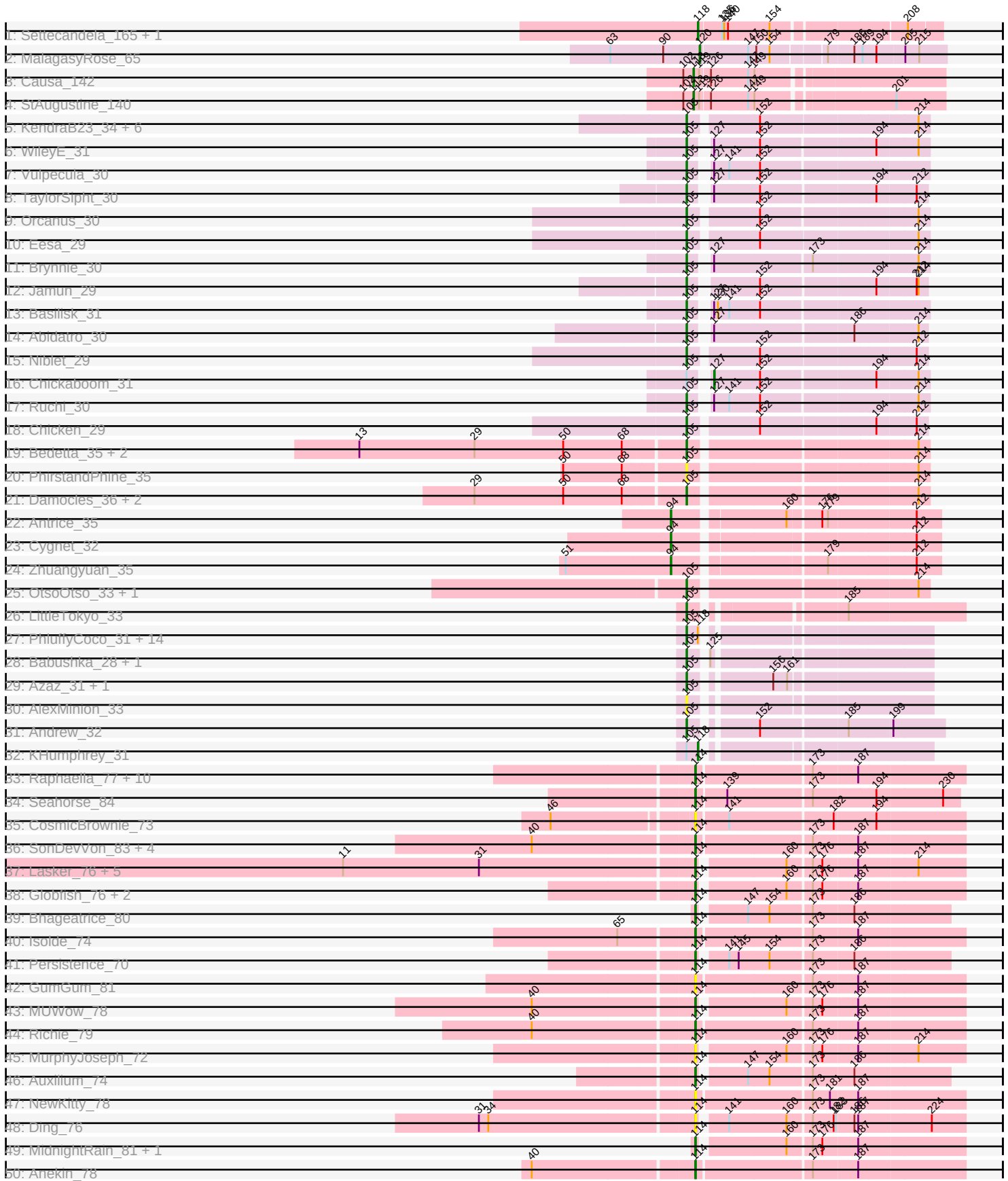
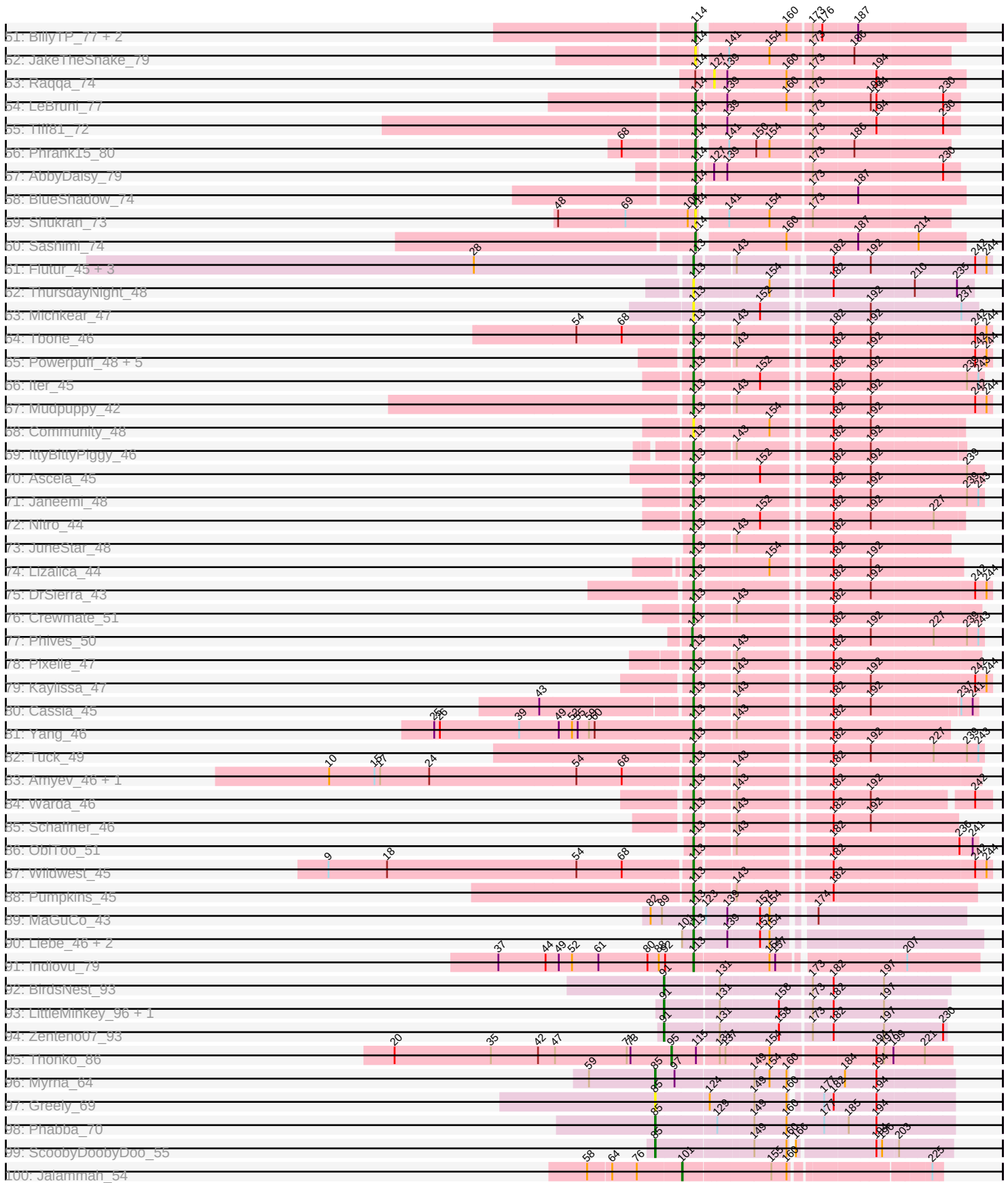


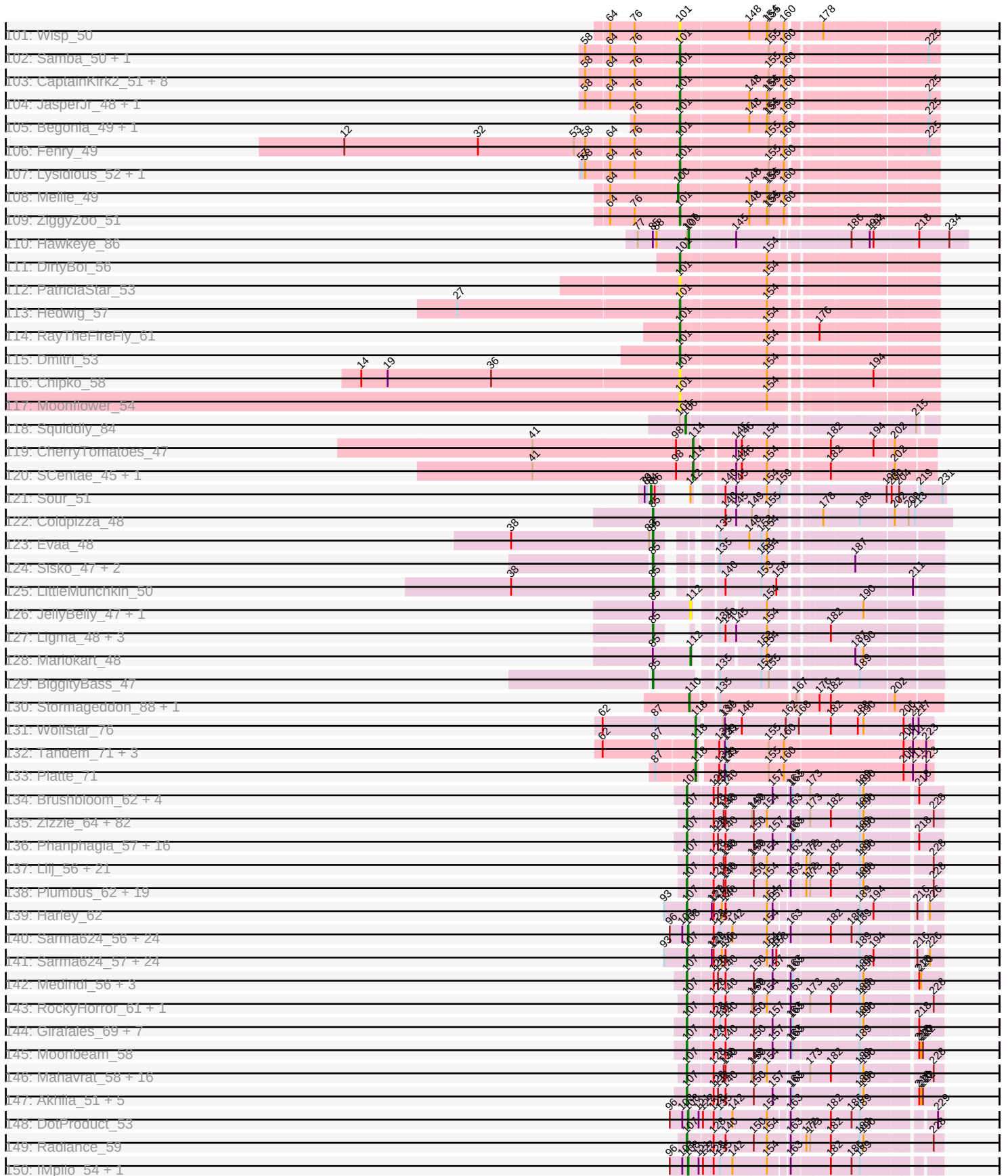
Zoomed Pham 311038



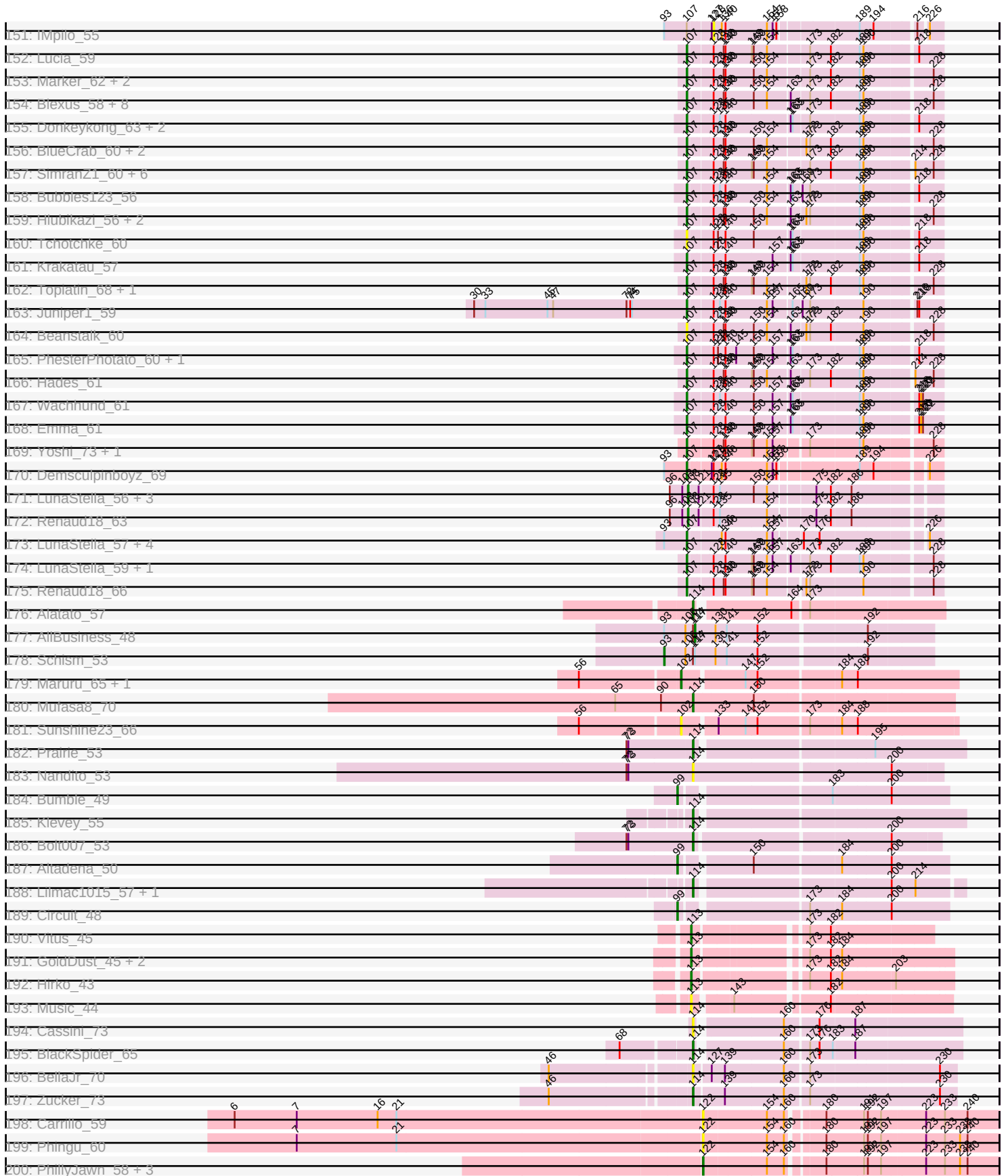
Zoomed Pham 311038



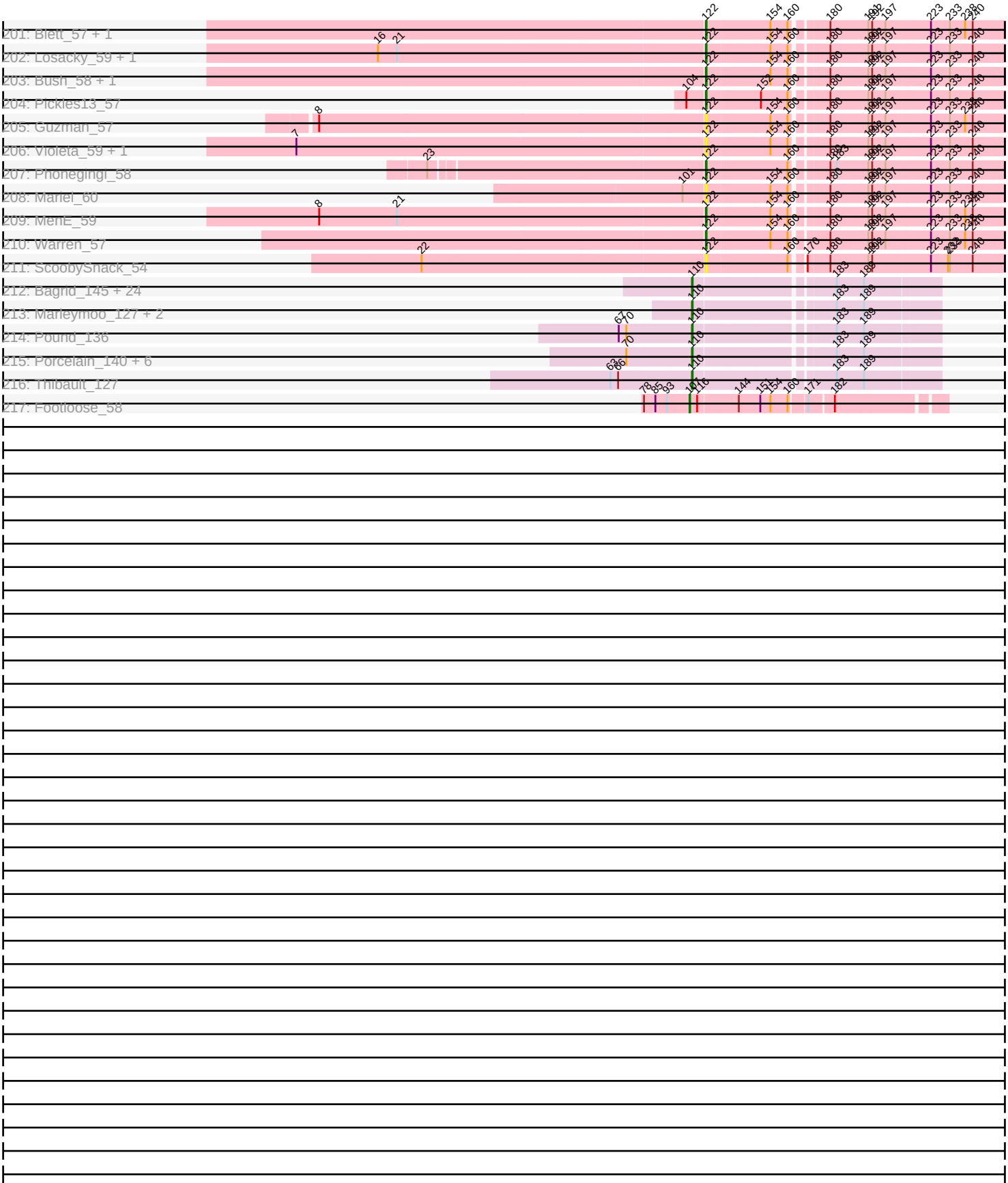
Zoomed Pham 311038



Zoomed Pham 311038



Zoomed Pham 311038



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 311038 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311038 has 603 members, 88 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_165, Phrappuccino_165
- Track 2 : MalagasyRose_65
- Track 3 : Causa_142
- Track 4 : StAugustine_140
- Track 5 : KendraB23_34, Westrich_33, Gravel_33, Pelletreau_33, Toad24_32, Amanises_32, Zixiang_29
- Track 6 : WileyE_31
- Track 7 : Vulpecula_30
- Track 8 : TaylorSipht_30
- Track 9 : Orcanus_30
- Track 10 : Eesa_29
- Track 11 : Brynnie_30
- Track 12 : Jamun_29
- Track 13 : Basilisk_31
- Track 14 : Abidatro_30
- Track 15 : Niblet_29
- Track 16 : Chickaboom_31
- Track 17 : Ruchi_30
- Track 18 : Chicken_29
- Track 19 : Bedetta_35, GramZayde_33, Pineda_34
- Track 20 : PhirstandPhine_35
- Track 21 : Damocles_36, Bibble12_33, Colusalem_33
- Track 22 : Antrice_35
- Track 23 : Cygnet_32
- Track 24 : Zhuangyuan_35
- Track 25 : OtsoOtso_33, Polka_32
- Track 26 : LittleTokyo_33
- Track 27 : PhluffyCoco_31, Atlantica_31, RedFox_31, Laphuphu24k_29, Amphitrite_31, AmiCi24_30, DanHam62_31, AdoptaAdorbs_30, Fingolfin_31, Juno112_30, Camara_31, Oppalora_30, HamCheese_31, Glotell_32, Rattail_31
- Track 28 : Babushka_28, Renna12_30
- Track 29 : Azaz_31, Leona_30
- Track 30 : AlexMinion_33
- Track 31 : Andrew_32
- Track 32 : KHumphrey_31
- Track 33 : Raphaella_77, Kabloowy_76, AdaS_72, Faja_79, BenchScraper_76, JellyBread_73, CookieBear_75, Mapleville_71, Sporco_78, Hestia_70,

YoungHarleezy_76

- Track 34 : Seahorse_84
- Track 35 : CosmicBrownie_73
- Track 36 : SonDevVon_83, Sakai_73, Gorpy_74, MaterMagnus_76, Aikyam_75
- Track 37 : Lasker_76, Crescenzo_79, DarwinJr_80, Hillester_80, BasketStar_76, RadFad_81
- Track 38 : Globfish_76, EvePickles_75, ThayneTheZag_81
- Track 39 : Bhageatrice_80
- Track 40 : Isolde_74
- Track 41 : Persistence_70
- Track 42 : GumGum_81
- Track 43 : MUWow_78
- Track 44 : Richie_79
- Track 45 : MurphyJoseph_72
- Track 46 : Auxilium_74
- Track 47 : NewKitty_78
- Track 48 : Ding_76
- Track 49 : MidnightRain_81, SpicyFrank_78
- Track 50 : Anekin_78
- Track 51 : BillyTP_77, Lawnathon_78, Windest_80
- Track 52 : JakeTheSnake_79
- Track 53 : Raqqa_74
- Track 54 : LeBruni_77
- Track 55 : Tiff81_72
- Track 56 : Phrank15_80
- Track 57 : AbbyDaisy_79
- Track 58 : BlueShadow_74
- Track 59 : Shukran_73
- Track 60 : Sashimi_74
- Track 61 : Flutur_45, JohnDoe_46, Simpson_48, Joemato_46
- Track 62 : ThursdayNight_48
- Track 63 : Michkear_47
- Track 64 : Tbone_46
- Track 65 : Powerpuff_48, YesChef_46, Tutumahutu_47, Lego_45, AGrandiflora_48, Cyan_46
- Track 66 : Iter_45
- Track 67 : Mudpuppy_42
- Track 68 : Community_48
- Track 69 : IttyBittyPiggy_46
- Track 70 : Ascela_45
- Track 71 : Janeemi_48
- Track 72 : Nitro_44
- Track 73 : JuneStar_48
- Track 74 : Lizalica_44
- Track 75 : DrSierra_43
- Track 76 : Crewmate_51
- Track 77 : Phives_50
- Track 78 : Pixelle_47
- Track 79 : Kaylissa_47
- Track 80 : Cassia_45
- Track 81 : Yang_46
- Track 82 : Tuck_49
- Track 83 : Amyev_46, Tian_45

- Track 84 : Warda_46
- Track 85 : Schaffner_46
- Track 86 : ObiToo_51
- Track 87 : Wildwest_45
- Track 88 : Pumpkins_45
- Track 89 : MaGuCo_43
- Track 90 : Liebe_46, IUFootball_46, Maureen_46
- Track 91 : Indlovu_79
- Track 92 : BirdsNest_93
- Track 93 : LittleMinkey_96, Hashim76_90
- Track 94 : Zenteno07_93
- Track 95 : Thonko_86
- Track 96 : Myrna_64
- Track 97 : Greely_69
- Track 98 : Phabba_70
- Track 99 : ScoobyDoobyDoo_55
- Track 100 : Jalammah_54
- Track 101 : Wisp_50
- Track 102 : Samba_50, Hitter_51
- Track 103 : CaptainKirk2_51, MintFen_51, BlingBling_48, Barco_49, Melba_50, Delian_54, Zarbodnamra_50, Archis_54, Zilla_49
- Track 104 : JasperJr_48, Guacamole_48
- Track 105 : Begonia_49, Malachai_49
- Track 106 : Fenry_49
- Track 107 : Lysidious_52, Utz_44
- Track 108 : Mellie_49
- Track 109 : ZiggyZoo_51
- Track 110 : Hawkeye_86
- Track 111 : DirtyBoi_56
- Track 112 : PatriciaStar_53
- Track 113 : Hedwig_57
- Track 114 : RayTheFireFly_61
- Track 115 : Dmitri_53
- Track 116 : Chipko_58
- Track 117 : Moonflower_54
- Track 118 : Squiddly_84
- Track 119 : CherryTomatoes_47
- Track 120 : SCentae_45, Pupper_45
- Track 121 : Sour_51
- Track 122 : Coldpizza_48
- Track 123 : Evaa_48
- Track 124 : Sisko_47, AnClar_48, Yago84_47
- Track 125 : LittleMunchkin_50
- Track 126 : JellyBelly_47, CharlottesWeb_47
- Track 127 : Ligma_48, Fresco_48, Axumite_48, Shatter_48
- Track 128 : Mariokart_48
- Track 129 : BiggityBass_47
- Track 130 : Stormageddon_88, RedWattleHog_91
- Track 131 : Wolfstar_76
- Track 132 : Tandem_71, Pioneer3_71, Hortus1_71, OlinDD_71
- Track 133 : Platte_71
- Track 134 : Brushbloom_62, MilleniumForce_63, Ramsey_59, Batiatus_58, Aubs_60

- Track 135 : Zizzle_64, Rita_61, DeadP_66, Dante_61, Martik_60, AlpineSix_65, Koella_54, Zapner_73, CaptainTrips_57, Maravista_61, Totinger_59, Rockne_61, Eish_64, James_64, Chuckly_63, Pippy_58, SG4_57, LastJedi_54, Dorothy_58, Crumble_55, PhilipPhlop_60, Seabastian_65, Taj_64, Jinglebell_65, Ochi17_63, Jabbawokkie_74, GUmbie_58, Lizziana_66, Soul22_66, Priscilla_60, Whouxphf_57, Zerg_60, VRedHorse_60, Nichirin_67, PMC_57, Modragons_64, Blarby_72, Boomer_65, Mattes_64, Firehouse51_61, IbOuu_59, Inventum_55, OwlST2W_60, Slim_61, Starcevich_60, ShowerHandel_63, SiSi_58, Burwell21_58, EmiMonkey_58, Hegedechwinu_60, Pollywog_61, Karhdo_57, Saal_62, BuzzLyseyear_66, Alexphander_64, PatoPoderoso_57, OlympiaSaint_62, DaWorst_61, Yorick_59, Wee_64, KingJulian_60, SwagPigglett_65, Sassafras_58, OfUltron_65, Oksu_64, Llama_65, MinionDave_59, Emmaloid_61, FreddyB_61, Mutaforma13_64, Brocalys_55, BobaPhett_64, Enby_61, ShiLan_59, NormanBulbieJr_60, Clifton_55, Eradicator_53, Cabrinians_61, Gorge_64, Peridot_61, LittleShirley_59, Polka14_58, Corium_57
- Track 136 : Phanphagia_57, Beakin_61, DLane_55, ArcusAngelus_62, TDanisky_67, Bobi_65, Ms6_55, Melissau88_58, PopTart_54, SuperGrey_63, SassyB_54, SilverChicken_70, Ardmore_52, Kenuha5_57, Chevrolet_65, Sparkdehlily_67, Tweety_59
- Track 137 : Llij_56, Phatniss_58, MulchExplorer_63, Lorde_60, UncleRicky_59, Job42_62, Nivrat_56, Avani_68, Drago_58, QuickMath_62, DirtMcgirt_59, Kimberlium_63, Jarcob_60, LilMoolah_58, Estave1_63, DRBy19_63, Kersh_62, Veteran_57, Jennelsea_57, Mwanjiwa_66, Philus_63, Rialto_66
- Track 138 : Plumbus_62, Daenerys_54, ByChance_52, Pacc40_54, KingMidas_59, BodEinwohner17_60, Vivum_61, Empress_58, Leozinho_59, DosHalletts_62, Tootsieroll_61, Leperchaun_52, Doomphist_60, JoeyJr_55, Poenanya_60, PHappiness_55, DaddyRickover_59, Violac_62, Spoonbill_57, RitaG_55
- Track 139 : Harley_62
- Track 140 : Sarma624_56, BigPhil_54, Kingsley_55, Cheesepuff_64, MulchExplorer_60, DoRead_60, Cerasum_54, Harley_61, Starcevich_57, Brookers_55, Kimberlium_60, Che8_63, Coco12_57, Seagreen_58, QuickMath_59, Demsculpinboyz_68, JalFarm20_71, Topiatin_65, Velveteen_53, Jant_62, Che9d_66, Juice456_59, Ovechkin_57, Cornie_53, Royals2015_61
- Track 141 : Sarma624_57, BigPhil_55, Juice456_60, Kingsley_56, Cheesepuff_65, DoRead_61, Cerasum_55, QuickMath_60, Starcevich_58, Brookers_56, Che8_64, Ovechkin_58, JalFarm20_72, Seagreen_59, Jant_63, DotProduct_54, Kimberlium_61, Topiatin_66, Velveteen_54, Juniper1_57, Che9d_67, MulchExplorer_61, Coco12_58, Cornie_54, Royals2015_62
- Track 142 : Medindi_56, Filuzino_58, StAnnes_58, XFactor_58
- Track 143 : RockyHorror_61, Doug_62
- Track 144 : Girafales_69, Okabe_55, Quico_68, Florinda_71, Minnie_63, Bipolar_58, Fruitloop_57, Sandalphon_61
- Track 145 : Moonbeam_58
- Track 146 : Mahavrat_58, Cheesepuff_67, Mozy_69, Doomslug_69, Grimmer_70, LunaBlu_62, GigiOuiOui_56, Girr_58, Ruby_56, IrishSherpFalk_61, NewHope4_61, WillSterrel_61, Latretium_62, Cornie_56, Spartacus_62, MisterCuddles_58, Galactic_59
- Track 147 : Akhila_51, MilanaBonita_50, Whatsapiecost_60, Hamulus_61, Ogopogo_65, Flathead_60
- Track 148 : DotProduct_53
- Track 149 : Radiance_59
- Track 150 : IMpilo_54, Juniper1_56
- Track 151 : IMpilo_55

- Track 152 : Lucia_59
- Track 153 : Marker_62, Spikelee_67, OldBen_57
- Track 154 : Blexus_58, EleanorGeorge_61, Scottish_58, ShroomBoi_62, Mova_61, KristaRAM_63, Gandolph_63, MadMen_58, Madiba_58
- Track 155 : Donkeykong_63, Squirty_62, Shauna1_58
- Track 156 : BlueCrab_60, Byougenkin_58, Fancypants_62
- Track 157 : SimranZ1_60, Phasih_58, Fastidio_60, DillTech15_57, Ibhubesi_60, Sabbb_64, Demsculpinboyz_71
- Track 158 : Bubbles123_56
- Track 159 : Hlubikazi_56, Mandlovu_56, Strokeseat_56
- Track 160 : Tchotchke_60
- Track 161 : Krakatau_57
- Track 162 : Topiatin_68, Cornucopia_62
- Track 163 : Juniper1_59
- Track 164 : Beanstalk_60
- Track 165 : PhesterPhotato_60, Phalconet_58
- Track 166 : Hades_61
- Track 167 : Wachhund_61
- Track 168 : Emma_61
- Track 169 : Yoshi_73, ThetaBob_65
- Track 170 : Demsculpinboyz_69
- Track 171 : LunaStella_56, Yoshi_70, ThetaBob_62, TChen_58
- Track 172 : Renaud18_63
- Track 173 : LunaStella_57, Renaud18_64, Yoshi_71, ThetaBob_63, TChen_59
- Track 174 : LunaStella_59, TChen_61
- Track 175 : Renaud18_66
- Track 176 : Alatato_57
- Track 177 : AllBusiness_48
- Track 178 : Schism_53
- Track 179 : Maruru_65, Sonali_65
- Track 180 : Mufasa8_70
- Track 181 : Sunshine23_66
- Track 182 : Prairie_53
- Track 183 : Nandito_53
- Track 184 : Bumble_49
- Track 185 : Klevey_55
- Track 186 : Bolt007_53
- Track 187 : Altadena_50
- Track 188 : Lilmac1015_57, CalWood4100_57
- Track 189 : Circuit_48
- Track 190 : Vitus_45
- Track 191 : GoldDust_45, Vibaki_44, Gooberta_45
- Track 192 : Hirko_43
- Track 193 : Music_44
- Track 194 : Cassini_73
- Track 195 : BlackSpider_65
- Track 196 : BellaJr_70
- Track 197 : Zucker_73
- Track 198 : Carrillo_59
- Track 199 : Phingu_60
- Track 200 : PhillyJawn_58, Appa_57, Winchester007_4, Dropshot_57
- Track 201 : Blett_57, NCRodriguez_59
- Track 202 : Losacky_59, Antuna_59

- Track 203 : Bush_58, CookieDog_57
- Track 204 : Pickles13_57
- Track 205 : Guzman_57
- Track 206 : Violeta_59, Jakelyne_60
- Track 207 : Phonegingi_58
- Track 208 : Mariel_60
- Track 209 : MenE_59
- Track 210 : Warren_57
- Track 211 : ScoobySnack_54
- Track 212 : Bagrid_145, Dove_130, NihilNomen_146, Minerva_144, Halley_146, Optimus_135, Wanda_144, Odette_148, DmpstrDiver_145, Ejimix_137, Klein_142, Phoebus_144, Kalah2_135, BAKA_144, EricMillard_136, Beem_146, Hughesyang_143, JuicyJay_140, Constella_138, Schatzie_140, Duke13_140, ThreeRngTarjay_139, Dallas_145, Zelink_139, Bombitas_132
- Track 213 : Marleymoo_127, Bobby_134, Hidrated_130
- Track 214 : Pound_136
- Track 215 : Porcelain_140, Yeet_138, MiaZeal_143, HokkenD_137, Redno2_139, Lucky2013_136, KashFlow_143
- Track 216 : Thibault_127
- Track 217 : Footloose_58

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

The start number called the most often in the published annotations is 107, it was called in 244 of the 515 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Akhila_51, Alexphander_64, AlpineSix_65, ArcusAngelus_62, Ardmore_52, Aubs_60, Avani_68, Batiatus_58, Beakin_61, Beanstalk_60, BigPhil_55, Bipolar_58, Blarby_72, Blexus_58, BlueCrab_60, BobaPhett_64, Bobi_65, BodEinwohner17_60, Boomer_65, Brocalys_55, Brookers_56, Brushbloom_62, Bubbles123_56, Burwell21_58, BuzzLyseyear_66, ByChance_52, Byougenkin_58, Cabrinians_61, CaptainTrips_57, Cerasum_55, Che8_64, Che9d_67, CheesePuff_65, CheesePuff_67, Chevrolet_65, Chuckly_63, Clifton_55, Coco12_58, Corium_57, Cornie_54, Cornie_56, Cornucopia_62, Crumble_55, DLane_55, DRBy19_63, DaWorst_61, DaddyRickover_59, Daenerys_54, Dante_61, DeadP_66, Demsculpinboyz_69, Demsculpinboyz_71, DillTech15_57, DirtMcGirt_59, DoRead_61, Donkeykong_63, Doomphist_60, Doomslug_69, Dorothy_58, DosHalletts_62, DotProduct_54, Doug_62, Drago_58, Eish_64, EleanorGeorge_61, EmiMonkey_58, Emma_61, Emmaloid_61, Empress_58, Enby_61, Eradicator_53, Estave1_63, Fancypants_62, Fastidio_60, Filuzino_58, Firehouse51_61, Flathead_60, Florinda_71, Footloose_58, FreddyB_61, Fruitloop_57, GUmble_58, Galactic_59, Gandolph_63, GigiOuiOui_56, Girafales_69, Girr_58, Gorge_64, Grimmer_70, Hades_61, Hamulus_61, Harley_62, Hegedechwinu_60, Hlubikazi_56, IbOuu_59, Ibhubesi_60, Inventum_55, IrishSherpFalk_61, Jabbawokkie_74, JalFarm20_72, James_64, Jant_63, Jacob_60, Jennelsea_57, Jinglebell_65, Job42_62, JoeyJr_55, Juice456_60, Juniper1_57, Juniper1_59, Karhdo_57, Kenuha5_57, Kersh_62, Kimberlium_61, Kimberlium_63, KingJulian_60, KingMidas_59, Kingsley_56, Koella_54, Krakatau_57, KristaRAM_63, LastJedi_54, Latretium_62, Leozinho_59, Leperchaun_52, LilMoolah_58, LittleShirley_59,

Lizziana_66, Llama_65, Llij_56, Lorde_60, Lucia_59, LunaBlu_62, LunaStella_57, LunaStella_59, MadMen_58, Madiba_58, Mahavrat_58, Mandlovu_56, Maravista_61, Marker_62, Martik_60, Mattes_64, Medindi_56, Melissauren88_58, MilanaBonita_50, MilleniumForce_63, MinionDave_59, Minnie_63, MisterCuddles_58, Modragons_64, Moonbeam_58, Mova_61, Mozy_69, Ms6_55, MulchExplorer_61, MulchExplorer_63, Mutaforma13_64, Mwanjiwa_66, NewHope4_61, Nichirin_67, Nivrat_56, NormanBulbieJr_60, Ochi17_63, OfUltron_65, Ogopogo_65, Okabe_55, Oksu_64, OldBen_57, OlympiaSaint_62, Ovechkin_58, OwlsT2W_60, PHappiness_55, PMC_57, Pacc40_54, PatoPoderoso_57, Peridot_61, Phalconet_58, Phanphagia_57, Phasi_58, Phatniss_58, PhesterPhotato_60, Philus_63, PhilipPhlop_60, Pippy_58, Plumbus_62, Poenanya_60, Polka14_58, Pollywog_61, PopTart_54, Priscilla_60, QuickMath_60, QuickMath_62, Quico_68, Radiance_59, Ramsey_59, Renaud18_64, Renaud18_66, Rialto_66, RitaG_55, Rita_61, Rockne_61, RockyHorror_61, Royals2015_62, Ruby_56, SG4_57, Saal_62, Sabb_64, Sandalphon_61, Sarma624_57, Sassafras_58, SassyB_54, Scottish_58, Seabastian_65, Seagreen_59, Shauna1_58, ShiLan_59, ShowerHandel_63, ShroomBoi_62, SiSi_58, SilverChicken_70, SimranZ1_60, Slim_61, Soul22_66, Sparkdehlily_67, Spartacus_62, Spikelee_67, Spoonbill_57, Squirty_62, StAnnes_58, Starceвич_58, Starceвич_60, Strokeseat_56, SuperGrey_63, SwagPigglett_65, TChen_59, TChen_61, TDanisky_67, Taj_64, Tchotchke_60, ThetaBob_63, ThetaBob_65, Tootsieroll_61, Topiatin_66, Topiatin_68, Totinger_59, Tweety_59, UncleRicky_59, VRedHorse_60, Velveteen_54, Veteran_57, Violac_62, Vivum_61, Wachhund_61, Wee_64, Whatsapiecost_60, Whouxphf_57, WillSterrel_61, XFactor_58, Yorick_59, Yoshi_71, Yoshi_73, Zapner_73, Zerg_60, Zizzle_64,

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

- Hawkeye_86, IMpilo_55,

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

- AGrandiflora_48, AbbyDaisy_79, Abidatro_30, AdaS_72, AdoptaAdorbs_30, Aikyam_75, Alatato_57, AlexMinion_33, AllBusiness_48, Altadena_50, Amanises_32, AmCi24_30, Amphitrite_31, Amyev_46, AnClar_48, Andrew_32, Anekin_78, Antrice_35, Antuna_59, Appa_57, Archis_54, Ascela_45, Atlantica_31, Auxilium_74, Axumite_48, Azaz_31, BAKA_144, Babushka_28, Bagrid_145, Barco_49, Basilisk_31, BasketStar_76, Bedetta_35, Beem_146, Begonia_49, BellaJr_70, BenchScraper_76, Bhageatrice_80, Bibble12_33, BigPhil_54, BiggityBass_47, BillyTP_77, BirdsNest_93, BlackSpider_65, Blett_57, BlingBling_48, BlueShadow_74, Bobby_134, Bolt007_53, Bombitas_132, Brookers_55, Brynnie_30, Bumble_49, Bush_58, CalWood4100_57, Camara_31, CaptainKirk2_51, Carrillo_59, Cassia_45, Cassini_73, Causa_142, Cerasum_54, CharlottesWeb_47, Che8_63, Che9d_66, Cheesepuff_64, CherryTomatoes_47, Chickaboom_31, Chicken_29, Chipko_58, Circuit_48, Coco12_57, Coldpizza_48, Colusalem_33, Community_48, Constella_138, CookieBear_75, CookieDog_57, Cornie_53, CosmicBrownie_73, Crescenzo_79, Crewmate_51, Cyan_46, Cygnet_32, Dallas_145, Damocles_36, DanHam62_31, DarwinJr_80, Delian_54, Demsculpinboyz_68, Ding_76, DirtyBoi_56, Dmitri_53, DmpstrDiver_145, DoRead_60, DotProduct_53, Dove_130, DrSierra_43, Dropshot_57, Duke13_140, Eesa_29, Ejimix_137, EricMillard_136, Evaa_48, EvePickles_75, Faja_79, Fenry_49, Fingolfin_31, Flutur_45, Fresco_48, Globfish_76, Glotell_32, GoldDust_45, Gooberta_45, Gorpy_74, GramZayde_33, Gravel_33, Greely_69, Guacamole_48, GumGum_81, Guzman_57, Halley_146, HamCheese_31, Harley_61, Hashim76_90, Hedwig_57, Hestia_70, Hidrated_130, Hillester_80, Hirko_43, Hitter_51, HokkenD_137, Hortus1_71, Hughesyang_143, IMpilo_54, IUFootball_46, Indlovu_79, Isolde_74, Iter_45, IttyBittyPiggy_46,

JakeTheSnake_79, Jakelyne_60, JalFarm20_71, Jalammah_54, Jamun_29, Janeemi_48, Jant_62, JasperJr_48, JellyBelly_47, JellyBread_73, Joemato_46, JohnDoe_46, Juice456_59, JuicyJay_140, JuneStar_48, Juniper1_56, Juno112_30, KHumphrey_31, Kabloowy_76, Kalah2_135, KashFlow_143, Kaylissa_47, KendraB23_34, Kimberlium_60, Kingsley_55, Klein_142, Klevey_55, Laphuphu24k_29, Lasker_76, Lawnathon_78, LeBruni_77, Lego_45, Leona_30, Liebe_46, Ligma_48, Lilmac1015_57, LittleMinkey_96, LittleMunchkin_50, LittleTokyo_33, Lizalica_44, Losacky_59, Lucky2013_136, LunaStella_56, Lysidious_52, MUWow_78, MaGuCo_43, Malachai_49, MalagasyRose_65, Mapleville_71, Mariel_60, Mariokart_48, Marleymoo_127, Maruru_65, MaterMagnus_76, Maureen_46, Melba_50, Mellie_49, MenE_59, MiaZeal_143, Michkear_47, MidnightRain_81, Minerva_144, MintFen_51, Moonflower_54, Mudpuppy_42, Mufasa8_70, MulchExplorer_60, MurphyJoseph_72, Music_44, Myrna_64, NCRodriguez_59, Nandito_53, NewKitty_78, Niblet_29, NihilNomen_146, Nitro_44, ObiToo_51, Odette_148, OlinDD_71, Oppalora_30, Optimus_135, Orcanus_30, OtsoOtso_33, Ovechkin_57, PatriciaStar_53, Pelletreau_33, Persistence_70, Phabba_70, PhillyJawn_58, Phingu_60, PhirstandPhine_35, Phives_50, PhluffyCoco_31, Phoebus_144, Phonegingi_58, Phrank15_80, Phrappuccino_165, Pickles13_57, Pineda_34, Pioneer3_71, Pixelle_47, Platte_71, Polka_32, Porcelain_140, Pound_136, Powerpuff_48, Prairie_53, Pumpkins_45, Pupper_45, QuickMath_59, RadFad_81, Raphaela_77, Raqqa_74, Rattail_31, RayTheFireFly_61, RedFox_31, RedWattleHog_91, Redno2_139, Renaud18_63, Renna12_30, Richie_79, Royals2015_61, Ruchi_30, SCentae_45, Sakai_73, Samba_50, Sarma624_56, Sashimi_74, Schaffner_46, Schatzie_140, Schism_53, ScoobyDoobyDoo_55, ScoobySnack_54, Seagreen_58, Seahorse_84, Settecandela_165, Shatter_48, Shukran_73, Simpson_48, Sisko_47, SonDevVon_83, Sonali_65, Sour_51, SpicyFrank_78, Sporco_78, Squiddly_84, StAugustine_140, Starceovich_57, Stormageddon_88, Sunshine23_66, TChen_58, Tandem_71, TaylorSipht_30, Tbone_46, ThayneTheZag_81, ThetaBob_62, Thibault_127, Thonko_86, ThreeRngTarjay_139, ThursdayNight_48, Tian_45, Tiff81_72, Toad24_32, Topiatin_65, Tuck_49, Tutumahutu_47, Utz_44, Velveteen_53, Vibaki_44, Violeta_59, Vitus_45, Vulpecula_30, Wanda_144, Warda_46, Warren_57, Westrich_33, Wildwest_45, WileyE_31, Winchester007_4, Windest_80, Wisp_50, Wolfstar_76, Yago84_47, Yang_46, Yeet_138, YesChef_46, Yoshi_70, YoungHarleezy_76, Zarbodnamra_50, Zelink_139, Zenteno07_93, Zhuangyuan_35, ZiggyZoo_51, Zilla_49, Zixiang_29, Zucker_73,

Summary by start number:

Start 84:

- Found in 1 of 603 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sour_51 (DR),

Start 85:

- Found in 20 of 603 (3.3%) of genes in pham
- Manual Annotations of this start: 14 of 515
- Called 75.0% of time when present
- Phage (with cluster) where this start called: AnClar_48 (DR), Axumite_48 (DR), BiggityBass_47 (DR), Coldpizza_48 (DR), Evaa_48 (DR), Fresco_48 (DR), Greely_69 (C2), Ligma_48 (DR), LittleMunchkin_50 (DR), Myrna_64 (C2), Phabba_70 (C2), ScoobyDoobyDoo_55 (C2), Shatter_48 (DR), Sisko_47 (DR), Yago84_47 (DR),

Start 91:

- Found in 4 of 603 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_93 (B13), Hashim76_90 (B13), LittleMinkey_96 (B13), Zenteno07_93 (B13),

Start 93:

- Found in 36 of 603 (6.0%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 2.8% of time when present
- Phage (with cluster) where this start called: Schism_53 (FF),

Start 94:

- Found in 3 of 603 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antrice_35 (AS2), Cygnet_32 (AS2), Zhuangyuan_35 (AS2),

Start 95:

- Found in 1 of 603 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thonko_86 (B8),

Start 99:

- Found in 3 of 603 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena_50 (FH), Bumble_49 (FH), Circuit_48 (FH),

Start 100:

- Found in 1 of 603 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mellie_49 (CV),

Start 101:

- Found in 33 of 603 (5.5%) of genes in pham
- Manual Annotations of this start: 24 of 515
- Called 84.8% of time when present
- Phage (with cluster) where this start called: Archis_54 (CV), Barco_49 (CV), Begonia_49 (CV), BlingBling_48 (CV), CaptainKirk2_51 (CV), Chipko_58 (DB), Delian_54 (CV), DirtyBoi_56 (DB), Dmitri_53 (DB), Fenry_49 (CV), Guacamole_48 (CV), Hedwig_57 (DB), Hitter_51 (CV), Jalammah_54 (CV), JasperJr_48 (CV), Lysidious_52 (CV), Malachai_49 (CV), Melba_50 (CV), MintFen_51 (CV), Moonflower_54 (DB), PatriciaStar_53 (DB), RayTheFireFly_61 (DB), Samba_50 (CV), Utz_44 (CV), Wisp_50 (CV), Zarbodnamra_50 (CV), ZiggyZoo_51 (CV), Zilla_49 (CV),

Start 102:

- Found in 5 of 603 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 515
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Maruru_65 (FG), Sonali_65 (FG), Sunshine23_66 (FG),

Start 105:

- Found in 52 of 603 (8.6%) of genes in pham
- Manual Annotations of this start: 36 of 515
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Abidatro_30 (AS1), AdoptaAdorbs_30 (AS3), AlexMinion_33 (AS3), Amanises_32 (AS1), AmCi24_30 (AS3), Amphitrite_31 (AS3), Andrew_32 (AS3), Atlantica_31 (AS3), Azaz_31 (AS3), Babushka_28 (AS3), Basilisk_31 (AS1), Bedetta_35 (AS2), Bibble12_33 (AS2), Brynnie_30 (AS1), Camara_31 (AS3), Chicken_29 (AS1), Colusalem_33 (AS2), Damocles_36 (AS2), DanHam62_31 (AS3), Eesa_29 (AS1), Fingolfin_31 (AS3), Glotell_32 (AS3), GramZayde_33 (AS2), Gravel_33 (AS1), HamCheese_31 (AS3), Jamun_29 (AS1), Juno112_30 (AS3), KendraB23_34 (AS1), Laphuphu24k_29 (AS3), Leona_30 (AS3), LittleTokyo_33 (AS2), Niblet_29 (AS1), Oppalora_30 (AS3), Orcanus_30 (AS1), OtsoOtso_33 (AS2), Pelletreau_33 (AS1), PhirstandPhine_35 (AS2), PhluffyCoco_31 (AS3), Pineda_34 (AS2), Polka_32 (AS2), Rattail_31 (AS3), RedFox_31 (AS3), Renna12_30 (AS3), Ruchi_30 (AS1), TaylorSipht_30 (AS1), Toad24_32 (AS1), Vulpecula_30 (AS1), Westrich_33 (AS1), WileyE_31 (AS1), Zixiang_29 (AS1),

Start 106:

- Found in 4 of 603 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Squiddly_84 (DN2),

Start 107:

- Found in 267 of 603 (44.3%) of genes in pham
- Manual Annotations of this start: 244 of 515
- Called 99.3% of time when present
- Phage (with cluster) where this start called: Akhila_51 (F1), Alexphander_64 (F1), AlpineSix_65 (F1), ArcusAngelus_62 (F1), Ardmore_52 (F1), Aubs_60 (F1), Avani_68 (F2), Batiatus_58 (F1), Beakin_61 (F1), Beanstalk_60 (F1), BigPhil_55 (F1), Bipolar_58 (F1), Blarby_72 (F), Blexus_58 (F1), BlueCrab_60 (F1), BobaPhett_64 (F1), Bobi_65 (F1), BodEinwohner17_60 (F1), Boomer_65 (F1), Brocalys_55 (F1), Brookers_56 (F1), Brushbloom_62 (F1), Bubbles123_56 (F1), Burwell21_58 (F1), BuzzLyseyear_66 (F1), ByChance_52 (F1), Byougenkin_58 (F1), Cabrinians_61 (F1), CaptainTrips_57 (F1), Cerasum_55 (F1), Che8_64 (F1), Che9d_67 (F2), Cheesepuff_65 (F1), Cheesepuff_67 (F1), Chevrolet_65 (F1), Chuckly_63 (F1), Clifton_55 (F1), Coco12_58 (F1), Corium_57 (F1), Cornie_54 (F5), Cornie_56 (F5), Cornucopia_62 (F1), Crumble_55 (F1), DLane_55 (F1), DRBy19_63 (F1), DaWorst_61 (F1), DaddyRickover_59 (F1), Daenerys_54 (F1), Dante_61 (F1), DeadP_66 (F1), Demsculpinboyz_69 (F2), Demsculpinboyz_71 (F2), DillTech15_57 (F1), DirtMcgirt_59 (F1), DoRead_61 (F1), Donkeykong_63 (F1), Doomphist_60 (F1), Doomslug_69 (F), Dorothy_58 (F1), DosHalletts_62 (F1), DotProduct_54 (F1), Doug_62 (F1), Drago_58 (F1), Eish_64 (F1), EleanorGeorge_61 (F1), EmiMonkey_58 (F1), Emma_61 (F1), Emmaloid_61 (F1), Empress_58 (F1), Enby_61 (F1), Eradicator_53 (F1), Estave1_63 (F1), Fancypants_62 (F1), Fastidio_60 (F1),

Filuzino_58 (F1), Firehouse51_61 (F1), Flathead_60 (F1), Florinda_71 (F1), Footloose_58 (singleton), FreddyB_61 (F1), Fruitloop_57 (F1), GUmble_58 (F1), Galactic_59 (F1), Gandolph_63 (F1), GigiOuiOui_56 (F1), Girafales_69 (F1), Girr_58 (F1), Gorge_64 (F1), Grimmer_70 (F1), Hades_61 (F1), Hamulus_61 (F1), Harley_62 (F1), Hegedechwinu_60 (F1), Hlubikazi_56 (F1), IbOuu_59 (F1), Ibhubesi_60 (F1), Inventum_55 (F1), IrishSherpFalk_61 (F1), Jabbawokkie_74 (F2), JalFarm20_72 (F1), James_64 (F1), Jant_63 (F1), Jacob_60 (F1), Jennelsea_57 (F1), Jinglebell_65 (F1), Job42_62 (F1), JoeyJr_55 (F1), Juice456_60 (F1), Juniper1_57 (F1), Juniper1_59 (F1), Karhdo_57 (F1), Kenuha5_57 (F1), Kersh_62 (F1), Kimberlium_61 (F1), Kimberlium_63 (F1), KingJulian_60 (F1), KingMidas_59 (F1), Kingsley_56 (F1), Koella_54 (F1), Krakatau_57 (F1), KristaRAM_63 (F1), LastJedi_54 (F1), Latretium_62 (F1), Leozinho_59 (F1), Leperchaun_52 (F1), LilMoolah_58 (F1), LittleShirley_59 (F1), Lizziana_66 (F1), Llama_65 (F1), Llij_56 (F1), Lorde_60 (F1), Lucia_59 (F1), LunaBlu_62 (F1), LunaStella_57 (F4), LunaStella_59 (F4), MadMen_58 (F1), Madiba_58 (F1), Mahavrat_58 (F1), Mandlovu_56 (F1), Maravista_61 (F1), Marker_62 (F1), Martik_60 (F1), Mattes_64 (F1), Medindi_56 (F1), Melissauren88_58 (F1), MilanaBonita_50 (F1), MilleniumForce_63 (F1), MinionDave_59 (F1), Minnie_63 (F1), MisterCuddles_58 (F1), Modragons_64 (F1), Moonbeam_58 (F1), Mova_61 (F1), Mozy_69 (F1), Ms6_55 (F1), MulchExplorer_61 (F1), MulchExplorer_63 (F1), Mutaforma13_64 (F1), Mwanjiwa_66 (F1), NewHope4_61 (F1), Nichirin_67 (F1), Nivrat_56 (F1), NormanBulbieJr_60 (F1), Ochi17_63 (F1), OfUltron_65 (F1), Ogopogo_65 (F1), Okabe_55 (F8), Oksu_64 (F1), OldBen_57 (F1), OlympiaSaint_62 (F1), Ovechkin_58 (F1), OwlsT2W_60 (F1), PHappiness_55 (F1), PMC_57 (F1), Pacc40_54 (F1), PatoPoderoso_57 (F1), Peridot_61 (F1), Phalconet_58 (F1), Phanphagia_57 (F1), Phasih_58 (F1), Phatniss_58 (F1), PhesterPhotato_60 (F1), Philus_63 (F1), PhilipPhlop_60 (F1), Pippy_58 (F1), Plumbus_62 (F1), Poenanya_60 (F1), Polka14_58 (F1), Pollywog_61 (F1), PopTart_54 (F1), Priscilla_60 (F1), QuickMath_60 (F1), QuickMath_62 (F1), Quico_68 (F1), Radiance_59 (F1), Ramsey_59 (F1), Renaud18_64 (F4), Renaud18_66 (F4), Rialto_66 (F1), RitaG_55 (F1), Rita_61 (F1), Rockne_61 (F1), RockyHorror_61 (F1), Royals2015_62 (F1), Ruby_56 (F1), SG4_57 (F1), Saal_62 (F1), Sabbb_64 (F1), Sandalphon_61 (F1), Sarma624_57 (F1), Sassafras_58 (F1), SassyB_54 (F1), Scottish_58 (F1), Seabastian_65 (F1), Seagreen_59 (F1), Shauna1_58 (F1), ShiLan_59 (F1), ShowerHandel_63 (F1), ShroomBoi_62 (F1), SiSi_58 (F1), SilverChicken_70 (F2), SimranZ1_60 (F1), Slim_61 (F1), Soul22_66 (F2), Sparkdehlily_67 (F1), Spartacus_62 (F1), Spikelee_67 (F1), Spoonbill_57 (F1), Squirty_62 (F3), StAnnes_58 (F1), Starcevic_58 (F1), Starcevic_60 (F1), Strokeseat_56 (F1), SuperGrey_63 (F1), SwagPiggett_65 (F1), TChen_59 (F4), TChen_61 (F4), TDanisky_67 (F1), Taj_64 (F1), Tchotchke_60 (F1), ThetaBob_63 (F4), ThetaBob_65 (F4), Tootsieroll_61 (F1), Topiatin_66 (F1), Topiatin_68 (F1), Totinger_59 (F1), Tweety_59 (F1), UncleRicky_59 (F1), VRedHorse_60 (F1), Velveteen_54 (F1), Veteran_57 (F1), Violac_62 (F1), Vivum_61 (F1), Wachhund_61 (F1), Wee_64 (F1), Whatsapiecost_60 (F1), Whouxphf_57 (F1), WillSterrel_61 (F1), XFactor_58 (F1), Yorick_59 (F1), Yoshi_71 (F2), Yoshi_73 (F2), Zapner_73 (F2), Zerg_60 (F1), Zizzle_64 (F1),

Start 108:

- Found in 33 of 603 (5.5%) of genes in pham
- Manual Annotations of this start: 30 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigPhil_54 (F1), Brookers_55 (F1), Cerasum_54 (F1), Che8_63 (F1), Che9d_66 (F2), Cheesepuff_64 (F1), Coco12_57 (F1), Cornie_53 (F5), Demsculpinboyz_68 (F2), DoRead_60 (F1), DotProduct_53

(F1), Harley_61 (F1), IMpilo_54 (F1), JalFarm20_71 (F1), Jant_62 (F1), Juice456_59 (F1), Juniper1_56 (F1), Kimberlium_60 (F1), Kingsley_55 (F1), LunaStella_56 (F4), MulchExplorer_60 (F1), Ovechkin_57 (F1), QuickMath_59 (F1), Renaud18_63 (F4), Royals2015_61 (F1), Sarma624_56 (F1), Seagreen_58 (F1), Starceovich_57 (F1), TChen_58 (F4), ThetaBob_62 (F4), Topiatin_65 (F1), Velveteen_53 (F1), Yoshi_70 (F2),

Start 109:

- Found in 1 of 603 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_86 (D2),

Start 110:

- Found in 39 of 603 (6.5%) of genes in pham
- Manual Annotations of this start: 35 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_144 (J), Bagrid_145 (J), Beem_146 (J), Bobby_134 (J), Bombitas_132 (J), Constella_138 (J), Dallas_145 (J), DmpstrDiver_145 (J), Dove_130 (J), Duke13_140 (J), Ejimix_137 (J), EricMillard_136 (J), Halley_146 (J), Hidrated_130 (J), HokkenD_137 (J), Hughesyang_143 (J), JuicyJay_140 (J), Kalah2_135 (J), KashFlow_143 (J), Klein_142 (J), Lucky2013_136 (J), Marleymoo_127 (J), MiaZeal_143 (J), Minerva_144 (J), NihilNomen_146 (J), Odette_148 (J), Optimus_135 (J), Phoebus_144 (J), Porcelain_140 (J), Pound_136 (J), RedWattleHog_91 (DX), Redno2_139 (J), Schatzie_140 (J), Stormageddon_88 (DX), Thibault_127 (J), ThreeRngTarjay_139 (J), Wanda_144 (J), Yeet_138 (J), Zelink_139 (J),

Start 111:

- Found in 1 of 603 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phives_50 (AZ1),

Start 112:

- Found in 4 of 603 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 75.0% of time when present
- Phage (with cluster) where this start called: CharlottesWeb_47 (DR), JellyBelly_47 (DR), Mariokart_48 (DR),

Start 113:

- Found in 49 of 603 (8.1%) of genes in pham
- Manual Annotations of this start: 40 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AGrandiflora_48 (AZ1), Amyev_46 (AZ1), Ascela_45 (AZ1), Cassia_45 (AZ1), Causa_142 (A1), Community_48 (AZ1), Crewmate_51 (AZ1), Cyan_46 (AZ1), DrSierra_43 (AZ1), Flutur_45 (AZ), GoldDust_45 (FL), Gooberta_45 (FL), Hirko_43 (FL), IUFootball_46 (AZ2), Indlovu_79 (B11), Iter_45 (AZ1), IttyBittyPiggy_46 (AZ1), Janeemi_48 (AZ1), Joemato_46 (AZ1), JohnDoe_46 (AZ1), JuneStar_48 (AZ1), Kaylissa_47 (AZ1), Lego_45 (AZ1), Liebe_46 (AZ2), Lizalica_44 (AZ1), MaGuCo_43 (AZ2), Maureen_46 (AZ2), Michkear_47 (AZ), Mudpuppy_42 (AZ1), Music_44 (FL), Nitro_44 (AZ1),

ObiToo_51 (AZ1), Pixelle_47 (AZ1), Powerpuff_48 (AZ1), Pumpkins_45 (AZ1), Schaffner_46 (AZ1), Simpson_48 (AZ1), StAugustine_140 (AI), Tbone_46 (AZ1), ThursdayNight_48 (AZ), Tian_45 (AZ1), Tuck_49 (AZ1), Tutumahutu_47 (AZ1), Vibaki_44 (FL), Vitus_45 (FL), Warda_46 (AZ1), Wildwest_45 (AZ1), Yang_46 (AZ1), YesChef_46 (AZ1),

Start 114:

- Found in 69 of 603 (11.4%) of genes in pham
- Manual Annotations of this start: 50 of 515
- Called 95.7% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_79 (AY), AdaS_72 (AY), Aikyam_75 (AY), Alatato_57 (FB), Anekin_78 (AY), Auxilium_74 (AY), BasketStar_76 (AY), BellaJr_70 (FN), BenchScraper_76 (AY), Bhageatrice_80 (AY), BillyTP_77 (AY), BlackSpider_65 (FN), BlueShadow_74 (AY), Bolt007_53 (FH), CalWood4100_57 (FH), Cassini_73 (FN), CherryTomatoes_47 (DO), CookieBear_75 (AY), CosmicBrownie_73 (AY), Crescenzo_79 (AY), DarwinJr_80 (AY), Ding_76 (AY), EvePickles_75 (AY), Faja_79 (AY), Globfish_76 (AY), Gorpy_74 (AY), GumGum_81 (AY), Hestia_70 (AY), Hillester_80 (AY), Isolde_74 (AY), JakeTheSnake_79 (AY), JellyBread_73 (AY), Kabloowy_76 (AY), Klevey_55 (FH), Lasker_76 (AY), Lawnathon_78 (AY), LeBruni_77 (AY), Lilmac1015_57 (FH), MUWow_78 (AY), Mapleville_71 (AY), MaterMagnus_76 (AY), MidnightRain_81 (AY), Mufasa8_70 (FG), MurphyJoseph_72 (AY), Nandito_53 (FH), NewKitty_78 (AY), Persistence_70 (AY), Phrank15_80 (AY), Prairie_53 (FH), Pupper_45 (DO), RadFad_81 (AY), Raphaella_77 (AY), Richie_79 (AY), SCentae_45 (DO), Sakai_73 (AY), Sashimi_74 (AY), Seahorse_84 (AY), Shukran_73 (AY), SonDevVon_83 (AY), SpicyFrank_78 (AY), Sporco_78 (AY), ThayneTheZag_81 (AY), Tiff81_72 (AY), Windest_80 (AY), YoungHarleezy_76 (AY), Zucker_73 (FN),

Start 117:

- Found in 2 of 603 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AllBusiness_48 (FF),

Start 118:

- Found in 24 of 603 (4.0%) of genes in pham
- Manual Annotations of this start: 9 of 515
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Hortus1_71 (ED1), KHumphrey_31 (AS3), OlinDD_71 (ED1), Phrappuccino_165 (AA), Pioneer3_71 (ED1), Platte_71 (ED1), Settecandela_165 (AA), Tandem_71 (ED1), Wolfstar_76 (ED),

Start 120:

- Found in 1 of 603 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_65 (AG),

Start 122:

- Found in 24 of 603 (4.0%) of genes in pham
- Manual Annotations of this start: 11 of 515
- Called 87.5% of time when present

- Phage (with cluster) where this start called: Antuna_59 (GA), Appa_57 (GA), Blett_57 (GA), Bush_58 (GA), Carrillo_59 (GA), CookieDog_57 (GA), Dropshot_57 (GA), Guzman_57 (GA), Jakelyne_60 (GA), Losacky_59 (GA), Mariel_60 (GA), MenE_59 (GA), NCRodriguez_59 (GA), PhillyJawn_58 (GA), Phingu_60 (GA), Phonegingi_58 (GA), Pickles13_57 (GA), ScoobySnack_54 (GA), Violeta_59 (GA), Warren_57 (GA), Winchester007_4 (GA),

Start 127:

- Found in 39 of 603 (6.5%) of genes in pham
- Manual Annotations of this start: 1 of 515
- Called 5.1% of time when present
- Phage (with cluster) where this start called: Chickaboom_31 (AS1), Raqqa_74 (AY),

Start 128:

- Found in 293 of 603 (48.6%) of genes in pham
- No Manual Annotations of this start.
- Called 0.3% of time when present
- Phage (with cluster) where this start called: IMpilo_55 (F1),

Summary by clusters:

There are 39 clusters represented in this pham: DO, singleton, FF, FG, DB, FB, ED1, B13, DX, B11, FH, FL, FN, DR, DN2, C2, AS3, AS2, AS1, AA, AG, F, AI, ED, J, GA, AY, AZ, CV, F1, F2, F3, F4, F5, F8, B8, AZ1, AZ2, D2,

Info for manual annotations of cluster AA:

- Start number 118 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AG:

- Start number 120 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AI:

- Start number 113 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster AS1:

- Start number 105 was manually annotated 15 times for cluster AS1.
- Start number 127 was manually annotated 1 time for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 94 was manually annotated 3 times for cluster AS2.
- Start number 105 was manually annotated 5 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 105 was manually annotated 16 times for cluster AS3.
- Start number 118 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster AY:

- Start number 114 was manually annotated 39 times for cluster AY.

Info for manual annotations of cluster AZ1:

- Start number 111 was manually annotated 1 time for cluster AZ1.
- Start number 113 was manually annotated 29 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 113 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster B11:

- Start number 113 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B13:

- Start number 91 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B8:

- Start number 95 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster C2:

- Start number 85 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CV:

- Start number 100 was manually annotated 1 time for cluster CV.
- Start number 101 was manually annotated 20 times for cluster CV.

Info for manual annotations of cluster D2:

- Start number 109 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DB:

- Start number 101 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DN2:

- Start number 106 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DO:

- Start number 114 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DR:

- Start number 84 was manually annotated 1 time for cluster DR.
- Start number 85 was manually annotated 11 times for cluster DR.
- Start number 112 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster DX:

- Start number 110 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster ED:

- Start number 118 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 118 was manually annotated 5 times for cluster ED1.

Info for manual annotations of cluster F1:

- Start number 107 was manually annotated 223 times for cluster F1.
- Start number 108 was manually annotated 22 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 107 was manually annotated 9 times for cluster F2.

- Start number 108 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F3:

- Start number 107 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 107 was manually annotated 8 times for cluster F4.
- Start number 108 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 107 was manually annotated 2 times for cluster F5.
- Start number 108 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FB:

- Start number 114 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FF:

- Start number 93 was manually annotated 1 time for cluster FF.
- Start number 117 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FG:

- Start number 102 was manually annotated 2 times for cluster FG.
- Start number 114 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FH:

- Start number 99 was manually annotated 3 times for cluster FH.
- Start number 114 was manually annotated 4 times for cluster FH.

Info for manual annotations of cluster FL:

- Start number 113 was manually annotated 5 times for cluster FL.

Info for manual annotations of cluster FN:

- Start number 114 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster GA:

- Start number 122 was manually annotated 11 times for cluster GA.

Info for manual annotations of cluster J:

- Start number 110 was manually annotated 33 times for cluster J.

Gene Information:

Gene: AGrandiflora_48 Start: 33790, Stop: 34203, Start Num: 113

Candidate Starts for AGrandiflora_48:

(Start: 113 @33790 has 40 MA's), (143, 33844), (182, 33970), (192, 34024), (242, 34177), (244, 34195),

Gene: AbbyDaisy_79 Start: 44094, Stop: 44489, Start Num: 114

Candidate Starts for AbbyDaisy_79:

(Start: 114 @44094 has 50 MA's), (Start: 127 @44118 has 1 MA's), (139, 44139), (173, 44265), (230, 44463),

Gene: Abidatro_30 Start: 21728, Stop: 21387, Start Num: 105

Candidate Starts for Abidatro_30:

(Start: 105 @21728 has 36 MA's), (Start: 127 @21707 has 1 MA's), (186, 21497), (214, 21401),

Gene: AdaS_72 Start: 39804, Stop: 40205, Start Num: 114

Candidate Starts for AdaS_72:

(Start: 114 @39804 has 50 MA's), (173, 39972), (187, 40041),

Gene: AdoptaAdorbs_30 Start: 21209, Stop: 20868, Start Num: 105

Candidate Starts for AdoptaAdorbs_30:

(Start: 105 @21209 has 36 MA's), (Start: 118 @21191 has 9 MA's),

Gene: Aikyam_75 Start: 40510, Stop: 40911, Start Num: 114

Candidate Starts for Aikyam_75:

(40, 40264), (Start: 114 @40510 has 50 MA's), (173, 40678), (187, 40747),

Gene: Akhila_51 Start: 36387, Stop: 36752, Start Num: 107

Candidate Starts for Akhila_51:

(Start: 107 @36387 has 244 MA's), (128, 36420), (132, 36426), (140, 36438), (150, 36480), (157, 36510), (163, 36534), (165, 36537), (189, 36636), (190, 36642), (218, 36717), (220, 36720), (222, 36723),

Gene: Alatato_57 Start: 32552, Stop: 32914, Start Num: 114

Candidate Starts for Alatato_57:

(Start: 114 @32552 has 50 MA's), (164, 32687), (173, 32708),

Gene: AlexMinion_33 Start: 21398, Stop: 21057, Start Num: 105

Candidate Starts for AlexMinion_33:

(Start: 105 @21398 has 36 MA's),

Gene: Alexphander_64 Start: 40703, Stop: 41068, Start Num: 107

Candidate Starts for Alexphander_64:

(Start: 107 @40703 has 244 MA's), (128, 40736), (138, 40751), (140, 40754), (149, 40793), (150, 40796), (154, 40817), (163, 40850), (173, 40877), (182, 40910), (189, 40952), (190, 40958), (228, 41054),

Gene: AllBusiness_48 Start: 35021, Stop: 35380, Start Num: 117

Candidate Starts for AllBusiness_48:

(Start: 93 @34973 has 1 MA's), (Start: 106 @35006 has 1 MA's), (Start: 114 @35018 has 50 MA's), (Start: 117 @35021 has 1 MA's), (130, 35054), (141, 35072), (152, 35120), (192, 35279),

Gene: AlpineSix_65 Start: 42816, Stop: 43181, Start Num: 107

Candidate Starts for AlpineSix_65:

(Start: 107 @42816 has 244 MA's), (128, 42849), (138, 42864), (140, 42867), (149, 42906), (150, 42909), (154, 42930), (163, 42963), (173, 42990), (182, 43023), (189, 43065), (190, 43071), (228, 43167),

Gene: Altadena_50 Start: 34978, Stop: 35370, Start Num: 99

Candidate Starts for Altadena_50:

(Start: 99 @34978 has 3 MA's), (150, 35077), (184, 35206), (200, 35281),

Gene: Amanises_32 Start: 22613, Stop: 22260, Start Num: 105

Candidate Starts for Amanises_32:

(Start: 105 @22613 has 36 MA's), (152, 22514), (214, 22277),

Gene: AmiCi24_30 Start: 21208, Stop: 20867, Start Num: 105

Candidate Starts for AmiCi24_30:

(Start: 105 @21208 has 36 MA's), (Start: 118 @21190 has 9 MA's),

Gene: Amphitrite_31 Start: 21207, Stop: 20866, Start Num: 105

Candidate Starts for Amphitrite_31:

(Start: 105 @21207 has 36 MA's), (Start: 118 @21189 has 9 MA's),

Gene: Amyev_46 Start: 34828, Stop: 35223, Start Num: 113

Candidate Starts for Amyev_46:

(10, 34264), (15, 34336), (17, 34345), (24, 34423), (54, 34654), (68, 34726), (Start: 113 @34828 has 40 MA's), (143, 34882), (182, 35008),

Gene: AnClar_48 Start: 43435, Stop: 43061, Start Num: 85

Candidate Starts for AnClar_48:

(Start: 85 @43435 has 14 MA's), (135, 43375), (153, 43312), (154, 43303), (187, 43183),

Gene: Andrew_32 Start: 21174, Stop: 20812, Start Num: 105

Candidate Starts for Andrew_32:

(Start: 105 @21174 has 36 MA's), (152, 21087), (185, 20958), (199, 20892),

Gene: Anekin_78 Start: 43082, Stop: 43483, Start Num: 114

Candidate Starts for Anekin_78:

(40, 42836), (Start: 114 @43082 has 50 MA's), (173, 43250), (187, 43319),

Gene: Antrice_35 Start: 22982, Stop: 22596, Start Num: 94

Candidate Starts for Antrice_35:

(Start: 94 @22982 has 3 MA's), (160, 22820), (176, 22775), (179, 22766), (212, 22634),

Gene: Antuna_59 Start: 34183, Stop: 34620, Start Num: 122

Candidate Starts for Antuna_59:

(16, 33676), (21, 33706), (Start: 122 @34183 has 11 MA's), (154, 34279), (160, 34306), (180, 34354), (191, 34411), (192, 34417), (197, 34438), (223, 34504), (233, 34534), (240, 34570),

Gene: Appa_57 Start: 33948, Stop: 34385, Start Num: 122

Candidate Starts for Appa_57:

(Start: 122 @33948 has 11 MA's), (154, 34044), (160, 34071), (180, 34119), (191, 34176), (192, 34182), (197, 34203), (223, 34269), (233, 34299), (238, 34323), (240, 34335),

Gene: Archis_54 Start: 35570, Stop: 35932, Start Num: 101

Candidate Starts for Archis_54:

(58, 35426), (64, 35462), (76, 35501), (Start: 101 @35570 has 24 MA's), (155, 35699), (160, 35723),

Gene: ArcusAngelus_62 Start: 40946, Stop: 41311, Start Num: 107

Candidate Starts for ArcusAngelus_62:

(Start: 107 @40946 has 244 MA's), (128, 40979), (132, 40985), (140, 40997), (150, 41039), (157, 41069), (163, 41093), (165, 41096), (189, 41195), (190, 41201), (218, 41276),

Gene: Ardmore_52 Start: 38473, Stop: 38838, Start Num: 107

Candidate Starts for Ardmore_52:

(Start: 107 @38473 has 244 MA's), (128, 38506), (132, 38512), (140, 38524), (150, 38566), (157, 38596), (163, 38620), (165, 38623), (189, 38722), (190, 38728), (218, 38803),

Gene: Ascela_45 Start: 33111, Stop: 33515, Start Num: 113

Candidate Starts for Ascela_45:

(Start: 113 @33111 has 40 MA's), (152, 33198), (182, 33291), (192, 33345), (239, 33489),

Gene: Atlantica_31 Start: 21209, Stop: 20868, Start Num: 105

Candidate Starts for Atlantica_31:

(Start: 105 @21209 has 36 MA's), (Start: 118 @21191 has 9 MA's),

Gene: Aubs_60 Start: 40637, Stop: 41002, Start Num: 107

Candidate Starts for Aubs_60:

(Start: 107 @40637 has 244 MA's), (128, 40670), (132, 40676), (140, 40688), (157, 40760), (163, 40784), (165, 40787), (173, 40811), (189, 40886), (190, 40892), (218, 40967),

Gene: Auxilium_74 Start: 40053, Stop: 40418, Start Num: 114

Candidate Starts for Auxilium_74:

(Start: 114 @40053 has 50 MA's), (147, 40116), (154, 40149), (173, 40209), (186, 40272),

Gene: Avani_68 Start: 41015, Stop: 41380, Start Num: 107

Candidate Starts for Avani_68:

(Start: 107 @41015 has 244 MA's), (128, 41048), (138, 41063), (140, 41066), (149, 41105), (150, 41108), (154, 41129), (163, 41162), (172, 41183), (173, 41189), (182, 41222), (189, 41264), (190, 41270), (228, 41366),

Gene: Axumite_48 Start: 41091, Stop: 40741, Start Num: 85

Candidate Starts for Axumite_48:

(Start: 85 @41091 has 14 MA's), (135, 41046), (140, 41037), (145, 41022), (154, 40974), (182, 40893),

Gene: Azaz_31 Start: 21281, Stop: 20940, Start Num: 105

Candidate Starts for Azaz_31:

(Start: 105 @21281 has 36 MA's), (156, 21173), (161, 21152),

Gene: BAKA_144 Start: 76097, Stop: 76450, Start Num: 110

Candidate Starts for BAKA_144:

(Start: 110 @76097 has 35 MA's), (183, 76298), (189, 76340),

Gene: Babushka_28 Start: 21123, Stop: 20782, Start Num: 105

Candidate Starts for Babushka_28:

(Start: 105 @21123 has 36 MA's), (125, 21102),

Gene: Bagrid_145 Start: 76792, Stop: 77145, Start Num: 110

Candidate Starts for Bagrid_145:

(Start: 110 @76792 has 35 MA's), (183, 76993), (189, 77035),

Gene: Barco_49 Start: 34620, Stop: 34982, Start Num: 101

Candidate Starts for Barco_49:

(58, 34476), (64, 34512), (76, 34551), (Start: 101 @34620 has 24 MA's), (155, 34749), (160, 34773),

Gene: Basilisk_31 Start: 22679, Stop: 22335, Start Num: 105

Candidate Starts for Basilisk_31:

(Start: 105 @22679 has 36 MA's), (Start: 127 @22658 has 1 MA's), (130, 22652), (141, 22634), (152, 22586),

Gene: BasketStar_76 Start: 42848, Stop: 43237, Start Num: 114

Candidate Starts for BasketStar_76:

(1, 41279), (2, 41414), (3, 41525), (4, 41561), (5, 41624), (11, 42302), (31, 42518), (Start: 114 @42848 has 50 MA's), (160, 42971), (173, 43004), (176, 43019), (187, 43073), (214, 43163),

Gene: Batiatus_58 Start: 40347, Stop: 40712, Start Num: 107

Candidate Starts for Batiatus_58:

(Start: 107 @40347 has 244 MA's), (128, 40380), (132, 40386), (140, 40398), (157, 40470), (163, 40494), (165, 40497), (173, 40521), (189, 40596), (190, 40602), (218, 40677),

Gene: Beakin_61 Start: 39476, Stop: 39841, Start Num: 107

Candidate Starts for Beakin_61:

(Start: 107 @39476 has 244 MA's), (128, 39509), (132, 39515), (140, 39527), (150, 39569), (157, 39599), (163, 39623), (165, 39626), (189, 39725), (190, 39731), (218, 39806),

Gene: Beanstalk_60 Start: 39020, Stop: 39385, Start Num: 107

Candidate Starts for Beanstalk_60:

(Start: 107 @39020 has 244 MA's), (128, 39053), (138, 39068), (140, 39071), (150, 39113), (154, 39134), (163, 39167), (172, 39188), (173, 39194), (182, 39227), (190, 39275), (228, 39371),

Gene: Bedetta_35 Start: 22003, Stop: 21653, Start Num: 105

Candidate Starts for Bedetta_35:

(13, 22510), (29, 22327), (50, 22186), (68, 22093), (Start: 105 @22003 has 36 MA's), (214, 21670),

Gene: Beem_146 Start: 77695, Stop: 78048, Start Num: 110

Candidate Starts for Beem_146:

(Start: 110 @77695 has 35 MA's), (183, 77896), (189, 77938),

Gene: Begonia_49 Start: 37159, Stop: 37521, Start Num: 101

Candidate Starts for Begonia_49:

(76, 37090), (Start: 101 @37159 has 24 MA's), (148, 37258), (154, 37285), (155, 37288), (160, 37312), (225, 37507),

Gene: BellaJr_70 Start: 41160, Stop: 41555, Start Num: 114

Candidate Starts for BellaJr_70:

(46, 40953), (Start: 114 @41160 has 50 MA's), (Start: 127 @41184 has 1 MA's), (139, 41205), (160, 41298), (173, 41331), (230, 41529),

Gene: BenchScraper_76 Start: 41215, Stop: 41616, Start Num: 114

Candidate Starts for BenchScraper_76:

(Start: 114 @41215 has 50 MA's), (173, 41383), (187, 41452),

Gene: Bhageatrice_80 Start: 44894, Stop: 45259, Start Num: 114

Candidate Starts for Bhageatrice_80:

(Start: 114 @44894 has 50 MA's), (147, 44957), (154, 44990), (173, 45050), (186, 45113),

Gene: Bibble12_33 Start: 21861, Stop: 21511, Start Num: 105

Candidate Starts for Bibble12_33:

(29, 22185), (50, 22044), (68, 21951), (Start: 105 @21861 has 36 MA's), (214, 21528),

Gene: BigPhil_54 Start: 35652, Stop: 35999, Start Num: 108

Candidate Starts for BigPhil_54:

(96, 35625), (103, 35643), (Start: 108 @35652 has 30 MA's), (128, 35682), (135, 35691), (142, 35709), (154, 35763), (163, 35790), (182, 35847), (186, 35877), (189, 35889),

Gene: BigPhil_55 Start: 35996, Stop: 36349, Start Num: 107

Candidate Starts for BigPhil_55:

(Start: 93 @35960 has 1 MA's), (Start: 107 @35996 has 244 MA's), (Start: 127 @36026 has 1 MA's), (128, 36029), (136, 36041), (140, 36047), (154, 36110), (157, 36119), (158, 36125), (189, 36239), (194, 36260), (216, 36317), (226, 36329),

Gene: BiggityBass_47 Start: 42936, Stop: 42535, Start Num: 85

Candidate Starts for BiggityBass_47:

(Start: 85 @42936 has 14 MA's), (135, 42849), (153, 42786), (155, 42774), (189, 42651),

Gene: BillyTP_77 Start: 43046, Stop: 43435, Start Num: 114

Candidate Starts for BillyTP_77:

(Start: 114 @43046 has 50 MA's), (160, 43169), (173, 43202), (176, 43217), (187, 43271),

Gene: Bipolar_58 Start: 40097, Stop: 40462, Start Num: 107

Candidate Starts for Bipolar_58:

(Start: 107 @40097 has 244 MA's), (128, 40130), (135, 40139), (140, 40148), (150, 40190), (157, 40220), (163, 40244), (165, 40247), (189, 40346), (190, 40352), (218, 40427),

Gene: BirdsNest_93 Start: 66573, Stop: 66154, Start Num: 91

Candidate Starts for BirdsNest_93:

(Start: 91 @66573 has 3 MA's), (131, 66492), (173, 66363), (182, 66330), (197, 66255),

Gene: BlackSpider_65 Start: 39612, Stop: 40001, Start Num: 114

Candidate Starts for BlackSpider_65:

(68, 39510), (Start: 114 @39612 has 50 MA's), (160, 39735), (173, 39768), (176, 39783), (183, 39804), (187, 39837),

Gene: Blarby_72 Start: 42116, Stop: 42481, Start Num: 107

Candidate Starts for Blarby_72:

(Start: 107 @42116 has 244 MA's), (128, 42149), (138, 42164), (140, 42167), (149, 42206), (150, 42209), (154, 42230), (163, 42263), (173, 42290), (182, 42323), (189, 42365), (190, 42371), (228, 42467),

Gene: Blett_57 Start: 34133, Stop: 34570, Start Num: 122

Candidate Starts for Blett_57:

(Start: 122 @34133 has 11 MA's), (154, 34229), (160, 34256), (180, 34304), (191, 34361), (192, 34367), (197, 34388), (223, 34454), (233, 34484), (238, 34508), (240, 34520),

Gene: Blexus_58 Start: 40670, Stop: 41035, Start Num: 107

Candidate Starts for Blexus_58:

(Start: 107 @40670 has 244 MA's), (128, 40703), (138, 40718), (140, 40721), (150, 40763), (154, 40784), (163, 40817), (173, 40844), (182, 40877), (189, 40919), (190, 40925), (228, 41021),

Gene: BlingBling_48 Start: 35583, Stop: 35945, Start Num: 101

Candidate Starts for BlingBling_48:

(58, 35439), (64, 35475), (76, 35514), (Start: 101 @35583 has 24 MA's), (155, 35712), (160, 35736),

Gene: BlueCrab_60 Start: 40975, Stop: 41340, Start Num: 107

Candidate Starts for BlueCrab_60:

(Start: 107 @40975 has 244 MA's), (128, 41008), (138, 41023), (140, 41026), (150, 41068), (154, 41089), (172, 41143), (173, 41149), (182, 41182), (189, 41224), (190, 41230), (228, 41326),

Gene: BlueShadow_74 Start: 42358, Stop: 42759, Start Num: 114

Candidate Starts for BlueShadow_74:

(Start: 114 @42358 has 50 MA's), (173, 42526), (187, 42595),

Gene: BobaPhett_64 Start: 42932, Stop: 43297, Start Num: 107

Candidate Starts for BobaPhett_64:

(Start: 107 @42932 has 244 MA's), (128, 42965), (138, 42980), (140, 42983), (149, 43022), (150, 43025), (154, 43046), (163, 43079), (173, 43106), (182, 43139), (189, 43181), (190, 43187), (228, 43283),

Gene: Bobby_134 Start: 77532, Stop: 77885, Start Num: 110

Candidate Starts for Bobby_134:

(Start: 110 @77532 has 35 MA's), (183, 77733), (189, 77775),

Gene: Bobi_65 Start: 41950, Stop: 42315, Start Num: 107

Candidate Starts for Bobi_65:

(Start: 107 @41950 has 244 MA's), (128, 41983), (132, 41989), (140, 42001), (150, 42043), (157, 42073), (163, 42097), (165, 42100), (189, 42199), (190, 42205), (218, 42280),

Gene: BodEinwohner17_60 Start: 39737, Stop: 40102, Start Num: 107

Candidate Starts for BodEinwohner17_60:

(Start: 107 @39737 has 244 MA's), (128, 39770), (138, 39785), (140, 39788), (150, 39830), (154, 39851), (163, 39884), (172, 39905), (173, 39911), (182, 39944), (189, 39986), (190, 39992), (228, 40088),

Gene: Bolt007_53 Start: 38007, Stop: 38369, Start Num: 114

Candidate Starts for Bolt007_53:

(72, 37902), (73, 37905), (Start: 114 @38007 has 50 MA's), (200, 38295),

Gene: Bombitas_132 Start: 75106, Stop: 75459, Start Num: 110

Candidate Starts for Bombitas_132:

(Start: 110 @75106 has 35 MA's), (183, 75307), (189, 75349),

Gene: Boomer_65 Start: 42607, Stop: 42972, Start Num: 107

Candidate Starts for Boomer_65:

(Start: 107 @42607 has 244 MA's), (128, 42640), (138, 42655), (140, 42658), (149, 42697), (150, 42700), (154, 42721), (163, 42754), (173, 42781), (182, 42814), (189, 42856), (190, 42862), (228, 42958),

Gene: Brocalys_55 Start: 37114, Stop: 37479, Start Num: 107

Candidate Starts for Brocalys_55:

(Start: 107 @37114 has 244 MA's), (128, 37147), (138, 37162), (140, 37165), (149, 37204), (150, 37207), (154, 37228), (163, 37261), (173, 37288), (182, 37321), (189, 37363), (190, 37369), (228, 37465),

Gene: Brookers_55 Start: 38603, Stop: 38950, Start Num: 108

Candidate Starts for Brookers_55:

(96, 38576), (103, 38594), (Start: 108 @38603 has 30 MA's), (128, 38633), (135, 38642), (142, 38660), (154, 38714), (163, 38741), (182, 38798), (186, 38828), (189, 38840),

Gene: Brookers_56 Start: 38947, Stop: 39300, Start Num: 107

Candidate Starts for Brookers_56:

(Start: 93 @38911 has 1 MA's), (Start: 107 @38947 has 244 MA's), (Start: 127 @38977 has 1 MA's), (128, 38980), (136, 38992), (140, 38998), (154, 39061), (157, 39070), (158, 39076), (189, 39190), (194, 39211), (216, 39268), (226, 39280),

Gene: Brushbloom_62 Start: 41279, Stop: 41644, Start Num: 107

Candidate Starts for Brushbloom_62:

(Start: 107 @41279 has 244 MA's), (128, 41312), (132, 41318), (140, 41330), (157, 41402), (163, 41426), (165, 41429), (173, 41453), (189, 41528), (190, 41534), (218, 41609),

Gene: Brynnie_30 Start: 22557, Stop: 22213, Start Num: 105

Candidate Starts for Brynnie_30:

(Start: 105 @22557 has 36 MA's), (Start: 127 @22536 has 1 MA's), (173, 22389), (214, 22230),

Gene: Bubbles123_56 Start: 40256, Stop: 40621, Start Num: 107

Candidate Starts for Bubbles123_56:

(Start: 107 @40256 has 244 MA's), (128, 40289), (135, 40298), (140, 40307), (154, 40370), (163, 40403), (165, 40406), (169, 40418), (173, 40430), (189, 40505), (190, 40511), (218, 40586),

Gene: Bumble_49 Start: 35709, Stop: 36101, Start Num: 99

Candidate Starts for Bumble_49:

(Start: 99 @35709 has 3 MA's), (183, 35925), (200, 36012),

Gene: Burwell21_58 Start: 40215, Stop: 40580, Start Num: 107

Candidate Starts for Burwell21_58:

(Start: 107 @40215 has 244 MA's), (128, 40248), (138, 40263), (140, 40266), (149, 40305), (150, 40308), (154, 40329), (163, 40362), (173, 40389), (182, 40422), (189, 40464), (190, 40470), (228, 40566),

Gene: Bush_58 Start: 34082, Stop: 34519, Start Num: 122

Candidate Starts for Bush_58:

(Start: 122 @34082 has 11 MA's), (154, 34178), (160, 34205), (180, 34253), (191, 34310), (192, 34316), (197, 34337), (223, 34403), (233, 34433), (240, 34469),

Gene: BuzzLyseyear_66 Start: 41636, Stop: 42001, Start Num: 107

Candidate Starts for BuzzLyseyear_66:

(Start: 107 @41636 has 244 MA's), (128, 41669), (138, 41684), (140, 41687), (149, 41726), (150, 41729), (154, 41750), (163, 41783), (173, 41810), (182, 41843), (189, 41885), (190, 41891), (228, 41987),

Gene: ByChance_52 Start: 35903, Stop: 36268, Start Num: 107

Candidate Starts for ByChance_52:

(Start: 107 @35903 has 244 MA's), (128, 35936), (138, 35951), (140, 35954), (150, 35996), (154, 36017), (163, 36050), (172, 36071), (173, 36077), (182, 36110), (189, 36152), (190, 36158), (228, 36254),

Gene: Byougenkin_58 Start: 39979, Stop: 40344, Start Num: 107

Candidate Starts for Byougenkin_58:

(Start: 107 @39979 has 244 MA's), (128, 40012), (138, 40027), (140, 40030), (150, 40072), (154, 40093), (172, 40147), (173, 40153), (182, 40186), (189, 40228), (190, 40234), (228, 40330),

Gene: Cabrinians_61 Start: 40293, Stop: 40658, Start Num: 107

Candidate Starts for Cabrinians_61:

(Start: 107 @40293 has 244 MA's), (128, 40326), (138, 40341), (140, 40344), (149, 40383), (150, 40386), (154, 40407), (163, 40440), (173, 40467), (182, 40500), (189, 40542), (190, 40548), (228, 40644),

Gene: CalWood4100_57 Start: 38014, Stop: 38406, Start Num: 114

Candidate Starts for CalWood4100_57:

(Start: 114 @38014 has 50 MA's), (200, 38299), (214, 38335),

Gene: Camara_31 Start: 21210, Stop: 20869, Start Num: 105

Candidate Starts for Camara_31:

(Start: 105 @21210 has 36 MA's), (Start: 118 @21192 has 9 MA's),

Gene: CaptainKirk2_51 Start: 34868, Stop: 35230, Start Num: 101

Candidate Starts for CaptainKirk2_51:

(58, 34724), (64, 34760), (76, 34799), (Start: 101 @34868 has 24 MA's), (155, 34997), (160, 35021),

Gene: CaptainTrips_57 Start: 39789, Stop: 40154, Start Num: 107

Candidate Starts for CaptainTrips_57:

(Start: 107 @39789 has 244 MA's), (128, 39822), (138, 39837), (140, 39840), (149, 39879), (150, 39882), (154, 39903), (163, 39936), (173, 39963), (182, 39996), (189, 40038), (190, 40044), (228, 40140),

Gene: Carrillo_59 Start: 34056, Stop: 34493, Start Num: 122

Candidate Starts for Carrillo_59:

(6, 33321), (7, 33420), (16, 33549), (21, 33579), (Start: 122 @34056 has 11 MA's), (154, 34152), (160, 34179), (180, 34227), (191, 34284), (192, 34290), (197, 34311), (223, 34377), (233, 34407), (240, 34443),

Gene: Cassia_45 Start: 33045, Stop: 33434, Start Num: 113

Candidate Starts for Cassia_45:

(43, 32820), (Start: 113 @33045 has 40 MA's), (143, 33099), (182, 33225), (192, 33279), (237, 33408), (241, 33426),

Gene: Cassini_73 Start: 42039, Stop: 42428, Start Num: 114

Candidate Starts for Cassini_73:

(Start: 114 @42039 has 50 MA's), (160, 42162), (176, 42210), (187, 42264),

Gene: Causa_142 Start: 83302, Stop: 82940, Start Num: 113

Candidate Starts for Causa_142:

(Start: 102 @83317 has 2 MA's), (Start: 113 @83302 has 40 MA's), (119, 83293), (126, 83278), (147, 83221), (149, 83212),

Gene: Cerasum_55 Start: 36014, Stop: 36367, Start Num: 107

Candidate Starts for Cerasum_55:

(Start: 93 @35978 has 1 MA's), (Start: 107 @36014 has 244 MA's), (Start: 127 @36044 has 1 MA's), (128, 36047), (136, 36059), (140, 36065), (154, 36128), (157, 36137), (158, 36143), (189, 36257), (194, 36278), (216, 36335), (226, 36347),

Gene: Cerasum_54 Start: 35670, Stop: 36017, Start Num: 108

Candidate Starts for Cerasum_54:

(96, 35643), (103, 35661), (Start: 108 @35670 has 30 MA's), (128, 35700), (135, 35709), (142, 35727), (154, 35781), (163, 35808), (182, 35865), (186, 35895), (189, 35907),

Gene: CharlottesWeb_47 Start: 40439, Stop: 40119, Start Num: 112

Candidate Starts for CharlottesWeb_47:

(Start: 85 @40457 has 14 MA's), (Start: 112 @40439 has 1 MA's), (154, 40352), (190, 40223),

Gene: Che8_64 Start: 42503, Stop: 42856, Start Num: 107

Candidate Starts for Che8_64:

(Start: 93 @42467 has 1 MA's), (Start: 107 @42503 has 244 MA's), (Start: 127 @42533 has 1 MA's), (128, 42536), (136, 42548), (140, 42554), (154, 42617), (157, 42626), (158, 42632), (189, 42746), (194, 42767), (216, 42824), (226, 42836),

Gene: Che8_63 Start: 42159, Stop: 42506, Start Num: 108

Candidate Starts for Che8_63:

(96, 42132), (103, 42150), (Start: 108 @42159 has 30 MA's), (128, 42189), (135, 42198), (142, 42216), (154, 42270), (163, 42297), (182, 42354), (186, 42384), (189, 42396),

Gene: Che9d_67 Start: 39585, Stop: 39938, Start Num: 107

Candidate Starts for Che9d_67:

(Start: 93 @39549 has 1 MA's), (Start: 107 @39585 has 244 MA's), (Start: 127 @39615 has 1 MA's), (128, 39618), (136, 39630), (140, 39636), (154, 39699), (157, 39708), (158, 39714), (189, 39828), (194, 39849), (216, 39906), (226, 39918),

Gene: Che9d_66 Start: 39241, Stop: 39588, Start Num: 108

Candidate Starts for Che9d_66:

(96, 39214), (103, 39232), (Start: 108 @39241 has 30 MA's), (128, 39271), (135, 39280), (142, 39298), (154, 39352), (163, 39379), (182, 39436), (186, 39466), (189, 39478),

Gene: Cheesepuff_65 Start: 41627, Stop: 41980, Start Num: 107

Candidate Starts for Cheesepuff_65:

(Start: 93 @41591 has 1 MA's), (Start: 107 @41627 has 244 MA's), (Start: 127 @41657 has 1 MA's), (128, 41660), (136, 41672), (140, 41678), (154, 41741), (157, 41750), (158, 41756), (189, 41870), (194, 41891), (216, 41948), (226, 41960),

Gene: Cheesepuff_64 Start: 41283, Stop: 41630, Start Num: 108

Candidate Starts for Cheesepuff_64:

(96, 41256), (103, 41274), (Start: 108 @41283 has 30 MA's), (128, 41313), (135, 41322), (142, 41340), (154, 41394), (163, 41421), (182, 41478), (186, 41508), (189, 41520),

Gene: Cheesepuff_67 Start: 42252, Stop: 42617, Start Num: 107

Candidate Starts for Cheesepuff_67:

(Start: 107 @42252 has 244 MA's), (128, 42285), (138, 42300), (140, 42303), (149, 42342), (150, 42345), (154, 42366), (173, 42426), (182, 42459), (189, 42501), (190, 42507), (228, 42603),

Gene: CherryTomatoes_47 Start: 15930, Stop: 16262, Start Num: 114

Candidate Starts for CherryTomatoes_47:

(41, 15675), (98, 15903), (Start: 114 @15930 has 50 MA's), (145, 15984), (146, 15993), (154, 16032), (182, 16116), (194, 16179), (202, 16206),

Gene: Chevrolet_65 Start: 40947, Stop: 41312, Start Num: 107

Candidate Starts for Chevrolet_65:

(Start: 107 @40947 has 244 MA's), (128, 40980), (132, 40986), (140, 40998), (150, 41040), (157, 41070), (163, 41094), (165, 41097), (189, 41196), (190, 41202), (218, 41277),

Gene: Chickaboom_31 Start: 21673, Stop: 21350, Start Num: 127

Candidate Starts for Chickaboom_31:

(Start: 105 @21694 has 36 MA's), (Start: 127 @21673 has 1 MA's), (152, 21601), (194, 21430), (214, 21367),

Gene: Chicken_29 Start: 22015, Stop: 21665, Start Num: 105

Candidate Starts for Chicken_29:

(Start: 105 @22015 has 36 MA's), (152, 21916), (194, 21742), (212, 21682),

Gene: Chipko_58 Start: 39692, Stop: 40057, Start Num: 101

Candidate Starts for Chipko_58:

(14, 39188), (19, 39230), (36, 39395), (Start: 101 @39692 has 24 MA's), (154, 39818), (194, 39965),

Gene: Chuckly_63 Start: 40935, Stop: 41300, Start Num: 107

Candidate Starts for Chuckly_63:

(Start: 107 @40935 has 244 MA's), (128, 40968), (138, 40983), (140, 40986), (149, 41025), (150, 41028), (154, 41049), (163, 41082), (173, 41109), (182, 41142), (189, 41184), (190, 41190), (228, 41286),

Gene: Circuit_48 Start: 36342, Stop: 36734, Start Num: 99

Candidate Starts for Circuit_48:

(Start: 99 @36342 has 3 MA's), (173, 36522), (184, 36570), (200, 36645),

Gene: Clifton_55 Start: 37465, Stop: 37830, Start Num: 107

Candidate Starts for Clifton_55:

(Start: 107 @37465 has 244 MA's), (128, 37498), (138, 37513), (140, 37516), (149, 37555), (150, 37558), (154, 37579), (163, 37612), (173, 37639), (182, 37672), (189, 37714), (190, 37720), (228, 37816),

Gene: Coco12_57 Start: 39727, Stop: 40074, Start Num: 108

Candidate Starts for Coco12_57:

(96, 39700), (103, 39718), (Start: 108 @39727 has 30 MA's), (128, 39757), (135, 39766), (142, 39784), (154, 39838), (163, 39865), (182, 39922), (186, 39952), (189, 39964),

Gene: Coco12_58 Start: 40071, Stop: 40424, Start Num: 107

Candidate Starts for Coco12_58:

(Start: 93 @40035 has 1 MA's), (Start: 107 @40071 has 244 MA's), (Start: 127 @40101 has 1 MA's), (128, 40104), (136, 40116), (140, 40122), (154, 40185), (157, 40194), (158, 40200), (189, 40314), (194, 40335), (216, 40392), (226, 40404),

Gene: Coldpizza_48 Start: 43898, Stop: 43461, Start Num: 85

Candidate Starts for Coldpizza_48:

(Start: 85 @43898 has 14 MA's), (140, 43787), (145, 43772), (149, 43748), (155, 43721), (178, 43655), (189, 43598), (202, 43550), (209, 43529), (213, 43520),

Gene: Colusalem_33 Start: 21842, Stop: 21492, Start Num: 105

Candidate Starts for Colusalem_33:

(29, 22166), (50, 22025), (68, 21932), (Start: 105 @21842 has 36 MA's), (214, 21509),

Gene: Community_48 Start: 35107, Stop: 35478, Start Num: 113
Candidate Starts for Community_48:
(Start: 113 @35107 has 40 MA's), (154, 35209), (182, 35287), (192, 35341),

Gene: Constella_138 Start: 76348, Stop: 76701, Start Num: 110
Candidate Starts for Constella_138:
(Start: 110 @76348 has 35 MA's), (183, 76549), (189, 76591),

Gene: CookieBear_75 Start: 41689, Stop: 42090, Start Num: 114
Candidate Starts for CookieBear_75:
(Start: 114 @41689 has 50 MA's), (173, 41857), (187, 41926),

Gene: CookieDog_57 Start: 34056, Stop: 34493, Start Num: 122
Candidate Starts for CookieDog_57:
(Start: 122 @34056 has 11 MA's), (154, 34152), (160, 34179), (180, 34227), (191, 34284), (192, 34290), (197, 34311), (223, 34377), (233, 34407), (240, 34443),

Gene: Corium_57 Start: 39332, Stop: 39697, Start Num: 107
Candidate Starts for Corium_57:
(Start: 107 @39332 has 244 MA's), (128, 39365), (138, 39380), (140, 39383), (149, 39422), (150, 39425), (154, 39446), (163, 39479), (173, 39506), (182, 39539), (189, 39581), (190, 39587), (228, 39683),

Gene: Cornie_53 Start: 37745, Stop: 38092, Start Num: 108
Candidate Starts for Cornie_53:
(96, 37718), (103, 37736), (Start: 108 @37745 has 30 MA's), (128, 37775), (135, 37784), (142, 37802), (154, 37856), (163, 37883), (182, 37940), (186, 37970), (189, 37982),

Gene: Cornie_56 Start: 38714, Stop: 39079, Start Num: 107
Candidate Starts for Cornie_56:
(Start: 107 @38714 has 244 MA's), (128, 38747), (138, 38762), (140, 38765), (149, 38804), (150, 38807), (154, 38828), (173, 38888), (182, 38921), (189, 38963), (190, 38969), (228, 39065),

Gene: Cornie_54 Start: 38089, Stop: 38442, Start Num: 107
Candidate Starts for Cornie_54:
(Start: 93 @38053 has 1 MA's), (Start: 107 @38089 has 244 MA's), (Start: 127 @38119 has 1 MA's), (128, 38122), (136, 38134), (140, 38140), (154, 38203), (157, 38212), (158, 38218), (189, 38332), (194, 38353), (216, 38410), (226, 38422),

Gene: Cornucopia_62 Start: 40943, Stop: 41308, Start Num: 107
Candidate Starts for Cornucopia_62:
(Start: 107 @40943 has 244 MA's), (128, 40976), (138, 40991), (140, 40994), (149, 41033), (150, 41036), (154, 41057), (172, 41111), (173, 41117), (182, 41150), (189, 41192), (190, 41198), (228, 41294),

Gene: CosmicBrownie_73 Start: 41072, Stop: 41473, Start Num: 114
Candidate Starts for CosmicBrownie_73:
(46, 40865), (Start: 114 @41072 has 50 MA's), (141, 41117), (182, 41273), (194, 41336),

Gene: Crescenzo_79 Start: 44484, Stop: 44873, Start Num: 114
Candidate Starts for Crescenzo_79:
(1, 42915), (2, 43050), (3, 43161), (4, 43197), (5, 43260), (11, 43938), (31, 44154), (Start: 114 @44484 has 50 MA's), (160, 44607), (173, 44640), (176, 44655), (187, 44709), (214, 44799),

Gene: Crewmate_51 Start: 33740, Stop: 34135, Start Num: 113

Candidate Starts for Crewmate_51:

(Start: 113 @33740 has 40 MA's), (143, 33794), (182, 33920),

Gene: Crumble_55 Start: 36229, Stop: 36594, Start Num: 107

Candidate Starts for Crumble_55:

(Start: 107 @36229 has 244 MA's), (128, 36262), (138, 36277), (140, 36280), (149, 36319), (150, 36322), (154, 36343), (163, 36376), (173, 36403), (182, 36436), (189, 36478), (190, 36484), (228, 36580),

Gene: Cyan_46 Start: 33389, Stop: 33802, Start Num: 113

Candidate Starts for Cyan_46:

(Start: 113 @33389 has 40 MA's), (143, 33443), (182, 33569), (192, 33623), (242, 33776), (244, 33794),

Gene: Cygnet_32 Start: 22555, Stop: 22169, Start Num: 94

Candidate Starts for Cygnet_32:

(Start: 94 @22555 has 3 MA's), (212, 22207),

Gene: DLane_55 Start: 38997, Stop: 39362, Start Num: 107

Candidate Starts for DLane_55:

(Start: 107 @38997 has 244 MA's), (128, 39030), (132, 39036), (140, 39048), (150, 39090), (157, 39120), (163, 39144), (165, 39147), (189, 39246), (190, 39252), (218, 39327),

Gene: DRBy19_63 Start: 41390, Stop: 41755, Start Num: 107

Candidate Starts for DRBy19_63:

(Start: 107 @41390 has 244 MA's), (128, 41423), (138, 41438), (140, 41441), (149, 41480), (150, 41483), (154, 41504), (163, 41537), (172, 41558), (173, 41564), (182, 41597), (189, 41639), (190, 41645), (228, 41741),

Gene: DaWorst_61 Start: 40694, Stop: 41059, Start Num: 107

Candidate Starts for DaWorst_61:

(Start: 107 @40694 has 244 MA's), (128, 40727), (138, 40742), (140, 40745), (149, 40784), (150, 40787), (154, 40808), (163, 40841), (173, 40868), (182, 40901), (189, 40943), (190, 40949), (228, 41045),

Gene: DaddyRickover_59 Start: 40432, Stop: 40797, Start Num: 107

Candidate Starts for DaddyRickover_59:

(Start: 107 @40432 has 244 MA's), (128, 40465), (138, 40480), (140, 40483), (150, 40525), (154, 40546), (163, 40579), (172, 40600), (173, 40606), (182, 40639), (189, 40681), (190, 40687), (228, 40783),

Gene: Daenerys_54 Start: 38542, Stop: 38907, Start Num: 107

Candidate Starts for Daenerys_54:

(Start: 107 @38542 has 244 MA's), (128, 38575), (138, 38590), (140, 38593), (150, 38635), (154, 38656), (163, 38689), (172, 38710), (173, 38716), (182, 38749), (189, 38791), (190, 38797), (228, 38893),

Gene: Dallas_145 Start: 77162, Stop: 77515, Start Num: 110

Candidate Starts for Dallas_145:

(Start: 110 @77162 has 35 MA's), (183, 77363), (189, 77405),

Gene: Damocles_36 Start: 22001, Stop: 21651, Start Num: 105

Candidate Starts for Damocles_36:

(29, 22325), (50, 22184), (68, 22091), (Start: 105 @22001 has 36 MA's), (214, 21668),

Gene: DanHam62_31 Start: 21209, Stop: 20868, Start Num: 105

Candidate Starts for DanHam62_31:

(Start: 105 @21209 has 36 MA's), (Start: 118 @21191 has 9 MA's),

Gene: Dante_61 Start: 40217, Stop: 40582, Start Num: 107

Candidate Starts for Dante_61:

(Start: 107 @40217 has 244 MA's), (128, 40250), (138, 40265), (140, 40268), (149, 40307), (150, 40310), (154, 40331), (163, 40364), (173, 40391), (182, 40424), (189, 40466), (190, 40472), (228, 40568),

Gene: DarwinJr_80 Start: 44439, Stop: 44828, Start Num: 114

Candidate Starts for DarwinJr_80:

(1, 42870), (2, 43005), (3, 43116), (4, 43152), (5, 43215), (11, 43893), (31, 44109), (Start: 114 @44439 has 50 MA's), (160, 44562), (173, 44595), (176, 44610), (187, 44664), (214, 44754),

Gene: DeadP_66 Start: 42861, Stop: 43226, Start Num: 107

Candidate Starts for DeadP_66:

(Start: 107 @42861 has 244 MA's), (128, 42894), (138, 42909), (140, 42912), (149, 42951), (150, 42954), (154, 42975), (163, 43008), (173, 43035), (182, 43068), (189, 43110), (190, 43116), (228, 43212),

Gene: Delian_54 Start: 34866, Stop: 35228, Start Num: 101

Candidate Starts for Delian_54:

(58, 34722), (64, 34758), (76, 34797), (Start: 101 @34866 has 24 MA's), (155, 34995), (160, 35019),

Gene: Demsculpinboyz_69 Start: 39586, Stop: 39939, Start Num: 107

Candidate Starts for Demsculpinboyz_69:

(Start: 93 @39550 has 1 MA's), (Start: 107 @39586 has 244 MA's), (Start: 127 @39616 has 1 MA's), (128, 39619), (136, 39631), (140, 39637), (154, 39700), (157, 39709), (158, 39715), (189, 39829), (194, 39850), (226, 39919),

Gene: Demsculpinboyz_68 Start: 39242, Stop: 39589, Start Num: 108

Candidate Starts for Demsculpinboyz_68:

(96, 39215), (103, 39233), (Start: 108 @39242 has 30 MA's), (128, 39272), (135, 39281), (142, 39299), (154, 39353), (163, 39380), (182, 39437), (186, 39467), (189, 39479),

Gene: Demsculpinboyz_71 Start: 40214, Stop: 40579, Start Num: 107

Candidate Starts for Demsculpinboyz_71:

(Start: 107 @40214 has 244 MA's), (128, 40247), (138, 40262), (140, 40265), (149, 40304), (150, 40307), (154, 40328), (173, 40388), (182, 40421), (189, 40463), (190, 40469), (214, 40538), (228, 40565),

Gene: DillTech15_57 Start: 38876, Stop: 39241, Start Num: 107

Candidate Starts for DillTech15_57:

(Start: 107 @38876 has 244 MA's), (128, 38909), (138, 38924), (140, 38927), (149, 38966), (150, 38969), (154, 38990), (173, 39050), (182, 39083), (189, 39125), (190, 39131), (214, 39200), (228, 39227),

Gene: Ding_76 Start: 42235, Stop: 42624, Start Num: 114

Candidate Starts for Ding_76:

(31, 41905), (34, 41920), (Start: 114 @42235 has 50 MA's), (141, 42268), (160, 42358), (173, 42391), (182, 42424), (183, 42427), (186, 42454), (187, 42460), (224, 42571),

Gene: DirtMcgirt_59 Start: 38957, Stop: 39322, Start Num: 107

Candidate Starts for DirtMcgirt_59:

(Start: 107 @38957 has 244 MA's), (128, 38990), (138, 39005), (140, 39008), (149, 39047), (150, 39050), (154, 39071), (163, 39104), (172, 39125), (173, 39131), (182, 39164), (189, 39206), (190, 39212), (228, 39308),

Gene: DirtyBoi_56 Start: 37313, Stop: 37675, Start Num: 101

Candidate Starts for DirtyBoi_56:

(Start: 101 @37313 has 24 MA's), (154, 37436),

Gene: Dmitri_53 Start: 39335, Stop: 39700, Start Num: 101

Candidate Starts for Dmitri_53:

(Start: 101 @39335 has 24 MA's), (154, 39461),

Gene: DmpstrDiver_145 Start: 77081, Stop: 77434, Start Num: 110

Candidate Starts for DmpstrDiver_145:

(Start: 110 @77081 has 35 MA's), (183, 77282), (189, 77324),

Gene: DoRead_60 Start: 38654, Stop: 39001, Start Num: 108

Candidate Starts for DoRead_60:

(96, 38627), (103, 38645), (Start: 108 @38654 has 30 MA's), (128, 38684), (135, 38693), (142, 38711), (154, 38765), (163, 38792), (182, 38849), (186, 38879), (189, 38891),

Gene: DoRead_61 Start: 38998, Stop: 39351, Start Num: 107

Candidate Starts for DoRead_61:

(Start: 93 @38962 has 1 MA's), (Start: 107 @38998 has 244 MA's), (Start: 127 @39028 has 1 MA's), (128, 39031), (136, 39043), (140, 39049), (154, 39112), (157, 39121), (158, 39127), (189, 39241), (194, 39262), (216, 39319), (226, 39331),

Gene: Donkeykong_63 Start: 42892, Stop: 43257, Start Num: 107

Candidate Starts for Donkeykong_63:

(Start: 107 @42892 has 244 MA's), (128, 42925), (135, 42934), (140, 42943), (163, 43039), (165, 43042), (173, 43066), (189, 43141), (190, 43147), (218, 43222),

Gene: Doomphist_60 Start: 41387, Stop: 41752, Start Num: 107

Candidate Starts for Doomphist_60:

(Start: 107 @41387 has 244 MA's), (128, 41420), (138, 41435), (140, 41438), (150, 41480), (154, 41501), (163, 41534), (172, 41555), (173, 41561), (182, 41594), (189, 41636), (190, 41642), (228, 41738),

Gene: Doomslug_69 Start: 40807, Stop: 41172, Start Num: 107

Candidate Starts for Doomslug_69:

(Start: 107 @40807 has 244 MA's), (128, 40840), (138, 40855), (140, 40858), (149, 40897), (150, 40900), (154, 40921), (173, 40981), (182, 41014), (189, 41056), (190, 41062), (228, 41158),

Gene: Dorothy_58 Start: 39606, Stop: 39971, Start Num: 107

Candidate Starts for Dorothy_58:

(Start: 107 @39606 has 244 MA's), (128, 39639), (138, 39654), (140, 39657), (149, 39696), (150, 39699), (154, 39720), (163, 39753), (173, 39780), (182, 39813), (189, 39855), (190, 39861), (228,

39957),

Gene: DosHalletts_62 Start: 41742, Stop: 42107, Start Num: 107

Candidate Starts for DosHalletts_62:

(Start: 107 @41742 has 244 MA's), (128, 41775), (138, 41790), (140, 41793), (150, 41835), (154, 41856), (163, 41889), (172, 41910), (173, 41916), (182, 41949), (189, 41991), (190, 41997), (228, 42093),

Gene: DotProduct_53 Start: 38248, Stop: 38595, Start Num: 108

Candidate Starts for DotProduct_53:

(96, 38221), (103, 38239), (Start: 108 @38248 has 30 MA's), (121, 38260), (Start: 122 @38263 has 11 MA's), (128, 38278), (135, 38287), (142, 38305), (154, 38359), (163, 38386), (182, 38443), (186, 38473), (189, 38485), (229, 38587),

Gene: DotProduct_54 Start: 38592, Stop: 38945, Start Num: 107

Candidate Starts for DotProduct_54:

(Start: 93 @38556 has 1 MA's), (Start: 107 @38592 has 244 MA's), (Start: 127 @38622 has 1 MA's), (128, 38625), (136, 38637), (140, 38643), (154, 38706), (157, 38715), (158, 38721), (189, 38835), (194, 38856), (216, 38913), (226, 38925),

Gene: Doug_62 Start: 40960, Stop: 41325, Start Num: 107

Candidate Starts for Doug_62:

(Start: 107 @40960 has 244 MA's), (128, 40993), (140, 41011), (149, 41050), (150, 41053), (154, 41074), (163, 41107), (173, 41134), (182, 41167), (189, 41209), (190, 41215), (228, 41311),

Gene: Dove_130 Start: 72680, Stop: 73033, Start Num: 110

Candidate Starts for Dove_130:

(Start: 110 @72680 has 35 MA's), (183, 72881), (189, 72923),

Gene: DrSierra_43 Start: 31383, Stop: 31799, Start Num: 113

Candidate Starts for DrSierra_43:

(Start: 113 @31383 has 40 MA's), (182, 31566), (192, 31620), (242, 31773), (244, 31791),

Gene: Drago_58 Start: 38960, Stop: 39325, Start Num: 107

Candidate Starts for Drago_58:

(Start: 107 @38960 has 244 MA's), (128, 38993), (138, 39008), (140, 39011), (149, 39050), (150, 39053), (154, 39074), (163, 39107), (172, 39128), (173, 39134), (182, 39167), (189, 39209), (190, 39215), (228, 39311),

Gene: Dropshot_57 Start: 33783, Stop: 34220, Start Num: 122

Candidate Starts for Dropshot_57:

(Start: 122 @33783 has 11 MA's), (154, 33879), (160, 33906), (180, 33954), (191, 34011), (192, 34017), (197, 34038), (223, 34104), (233, 34134), (238, 34158), (240, 34170),

Gene: Duke13_140 Start: 74382, Stop: 74735, Start Num: 110

Candidate Starts for Duke13_140:

(Start: 110 @74382 has 35 MA's), (183, 74583), (189, 74625),

Gene: Eesa_29 Start: 22456, Stop: 22103, Start Num: 105

Candidate Starts for Eesa_29:

(Start: 105 @22456 has 36 MA's), (152, 22357), (214, 22120),

Gene: Eish_64 Start: 41209, Stop: 41574, Start Num: 107

Candidate Starts for Eish_64:

(Start: 107 @41209 has 244 MA's), (128, 41242), (138, 41257), (140, 41260), (149, 41299), (150, 41302), (154, 41323), (163, 41356), (173, 41383), (182, 41416), (189, 41458), (190, 41464), (228, 41560),

Gene: Ejimix_137 Start: 77230, Stop: 77583, Start Num: 110

Candidate Starts for Ejimix_137:

(Start: 110 @77230 has 35 MA's), (183, 77431), (189, 77473),

Gene: EleanorGeorge_61 Start: 41073, Stop: 41438, Start Num: 107

Candidate Starts for EleanorGeorge_61:

(Start: 107 @41073 has 244 MA's), (128, 41106), (138, 41121), (140, 41124), (150, 41166), (154, 41187), (163, 41220), (173, 41247), (182, 41280), (189, 41322), (190, 41328), (228, 41424),

Gene: EmiMonkey_58 Start: 41923, Stop: 42288, Start Num: 107

Candidate Starts for EmiMonkey_58:

(Start: 107 @41923 has 244 MA's), (128, 41956), (138, 41971), (140, 41974), (149, 42013), (150, 42016), (154, 42037), (163, 42070), (173, 42097), (182, 42130), (189, 42172), (190, 42178), (228, 42274),

Gene: Emma_61 Start: 40009, Stop: 40374, Start Num: 107

Candidate Starts for Emma_61:

(Start: 107 @40009 has 244 MA's), (128, 40042), (140, 40060), (150, 40102), (157, 40132), (163, 40156), (165, 40159), (189, 40258), (190, 40264), (218, 40339), (220, 40342), (222, 40345),

Gene: Emmaloid_61 Start: 41019, Stop: 41384, Start Num: 107

Candidate Starts for Emmaloid_61:

(Start: 107 @41019 has 244 MA's), (128, 41052), (138, 41067), (140, 41070), (149, 41109), (150, 41112), (154, 41133), (163, 41166), (173, 41193), (182, 41226), (189, 41268), (190, 41274), (228, 41370),

Gene: Empress_58 Start: 39956, Stop: 40321, Start Num: 107

Candidate Starts for Empress_58:

(Start: 107 @39956 has 244 MA's), (128, 39989), (138, 40004), (140, 40007), (150, 40049), (154, 40070), (163, 40103), (172, 40124), (173, 40130), (182, 40163), (189, 40205), (190, 40211), (228, 40307),

Gene: Enby_61 Start: 39236, Stop: 39601, Start Num: 107

Candidate Starts for Enby_61:

(Start: 107 @39236 has 244 MA's), (128, 39269), (138, 39284), (140, 39287), (149, 39326), (150, 39329), (154, 39350), (163, 39383), (173, 39410), (182, 39443), (189, 39485), (190, 39491), (228, 39587),

Gene: Eradicator_53 Start: 38486, Stop: 38851, Start Num: 107

Candidate Starts for Eradicator_53:

(Start: 107 @38486 has 244 MA's), (128, 38519), (138, 38534), (140, 38537), (149, 38576), (150, 38579), (154, 38600), (163, 38633), (173, 38660), (182, 38693), (189, 38735), (190, 38741), (228, 38837),

Gene: EricMillard_136 Start: 75734, Stop: 76087, Start Num: 110

Candidate Starts for EricMillard_136:

(Start: 110 @75734 has 35 MA's), (183, 75935), (189, 75977),

Gene: Estave1_63 Start: 41407, Stop: 41772, Start Num: 107

Candidate Starts for Estave1_63:

(Start: 107 @41407 has 244 MA's), (128, 41440), (138, 41455), (140, 41458), (149, 41497), (150, 41500), (154, 41521), (163, 41554), (172, 41575), (173, 41581), (182, 41614), (189, 41656), (190, 41662), (228, 41758),

Gene: Evaa_48 Start: 41735, Stop: 41361, Start Num: 85

Candidate Starts for Evaa_48:

(38, 41960), (83, 41741), (Start: 85 @41735 has 14 MA's), (135, 41675), (148, 41630), (153, 41612), (154, 41603),

Gene: EvePickles_75 Start: 42959, Stop: 43348, Start Num: 114

Candidate Starts for EvePickles_75:

(Start: 114 @42959 has 50 MA's), (160, 43082), (173, 43115), (176, 43130), (187, 43184),

Gene: Faja_79 Start: 43731, Stop: 44132, Start Num: 114

Candidate Starts for Faja_79:

(Start: 114 @43731 has 50 MA's), (173, 43899), (187, 43968),

Gene: Fancypants_62 Start: 40927, Stop: 41292, Start Num: 107

Candidate Starts for Fancypants_62:

(Start: 107 @40927 has 244 MA's), (128, 40960), (138, 40975), (140, 40978), (150, 41020), (154, 41041), (172, 41095), (173, 41101), (182, 41134), (189, 41176), (190, 41182), (228, 41278),

Gene: Fastidio_60 Start: 39023, Stop: 39388, Start Num: 107

Candidate Starts for Fastidio_60:

(Start: 107 @39023 has 244 MA's), (128, 39056), (138, 39071), (140, 39074), (149, 39113), (150, 39116), (154, 39137), (173, 39197), (182, 39230), (189, 39272), (190, 39278), (214, 39347), (228, 39374),

Gene: Fenry_49 Start: 36364, Stop: 36726, Start Num: 101

Candidate Starts for Fenry_49:

(12, 35836), (32, 36049), (53, 36202), (58, 36220), (64, 36256), (76, 36295), (Start: 101 @36364 has 24 MA's), (155, 36493), (160, 36517), (225, 36712),

Gene: Filuzino_58 Start: 39299, Stop: 39664, Start Num: 107

Candidate Starts for Filuzino_58:

(Start: 107 @39299 has 244 MA's), (128, 39332), (132, 39338), (140, 39350), (150, 39392), (157, 39422), (163, 39446), (165, 39449), (189, 39548), (190, 39554), (218, 39629), (220, 39632),

Gene: Fingolfin_31 Start: 21210, Stop: 20869, Start Num: 105

Candidate Starts for Fingolfin_31:

(Start: 105 @21210 has 36 MA's), (Start: 118 @21192 has 9 MA's),

Gene: Firehouse51_61 Start: 43811, Stop: 44176, Start Num: 107

Candidate Starts for Firehouse51_61:

(Start: 107 @43811 has 244 MA's), (128, 43844), (138, 43859), (140, 43862), (149, 43901), (150, 43904), (154, 43925), (163, 43958), (173, 43985), (182, 44018), (189, 44060), (190, 44066), (228, 44162),

Gene: Flathead_60 Start: 40766, Stop: 41131, Start Num: 107

Candidate Starts for Flathead_60:

(Start: 107 @40766 has 244 MA's), (128, 40799), (132, 40805), (140, 40817), (150, 40859), (157, 40889), (163, 40913), (165, 40916), (189, 41015), (190, 41021), (218, 41096), (220, 41099), (222, 41102),

Gene: Florinda_71 Start: 42396, Stop: 42761, Start Num: 107

Candidate Starts for Florinda_71:

(Start: 107 @42396 has 244 MA's), (128, 42429), (135, 42438), (140, 42447), (150, 42489), (157, 42519), (163, 42543), (165, 42546), (189, 42645), (190, 42651), (218, 42726),

Gene: Flutur_45 Start: 33645, Stop: 34058, Start Num: 113

Candidate Starts for Flutur_45:

(28, 33315), (Start: 113 @33645 has 40 MA's), (143, 33699), (182, 33825), (192, 33879), (242, 34032), (244, 34050),

Gene: Footloose_58 Start: 33452, Stop: 33814, Start Num: 107

Candidate Starts for Footloose_58:

(78, 33380), (Start: 85 @33398 has 14 MA's), (Start: 93 @33416 has 1 MA's), (Start: 107 @33452 has 244 MA's), (116, 33464), (144, 33524), (151, 33557), (154, 33572), (160, 33599), (171, 33623), (182, 33659),

Gene: FreddyB_61 Start: 39138, Stop: 39503, Start Num: 107

Candidate Starts for FreddyB_61:

(Start: 107 @39138 has 244 MA's), (128, 39171), (138, 39186), (140, 39189), (149, 39228), (150, 39231), (154, 39252), (163, 39285), (173, 39312), (182, 39345), (189, 39387), (190, 39393), (228, 39489),

Gene: Fresco_48 Start: 41091, Stop: 40741, Start Num: 85

Candidate Starts for Fresco_48:

(Start: 85 @41091 has 14 MA's), (135, 41046), (140, 41037), (145, 41022), (154, 40974), (182, 40893),

Gene: Fruitloop_57 Start: 40613, Stop: 40978, Start Num: 107

Candidate Starts for Fruitloop_57:

(Start: 107 @40613 has 244 MA's), (128, 40646), (135, 40655), (140, 40664), (150, 40706), (157, 40736), (163, 40760), (165, 40763), (189, 40862), (190, 40868), (218, 40943),

Gene: GUmbie_58 Start: 39713, Stop: 40078, Start Num: 107

Candidate Starts for GUmbie_58:

(Start: 107 @39713 has 244 MA's), (128, 39746), (138, 39761), (140, 39764), (149, 39803), (150, 39806), (154, 39827), (163, 39860), (173, 39887), (182, 39920), (189, 39962), (190, 39968), (228, 40064),

Gene: Galactic_59 Start: 40176, Stop: 40541, Start Num: 107

Candidate Starts for Galactic_59:

(Start: 107 @40176 has 244 MA's), (128, 40209), (138, 40224), (140, 40227), (149, 40266), (150, 40269), (154, 40290), (173, 40350), (182, 40383), (189, 40425), (190, 40431), (228, 40527),

Gene: Gandalph_63 Start: 40535, Stop: 40900, Start Num: 107

Candidate Starts for Gandalph_63:

(Start: 107 @40535 has 244 MA's), (128, 40568), (138, 40583), (140, 40586), (150, 40628), (154, 40649), (163, 40682), (173, 40709), (182, 40742), (189, 40784), (190, 40790), (228, 40886),

Gene: GigiOuiOui_56 Start: 39153, Stop: 39518, Start Num: 107

Candidate Starts for GigiOuiOui_56:

(Start: 107 @39153 has 244 MA's), (128, 39186), (138, 39201), (140, 39204), (149, 39243), (150, 39246), (154, 39267), (173, 39327), (182, 39360), (189, 39402), (190, 39408), (228, 39504),

Gene: Girafales_69 Start: 42187, Stop: 42552, Start Num: 107

Candidate Starts for Girafales_69:

(Start: 107 @42187 has 244 MA's), (128, 42220), (135, 42229), (140, 42238), (150, 42280), (157, 42310), (163, 42334), (165, 42337), (189, 42436), (190, 42442), (218, 42517),

Gene: Girr_58 Start: 40017, Stop: 40382, Start Num: 107

Candidate Starts for Girr_58:

(Start: 107 @40017 has 244 MA's), (128, 40050), (138, 40065), (140, 40068), (149, 40107), (150, 40110), (154, 40131), (173, 40191), (182, 40224), (189, 40266), (190, 40272), (228, 40368),

Gene: Globfish_76 Start: 41426, Stop: 41815, Start Num: 114

Candidate Starts for Globfish_76:

(Start: 114 @41426 has 50 MA's), (160, 41549), (173, 41582), (176, 41597), (187, 41651),

Gene: Glotell_32 Start: 21366, Stop: 21025, Start Num: 105

Candidate Starts for Glotell_32:

(Start: 105 @21366 has 36 MA's), (Start: 118 @21348 has 9 MA's),

Gene: GoldDust_45 Start: 35305, Stop: 35673, Start Num: 113

Candidate Starts for GoldDust_45:

(Start: 113 @35305 has 40 MA's), (173, 35458), (182, 35491), (184, 35506),

Gene: Gooberta_45 Start: 35304, Stop: 35672, Start Num: 113

Candidate Starts for Gooberta_45:

(Start: 113 @35304 has 40 MA's), (173, 35457), (182, 35490), (184, 35505),

Gene: Gorge_64 Start: 41655, Stop: 42020, Start Num: 107

Candidate Starts for Gorge_64:

(Start: 107 @41655 has 244 MA's), (128, 41688), (138, 41703), (140, 41706), (149, 41745), (150, 41748), (154, 41769), (163, 41802), (173, 41829), (182, 41862), (189, 41904), (190, 41910), (228, 42006),

Gene: Gorpy_74 Start: 42930, Stop: 43331, Start Num: 114

Candidate Starts for Gorpy_74:

(40, 42684), (Start: 114 @42930 has 50 MA's), (173, 43098), (187, 43167),

Gene: GramZayde_33 Start: 22017, Stop: 21667, Start Num: 105

Candidate Starts for GramZayde_33:

(13, 22524), (29, 22341), (50, 22200), (68, 22107), (Start: 105 @22017 has 36 MA's), (214, 21684),

Gene: Gravel_33 Start: 22425, Stop: 22072, Start Num: 105

Candidate Starts for Gravel_33:

(Start: 105 @22425 has 36 MA's), (152, 22326), (214, 22089),

Gene: Greely_69 Start: 25152, Stop: 25580, Start Num: 85

Candidate Starts for Greely_69:

(Start: 85 @25152 has 14 MA's), (124, 25233), (149, 25296), (160, 25347), (177, 25386), (182, 25401), (194, 25464),

Gene: Grimmer_70 Start: 41812, Stop: 42177, Start Num: 107

Candidate Starts for Grimmer_70:

(Start: 107 @41812 has 244 MA's), (128, 41845), (138, 41860), (140, 41863), (149, 41902), (150, 41905), (154, 41926), (173, 41986), (182, 42019), (189, 42061), (190, 42067), (228, 42163),

Gene: Guacamole_48 Start: 35005, Stop: 35367, Start Num: 101

Candidate Starts for Guacamole_48:

(58, 34861), (64, 34897), (76, 34936), (Start: 101 @35005 has 24 MA's), (148, 35104), (154, 35131), (155, 35134), (160, 35158), (225, 35353),

Gene: GumGum_81 Start: 42873, Stop: 43274, Start Num: 114

Candidate Starts for GumGum_81:

(Start: 114 @42873 has 50 MA's), (173, 43041), (187, 43110),

Gene: Guzman_57 Start: 34003, Stop: 34440, Start Num: 122

Candidate Starts for Guzman_57:

(8, 33403), (Start: 122 @34003 has 11 MA's), (154, 34099), (160, 34126), (180, 34174), (191, 34231), (192, 34237), (197, 34258), (223, 34324), (233, 34354), (238, 34378), (240, 34390),

Gene: Hades_61 Start: 41111, Stop: 41476, Start Num: 107

Candidate Starts for Hades_61:

(Start: 107 @41111 has 244 MA's), (128, 41144), (138, 41159), (140, 41162), (149, 41201), (150, 41204), (154, 41225), (163, 41258), (173, 41285), (182, 41318), (189, 41360), (190, 41366), (214, 41435), (228, 41462),

Gene: Halley_146 Start: 77546, Stop: 77899, Start Num: 110

Candidate Starts for Halley_146:

(Start: 110 @77546 has 35 MA's), (183, 77747), (189, 77789),

Gene: HamCheese_31 Start: 21194, Stop: 20853, Start Num: 105

Candidate Starts for HamCheese_31:

(Start: 105 @21194 has 36 MA's), (Start: 118 @21176 has 9 MA's),

Gene: Hamulus_61 Start: 40756, Stop: 41121, Start Num: 107

Candidate Starts for Hamulus_61:

(Start: 107 @40756 has 244 MA's), (128, 40789), (132, 40795), (140, 40807), (150, 40849), (157, 40879), (163, 40903), (165, 40906), (189, 41005), (190, 41011), (218, 41086), (220, 41089), (222, 41092),

Gene: Harley_62 Start: 40658, Stop: 41011, Start Num: 107

Candidate Starts for Harley_62:

(Start: 93 @40622 has 1 MA's), (Start: 107 @40658 has 244 MA's), (Start: 127 @40688 has 1 MA's), (128, 40691), (136, 40703), (140, 40709), (154, 40772), (157, 40781), (189, 40901), (194, 40922), (216, 40979), (226, 40991),

Gene: Harley_61 Start: 40314, Stop: 40661, Start Num: 108

Candidate Starts for Harley_61:

(96, 40287), (103, 40305), (Start: 108 @40314 has 30 MA's), (128, 40344), (135, 40353), (142, 40371), (154, 40425), (163, 40452), (182, 40509), (186, 40539), (189, 40551),

Gene: Hashim76_90 Start: 66062, Stop: 65649, Start Num: 91

Candidate Starts for Hashim76_90:

(Start: 91 @66062 has 3 MA's), (131, 65981), (158, 65894), (173, 65852), (182, 65819), (197, 65744),

Gene: Hawkeye_86 Start: 58033, Stop: 58440, Start Num: 109

Candidate Starts for Hawkeye_86:

(77, 57952), (Start: 85 @57976 has 14 MA's), (88, 57982), (Start: 107 @58030 has 244 MA's), (Start: 109 @58033 has 1 MA's), (145, 58096), (186, 58261), (193, 58288), (194, 58294), (218, 58363), (234, 58411),

Gene: Hedwig_57 Start: 38509, Stop: 38871, Start Num: 101

Candidate Starts for Hedwig_57:

(27, 38158), (Start: 101 @38509 has 24 MA's), (154, 38632),

Gene: Hegedechwinu_60 Start: 39325, Stop: 39690, Start Num: 107

Candidate Starts for Hegedechwinu_60:

(Start: 107 @39325 has 244 MA's), (128, 39358), (138, 39373), (140, 39376), (149, 39415), (150, 39418), (154, 39439), (163, 39472), (173, 39499), (182, 39532), (189, 39574), (190, 39580), (228, 39676),

Gene: Hestia_70 Start: 39954, Stop: 40355, Start Num: 114

Candidate Starts for Hestia_70:

(Start: 114 @39954 has 50 MA's), (173, 40122), (187, 40191),

Gene: Hidrated_130 Start: 75865, Stop: 76218, Start Num: 110

Candidate Starts for Hidrated_130:

(Start: 110 @75865 has 35 MA's), (183, 76066), (189, 76108),

Gene: Hillester_80 Start: 42975, Stop: 43364, Start Num: 114

Candidate Starts for Hillester_80:

(1, 41406), (2, 41541), (3, 41652), (4, 41688), (5, 41751), (11, 42429), (31, 42645), (Start: 114 @42975 has 50 MA's), (160, 43098), (173, 43131), (176, 43146), (187, 43200), (214, 43290),

Gene: Hirko_43 Start: 34532, Stop: 34897, Start Num: 113

Candidate Starts for Hirko_43:

(Start: 113 @34532 has 40 MA's), (173, 34685), (182, 34718), (184, 34733), (203, 34814),

Gene: Hitter_51 Start: 34662, Stop: 35024, Start Num: 101

Candidate Starts for Hitter_51:

(58, 34518), (64, 34554), (76, 34593), (Start: 101 @34662 has 24 MA's), (155, 34791), (160, 34815), (225, 35010),

Gene: Hlubikazi_56 Start: 38331, Stop: 38696, Start Num: 107

Candidate Starts for Hlubikazi_56:

(Start: 107 @38331 has 244 MA's), (128, 38364), (138, 38379), (140, 38382), (150, 38424), (154, 38445), (163, 38478), (172, 38499), (173, 38505), (189, 38580), (190, 38586), (228, 38682),

Gene: HokkenD_137 Start: 76705, Stop: 77058, Start Num: 110

Candidate Starts for HokkenD_137:

(70, 76603), (Start: 110 @76705 has 35 MA's), (183, 76906), (189, 76948),

Gene: Hortus1_71 Start: 44930, Stop: 44580, Start Num: 118

Candidate Starts for Hortus1_71:

(62, 45071), (87, 44987), (Start: 118 @44930 has 9 MA's), (134, 44903), (139, 44894), (141, 44891), (155, 44828), (160, 44804), (206, 44627), (211, 44612), (223, 44591),

Gene: Hughesyang_143 Start: 77316, Stop: 77669, Start Num: 110

Candidate Starts for Hughesyang_143:

(Start: 110 @77316 has 35 MA's), (183, 77517), (189, 77559),

Gene: IMpilo_54 Start: 37409, Stop: 37756, Start Num: 108

Candidate Starts for IMpilo_54:

(96, 37382), (103, 37400), (Start: 108 @37409 has 30 MA's), (121, 37421), (Start: 122 @37424 has 11 MA's), (128, 37439), (135, 37448), (142, 37466), (154, 37520), (163, 37547), (182, 37604), (186, 37634), (189, 37646),

Gene: IMpilo_55 Start: 37786, Stop: 38106, Start Num: 128

Candidate Starts for IMpilo_55:

(Start: 93 @37717 has 1 MA's), (Start: 107 @37753 has 244 MA's), (Start: 127 @37783 has 1 MA's), (128, 37786), (136, 37798), (140, 37804), (154, 37867), (157, 37876), (158, 37882), (189, 37996), (194, 38017), (216, 38074), (226, 38086),

Gene: IUFootball_46 Start: 34755, Stop: 35162, Start Num: 113

Candidate Starts for IUFootball_46:

(Start: 101 @34737 has 24 MA's), (Start: 113 @34755 has 40 MA's), (139, 34800), (152, 34845), (154, 34860),

Gene: IbOuu_59 Start: 40693, Stop: 41058, Start Num: 107

Candidate Starts for IbOuu_59:

(Start: 107 @40693 has 244 MA's), (128, 40726), (138, 40741), (140, 40744), (149, 40783), (150, 40786), (154, 40807), (163, 40840), (173, 40867), (182, 40900), (189, 40942), (190, 40948), (228, 41044),

Gene: Ibhubesi_60 Start: 40300, Stop: 40665, Start Num: 107

Candidate Starts for Ibhubesi_60:

(Start: 107 @40300 has 244 MA's), (128, 40333), (138, 40348), (140, 40351), (149, 40390), (150, 40393), (154, 40414), (173, 40474), (182, 40507), (189, 40549), (190, 40555), (214, 40624), (228, 40651),

Gene: Indlovu_79 Start: 64345, Stop: 63932, Start Num: 113

Candidate Starts for Indlovu_79:

(37, 64654), (44, 64579), (49, 64558), (52, 64537), (61, 64495), (80, 64417), (88, 64399), (92, 64390), (Start: 113 @64345 has 40 MA's), (154, 64231), (157, 64222), (207, 64042),

Gene: Inventum_55 Start: 39804, Stop: 40169, Start Num: 107

Candidate Starts for Inventum_55:

(Start: 107 @39804 has 244 MA's), (128, 39837), (138, 39852), (140, 39855), (149, 39894), (150, 39897), (154, 39918), (163, 39951), (173, 39978), (182, 40011), (189, 40053), (190, 40059), (228, 40155),

Gene: IrishSherpFalk_61 Start: 41968, Stop: 42333, Start Num: 107

Candidate Starts for IrishSherpFalk_61:

(Start: 107 @41968 has 244 MA's), (128, 42001), (138, 42016), (140, 42019), (149, 42058), (150, 42061), (154, 42082), (173, 42142), (182, 42175), (189, 42217), (190, 42223), (228, 42319),

Gene: Isolde_74 Start: 41800, Stop: 42201, Start Num: 114

Candidate Starts for Isolde_74:

(65, 41689), (Start: 114 @41800 has 50 MA's), (173, 41968), (187, 42037),

Gene: Iter_45 Start: 33105, Stop: 33509, Start Num: 113

Candidate Starts for Iter_45:

(Start: 113 @33105 has 40 MA's), (152, 33192), (182, 33285), (192, 33339), (239, 33483), (243, 33501),

Gene: IttyBittyPiggy_46 Start: 32844, Stop: 33215, Start Num: 113

Candidate Starts for IttyBittyPiggy_46:

(Start: 113 @32844 has 40 MA's), (143, 32898), (182, 33024), (192, 33078),

Gene: Jabbawokkie_74 Start: 42036, Stop: 42401, Start Num: 107

Candidate Starts for Jabbawokkie_74:

(Start: 107 @42036 has 244 MA's), (128, 42069), (138, 42084), (140, 42087), (149, 42126), (150, 42129), (154, 42150), (163, 42183), (173, 42210), (182, 42243), (189, 42285), (190, 42291), (228, 42387),

Gene: JakeTheSnake_79 Start: 44784, Stop: 45149, Start Num: 114

Candidate Starts for JakeTheSnake_79:

(Start: 114 @44784 has 50 MA's), (141, 44817), (154, 44880), (173, 44940), (186, 45003),

Gene: Jakelyne_60 Start: 34149, Stop: 34586, Start Num: 122

Candidate Starts for Jakelyne_60:

(7, 33513), (Start: 122 @34149 has 11 MA's), (154, 34245), (160, 34272), (180, 34320), (191, 34377), (192, 34383), (197, 34404), (223, 34470), (233, 34500), (240, 34536),

Gene: JalFarm20_72 Start: 43806, Stop: 44159, Start Num: 107

Candidate Starts for JalFarm20_72:

(Start: 93 @43770 has 1 MA's), (Start: 107 @43806 has 244 MA's), (Start: 127 @43836 has 1 MA's), (128, 43839), (136, 43851), (140, 43857), (154, 43920), (157, 43929), (158, 43935), (189, 44049), (194, 44070), (216, 44127), (226, 44139),

Gene: JalFarm20_71 Start: 43462, Stop: 43809, Start Num: 108

Candidate Starts for JalFarm20_71:

(96, 43435), (103, 43453), (Start: 108 @43462 has 30 MA's), (128, 43492), (135, 43501), (142, 43519), (154, 43573), (163, 43600), (182, 43657), (186, 43687), (189, 43699),

Gene: Jalammah_54 Start: 37665, Stop: 38027, Start Num: 101

Candidate Starts for Jalammah_54:

(58, 37521), (64, 37557), (76, 37596), (Start: 101 @37665 has 24 MA's), (155, 37794), (160, 37818), (225, 38013),

Gene: James_64 Start: 41780, Stop: 42145, Start Num: 107

Candidate Starts for James_64:

(Start: 107 @41780 has 244 MA's), (128, 41813), (138, 41828), (140, 41831), (149, 41870), (150, 41873), (154, 41894), (163, 41927), (173, 41954), (182, 41987), (189, 42029), (190, 42035), (228, 42131),

Gene: Jamun_29 Start: 21575, Stop: 21234, Start Num: 105

Candidate Starts for Jamun_29:

(Start: 105 @21575 has 36 MA's), (152, 21482), (194, 21311), (212, 21251), (214, 21248),

Gene: Janeemi_48 Start: 35112, Stop: 35516, Start Num: 113

Candidate Starts for Janeemi_48:

(Start: 113 @35112 has 40 MA's), (182, 35292), (192, 35346), (239, 35490), (243, 35508),

Gene: Jant_63 Start: 41384, Stop: 41737, Start Num: 107

Candidate Starts for Jant_63:

(Start: 93 @41348 has 1 MA's), (Start: 107 @41384 has 244 MA's), (Start: 127 @41414 has 1 MA's), (128, 41417), (136, 41429), (140, 41435), (154, 41498), (157, 41507), (158, 41513), (189, 41627), (194, 41648), (216, 41705), (226, 41717),

Gene: Jant_62 Start: 41040, Stop: 41387, Start Num: 108

Candidate Starts for Jant_62:

(96, 41013), (103, 41031), (Start: 108 @41040 has 30 MA's), (128, 41070), (135, 41079), (142, 41097), (154, 41151), (163, 41178), (182, 41235), (186, 41265), (189, 41277),

Gene: Jacob_60 Start: 40261, Stop: 40626, Start Num: 107

Candidate Starts for Jacob_60:

(Start: 107 @40261 has 244 MA's), (128, 40294), (138, 40309), (140, 40312), (149, 40351), (150, 40354), (154, 40375), (163, 40408), (172, 40429), (173, 40435), (182, 40468), (189, 40510), (190, 40516), (228, 40612),

Gene: JasperJr_48 Start: 35005, Stop: 35367, Start Num: 101

Candidate Starts for JasperJr_48:

(58, 34861), (64, 34897), (76, 34936), (Start: 101 @35005 has 24 MA's), (148, 35104), (154, 35131), (155, 35134), (160, 35158), (225, 35353),

Gene: JellyBelly_47 Start: 40437, Stop: 40117, Start Num: 112

Candidate Starts for JellyBelly_47:

(Start: 85 @40455 has 14 MA's), (Start: 112 @40437 has 1 MA's), (154, 40350), (190, 40221),

Gene: JellyBread_73 Start: 41945, Stop: 42346, Start Num: 114

Candidate Starts for JellyBread_73:

(Start: 114 @41945 has 50 MA's), (173, 42113), (187, 42182),

Gene: Jennelsea_57 Start: 38940, Stop: 39305, Start Num: 107

Candidate Starts for Jennelsea_57:

(Start: 107 @38940 has 244 MA's), (128, 38973), (138, 38988), (140, 38991), (149, 39030), (150, 39033), (154, 39054), (163, 39087), (172, 39108), (173, 39114), (182, 39147), (189, 39189), (190, 39195), (228, 39291),

Gene: Jinglebell_65 Start: 42815, Stop: 43180, Start Num: 107

Candidate Starts for Jinglebell_65:

(Start: 107 @42815 has 244 MA's), (128, 42848), (138, 42863), (140, 42866), (149, 42905), (150, 42908), (154, 42929), (163, 42962), (173, 42989), (182, 43022), (189, 43064), (190, 43070), (228, 43166),

Gene: Job42_62 Start: 42198, Stop: 42563, Start Num: 107

Candidate Starts for Job42_62:

(Start: 107 @42198 has 244 MA's), (128, 42231), (138, 42246), (140, 42249), (149, 42288), (150, 42291), (154, 42312), (163, 42345), (172, 42366), (173, 42372), (182, 42405), (189, 42447), (190, 42453), (228, 42549),

Gene: Joemato_46 Start: 33415, Stop: 33828, Start Num: 113

Candidate Starts for Joemato_46:

(28, 33085), (Start: 113 @33415 has 40 MA's), (143, 33469), (182, 33595), (192, 33649), (242, 33802), (244, 33820),

Gene: JoeyJr_55 Start: 38710, Stop: 39075, Start Num: 107

Candidate Starts for JoeyJr_55:

(Start: 107 @38710 has 244 MA's), (128, 38743), (138, 38758), (140, 38761), (150, 38803), (154, 38824), (163, 38857), (172, 38878), (173, 38884), (182, 38917), (189, 38959), (190, 38965), (228, 39061),

Gene: JohnDoe_46 Start: 33411, Stop: 33824, Start Num: 113

Candidate Starts for JohnDoe_46:

(28, 33081), (Start: 113 @33411 has 40 MA's), (143, 33465), (182, 33591), (192, 33645), (242, 33798), (244, 33816),

Gene: Juice456_60 Start: 41762, Stop: 42115, Start Num: 107

Candidate Starts for Juice456_60:

(Start: 93 @41726 has 1 MA's), (Start: 107 @41762 has 244 MA's), (Start: 127 @41792 has 1 MA's), (128, 41795), (136, 41807), (140, 41813), (154, 41876), (157, 41885), (158, 41891), (189, 42005), (194, 42026), (216, 42083), (226, 42095),

Gene: Juice456_59 Start: 41418, Stop: 41765, Start Num: 108

Candidate Starts for Juice456_59:

(96, 41391), (103, 41409), (Start: 108 @41418 has 30 MA's), (128, 41448), (135, 41457), (142, 41475), (154, 41529), (163, 41556), (182, 41613), (186, 41643), (189, 41655),

Gene: JuicyJay_140 Start: 78831, Stop: 79184, Start Num: 110

Candidate Starts for JuicyJay_140:

(Start: 110 @78831 has 35 MA's), (183, 79032), (189, 79074),

Gene: JuneStar_48 Start: 35661, Stop: 36011, Start Num: 113

Candidate Starts for JuneStar_48:

(Start: 113 @35661 has 40 MA's), (143, 35715), (182, 35841),

Gene: Juniper1_56 Start: 39354, Stop: 39701, Start Num: 108

Candidate Starts for Juniper1_56:

(96, 39327), (103, 39345), (Start: 108 @39354 has 30 MA's), (121, 39366), (Start: 122 @39369 has 11 MA's), (128, 39384), (135, 39393), (142, 39411), (154, 39465), (163, 39492), (182, 39549), (186, 39579), (189, 39591),

Gene: Juniper1_59 Start: 40443, Stop: 40808, Start Num: 107

Candidate Starts for Juniper1_59:

(30, 40104), (33, 40122), (45, 40221), (47, 40230), (72, 40347), (74, 40353), (75, 40356), (Start: 107 @40443 has 244 MA's), (128, 40476), (135, 40485), (140, 40494), (154, 40557), (157, 40566), (165, 40593), (169, 40605), (173, 40617), (190, 40698), (216, 40770), (218, 40773),

Gene: Juniper1_57 Start: 39698, Stop: 40051, Start Num: 107

Candidate Starts for Juniper1_57:

(Start: 93 @39662 has 1 MA's), (Start: 107 @39698 has 244 MA's), (Start: 127 @39728 has 1 MA's), (128, 39731), (136, 39743), (140, 39749), (154, 39812), (157, 39821), (158, 39827), (189, 39941), (194, 39962), (216, 40019), (226, 40031),

Gene: Juno112_30 Start: 21210, Stop: 20869, Start Num: 105

Candidate Starts for Juno112_30:

(Start: 105 @21210 has 36 MA's), (Start: 118 @21192 has 9 MA's),

Gene: KHumphrey_31 Start: 21190, Stop: 20867, Start Num: 118

Candidate Starts for KHumphrey_31:

(Start: 105 @21208 has 36 MA's), (Start: 118 @21190 has 9 MA's),

Gene: Kabloowy_76 Start: 42829, Stop: 43230, Start Num: 114

Candidate Starts for Kabloowy_76:

(Start: 114 @42829 has 50 MA's), (173, 42997), (187, 43066),

Gene: Kalah2_135 Start: 76437, Stop: 76790, Start Num: 110

Candidate Starts for Kalah2_135:

(Start: 110 @76437 has 35 MA's), (183, 76638), (189, 76680),

Gene: Karhdo_57 Start: 39806, Stop: 40171, Start Num: 107

Candidate Starts for Karhdo_57:

(Start: 107 @39806 has 244 MA's), (128, 39839), (138, 39854), (140, 39857), (149, 39896), (150, 39899), (154, 39920), (163, 39953), (173, 39980), (182, 40013), (189, 40055), (190, 40061), (228, 40157),

Gene: KashFlow_143 Start: 75737, Stop: 76090, Start Num: 110

Candidate Starts for KashFlow_143:

(70, 75635), (Start: 110 @75737 has 35 MA's), (183, 75938), (189, 75980),

Gene: Kaylissa_47 Start: 33807, Stop: 34220, Start Num: 113

Candidate Starts for Kaylissa_47:

(Start: 113 @33807 has 40 MA's), (143, 33861), (182, 33987), (192, 34041), (242, 34194), (244, 34212),

Gene: KendraB23_34 Start: 22613, Stop: 22260, Start Num: 105

Candidate Starts for KendraB23_34:

(Start: 105 @22613 has 36 MA's), (152, 22514), (214, 22277),

Gene: Kenuha5_57 Start: 38874, Stop: 39239, Start Num: 107

Candidate Starts for Kenuha5_57:

(Start: 107 @38874 has 244 MA's), (128, 38907), (132, 38913), (140, 38925), (150, 38967), (157, 38997), (163, 39021), (165, 39024), (189, 39123), (190, 39129), (218, 39204),

Gene: Kersh_62 Start: 42556, Stop: 42921, Start Num: 107

Candidate Starts for Kersh_62:

(Start: 107 @42556 has 244 MA's), (128, 42589), (138, 42604), (140, 42607), (149, 42646), (150, 42649), (154, 42670), (163, 42703), (172, 42724), (173, 42730), (182, 42763), (189, 42805), (190, 42811), (228, 42907),

Gene: Kimberlium_60 Start: 41117, Stop: 41464, Start Num: 108

Candidate Starts for Kimberlium_60:

(96, 41090), (103, 41108), (Start: 108 @41117 has 30 MA's), (128, 41147), (135, 41156), (142, 41174), (154, 41228), (163, 41255), (182, 41312), (186, 41342), (189, 41354),

Gene: Kimberlium_63 Start: 42089, Stop: 42454, Start Num: 107

Candidate Starts for Kimberlium_63:

(Start: 107 @42089 has 244 MA's), (128, 42122), (138, 42137), (140, 42140), (149, 42179), (150, 42182), (154, 42203), (163, 42236), (172, 42257), (173, 42263), (182, 42296), (189, 42338), (190, 42344), (228, 42440),

Gene: Kimberlium_61 Start: 41461, Stop: 41814, Start Num: 107

Candidate Starts for Kimberlium_61:

(Start: 93 @41425 has 1 MA's), (Start: 107 @41461 has 244 MA's), (Start: 127 @41491 has 1 MA's), (128, 41494), (136, 41506), (140, 41512), (154, 41575), (157, 41584), (158, 41590), (189, 41704), (194, 41725), (216, 41782), (226, 41794),

Gene: KingJulian_60 Start: 39332, Stop: 39697, Start Num: 107

Candidate Starts for KingJulian_60:

(Start: 107 @39332 has 244 MA's), (128, 39365), (138, 39380), (140, 39383), (149, 39422), (150, 39425), (154, 39446), (163, 39479), (173, 39506), (182, 39539), (189, 39581), (190, 39587), (228, 39683),

Gene: KingMidas_59 Start: 40372, Stop: 40737, Start Num: 107

Candidate Starts for KingMidas_59:

(Start: 107 @40372 has 244 MA's), (128, 40405), (138, 40420), (140, 40423), (150, 40465), (154, 40486), (163, 40519), (172, 40540), (173, 40546), (182, 40579), (189, 40621), (190, 40627), (228, 40723),

Gene: Kingsley_56 Start: 38804, Stop: 39157, Start Num: 107

Candidate Starts for Kingsley_56:

(Start: 93 @38768 has 1 MA's), (Start: 107 @38804 has 244 MA's), (Start: 127 @38834 has 1 MA's), (128, 38837), (136, 38849), (140, 38855), (154, 38918), (157, 38927), (158, 38933), (189, 39047), (194, 39068), (216, 39125), (226, 39137),

Gene: Kingsley_55 Start: 38460, Stop: 38807, Start Num: 108

Candidate Starts for Kingsley_55:

(96, 38433), (103, 38451), (Start: 108 @38460 has 30 MA's), (128, 38490), (135, 38499), (142, 38517), (154, 38571), (163, 38598), (182, 38655), (186, 38685), (189, 38697),

Gene: Klein_142 Start: 75039, Stop: 75392, Start Num: 110

Candidate Starts for Klein_142:

(Start: 110 @75039 has 35 MA's), (183, 75240), (189, 75282),

Gene: Klevey_55 Start: 37550, Stop: 37951, Start Num: 114

Candidate Starts for Klevey_55:

(Start: 114 @37550 has 50 MA's),

Gene: Koella_54 Start: 36191, Stop: 36556, Start Num: 107

Candidate Starts for Koella_54:

(Start: 107 @36191 has 244 MA's), (128, 36224), (138, 36239), (140, 36242), (149, 36281), (150, 36284), (154, 36305), (163, 36338), (173, 36365), (182, 36398), (189, 36440), (190, 36446), (228, 36542),

Gene: Krakatau_57 Start: 39569, Stop: 39934, Start Num: 107

Candidate Starts for Krakatau_57:

(Start: 107 @39569 has 244 MA's), (128, 39602), (140, 39620), (157, 39692), (163, 39716), (165, 39719), (189, 39818), (190, 39824), (218, 39899),

Gene: KristaRAM_63 Start: 42760, Stop: 43125, Start Num: 107

Candidate Starts for KristaRAM_63:

(Start: 107 @42760 has 244 MA's), (128, 42793), (138, 42808), (140, 42811), (150, 42853), (154, 42874), (163, 42907), (173, 42934), (182, 42967), (189, 43009), (190, 43015), (228, 43111),

Gene: Laphuphu24k_29 Start: 21194, Stop: 20853, Start Num: 105

Candidate Starts for Laphuphu24k_29:

(Start: 105 @21194 has 36 MA's), (Start: 118 @21176 has 9 MA's),

Gene: Lasker_76 Start: 43324, Stop: 43713, Start Num: 114

Candidate Starts for Lasker_76:

(1, 41755), (2, 41890), (3, 42001), (4, 42037), (5, 42100), (11, 42778), (31, 42994), (Start: 114 @43324 has 50 MA's), (160, 43447), (173, 43480), (176, 43495), (187, 43549), (214, 43639),

Gene: LastJedi_54 Start: 37508, Stop: 37873, Start Num: 107

Candidate Starts for LastJedi_54:

(Start: 107 @37508 has 244 MA's), (128, 37541), (138, 37556), (140, 37559), (149, 37598), (150, 37601), (154, 37622), (163, 37655), (173, 37682), (182, 37715), (189, 37757), (190, 37763), (228, 37859),

Gene: Latretium_62 Start: 40834, Stop: 41199, Start Num: 107

Candidate Starts for Latretium_62:

(Start: 107 @40834 has 244 MA's), (128, 40867), (138, 40882), (140, 40885), (149, 40924), (150, 40927), (154, 40948), (173, 41008), (182, 41041), (189, 41083), (190, 41089), (228, 41185),

Gene: Lawnathon_78 Start: 42050, Stop: 42439, Start Num: 114

Candidate Starts for Lawnathon_78:

(Start: 114 @42050 has 50 MA's), (160, 42173), (173, 42206), (176, 42221), (187, 42275),

Gene: LeBruni_77 Start: 41868, Stop: 42263, Start Num: 114

Candidate Starts for LeBruni_77:

(Start: 114 @41868 has 50 MA's), (139, 41913), (160, 42006), (173, 42039), (192, 42126), (194, 42135), (230, 42237),

Gene: Lego_45 Start: 33126, Stop: 33539, Start Num: 113

Candidate Starts for Lego_45:

(Start: 113 @33126 has 40 MA's), (143, 33180), (182, 33306), (192, 33360), (242, 33513), (244, 33531),

Gene: Leona_30 Start: 21281, Stop: 20940, Start Num: 105

Candidate Starts for Leona_30:

(Start: 105 @21281 has 36 MA's), (156, 21173), (161, 21152),

Gene: Leozinho_59 Start: 39590, Stop: 39955, Start Num: 107

Candidate Starts for Leozinho_59:

(Start: 107 @39590 has 244 MA's), (128, 39623), (138, 39638), (140, 39641), (150, 39683), (154, 39704), (163, 39737), (172, 39758), (173, 39764), (182, 39797), (189, 39839), (190, 39845), (228, 39941),

Gene: Leperchaun_52 Start: 37940, Stop: 38305, Start Num: 107

Candidate Starts for Leperchaun_52:

(Start: 107 @37940 has 244 MA's), (128, 37973), (138, 37988), (140, 37991), (150, 38033), (154, 38054), (163, 38087), (172, 38108), (173, 38114), (182, 38147), (189, 38189), (190, 38195), (228, 38291),

Gene: Liebe_46 Start: 34755, Stop: 35162, Start Num: 113

Candidate Starts for Liebe_46:

(Start: 101 @34737 has 24 MA's), (Start: 113 @34755 has 40 MA's), (139, 34800), (152, 34845), (154, 34860),

Gene: Ligma_48 Start: 41091, Stop: 40741, Start Num: 85

Candidate Starts for Ligma_48:

(Start: 85 @41091 has 14 MA's), (135, 41046), (140, 41037), (145, 41022), (154, 40974), (182, 40893),

Gene: LilMoolah_58 Start: 39703, Stop: 40068, Start Num: 107

Candidate Starts for LilMoolah_58:

(Start: 107 @39703 has 244 MA's), (128, 39736), (138, 39751), (140, 39754), (149, 39793), (150, 39796), (154, 39817), (163, 39850), (172, 39871), (173, 39877), (182, 39910), (189, 39952), (190, 39958), (228, 40054),

Gene: Lilmac1015_57 Start: 38014, Stop: 38406, Start Num: 114

Candidate Starts for Lilmac1015_57:

(Start: 114 @38014 has 50 MA's), (200, 38299), (214, 38335),

Gene: LittleMinkey_96 Start: 66537, Stop: 66124, Start Num: 91

Candidate Starts for LittleMinkey_96:

(Start: 91 @66537 has 3 MA's), (131, 66456), (158, 66369), (173, 66327), (182, 66294), (197, 66219),

Gene: LittleMunchkin_50 Start: 44298, Stop: 43924, Start Num: 85

Candidate Starts for LittleMunchkin_50:

(38, 44523), (Start: 85 @44298 has 14 MA's), (140, 44229), (153, 44175), (158, 44151), (211, 43965),

Gene: LittleShirley_59 Start: 40750, Stop: 41115, Start Num: 107

Candidate Starts for LittleShirley_59:

(Start: 107 @40750 has 244 MA's), (128, 40783), (138, 40798), (140, 40801), (149, 40840), (150, 40843), (154, 40864), (163, 40897), (173, 40924), (182, 40957), (189, 40999), (190, 41005), (228, 41101),

Gene: LittleTokyo_33 Start: 21980, Stop: 21597, Start Num: 105

Candidate Starts for LittleTokyo_33:

(Start: 105 @21980 has 36 MA's), (185, 21776),

Gene: Lizalica_44 Start: 32567, Stop: 32941, Start Num: 113

Candidate Starts for Lizalica_44:

(Start: 113 @32567 has 40 MA's), (154, 32672), (182, 32750), (192, 32804),

Gene: Lizziana_66 Start: 41261, Stop: 41626, Start Num: 107

Candidate Starts for Lizziana_66:

(Start: 107 @41261 has 244 MA's), (128, 41294), (138, 41309), (140, 41312), (149, 41351), (150, 41354), (154, 41375), (163, 41408), (173, 41435), (182, 41468), (189, 41510), (190, 41516), (228, 41612),

Gene: Llama_65 Start: 42669, Stop: 43034, Start Num: 107

Candidate Starts for Llama_65:

(Start: 107 @42669 has 244 MA's), (128, 42702), (138, 42717), (140, 42720), (149, 42759), (150, 42762), (154, 42783), (163, 42816), (173, 42843), (182, 42876), (189, 42918), (190, 42924), (228, 43020),

Gene: Llij_56 Start: 39114, Stop: 39479, Start Num: 107

Candidate Starts for Llij_56:

(Start: 107 @39114 has 244 MA's), (128, 39147), (138, 39162), (140, 39165), (149, 39204), (150, 39207), (154, 39228), (163, 39261), (172, 39282), (173, 39288), (182, 39321), (189, 39363), (190,

39369), (228, 39465),

Gene: Lorde_60 Start: 38401, Stop: 38766, Start Num: 107

Candidate Starts for Lorde_60:

(Start: 107 @38401 has 244 MA's), (128, 38434), (138, 38449), (140, 38452), (149, 38491), (150, 38494), (154, 38515), (163, 38548), (172, 38569), (173, 38575), (182, 38608), (189, 38650), (190, 38656), (228, 38752),

Gene: Losacky_59 Start: 34314, Stop: 34751, Start Num: 122

Candidate Starts for Losacky_59:

(16, 33807), (21, 33837), (Start: 122 @34314 has 11 MA's), (154, 34410), (160, 34437), (180, 34485), (191, 34542), (192, 34548), (197, 34569), (223, 34635), (233, 34665), (240, 34701),

Gene: Lucia_59 Start: 39255, Stop: 39620, Start Num: 107

Candidate Starts for Lucia_59:

(Start: 107 @39255 has 244 MA's), (128, 39288), (138, 39303), (140, 39306), (149, 39345), (150, 39348), (154, 39369), (173, 39429), (182, 39462), (189, 39504), (190, 39510), (218, 39585),

Gene: Lucky2013_136 Start: 72791, Stop: 73144, Start Num: 110

Candidate Starts for Lucky2013_136:

(70, 72689), (Start: 110 @72791 has 35 MA's), (183, 72992), (189, 73034),

Gene: LunaBlu_62 Start: 40835, Stop: 41200, Start Num: 107

Candidate Starts for LunaBlu_62:

(Start: 107 @40835 has 244 MA's), (128, 40868), (138, 40883), (140, 40886), (149, 40925), (150, 40928), (154, 40949), (173, 41009), (182, 41042), (189, 41084), (190, 41090), (228, 41186),

Gene: LunaStella_56 Start: 38713, Stop: 39060, Start Num: 108

Candidate Starts for LunaStella_56:

(96, 38686), (103, 38704), (Start: 108 @38713 has 30 MA's), (121, 38725), (128, 38743), (135, 38752), (150, 38803), (154, 38824), (175, 38887), (182, 38908), (186, 38938),

Gene: LunaStella_57 Start: 39057, Stop: 39410, Start Num: 107

Candidate Starts for LunaStella_57:

(Start: 93 @39021 has 1 MA's), (Start: 107 @39057 has 244 MA's), (136, 39102), (140, 39108), (154, 39171), (157, 39180), (170, 39216), (176, 39240), (226, 39390),

Gene: LunaStella_59 Start: 39682, Stop: 40047, Start Num: 107

Candidate Starts for LunaStella_59:

(Start: 107 @39682 has 244 MA's), (128, 39715), (140, 39733), (149, 39772), (150, 39775), (154, 39796), (157, 39805), (163, 39829), (173, 39856), (182, 39889), (189, 39931), (190, 39937), (228, 40033),

Gene: Lysidious_52 Start: 36936, Stop: 37298, Start Num: 101

Candidate Starts for Lysidious_52:

(57, 36786), (58, 36792), (64, 36828), (76, 36867), (Start: 101 @36936 has 24 MA's), (155, 37065), (160, 37089),

Gene: MUWow_78 Start: 43655, Stop: 44044, Start Num: 114

Candidate Starts for MUWow_78:

(40, 43409), (Start: 114 @43655 has 50 MA's), (160, 43778), (173, 43811), (176, 43826), (187, 43880),

Gene: MaGuCo_43 Start: 33237, Stop: 33617, Start Num: 113

Candidate Starts for MaGuCo_43:

(82, 33171), (89, 33189), (Start: 113 @33237 has 40 MA's), (123, 33249), (139, 33282), (152, 33327), (154, 33342), (174, 33396),

Gene: MadMen_58 Start: 40038, Stop: 40403, Start Num: 107

Candidate Starts for MadMen_58:

(Start: 107 @40038 has 244 MA's), (128, 40071), (138, 40086), (140, 40089), (150, 40131), (154, 40152), (163, 40185), (173, 40212), (182, 40245), (189, 40287), (190, 40293), (228, 40389),

Gene: Madiba_58 Start: 39287, Stop: 39652, Start Num: 107

Candidate Starts for Madiba_58:

(Start: 107 @39287 has 244 MA's), (128, 39320), (138, 39335), (140, 39338), (150, 39380), (154, 39401), (163, 39434), (173, 39461), (182, 39494), (189, 39536), (190, 39542), (228, 39638),

Gene: Mahavrat_58 Start: 39663, Stop: 40028, Start Num: 107

Candidate Starts for Mahavrat_58:

(Start: 107 @39663 has 244 MA's), (128, 39696), (138, 39711), (140, 39714), (149, 39753), (150, 39756), (154, 39777), (173, 39837), (182, 39870), (189, 39912), (190, 39918), (228, 40014),

Gene: Malachai_49 Start: 37159, Stop: 37521, Start Num: 101

Candidate Starts for Malachai_49:

(76, 37090), (Start: 101 @37159 has 24 MA's), (148, 37258), (154, 37285), (155, 37288), (160, 37312), (225, 37507),

Gene: MalagasyRose_65 Start: 42032, Stop: 42385, Start Num: 120

Candidate Starts for MalagasyRose_65:

(63, 41891), (90, 41975), (Start: 120 @42032 has 1 MA's), (147, 42101), (150, 42113), (154, 42134), (179, 42209), (186, 42248), (189, 42260), (194, 42281), (205, 42323), (215, 42344),

Gene: Mandlovu_56 Start: 38273, Stop: 38638, Start Num: 107

Candidate Starts for Mandlovu_56:

(Start: 107 @38273 has 244 MA's), (128, 38306), (138, 38321), (140, 38324), (150, 38366), (154, 38387), (163, 38420), (172, 38441), (173, 38447), (189, 38522), (190, 38528), (228, 38624),

Gene: Mapleville_71 Start: 41369, Stop: 41770, Start Num: 114

Candidate Starts for Mapleville_71:

(Start: 114 @41369 has 50 MA's), (173, 41537), (187, 41606),

Gene: Maravista_61 Start: 41710, Stop: 42075, Start Num: 107

Candidate Starts for Maravista_61:

(Start: 107 @41710 has 244 MA's), (128, 41743), (138, 41758), (140, 41761), (149, 41800), (150, 41803), (154, 41824), (163, 41857), (173, 41884), (182, 41917), (189, 41959), (190, 41965), (228, 42061),

Gene: Mariel_60 Start: 34532, Stop: 34969, Start Num: 122

Candidate Starts for Mariel_60:

(Start: 101 @34499 has 24 MA's), (Start: 122 @34532 has 11 MA's), (154, 34628), (160, 34655), (180, 34703), (191, 34760), (192, 34766), (197, 34787), (223, 34853), (233, 34883), (240, 34919),

Gene: Mariokart_48 Start: 41216, Stop: 40896, Start Num: 112

Candidate Starts for Mariokart_48:

(Start: 85 @41234 has 14 MA's), (Start: 112 @41216 has 1 MA's), (153, 41138), (154, 41129), (187, 41012), (190, 41000),

Gene: Marker_62 Start: 40381, Stop: 40746, Start Num: 107

Candidate Starts for Marker_62:

(Start: 107 @40381 has 244 MA's), (128, 40414), (138, 40429), (140, 40432), (150, 40474), (154, 40495), (173, 40555), (182, 40588), (189, 40630), (190, 40636), (228, 40732),

Gene: Marleymoo_127 Start: 73278, Stop: 73631, Start Num: 110

Candidate Starts for Marleymoo_127:

(Start: 110 @73278 has 35 MA's), (183, 73479), (189, 73521),

Gene: Martik_60 Start: 40214, Stop: 40579, Start Num: 107

Candidate Starts for Martik_60:

(Start: 107 @40214 has 244 MA's), (128, 40247), (138, 40262), (140, 40265), (149, 40304), (150, 40307), (154, 40328), (163, 40361), (173, 40388), (182, 40421), (189, 40463), (190, 40469), (228, 40565),

Gene: Maruru_65 Start: 44640, Stop: 45053, Start Num: 102

Candidate Starts for Maruru_65:

(56, 44490), (Start: 102 @44640 has 2 MA's), (147, 44730), (152, 44748), (184, 44871), (188, 44895),

Gene: MaterMagnus_76 Start: 42682, Stop: 43083, Start Num: 114

Candidate Starts for MaterMagnus_76:

(40, 42436), (Start: 114 @42682 has 50 MA's), (173, 42850), (187, 42919),

Gene: Mattes_64 Start: 41780, Stop: 42145, Start Num: 107

Candidate Starts for Mattes_64:

(Start: 107 @41780 has 244 MA's), (128, 41813), (138, 41828), (140, 41831), (149, 41870), (150, 41873), (154, 41894), (163, 41927), (173, 41954), (182, 41987), (189, 42029), (190, 42035), (228, 42131),

Gene: Maureen_46 Start: 34755, Stop: 35162, Start Num: 113

Candidate Starts for Maureen_46:

(Start: 101 @34737 has 24 MA's), (Start: 113 @34755 has 40 MA's), (139, 34800), (152, 34845), (154, 34860),

Gene: Medindi_56 Start: 37651, Stop: 38016, Start Num: 107

Candidate Starts for Medindi_56:

(Start: 107 @37651 has 244 MA's), (128, 37684), (132, 37690), (140, 37702), (150, 37744), (157, 37774), (163, 37798), (165, 37801), (189, 37900), (190, 37906), (218, 37981), (220, 37984),

Gene: Melba_50 Start: 35408, Stop: 35770, Start Num: 101

Candidate Starts for Melba_50:

(58, 35264), (64, 35300), (76, 35339), (Start: 101 @35408 has 24 MA's), (155, 35537), (160, 35561),

Gene: Melissauren88_58 Start: 39794, Stop: 40159, Start Num: 107

Candidate Starts for Melissauren88_58:

(Start: 107 @39794 has 244 MA's), (128, 39827), (132, 39833), (140, 39845), (150, 39887), (157, 39917), (163, 39941), (165, 39944), (189, 40043), (190, 40049), (218, 40124),

Gene: Mellie_49 Start: 35048, Stop: 35410, Start Num: 100

Candidate Starts for Mellie_49:

(64, 34943), (Start: 100 @35048 has 1 MA's), (148, 35147), (154, 35174), (155, 35177), (160, 35201),

Gene: MenE_59 Start: 34205, Stop: 34642, Start Num: 122

Candidate Starts for MenE_59:

(8, 33605), (21, 33728), (Start: 122 @34205 has 11 MA's), (154, 34301), (160, 34328), (180, 34376), (191, 34433), (192, 34439), (197, 34460), (223, 34526), (233, 34556), (238, 34580), (240, 34592),

Gene: MiaZeal_143 Start: 73930, Stop: 74283, Start Num: 110

Candidate Starts for MiaZeal_143:

(70, 73828), (Start: 110 @73930 has 35 MA's), (183, 74131), (189, 74173),

Gene: Michkear_47 Start: 35385, Stop: 35783, Start Num: 113

Candidate Starts for Michkear_47:

(Start: 113 @35385 has 40 MA's), (152, 35475), (192, 35622), (237, 35757),

Gene: MidnightRain_81 Start: 43270, Stop: 43659, Start Num: 114

Candidate Starts for MidnightRain_81:

(Start: 114 @43270 has 50 MA's), (160, 43393), (173, 43426), (176, 43441), (187, 43495),

Gene: MilanaBonita_50 Start: 36387, Stop: 36752, Start Num: 107

Candidate Starts for MilanaBonita_50:

(Start: 107 @36387 has 244 MA's), (128, 36420), (132, 36426), (140, 36438), (150, 36480), (157, 36510), (163, 36534), (165, 36537), (189, 36636), (190, 36642), (218, 36717), (220, 36720), (222, 36723),

Gene: MilleniumForce_63 Start: 42482, Stop: 42847, Start Num: 107

Candidate Starts for MilleniumForce_63:

(Start: 107 @42482 has 244 MA's), (128, 42515), (132, 42521), (140, 42533), (157, 42605), (163, 42629), (165, 42632), (173, 42656), (189, 42731), (190, 42737), (218, 42812),

Gene: Minerva_144 Start: 76488, Stop: 76841, Start Num: 110

Candidate Starts for Minerva_144:

(Start: 110 @76488 has 35 MA's), (183, 76689), (189, 76731),

Gene: MinionDave_59 Start: 40561, Stop: 40926, Start Num: 107

Candidate Starts for MinionDave_59:

(Start: 107 @40561 has 244 MA's), (128, 40594), (138, 40609), (140, 40612), (149, 40651), (150, 40654), (154, 40675), (163, 40708), (173, 40735), (182, 40768), (189, 40810), (190, 40816), (228, 40912),

Gene: Minnie_63 Start: 41784, Stop: 42149, Start Num: 107

Candidate Starts for Minnie_63:

(Start: 107 @41784 has 244 MA's), (128, 41817), (135, 41826), (140, 41835), (150, 41877), (157, 41907), (163, 41931), (165, 41934), (189, 42033), (190, 42039), (218, 42114),

Gene: MintFen_51 Start: 35482, Stop: 35844, Start Num: 101

Candidate Starts for MintFen_51:

(58, 35338), (64, 35374), (76, 35413), (Start: 101 @35482 has 24 MA's), (155, 35611), (160, 35635),

Gene: MisterCuddles_58 Start: 40017, Stop: 40382, Start Num: 107

Candidate Starts for MisterCuddles_58:

(Start: 107 @40017 has 244 MA's), (128, 40050), (138, 40065), (140, 40068), (149, 40107), (150, 40110), (154, 40131), (173, 40191), (182, 40224), (189, 40266), (190, 40272), (228, 40368),

Gene: Modragons_64 Start: 42659, Stop: 43024, Start Num: 107

Candidate Starts for Modragons_64:

(Start: 107 @42659 has 244 MA's), (128, 42692), (138, 42707), (140, 42710), (149, 42749), (150, 42752), (154, 42773), (163, 42806), (173, 42833), (182, 42866), (189, 42908), (190, 42914), (228, 43010),

Gene: Moonbeam_58 Start: 39938, Stop: 40303, Start Num: 107

Candidate Starts for Moonbeam_58:

(Start: 107 @39938 has 244 MA's), (128, 39971), (140, 39989), (150, 40031), (157, 40061), (163, 40085), (165, 40088), (189, 40187), (218, 40268), (220, 40271), (222, 40274),

Gene: Moonflower_54 Start: 39482, Stop: 39844, Start Num: 101

Candidate Starts for Moonflower_54:

(Start: 101 @39482 has 24 MA's), (154, 39605),

Gene: Mova_61 Start: 39791, Stop: 40156, Start Num: 107

Candidate Starts for Mova_61:

(Start: 107 @39791 has 244 MA's), (128, 39824), (138, 39839), (140, 39842), (150, 39884), (154, 39905), (163, 39938), (173, 39965), (182, 39998), (189, 40040), (190, 40046), (228, 40142),

Gene: Mozy_69 Start: 42795, Stop: 43160, Start Num: 107

Candidate Starts for Mozy_69:

(Start: 107 @42795 has 244 MA's), (128, 42828), (138, 42843), (140, 42846), (149, 42885), (150, 42888), (154, 42909), (173, 42969), (182, 43002), (189, 43044), (190, 43050), (228, 43146),

Gene: Ms6_55 Start: 35525, Stop: 35890, Start Num: 107

Candidate Starts for Ms6_55:

(Start: 107 @35525 has 244 MA's), (128, 35558), (132, 35564), (140, 35576), (150, 35618), (157, 35648), (163, 35672), (165, 35675), (189, 35774), (190, 35780), (218, 35855),

Gene: Mudpuppy_42 Start: 33064, Stop: 33480, Start Num: 113

Candidate Starts for Mudpuppy_42:

(Start: 113 @33064 has 40 MA's), (143, 33118), (182, 33244), (192, 33298), (242, 33454), (244, 33472),

Gene: Mufasa8_70 Start: 44952, Stop: 45344, Start Num: 114

Candidate Starts for Mufasa8_70:

(65, 44829), (90, 44901), (Start: 114 @44952 has 50 MA's), (150, 45045),

Gene: MulchExplorer_60 Start: 41116, Stop: 41463, Start Num: 108

Candidate Starts for MulchExplorer_60:

(96, 41089), (103, 41107), (Start: 108 @41116 has 30 MA's), (128, 41146), (135, 41155), (142, 41173), (154, 41227), (163, 41254), (182, 41311), (186, 41341), (189, 41353),

Gene: MulchExplorer_63 Start: 42088, Stop: 42453, Start Num: 107

Candidate Starts for MulchExplorer_63:

(Start: 107 @42088 has 244 MA's), (128, 42121), (138, 42136), (140, 42139), (149, 42178), (150, 42181), (154, 42202), (163, 42235), (172, 42256), (173, 42262), (182, 42295), (189, 42337), (190, 42343), (228, 42439),

Gene: MulchExplorer_61 Start: 41460, Stop: 41813, Start Num: 107

Candidate Starts for MulchExplorer_61:

(Start: 93 @41424 has 1 MA's), (Start: 107 @41460 has 244 MA's), (Start: 127 @41490 has 1 MA's), (128, 41493), (136, 41505), (140, 41511), (154, 41574), (157, 41583), (158, 41589), (189, 41703),

(194, 41724), (216, 41781), (226, 41793),

Gene: MurphyJoseph_72 Start: 40710, Stop: 41099, Start Num: 114

Candidate Starts for MurphyJoseph_72:

(Start: 114 @40710 has 50 MA's), (160, 40833), (173, 40866), (176, 40881), (187, 40935), (214, 41025),

Gene: Music_44 Start: 34907, Stop: 35269, Start Num: 113

Candidate Starts for Music_44:

(Start: 113 @34907 has 40 MA's), (143, 34958), (182, 35090),

Gene: Mutaforma13_64 Start: 43121, Stop: 43486, Start Num: 107

Candidate Starts for Mutaforma13_64:

(Start: 107 @43121 has 244 MA's), (128, 43154), (138, 43169), (140, 43172), (149, 43211), (150, 43214), (154, 43235), (163, 43268), (173, 43295), (182, 43328), (189, 43370), (190, 43376), (228, 43472),

Gene: Mwanjiwa_66 Start: 40892, Stop: 41257, Start Num: 107

Candidate Starts for Mwanjiwa_66:

(Start: 107 @40892 has 244 MA's), (128, 40925), (138, 40940), (140, 40943), (149, 40982), (150, 40985), (154, 41006), (163, 41039), (172, 41060), (173, 41066), (182, 41099), (189, 41141), (190, 41147), (228, 41243),

Gene: Myrna_64 Start: 24516, Stop: 24944, Start Num: 85

Candidate Starts for Myrna_64:

(59, 24411), (Start: 85 @24516 has 14 MA's), (97, 24546), (149, 24660), (154, 24684), (160, 24711), (184, 24780), (194, 24828),

Gene: NCRodriguez_59 Start: 34274, Stop: 34711, Start Num: 122

Candidate Starts for NCRodriguez_59:

(Start: 122 @34274 has 11 MA's), (154, 34370), (160, 34397), (180, 34445), (191, 34502), (192, 34508), (197, 34529), (223, 34595), (233, 34625), (238, 34649), (240, 34661),

Gene: Nandito_53 Start: 37649, Stop: 38023, Start Num: 114

Candidate Starts for Nandito_53:

(72, 37544), (73, 37547), (Start: 114 @37649 has 50 MA's), (200, 37946),

Gene: NewHope4_61 Start: 40206, Stop: 40571, Start Num: 107

Candidate Starts for NewHope4_61:

(Start: 107 @40206 has 244 MA's), (128, 40239), (138, 40254), (140, 40257), (149, 40296), (150, 40299), (154, 40320), (173, 40380), (182, 40413), (189, 40455), (190, 40461), (228, 40557),

Gene: NewKitty_78 Start: 43640, Stop: 44041, Start Num: 114

Candidate Starts for NewKitty_78:

(Start: 114 @43640 has 50 MA's), (173, 43808), (181, 43835), (187, 43877),

Gene: Niblet_29 Start: 22015, Stop: 21665, Start Num: 105

Candidate Starts for Niblet_29:

(Start: 105 @22015 has 36 MA's), (152, 21916), (212, 21682),

Gene: Nichirin_67 Start: 44200, Stop: 44565, Start Num: 107

Candidate Starts for Nichirin_67:

(Start: 107 @44200 has 244 MA's), (128, 44233), (138, 44248), (140, 44251), (149, 44290), (150, 44293), (154, 44314), (163, 44347), (173, 44374), (182, 44407), (189, 44449), (190, 44455), (228, 44551),

Gene: NihilNomen_146 Start: 76776, Stop: 77129, Start Num: 110

Candidate Starts for NihilNomen_146:

(Start: 110 @76776 has 35 MA's), (183, 76977), (189, 77019),

Gene: Nitro_44 Start: 33699, Stop: 34070, Start Num: 113

Candidate Starts for Nitro_44:

(Start: 113 @33699 has 40 MA's), (152, 33786), (182, 33879), (192, 33933), (227, 34026),

Gene: Nivrat_56 Start: 39576, Stop: 39941, Start Num: 107

Candidate Starts for Nivrat_56:

(Start: 107 @39576 has 244 MA's), (128, 39609), (138, 39624), (140, 39627), (149, 39666), (150, 39669), (154, 39690), (163, 39723), (172, 39744), (173, 39750), (182, 39783), (189, 39825), (190, 39831), (228, 39927),

Gene: NormanBulbieJr_60 Start: 40204, Stop: 40569, Start Num: 107

Candidate Starts for NormanBulbieJr_60:

(Start: 107 @40204 has 244 MA's), (128, 40237), (138, 40252), (140, 40255), (149, 40294), (150, 40297), (154, 40318), (163, 40351), (173, 40378), (182, 40411), (189, 40453), (190, 40459), (228, 40555),

Gene: ObiToo_51 Start: 34185, Stop: 34577, Start Num: 113

Candidate Starts for ObiToo_51:

(Start: 113 @34185 has 40 MA's), (143, 34239), (182, 34365), (236, 34551), (241, 34569),

Gene: Ochi17_63 Start: 42266, Stop: 42631, Start Num: 107

Candidate Starts for Ochi17_63:

(Start: 107 @42266 has 244 MA's), (128, 42299), (138, 42314), (140, 42317), (149, 42356), (150, 42359), (154, 42380), (163, 42413), (173, 42440), (182, 42473), (189, 42515), (190, 42521), (228, 42617),

Gene: Odette_148 Start: 78919, Stop: 79272, Start Num: 110

Candidate Starts for Odette_148:

(Start: 110 @78919 has 35 MA's), (183, 79120), (189, 79162),

Gene: OfUltron_65 Start: 42815, Stop: 43180, Start Num: 107

Candidate Starts for OfUltron_65:

(Start: 107 @42815 has 244 MA's), (128, 42848), (138, 42863), (140, 42866), (149, 42905), (150, 42908), (154, 42929), (163, 42962), (173, 42989), (182, 43022), (189, 43064), (190, 43070), (228, 43166),

Gene: Ogopogo_65 Start: 40778, Stop: 41143, Start Num: 107

Candidate Starts for Ogopogo_65:

(Start: 107 @40778 has 244 MA's), (128, 40811), (132, 40817), (140, 40829), (150, 40871), (157, 40901), (163, 40925), (165, 40928), (189, 41027), (190, 41033), (218, 41108), (220, 41111), (222, 41114),

Gene: Okabe_55 Start: 36707, Stop: 37072, Start Num: 107

Candidate Starts for Okabe_55:

(Start: 107 @36707 has 244 MA's), (128, 36740), (135, 36749), (140, 36758), (150, 36800), (157, 36830), (163, 36854), (165, 36857), (189, 36956), (190, 36962), (218, 37037),

Gene: Oksu_64 Start: 43078, Stop: 43443, Start Num: 107

Candidate Starts for Oksu_64:

(Start: 107 @43078 has 244 MA's), (128, 43111), (138, 43126), (140, 43129), (149, 43168), (150, 43171), (154, 43192), (163, 43225), (173, 43252), (182, 43285), (189, 43327), (190, 43333), (228, 43429),

Gene: OldBen_57 Start: 40129, Stop: 40494, Start Num: 107

Candidate Starts for OldBen_57:

(Start: 107 @40129 has 244 MA's), (128, 40162), (138, 40177), (140, 40180), (150, 40222), (154, 40243), (173, 40303), (182, 40336), (189, 40378), (190, 40384), (228, 40480),

Gene: OlinDD_71 Start: 44929, Stop: 44579, Start Num: 118

Candidate Starts for OlinDD_71:

(62, 45070), (87, 44986), (Start: 118 @44929 has 9 MA's), (134, 44902), (139, 44893), (141, 44890), (155, 44827), (160, 44803), (206, 44626), (211, 44611), (223, 44590),

Gene: OlympiaSaint_62 Start: 40722, Stop: 41087, Start Num: 107

Candidate Starts for OlympiaSaint_62:

(Start: 107 @40722 has 244 MA's), (128, 40755), (138, 40770), (140, 40773), (149, 40812), (150, 40815), (154, 40836), (163, 40869), (173, 40896), (182, 40929), (189, 40971), (190, 40977), (228, 41073),

Gene: Oppalora_30 Start: 21208, Stop: 20867, Start Num: 105

Candidate Starts for Oppalora_30:

(Start: 105 @21208 has 36 MA's), (Start: 118 @21190 has 9 MA's),

Gene: Optimus_135 Start: 74056, Stop: 74409, Start Num: 110

Candidate Starts for Optimus_135:

(Start: 110 @74056 has 35 MA's), (183, 74257), (189, 74299),

Gene: Orcanus_30 Start: 22223, Stop: 21873, Start Num: 105

Candidate Starts for Orcanus_30:

(Start: 105 @22223 has 36 MA's), (152, 22124), (214, 21890),

Gene: OtsoOtso_33 Start: 21713, Stop: 21363, Start Num: 105

Candidate Starts for OtsoOtso_33:

(Start: 105 @21713 has 36 MA's), (214, 21380),

Gene: Ovechkin_58 Start: 40306, Stop: 40659, Start Num: 107

Candidate Starts for Ovechkin_58:

(Start: 93 @40270 has 1 MA's), (Start: 107 @40306 has 244 MA's), (Start: 127 @40336 has 1 MA's), (128, 40339), (136, 40351), (140, 40357), (154, 40420), (157, 40429), (158, 40435), (189, 40549), (194, 40570), (216, 40627), (226, 40639),

Gene: Ovechkin_57 Start: 39962, Stop: 40309, Start Num: 108

Candidate Starts for Ovechkin_57:

(96, 39935), (103, 39953), (Start: 108 @39962 has 30 MA's), (128, 39992), (135, 40001), (142, 40019), (154, 40073), (163, 40100), (182, 40157), (186, 40187), (189, 40199),

Gene: OwlsT2W_60 Start: 40441, Stop: 40806, Start Num: 107

Candidate Starts for OwlsT2W_60:

(Start: 107 @40441 has 244 MA's), (128, 40474), (138, 40489), (140, 40492), (149, 40531), (150, 40534), (154, 40555), (163, 40588), (173, 40615), (182, 40648), (189, 40690), (190, 40696), (228, 40792),

Gene: PHappiness_55 Start: 38486, Stop: 38851, Start Num: 107

Candidate Starts for PHappiness_55:

(Start: 107 @38486 has 244 MA's), (128, 38519), (138, 38534), (140, 38537), (150, 38579), (154, 38600), (163, 38633), (172, 38654), (173, 38660), (182, 38693), (189, 38735), (190, 38741), (228, 38837),

Gene: PMC_57 Start: 40831, Stop: 41196, Start Num: 107

Candidate Starts for PMC_57:

(Start: 107 @40831 has 244 MA's), (128, 40864), (138, 40879), (140, 40882), (149, 40921), (150, 40924), (154, 40945), (163, 40978), (173, 41005), (182, 41038), (189, 41080), (190, 41086), (228, 41182),

Gene: Pacc40_54 Start: 38560, Stop: 38925, Start Num: 107

Candidate Starts for Pacc40_54:

(Start: 107 @38560 has 244 MA's), (128, 38593), (138, 38608), (140, 38611), (150, 38653), (154, 38674), (163, 38707), (172, 38728), (173, 38734), (182, 38767), (189, 38809), (190, 38815), (228, 38911),

Gene: PatoPoderoso_57 Start: 39332, Stop: 39697, Start Num: 107

Candidate Starts for PatoPoderoso_57:

(Start: 107 @39332 has 244 MA's), (128, 39365), (138, 39380), (140, 39383), (149, 39422), (150, 39425), (154, 39446), (163, 39479), (173, 39506), (182, 39539), (189, 39581), (190, 39587), (228, 39683),

Gene: PatriciaStar_53 Start: 39194, Stop: 39559, Start Num: 101

Candidate Starts for PatriciaStar_53:

(Start: 101 @39194 has 24 MA's), (154, 39320),

Gene: Pelletreau_33 Start: 22425, Stop: 22072, Start Num: 105

Candidate Starts for Pelletreau_33:

(Start: 105 @22425 has 36 MA's), (152, 22326), (214, 22089),

Gene: Peridot_61 Start: 39669, Stop: 40034, Start Num: 107

Candidate Starts for Peridot_61:

(Start: 107 @39669 has 244 MA's), (128, 39702), (138, 39717), (140, 39720), (149, 39759), (150, 39762), (154, 39783), (163, 39816), (173, 39843), (182, 39876), (189, 39918), (190, 39924), (228, 40020),

Gene: Persistence_70 Start: 40343, Stop: 40708, Start Num: 114

Candidate Starts for Persistence_70:

(Start: 114 @40343 has 50 MA's), (141, 40376), (145, 40391), (154, 40439), (173, 40499), (186, 40562),

Gene: Phabba_70 Start: 24981, Stop: 25430, Start Num: 85

Candidate Starts for Phabba_70:

(Start: 85 @24981 has 14 MA's), (129, 25074), (149, 25125), (160, 25176), (177, 25236), (185, 25272), (194, 25314),

Gene: Phalconet_58 Start: 39065, Stop: 39430, Start Num: 107

Candidate Starts for Phalconet_58:

(Start: 107 @39065 has 244 MA's), (128, 39098), (132, 39104), (140, 39116), (145, 39131), (150, 39158), (157, 39188), (163, 39212), (165, 39215), (189, 39314), (190, 39320), (218, 39395),

Gene: Phanphagia_57 Start: 40656, Stop: 41021, Start Num: 107

Candidate Starts for Phanphagia_57:

(Start: 107 @40656 has 244 MA's), (128, 40689), (132, 40695), (140, 40707), (150, 40749), (157, 40779), (163, 40803), (165, 40806), (189, 40905), (190, 40911), (218, 40986),

Gene: Phasih_58 Start: 40630, Stop: 40995, Start Num: 107

Candidate Starts for Phasih_58:

(Start: 107 @40630 has 244 MA's), (128, 40663), (138, 40678), (140, 40681), (149, 40720), (150, 40723), (154, 40744), (173, 40804), (182, 40837), (189, 40879), (190, 40885), (214, 40954), (228, 40981),

Gene: Phatniss_58 Start: 40209, Stop: 40574, Start Num: 107

Candidate Starts for Phatniss_58:

(Start: 107 @40209 has 244 MA's), (128, 40242), (138, 40257), (140, 40260), (149, 40299), (150, 40302), (154, 40323), (163, 40356), (172, 40377), (173, 40383), (182, 40416), (189, 40458), (190, 40464), (228, 40560),

Gene: PhesterPhotato_60 Start: 39882, Stop: 40247, Start Num: 107

Candidate Starts for PhesterPhotato_60:

(Start: 107 @39882 has 244 MA's), (128, 39915), (132, 39921), (140, 39933), (145, 39948), (150, 39975), (157, 40005), (163, 40029), (165, 40032), (189, 40131), (190, 40137), (218, 40212),

Gene: PhillyJawn_58 Start: 33945, Stop: 34382, Start Num: 122

Candidate Starts for PhillyJawn_58:

(Start: 122 @33945 has 11 MA's), (154, 34041), (160, 34068), (180, 34116), (191, 34173), (192, 34179), (197, 34200), (223, 34266), (233, 34296), (238, 34320), (240, 34332),

Gene: Philus_63 Start: 41366, Stop: 41731, Start Num: 107

Candidate Starts for Philus_63:

(Start: 107 @41366 has 244 MA's), (128, 41399), (138, 41414), (140, 41417), (149, 41456), (150, 41459), (154, 41480), (163, 41513), (172, 41534), (173, 41540), (182, 41573), (189, 41615), (190, 41621), (228, 41717),

Gene: Phingu_60 Start: 34169, Stop: 34606, Start Num: 122

Candidate Starts for Phingu_60:

(7, 33533), (21, 33692), (Start: 122 @34169 has 11 MA's), (154, 34265), (160, 34292), (180, 34340), (191, 34397), (192, 34403), (197, 34424), (223, 34490), (233, 34520), (238, 34544), (240, 34556),

Gene: PhirstandPhine_35 Start: 21992, Stop: 21642, Start Num: 105

Candidate Starts for PhirstandPhine_35:

(50, 22175), (68, 22082), (Start: 105 @21992 has 36 MA's), (214, 21659),

Gene: Phives_50 Start: 35604, Stop: 36011, Start Num: 111

Candidate Starts for Phives_50:

(Start: 111 @35604 has 1 MA's), (182, 35787), (192, 35841), (227, 35934), (239, 35985), (243, 36003),

Gene: PhlipPhlop_60 Start: 41923, Stop: 42288, Start Num: 107

Candidate Starts for PhlipPhlop_60:

(Start: 107 @41923 has 244 MA's), (128, 41956), (138, 41971), (140, 41974), (149, 42013), (150, 42016), (154, 42037), (163, 42070), (173, 42097), (182, 42130), (189, 42172), (190, 42178), (228, 42274),

Gene: PhluffyCoco_31 Start: 21194, Stop: 20853, Start Num: 105
Candidate Starts for PhluffyCoco_31:
(Start: 105 @21194 has 36 MA's), (Start: 118 @21176 has 9 MA's),

Gene: Phoebus_144 Start: 78670, Stop: 79023, Start Num: 110
Candidate Starts for Phoebus_144:
(Start: 110 @78670 has 35 MA's), (183, 78871), (189, 78913),

Gene: Phonegingi_58 Start: 34265, Stop: 34702, Start Num: 122
Candidate Starts for Phonegingi_58:
(23, 33854), (Start: 122 @34265 has 11 MA's), (160, 34388), (180, 34436), (183, 34445), (191, 34493), (192, 34499), (197, 34520), (223, 34586), (233, 34616), (240, 34652),

Gene: Phrank15_80 Start: 42781, Stop: 43146, Start Num: 114
Candidate Starts for Phrank15_80:
(68, 42679), (Start: 114 @42781 has 50 MA's), (141, 42814), (150, 42856), (154, 42877), (173, 42937), (186, 43000),

Gene: Phrappuccino_165 Start: 110158, Stop: 110505, Start Num: 118
Candidate Starts for Phrappuccino_165:
(Start: 118 @110158 has 9 MA's), (135, 110191), (136, 110194), (140, 110200), (154, 110263), (208, 110455),

Gene: Pickles13_57 Start: 34624, Stop: 35061, Start Num: 122
Candidate Starts for Pickles13_57:
(104, 34597), (Start: 122 @34624 has 11 MA's), (152, 34705), (160, 34747), (180, 34795), (191, 34852), (192, 34858), (197, 34879), (223, 34945), (233, 34975), (240, 35011),

Gene: Pineda_34 Start: 22001, Stop: 21651, Start Num: 105
Candidate Starts for Pineda_34:
(13, 22508), (29, 22325), (50, 22184), (68, 22091), (Start: 105 @22001 has 36 MA's), (214, 21668),

Gene: Pioneer3_71 Start: 44751, Stop: 44401, Start Num: 118
Candidate Starts for Pioneer3_71:
(62, 44892), (87, 44808), (Start: 118 @44751 has 9 MA's), (134, 44724), (139, 44715), (141, 44712), (155, 44649), (160, 44625), (206, 44448), (211, 44433), (223, 44412),

Gene: Pippy_58 Start: 39072, Stop: 39437, Start Num: 107
Candidate Starts for Pippy_58:
(Start: 107 @39072 has 244 MA's), (128, 39105), (138, 39120), (140, 39123), (149, 39162), (150, 39165), (154, 39186), (163, 39219), (173, 39246), (182, 39279), (189, 39321), (190, 39327), (228, 39423),

Gene: Pixelle_47 Start: 35172, Stop: 35567, Start Num: 113
Candidate Starts for Pixelle_47:
(Start: 113 @35172 has 40 MA's), (143, 35226), (182, 35352),

Gene: Platte_71 Start: 44704, Stop: 44354, Start Num: 118
Candidate Starts for Platte_71:

(87, 44761), (Start: 118 @44704 has 9 MA's), (134, 44677), (139, 44668), (141, 44665), (155, 44602), (160, 44578), (206, 44401), (211, 44386), (223, 44365),

Gene: Plumbus_62 Start: 40530, Stop: 40895, Start Num: 107

Candidate Starts for Plumbus_62:

(Start: 107 @40530 has 244 MA's), (128, 40563), (138, 40578), (140, 40581), (150, 40623), (154, 40644), (163, 40677), (172, 40698), (173, 40704), (182, 40737), (189, 40779), (190, 40785), (228, 40881),

Gene: Poenanya_60 Start: 41387, Stop: 41752, Start Num: 107

Candidate Starts for Poenanya_60:

(Start: 107 @41387 has 244 MA's), (128, 41420), (138, 41435), (140, 41438), (150, 41480), (154, 41501), (163, 41534), (172, 41555), (173, 41561), (182, 41594), (189, 41636), (190, 41642), (228, 41738),

Gene: Polka_32 Start: 21713, Stop: 21363, Start Num: 105

Candidate Starts for Polka_32:

(Start: 105 @21713 has 36 MA's), (214, 21380),

Gene: Polka14_58 Start: 39583, Stop: 39948, Start Num: 107

Candidate Starts for Polka14_58:

(Start: 107 @39583 has 244 MA's), (128, 39616), (138, 39631), (140, 39634), (149, 39673), (150, 39676), (154, 39697), (163, 39730), (173, 39757), (182, 39790), (189, 39832), (190, 39838), (228, 39934),

Gene: Pollywog_61 Start: 41040, Stop: 41405, Start Num: 107

Candidate Starts for Pollywog_61:

(Start: 107 @41040 has 244 MA's), (128, 41073), (138, 41088), (140, 41091), (149, 41130), (150, 41133), (154, 41154), (163, 41187), (173, 41214), (182, 41247), (189, 41289), (190, 41295), (228, 41391),

Gene: PopTart_54 Start: 38690, Stop: 39055, Start Num: 107

Candidate Starts for PopTart_54:

(Start: 107 @38690 has 244 MA's), (128, 38723), (132, 38729), (140, 38741), (150, 38783), (157, 38813), (163, 38837), (165, 38840), (189, 38939), (190, 38945), (218, 39020),

Gene: Porcelain_140 Start: 73737, Stop: 74090, Start Num: 110

Candidate Starts for Porcelain_140:

(70, 73635), (Start: 110 @73737 has 35 MA's), (183, 73938), (189, 73980),

Gene: Pound_136 Start: 76489, Stop: 76842, Start Num: 110

Candidate Starts for Pound_136:

(67, 76375), (70, 76387), (Start: 110 @76489 has 35 MA's), (183, 76690), (189, 76732),

Gene: Powerpuff_48 Start: 34514, Stop: 34927, Start Num: 113

Candidate Starts for Powerpuff_48:

(Start: 113 @34514 has 40 MA's), (143, 34568), (182, 34694), (192, 34748), (242, 34901), (244, 34919),

Gene: Prairie_53 Start: 36909, Stop: 37310, Start Num: 114

Candidate Starts for Prairie_53:

(72, 36807), (73, 36810), (Start: 114 @36909 has 50 MA's), (195, 37170),

Gene: Priscilla_60 Start: 40303, Stop: 40668, Start Num: 107

Candidate Starts for Priscilla_60:

(Start: 107 @40303 has 244 MA's), (128, 40336), (138, 40351), (140, 40354), (149, 40393), (150, 40396), (154, 40417), (163, 40450), (173, 40477), (182, 40510), (189, 40552), (190, 40558), (228, 40654),

Gene: Pumpkins_45 Start: 33566, Stop: 33961, Start Num: 113

Candidate Starts for Pumpkins_45:

(Start: 113 @33566 has 40 MA's), (143, 33620), (182, 33749),

Gene: Pupper_45 Start: 15769, Stop: 16101, Start Num: 114

Candidate Starts for Pupper_45:

(41, 15514), (98, 15742), (Start: 114 @15769 has 50 MA's), (145, 15823), (146, 15832), (154, 15871), (182, 15955), (202, 16045),

Gene: QuickMath_62 Start: 42312, Stop: 42677, Start Num: 107

Candidate Starts for QuickMath_62:

(Start: 107 @42312 has 244 MA's), (128, 42345), (138, 42360), (140, 42363), (149, 42402), (150, 42405), (154, 42426), (163, 42459), (172, 42480), (173, 42486), (182, 42519), (189, 42561), (190, 42567), (228, 42663),

Gene: QuickMath_60 Start: 41684, Stop: 42037, Start Num: 107

Candidate Starts for QuickMath_60:

(Start: 93 @41648 has 1 MA's), (Start: 107 @41684 has 244 MA's), (Start: 127 @41714 has 1 MA's), (128, 41717), (136, 41729), (140, 41735), (154, 41798), (157, 41807), (158, 41813), (189, 41927), (194, 41948), (216, 42005), (226, 42017),

Gene: QuickMath_59 Start: 41340, Stop: 41687, Start Num: 108

Candidate Starts for QuickMath_59:

(96, 41313), (103, 41331), (Start: 108 @41340 has 30 MA's), (128, 41370), (135, 41379), (142, 41397), (154, 41451), (163, 41478), (182, 41535), (186, 41565), (189, 41577),

Gene: Quico_68 Start: 42216, Stop: 42581, Start Num: 107

Candidate Starts for Quico_68:

(Start: 107 @42216 has 244 MA's), (128, 42249), (135, 42258), (140, 42267), (150, 42309), (157, 42339), (163, 42363), (165, 42366), (189, 42465), (190, 42471), (218, 42546),

Gene: RadFad_81 Start: 42975, Stop: 43364, Start Num: 114

Candidate Starts for RadFad_81:

(1, 41406), (2, 41541), (3, 41652), (4, 41688), (5, 41751), (11, 42429), (31, 42645), (Start: 114 @42975 has 50 MA's), (160, 43098), (173, 43131), (176, 43146), (187, 43200), (214, 43290),

Gene: Radiance_59 Start: 40325, Stop: 40690, Start Num: 107

Candidate Starts for Radiance_59:

(Start: 107 @40325 has 244 MA's), (128, 40358), (140, 40376), (150, 40418), (154, 40439), (163, 40472), (172, 40493), (173, 40499), (182, 40532), (189, 40574), (190, 40580), (228, 40676),

Gene: Ramsey_59 Start: 40638, Stop: 41003, Start Num: 107

Candidate Starts for Ramsey_59:

(Start: 107 @40638 has 244 MA's), (128, 40671), (132, 40677), (140, 40689), (157, 40761), (163, 40785), (165, 40788), (173, 40812), (189, 40887), (190, 40893), (218, 40968),

Gene: Raphaella_77 Start: 41746, Stop: 42147, Start Num: 114

Candidate Starts for Raphaella_77:

(Start: 114 @41746 has 50 MA's), (173, 41914), (187, 41983),

Gene: Raqqa_74 Start: 42460, Stop: 42840, Start Num: 127

Candidate Starts for Raqqa_74:

(Start: 114 @42436 has 50 MA's), (Start: 127 @42460 has 1 MA's), (139, 42481), (160, 42574), (173, 42607), (194, 42703),

Gene: Rattail_31 Start: 21290, Stop: 20949, Start Num: 105

Candidate Starts for Rattail_31:

(Start: 105 @21290 has 36 MA's), (Start: 118 @21272 has 9 MA's),

Gene: RayTheFireFly_61 Start: 39688, Stop: 40050, Start Num: 101

Candidate Starts for RayTheFireFly_61:

(Start: 101 @39688 has 24 MA's), (154, 39811), (176, 39877),

Gene: RedFox_31 Start: 21207, Stop: 20866, Start Num: 105

Candidate Starts for RedFox_31:

(Start: 105 @21207 has 36 MA's), (Start: 118 @21189 has 9 MA's),

Gene: RedWattleHog_91 Start: 82425, Stop: 82775, Start Num: 110

Candidate Starts for RedWattleHog_91:

(Start: 110 @82425 has 35 MA's), (135, 82461), (167, 82572), (176, 82599), (182, 82617), (202, 82707),

Gene: Redno2_139 Start: 74778, Stop: 75131, Start Num: 110

Candidate Starts for Redno2_139:

(70, 74676), (Start: 110 @74778 has 35 MA's), (183, 74979), (189, 75021),

Gene: Renaud18_63 Start: 40118, Stop: 40465, Start Num: 108

Candidate Starts for Renaud18_63:

(96, 40091), (103, 40109), (Start: 108 @40118 has 30 MA's), (121, 40130), (128, 40148), (135, 40157), (154, 40229), (175, 40292), (182, 40313), (186, 40343),

Gene: Renaud18_64 Start: 40462, Stop: 40815, Start Num: 107

Candidate Starts for Renaud18_64:

(Start: 93 @40426 has 1 MA's), (Start: 107 @40462 has 244 MA's), (136, 40507), (140, 40513), (154, 40576), (157, 40585), (170, 40621), (176, 40645), (226, 40795),

Gene: Renaud18_66 Start: 41090, Stop: 41452, Start Num: 107

Candidate Starts for Renaud18_66:

(Start: 107 @41090 has 244 MA's), (128, 41123), (138, 41138), (140, 41141), (149, 41180), (150, 41183), (154, 41204), (172, 41255), (173, 41261), (190, 41342), (228, 41438),

Gene: Renna12_30 Start: 21228, Stop: 20887, Start Num: 105

Candidate Starts for Renna12_30:

(Start: 105 @21228 has 36 MA's), (125, 21207),

Gene: Rialto_66 Start: 43107, Stop: 43472, Start Num: 107

Candidate Starts for Rialto_66:

(Start: 107 @43107 has 244 MA's), (128, 43140), (138, 43155), (140, 43158), (149, 43197), (150, 43200), (154, 43221), (163, 43254), (172, 43275), (173, 43281), (182, 43314), (189, 43356), (190, 43362), (228, 43458),

Gene: Richie_79 Start: 43614, Stop: 44015, Start Num: 114

Candidate Starts for Richie_79:

(40, 43368), (Start: 114 @43614 has 50 MA's), (173, 43782), (187, 43851),

Gene: Rita_61 Start: 38934, Stop: 39299, Start Num: 107

Candidate Starts for Rita_61:

(Start: 107 @38934 has 244 MA's), (128, 38967), (138, 38982), (140, 38985), (149, 39024), (150, 39027), (154, 39048), (163, 39081), (173, 39108), (182, 39141), (189, 39183), (190, 39189), (228, 39285),

Gene: RitaG_55 Start: 38831, Stop: 39196, Start Num: 107

Candidate Starts for RitaG_55:

(Start: 107 @38831 has 244 MA's), (128, 38864), (138, 38879), (140, 38882), (150, 38924), (154, 38945), (163, 38978), (172, 38999), (173, 39005), (182, 39038), (189, 39080), (190, 39086), (228, 39182),

Gene: Rockne_61 Start: 40843, Stop: 41208, Start Num: 107

Candidate Starts for Rockne_61:

(Start: 107 @40843 has 244 MA's), (128, 40876), (138, 40891), (140, 40894), (149, 40933), (150, 40936), (154, 40957), (163, 40990), (173, 41017), (182, 41050), (189, 41092), (190, 41098), (228, 41194),

Gene: RockyHorror_61 Start: 39889, Stop: 40254, Start Num: 107

Candidate Starts for RockyHorror_61:

(Start: 107 @39889 has 244 MA's), (128, 39922), (140, 39940), (149, 39979), (150, 39982), (154, 40003), (163, 40036), (173, 40063), (182, 40096), (189, 40138), (190, 40144), (228, 40240),

Gene: Royals2015_62 Start: 39826, Stop: 40179, Start Num: 107

Candidate Starts for Royals2015_62:

(Start: 93 @39790 has 1 MA's), (Start: 107 @39826 has 244 MA's), (Start: 127 @39856 has 1 MA's), (128, 39859), (136, 39871), (140, 39877), (154, 39940), (157, 39949), (158, 39955), (189, 40069), (194, 40090), (216, 40147), (226, 40159),

Gene: Royals2015_61 Start: 39482, Stop: 39829, Start Num: 108

Candidate Starts for Royals2015_61:

(96, 39455), (103, 39473), (Start: 108 @39482 has 30 MA's), (128, 39512), (135, 39521), (142, 39539), (154, 39593), (163, 39620), (182, 39677), (186, 39707), (189, 39719),

Gene: Ruby_56 Start: 40018, Stop: 40383, Start Num: 107

Candidate Starts for Ruby_56:

(Start: 107 @40018 has 244 MA's), (128, 40051), (138, 40066), (140, 40069), (149, 40108), (150, 40111), (154, 40132), (173, 40192), (182, 40225), (189, 40267), (190, 40273), (228, 40369),

Gene: Ruchi_30 Start: 22625, Stop: 22281, Start Num: 105

Candidate Starts for Ruchi_30:

(Start: 105 @22625 has 36 MA's), (Start: 127 @22604 has 1 MA's), (141, 22580), (152, 22532), (214, 22298),

Gene: SCentae_45 Start: 15768, Stop: 16100, Start Num: 114

Candidate Starts for SCentae_45:

(41, 15513), (98, 15741), (Start: 114 @15768 has 50 MA's), (145, 15822), (146, 15831), (154, 15870), (182, 15954), (202, 16044),

Gene: SG4_57 Start: 39721, Stop: 40086, Start Num: 107

Candidate Starts for SG4_57:

(Start: 107 @39721 has 244 MA's), (128, 39754), (138, 39769), (140, 39772), (149, 39811), (150, 39814), (154, 39835), (163, 39868), (173, 39895), (182, 39928), (189, 39970), (190, 39976), (228, 40072),

Gene: Saal_62 Start: 41474, Stop: 41839, Start Num: 107

Candidate Starts for Saal_62:

(Start: 107 @41474 has 244 MA's), (128, 41507), (138, 41522), (140, 41525), (149, 41564), (150, 41567), (154, 41588), (163, 41621), (173, 41648), (182, 41681), (189, 41723), (190, 41729), (228, 41825),

Gene: Sabbb_64 Start: 41162, Stop: 41527, Start Num: 107

Candidate Starts for Sabbb_64:

(Start: 107 @41162 has 244 MA's), (128, 41195), (138, 41210), (140, 41213), (149, 41252), (150, 41255), (154, 41276), (173, 41336), (182, 41369), (189, 41411), (190, 41417), (214, 41486), (228, 41513),

Gene: Sakai_73 Start: 41641, Stop: 42042, Start Num: 114

Candidate Starts for Sakai_73:

(40, 41395), (Start: 114 @41641 has 50 MA's), (173, 41809), (187, 41878),

Gene: Samba_50 Start: 37695, Stop: 38057, Start Num: 101

Candidate Starts for Samba_50:

(58, 37551), (64, 37587), (76, 37626), (Start: 101 @37695 has 24 MA's), (155, 37824), (160, 37848), (225, 38043),

Gene: Sandalphon_61 Start: 40762, Stop: 41127, Start Num: 107

Candidate Starts for Sandalphon_61:

(Start: 107 @40762 has 244 MA's), (128, 40795), (135, 40804), (140, 40813), (150, 40855), (157, 40885), (163, 40909), (165, 40912), (189, 41011), (190, 41017), (218, 41092),

Gene: Sarma624_56 Start: 35652, Stop: 35999, Start Num: 108

Candidate Starts for Sarma624_56:

(96, 35625), (103, 35643), (Start: 108 @35652 has 30 MA's), (128, 35682), (135, 35691), (142, 35709), (154, 35763), (163, 35790), (182, 35847), (186, 35877), (189, 35889),

Gene: Sarma624_57 Start: 35996, Stop: 36349, Start Num: 107

Candidate Starts for Sarma624_57:

(Start: 93 @35960 has 1 MA's), (Start: 107 @35996 has 244 MA's), (Start: 127 @36026 has 1 MA's), (128, 36029), (136, 36041), (140, 36047), (154, 36110), (157, 36119), (158, 36125), (189, 36239), (194, 36260), (216, 36317), (226, 36329),

Gene: Sashimi_74 Start: 42326, Stop: 42715, Start Num: 114

Candidate Starts for Sashimi_74:

(Start: 114 @42326 has 50 MA's), (160, 42449), (187, 42551), (214, 42641),

Gene: Sassafras_58 Start: 39803, Stop: 40168, Start Num: 107

Candidate Starts for Sassafras_58:

(Start: 107 @39803 has 244 MA's), (128, 39836), (138, 39851), (140, 39854), (149, 39893), (150, 39896), (154, 39917), (163, 39950), (173, 39977), (182, 40010), (189, 40052), (190, 40058), (228, 40154),

Gene: SassyB_54 Start: 38690, Stop: 39055, Start Num: 107

Candidate Starts for SassyB_54:

(Start: 107 @38690 has 244 MA's), (128, 38723), (132, 38729), (140, 38741), (150, 38783), (157, 38813), (163, 38837), (165, 38840), (189, 38939), (190, 38945), (218, 39020),

Gene: Schaffner_46 Start: 33571, Stop: 33933, Start Num: 113

Candidate Starts for Schaffner_46:

(Start: 113 @33571 has 40 MA's), (143, 33625), (182, 33751), (192, 33805),

Gene: Schatzie_140 Start: 77338, Stop: 77691, Start Num: 110

Candidate Starts for Schatzie_140:

(Start: 110 @77338 has 35 MA's), (183, 77539), (189, 77581),

Gene: Schism_53 Start: 34682, Stop: 35089, Start Num: 93

Candidate Starts for Schism_53:

(Start: 93 @34682 has 1 MA's), (Start: 106 @34715 has 1 MA's), (Start: 114 @34727 has 50 MA's), (Start: 117 @34730 has 1 MA's), (130, 34763), (141, 34781), (152, 34829), (192, 34988),

Gene: ScoobyDoobyDoo_55 Start: 19568, Stop: 19993, Start Num: 85

Candidate Starts for ScoobyDoobyDoo_55:

(Start: 85 @19568 has 14 MA's), (149, 19712), (160, 19763), (166, 19766), (194, 19880), (196, 19889), (203, 19913),

Gene: ScoobySnack_54 Start: 33919, Stop: 34356, Start Num: 122

Candidate Starts for ScoobySnack_54:

(22, 33487), (Start: 122 @33919 has 11 MA's), (160, 34042), (170, 34057), (180, 34090), (191, 34147), (192, 34153), (223, 34240), (232, 34267), (233, 34270), (240, 34306),

Gene: Scottish_58 Start: 39849, Stop: 40214, Start Num: 107

Candidate Starts for Scottish_58:

(Start: 107 @39849 has 244 MA's), (128, 39882), (138, 39897), (140, 39900), (150, 39942), (154, 39963), (163, 39996), (173, 40023), (182, 40056), (189, 40098), (190, 40104), (228, 40200),

Gene: Seabastian_65 Start: 42816, Stop: 43181, Start Num: 107

Candidate Starts for Seabastian_65:

(Start: 107 @42816 has 244 MA's), (128, 42849), (138, 42864), (140, 42867), (149, 42906), (150, 42909), (154, 42930), (163, 42963), (173, 42990), (182, 43023), (189, 43065), (190, 43071), (228, 43167),

Gene: Seagreen_58 Start: 39051, Stop: 39398, Start Num: 108

Candidate Starts for Seagreen_58:

(96, 39024), (103, 39042), (Start: 108 @39051 has 30 MA's), (128, 39081), (135, 39090), (142, 39108), (154, 39162), (163, 39189), (182, 39246), (186, 39276), (189, 39288),

Gene: Seagreen_59 Start: 39395, Stop: 39748, Start Num: 107

Candidate Starts for Seagreen_59:

(Start: 93 @39359 has 1 MA's), (Start: 107 @39395 has 244 MA's), (Start: 127 @39425 has 1 MA's), (128, 39428), (136, 39440), (140, 39446), (154, 39509), (157, 39518), (158, 39524), (189, 39638), (194, 39659), (216, 39716), (226, 39728),

Gene: Seahorse_84 Start: 47304, Stop: 47699, Start Num: 114

Candidate Starts for Seahorse_84:

(Start: 114 @47304 has 50 MA's), (139, 47349), (173, 47475), (194, 47571), (230, 47673),

Gene: Settecandela_165 Start: 110158, Stop: 110505, Start Num: 118

Candidate Starts for Settecandela_165:

(Start: 118 @110158 has 9 MA's), (135, 110191), (136, 110194), (140, 110200), (154, 110263), (208, 110455),

Gene: Shatter_48 Start: 41091, Stop: 40741, Start Num: 85

Candidate Starts for Shatter_48:

(Start: 85 @41091 has 14 MA's), (135, 41046), (140, 41037), (145, 41022), (154, 40974), (182, 40893),

Gene: Shauna1_58 Start: 40565, Stop: 40930, Start Num: 107

Candidate Starts for Shauna1_58:

(Start: 107 @40565 has 244 MA's), (128, 40598), (135, 40607), (140, 40616), (163, 40712), (165, 40715), (173, 40739), (189, 40814), (190, 40820), (218, 40895),

Gene: ShiLan_59 Start: 40250, Stop: 40615, Start Num: 107

Candidate Starts for ShiLan_59:

(Start: 107 @40250 has 244 MA's), (128, 40283), (138, 40298), (140, 40301), (149, 40340), (150, 40343), (154, 40364), (163, 40397), (173, 40424), (182, 40457), (189, 40499), (190, 40505), (228, 40601),

Gene: ShowerHandel_63 Start: 40214, Stop: 40579, Start Num: 107

Candidate Starts for ShowerHandel_63:

(Start: 107 @40214 has 244 MA's), (128, 40247), (138, 40262), (140, 40265), (149, 40304), (150, 40307), (154, 40328), (163, 40361), (173, 40388), (182, 40421), (189, 40463), (190, 40469), (228, 40565),

Gene: ShroomBoi_62 Start: 41174, Stop: 41539, Start Num: 107

Candidate Starts for ShroomBoi_62:

(Start: 107 @41174 has 244 MA's), (128, 41207), (138, 41222), (140, 41225), (150, 41267), (154, 41288), (163, 41321), (173, 41348), (182, 41381), (189, 41423), (190, 41429), (228, 41525),

Gene: Shukran_73 Start: 41223, Stop: 41588, Start Num: 114

Candidate Starts for Shukran_73:

(48, 41013), (69, 41118), (Start: 106 @41211 has 1 MA's), (Start: 114 @41223 has 50 MA's), (141, 41256), (154, 41319), (173, 41379),

Gene: SiSi_58 Start: 39623, Stop: 39988, Start Num: 107

Candidate Starts for SiSi_58:

(Start: 107 @39623 has 244 MA's), (128, 39656), (138, 39671), (140, 39674), (149, 39713), (150, 39716), (154, 39737), (163, 39770), (173, 39797), (182, 39830), (189, 39872), (190, 39878), (228, 39974),

Gene: SilverChicken_70 Start: 40345, Stop: 40710, Start Num: 107

Candidate Starts for SilverChicken_70:

(Start: 107 @40345 has 244 MA's), (128, 40378), (132, 40384), (140, 40396), (150, 40438), (157, 40468), (163, 40492), (165, 40495), (189, 40594), (190, 40600), (218, 40675),

Gene: Simpson_48 Start: 33419, Stop: 33832, Start Num: 113

Candidate Starts for Simpson_48:

(28, 33089), (Start: 113 @33419 has 40 MA's), (143, 33473), (182, 33599), (192, 33653), (242, 33806), (244, 33824),

Gene: SimranZ1_60 Start: 40397, Stop: 40762, Start Num: 107

Candidate Starts for SimranZ1_60:

(Start: 107 @40397 has 244 MA's), (128, 40430), (138, 40445), (140, 40448), (149, 40487), (150, 40490), (154, 40511), (173, 40571), (182, 40604), (189, 40646), (190, 40652), (214, 40721), (228, 40748),

Gene: Sisko_47 Start: 41439, Stop: 41065, Start Num: 85

Candidate Starts for Sisko_47:

(Start: 85 @41439 has 14 MA's), (135, 41379), (153, 41316), (154, 41307), (187, 41187),

Gene: Slim_61 Start: 41010, Stop: 41375, Start Num: 107

Candidate Starts for Slim_61:

(Start: 107 @41010 has 244 MA's), (128, 41043), (138, 41058), (140, 41061), (149, 41100), (150, 41103), (154, 41124), (163, 41157), (173, 41184), (182, 41217), (189, 41259), (190, 41265), (228, 41361),

Gene: SonDevVon_83 Start: 42690, Stop: 43091, Start Num: 114

Candidate Starts for SonDevVon_83:

(40, 42444), (Start: 114 @42690 has 50 MA's), (173, 42858), (187, 42927),

Gene: Sonali_65 Start: 45108, Stop: 45521, Start Num: 102

Candidate Starts for Sonali_65:

(56, 44958), (Start: 102 @45108 has 2 MA's), (147, 45198), (152, 45216), (184, 45339), (188, 45363),

Gene: Soul22_66 Start: 41808, Stop: 42173, Start Num: 107

Candidate Starts for Soul22_66:

(Start: 107 @41808 has 244 MA's), (128, 41841), (138, 41856), (140, 41859), (149, 41898), (150, 41901), (154, 41922), (163, 41955), (173, 41982), (182, 42015), (189, 42057), (190, 42063), (228, 42159),

Gene: Sour_51 Start: 44771, Stop: 44406, Start Num: 84

Candidate Starts for Sour_51:

(79, 44777), (81, 44774), (Start: 84 @44771 has 1 MA's), (86, 44765), (Start: 112 @44750 has 1 MA's), (140, 44717), (145, 44702), (154, 44654), (159, 44633), (198, 44489), (200, 44483), (204, 44471), (219, 44444), (231, 44411),

Gene: Sparkdehlily_67 Start: 41576, Stop: 41941, Start Num: 107

Candidate Starts for Sparkdehlily_67:

(Start: 107 @41576 has 244 MA's), (128, 41609), (132, 41615), (140, 41627), (150, 41669), (157, 41699), (163, 41723), (165, 41726), (189, 41825), (190, 41831), (218, 41906),

Gene: Spartacus_62 Start: 40884, Stop: 41249, Start Num: 107

Candidate Starts for Spartacus_62:

(Start: 107 @40884 has 244 MA's), (128, 40917), (138, 40932), (140, 40935), (149, 40974), (150, 40977), (154, 40998), (173, 41058), (182, 41091), (189, 41133), (190, 41139), (228, 41235),

Gene: SpicyFrank_78 Start: 42043, Stop: 42432, Start Num: 114

Candidate Starts for SpicyFrank_78:

(Start: 114 @42043 has 50 MA's), (160, 42166), (173, 42199), (176, 42214), (187, 42268),

Gene: Spikelee_67 Start: 42504, Stop: 42869, Start Num: 107

Candidate Starts for Spikelee_67:

(Start: 107 @42504 has 244 MA's), (128, 42537), (138, 42552), (140, 42555), (150, 42597), (154, 42618), (173, 42678), (182, 42711), (189, 42753), (190, 42759), (228, 42855),

Gene: Spoonbill_57 Start: 38791, Stop: 39156, Start Num: 107

Candidate Starts for Spoonbill_57:

(Start: 107 @38791 has 244 MA's), (128, 38824), (138, 38839), (140, 38842), (150, 38884), (154, 38905), (163, 38938), (172, 38959), (173, 38965), (182, 38998), (189, 39040), (190, 39046), (228, 39142),

Gene: Sporco_78 Start: 43426, Stop: 43827, Start Num: 114

Candidate Starts for Sporco_78:

(Start: 114 @43426 has 50 MA's), (173, 43594), (187, 43663),

Gene: Squiddly_84 Start: 50073, Stop: 50414, Start Num: 106

Candidate Starts for Squiddly_84:

(Start: 101 @50064 has 24 MA's), (Start: 106 @50073 has 1 MA's), (215, 50388),

Gene: Squirty_62 Start: 41343, Stop: 41708, Start Num: 107

Candidate Starts for Squirty_62:

(Start: 107 @41343 has 244 MA's), (128, 41376), (135, 41385), (140, 41394), (163, 41490), (165, 41493), (173, 41517), (189, 41592), (190, 41598), (218, 41673),

Gene: StAnnes_58 Start: 40743, Stop: 41108, Start Num: 107

Candidate Starts for StAnnes_58:

(Start: 107 @40743 has 244 MA's), (128, 40776), (132, 40782), (140, 40794), (150, 40836), (157, 40866), (163, 40890), (165, 40893), (189, 40992), (190, 40998), (218, 41073), (220, 41076),

Gene: StAugustine_140 Start: 84499, Stop: 84137, Start Num: 113

Candidate Starts for StAugustine_140:

(Start: 102 @84514 has 2 MA's), (Start: 113 @84499 has 40 MA's), (119, 84490), (126, 84475), (147, 84418), (149, 84409), (201, 84211),

Gene: Starcevich_58 Start: 39755, Stop: 40108, Start Num: 107

Candidate Starts for Starcevich_58:

(Start: 93 @39719 has 1 MA's), (Start: 107 @39755 has 244 MA's), (Start: 127 @39785 has 1 MA's), (128, 39788), (136, 39800), (140, 39806), (154, 39869), (157, 39878), (158, 39884), (189, 39998), (194, 40019), (216, 40076), (226, 40088),

Gene: Starcevich_57 Start: 39411, Stop: 39758, Start Num: 108

Candidate Starts for Starcevich_57:

(96, 39384), (103, 39402), (Start: 108 @39411 has 30 MA's), (128, 39441), (135, 39450), (142, 39468), (154, 39522), (163, 39549), (182, 39606), (186, 39636), (189, 39648),

Gene: Starcevich_60 Start: 40380, Stop: 40745, Start Num: 107

Candidate Starts for Starcevich_60:

(Start: 107 @40380 has 244 MA's), (128, 40413), (138, 40428), (140, 40431), (149, 40470), (150, 40473), (154, 40494), (163, 40527), (173, 40554), (182, 40587), (189, 40629), (190, 40635), (228, 40731),

Gene: Stormageddon_88 Start: 82406, Stop: 82756, Start Num: 110

Candidate Starts for Stormageddon_88:

(Start: 110 @82406 has 35 MA's), (135, 82442), (167, 82553), (176, 82580), (182, 82598), (202, 82688),

Gene: Strokeseat_56 Start: 38330, Stop: 38695, Start Num: 107

Candidate Starts for Strokeseat_56:

(Start: 107 @38330 has 244 MA's), (128, 38363), (138, 38378), (140, 38381), (150, 38423), (154, 38444), (163, 38477), (172, 38498), (173, 38504), (189, 38579), (190, 38585), (228, 38681),

Gene: Sunshine23_66 Start: 44762, Stop: 45172, Start Num: 102

Candidate Starts for Sunshine23_66:

(56, 44612), (Start: 102 @44762 has 2 MA's), (133, 44810), (147, 44852), (152, 44870), (173, 44945), (184, 44993), (188, 45017),

Gene: SuperGrey_63 Start: 42051, Stop: 42416, Start Num: 107

Candidate Starts for SuperGrey_63:

(Start: 107 @42051 has 244 MA's), (128, 42084), (132, 42090), (140, 42102), (150, 42144), (157, 42174), (163, 42198), (165, 42201), (189, 42300), (190, 42306), (218, 42381),

Gene: SwagPiggett_65 Start: 42522, Stop: 42887, Start Num: 107

Candidate Starts for SwagPiggett_65:

(Start: 107 @42522 has 244 MA's), (128, 42555), (138, 42570), (140, 42573), (149, 42612), (150, 42615), (154, 42636), (163, 42669), (173, 42696), (182, 42729), (189, 42771), (190, 42777), (228, 42873),

Gene: TChen_61 Start: 41633, Stop: 41998, Start Num: 107

Candidate Starts for TChen_61:

(Start: 107 @41633 has 244 MA's), (128, 41666), (140, 41684), (149, 41723), (150, 41726), (154, 41747), (157, 41756), (163, 41780), (173, 41807), (182, 41840), (189, 41882), (190, 41888), (228, 41984),

Gene: TChen_59 Start: 41008, Stop: 41361, Start Num: 107

Candidate Starts for TChen_59:

(Start: 93 @40972 has 1 MA's), (Start: 107 @41008 has 244 MA's), (136, 41053), (140, 41059), (154, 41122), (157, 41131), (170, 41167), (176, 41191), (226, 41341),

Gene: TChen_58 Start: 40664, Stop: 41011, Start Num: 108

Candidate Starts for TChen_58:

(96, 40637), (103, 40655), (Start: 108 @40664 has 30 MA's), (121, 40676), (128, 40694), (135, 40703), (150, 40754), (154, 40775), (175, 40838), (182, 40859), (186, 40889),

Gene: TDanisky_67 Start: 41576, Stop: 41941, Start Num: 107

Candidate Starts for TDanisky_67:

(Start: 107 @41576 has 244 MA's), (128, 41609), (132, 41615), (140, 41627), (150, 41669), (157, 41699), (163, 41723), (165, 41726), (189, 41825), (190, 41831), (218, 41906),

Gene: Taj_64 Start: 41975, Stop: 42340, Start Num: 107

Candidate Starts for Taj_64:

(Start: 107 @41975 has 244 MA's), (128, 42008), (138, 42023), (140, 42026), (149, 42065), (150, 42068), (154, 42089), (163, 42122), (173, 42149), (182, 42182), (189, 42224), (190, 42230), (228, 42326),

Gene: Tandem_71 Start: 44831, Stop: 44481, Start Num: 118

Candidate Starts for Tandem_71:

(62, 44972), (87, 44888), (Start: 118 @44831 has 9 MA's), (134, 44804), (139, 44795), (141, 44792), (155, 44729), (160, 44705), (206, 44528), (211, 44513), (223, 44492),

Gene: TaylorSipht_30 Start: 21627, Stop: 21286, Start Num: 105

Candidate Starts for TaylorSipht_30:

(Start: 105 @21627 has 36 MA's), (Start: 127 @21606 has 1 MA's), (152, 21534), (194, 21363), (212, 21303),

Gene: Tbone_46 Start: 33975, Stop: 34388, Start Num: 113

Candidate Starts for Tbone_46:

(54, 33801), (68, 33873), (Start: 113 @33975 has 40 MA's), (143, 34029), (182, 34155), (192, 34209), (242, 34362), (244, 34380),

Gene: Tchotchke_60 Start: 39968, Stop: 40333, Start Num: 107

Candidate Starts for Tchotchke_60:

(Start: 107 @39968 has 244 MA's), (128, 40001), (132, 40007), (140, 40019), (150, 40061), (163, 40115), (165, 40118), (189, 40217), (190, 40223), (218, 40298),

Gene: ThayneTheZag_81 Start: 42670, Stop: 43059, Start Num: 114

Candidate Starts for ThayneTheZag_81:

(Start: 114 @42670 has 50 MA's), (160, 42793), (173, 42826), (176, 42841), (187, 42895),

Gene: ThetaBob_62 Start: 40738, Stop: 41085, Start Num: 108

Candidate Starts for ThetaBob_62:

(96, 40711), (103, 40729), (Start: 108 @40738 has 30 MA's), (121, 40750), (128, 40768), (135, 40777), (150, 40828), (154, 40849), (175, 40912), (182, 40933), (186, 40963),

Gene: ThetaBob_63 Start: 41082, Stop: 41435, Start Num: 107

Candidate Starts for ThetaBob_63:

(Start: 93 @41046 has 1 MA's), (Start: 107 @41082 has 244 MA's), (136, 41127), (140, 41133), (154, 41196), (157, 41205), (170, 41241), (176, 41265), (226, 41415),

Gene: ThetaBob_65 Start: 41707, Stop: 42069, Start Num: 107

Candidate Starts for ThetaBob_65:

(Start: 107 @41707 has 244 MA's), (128, 41740), (138, 41755), (140, 41758), (149, 41797), (150, 41800), (154, 41821), (157, 41830), (173, 41878), (189, 41953), (190, 41959), (228, 42055),

Gene: Thibault_127 Start: 73673, Stop: 74026, Start Num: 110

Candidate Starts for Thibault_127:

(63, 73550), (66, 73562), (Start: 110 @73673 has 35 MA's), (183, 73874), (189, 73916),

Gene: Thonko_86 Start: 63155, Stop: 62742, Start Num: 95

Candidate Starts for Thonko_86:

(20, 63593), (35, 63440), (42, 63365), (47, 63338), (71, 63224), (73, 63218), (Start: 95 @63155 has 1 MA's), (115, 63116), (131, 63086), (137, 63077), (154, 63014), (194, 62858), (197, 62846), (199, 62831), (221, 62783),

Gene: ThreeRngTarjay_139 Start: 77261, Stop: 77614, Start Num: 110

Candidate Starts for ThreeRngTarjay_139:

(Start: 110 @77261 has 35 MA's), (183, 77462), (189, 77504),

Gene: ThursdayNight_48 Start: 33913, Stop: 34314, Start Num: 113

Candidate Starts for ThursdayNight_48:

(Start: 113 @33913 has 40 MA's), (154, 34021), (182, 34105), (210, 34225), (235, 34288),

Gene: Tian_45 Start: 34828, Stop: 35223, Start Num: 113

Candidate Starts for Tian_45:

(10, 34264), (15, 34336), (17, 34345), (24, 34423), (54, 34654), (68, 34726), (Start: 113 @34828 has 40 MA's), (143, 34882), (182, 35008),

Gene: Tiff81_72 Start: 40921, Stop: 41316, Start Num: 114

Candidate Starts for Tiff81_72:

(Start: 114 @40921 has 50 MA's), (139, 40966), (173, 41092), (194, 41188), (230, 41290),

Gene: Toad24_32 Start: 22672, Stop: 22322, Start Num: 105

Candidate Starts for Toad24_32:

(Start: 105 @22672 has 36 MA's), (152, 22573), (214, 22339),

Gene: Tootsieroll_61 Start: 39546, Stop: 39911, Start Num: 107

Candidate Starts for Tootsieroll_61:

(Start: 107 @39546 has 244 MA's), (128, 39579), (138, 39594), (140, 39597), (150, 39639), (154, 39660), (163, 39693), (172, 39714), (173, 39720), (182, 39753), (189, 39795), (190, 39801), (228, 39897),

Gene: Topiatin_65 Start: 41903, Stop: 42250, Start Num: 108

Candidate Starts for Topiatin_65:

(96, 41876), (103, 41894), (Start: 108 @41903 has 30 MA's), (128, 41933), (135, 41942), (142, 41960), (154, 42014), (163, 42041), (182, 42098), (186, 42128), (189, 42140),

Gene: Topiatin_66 Start: 42247, Stop: 42600, Start Num: 107

Candidate Starts for Topiatin_66:

(Start: 93 @42211 has 1 MA's), (Start: 107 @42247 has 244 MA's), (Start: 127 @42277 has 1 MA's), (128, 42280), (136, 42292), (140, 42298), (154, 42361), (157, 42370), (158, 42376), (189, 42490), (194, 42511), (216, 42568), (226, 42580),

Gene: Topiatin_68 Start: 42875, Stop: 43240, Start Num: 107

Candidate Starts for Topiatin_68:

(Start: 107 @42875 has 244 MA's), (128, 42908), (138, 42923), (140, 42926), (149, 42965), (150, 42968), (154, 42989), (172, 43043), (173, 43049), (182, 43082), (189, 43124), (190, 43130), (228, 43226),

Gene: Totinger_59 Start: 39476, Stop: 39841, Start Num: 107

Candidate Starts for Totinger_59:

(Start: 107 @39476 has 244 MA's), (128, 39509), (138, 39524), (140, 39527), (149, 39566), (150, 39569), (154, 39590), (163, 39623), (173, 39650), (182, 39683), (189, 39725), (190, 39731), (228, 39827),

Gene: Tuck_49 Start: 35489, Stop: 35893, Start Num: 113

Candidate Starts for Tuck_49:

(Start: 113 @35489 has 40 MA's), (182, 35669), (192, 35723), (227, 35816), (239, 35867), (243, 35885),

Gene: Tutumahutu_47 Start: 33397, Stop: 33810, Start Num: 113

Candidate Starts for Tutumahutu_47:

(Start: 113 @33397 has 40 MA's), (143, 33451), (182, 33577), (192, 33631), (242, 33784), (244, 33802),

Gene: Tweety_59 Start: 41367, Stop: 41732, Start Num: 107

Candidate Starts for Tweety_59:

(Start: 107 @41367 has 244 MA's), (128, 41400), (132, 41406), (140, 41418), (150, 41460), (157, 41490), (163, 41514), (165, 41517), (189, 41616), (190, 41622), (218, 41697),

Gene: UncleRicky_59 Start: 40457, Stop: 40822, Start Num: 107

Candidate Starts for UncleRicky_59:

(Start: 107 @40457 has 244 MA's), (128, 40490), (138, 40505), (140, 40508), (149, 40547), (150, 40550), (154, 40571), (163, 40604), (172, 40625), (173, 40631), (182, 40664), (189, 40706), (190, 40712), (228, 40808),

Gene: Utz_44 Start: 35948, Stop: 36310, Start Num: 101

Candidate Starts for Utz_44:

(57, 35798), (58, 35804), (64, 35840), (76, 35879), (Start: 101 @35948 has 24 MA's), (155, 36077), (160, 36101),

Gene: VRedHorse_60 Start: 39530, Stop: 39895, Start Num: 107

Candidate Starts for VRedHorse_60:

(Start: 107 @39530 has 244 MA's), (128, 39563), (138, 39578), (140, 39581), (149, 39620), (150, 39623), (154, 39644), (163, 39677), (173, 39704), (182, 39737), (189, 39779), (190, 39785), (228, 39881),

Gene: Velveteen_53 Start: 35652, Stop: 35999, Start Num: 108

Candidate Starts for Velveteen_53:

(96, 35625), (103, 35643), (Start: 108 @35652 has 30 MA's), (128, 35682), (135, 35691), (142, 35709), (154, 35763), (163, 35790), (182, 35847), (186, 35877), (189, 35889),

Gene: Velveteen_54 Start: 35996, Stop: 36349, Start Num: 107

Candidate Starts for Velveteen_54:

(Start: 93 @35960 has 1 MA's), (Start: 107 @35996 has 244 MA's), (Start: 127 @36026 has 1 MA's), (128, 36029), (136, 36041), (140, 36047), (154, 36110), (157, 36119), (158, 36125), (189, 36239), (194, 36260), (216, 36317), (226, 36329),

Gene: Veteran_57 Start: 39234, Stop: 39599, Start Num: 107

Candidate Starts for Veteran_57:

(Start: 107 @39234 has 244 MA's), (128, 39267), (138, 39282), (140, 39285), (149, 39324), (150, 39327), (154, 39348), (163, 39381), (172, 39402), (173, 39408), (182, 39441), (189, 39483), (190, 39489), (228, 39585),

Gene: Vibaki_44 Start: 34927, Stop: 35295, Start Num: 113

Candidate Starts for Vibaki_44:

(Start: 113 @34927 has 40 MA's), (173, 35080), (182, 35113), (184, 35128),

Gene: Violac_62 Start: 41600, Stop: 41965, Start Num: 107

Candidate Starts for Violac_62:

(Start: 107 @41600 has 244 MA's), (128, 41633), (138, 41648), (140, 41651), (150, 41693), (154, 41714), (163, 41747), (172, 41768), (173, 41774), (182, 41807), (189, 41849), (190, 41855), (228, 41951),

Gene: Violeta_59 Start: 34047, Stop: 34484, Start Num: 122

Candidate Starts for Violeta_59:

(7, 33411), (Start: 122 @34047 has 11 MA's), (154, 34143), (160, 34170), (180, 34218), (191, 34275), (192, 34281), (197, 34302), (223, 34368), (233, 34398), (240, 34434),

Gene: Vitus_45 Start: 33911, Stop: 34246, Start Num: 113

Candidate Starts for Vitus_45:

(Start: 113 @33911 has 40 MA's), (173, 34061), (182, 34094),

Gene: Vivum_61 Start: 40532, Stop: 40897, Start Num: 107

Candidate Starts for Vivum_61:

(Start: 107 @40532 has 244 MA's), (128, 40565), (138, 40580), (140, 40583), (150, 40625), (154, 40646), (163, 40679), (172, 40700), (173, 40706), (182, 40739), (189, 40781), (190, 40787), (228, 40883),

Gene: Vulpecula_30 Start: 22301, Stop: 21957, Start Num: 105

Candidate Starts for Vulpecula_30:

(Start: 105 @22301 has 36 MA's), (Start: 127 @22280 has 1 MA's), (141, 22256), (152, 22208),

Gene: Wachhund_61 Start: 40167, Stop: 40532, Start Num: 107

Candidate Starts for Wachhund_61:

(Start: 107 @40167 has 244 MA's), (128, 40200), (135, 40209), (140, 40218), (150, 40260), (157, 40290), (163, 40314), (165, 40317), (189, 40416), (190, 40422), (218, 40497), (220, 40500), (222, 40503),

Gene: Wanda_144 Start: 74968, Stop: 75321, Start Num: 110

Candidate Starts for Wanda_144:

(Start: 110 @74968 has 35 MA's), (183, 75169), (189, 75211),

Gene: Warda_46 Start: 33470, Stop: 33874, Start Num: 113

Candidate Starts for Warda_46:

(Start: 113 @33470 has 40 MA's), (143, 33524), (182, 33650), (192, 33704), (242, 33848),

Gene: Warren_57 Start: 34005, Stop: 34442, Start Num: 122

Candidate Starts for Warren_57:

(Start: 122 @34005 has 11 MA's), (154, 34101), (160, 34128), (180, 34176), (191, 34233), (192, 34239), (197, 34260), (223, 34326), (233, 34356), (238, 34380), (240, 34392),

Gene: Wee_64 Start: 42051, Stop: 42416, Start Num: 107

Candidate Starts for Wee_64:

(Start: 107 @42051 has 244 MA's), (128, 42084), (138, 42099), (140, 42102), (149, 42141), (150, 42144), (154, 42165), (163, 42198), (173, 42225), (182, 42258), (189, 42300), (190, 42306), (228, 42402),

Gene: Westrich_33 Start: 22349, Stop: 21999, Start Num: 105

Candidate Starts for Westrich_33:

(Start: 105 @22349 has 36 MA's), (152, 22250), (214, 22016),

Gene: Whatsapiecost_60 Start: 39457, Stop: 39822, Start Num: 107

Candidate Starts for Whatsapiecost_60:

(Start: 107 @39457 has 244 MA's), (128, 39490), (132, 39496), (140, 39508), (150, 39550), (157, 39580), (163, 39604), (165, 39607), (189, 39706), (190, 39712), (218, 39787), (220, 39790), (222, 39793),

Gene: Whouxphf_57 Start: 40126, Stop: 40491, Start Num: 107

Candidate Starts for Whouxphf_57:

(Start: 107 @40126 has 244 MA's), (128, 40159), (138, 40174), (140, 40177), (149, 40216), (150, 40219), (154, 40240), (163, 40273), (173, 40300), (182, 40333), (189, 40375), (190, 40381), (228,

40477),

Gene: Wildwest_45 Start: 33392, Stop: 33811, Start Num: 113

Candidate Starts for Wildwest_45:

(9, 32825), (18, 32918), (54, 33218), (68, 33290), (Start: 113 @33392 has 40 MA's), (182, 33578), (242, 33785), (244, 33803),

Gene: WileyE_31 Start: 21694, Stop: 21350, Start Num: 105

Candidate Starts for WileyE_31:

(Start: 105 @21694 has 36 MA's), (Start: 127 @21673 has 1 MA's), (152, 21601), (194, 21430), (214, 21367),

Gene: WillSterrel_61 Start: 42001, Stop: 42366, Start Num: 107

Candidate Starts for WillSterrel_61:

(Start: 107 @42001 has 244 MA's), (128, 42034), (138, 42049), (140, 42052), (149, 42091), (150, 42094), (154, 42115), (173, 42175), (182, 42208), (189, 42250), (190, 42256), (228, 42352),

Gene: Winchester007_4 Start: 1219, Stop: 1656, Start Num: 122

Candidate Starts for Winchester007_4:

(Start: 122 @1219 has 11 MA's), (154, 1315), (160, 1342), (180, 1390), (191, 1447), (192, 1453), (197, 1474), (223, 1540), (233, 1570), (238, 1594), (240, 1606),

Gene: Windest_80 Start: 41108, Stop: 41497, Start Num: 114

Candidate Starts for Windest_80:

(Start: 114 @41108 has 50 MA's), (160, 41231), (173, 41264), (176, 41279), (187, 41333),

Gene: Wisp_50 Start: 36176, Stop: 36538, Start Num: 101

Candidate Starts for Wisp_50:

(64, 36068), (76, 36107), (Start: 101 @36176 has 24 MA's), (148, 36275), (154, 36302), (155, 36305), (160, 36329), (178, 36374),

Gene: Wolfstar_76 Start: 46237, Stop: 45881, Start Num: 118

Candidate Starts for Wolfstar_76:

(62, 46384), (87, 46300), (Start: 118 @46237 has 9 MA's), (137, 46201), (139, 46198), (146, 46171), (162, 46102), (168, 46081), (182, 46036), (188, 45997), (190, 45988), (206, 45928), (211, 45913), (217, 45904),

Gene: XFactor_58 Start: 39256, Stop: 39621, Start Num: 107

Candidate Starts for XFactor_58:

(Start: 107 @39256 has 244 MA's), (128, 39289), (132, 39295), (140, 39307), (150, 39349), (157, 39379), (163, 39403), (165, 39406), (189, 39505), (190, 39511), (218, 39586), (220, 39589),

Gene: Yago84_47 Start: 41514, Stop: 41140, Start Num: 85

Candidate Starts for Yago84_47:

(Start: 85 @41514 has 14 MA's), (135, 41454), (153, 41391), (154, 41382), (187, 41262),

Gene: Yang_46 Start: 33276, Stop: 33626, Start Num: 113

Candidate Starts for Yang_46:

(25, 32868), (26, 32877), (39, 33003), (49, 33066), (52, 33087), (55, 33096), (59, 33114), (60, 33123), (Start: 113 @33276 has 40 MA's), (143, 33330), (182, 33456),

Gene: Yeet_138 Start: 76734, Stop: 77087, Start Num: 110

Candidate Starts for Yeet_138:

(70, 76632), (Start: 110 @76734 has 35 MA's), (183, 76935), (189, 76977),

Gene: YesChef_46 Start: 33373, Stop: 33786, Start Num: 113

Candidate Starts for YesChef_46:

(Start: 113 @33373 has 40 MA's), (143, 33427), (182, 33553), (192, 33607), (242, 33760), (244, 33778),

Gene: Yorick_59 Start: 40588, Stop: 40953, Start Num: 107

Candidate Starts for Yorick_59:

(Start: 107 @40588 has 244 MA's), (128, 40621), (138, 40636), (140, 40639), (149, 40678), (150, 40681), (154, 40702), (163, 40735), (173, 40762), (182, 40795), (189, 40837), (190, 40843), (228, 40939),

Gene: Yoshi_73 Start: 41971, Stop: 42333, Start Num: 107

Candidate Starts for Yoshi_73:

(Start: 107 @41971 has 244 MA's), (128, 42004), (138, 42019), (140, 42022), (149, 42061), (150, 42064), (154, 42085), (157, 42094), (173, 42142), (189, 42217), (190, 42223), (228, 42319),

Gene: Yoshi_71 Start: 41346, Stop: 41699, Start Num: 107

Candidate Starts for Yoshi_71:

(Start: 93 @41310 has 1 MA's), (Start: 107 @41346 has 244 MA's), (136, 41391), (140, 41397), (154, 41460), (157, 41469), (170, 41505), (176, 41529), (226, 41679),

Gene: Yoshi_70 Start: 41002, Stop: 41349, Start Num: 108

Candidate Starts for Yoshi_70:

(96, 40975), (103, 40993), (Start: 108 @41002 has 30 MA's), (121, 41014), (128, 41032), (135, 41041), (150, 41092), (154, 41113), (175, 41176), (182, 41197), (186, 41227),

Gene: YoungHarleezy_76 Start: 42016, Stop: 42417, Start Num: 114

Candidate Starts for YoungHarleezy_76:

(Start: 114 @42016 has 50 MA's), (173, 42184), (187, 42253),

Gene: Zapner_73 Start: 42130, Stop: 42495, Start Num: 107

Candidate Starts for Zapner_73:

(Start: 107 @42130 has 244 MA's), (128, 42163), (138, 42178), (140, 42181), (149, 42220), (150, 42223), (154, 42244), (163, 42277), (173, 42304), (182, 42337), (189, 42379), (190, 42385), (228, 42481),

Gene: Zarbodnamra_50 Start: 34890, Stop: 35252, Start Num: 101

Candidate Starts for Zarbodnamra_50:

(58, 34746), (64, 34782), (76, 34821), (Start: 101 @34890 has 24 MA's), (155, 35019), (160, 35043),

Gene: Zelink_139 Start: 77780, Stop: 78133, Start Num: 110

Candidate Starts for Zelink_139:

(Start: 110 @77780 has 35 MA's), (183, 77981), (189, 78023),

Gene: Zenteno07_93 Start: 66203, Stop: 65790, Start Num: 91

Candidate Starts for Zenteno07_93:

(Start: 91 @66203 has 3 MA's), (131, 66122), (158, 66035), (173, 65993), (182, 65960), (197, 65885), (230, 65795),

Gene: Zerg_60 Start: 40001, Stop: 40366, Start Num: 107

Candidate Starts for Zerg_60:

(Start: 107 @40001 has 244 MA's), (128, 40034), (138, 40049), (140, 40052), (149, 40091), (150, 40094), (154, 40115), (163, 40148), (173, 40175), (182, 40208), (189, 40250), (190, 40256), (228, 40352),

Gene: Zhuangyuan_35 Start: 22960, Stop: 22577, Start Num: 94

Candidate Starts for Zhuangyuan_35:

(51, 23122), (Start: 94 @22960 has 3 MA's), (179, 22747), (212, 22615),

Gene: ZiggyZoo_51 Start: 37223, Stop: 37585, Start Num: 101

Candidate Starts for ZiggyZoo_51:

(64, 37115), (76, 37154), (Start: 101 @37223 has 24 MA's), (148, 37322), (154, 37349), (155, 37352), (160, 37376),

Gene: Zilla_49 Start: 34637, Stop: 34999, Start Num: 101

Candidate Starts for Zilla_49:

(58, 34493), (64, 34529), (76, 34568), (Start: 101 @34637 has 24 MA's), (155, 34766), (160, 34790),

Gene: Zixiang_29 Start: 22031, Stop: 21678, Start Num: 105

Candidate Starts for Zixiang_29:

(Start: 105 @22031 has 36 MA's), (152, 21932), (214, 21695),

Gene: Zizzle_64 Start: 41844, Stop: 42209, Start Num: 107

Candidate Starts for Zizzle_64:

(Start: 107 @41844 has 244 MA's), (128, 41877), (138, 41892), (140, 41895), (149, 41934), (150, 41937), (154, 41958), (163, 41991), (173, 42018), (182, 42051), (189, 42093), (190, 42099), (228, 42195),

Gene: Zucker_73 Start: 43088, Stop: 43483, Start Num: 114

Candidate Starts for Zucker_73:

(46, 42881), (Start: 114 @43088 has 50 MA's), (139, 43133), (160, 43226), (173, 43259), (230, 43457),