start: 65 @28390 has 4 MA's), (Start: 69 @28399 has 42 MA's), (87, 28459), (91, 28486), (92, 28495), (102, 28543), (105, 28555), (121, 28609), (125, 28633), (128, 28642), (130, 28648), (135, 28690), (140, 28726), (144, 28774), (150, 28825), (164, 28885), (194, 28966), (202, 29005), (270, 29164), (278, 29221), (280, 29227), (285, 29266), (320, 29374), (326, 29389), (341, 29440), (379, 29512), (390, 29599), (396, 29638), (397, 29641), (407, 29707), (416, 29776),

Gene: Cote_47 Start: 28876, Stop: 30279, Start Num: 69
Candidate Starts for Cote_47:
(Start: 65 @28867 has 4 MA's), (Start: 69 @28876 has 42 MA's), (87, 28936), (91, 28963), (92, 28972), (102, 29020), (105, 29032), (121, 29086), (125, 29110), (128, 29119), (130, 29125), (135, 29167), (140, 29203), (144, 29251), (150, 29302), (164, 29362), (194, 29443), (202, 29482), (270, 29641), (278, 29698), (280, 29704), (285, 29743), (320, 29851), (326, 29866), (341, 29917), (379, 29989), (390, 30076), (396, 30115), (397, 30118), (407, 30184), (416, 30253),

Gene: CrystalP_98 Start: 58977, Stop: 60200, Start Num: 78
Candidate Starts for CrystalP_98:
(32, 58830), (43, 58860), (55, 58908), (58, 58923), (Start: 61 @58935 has 1 MA's), (Start: 78 @58977 has 73 MA's), (84, 58995), (Start: 97 @59091 has 2 MA's), (119, 59136), (141, 59220), (176, 59343), (226, 59388), (237, 59400), (Start: 279 @59505 has 1 MA's), (283, 59526), (284, 59535), (289, 59571), (306, 59634), (341, 59736), (342, 59739), (356, 59802), (390, 60021), (397, 60063), (399, 60096), (402, 60111),

Gene: Cygnet_47 Start: 30311, Stop: 31729, Start Num: 68
Candidate Starts for Cygnet_47:
(Start: 68 @30311 has 21 MA's), (92, 30407), (102, 30455), (105, 30467), (121, 30521), (125, 30545), (140, 30638), (144, 30686), (146, 30692), (150, 30737), (194, 30878), (208, 30941), (232, 30989), (280, 31142), (282, 31157), (285, 31181), (341, 31364), (382, 31484), (390, 31526), (395, 31547), (397, 31568), (401, 31613), (407, 31634), (416, 31703), (418, 31712),

Gene: DLane_70 Start: 45071, Stop: 46330, Start Num: 70
Candidate Starts for DLane_70:
(58, 45047), (Start: 70 @45071 has 11 MA's), (75, 45077), (87, 45131), (92, 45167), (Start: 97 @45200 has 2 MA's), (119, 45245), (141, 45329), (168, 45455), (Start: 279 @45626 has 1 MA's), (283, 45647), (284, 45656), (285, 45668), (291, 45713), (323, 45785), (341, 45854), (342, 45857), (353, 45920), (379, 46037), (390, 46124), (393, 46136), (396, 46163),

Gene: DS6A_73 Start: 47459, Stop: 48829, Start Num: 74
Candidate Starts for DS6A_73:
(Start: 74 @47459 has 1 MA's), (83, 47483), (88, 47516), (Start: 97 @47582 has 2 MA's), (108, 47648), (144, 47882), (150, 47933), (194, 48065), (205, 48113), (236, 48188), (Start: 279 @48323 has 1 MA's), (280, 48326), (282, 48341), (385, 48593), (386, 48596), (390, 48626), (393, 48638), (394, 48644), (395, 48647), (397, 48668), (406, 48731),

Gene: Daenerys_61 Start: 41682, Stop: 43196, Start Num: 73
Candidate Starts for Daenerys_61:
(16, 41505), (Start: 73 @41682 has 29 MA's), (87, 41739), (92, 41775), (Start: 97 @41808 has 2 MA's), (129, 42030), (133, 42072), (Start: 147 @42198 has 1 MA's), (149, 42216), (162, 42276), (181, 42318), (187, 42330), (213, 42423), (220, 42447), (243, 42507), (Start: 279 @42630 has 1 MA's), (283, 42651), (284, 42660), (303, 42753), (355, 42933), (379, 43053), (384, 43113), (390, 43146), (392, 43155), (393, 43158),

Gene: Damocles_49 Start: 28697, Stop: 30070, Start Num: 83
Candidate Starts for Damocles_49:
(5, 28406), (22, 28532), (Start: 69 @28667 has 42 MA's), (83, 28697), (87, 28727), (89, 28739), (92, 28763), (102, 28811), (121, 28877), (125, 28901), (130, 28916), (140, 28994), (144, 29042), (150, 29093), (164, 29153), (194, 29234), (202, 29273), (270, 29432), (278, 29489), (280, 29495), (285, 29534), (320, 29642), (326, 29657), (341, 29708), (379, 29780), (390, 29867), (396, 29906), (397, 29909), (407, 29975), (416, 30044),

Gene: DanHam62_47 Start: 29583, Stop: 30986, Start Num: 68
Candidate Starts for DanHam62_47:
(Start: 68 @29583 has 21 MA's), (91, 29670), (102, 29727), (105, 29739), (121, 29793), (125, 29817), (140, 29910), (144, 29958), (146, 29964), (149, 29997), (150, 30009), (194, 30150), (270, 30348), (278, 30405), (280, 30411), (320, 30558), (326, 30573), (333, 30603), (341, 30624), (382, 30741), (385, 30750), (390, 30783), (396, 30822), (397, 30825), (401, 30870), (407, 30891), (416, 30960), (420, 30981),

Gene: Daob_47 Start: 28875, Stop: 30287, Start Num: 65
Candidate Starts for Daob_47:
(Start: 65 @28875 has 4 MA's), (Start: 69 @28884 has 42 MA's), (87, 28944), (91, 28971), (92, 28980), (102, 29028), (121, 29094), (125, 29118), (128, 29127), (130, 29133), (135, 29175), (140, 29211), (144, 29259), (150, 29310), (164, 29370), (194, 29451), (202, 29490), (270, 29649), (278, 29706), (280, 29712), (285, 29751), (320, 29859), (326, 29874), (341, 29925), (379, 29997), (390, 30084), (396, 30123), (407, 30192), (416, 30261),

Gene: Donovan_57 Start: 37840, Stop: 39126, Start Num: 34
Candidate Starts for Donovan_57:
(19, 37789), (28, 37804), (Start: 34 @37840 has 7 MA's), (Start: 62 @37933 has 1 MA's), (Start: 69 @37951 has 42 MA's), (86, 37987), (87, 38011), (92, 38047), (Start: 97 @38080 has 2 MA's), (113, 38170), (120, 38197), (132, 38260), (133, 38266), (134, 38269), (135, 38287), (136, 38290), (173, 38452), (230, 38494), (Start: 279 @38617 has 1 MA's), (284, 38647), (285, 38659), (286, 38662), (289, 38683), (297, 38716), (298, 38722), (319, 38752), (322, 38758), (342, 38824), (368, 38926), (379, 38983), (381, 39028), (384, 39043), (390, 39076), (392, 39085), (393, 39088),

Gene: Doomslug_89 Start: 47748, Stop: 49190, Start Num: 59
Candidate Starts for Doomslug_89:
(59, 47748), (Start: 70 @47781 has 11 MA's), (83, 47811), (87, 47841), (Start: 97 @47910 has 2 MA's), (132, 48087), (133, 48093), (134, 48096), (135, 48114), (136, 48117), (Start: 147 @48219 has 1 MA's), (149, 48237), (176, 48279), (245, 48366), (248, 48372), (Start: 279 @48462 has 1 MA's), (283, 48483), (284, 48492), (324, 48630), (341, 48693), (342, 48696), (360, 48774), (379, 48882), (387, 48966), (390, 48984), (393, 48996), (395, 49005), (396, 49023),

Gene: DrDrey_99 Start: 59457, Stop: 60938, Start Num: 78
Candidate Starts for DrDrey_99:
(32, 59310), (43, 59340), (55, 59388), (58, 59403), (Start: 61 @59415 has 1 MA's), (Start: 78 @59457 has 73 MA's), (84, 59475), (Start: 97 @59571 has 2 MA's), (119, 59616), (149, 59781), (192, 59931), (202, 59979), (211, 60015), (234, 60084), (243, 60105), (252, 60123), (Start: 279 @60246 has 1 MA's), (283, 60267), (284, 60276), (285, 60288), (289, 60312), (379, 60657), (386, 60729), (390, 60759), (397, 60801), (399, 60834), (402, 60849),

Gene: Duke13_147 Start: 77664, Stop: 78977, Start Num: 79
Candidate Starts for Duke13_147:
(Start: 79 @77664 has 53 MA's), (Start: 97 @77772 has 2 MA's), (119, 77817), (135, 77859), (136, 77862), (141, 77901), (149, 77982), (185, 78120), (206, 78192), (Start: 279 @78438 has 1 MA's), (284, 78468), (285, 78480), (305, 78546), (374, 78657), (379, 78699), (387, 78783), (388, 78792), (390, 78801), (395, 78822), (396, 78840), (399, 78876),

Gene: Dulcie_59 Start: 40714, Stop: 39728, Start Num: 79
Candidate Starts for Dulcie_59:
(Start: 79 @40714 has 53 MA's), (Start: 97 @40606 has 2 MA's), (148, 40561), (198, 40477), (227, 40396), (268, 40354), (Start: 279 @40300 has 1 MA's), (283, 40279), (284, 40270), (289, 40234), (379, 39991), (390, 39904), (397, 39862), (399, 39829),

Gene: Dumbo_99 Start: 58258, Stop: 59496, Start Num: 78
Candidate Starts for Dumbo_99:
(32, 58111), (43, 58141), (55, 58189), (58, 58204), (Start: 61 @58216 has 1 MA's), (Start: 78 @58258 has 73 MA's), (84, 58276), (Start: 97 @58372 has 2 MA's), (119, 58417), (141, 58501), (176, 58624), (Start: 279 @58795 has 1 MA's), (284, 58825), (306, 58924), (341, 59026), (342, 59029), (379, 59215), (390, 59317), (397, 59359), (399, 59392), (402, 59407),

Gene: Dusk_96 Start: 58240, Stop: 59460, Start Num: 78
Candidate Starts for Dusk_96:
(32, 58093), (43, 58123), (55, 58171), (58, 58186), (Start: 61 @58198 has 1 MA's), (Start: 78 @58240 has 73 MA's), (84, 58258), (Start: 97 @58354 has 2 MA's), (119, 58399), (141, 58483), (157, 58606), (188, 58651), (203, 58663), (Start: 279 @58768 has 1 MA's), (283, 58789), (284, 58798), (285, 58810), (289, 58834), (379, 59179), (386, 59251), (390, 59281), (397, 59323), (399, 59356), (402, 59371),

Gene: Dynamo_53 Start: 36425, Stop: 37618, Start Num: 73
Candidate Starts for Dynamo_53:
(1, 35990), (54, 36362), (Start: 73 @36425 has 29 MA's), (86, 36458), (87, 36482), (92, 36518), (93, 36521), (Start: 97 @36551 has 2 MA's), (113, 36641), (120, 36668), (132, 36731), (133, 36737), (134, 36740), (135, 36758), (136, 36761), (260, 37004), (262, 37007), (282, 37109), (285, 37133), (297, 37190), (298, 37196), (319, 37226), (322, 37232), (342, 37298), (358, 37361), (379, 37475), (384, 37535), (390, 37568), (392, 37577), (393, 37580),

Gene: Edtherson_58 Start: 40825, Stop: 39680, Start Num: 79
Candidate Starts for Edtherson_58:
(Start: 79 @40825 has 53 MA's), (Start: 97 @40717 has 2 MA's), (119, 40672), (141, 40588), (149, 40507), (173, 40429), (190, 40405), (223, 40354), (Start: 279 @40240 has 1 MA's), (283, 40219), (284, 40210), (289, 40174), (363, 40015), (366, 40012), (379, 39958), (387, 39874), (388, 39865), (390, 39856), (395, 39835),

Gene: Eesa_44 Start: 30907, Stop: 32226, Start Num: 69
Candidate Starts for Eesa_44:
(17, 30748), (27, 30763), (Start: 65 @30898 has 4 MA's), (Start: 69 @30907 has 42 MA's), (92, 31003), (102, 31051), (105, 31063), (121, 31117), (125, 31141), (130, 31156), (133, 31177), (140, 31234), (144, 31282), (150, 31333), (163, 31384), (194, 31474), (209, 31540), (212, 31552), (Start: 279 @31732 has 1 MA's), (282, 31750), (341, 31864), (377, 31903), (379, 31936), (390, 32023), (396, 32062), (397, 32065), (399, 32098), (408, 32137), (409, 32164), (410, 32170), (416, 32200), (420, 32221),

Gene: EleanorGeorge_68 Start: 43670, Stop: 44953, Start Num: 73
Candidate Starts for EleanorGeorge_68:
(Start: 73 @43670 has 29 MA's), (86, 43703), (87, 43727), (Start: 97 @43796 has 2 MA's), (133, 43979), (134, 43982), (135, 44000), (136, 44003), (181, 44222), (216, 44339), (260, 44441), (Start: 279 @44528 has 1 MA's), (284, 44558), (368, 44753), (379, 44810), (383, 44867), (390, 44903),

Gene: Elite2014_98 Start: 58034, Stop: 59107, Start Num: 78
Candidate Starts for Elite2014_98:
(32, 57887), (43, 57917), (55, 57965), (58, 57980), (Start: 61 @57992 has 1 MA's), (Start: 78 @58034 has 73 MA's), (84, 58052), (Start: 97 @58148 has 2 MA's), (119, 58193), (141, 58277), (157, 58400), (Start: 279 @58454 has 1 MA's), (284, 58484), (289, 58520), (342, 58667), (365, 58769), (390, 58928), (397, 58970), (399, 59003), (402, 59018),

Gene: Elph10_99 Start: 57919, Stop: 59142, Start Num: 78

Candidate Starts for Elph10_99:
(32, 57772), (43, 57802), (55, 57850), (58, 57865), (Start: 61 @57877 has 1 MA's), (Start: 78 @57919 has 73 MA's), (84, 57937), (Start: 97 @58033 has 2 MA's), (119, 58078), (141, 58162), (176, 58285), (226, 58330), (237, 58342), (Start: 279 @58447 has 1 MA's), (283, 58468), (284, 58477), (289, 58513), (306, 58576), (341, 58678), (342, 58681), (356, 58744), (390, 58963), (397, 59005), (399, 59038), (402, 59053),

Gene: EmiRose_39 Start: 33923, Stop: 32721, Start Num: 62
Candidate Starts for EmiRose_39:
(47, 33983), (51, 33965), (Start: 62 @33923 has 1 MA's), (89, 33830), (108, 33713), (117, 33692), (136, 33608), (140, 33575), (141, 33569), (142, 33563), (143, 33542), (284, 33368), (285, 33356), (286, 33353), (289, 33332), (348, 33152), (371, 33065), (385, 32939), (390, 32906), (393, 32894), (397, 32864), (403, 32807), (412, 32738), (415, 32729),

Gene: Emmina_99 Start: 57618, Stop: 58883, Start Num: 61
Candidate Starts for Emmina_99:
(32, 57513), (43, 57543), (55, 57591), (58, 57606), (Start: 61 @57618 has 1 MA's), (Start: 78 @57660 has 73 MA's), (84, 57678), (Start: 97 @57774 has 2 MA's), (119, 57819), (141, 57903), (176, 58026), (226, 58071), (237, 58083), (Start: 279 @58188 has 1 MA's), (283, 58209), (284, 58218), (289, 58254), (306, 58317), (341, 58419), (342, 58422), (356, 58485), (390, 58704), (397, 58746), (399, 58779), (402, 58794),

Gene: EricMillard_143 Start: 79016, Stop: 80329, Start Num: 79
Candidate Starts for EricMillard_143:
(Start: 79 @79016 has 53 MA's), (Start: 97 @79124 has 2 MA's), (119, 79169), (135, 79211), (136, 79214), (141, 79253), (149, 79334), (185, 79472), (206, 79544), (Start: 279 @79790 has 1 MA's), (284, 79820), (285, 79832), (305, 79898), (374, 80009), (379, 80051), (387, 80135), (388, 80144), (390, 80153), (395, 80174), (396, 80192), (399, 80228),

Gene: Etoile_57 Start: 37732, Stop: 38952, Start Num: 69
Candidate Starts for Etoile_57:
(36, 37630), (40, 37639), (Start: 69 @37732 has 42 MA's), (86, 37768), (87, 37792), (Start: 97 @37861 has 2 MA's), (133, 38044), (134, 38047), (135, 38065), (136, 38068), (173, 38230), (230, 38272), (Start: 279 @38395 has 1 MA's), (284, 38425), (285, 38437), (309, 38524), (341, 38626), (342, 38629), (354, 38692), (379, 38809), (381, 38854), (384, 38869), (390, 38902), (392, 38911), (393, 38914),

Gene: Eureka_98 Start: 58947, Stop: 60071, Start Num: 78
Candidate Starts for Eureka_98:
(32, 58800), (43, 58830), (55, 58878), (58, 58893), (Start: 61 @58905 has 1 MA's), (Start: 78 @58947 has 73 MA's), (84, 58965), (Start: 97 @59061 has 2 MA's), (119, 59106), (226, 59355), (Start: 279 @59475 has 1 MA's), (284, 59505), (285, 59517), (289, 59541), (291, 59562), (339, 59619), (362, 59709), (379, 59790), (390, 59892), (397, 59934), (399, 59967), (402, 59982),

Gene: Eyeball_60 Start: 40995, Stop: 39775, Start Num: 79
Candidate Starts for Eyeball_60:
(Start: 79 @40995 has 53 MA's), (Start: 97 @40887 has 2 MA's), (119, 40842), (140, 40764), (141, 40758), (157, 40635), (173, 40599), (Start: 279 @40452 has 1 MA's), (284, 40422), (289, 40386), (314, 40308), (325, 40281), (327, 40275), (341, 40215), (370, 40110), (379, 40053), (387, 39969), (388, 39960), (390, 39951), (395, 39930), (396, 39912), (399, 39876),

Gene: FairyPath_100 Start: 59153, Stop: 60376, Start Num: 78
Candidate Starts for FairyPath_100:

(32, 59006), (43, 59036), (55, 59084), (58, 59099), (Start: 61 @59111 has 1 MA's), (Start: 78 @59153 has 73 MA's), (84, 59171), (Start: 97 @59267 has 2 MA's), (119, 59312), (141, 59396), (157, 59519), (188, 59564), (203, 59576), (Start: 279 @59681 has 1 MA's), (284, 59711), (341, 59906), (342, 59909), (360, 59987), (379, 60095), (390, 60197), (397, 60239), (399, 60272), (402, 60287),

Gene: Filch_101 Start: 58232, Stop: 59455, Start Num: 78
Candidate Starts for Filch_101:
(32, 58085), (43, 58115), (55, 58163), (58, 58178), (Start: 61 @58190 has 1 MA's), (Start: 78 @58232 has 73 MA's), (84, 58250), (Start: 97 @58346 has 2 MA's), (119, 58391), (141, 58475), (176, 58598), (226, 58643), (237, 58655), (Start: 279 @58760 has 1 MA's), (283, 58781), (284, 58790), (289, 58826), (306, 58889), (341, 58991), (342, 58994), (356, 59057), (390, 59276), (397, 59318), (399, 59351), (402, 59366),

Gene: Fingolfin_47 Start: 29586, Stop: 30989, Start Num: 68
Candidate Starts for Fingolfin_47:
(Start: 68 @29586 has 21 MA's), (91, 29673), (92, 29682), (102, 29730), (105, 29742), (121, 29796), (125, 29820), (140, 29913), (144, 29961), (146, 29967), (149, 30000), (150, 30012), (184, 30135), (194, 30153), (270, 30351), (278, 30408), (280, 30414), (320, 30561), (326, 30576), (333, 30606), (341, 30627), (382, 30744), (385, 30753), (390, 30786), (396, 30825), (397, 30828), (401, 30873), (407, 30894), (416, 30963), (420, 30984),

Gene: FireRed_102 Start: 59115, Stop: 60347, Start Num: 78
Candidate Starts for FireRed_102:
(32, 58968), (43, 58998), (55, 59046), (58, 59061), (Start: 61 @59073 has 1 MA's), (Start: 78 @59115 has 73 MA's), (84, 59133), (Start: 97 @59229 has 2 MA's), (119, 59274), (141, 59358), (176, 59481), (249, 59565), (284, 59682), (289, 59718), (306, 59781), (341, 59883), (342, 59886), (356, 59949), (390, 60168), (397, 60210), (399, 60243), (402, 60258),

Gene: Fishburne_57 Start: 37732, Stop: 38952, Start Num: 69
Candidate Starts for Fishburne_57:
(36, 37630), (40, 37639), (Start: 69 @37732 has 42 MA's), (86, 37768), (87, 37792), (Start: 97 @37861 has 2 MA's), (133, 38044), (134, 38047), (135, 38065), (136, 38068), (173, 38230), (230, 38272), (Start: 279 @38395 has 1 MA's), (284, 38425), (285, 38437), (309, 38524), (341, 38626), (342, 38629), (354, 38692), (379, 38809), (381, 38854), (384, 38869), (390, 38902), (392, 38911), (393, 38914),

Gene: Florinda_85 Start: 47777, Stop: 49225, Start Num: 70
Candidate Starts for Florinda_85:
(58, 47753), (Start: 70 @47777 has 11 MA's), (75, 47783), (87, 47837), (92, 47873), (Start: 97 @47906 has 2 MA's), (119, 47951), (141, 48035), (158, 48152), (171, 48206), (186, 48233), (239, 48410), (Start: 279 @48518 has 1 MA's), (280, 48521), (285, 48560), (313, 48662), (318, 48668), (341, 48743), (342, 48746), (379, 48932), (390, 49019), (393, 49031), (395, 49040), (397, 49061), (411, 49175),

Gene: GMonster_56 Start: 39824, Stop: 38382, Start Num: 79
Candidate Starts for GMonster_56:
(Start: 79 @39824 has 53 MA's), (93, 39746), (Start: 97 @39716 has 2 MA's), (175, 39278), (182, 39263), (215, 39152), (268, 39017), (Start: 279 @38933 has 1 MA's), (283, 38912), (284, 38903), (324, 38765), (341, 38702), (342, 38699), (388, 38567), (390, 38558), (397, 38516), (399, 38483),

Gene: Gachnar_58 Start: 39952, Stop: 39239, Start Num: 133
Candidate Starts for Gachnar_58:
(80, 40234), (82, 40228), (87, 40198), (89, 40186), (Start: 97 @40129 has 2 MA's), (116, 40045), (133, 39952), (135, 39931), (142, 39883), (149, 39808), (285, 39670), (341, 39580), (342, 39577), (385, 39454), (387, 39439), (389, 39424), (390, 39421), (396, 39382), (412, 39253),

Gene: Galaxy_43 Start: 28676, Stop: 29995, Start Num: 69
Candidate Starts for Galaxy_43:
(14, 28526), (Start: 65 @28667 has 4 MA's), (Start: 69 @28676 has 42 MA's), (92, 28772), (102, 28820), (105, 28832), (121, 28886), (125, 28910), (130, 28925), (140, 29003), (144, 29051), (150, 29102), (164, 29162), (194, 29243), (202, 29282), (278, 29498), (280, 29504), (282, 29519), (342, 29636), (377, 29672), (379, 29705), (390, 29792), (394, 29810), (416, 29969),

Gene: GaloreK_61 Start: 39256, Stop: 40605, Start Num: 69
Candidate Starts for GaloreK_61:
(36, 39154), (40, 39163), (Start: 69 @39256 has 42 MA's), (86, 39292), (87, 39316), (92, 39352), (Start: 97 @39385 has 2 MA's), (113, 39475), (132, 39544), (133, 39550), (134, 39553), (135, 39571), (136, 39574), (173, 39736), (230, 39778), (Start: 279 @39901 has 1 MA's), (283, 39922), (284, 39931), (289, 39967), (309, 40030), (341, 40132), (342, 40135), (358, 40198), (379, 40312), (390, 40399), (393, 40411), (395, 40420), (411, 40555),

Gene: Girafales_82 Start: 47568, Stop: 48830, Start Num: 70
Candidate Starts for Girafales_82:
(58, 47544), (Start: 70 @47568 has 11 MA's), (75, 47574), (87, 47628), (92, 47664), (Start: 97 @47697 has 2 MA's), (119, 47742), (140, 47820), (141, 47826), (Start: 147 @47889 has 1 MA's), (149, 47907), (168, 47952), (195, 47982), (Start: 279 @48123 has 1 MA's), (284, 48153), (285, 48165), (313, 48267), (318, 48273), (341, 48348), (342, 48351), (379, 48537), (390, 48624), (393, 48636), (395, 48645), (397, 48666), (411, 48780),

Gene: Glotell_48 Start: 29631, Stop: 31034, Start Num: 68
Candidate Starts for Glotell_48:
(Start: 68 @29631 has 21 MA's), (91, 29718), (92, 29727), (102, 29775), (105, 29787), (121, 29841), (125, 29865), (140, 29958), (144, 30006), (146, 30012), (149, 30045), (150, 30057), (184, 30180), (194, 30198), (278, 30453), (280, 30459), (320, 30606), (326, 30621), (333, 30651), (341, 30672), (342, 30675), (382, 30789), (385, 30798), (390, 30831), (396, 30870), (397, 30873), (401, 30918), (407, 30939), (416, 31008), (420, 31029),

Gene: Goku_98 Start: 58676, Stop: 59800, Start Num: 78
Candidate Starts for Goku_98:
(32, 58529), (43, 58559), (55, 58607), (58, 58622), (Start: 61 @58634 has 1 MA's), (Start: 78 @58676 has 73 MA's), (84, 58694), (Start: 97 @58790 has 2 MA's), (119, 58835), (226, 59084), (Start: 279 @59204 has 1 MA's), (284, 59234), (285, 59246), (289, 59270), (291, 59291), (339, 59348), (362, 59438), (379, 59519), (390, 59621), (397, 59663), (399, 59696), (402, 59711),

Gene: Goldilocks_102 Start: 57898, Stop: 59382, Start Num: 78
Candidate Starts for Goldilocks_102:
(32, 57751), (43, 57781), (55, 57829), (58, 57844), (Start: 61 @57856 has 1 MA's), (Start: 78 @57898 has 73 MA's), (84, 57916), (Start: 97 @58012 has 2 MA's), (119, 58057), (141, 58141), (192, 58372), (202, 58420), (211, 58456), (243, 58546), (252, 58564), (Start: 279 @58687 has 1 MA's), (283, 58708), (284, 58717), (289, 58753), (341, 58912), (342, 58915), (390, 59203), (397, 59245), (399, 59278), (402, 59293),

Gene: Gompeii16_58 Start: 41983, Stop: 40607, Start Num: 79
Candidate Starts for Gompeii16_58:
(Start: 79 @41983 has 53 MA's), (Start: 97 @41875 has 2 MA's), (119, 41830), (141, 41746), (149, 41665), (179, 41560), (197, 41524), (216, 41455), (233, 41407), (251, 41374), (263, 41347), (280, 41251), (284, 41224), (285, 41212), (341, 41047), (342, 41044), (370, 40942), (379, 40885), (387, 40801), (388, 40792), (390, 40783), (395, 40762), (396, 40744), (399, 40708),

Gene: GramZayde_47 Start: 28703, Stop: 30115, Start Num: 65
Candidate Starts for GramZayde_47:
(Start: 65 @28703 has 4 MA's), (Start: 69 @28712 has 42 MA's), (87, 28772), (91, 28799), (92, 28808), (102, 28856), (105, 28868), (121, 28922), (125, 28946), (128, 28955), (130, 28961), (135, 29003), (140, 29039), (144, 29087), (150, 29138), (164, 29198), (194, 29279), (202, 29318), (270, 29477), (278, 29534), (280, 29540), (285, 29579), (320, 29687), (326, 29702), (341, 29753), (379, 29825), (390, 29912), (396, 29951), (397, 29954), (407, 30020), (416, 30089),

Gene: Gravel_54 Start: 30988, Stop: 32316, Start Num: 65
Candidate Starts for Gravel_54:
(17, 30838), (27, 30853), (Start: 65 @30988 has 4 MA's), (Start: 69 @30997 has 42 MA's), (92, 31093), (102, 31141), (105, 31153), (121, 31207), (125, 31231), (130, 31246), (133, 31267), (140, 31324), (144, 31372), (150, 31423), (163, 31474), (194, 31564), (212, 31642), (282, 31840), (341, 31954), (377, 31993), (379, 32026), (390, 32113), (397, 32155), (399, 32188), (408, 32227), (409, 32254), (410, 32260), (416, 32290), (420, 32311),

Gene: GreaseLightnin_59 Start: 38734, Stop: 39948, Start Num: 69
Candidate Starts for GreaseLightnin_59:
(36, 38632), (40, 38641), (49, 38668), (Start: 69 @38734 has 42 MA's), (87, 38794), (92, 38830), (Start: 97 @38863 has 2 MA's), (106, 38929), (135, 39079), (146, 39169), (149, 39202), (Start: 279 @39409 has 1 MA's), (284, 39439), (285, 39451), (342, 39625), (354, 39688), (379, 39805), (384, 39865), (390, 39898), (392, 39907), (393, 39910),

Gene: Greep_103 Start: 59814, Stop: 61037, Start Num: 78
Candidate Starts for Greep_103:
(32, 59667), (43, 59697), (55, 59745), (58, 59760), (Start: 61 @59772 has 1 MA's), (Start: 78 @59814 has 73 MA's), (84, 59832), (Start: 97 @59928 has 2 MA's), (119, 59973), (141, 60057), (176, 60180), (226, 60225), (237, 60237), (Start: 279 @60342 has 1 MA's), (283, 60363), (284, 60372), (289, 60408), (306, 60471), (341, 60573), (342, 60576), (356, 60639), (390, 60858), (397, 60900), (399, 60933), (402, 60948),

Gene: Grimmer_73 Start: 44215, Stop: 45450, Start Num: 73
Candidate Starts for Grimmer_73:
(12, 44038), (13, 44044), (18, 44053), (23, 44062), (Start: 73 @44215 has 29 MA's), (87, 44272), (Start: 97 @44341 has 2 MA's), (132, 44401), (133, 44407), (134, 44410), (Start: 147 @44533 has 1 MA's), (278, 44755), (Start: 279 @44758 has 1 MA's), (284, 44788), (285, 44800), (286, 44803), (342, 44974), (356, 45040), (379, 45160), (390, 45247), (393, 45259), (397, 45289),

Gene: HUHilltop_55 Start: 36648, Stop: 37841, Start Num: 73
Candidate Starts for HUHilltop_55:
(1, 36213), (54, 36585), (Start: 73 @36648 has 29 MA's), (86, 36681), (87, 36705), (92, 36741), (93, 36744), (Start: 97 @36774 has 2 MA's), (113, 36864), (120, 36891), (132, 36954), (133, 36960), (134, 36963), (135, 36981), (136, 36984), (260, 37227), (262, 37230), (282, 37332), (285, 37356), (297, 37413), (298, 37419), (319, 37449), (322, 37455), (342, 37521), (358, 37584), (379, 37698), (384, 37758), (390, 37791), (392, 37800), (393, 37803),

Gene: HamCheese_47 Start: 29570, Stop: 30973, Start Num: 68
Candidate Starts for HamCheese_47:
(Start: 68 @29570 has 21 MA's), (91, 29657), (92, 29666), (105, 29726), (121, 29780), (125, 29804), (140, 29897), (144, 29945), (146, 29951), (149, 29984), (150, 29996), (194, 30137), (270, 30335), (278, 30392), (280, 30398), (320, 30545), (326, 30560), (333, 30590), (341, 30611), (382, 30728), (385, 30737), (390, 30770), (396, 30809), (397, 30812), (401, 30857), (407, 30878), (416, 30947),

(420, 30968),

Gene: Hami1_54 Start: 36085, Stop: 34859, Start Num: 33
Candidate Starts for Hami1_54:
(Start: 33 @36085 has 6 MA's), (64, 35977), (119, 35746), (Start: 279 @35344 has 1 MA's), (284, 35314), (289, 35278), (342, 35191), (379, 35137), (390, 35035), (397, 34993), (399, 34960),

Gene: HanKaySha_100 Start: 58428, Stop: 59852, Start Num: 78
Candidate Starts for HanKaySha_100:
(32, 58281), (43, 58311), (55, 58359), (58, 58374), (Start: 61 @58386 has 1 MA's), (Start: 78 @58428 has 73 MA's), (84, 58446), (Start: 97 @58542 has 2 MA's), (119, 58587), (141, 58671), (176, 58851), (222, 58968), (265, 59070), (Start: 279 @59157 has 1 MA's), (284, 59187), (341, 59382), (342, 59385), (390, 59673), (397, 59715), (399, 59748), (402, 59763),

Gene: HannahPhantana_46 Start: 28526, Stop: 29929, Start Num: 69
Candidate Starts for HannahPhantana_46:
(5, 28265), (22, 28391), (Start: 69 @28526 has 42 MA's), (83, 28556), (87, 28586), (91, 28613), (92, 28622), (102, 28670), (105, 28682), (121, 28736), (125, 28760), (128, 28769), (130, 28775), (135, 28817), (140, 28853), (144, 28901), (150, 28952), (164, 29012), (194, 29093), (202, 29132), (270, 29291), (278, 29348), (280, 29354), (285, 29393), (320, 29501), (326, 29516), (341, 29567), (379, 29639), (390, 29726), (396, 29765), (397, 29768), (407, 29834), (416, 29903),

Gene: Harley_68 Start: 43294, Stop: 44805, Start Num: 73
Candidate Starts for Harley_68:
(15, 43117), (20, 43123), (26, 43132), (Start: 73 @43294 has 29 MA's), (87, 43351), (92, 43387), (Start: 97 @43420 has 2 MA's), (129, 43642), (133, 43684), (Start: 147 @43810 has 1 MA's), (149, 43828), (162, 43888), (181, 43930), (187, 43942), (213, 44035), (220, 44059), (243, 44119), (Start: 279 @44242 has 1 MA's), (283, 44263), (284, 44272), (289, 44308), (326, 44410), (341, 44473), (342, 44476), (379, 44662), (384, 44722), (390, 44755), (392, 44764), (393, 44767),

Gene: HarryOW_58 Start: 40127, Stop: 39003, Start Num: 79
Candidate Starts for HarryOW_58:
(Start: 79 @40127 has 53 MA's), (Start: 97 @40019 has 2 MA's), (119, 39974), (133, 39953), (134, 39950), (141, 39890), (150, 39797), (228, 39680), (Start: 279 @39569 has 1 MA's), (283, 39548), (284, 39539), (312, 39440), (379, 39281), (387, 39197), (388, 39188), (390, 39179), (395, 39158), (396, 39140), (399, 39104),

Gene: Henry_96 Start: 58282, Stop: 59505, Start Num: 78
Candidate Starts for Henry_96:
(32, 58135), (43, 58165), (55, 58213), (58, 58228), (Start: 61 @58240 has 1 MA's), (Start: 78 @58282 has 73 MA's), (84, 58300), (Start: 97 @58396 has 2 MA's), (119, 58441), (141, 58525), (176, 58648), (226, 58693), (237, 58705), (Start: 279 @58810 has 1 MA's), (283, 58831), (284, 58840), (289, 58876), (306, 58939), (341, 59041), (342, 59044), (356, 59107), (390, 59326), (397, 59368), (399, 59401), (402, 59416),

Gene: HermioneGrange_60 Start: 41022, Stop: 39727, Start Num: 79
Candidate Starts for HermioneGrange_60:
(Start: 79 @41022 has 53 MA's), (Start: 97 @40914 has 2 MA's), (151, 40692), (161, 40650), (198, 40587), (268, 40464), (Start: 279 @40410 has 1 MA's), (283, 40389), (284, 40380), (324, 40242), (341, 40179), (342, 40176), (360, 40098), (379, 39990), (390, 39903), (397, 39861), (399, 39828),

Gene: HokkenD_143 Start: 79820, Stop: 81232, Start Num: 79
Candidate Starts for HokkenD_143:

(Start: 79 @79820 has 53 MA's), (Start: 97 @79928 has 2 MA's), (119, 79973), (141, 80057), (170, 80237), (214, 80354), (262, 80456), (Start: 279 @80543 has 1 MA's), (284, 80573), (289, 80609), (329, 80711), (344, 80774), (346, 80777), (373, 80894), (386, 81026), (387, 81038), (388, 81047), (390, 81056), (395, 81077), (396, 81095), (399, 81131),

Gene: Hoonter_102 Start: 58733, Stop: 59956, Start Num: 78
Candidate Starts for Hoonter_102:
(32, 58586), (43, 58616), (55, 58664), (58, 58679), (Start: 61 @58691 has 1 MA's), (Start: 78 @58733 has 73 MA's), (84, 58751), (Start: 97 @58847 has 2 MA's), (119, 58892), (141, 58976), (176, 59099), (226, 59144), (237, 59156), (Start: 279 @59261 has 1 MA's), (283, 59282), (284, 59291), (289, 59327), (306, 59390), (341, 59492), (342, 59495), (356, 59558), (390, 59777), (397, 59819), (399, 59852), (402, 59867),

Gene: Hopey_100 Start: 59239, Stop: 60462, Start Num: 78
Candidate Starts for Hopey_100:
(32, 59092), (43, 59122), (55, 59170), (58, 59185), (Start: 61 @59197 has 1 MA's), (Start: 78 @59239 has 73 MA's), (84, 59257), (Start: 97 @59353 has 2 MA's), (119, 59398), (141, 59482), (176, 59605), (226, 59650), (237, 59662), (Start: 279 @59767 has 1 MA's), (283, 59788), (284, 59797), (289, 59833), (306, 59896), (341, 59998), (342, 60001), (356, 60064), (390, 60283), (397, 60325), (399, 60358), (402, 60373),

Gene: HufflyPuff_101 Start: 59323, Stop: 60573, Start Num: 78
Candidate Starts for HufflyPuff_101:
(32, 59176), (43, 59206), (55, 59254), (58, 59269), (Start: 61 @59281 has 1 MA's), (Start: 78 @59323 has 73 MA's), (84, 59341), (Start: 97 @59437 has 2 MA's), (119, 59482), (141, 59566), (149, 59647), (162, 59710), (185, 59785), (206, 59857), (Start: 279 @60103 has 1 MA's), (284, 60133), (285, 60145), (363, 60235), (366, 60238), (397, 60436), (399, 60469),

Gene: Jamun_44 Start: 30191, Stop: 31510, Start Num: 69
Candidate Starts for Jamun_44:
(58, 30158), (Start: 65 @30182 has 4 MA's), (Start: 69 @30191 has 42 MA's), (101, 30332), (105, 30347), (121, 30401), (125, 30425), (133, 30461), (140, 30518), (144, 30566), (150, 30617), (194, 30758), (202, 30797), (278, 31013), (280, 31019), (341, 31148), (377, 31187), (382, 31265), (390, 31307), (395, 31328), (396, 31346), (397, 31349), (416, 31484),

Gene: Jebeks_54 Start: 35945, Stop: 37138, Start Num: 73
Candidate Starts for Jebeks_54:
(1, 35510), (54, 35882), (Start: 73 @35945 has 29 MA's), (86, 35978), (87, 36002), (92, 36038), (93, 36041), (Start: 97 @36071 has 2 MA's), (113, 36161), (120, 36188), (132, 36251), (133, 36257), (134, 36260), (135, 36278), (136, 36281), (260, 36524), (262, 36527), (282, 36629), (285, 36653), (297, 36710), (298, 36716), (319, 36746), (322, 36752), (342, 36818), (358, 36881), (379, 36995), (384, 37055), (390, 37088), (392, 37097), (393, 37100),

Gene: Jerm2_60 Start: 41277, Stop: 39982, Start Num: 79
Candidate Starts for Jerm2_60:
(Start: 79 @41277 has 53 MA's), (Start: 97 @41169 has 2 MA's), (151, 40947), (161, 40905), (198, 40842), (268, 40719), (Start: 279 @40665 has 1 MA's), (283, 40644), (284, 40635), (324, 40497), (341, 40434), (342, 40431), (360, 40353), (379, 40245), (390, 40158), (397, 40116), (399, 40083),

Gene: Jerole_46 Start: 28650, Stop: 30053, Start Num: 69
Candidate Starts for Jerole_46:
(5, 28389), (22, 28515), (Start: 69 @28650 has 42 MA's), (83, 28680), (87, 28710), (89, 28722), (92, 28746), (102, 28794), (121, 28860), (125, 28884), (130, 28899), (140, 28977), (144, 29025), (150,

29076), (164, 29136), (194, 29217), (202, 29256), (270, 29415), (278, 29472), (280, 29478), (285, 29517), (320, 29625), (326, 29640), (341, 29691), (379, 29763), (390, 29850), (396, 29889), (397, 29892), (407, 29958), (416, 30027),

Gene: Jinkies_15 Start: 10934, Stop: 12199, Start Num: 90
Candidate Starts for Jinkies_15:
(4, 10538), (11, 10643), (Start: 90 @10934 has 1 MA's), (94, 10952), (95, 10967), (99, 11000), (101, 11009), (117, 11066), (149, 11270), (274, 11486), (280, 11513), (282, 11528), (287, 11558), (295, 11603), (341, 11747), (342, 11750), (343, 11753), (379, 11930), (381, 11963), (387, 11987), (390, 12005), (395, 12026), (396, 12044), (397, 12047), (398, 12050),

Gene: JoeyJr_62 Start: 41850, Stop: 43364, Start Num: 73
Candidate Starts for JoeyJr_62:
(16, 41673), (Start: 73 @41850 has 29 MA's), (87, 41907), (92, 41943), (Start: 97 @41976 has 2 MA's), (129, 42198), (133, 42240), (Start: 147 @42366 has 1 MA's), (149, 42384), (162, 42444), (181, 42486), (187, 42498), (213, 42591), (220, 42615), (243, 42675), (Start: 279 @42798 has 1 MA's), (283, 42819), (284, 42828), (303, 42921), (355, 43101), (379, 43221), (384, 43281), (390, 43314), (392, 43323), (393, 43326),

Gene: JuliaChild_60 Start: 40762, Stop: 39722, Start Num: 79
Candidate Starts for JuliaChild_60:
(Start: 79 @40762 has 53 MA's), (Start: 97 @40654 has 2 MA's), (148, 40609), (172, 40567), (180, 40564), (198, 40525), (268, 40402), (Start: 279 @40348 has 1 MA's), (283, 40327), (284, 40318), (324, 40180), (341, 40117), (342, 40114), (360, 40036), (379, 39928), (390, 39841), (400, 39757),

Gene: Juno112_46 Start: 29586, Stop: 30989, Start Num: 68
Candidate Starts for Juno112_46:
(Start: 68 @29586 has 21 MA's), (91, 29673), (92, 29682), (102, 29730), (105, 29742), (121, 29796), (125, 29820), (140, 29913), (144, 29961), (146, 29967), (149, 30000), (150, 30012), (184, 30135), (194, 30153), (270, 30351), (278, 30408), (280, 30414), (320, 30561), (326, 30576), (333, 30606), (341, 30627), (382, 30744), (385, 30753), (390, 30786), (396, 30825), (397, 30828), (401, 30873), (407, 30894), (416, 30963), (420, 30984),

Gene: KHumphrey_47 Start: 29474, Stop: 30877, Start Num: 68
Candidate Starts for KHumphrey_47:
(Start: 68 @29474 has 21 MA's), (91, 29561), (92, 29570), (102, 29618), (105, 29630), (121, 29684), (125, 29708), (140, 29801), (144, 29849), (146, 29855), (149, 29888), (150, 29900), (184, 30023), (194, 30041), (270, 30239), (278, 30296), (280, 30302), (320, 30449), (326, 30464), (333, 30494), (341, 30515), (382, 30632), (385, 30641), (390, 30674), (396, 30713), (397, 30716), (401, 30761), (407, 30782), (416, 30851),

Gene: Kanye_96 Start: 58485, Stop: 59714, Start Num: 78
Candidate Starts for Kanye_96:
(32, 58338), (43, 58368), (55, 58416), (58, 58431), (Start: 61 @58443 has 1 MA's), (Start: 78 @58485 has 73 MA's), (84, 58503), (Start: 97 @58599 has 2 MA's), (119, 58644), (141, 58728), (176, 58851), (226, 58896), (237, 58908), (Start: 279 @59013 has 1 MA's), (283, 59034), (284, 59043), (289, 59079), (328, 59181), (341, 59244), (342, 59247), (361, 59325), (379, 59433), (390, 59535), (397, 59577), (399, 59610), (402, 59625),

Gene: Kari_57 Start: 37729, Stop: 38949, Start Num: 69
Candidate Starts for Kari_57:
(36, 37627), (40, 37636), (Start: 69 @37729 has 42 MA's), (86, 37765), (87, 37789), (Start: 97 @37858 has 2 MA's), (133, 38041), (134, 38044), (135, 38062), (136, 38065), (173, 38227), (230, 38269),

(Start: 279 @38392 has 1 MA's), (284, 38422), (285, 38434), (309, 38521), (341, 38623), (342, 38626), (354, 38689), (379, 38806), (381, 38851), (384, 38866), (390, 38899), (392, 38908), (393, 38911),

Gene: KendraB23_55 Start: 31175, Stop: 32503, Start Num: 65
Candidate Starts for KendraB23_55:
(17, 31025), (27, 31040), (Start: 65 @31175 has 4 MA's), (Start: 69 @31184 has 42 MA's), (92, 31280), (102, 31328), (105, 31340), (121, 31394), (125, 31418), (130, 31433), (133, 31454), (140, 31511), (144, 31559), (150, 31610), (163, 31661), (194, 31751), (209, 31817), (212, 31829), (Start: 279 @32009 has 1 MA's), (282, 32027), (341, 32141), (377, 32180), (379, 32213), (390, 32300), (396, 32339), (397, 32342), (399, 32375), (408, 32414), (409, 32441), (410, 32447), (416, 32477), (420, 32498),

Gene: Kepler_47 Start: 29294, Stop: 30697, Start Num: 69
Candidate Starts for Kepler_47:
(Start: 65 @29285 has 4 MA's), (Start: 69 @29294 has 42 MA's), (87, 29354), (91, 29381), (92, 29390), (102, 29438), (105, 29450), (121, 29504), (125, 29528), (128, 29537), (130, 29543), (135, 29585), (140, 29621), (144, 29669), (150, 29720), (164, 29780), (194, 29861), (202, 29900), (270, 30059), (278, 30116), (280, 30122), (285, 30161), (320, 30269), (326, 30284), (341, 30335), (379, 30407), (390, 30494), (396, 30533), (407, 30602), (416, 30671),

Gene: Kimchi1738_46 Start: 42717, Stop: 41416, Start Num: 77
Candidate Starts for Kimchi1738_46:
(Start: 77 @42717 has 1 MA's), (93, 42636), (98, 42591), (100, 42582), (103, 42567), (108, 42546), (117, 42522), (127, 42483), (132, 42468), (133, 42462), (135, 42441), (137, 42435), (140, 42405), (177, 42276), (235, 42213), (246, 42186), (259, 42159), (274, 42117), (291, 42006), (326, 41928), (341, 41868), (342, 41865), (348, 41838), (351, 41820), (352, 41814), (357, 41796), (376, 41727), (379, 41685), (380, 41643), (385, 41616), (387, 41601), (389, 41586), (390, 41583), (392, 41574), (396, 41544), (397, 41541),

Gene: Klein_148 Start: 78154, Stop: 79467, Start Num: 79
Candidate Starts for Klein_148:
(Start: 79 @78154 has 53 MA's), (Start: 97 @78262 has 2 MA's), (119, 78307), (135, 78349), (136, 78352), (141, 78391), (149, 78472), (185, 78610), (206, 78682), (Start: 279 @78928 has 1 MA's), (284, 78958), (285, 78970), (305, 79036), (374, 79147), (379, 79189), (387, 79273), (388, 79282), (390, 79291), (395, 79312), (396, 79330), (399, 79366),

Gene: Ksquared_56 Start: 38503, Stop: 39714, Start Num: 69
Candidate Starts for Ksquared_56:
(36, 38401), (40, 38410), (49, 38437), (Start: 69 @38503 has 42 MA's), (87, 38563), (92, 38599), (Start: 97 @38632 has 2 MA's), (106, 38698), (135, 38848), (146, 38938), (149, 38971), (Start: 279 @39178 has 1 MA's), (284, 39208), (285, 39220), (342, 39394), (358, 39457), (379, 39571), (384, 39631), (390, 39664), (392, 39673), (393, 39676),

Gene: Kuleana_47 Start: 28864, Stop: 30267, Start Num: 72
Candidate Starts for Kuleana_47:
(63, 28849), (Start: 69 @28861 has 42 MA's), (Start: 72 @28864 has 1 MA's), (87, 28921), (92, 28957), (105, 29017), (121, 29071), (128, 29104), (130, 29110), (140, 29188), (144, 29236), (150, 29287), (164, 29347), (194, 29428), (270, 29629), (278, 29686), (280, 29692), (282, 29707), (320, 29839), (326, 29854), (341, 29905), (342, 29908), (377, 29944), (379, 29977), (385, 30031), (390, 30064), (392, 30073), (395, 30085), (397, 30106), (416, 30241), (418, 30250),

Gene: Kykar_59 Start: 40569, Stop: 39463, Start Num: 79
Candidate Starts for Kykar_59:

(Start: 79 @40569 has 53 MA's), (Start: 97 @40461 has 2 MA's), (119, 40416), (141, 40332), (160, 40209), (166, 40194), (229, 40101), (Start: 279 @40008 has 1 MA's), (284, 39978), (293, 39921), (374, 39768), (379, 39726), (385, 39672), (390, 39639), (399, 39564),

Gene: Langerak_58 Start: 37748, Stop: 38929, Start Num: 69
Candidate Starts for Langerak_58:
(36, 37646), (40, 37655), (Start: 69 @37748 has 42 MA's), (86, 37784), (87, 37808), (92, 37844), (Start: 97 @37877 has 2 MA's), (113, 37967), (132, 38036), (133, 38042), (134, 38045), (135, 38063), (136, 38066), (173, 38228), (230, 38270), (282, 38411), (285, 38435), (309, 38522), (342, 38627), (368, 38729), (379, 38786), (381, 38831), (384, 38846), (390, 38879), (392, 38888), (393, 38891),

Gene: Laphuphu24k_45 Start: 29570, Stop: 30973, Start Num: 68
Candidate Starts for Laphuphu24k_45:
(Start: 68 @29570 has 21 MA's), (91, 29657), (92, 29666), (105, 29726), (121, 29780), (125, 29804), (140, 29897), (144, 29945), (146, 29951), (149, 29984), (150, 29996), (194, 30137), (270, 30335), (278, 30392), (280, 30398), (320, 30545), (326, 30560), (333, 30590), (341, 30611), (382, 30728), (385, 30737), (390, 30770), (396, 30809), (397, 30812), (401, 30857), (407, 30878), (416, 30947), (420, 30968),

Gene: Leona_46 Start: 29662, Stop: 31065, Start Num: 69
Candidate Starts for Leona_46:
(Start: 65 @29653 has 4 MA's), (Start: 69 @29662 has 42 MA's), (91, 29749), (92, 29758), (102, 29806), (105, 29818), (121, 29872), (125, 29896), (130, 29911), (136, 29956), (140, 29989), (144, 30037), (146, 30043), (149, 30076), (150, 30088), (194, 30229), (270, 30427), (278, 30484), (320, 30637), (326, 30652), (333, 30682), (341, 30703), (382, 30820), (385, 30829), (390, 30862), (401, 30949), (407, 30970), (416, 31039), (420, 31060),

Gene: Leperchaun_59 Start: 41080, Stop: 42594, Start Num: 73
Candidate Starts for Leperchaun_59:
(16, 40903), (Start: 73 @41080 has 29 MA's), (87, 41137), (92, 41173), (Start: 97 @41206 has 2 MA's), (129, 41428), (133, 41470), (Start: 147 @41596 has 1 MA's), (149, 41614), (162, 41674), (181, 41716), (187, 41728), (213, 41821), (220, 41845), (243, 41905), (Start: 279 @42028 has 1 MA's), (283, 42049), (284, 42058), (303, 42151), (355, 42331), (379, 42451), (384, 42511), (390, 42544), (392, 42553), (393, 42556),

Gene: Lilizi_100 Start: 58467, Stop: 59891, Start Num: 78
Candidate Starts for Lilizi_100:
(32, 58320), (43, 58350), (55, 58398), (58, 58413), (Start: 61 @58425 has 1 MA's), (Start: 78 @58467 has 73 MA's), (84, 58485), (Start: 97 @58581 has 2 MA's), (119, 58626), (141, 58710), (149, 58791), (176, 58890), (222, 59007), (266, 59109), (Start: 279 @59196 has 1 MA's), (283, 59217), (284, 59226), (289, 59262), (306, 59325), (341, 59427), (342, 59430), (356, 59493), (390, 59712), (397, 59754), (399, 59787), (402, 59802),

Gene: Lilpickle_98 Start: 58034, Stop: 59107, Start Num: 78
Candidate Starts for Lilpickle_98:
(32, 57887), (43, 57917), (55, 57965), (58, 57980), (Start: 61 @57992 has 1 MA's), (Start: 78 @58034 has 73 MA's), (84, 58052), (Start: 97 @58148 has 2 MA's), (119, 58193), (141, 58277), (157, 58400), (Start: 279 @58454 has 1 MA's), (284, 58484), (289, 58520), (342, 58667), (365, 58769), (390, 58928), (397, 58970), (399, 59003), (402, 59018),

Gene: LittleE_151 Start: 79162, Stop: 80334, Start Num: 33
Candidate Starts for LittleE_151:

(Start: 33 @79162 has 6 MA's), (64, 79270), (119, 79501), (246, 79819), (271, 79849), (276, 79885), (288, 79963), (294, 79990), (296, 79996), (341, 80056), (342, 80059), (379, 80113), (391, 80221), (400, 80299),

Gene: LittleTokyo_45 Start: 28365, Stop: 29681, Start Num: 68
Candidate Starts for LittleTokyo_45:
(Start: 68 @28365 has 21 MA's), (91, 28452), (92, 28461), (102, 28509), (105, 28521), (121, 28575), (125, 28599), (130, 28614), (140, 28692), (144, 28740), (146, 28746), (150, 28791), (194, 28932), (232, 29043), (270, 29133), (278, 29190), (285, 29235), (341, 29316), (382, 29436), (390, 29478), (395, 29499), (397, 29520), (407, 29586), (416, 29655),

Gene: Livelaughbron_100 Start: 59474, Stop: 60706, Start Num: 78
Candidate Starts for Livelaughbron_100:
(Start: 78 @59474 has 73 MA's), (84, 59492), (Start: 97 @59588 has 2 MA's), (119, 59633), (141, 59717), (176, 59840), (249, 59924), (284, 60041), (289, 60077), (306, 60140), (341, 60242), (342, 60245), (356, 60308), (390, 60527), (397, 60569), (399, 60602), (402, 60617),

Gene: Lunar_47 Start: 29201, Stop: 30613, Start Num: 65
Candidate Starts for Lunar_47:
(Start: 65 @29201 has 4 MA's), (Start: 69 @29210 has 42 MA's), (87, 29270), (91, 29297), (92, 29306), (102, 29354), (105, 29366), (121, 29420), (125, 29444), (128, 29453), (130, 29459), (135, 29501), (140, 29537), (144, 29585), (150, 29636), (164, 29696), (194, 29777), (202, 29816), (270, 29975), (278, 30032), (280, 30038), (285, 30077), (320, 30185), (326, 30200), (341, 30251), (379, 30323), (390, 30410), (396, 30449), (416, 30587),

Gene: LunarLander_60 Start: 41007, Stop: 39667, Start Num: 79
Candidate Starts for LunarLander_60:
(Start: 79 @41007 has 53 MA's), (Start: 97 @40899 has 2 MA's), (119, 40854), (141, 40770), (149, 40689), (185, 40551), (206, 40479), (Start: 279 @40233 has 1 MA's), (284, 40203), (342, 40065), (363, 40002), (366, 39999), (379, 39945), (387, 39861), (388, 39852), (390, 39843), (395, 39822), (396, 39804), (399, 39768),

Gene: MPhalcon_100 Start: 58576, Stop: 59808, Start Num: 78
Candidate Starts for MPhalcon_100:
(32, 58429), (43, 58459), (55, 58507), (58, 58522), (Start: 61 @58534 has 1 MA's), (Start: 78 @58576 has 73 MA's), (84, 58594), (Start: 97 @58690 has 2 MA's), (119, 58735), (141, 58819), (176, 58942), (249, 59026), (284, 59143), (289, 59179), (306, 59242), (341, 59344), (342, 59347), (356, 59410), (390, 59629), (397, 59671), (399, 59704), (402, 59719),

Gene: MadamMonkfish_99 Start: 58082, Stop: 59314, Start Num: 78
Candidate Starts for MadamMonkfish_99:
(32, 57935), (43, 57965), (55, 58013), (58, 58028), (Start: 61 @58040 has 1 MA's), (Start: 78 @58082 has 73 MA's), (84, 58100), (Start: 97 @58196 has 2 MA's), (119, 58241), (141, 58325), (165, 58448), (Start: 279 @58619 has 1 MA's), (284, 58649), (341, 58844), (342, 58847), (390, 59135), (397, 59177), (399, 59210), (402, 59225),

Gene: Mahavrat_63 Start: 41784, Stop: 43019, Start Num: 73
Candidate Starts for Mahavrat_63:
(12, 41607), (13, 41613), (18, 41622), (23, 41631), (Start: 73 @41784 has 29 MA's), (87, 41841), (Start: 97 @41910 has 2 MA's), (132, 41970), (133, 41976), (134, 41979), (Start: 147 @42102 has 1 MA's), (278, 42324), (Start: 279 @42327 has 1 MA's), (284, 42357), (285, 42369), (286, 42372), (342, 42543), (356, 42609), (379, 42729), (390, 42816), (393, 42828), (397, 42858),

Gene: Majeke_63 Start: 39197, Stop: 40675, Start Num: 34
Candidate Starts for Majeke_63:
(19, 39146), (28, 39161), (Start: 34 @39197 has 7 MA's), (Start: 62 @39290 has 1 MA's), (Start: 69 @39308 has 42 MA's), (86, 39344), (87, 39368), (92, 39404), (Start: 97 @39437 has 2 MA's), (113, 39527), (132, 39596), (133, 39602), (134, 39605), (135, 39623), (136, 39626), (260, 39869), (262, 39872), (Start: 279 @39956 has 1 MA's), (284, 39986), (285, 39998), (309, 40085), (341, 40187), (342, 40190), (358, 40253), (379, 40367), (390, 40469), (393, 40481), (396, 40508), (411, 40625),

Gene: Malithi_53 Start: 35858, Stop: 37051, Start Num: 73
Candidate Starts for Malithi_53:
(1, 35423), (54, 35795), (Start: 73 @35858 has 29 MA's), (86, 35891), (87, 35915), (92, 35951), (93, 35954), (Start: 97 @35984 has 2 MA's), (113, 36074), (120, 36101), (132, 36164), (133, 36170), (134, 36173), (135, 36191), (136, 36194), (260, 36437), (262, 36440), (282, 36542), (285, 36566), (297, 36623), (298, 36629), (319, 36659), (322, 36665), (342, 36731), (358, 36794), (379, 36908), (384, 36968), (390, 37001), (392, 37010), (393, 37013),

Gene: Mangethe_63 Start: 39197, Stop: 40675, Start Num: 34
Candidate Starts for Mangethe_63:
(19, 39146), (28, 39161), (Start: 34 @39197 has 7 MA's), (Start: 62 @39290 has 1 MA's), (Start: 69 @39308 has 42 MA's), (86, 39344), (87, 39368), (92, 39404), (Start: 97 @39437 has 2 MA's), (113, 39527), (132, 39596), (133, 39602), (134, 39605), (135, 39623), (136, 39626), (260, 39869), (262, 39872), (Start: 279 @39956 has 1 MA's), (284, 39986), (285, 39998), (309, 40085), (341, 40187), (342, 40190), (358, 40253), (379, 40367), (390, 40469), (393, 40481), (396, 40508), (411, 40625),

Gene: Marsha_58 Start: 41423, Stop: 40422, Start Num: 79
Candidate Starts for Marsha_58:
(Start: 79 @41423 has 53 MA's), (Start: 97 @41315 has 2 MA's), (119, 41270), (141, 41186), (271, 41063), (Start: 279 @41009 has 1 MA's), (283, 40988), (284, 40979), (289, 40943), (379, 40700), (386, 40628), (387, 40616), (388, 40607), (390, 40598), (395, 40577), (396, 40559), (399, 40523),

Gene: Maxxinista_101 Start: 58568, Stop: 59791, Start Num: 78
Candidate Starts for Maxxinista_101:
(32, 58421), (43, 58451), (55, 58499), (58, 58514), (Start: 61 @58526 has 1 MA's), (Start: 78 @58568 has 73 MA's), (84, 58586), (Start: 97 @58682 has 2 MA's), (119, 58727), (141, 58811), (176, 58934), (226, 58979), (237, 58991), (Start: 279 @59096 has 1 MA's), (283, 59117), (284, 59126), (289, 59162), (306, 59225), (341, 59327), (342, 59330), (356, 59393), (390, 59612), (397, 59654), (399, 59687), (402, 59702),

Gene: Medindi_73 Start: 44798, Stop: 46135, Start Num: 39
Candidate Starts for Medindi_73:
(39, 44798), (Start: 70 @44891 has 11 MA's), (87, 44951), (92, 44987), (Start: 97 @45020 has 2 MA's), (119, 45065), (Start: 147 @45212 has 1 MA's), (168, 45275), (195, 45305), (Start: 279 @45446 has 1 MA's), (283, 45467), (284, 45476), (289, 45512), (379, 45842), (390, 45929), (393, 45941), (395, 45950), (396, 45968), (411, 46085),

Gene: Melons_47 Start: 29024, Stop: 30427, Start Num: 69
Candidate Starts for Melons_47:
(48, 28961), (Start: 65 @29015 has 4 MA's), (Start: 69 @29024 has 42 MA's), (87, 29084), (91, 29111), (92, 29120), (102, 29168), (121, 29234), (125, 29258), (128, 29267), (130, 29273), (135, 29315), (140, 29351), (144, 29399), (150, 29450), (164, 29510), (194, 29591), (202, 29630), (270, 29789), (278, 29846), (280, 29852), (285, 29891), (320, 29999), (326, 30014), (341, 30065), (379, 30137), (390, 30224), (396, 30263), (407, 30332), (416, 30401),

Gene: Mindy_98 Start: 57904, Stop: 59124, Start Num: 78
Candidate Starts for Mindy_98:
(32, 57757), (43, 57787), (55, 57835), (58, 57850), (Start: 61 @57862 has 1 MA's), (Start: 78 @57904 has 73 MA's), (84, 57922), (Start: 97 @58018 has 2 MA's), (119, 58063), (141, 58147), (157, 58270), (188, 58315), (203, 58327), (Start: 279 @58432 has 1 MA's), (283, 58453), (284, 58462), (285, 58474), (289, 58498), (379, 58843), (386, 58915), (390, 58945), (397, 58987), (399, 59020), (402, 59035),

Gene: Miniwave_94 Start: 58078, Stop: 59301, Start Num: 78
Candidate Starts for Miniwave_94:
(32, 57931), (43, 57961), (55, 58009), (58, 58024), (Start: 61 @58036 has 1 MA's), (Start: 78 @58078 has 73 MA's), (84, 58096), (Start: 97 @58192 has 2 MA's), (119, 58237), (141, 58321), (176, 58444), (226, 58489), (237, 58501), (Start: 279 @58606 has 1 MA's), (283, 58627), (284, 58636), (289, 58672), (306, 58735), (341, 58837), (342, 58840), (356, 58903), (390, 59122), (397, 59164), (399, 59197), (402, 59212),

Gene: Misfit_100 Start: 59873, Stop: 60904, Start Num: 78
Candidate Starts for Misfit_100:
(32, 59726), (43, 59756), (55, 59804), (58, 59819), (Start: 61 @59831 has 1 MA's), (Start: 78 @59873 has 73 MA's), (84, 59891), (Start: 97 @59987 has 2 MA's), (119, 60032), (141, 60116), (Start: 279 @60320 has 1 MA's), (284, 60350), (289, 60386), (379, 60623), (390, 60725), (397, 60767), (399, 60800), (402, 60815),

Gene: Moldemort_102 Start: 58540, Stop: 59772, Start Num: 78
Candidate Starts for Moldemort_102:
(32, 58393), (43, 58423), (55, 58471), (58, 58486), (Start: 61 @58498 has 1 MA's), (Start: 78 @58540 has 73 MA's), (84, 58558), (Start: 97 @58654 has 2 MA's), (119, 58699), (141, 58783), (165, 58906), (Start: 279 @59077 has 1 MA's), (284, 59107), (341, 59302), (342, 59305), (390, 59593), (397, 59635), (399, 59668), (402, 59683),

Gene: Monet_62 Start: 42192, Stop: 41047, Start Num: 79
Candidate Starts for Monet_62:
(Start: 79 @42192 has 53 MA's), (Start: 97 @42084 has 2 MA's), (119, 42039), (141, 41955), (149, 41874), (173, 41796), (190, 41772), (223, 41721), (Start: 279 @41607 has 1 MA's), (283, 41586), (284, 41577), (289, 41541), (363, 41382), (366, 41379), (379, 41325), (387, 41241), (388, 41232), (390, 41223), (395, 41202),

Gene: Mosby_95 Start: 58156, Stop: 59268, Start Num: 78
Candidate Starts for Mosby_95:
(32, 58009), (43, 58039), (55, 58087), (58, 58102), (Start: 61 @58114 has 1 MA's), (Start: 78 @58156 has 73 MA's), (84, 58174), (Start: 97 @58270 has 2 MA's), (119, 58315), (141, 58399), (174, 58522), (196, 58567), (224, 58579), (Start: 279 @58684 has 1 MA's), (284, 58714), (289, 58750), (379, 58987), (390, 59089), (397, 59131), (399, 59164), (402, 59179),

Gene: Ms6_71 Start: 41300, Stop: 42577, Start Num: 70
Candidate Starts for Ms6_71:
(58, 41276), (Start: 70 @41300 has 11 MA's), (75, 41306), (87, 41360), (92, 41396), (Start: 97 @41429 has 2 MA's), (119, 41474), (141, 41558), (168, 41684), (Start: 279 @41855 has 1 MA's), (283, 41876), (284, 41885), (306, 41984), (341, 42086), (342, 42089), (353, 42152), (379, 42269), (390, 42371), (393, 42383), (395, 42392), (396, 42410), (411, 42527),

Gene: Mule_57 Start: 39640, Stop: 38414, Start Num: 33
Candidate Starts for Mule_57:

(Start: 33 @39640 has 6 MA's), (64, 39532), (119, 39301), (Start: 279 @38899 has 1 MA's), (284, 38869), (289, 38833), (342, 38746), (379, 38692), (390, 38590), (397, 38548), (399, 38515),

Gene: Murphy_99 Start: 58919, Stop: 60163, Start Num: 78
Candidate Starts for Murphy_99:
(32, 58772), (43, 58802), (55, 58850), (58, 58865), (Start: 61 @58877 has 1 MA's), (Start: 78 @58919 has 73 MA's), (84, 58937), (Start: 97 @59033 has 2 MA's), (119, 59078), (141, 59162), (165, 59285), (253, 59372), (256, 59378), (Start: 279 @59468 has 1 MA's), (283, 59489), (284, 59498), (341, 59693), (342, 59696), (390, 59984), (397, 60026), (399, 60059), (402, 60074),

Gene: Museum_60 Start: 41508, Stop: 40111, Start Num: 79
Candidate Starts for Museum_60:
(Start: 79 @41508 has 53 MA's), (Start: 97 @41400 has 2 MA's), (119, 41355), (135, 41313), (136, 41310), (141, 41271), (170, 41091), (214, 40974), (262, 40872), (Start: 279 @40785 has 1 MA's), (283, 40764), (284, 40755), (289, 40719), (338, 40578), (340, 40575), (359, 40497), (379, 40389), (387, 40305), (388, 40296), (390, 40287), (395, 40266), (396, 40248), (399, 40212),

Gene: Nala_101 Start: 59085, Stop: 60317, Start Num: 78
Candidate Starts for Nala_101:
(32, 58938), (43, 58968), (55, 59016), (58, 59031), (Start: 61 @59043 has 1 MA's), (Start: 78 @59085 has 73 MA's), (84, 59103), (Start: 97 @59199 has 2 MA's), (119, 59244), (141, 59328), (176, 59451), (249, 59535), (284, 59652), (289, 59688), (306, 59751), (341, 59853), (342, 59856), (356, 59919), (390, 60138), (397, 60180), (399, 60213), (402, 60228),

Gene: Nazo_56 Start: 38421, Stop: 39956, Start Num: 73
Candidate Starts for Nazo_56:
(6, 38139), (50, 38340), (60, 38382), (Start: 73 @38421 has 29 MA's), (83, 38448), (86, 38454), (87, 38478), (92, 38514), (93, 38517), (Start: 97 @38547 has 2 MA's), (108, 38613), (135, 38763), (149, 38886), (194, 39024), (209, 39096), (Start: 279 @39342 has 1 MA's), (282, 39360), (299, 39450), (302, 39459), (317, 39501), (379, 39666), (382, 39711), (393, 39765), (397, 39795), (410, 39900),

Gene: Necropolis_52 Start: 36014, Stop: 37207, Start Num: 73
Candidate Starts for Necropolis_52:
(1, 35579), (54, 35951), (Start: 73 @36014 has 29 MA's), (86, 36047), (87, 36071), (92, 36107), (93, 36110), (Start: 97 @36140 has 2 MA's), (113, 36230), (120, 36257), (132, 36320), (133, 36326), (134, 36329), (135, 36347), (136, 36350), (260, 36593), (262, 36596), (282, 36698), (285, 36722), (297, 36779), (298, 36785), (319, 36815), (322, 36821), (342, 36887), (358, 36950), (379, 37064), (384, 37124), (390, 37157), (392, 37166), (393, 37169),

Gene: Nerujay_61 Start: 41557, Stop: 40460, Start Num: 79
Candidate Starts for Nerujay_61:
(Start: 79 @41557 has 53 MA's), (Start: 97 @41449 has 2 MA's), (148, 41404), (172, 41362), (180, 41359), (198, 41320), (268, 41197), (Start: 279 @41143 has 1 MA's), (283, 41122), (284, 41113), (289, 41077), (324, 40975), (341, 40912), (342, 40909), (379, 40723), (390, 40636), (397, 40594), (399, 40561),

Gene: Niblet_44 Start: 30581, Stop: 31903, Start Num: 69
Candidate Starts for Niblet_44:
(Start: 65 @30572 has 4 MA's), (Start: 69 @30581 has 42 MA's), (92, 30677), (102, 30725), (105, 30737), (121, 30791), (125, 30815), (130, 30830), (133, 30851), (140, 30908), (144, 30956), (150, 31007), (163, 31058), (194, 31148), (202, 31187), (270, 31346), (377, 31580), (379, 31613), (382, 31658), (390, 31700), (396, 31739), (399, 31775), (416, 31877), (420, 31898),

Gene: NoSleep_100 Start: 58101, Stop: 59324, Start Num: 78
Candidate Starts for NoSleep_100:
(32, 57954), (43, 57984), (55, 58032), (58, 58047), (Start: 61 @58059 has 1 MA's), (Start: 78 @58101 has 73 MA's), (84, 58119), (Start: 97 @58215 has 2 MA's), (119, 58260), (141, 58344), (176, 58467), (226, 58512), (237, 58524), (Start: 279 @58629 has 1 MA's), (283, 58650), (284, 58659), (289, 58695), (306, 58758), (341, 58860), (342, 58863), (356, 58926), (390, 59145), (397, 59187), (399, 59220), (402, 59235),

Gene: Norz_60 Start: 42653, Stop: 41406, Start Num: 79
Candidate Starts for Norz_60:
(Start: 79 @42653 has 53 MA's), (Start: 97 @42545 has 2 MA's), (119, 42500), (141, 42416), (149, 42335), (185, 42197), (206, 42125), (Start: 279 @41879 has 1 MA's), (284, 41849), (285, 41837), (363, 41747), (366, 41744), (385, 41621), (387, 41606), (389, 41591), (390, 41588), (396, 41549), (412, 41420),

Gene: Omega_155 Start: 80246, Stop: 81556, Start Num: 79
Candidate Starts for Omega_155:
(Start: 79 @80246 has 53 MA's), (Start: 97 @80354 has 2 MA's), (119, 80399), (141, 80483), (149, 80564), (170, 80663), (214, 80780), (262, 80882), (Start: 279 @80969 has 1 MA's), (283, 80990), (284, 80999), (289, 81035), (379, 81278), (386, 81350), (387, 81362), (388, 81371), (390, 81380), (395, 81401), (396, 81419), (399, 81455),

Gene: Oogway_58 Start: 41069, Stop: 39816, Start Num: 79
Candidate Starts for Oogway_58:
(Start: 79 @41069 has 53 MA's), (Start: 97 @40961 has 2 MA's), (119, 40916), (164, 40691), (Start: 279 @40499 has 1 MA's), (283, 40478), (284, 40469), (289, 40433), (291, 40412), (342, 40265), (360, 40187), (379, 40079), (390, 39992), (397, 39950),

Gene: Oppalora_46 Start: 29584, Stop: 30987, Start Num: 68
Candidate Starts for Oppalora_46:
(Start: 68 @29584 has 21 MA's), (91, 29671), (102, 29728), (105, 29740), (121, 29794), (125, 29818), (140, 29911), (144, 29959), (146, 29965), (149, 29998), (150, 30010), (194, 30151), (270, 30349), (278, 30406), (280, 30412), (320, 30559), (326, 30574), (333, 30604), (341, 30625), (382, 30742), (385, 30751), (390, 30784), (396, 30823), (397, 30826), (401, 30871), (407, 30892), (416, 30961), (420, 30982),

Gene: Orcanus_45 Start: 30565, Stop: 31884, Start Num: 69
Candidate Starts for Orcanus_45:
(27, 30397), (Start: 65 @30556 has 4 MA's), (Start: 69 @30565 has 42 MA's), (92, 30661), (102, 30709), (105, 30721), (121, 30775), (125, 30799), (130, 30814), (133, 30835), (140, 30892), (144, 30940), (150, 30991), (163, 31042), (194, 31132), (212, 31210), (278, 31387), (282, 31408), (341, 31522), (377, 31561), (379, 31594), (390, 31681), (397, 31723), (399, 31756), (409, 31822), (410, 31828), (416, 31858), (420, 31879),

Gene: OrionPax_98 Start: 58173, Stop: 59396, Start Num: 78
Candidate Starts for OrionPax_98:
(32, 58026), (43, 58056), (55, 58104), (58, 58119), (Start: 61 @58131 has 1 MA's), (Start: 78 @58173 has 73 MA's), (84, 58191), (Start: 97 @58287 has 2 MA's), (119, 58332), (141, 58416), (176, 58539), (226, 58584), (237, 58596), (Start: 279 @58701 has 1 MA's), (283, 58722), (284, 58731), (289, 58767), (306, 58830), (341, 58932), (342, 58935), (356, 58998), (390, 59217), (397, 59259), (399, 59292), (402, 59307),

Gene: OtsoOtso_46 Start: 28380, Stop: 29783, Start Num: 69

Candidate Starts for OtsoOtso_46:
(5, 28119), (22, 28245), (Start: 69 @28380 has 42 MA's), (87, 28440), (91, 28467), (92, 28476), (93, 28479), (102, 28524), (105, 28536), (121, 28590), (125, 28614), (130, 28629), (135, 28671), (140, 28707), (144, 28755), (150, 28806), (164, 28866), (194, 28947), (202, 28986), (270, 29145), (278, 29202), (280, 29208), (285, 29247), (320, 29355), (326, 29370), (341, 29421), (379, 29493), (390, 29580), (404, 29682), (416, 29757),

Gene: PHappiness_62 Start: 41626, Stop: 43140, Start Num: 73
Candidate Starts for PHappiness_62:
(16, 41449), (Start: 73 @41626 has 29 MA's), (87, 41683), (92, 41719), (Start: 97 @41752 has 2 MA's), (129, 41974), (133, 42016), (Start: 147 @42142 has 1 MA's), (149, 42160), (162, 42220), (181, 42262), (187, 42274), (213, 42367), (220, 42391), (243, 42451), (Start: 279 @42574 has 1 MA's), (283, 42595), (284, 42604), (303, 42697), (355, 42877), (379, 42997), (384, 43057), (390, 43090), (392, 43099), (393, 43102),

Gene: PaddyBaddy_99 Start: 58292, Stop: 59515, Start Num: 78
Candidate Starts for PaddyBaddy_99:
(32, 58145), (43, 58175), (55, 58223), (58, 58238), (Start: 61 @58250 has 1 MA's), (Start: 78 @58292 has 73 MA's), (84, 58310), (Start: 97 @58406 has 2 MA's), (119, 58451), (141, 58535), (176, 58658), (226, 58703), (237, 58715), (Start: 279 @58820 has 1 MA's), (283, 58841), (284, 58850), (289, 58886), (306, 58949), (341, 59051), (342, 59054), (356, 59117), (390, 59336), (397, 59378), (399, 59411), (402, 59426),

Gene: PaintedDog_59 Start: 38691, Stop: 40103, Start Num: 73
Candidate Starts for PaintedDog_59:
(52, 38622), (Start: 73 @38691 has 29 MA's), (83, 38718), (86, 38724), (87, 38748), (92, 38784), (93, 38787), (Start: 97 @38817 has 2 MA's), (110, 38943), (118, 38973), (126, 39063), (132, 39108), (133, 39114), (135, 39135), (136, 39138), (149, 39258), (150, 39270), (159, 39306), (212, 39456), (226, 39480), (264, 39537), (275, 39594), (277, 39597), (286, 39636), (304, 39699), (379, 39813), (387, 39882), (390, 39900), (393, 39912), (395, 39921), (397, 39942), (411, 40056),

Gene: Palpatine_100 Start: 59370, Stop: 60602, Start Num: 78
Candidate Starts for Palpatine_100:
(32, 59223), (43, 59253), (55, 59301), (58, 59316), (Start: 61 @59328 has 1 MA's), (Start: 78 @59370 has 73 MA's), (84, 59388), (Start: 97 @59484 has 2 MA's), (119, 59529), (141, 59613), (176, 59736), (249, 59820), (284, 59937), (289, 59973), (306, 60036), (341, 60138), (342, 60141), (356, 60204), (390, 60423), (397, 60465), (399, 60498), (402, 60513),

Gene: Paperbeatsrock_98 Start: 58756, Stop: 59979, Start Num: 78
Candidate Starts for Paperbeatsrock_98:
(32, 58609), (43, 58639), (55, 58687), (58, 58702), (Start: 61 @58714 has 1 MA's), (Start: 78 @58756 has 73 MA's), (84, 58774), (Start: 97 @58870 has 2 MA's), (119, 58915), (141, 58999), (176, 59122), (226, 59167), (237, 59179), (Start: 279 @59284 has 1 MA's), (283, 59305), (284, 59314), (289, 59350), (306, 59413), (341, 59515), (342, 59518), (356, 59581), (390, 59800), (397, 59842), (399, 59875), (402, 59890),

Gene: Paphu_58 Start: 40715, Stop: 39447, Start Num: 79
Candidate Starts for Paphu_58:
(Start: 79 @40715 has 53 MA's), (Start: 97 @40607 has 2 MA's), (119, 40562), (141, 40478), (149, 40397), (170, 40298), (214, 40181), (262, 40079), (Start: 279 @39992 has 1 MA's), (283, 39971), (284, 39962), (293, 39905), (374, 39752), (379, 39710), (385, 39656), (390, 39623), (399, 39548),

Gene: Parliament_59 Start: 41358, Stop: 40075, Start Num: 79

Candidate Starts for Parliament_59:
(Start: 79 @41358 has 53 MA's), (Start: 97 @41250 has 2 MA's), (119, 41205), (133, 41184), (135, 41163), (136, 41160), (149, 41040), (170, 40941), (214, 40824), (262, 40722), (Start: 279 @40635 has 1 MA's), (283, 40614), (284, 40605), (293, 40548), (363, 40410), (366, 40407), (379, 40353), (387, 40269), (388, 40260), (390, 40251), (395, 40230), (396, 40212), (399, 40176),

Gene: Pat3_96 Start: 57279, Stop: 58496, Start Num: 78
Candidate Starts for Pat3_96:
(32, 57132), (43, 57162), (55, 57210), (58, 57225), (Start: 61 @57237 has 1 MA's), (Start: 78 @57279 has 73 MA's), (84, 57297), (Start: 97 @57393 has 2 MA's), (119, 57438), (141, 57522), (176, 57645), (226, 57690), (240, 57702), (282, 57825), (284, 57837), (285, 57849), (397, 58359), (399, 58392),

Gene: PeanutPie_59 Start: 38490, Stop: 39635, Start Num: 69
Candidate Starts for PeanutPie_59:
(36, 38388), (40, 38397), (49, 38424), (Start: 69 @38490 has 42 MA's), (87, 38550), (93, 38589), (Start: 97 @38619 has 2 MA's), (106, 38676), (123, 38763), (133, 38841), (138, 38886), (Start: 279 @39072 has 1 MA's), (282, 39090), (285, 39114), (326, 39249), (334, 39279), (342, 39315), (353, 39378), (379, 39492), (384, 39552), (390, 39585), (392, 39594), (393, 39597),

Gene: Pelletreau_54 Start: 30988, Stop: 32316, Start Num: 65
Candidate Starts for Pelletreau_54:
(17, 30838), (27, 30853), (Start: 65 @30988 has 4 MA's), (Start: 69 @30997 has 42 MA's), (92, 31093), (102, 31141), (105, 31153), (121, 31207), (125, 31231), (130, 31246), (133, 31267), (140, 31324), (144, 31372), (150, 31423), (163, 31474), (194, 31564), (212, 31642), (282, 31840), (341, 31954), (377, 31993), (379, 32026), (390, 32113), (397, 32155), (399, 32188), (408, 32227), (409, 32254), (410, 32260), (416, 32290), (420, 32311),

Gene: Pelly_59 Start: 41496, Stop: 40015, Start Num: 79
Candidate Starts for Pelly_59:
(Start: 79 @41496 has 53 MA's), (96, 41397), (Start: 97 @41388 has 2 MA's), (119, 41343), (141, 41259), (189, 41028), (201, 40980), (210, 40944), (243, 40854), (252, 40836), (Start: 279 @40713 has 1 MA's), (284, 40683), (289, 40647), (314, 40569), (325, 40542), (327, 40536), (341, 40476), (353, 40410), (387, 40209), (388, 40200), (390, 40191), (395, 40170), (396, 40152), (399, 40116),

Gene: Perseus_59 Start: 42045, Stop: 40819, Start Num: 33
Candidate Starts for Perseus_59:
(Start: 33 @42045 has 6 MA's), (64, 41937), (119, 41706), (Start: 279 @41304 has 1 MA's), (284, 41274), (289, 41238), (342, 41151), (379, 41097), (390, 40995), (397, 40953), (399, 40920),

Gene: Petp2012_60 Start: 41977, Stop: 40853, Start Num: 79
Candidate Starts for Petp2012_60:
(Start: 79 @41977 has 53 MA's), (Start: 97 @41869 has 2 MA's), (148, 41824), (198, 41740), (Start: 279 @41536 has 1 MA's), (284, 41506), (289, 41470), (324, 41368), (341, 41305), (342, 41302), (360, 41224), (379, 41116), (390, 41029), (397, 40987), (399, 40954),

Gene: Phanphagia_71 Start: 45375, Stop: 46631, Start Num: 70
Candidate Starts for Phanphagia_71:
(57, 45342), (Start: 70 @45375 has 11 MA's), (83, 45405), (87, 45435), (92, 45471), (Start: 97 @45504 has 2 MA's), (119, 45549), (141, 45633), (Start: 147 @45696 has 1 MA's), (166, 45756), (242, 45843), (248, 45849), (Start: 279 @45939 has 1 MA's), (284, 45969), (289, 46005), (341, 46149), (342, 46152), (369, 46254), (378, 46296), (379, 46323), (386, 46395), (387, 46407), (390, 46425), (393, 46437), (395, 46446), (396, 46464), (411, 46581),

Gene: Pharsalus_96 Start: 58556, Stop: 59674, Start Num: 78
Candidate Starts for Pharsalus_96:
(32, 58409), (43, 58439), (55, 58487), (58, 58502), (Start: 61 @58514 has 1 MA's), (Start: 78 @58556 has 73 MA's), (84, 58574), (Start: 97 @58670 has 2 MA's), (119, 58715), (141, 58799), (176, 58922), (Start: 279 @58976 has 1 MA's), (284, 59006), (289, 59042), (328, 59144), (341, 59207), (342, 59210), (361, 59288), (379, 59396), (386, 59468), (391, 59504), (400, 59582), (405, 59603),

Gene: PhatBacter_102 Start: 59115, Stop: 60347, Start Num: 78
Candidate Starts for PhatBacter_102:
(32, 58968), (43, 58998), (55, 59046), (58, 59061), (Start: 61 @59073 has 1 MA's), (Start: 78 @59115 has 73 MA's), (84, 59133), (Start: 97 @59229 has 2 MA's), (119, 59274), (141, 59358), (176, 59481), (249, 59565), (284, 59682), (289, 59718), (306, 59781), (341, 59883), (342, 59886), (356, 59949), (390, 60168), (397, 60210), (399, 60243), (402, 60258),

Gene: Phaux_101 Start: 59684, Stop: 60907, Start Num: 78
Candidate Starts for Phaux_101:
(32, 59537), (43, 59567), (55, 59615), (58, 59630), (Start: 61 @59642 has 1 MA's), (Start: 78 @59684 has 73 MA's), (84, 59702), (Start: 97 @59798 has 2 MA's), (119, 59843), (141, 59927), (176, 60050), (226, 60095), (237, 60107), (Start: 279 @60212 has 1 MA's), (283, 60233), (284, 60242), (289, 60278), (306, 60341), (341, 60443), (342, 60446), (356, 60509), (390, 60728), (397, 60770), (399, 60803), (402, 60818),

Gene: Phegasus_63 Start: 39164, Stop: 40642, Start Num: 34
Candidate Starts for Phegasus_63:
(19, 39113), (28, 39128), (Start: 34 @39164 has 7 MA's), (Start: 62 @39257 has 1 MA's), (Start: 69 @39275 has 42 MA's), (86, 39311), (87, 39335), (92, 39371), (Start: 97 @39404 has 2 MA's), (113, 39494), (132, 39563), (133, 39569), (134, 39572), (135, 39590), (136, 39593), (260, 39836), (262, 39839), (Start: 279 @39923 has 1 MA's), (284, 39953), (285, 39965), (309, 40052), (341, 40154), (342, 40157), (358, 40220), (379, 40334), (390, 40436), (393, 40448), (396, 40475), (411, 40592),

Gene: PhesterPhotato_66 Start: 41796, Stop: 43328, Start Num: 73
Candidate Starts for PhesterPhotato_66:
(Start: 73 @41796 has 29 MA's), (87, 41853), (89, 41865), (Start: 97 @41922 has 2 MA's), (104, 41976), (133, 42189), (134, 42192), (136, 42213), (191, 42483), (202, 42531), (211, 42567), (243, 42657), (252, 42675), (Start: 279 @42798 has 1 MA's), (282, 42816), (284, 42828), (285, 42840), (291, 42885), (315, 42933), (368, 43128), (379, 43185), (384, 43245), (390, 43278), (392, 43287), (393, 43290),

Gene: Phineas_55 Start: 36983, Stop: 38176, Start Num: 73
Candidate Starts for Phineas_55:
(1, 36548), (54, 36920), (Start: 73 @36983 has 29 MA's), (86, 37016), (87, 37040), (92, 37076), (93, 37079), (Start: 97 @37109 has 2 MA's), (113, 37199), (120, 37226), (132, 37289), (133, 37295), (134, 37298), (135, 37316), (136, 37319), (260, 37562), (262, 37565), (282, 37667), (285, 37691), (297, 37748), (298, 37754), (319, 37784), (322, 37790), (342, 37856), (358, 37919), (379, 38033), (384, 38093), (390, 38126), (392, 38135), (393, 38138),

Gene: PhirstandPhine_47 Start: 29170, Stop: 30573, Start Num: 69
Candidate Starts for PhirstandPhine_47:
(Start: 65 @29161 has 4 MA's), (Start: 69 @29170 has 42 MA's), (87, 29230), (91, 29257), (92, 29266), (102, 29314), (105, 29326), (121, 29380), (125, 29404), (128, 29413), (130, 29419), (135, 29461), (140, 29497), (144, 29545), (150, 29596), (164, 29656), (194, 29737), (202, 29776), (270, 29935), (278, 29992), (280, 29998), (285, 30037), (320, 30145), (326, 30160), (341, 30211), (379, 30283), (390, 30370), (396, 30409), (416, 30547),

Gene: PhluffyCoco_47 Start: 29684, Stop: 31087, Start Num: 68
Candidate Starts for PhluffyCoco_47:
(Start: 68 @29684 has 21 MA's), (91, 29771), (102, 29828), (105, 29840), (121, 29894), (125, 29918), (140, 30011), (144, 30059), (146, 30065), (149, 30098), (150, 30110), (194, 30251), (270, 30449), (278, 30506), (280, 30512), (320, 30659), (326, 30674), (333, 30704), (341, 30725), (382, 30842), (385, 30851), (390, 30884), (396, 30923), (397, 30926), (401, 30971), (407, 30992), (416, 31061), (420, 31082),

Gene: PhrostyMug_59 Start: 41814, Stop: 40588, Start Num: 33
Candidate Starts for PhrostyMug_59:
(Start: 33 @41814 has 6 MA's), (64, 41706), (119, 41475), (Start: 279 @41073 has 1 MA's), (284, 41043), (289, 41007), (342, 40920), (379, 40866), (390, 40764), (397, 40722), (399, 40689),

Gene: Phrux_96 Start: 57960, Stop: 59183, Start Num: 78
Candidate Starts for Phrux_96:
(32, 57813), (43, 57843), (55, 57891), (58, 57906), (Start: 61 @57918 has 1 MA's), (Start: 78 @57960 has 73 MA's), (84, 57978), (Start: 97 @58074 has 2 MA's), (119, 58119), (141, 58203), (176, 58326), (226, 58371), (237, 58383), (Start: 279 @58488 has 1 MA's), (283, 58509), (284, 58518), (289, 58554), (306, 58617), (341, 58719), (342, 58722), (356, 58785), (390, 59004), (397, 59046), (399, 59079), (402, 59094),

Gene: Pineda_47 Start: 28696, Stop: 30099, Start Num: 69
Candidate Starts for Pineda_47:
(Start: 65 @28687 has 4 MA's), (Start: 69 @28696 has 42 MA's), (87, 28756), (91, 28783), (92, 28792), (102, 28840), (105, 28852), (121, 28906), (125, 28930), (128, 28939), (130, 28945), (135, 28987), (140, 29023), (144, 29071), (150, 29122), (164, 29182), (194, 29263), (202, 29302), (270, 29461), (278, 29518), (280, 29524), (285, 29563), (320, 29671), (326, 29686), (341, 29737), (379, 29809), (390, 29896), (396, 29935), (397, 29938), (407, 30004), (416, 30073),

Gene: Policronamos_101 Start: 59388, Stop: 60611, Start Num: 78
Candidate Starts for Policronamos_101:
(32, 59241), (43, 59271), (55, 59319), (58, 59334), (Start: 61 @59346 has 1 MA's), (Start: 78 @59388 has 73 MA's), (84, 59406), (Start: 97 @59502 has 2 MA's), (119, 59547), (141, 59631), (176, 59754), (226, 59799), (237, 59811), (Start: 279 @59916 has 1 MA's), (283, 59937), (284, 59946), (289, 59982), (306, 60045), (341, 60147), (342, 60150), (356, 60213), (390, 60432), (397, 60474), (399, 60507), (402, 60522),

Gene: Polka_45 Start: 28380, Stop: 29783, Start Num: 69
Candidate Starts for Polka_45:
(5, 28119), (22, 28245), (Start: 69 @28380 has 42 MA's), (87, 28440), (91, 28467), (92, 28476), (93, 28479), (102, 28524), (105, 28536), (121, 28590), (125, 28614), (130, 28629), (135, 28671), (140, 28707), (144, 28755), (150, 28806), (164, 28866), (194, 28947), (202, 28986), (270, 29145), (278, 29202), (280, 29208), (285, 29247), (320, 29355), (326, 29370), (341, 29421), (379, 29493), (390, 29580), (404, 29682), (416, 29757),

Gene: Polka14_65 Start: 42690, Stop: 44204, Start Num: 73
Candidate Starts for Polka14_65:
(16, 42513), (Start: 73 @42690 has 29 MA's), (87, 42747), (92, 42783), (Start: 97 @42816 has 2 MA's), (129, 43038), (133, 43080), (Start: 147 @43206 has 1 MA's), (149, 43224), (162, 43284), (181, 43326), (187, 43338), (213, 43431), (220, 43455), (243, 43515), (Start: 279 @43638 has 1 MA's), (283, 43659), (284, 43668), (303, 43761), (355, 43941), (379, 44061), (384, 44121), (390, 44154), (392, 44163), (393, 44166),

Gene: Polkaroo_53 Start: 35895, Stop: 37256, Start Num: 71
Candidate Starts for Polkaroo_53:
(44, 35826), (71, 35895), (83, 35922), (86, 35928), (87, 35952), (92, 35988), (Start: 97 @36021 has 2 MA's), (113, 36111), (120, 36138), (141, 36270), (149, 36351), (173, 36393), (175, 36396), (282, 36615), (284, 36627), (342, 36807), (366, 36909), (379, 36966), (390, 37053), (393, 37065), (395, 37074), (396, 37092), (411, 37209),

Gene: PopTart_63 Start: 42020, Stop: 43417, Start Num: 70
Candidate Starts for PopTart_63:
(41, 41912), (Start: 70 @42020 has 11 MA's), (83, 42050), (87, 42080), (92, 42116), (Start: 97 @42149 has 2 MA's), (132, 42326), (133, 42332), (134, 42335), (135, 42353), (136, 42356), (141, 42395), (Start: 147 @42458 has 1 MA's), (149, 42476), (178, 42521), (Start: 279 @42692 has 1 MA's), (283, 42713), (284, 42722), (289, 42758), (324, 42860), (341, 42923), (342, 42926), (390, 43211), (393, 43223), (396, 43250), (411, 43367),

Gene: Porky_98 Start: 57668, Stop: 58927, Start Num: 78
Candidate Starts for Porky_98:
(32, 57521), (43, 57551), (55, 57599), (58, 57614), (Start: 61 @57626 has 1 MA's), (Start: 78 @57668 has 73 MA's), (84, 57686), (Start: 97 @57782 has 2 MA's), (119, 57827), (141, 57911), (150, 58004), (238, 58121), (Start: 279 @58232 has 1 MA's), (284, 58262), (306, 58361), (341, 58463), (342, 58466), (356, 58529), (379, 58646), (390, 58748), (397, 58790), (399, 58823), (402, 58838),

Gene: Puppet_59 Start: 41751, Stop: 40291, Start Num: 79
Candidate Starts for Puppet_59:
(Start: 79 @41751 has 53 MA's), (Start: 97 @41643 has 2 MA's), (119, 41598), (189, 41283), (201, 41235), (210, 41199), (243, 41109), (252, 41091), (Start: 279 @40968 has 1 MA's), (284, 40938), (289, 40902), (314, 40824), (325, 40797), (327, 40791), (341, 40731), (370, 40626), (379, 40569), (387, 40485), (388, 40476), (390, 40467), (395, 40446), (396, 40428), (399, 40392),

Gene: Pygmy_57 Start: 38447, Stop: 39640, Start Num: 73
Candidate Starts for Pygmy_57:
(1, 38012), (54, 38384), (Start: 73 @38447 has 29 MA's), (86, 38480), (87, 38504), (92, 38540), (93, 38543), (Start: 97 @38573 has 2 MA's), (113, 38663), (120, 38690), (132, 38753), (133, 38759), (134, 38762), (135, 38780), (136, 38783), (260, 39026), (262, 39029), (282, 39131), (285, 39155), (297, 39212), (298, 39218), (319, 39248), (322, 39254), (342, 39320), (358, 39383), (379, 39497), (384, 39557), (390, 39590), (392, 39599), (393, 39602),

Gene: Quallification_100 Start: 59164, Stop: 60393, Start Num: 78
Candidate Starts for Quallification_100:
(32, 59017), (43, 59047), (55, 59095), (58, 59110), (Start: 61 @59122 has 1 MA's), (Start: 78 @59164 has 73 MA's), (84, 59182), (Start: 97 @59278 has 2 MA's), (119, 59323), (141, 59407), (176, 59530), (226, 59575), (237, 59587), (Start: 279 @59692 has 1 MA's), (283, 59713), (284, 59722), (289, 59758), (306, 59821), (341, 59923), (342, 59926), (361, 60004), (379, 60112), (390, 60214), (397, 60256), (399, 60289), (402, 60304),

Gene: QueenHazel_54 Start: 37190, Stop: 38452, Start Num: 70
Candidate Starts for QueenHazel_54:
(39, 37100), (42, 37109), (Start: 70 @37190 has 11 MA's), (83, 37220), (87, 37250), (92, 37286), (Start: 97 @37319 has 2 MA's), (119, 37364), (Start: 147 @37511 has 1 MA's), (149, 37529), (229, 37613), (Start: 279 @37733 has 1 MA's), (283, 37754), (284, 37763), (289, 37799), (292, 37820), (311, 37874), (326, 37901), (379, 38147), (389, 38246), (390, 38249), (393, 38261), (395, 38270), (397, 38291),

Gene: Quico_82 Start: 47597, Stop: 49045, Start Num: 70
Candidate Starts for Quico_82:
(58, 47573), (Start: 70 @47597 has 11 MA's), (75, 47603), (87, 47657), (92, 47693), (Start: 97 @47726 has 2 MA's), (119, 47771), (141, 47855), (158, 47972), (171, 48026), (186, 48053), (239, 48230), (Start: 279 @48338 has 1 MA's), (280, 48341), (285, 48380), (313, 48482), (318, 48488), (341, 48563), (342, 48566), (379, 48752), (390, 48839), (393, 48851), (395, 48860), (397, 48881), (411, 48995),

Gene: Rajelicia_60 Start: 41970, Stop: 40882, Start Num: 79
Candidate Starts for Rajelicia_60:
(Start: 79 @41970 has 53 MA's), (Start: 97 @41862 has 2 MA's), (119, 41817), (141, 41733), (271, 41610), (Start: 279 @41556 has 1 MA's), (284, 41526), (289, 41490), (341, 41349), (342, 41346), (360, 41268), (379, 41160), (387, 41076), (388, 41067), (390, 41058), (395, 41037), (396, 41019), (399, 40983),

Gene: Rattail_47 Start: 29770, Stop: 31173, Start Num: 68
Candidate Starts for Rattail_47:
(Start: 68 @29770 has 21 MA's), (91, 29857), (102, 29914), (105, 29926), (121, 29980), (125, 30004), (140, 30097), (144, 30145), (146, 30151), (149, 30184), (150, 30196), (194, 30337), (270, 30535), (278, 30592), (280, 30598), (320, 30745), (326, 30760), (333, 30790), (341, 30811), (382, 30928), (385, 30937), (390, 30970), (396, 31009), (397, 31012), (401, 31057), (407, 31078), (416, 31147), (420, 31168),

Gene: RedFox_47 Start: 29683, Stop: 31086, Start Num: 68
Candidate Starts for RedFox_47:
(Start: 68 @29683 has 21 MA's), (91, 29770), (92, 29779), (102, 29827), (105, 29839), (121, 29893), (125, 29917), (130, 29932), (140, 30010), (144, 30058), (146, 30064), (149, 30097), (150, 30109), (194, 30250), (270, 30448), (278, 30505), (280, 30511), (320, 30658), (326, 30673), (333, 30703), (341, 30724), (342, 30727), (382, 30841), (385, 30850), (390, 30883), (397, 30925), (401, 30970), (407, 30991), (416, 31060), (420, 31081),

Gene: Renaud18_76 Start: 44560, Stop: 46092, Start Num: 73
Candidate Starts for Renaud18_76:
(16, 44383), (21, 44389), (26, 44398), (29, 44407), (36, 44446), (53, 44503), (Start: 73 @44560 has 29 MA's), (87, 44617), (89, 44629), (Start: 97 @44686 has 2 MA's), (104, 44740), (133, 44953), (134, 44956), (136, 44977), (191, 45247), (202, 45295), (211, 45331), (243, 45421), (252, 45439), (Start: 279 @45562 has 1 MA's), (282, 45580), (284, 45592), (285, 45604), (291, 45649), (315, 45697), (368, 45892), (379, 45949), (384, 46009), (390, 46042), (392, 46051), (393, 46054),

Gene: Renna12_46 Start: 29540, Stop: 30943, Start Num: 68
Candidate Starts for Renna12_46:
(Start: 68 @29540 has 21 MA's), (91, 29627), (92, 29636), (102, 29684), (105, 29696), (121, 29750), (125, 29774), (130, 29789), (133, 29810), (136, 29834), (140, 29867), (144, 29915), (146, 29921), (150, 29966), (194, 30107), (270, 30305), (278, 30362), (Start: 279 @30365 has 1 MA's), (320, 30515), (326, 30530), (333, 30560), (341, 30581), (382, 30698), (385, 30707), (387, 30722), (390, 30740), (396, 30779), (401, 30827), (407, 30848), (416, 30917), (420, 30938),

Gene: Rimmer_97 Start: 58390, Stop: 59805, Start Num: 78
Candidate Starts for Rimmer_97:
(32, 58243), (43, 58273), (55, 58321), (58, 58336), (Start: 61 @58348 has 1 MA's), (Start: 78 @58390 has 73 MA's), (84, 58408), (Start: 97 @58504 has 2 MA's), (119, 58549), (141, 58633), (176, 58813), (193, 58846), (255, 59008), (258, 59017), (Start: 279 @59116 has 1 MA's), (284, 59146), (285, 59158), (397, 59668), (399, 59701),

Gene: RitaG_62 Start: 41971, Stop: 43485, Start Num: 73
Candidate Starts for RitaG_62:
(16, 41794), (Start: 73 @41971 has 29 MA's), (87, 42028), (92, 42064), (Start: 97 @42097 has 2 MA's), (129, 42319), (133, 42361), (Start: 147 @42487 has 1 MA's), (149, 42505), (162, 42565), (181, 42607), (187, 42619), (213, 42712), (220, 42736), (243, 42796), (Start: 279 @42919 has 1 MA's), (283, 42940), (284, 42949), (303, 43042), (355, 43222), (379, 43342), (384, 43402), (390, 43435), (392, 43444), (393, 43447),

Gene: RiverMonster_99 Start: 58856, Stop: 60079, Start Num: 78
Candidate Starts for RiverMonster_99:
(32, 58709), (43, 58739), (55, 58787), (58, 58802), (Start: 61 @58814 has 1 MA's), (Start: 78 @58856 has 73 MA's), (84, 58874), (Start: 97 @58970 has 2 MA's), (119, 59015), (141, 59099), (176, 59222), (226, 59267), (237, 59279), (Start: 279 @59384 has 1 MA's), (283, 59405), (284, 59414), (289, 59450), (306, 59513), (341, 59615), (342, 59618), (356, 59681), (390, 59900), (397, 59942), (399, 59975), (402, 59990),

Gene: Rohr_60 Start: 41323, Stop: 40028, Start Num: 79
Candidate Starts for Rohr_60:
(Start: 79 @41323 has 53 MA's), (Start: 97 @41215 has 2 MA's), (151, 40993), (161, 40951), (198, 40888), (268, 40765), (Start: 279 @40711 has 1 MA's), (283, 40690), (284, 40681), (324, 40543), (341, 40480), (342, 40477), (360, 40399), (379, 40291), (390, 40204), (397, 40162), (399, 40129),

Gene: Royals2015_69 Start: 42774, Stop: 44306, Start Num: 73
Candidate Starts for Royals2015_69:
(16, 42597), (21, 42603), (26, 42612), (36, 42660), (53, 42717), (Start: 73 @42774 has 29 MA's), (87, 42831), (89, 42843), (Start: 97 @42900 has 2 MA's), (104, 42954), (133, 43167), (134, 43170), (136, 43191), (191, 43461), (202, 43509), (211, 43545), (243, 43635), (252, 43653), (Start: 279 @43776 has 1 MA's), (282, 43794), (284, 43806), (285, 43818), (291, 43863), (315, 43911), (368, 44106), (379, 44163), (384, 44223), (390, 44256), (392, 44265), (393, 44268),

Gene: Ruchi_43 Start: 29375, Stop: 30694, Start Num: 69
Candidate Starts for Ruchi_43:
(Start: 65 @29366 has 4 MA's), (Start: 69 @29375 has 42 MA's), (87, 29435), (92, 29471), (105, 29531), (121, 29585), (125, 29609), (130, 29624), (133, 29645), (140, 29702), (144, 29750), (150, 29801), (163, 29852), (194, 29942), (202, 29981), (232, 30053), (280, 30203), (341, 30332), (377, 30371), (379, 30404), (390, 30491), (396, 30530), (416, 30668),

Gene: Rufus_60 Start: 40606, Stop: 39494, Start Num: 79
Candidate Starts for Rufus_60:
(Start: 79 @40606 has 53 MA's), (Start: 97 @40498 has 2 MA's), (119, 40453), (141, 40369), (268, 40246), (Start: 279 @40192 has 1 MA's), (284, 40162), (289, 40126), (324, 40024), (341, 39961), (342, 39958), (360, 39880), (379, 39772), (387, 39688), (388, 39679), (390, 39670), (395, 39649), (396, 39631), (399, 39595),

Gene: Sagefire_61 Start: 42000, Stop: 40702, Start Num: 79
Candidate Starts for Sagefire_61:
(Start: 79 @42000 has 53 MA's), (Start: 97 @41892 has 2 MA's), (119, 41847), (141, 41763), (149, 41682), (185, 41544), (206, 41472), (Start: 279 @41226 has 1 MA's), (283, 41205), (284, 41196), (289, 41160), (305, 41118), (366, 41019), (379, 40965), (390, 40878), (397, 40836), (399, 40803),

Gene: Sanya_57 Start: 41165, Stop: 39816, Start Num: 79
Candidate Starts for Sanya_57:

(Start: 79 @41165 has 53 MA's), (Start: 97 @41057 has 2 MA's), (119, 41012), (141, 40928), (149, 40847), (189, 40697), (201, 40649), (210, 40613), (234, 40544), (243, 40523), (252, 40505), (Start: 279 @40382 has 1 MA's), (283, 40361), (284, 40352), (285, 40340), (310, 40253), (341, 40151), (342, 40148), (379, 40094), (387, 40010), (388, 40001), (390, 39992), (395, 39971), (396, 39953), (399, 39917),

Gene: Sassay_94 Start: 57118, Stop: 58230, Start Num: 78
Candidate Starts for Sassay_94:
(32, 56971), (43, 57001), (55, 57049), (58, 57064), (Start: 61 @57076 has 1 MA's), (Start: 78 @57118 has 73 MA's), (84, 57136), (Start: 97 @57232 has 2 MA's), (119, 57277), (141, 57361), (174, 57484), (196, 57529), (224, 57541), (Start: 279 @57646 has 1 MA's), (284, 57676), (289, 57712), (379, 57949), (390, 58051), (397, 58093), (399, 58126), (402, 58141),

Gene: SassyB_63 Start: 42020, Stop: 43417, Start Num: 70
Candidate Starts for SassyB_63:
(41, 41912), (Start: 70 @42020 has 11 MA's), (83, 42050), (87, 42080), (92, 42116), (Start: 97 @42149 has 2 MA's), (132, 42326), (133, 42332), (134, 42335), (135, 42353), (136, 42356), (141, 42395), (Start: 147 @42458 has 1 MA's), (149, 42476), (178, 42521), (Start: 279 @42692 has 1 MA's), (283, 42713), (284, 42722), (289, 42758), (324, 42860), (341, 42923), (342, 42926), (390, 43211), (393, 43223), (396, 43250), (411, 43367),

Gene: Seagreen_72 Start: 45196, Stop: 46428, Start Num: 69
Candidate Starts for Seagreen_72:
(10, 45031), (56, 45172), (Start: 69 @45196 has 42 MA's), (75, 45202), (87, 45256), (92, 45292), (Start: 97 @45325 has 2 MA's), (113, 45415), (120, 45442), (132, 45505), (133, 45511), (134, 45514), (135, 45532), (136, 45535), (175, 45700), (225, 45730), (Start: 279 @45871 has 1 MA's), (283, 45892), (284, 45901), (289, 45937), (341, 46096), (342, 46099), (379, 46285), (381, 46330), (384, 46345), (390, 46378), (392, 46387), (393, 46390),

Gene: ShamWow_99 Start: 58977, Stop: 60200, Start Num: 78
Candidate Starts for ShamWow_99:
(32, 58830), (43, 58860), (55, 58908), (58, 58923), (Start: 61 @58935 has 1 MA's), (Start: 78 @58977 has 73 MA's), (84, 58995), (Start: 97 @59091 has 2 MA's), (119, 59136), (141, 59220), (176, 59343), (226, 59388), (237, 59400), (Start: 279 @59505 has 1 MA's), (283, 59526), (284, 59535), (289, 59571), (306, 59634), (341, 59736), (342, 59739), (356, 59802), (390, 60021), (397, 60063), (399, 60096), (402, 60111),

Gene: Shauna1_72 Start: 45625, Stop: 46881, Start Num: 70
Candidate Starts for Shauna1_72:
(57, 45592), (Start: 70 @45625 has 11 MA's), (83, 45655), (87, 45685), (92, 45721), (Start: 97 @45754 has 2 MA's), (119, 45799), (141, 45883), (Start: 147 @45946 has 1 MA's), (166, 46006), (242, 46093), (248, 46099), (Start: 279 @46189 has 1 MA's), (284, 46219), (289, 46255), (341, 46399), (342, 46402), (369, 46504), (378, 46546), (379, 46573), (386, 46645), (387, 46657), (390, 46675), (393, 46687), (395, 46696), (396, 46714), (411, 46831),

Gene: Shen_42 Start: 29089, Stop: 30417, Start Num: 65
Candidate Starts for Shen_42:
(17, 28939), (27, 28954), (Start: 65 @29089 has 4 MA's), (Start: 69 @29098 has 42 MA's), (92, 29194), (102, 29242), (105, 29254), (121, 29308), (125, 29332), (130, 29347), (133, 29368), (140, 29425), (144, 29473), (150, 29524), (163, 29575), (194, 29665), (209, 29731), (212, 29743), (Start: 279 @29923 has 1 MA's), (282, 29941), (341, 30055), (377, 30094), (379, 30127), (390, 30214), (396, 30253), (397, 30256), (399, 30289), (408, 30328), (409, 30355), (410, 30361), (416, 30391), (420, 30412),

Gene: ShereKhan_97 Start: 59410, Stop: 60639, Start Num: 78
Candidate Starts for ShereKhan_97:
(32, 59263), (43, 59293), (55, 59341), (58, 59356), (Start: 61 @59368 has 1 MA's), (Start: 78 @59410 has 73 MA's), (84, 59428), (Start: 97 @59524 has 2 MA's), (119, 59569), (141, 59653), (176, 59776), (226, 59821), (237, 59833), (Start: 279 @59938 has 1 MA's), (283, 59959), (284, 59968), (289, 60004), (328, 60106), (341, 60169), (342, 60172), (361, 60250), (379, 60358), (390, 60460), (397, 60502), (399, 60535), (402, 60550),

Gene: Shipwreck_57 Start: 38422, Stop: 39615, Start Num: 73
Candidate Starts for Shipwreck_57:
(1, 37987), (54, 38359), (Start: 73 @38422 has 29 MA's), (86, 38455), (87, 38479), (92, 38515), (93, 38518), (Start: 97 @38548 has 2 MA's), (113, 38638), (120, 38665), (132, 38728), (133, 38734), (134, 38737), (135, 38755), (136, 38758), (260, 39001), (262, 39004), (282, 39106), (285, 39130), (297, 39187), (298, 39193), (319, 39223), (322, 39229), (342, 39295), (358, 39358), (379, 39472), (384, 39532), (390, 39565), (392, 39574), (393, 39577),

Gene: ShortQueendom_54 Start: 37970, Stop: 36855, Start Num: 79
Candidate Starts for ShortQueendom_54:
(Start: 79 @37970 has 53 MA's), (Start: 97 @37862 has 2 MA's), (119, 37817), (141, 37733), (157, 37610), (173, 37574), (Start: 279 @37427 has 1 MA's), (284, 37397), (289, 37361), (314, 37283), (325, 37256), (327, 37250), (341, 37190), (342, 37187), (379, 37133), (386, 37061), (387, 37049), (388, 37040), (390, 37031), (395, 37010), (396, 36992), (399, 36956),

Gene: Simpliphy_98 Start: 58418, Stop: 59650, Start Num: 78
Candidate Starts for Simpliphy_98:
(32, 58271), (43, 58301), (55, 58349), (58, 58364), (Start: 61 @58376 has 1 MA's), (Start: 78 @58418 has 73 MA's), (84, 58436), (Start: 97 @58532 has 2 MA's), (119, 58577), (141, 58661), (165, 58784), (Start: 279 @58955 has 1 MA's), (284, 58985), (341, 59180), (342, 59183), (390, 59471), (397, 59513), (399, 59546), (402, 59561),

Gene: SirDuracell_99 Start: 57794, Stop: 59017, Start Num: 78
Candidate Starts for SirDuracell_99:
(32, 57647), (43, 57677), (55, 57725), (58, 57740), (Start: 61 @57752 has 1 MA's), (Start: 78 @57794 has 73 MA's), (84, 57812), (Start: 97 @57908 has 2 MA's), (119, 57953), (141, 58037), (Start: 279 @58325 has 1 MA's), (282, 58343), (284, 58355), (285, 58367), (306, 58454), (342, 58559), (356, 58622), (379, 58736), (397, 58880), (399, 58913),

Gene: Slagathor_61 Start: 42332, Stop: 40935, Start Num: 79
Candidate Starts for Slagathor_61:
(Start: 79 @42332 has 53 MA's), (Start: 97 @42224 has 2 MA's), (119, 42179), (135, 42137), (136, 42134), (141, 42095), (170, 41915), (214, 41798), (262, 41696), (Start: 279 @41609 has 1 MA's), (284, 41579), (285, 41567), (289, 41543), (338, 41402), (340, 41399), (359, 41321), (379, 41213), (387, 41129), (388, 41120), (390, 41111), (395, 41090), (396, 41072), (399, 41036),

Gene: Smairt_62 Start: 42808, Stop: 41627, Start Num: 33
Candidate Starts for Smairt_62:
(Start: 33 @42808 has 6 MA's), (64, 42700), (119, 42469), (Start: 279 @42067 has 1 MA's), (284, 42037), (289, 42001), (342, 41914), (379, 41860), (390, 41758), (400, 41674),

Gene: Smeagol_61 Start: 42155, Stop: 41085, Start Num: 79
Candidate Starts for Smeagol_61:

(Start: 79 @42155 has 53 MA's), (Start: 97 @42047 has 2 MA's), (148, 42002), (198, 41918), (268, 41795), (Start: 279 @41741 has 1 MA's), (283, 41720), (284, 41711), (289, 41675), (301, 41633), (342, 41534), (375, 41405), (379, 41363), (390, 41261), (399, 41186),

Gene: Sonah_54 Start: 36119, Stop: 37312, Start Num: 73
Candidate Starts for Sonah_54:
(1, 35684), (54, 36056), (Start: 73 @36119 has 29 MA's), (86, 36152), (87, 36176), (92, 36212), (93, 36215), (Start: 97 @36245 has 2 MA's), (113, 36335), (120, 36362), (132, 36425), (133, 36431), (134, 36434), (135, 36452), (136, 36455), (260, 36698), (262, 36701), (282, 36803), (285, 36827), (297, 36884), (298, 36890), (319, 36920), (322, 36926), (342, 36992), (358, 37055), (379, 37169), (384, 37229), (390, 37262), (392, 37271), (393, 37274),

Gene: SophKB_96 Start: 57775, Stop: 58998, Start Num: 78
Candidate Starts for SophKB_96:
(32, 57628), (43, 57658), (55, 57706), (58, 57721), (Start: 61 @57733 has 1 MA's), (Start: 78 @57775 has 73 MA's), (84, 57793), (Start: 97 @57889 has 2 MA's), (119, 57934), (141, 58018), (176, 58141), (226, 58186), (237, 58198), (Start: 279 @58303 has 1 MA's), (283, 58324), (284, 58333), (289, 58369), (306, 58432), (341, 58534), (342, 58537), (356, 58600), (390, 58819), (397, 58861), (399, 58894), (402, 58909),

Gene: Sotrice96_100 Start: 58684, Stop: 59904, Start Num: 78
Candidate Starts for Sotrice96_100:
(32, 58537), (43, 58567), (55, 58615), (58, 58630), (Start: 61 @58642 has 1 MA's), (Start: 78 @58684 has 73 MA's), (84, 58702), (Start: 97 @58798 has 2 MA's), (119, 58843), (141, 58927), (157, 59050), (188, 59095), (203, 59107), (Start: 279 @59212 has 1 MA's), (283, 59233), (284, 59242), (285, 59254), (289, 59278), (379, 59623), (386, 59695), (390, 59725), (397, 59767), (399, 59800), (402, 59815),

Gene: Spoonbill_65 Start: 42447, Stop: 43211, Start Num: 147
Candidate Starts for Spoonbill_65:
(16, 41754), (Start: 73 @41931 has 29 MA's), (87, 41988), (92, 42024), (Start: 97 @42057 has 2 MA's), (129, 42279), (133, 42321), (Start: 147 @42447 has 1 MA's), (149, 42465), (173, 42507), (219, 42537), (Start: 279 @42666 has 1 MA's), (282, 42684), (285, 42708), (326, 42843), (334, 42873), (342, 42909), (368, 43011), (379, 43068), (384, 43128), (390, 43161), (392, 43170), (393, 43173),

Gene: Stark_100 Start: 58739, Stop: 59962, Start Num: 78
Candidate Starts for Stark_100:
(32, 58592), (43, 58622), (55, 58670), (58, 58685), (Start: 61 @58697 has 1 MA's), (Start: 78 @58739 has 73 MA's), (84, 58757), (Start: 97 @58853 has 2 MA's), (119, 58898), (141, 58982), (176, 59105), (226, 59150), (237, 59162), (Start: 279 @59267 has 1 MA's), (283, 59288), (284, 59297), (289, 59333), (306, 59396), (341, 59498), (342, 59501), (356, 59564), (390, 59783), (397, 59825), (399, 59858), (402, 59873),

Gene: StevieRay_58 Start: 38434, Stop: 39633, Start Num: 67
Candidate Starts for StevieRay_58:
(Start: 67 @38434 has 1 MA's), (87, 38497), (92, 38533), (93, 38536), (Start: 97 @38566 has 2 MA's), (112, 38650), (135, 38764), (Start: 147 @38869 has 1 MA's), (149, 38887), (173, 38929), (219, 38959), (Start: 279 @39088 has 1 MA's), (282, 39106), (285, 39130), (326, 39265), (334, 39295), (342, 39331), (368, 39433), (379, 39490), (384, 39550), (390, 39583), (392, 39592), (393, 39595),

Gene: StuartMinion_39 Start: 26655, Stop: 28058, Start Num: 68
Candidate Starts for StuartMinion_39:
(Start: 68 @26655 has 21 MA's), (91, 26742), (92, 26751), (102, 26799), (105, 26811), (121, 26865), (125, 26889), (130, 26904), (136, 26949), (140, 26982), (144, 27030), (146, 27036), (150, 27081),

(194, 27222), (208, 27285), (232, 27333), (270, 27420), (278, 27477), (280, 27483), (290, 27552), (320, 27630), (326, 27645), (333, 27675), (341, 27696), (382, 27813), (385, 27822), (390, 27855), (395, 27876), (401, 27942), (416, 28032),

Gene: Swole_60 Start: 40236, Stop: 39139, Start Num: 79
Candidate Starts for Swole_60:
(Start: 79 @40236 has 53 MA's), (Start: 97 @40128 has 2 MA's), (148, 40083), (172, 40041), (180, 40038), (198, 39999), (268, 39876), (Start: 279 @39822 has 1 MA's), (283, 39801), (284, 39792), (324, 39654), (341, 39591), (342, 39588), (360, 39510), (379, 39402), (390, 39315), (397, 39273), (399, 39240),

Gene: Target_60 Start: 39423, Stop: 38428, Start Num: 79
Candidate Starts for Target_60:
(Start: 79 @39423 has 53 MA's), (Start: 97 @39315 has 2 MA's), (119, 39270), (141, 39186), (209, 39063), (Start: 279 @39009 has 1 MA's), (284, 38979), (342, 38886), (345, 38874), (379, 38706), (387, 38622), (388, 38613), (390, 38604), (395, 38583), (396, 38565), (399, 38529),

Gene: TaylorSipht_45 Start: 29940, Stop: 31352, Start Num: 69
Candidate Starts for TaylorSipht_45:
(3, 29658), (7, 29715), (Start: 65 @29931 has 4 MA's), (Start: 69 @29940 has 42 MA's), (102, 30084), (105, 30096), (121, 30150), (125, 30174), (130, 30189), (139, 30258), (140, 30267), (144, 30315), (150, 30366), (194, 30507), (202, 30546), (278, 30762), (282, 30783), (322, 30927), (341, 30990), (377, 31029), (379, 31062), (382, 31107), (390, 31149), (397, 31191), (410, 31296), (416, 31326),

Gene: TeamEdward_99 Start: 58988, Stop: 60166, Start Num: 78
Candidate Starts for TeamEdward_99:
(32, 58841), (43, 58871), (55, 58919), (58, 58934), (Start: 61 @58946 has 1 MA's), (Start: 78 @58988 has 73 MA's), (84, 59006), (Start: 97 @59102 has 2 MA's), (119, 59147), (141, 59231), (157, 59354), (188, 59399), (203, 59411), (Start: 279 @59516 has 1 MA's), (283, 59537), (284, 59546), (289, 59582), (341, 59723), (342, 59726), (365, 59828), (379, 59885), (390, 59987), (397, 60029), (399, 60062), (402, 60077),

Gene: TeardropMSU_95 Start: 57765, Stop: 58985, Start Num: 78
Candidate Starts for TeardropMSU_95:
(32, 57618), (43, 57648), (55, 57696), (58, 57711), (Start: 61 @57723 has 1 MA's), (Start: 78 @57765 has 73 MA's), (84, 57783), (Start: 97 @57879 has 2 MA's), (119, 57924), (141, 58008), (157, 58131), (188, 58176), (203, 58188), (Start: 279 @58293 has 1 MA's), (283, 58314), (284, 58323), (285, 58335), (289, 58359), (379, 58704), (386, 58776), (390, 58806), (397, 58848), (399, 58881), (402, 58896),

Gene: Teaspoon_100 Start: 58617, Stop: 59861, Start Num: 78
Candidate Starts for Teaspoon_100:
(32, 58470), (43, 58500), (55, 58548), (58, 58563), (Start: 61 @58575 has 1 MA's), (Start: 78 @58617 has 73 MA's), (84, 58635), (Start: 97 @58731 has 2 MA's), (119, 58776), (141, 58860), (176, 58983), (245, 59070), (248, 59076), (Start: 279 @59166 has 1 MA's), (283, 59187), (284, 59196), (289, 59232), (306, 59295), (341, 59397), (342, 59400), (356, 59463), (364, 59499), (379, 59580), (390, 59682), (397, 59724), (399, 59757), (402, 59772),

Gene: Techage_58 Start: 37733, Stop: 39016, Start Num: 34
Candidate Starts for Techage_58:
(28, 37697), (Start: 34 @37733 has 7 MA's), (Start: 62 @37826 has 1 MA's), (Start: 69 @37844 has 42 MA's), (86, 37880), (87, 37904), (92, 37940), (Start: 97 @37973 has 2 MA's), (113, 38063), (132, 38132), (133, 38138), (134, 38141), (135, 38159), (136, 38162), (173, 38324), (230, 38366), (282, 38507), (285, 38531), (297, 38588), (298, 38594), (319, 38624), (322, 38630), (342, 38696), (358,

38759), (379, 38873), (381, 38918), (384, 38933), (390, 38966), (392, 38975), (393, 38978),

Gene: Terminus_102 Start: 59873, Stop: 60904, Start Num: 78
Candidate Starts for Terminus_102:
(32, 59726), (43, 59756), (55, 59804), (58, 59819), (Start: 61 @59831 has 1 MA's), (Start: 78 @59873 has 73 MA's), (84, 59891), (Start: 97 @59987 has 2 MA's), (119, 60032), (141, 60116), (Start: 279 @60320 has 1 MA's), (284, 60350), (289, 60386), (379, 60623), (390, 60725), (397, 60767), (399, 60800), (402, 60815),

Gene: Thresher_101 Start: 59519, Stop: 60742, Start Num: 78
Candidate Starts for Thresher_101:
(32, 59372), (43, 59402), (55, 59450), (58, 59465), (Start: 61 @59477 has 1 MA's), (Start: 78 @59519 has 73 MA's), (84, 59537), (Start: 97 @59633 has 2 MA's), (119, 59678), (141, 59762), (176, 59885), (226, 59930), (237, 59942), (Start: 279 @60047 has 1 MA's), (283, 60068), (284, 60077), (289, 60113), (306, 60176), (341, 60278), (342, 60281), (356, 60344), (390, 60563), (397, 60605), (399, 60638), (402, 60653),

Gene: ThulaThula_61 Start: 41045, Stop: 42361, Start Num: 73
Candidate Starts for ThulaThula_61:
(Start: 73 @41045 has 29 MA's), (87, 41102), (93, 41141), (Start: 97 @41171 has 2 MA's), (115, 41258), (122, 41270), (126, 41306), (149, 41501), (162, 41555), (167, 41576), (207, 41684), (208, 41687), (226, 41726), (264, 41783), (267, 41789), (272, 41819), (273, 41825), (281, 41861), (286, 41891), (304, 41954), (379, 42071), (390, 42158), (393, 42170), (395, 42179), (396, 42197), (413, 42326),

Gene: Toad24_47 Start: 31237, Stop: 32556, Start Num: 69
Candidate Starts for Toad24_47:
(17, 31078), (27, 31093), (Start: 65 @31228 has 4 MA's), (Start: 69 @31237 has 42 MA's), (92, 31333), (102, 31381), (105, 31393), (121, 31447), (125, 31471), (130, 31486), (133, 31507), (140, 31564), (144, 31612), (150, 31663), (163, 31714), (194, 31804), (209, 31870), (212, 31882), (Start: 279 @32062 has 1 MA's), (282, 32080), (341, 32194), (377, 32233), (379, 32266), (390, 32353), (396, 32392), (397, 32395), (399, 32428), (408, 32467), (409, 32494), (410, 32500), (416, 32530), (420, 32551),

Gene: Tomaszewski_94 Start: 58249, Stop: 59442, Start Num: 78
Candidate Starts for Tomaszewski_94:
(32, 58102), (43, 58132), (55, 58180), (58, 58195), (Start: 61 @58207 has 1 MA's), (Start: 78 @58249 has 73 MA's), (84, 58267), (Start: 97 @58363 has 2 MA's), (119, 58408), (141, 58492), (219, 58732), (Start: 279 @58858 has 1 MA's), (283, 58879), (284, 58888), (289, 58924), (341, 58978), (342, 58981), (379, 59161), (397, 59305), (399, 59338),

Gene: Tortoise12_54 Start: 34860, Stop: 36236, Start Num: 66
Candidate Starts for Tortoise12_54:
(Start: 66 @34860 has 1 MA's), (83, 34890), (87, 34920), (Start: 97 @34989 has 2 MA's), (122, 35088), (126, 35124), (134, 35178), (135, 35196), (149, 35319), (155, 35361), (207, 35529), (208, 35532), (226, 35571), (269, 35652), (285, 35763), (286, 35766), (304, 35829), (379, 35946), (390, 36033), (393, 36045), (396, 36072), (397, 36075),

Gene: Tote_55 Start: 37503, Stop: 36406, Start Num: 79
Candidate Starts for Tote_55:
(Start: 79 @37503 has 53 MA's), (Start: 97 @37395 has 2 MA's), (148, 37350), (172, 37308), (180, 37305), (198, 37266), (268, 37143), (Start: 279 @37089 has 1 MA's), (283, 37068), (284, 37059), (324, 36921), (341, 36858), (342, 36855), (360, 36777), (379, 36669), (390, 36582), (397, 36540), (399,

36507),

Gene: Toto_97 Start: 58977, Stop: 60200, Start Num: 78
Candidate Starts for Toto_97:
(32, 58830), (43, 58860), (55, 58908), (58, 58923), (Start: 61 @58935 has 1 MA's), (Start: 78 @58977 has 73 MA's), (84, 58995), (Start: 97 @59091 has 2 MA's), (119, 59136), (141, 59220), (176, 59343), (226, 59388), (237, 59400), (Start: 279 @59505 has 1 MA's), (283, 59526), (284, 59535), (289, 59571), (306, 59634), (341, 59736), (342, 59739), (356, 59802), (390, 60021), (397, 60063), (399, 60096), (402, 60111),

Gene: Treddle_60 Start: 41704, Stop: 40559, Start Num: 79
Candidate Starts for Treddle_60:
(Start: 79 @41704 has 53 MA's), (Start: 97 @41596 has 2 MA's), (119, 41551), (141, 41467), (149, 41386), (173, 41308), (190, 41284), (223, 41233), (Start: 279 @41119 has 1 MA's), (283, 41098), (284, 41089), (289, 41053), (363, 40894), (366, 40891), (379, 40837), (387, 40753), (388, 40744), (390, 40735), (395, 40714),

Gene: Tuco_100 Start: 59845, Stop: 61065, Start Num: 78
Candidate Starts for Tuco_100:
(32, 59698), (43, 59728), (55, 59776), (58, 59791), (Start: 61 @59803 has 1 MA's), (Start: 78 @59845 has 73 MA's), (84, 59863), (Start: 97 @59959 has 2 MA's), (119, 60004), (141, 60088), (157, 60211), (188, 60256), (203, 60268), (Start: 279 @60373 has 1 MA's), (283, 60394), (284, 60403), (285, 60415), (289, 60439), (379, 60784), (386, 60856), (390, 60886), (397, 60928), (399, 60961), (402, 60976),

Gene: TwoPeat_61 Start: 41088, Stop: 39625, Start Num: 79
Candidate Starts for TwoPeat_61:
(Start: 79 @41088 has 53 MA's), (Start: 97 @40980 has 2 MA's), (119, 40935), (135, 40893), (136, 40890), (141, 40851), (175, 40653), (182, 40638), (215, 40527), (268, 40392), (Start: 279 @40308 has 1 MA's), (283, 40287), (284, 40278), (285, 40266), (308, 40179), (341, 40077), (342, 40074), (360, 39996), (379, 39888), (390, 39801), (397, 39759), (399, 39726),

Gene: Ukulele_94 Start: 58344, Stop: 59462, Start Num: 97
Candidate Starts for Ukulele_94:
(Start: 97 @58344 has 2 MA's), (119, 58389), (141, 58473), (165, 58596), (Start: 279 @58767 has 1 MA's), (284, 58797), (341, 58992), (342, 58995), (390, 59283), (397, 59325), (399, 59358), (402, 59373),

Gene: Vidya_52 Start: 35918, Stop: 37111, Start Num: 73
Candidate Starts for Vidya_52:
(54, 35855), (Start: 73 @35918 has 29 MA's), (86, 35951), (87, 35975), (92, 36011), (93, 36014), (Start: 97 @36044 has 2 MA's), (113, 36134), (120, 36161), (132, 36224), (133, 36230), (134, 36233), (135, 36251), (136, 36254), (260, 36497), (262, 36500), (282, 36602), (285, 36626), (297, 36683), (298, 36689), (319, 36719), (322, 36725), (342, 36791), (358, 36854), (379, 36968), (384, 37028), (390, 37061), (392, 37070), (393, 37073),

Gene: Vulpecula_43 Start: 29052, Stop: 30371, Start Num: 69
Candidate Starts for Vulpecula_43:
(Start: 65 @29043 has 4 MA's), (Start: 69 @29052 has 42 MA's), (92, 29148), (105, 29208), (121, 29262), (125, 29286), (130, 29301), (133, 29322), (140, 29379), (144, 29427), (150, 29478), (163, 29529), (194, 29619), (202, 29658), (232, 29730), (280, 29880), (377, 30048), (379, 30081), (390, 30168), (396, 30207), (416, 30345),

Gene: Westrich_53 Start: 30921, Stop: 32240, Start Num: 69

Candidate Starts for Westrich_53:
(17, 30762), (27, 30777), (Start: 65 @30912 has 4 MA's), (Start: 69 @30921 has 42 MA's), (92, 31017), (102, 31065), (105, 31077), (121, 31131), (125, 31155), (130, 31170), (133, 31191), (140, 31248), (144, 31296), (150, 31347), (163, 31398), (194, 31488), (212, 31566), (282, 31764), (341, 31878), (377, 31917), (379, 31950), (390, 32037), (397, 32079), (399, 32112), (408, 32151), (409, 32178), (410, 32184), (416, 32214), (420, 32235),

Gene: WileyE_46 Start: 30037, Stop: 31356, Start Num: 69
Candidate Starts for WileyE_46:
(2, 29689), (Start: 65 @30028 has 4 MA's), (Start: 69 @30037 has 42 MA's), (92, 30133), (105, 30193), (121, 30247), (125, 30271), (130, 30286), (133, 30307), (140, 30364), (144, 30412), (150, 30463), (163, 30514), (194, 30604), (202, 30643), (232, 30715), (280, 30865), (341, 30994), (377, 31033), (379, 31066), (382, 31111), (390, 31153), (397, 31195), (399, 31228), (416, 31330),

Gene: Willez_94 Start: 57118, Stop: 58230, Start Num: 78
Candidate Starts for Willez_94:
(32, 56971), (43, 57001), (55, 57049), (58, 57064), (Start: 61 @57076 has 1 MA's), (Start: 78 @57118 has 73 MA's), (84, 57136), (Start: 97 @57232 has 2 MA's), (119, 57277), (141, 57361), (174, 57484), (196, 57529), (224, 57541), (Start: 279 @57646 has 1 MA's), (284, 57676), (289, 57712), (379, 57949), (390, 58051), (397, 58093), (399, 58126), (402, 58141),

Gene: Wocket_66 Start: 42075, Stop: 43580, Start Num: 73
Candidate Starts for Wocket_66:
(8, 41838), (9, 41850), (25, 41898), (35, 41946), (Start: 73 @42075 has 29 MA's), (83, 42102), (87, 42132), (89, 42144), (92, 42168), (Start: 97 @42201 has 2 MA's), (107, 42258), (111, 42282), (152, 42576), (194, 42687), (200, 42717), (209, 42759), (217, 42789), (221, 42801), (246, 42858), (268, 42903), (333, 43185), (349, 43248), (387, 43359), (390, 43377), (403, 43476), (410, 43524),

Gene: Xeno_59 Start: 36538, Stop: 38031, Start Num: 34
Candidate Starts for Xeno_59:
(17, 36487), (28, 36502), (Start: 34 @36538 has 7 MA's), (Start: 69 @36637 has 42 MA's), (83, 36667), (87, 36697), (92, 36733), (Start: 97 @36766 has 2 MA's), (113, 36856), (120, 36883), (132, 36946), (133, 36952), (134, 36955), (149, 37096), (173, 37138), (175, 37141), (Start: 279 @37342 has 1 MA's), (284, 37372), (341, 37567), (342, 37570), (367, 37678), (379, 37738), (390, 37825), (393, 37837), (395, 37846), (396, 37864), (411, 37981),

Gene: Xula_53 Start: 36811, Stop: 38073, Start Num: 70
Candidate Starts for Xula_53:
(24, 36643), (30, 36658), (37, 36694), (64, 36793), (Start: 70 @36811 has 11 MA's), (86, 36847), (87, 36871), (92, 36907), (Start: 97 @36940 has 2 MA's), (119, 36985), (Start: 147 @37132 has 1 MA's), (149, 37150), (229, 37234), (Start: 279 @37354 has 1 MA's), (283, 37375), (284, 37384), (289, 37420), (306, 37483), (341, 37585), (342, 37588), (353, 37651), (379, 37768), (390, 37870), (393, 37882),

Gene: Zeuska_58 Start: 41282, Stop: 40221, Start Num: 79
Candidate Starts for Zeuska_58:
(Start: 79 @41282 has 53 MA's), (Start: 97 @41174 has 2 MA's), (119, 41129), (141, 41045), (231, 40922), (Start: 279 @40868 has 1 MA's), (283, 40847), (284, 40838), (289, 40802), (342, 40658), (370, 40556), (379, 40499), (386, 40427), (387, 40415), (388, 40406), (390, 40397), (395, 40376), (396, 40358), (399, 40322),

Gene: Zhuangyuan_49 Start: 30152, Stop: 31570, Start Num: 68
Candidate Starts for Zhuangyuan_49:

(Start: 68 @30152 has 21 MA's), (87, 30212), (91, 30239), (92, 30248), (102, 30296), (105, 30308), (121, 30362), (125, 30386), (133, 30422), (140, 30479), (144, 30527), (146, 30533), (150, 30578), (194, 30719), (209, 30785), (270, 30920), (282, 30998), (285, 31022), (307, 31106), (321, 31139), (341, 31205), (390, 31367), (392, 31376), (397, 31409), (401, 31454), (407, 31475), (417, 31547), (419, 31562),

Gene: Zilizebeth_63 Start: 39188, Stop: 40495, Start Num: 34
Candidate Starts for Zilizebeth_63:
(19, 39137), (28, 39152), (Start: 34 @39188 has 7 MA's), (Start: 62 @39281 has 1 MA's), (Start: 69 @39299 has 42 MA's), (86, 39335), (87, 39359), (92, 39395), (Start: 97 @39428 has 2 MA's), (113, 39518), (120, 39545), (132, 39608), (133, 39614), (134, 39617), (135, 39635), (136, 39638), (260, 39881), (262, 39884), (282, 39986), (285, 40010), (297, 40067), (298, 40073), (319, 40103), (322, 40109), (342, 40175), (358, 40238), (379, 40352), (384, 40412), (390, 40445), (392, 40454), (393, 40457),

Gene: Zixiang_44 Start: 30602, Stop: 31921, Start Num: 69
Candidate Starts for Zixiang_44:
(17, 30443), (27, 30458), (Start: 65 @30593 has 4 MA's), (Start: 69 @30602 has 42 MA's), (92, 30698), (102, 30746), (105, 30758), (121, 30812), (125, 30836), (130, 30851), (133, 30872), (140, 30929), (144, 30977), (150, 31028), (163, 31079), (194, 31169), (209, 31235), (212, 31247), (Start: 279 @31427 has 1 MA's), (282, 31445), (341, 31559), (377, 31598), (379, 31631), (390, 31718), (396, 31757), (397, 31760), (399, 31793), (408, 31832), (409, 31859), (410, 31865), (416, 31895), (420, 31916),