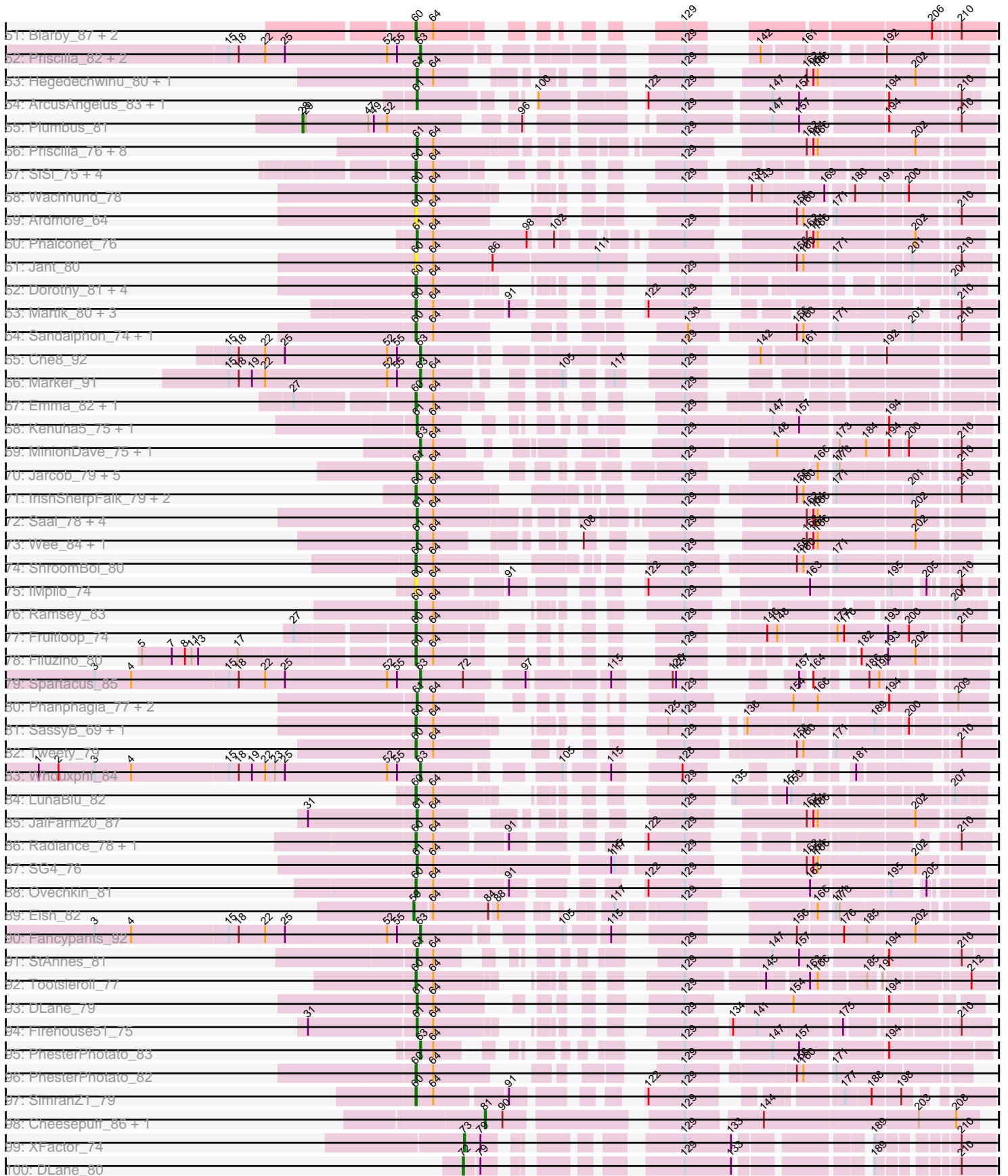
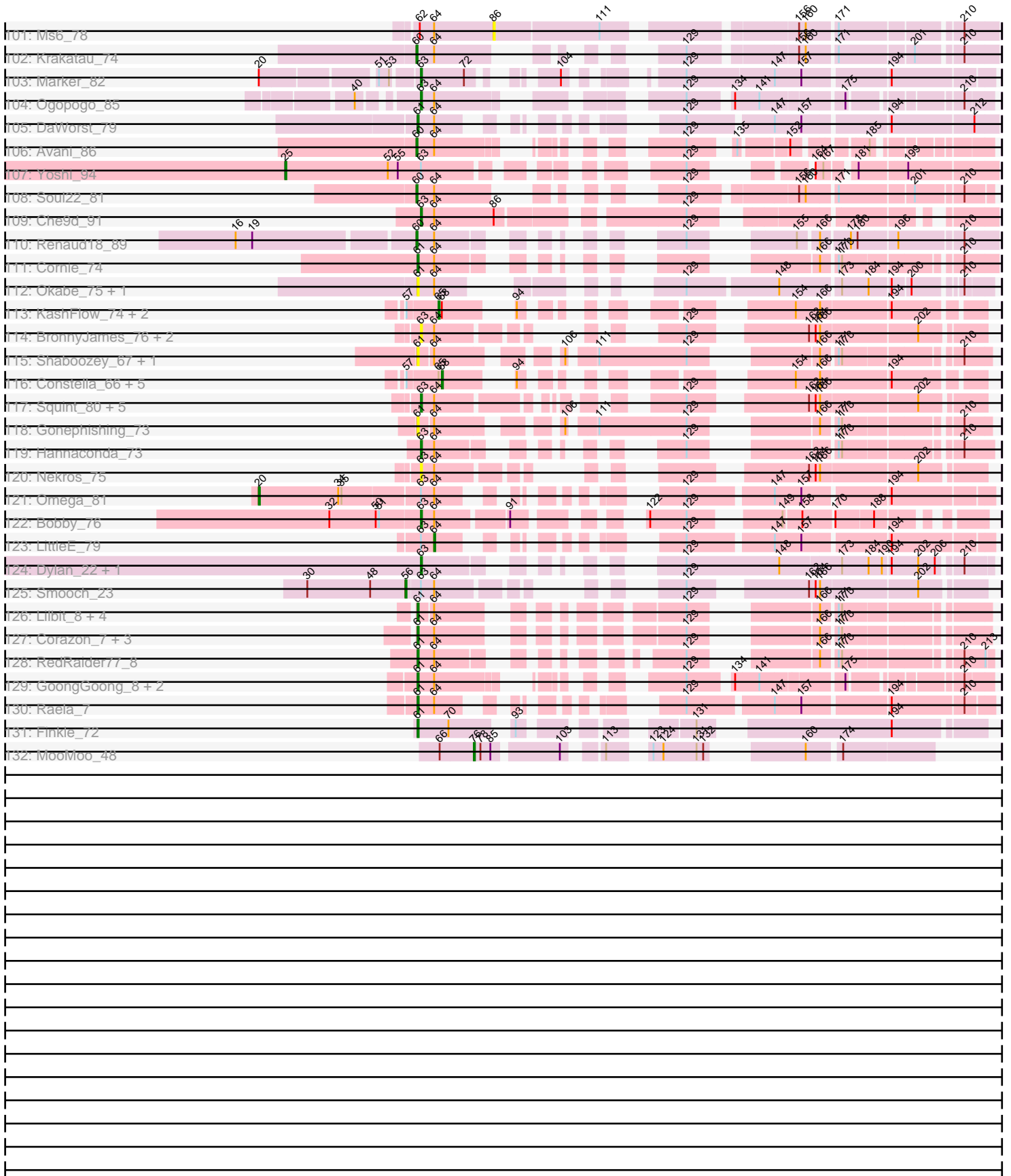


Pham 311102



Pham 311102



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 311102 Report

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

Pham number 311102 has 386 members, 33 are drafts.

Phages represented in each track:

- Track 1 : Homines_53
- Track 2 : Peterson_65
- Track 3 : Dreamboat_79, Jasper_78, PherrisBueller_78
- Track 4 : MaryBeth_59, Corvo_62, MetalQZJ_58
- Track 5 : Kenmech_82, Abbysshoes_80, Dussy_79
- Track 6 : SkiPole_69
- Track 7 : Raid_77
- Track 8 : SarFire_60, Thor_60
- Track 9 : Teodoridan_77, Ajay_76
- Track 10 : Tripl3t_83
- Track 11 : Peterson_79
- Track 12 : Zeeculate_77
- Track 13 : Eyeball_79, KSSJEB_78, Puppet_75
- Track 14 : Ringer_61
- Track 15 : STLscum_69
- Track 16 : ProMouse_60
- Track 17 : Gyzlar_56
- Track 18 : Kugel_63
- Track 19 : Zeuska_66
- Track 20 : Target_63
- Track 21 : Target_79
- Track 22 : Jorgensen_64
- Track 23 : Kykar_79
- Track 24 : Fushigi_75
- Track 25 : KBG_62
- Track 26 : Saskia_69
- Track 27 : BigCity_8, InterFolia_8, EggyFarm_8, LordLeafolot_8, LolaVinca_8, DTDevon_8, PharkleMinkus_8, Tyke_8, Specks_8, Dandelion_7, FrayBell_8, Drazdys_8, Grasshills_8
- Track 28 : Loanshark_14, Pinkcreek_9, Teardrop_13, StubbySaigey_13, BananaFence_14, YemiJoy2021_14, SVoro_14, Rahel_13, Essence_13, Belieber_12, Ewok_14, Kboogie_13, EmmaElysia_13, Bonray_14, Dietrick_12, Ablatia_13, Jessibeth14_14, NedWong_14, Trinitium_13, Phlegm_14, ZygoTaiga_15, Delilah_14, Janiyra_13, Gizmo_15, Gamgam_13, Pivoine_13, McWolfish_14, Capablanca_14, ChickenPhender_13, Adlitam_13, ErnieJ_17, PurduePete_14, DrPhinkDaddy_14, Rizal_13, Labradorite_12, Naija_13, FoxtrotP1_15, Khaleesi_14, Derek_14, Caravan_16, ValleyTerrace_13, Shifa_10, Shelob_17, Bipolarisk_14,

Morizzled23_13, Amataga_13, InigoMontoya_14, Sprinklers_13, Turret_13, Darko_13, Zalkecks_15, Wally_13, Bread_14, Ava3_15, Jaygup_13, Alice_12, Latch_13, Tortoise16_12, Basquiat_13, Matsumoto_13, McGee_13, Shrimp_14, LifeSavor_14, CindyLou_13, SilverDipper_13, Shnickers_13, JPickles_13, BackyardAgain_12, CharlieB_15, TinyTim_14, Megamind_14, Atlantean_13, Napoleon13_13, ET08_12, ArcherS7_13, ChaylaJr_13, EmToTheThree_17, Rabinovich_12, Jedediah_13, Erdmann_14, Guwapp_13, LRRHood_14, Pleione_15, HyRo_11, Quasimodo_13, SrishMeg2525_14, Ghost_14, Norm_14, Chomp_13, Littleton_14, Zeenon_16, Maby2021_14, Daffodil_15, FudgeTart_14, Breeniome_14, Phox_14, Substance289_12, EasyJones_13, Fixie_12, Ngannou_13, Babyland_13, Roots515_14, Chargie21_13, Delylah_16, ParkTD_14, Catera_13, MikeLiesIn_15, Asterius_15, Audrick_14, Blackbrain_13, JustHall_13, Melpomini_13, Willis_14, Stubby_14, GlutenPhree_13, Jemmno_12, BadAgartude_14, SmallFry_13, Phusco_13, Izajani_14, Burrough_14, Yucca_13, Issimir_14, Bezza_10, Momo_13, YoungMoneyMata_13, Salacia_15, Gabriel_14, ShiaLabeouf_13, Bangla1971_13, Fludd_13, Flabslab_13, Cactojaque_12, Ading_13

- Track 29 : Vortrix_21
- Track 30 : Sebata_7, JayJay_7, LinStu_7
- Track 31 : Cali_14
- Track 32 : MoMoMixon_5, ScottMcG_5, Nidhogg_5, Jezreel_6, Pio_6, Mikro_6, Astraea_6, Bxz1_6, JulietS_6, NoodleTree_6, Spud_6, Sauce_5, DirtMonster_6, Naval22_6, QBert_6
- Track 33 : Patter_13
- Track 34 : ScottMcG_15
- Track 35 : Pier_7, NuevoMundo_7, StephanieG_7
- Track 36 : RoMag_5, Kamryn_6
- Track 37 : l3_7
- Track 38 : Blackdragon_12
- Track 39 : Mangeria_6
- Track 40 : Nappy_6
- Track 41 : Yassified_13, Duckfeet_14
- Track 42 : Elite2014_45, Lilpickle_45, ChosenOne_46
- Track 43 : Amao_44
- Track 44 : DoctorDiddles_44, Pat3_42, ChotaBhai_44, BaboJay_42
- Track 45 : Eureka_44
- Track 46 : NonchalantPear_46, Ukulele_42
- Track 47 : Simpliphy_43, Petruccio_60
- Track 48 : Bench_44
- Track 49 : Goku_44
- Track 50 : Clank_80
- Track 51 : Blarby_87, Zapner_87, Jabbawokkie_88
- Track 52 : Priscilla_82, Koella_74, NormanBulbieJr_80
- Track 53 : Hegedechwinu_80, Crumble_76
- Track 54 : ArcusAngelus_83, Chevrolet_86
- Track 55 : Plumbus_81
- Track 56 : Priscilla_76, NormanBulbieJr_75, Cabrinians_78, FreddyB_88, Koella_70, SwagPiggett_82, Brocalys_71, LastJedi_70, BobaPhett_81
- Track 57 : SiSi_75, Girr_75, Ruby_73, MisterCuddles_76, Veteran_71
- Track 58 : Wachhund_78
- Track 59 : Ardmore_64
- Track 60 : Phalconet_76
- Track 61 : Jant_80
- Track 62 : Dorothy_81, Inventum_78, RedBird_81, Sassafras_81, SuperGrey_79

- Track 63 : Martik_80, Pippy_75, Blexus_75, Leozinho_78
- Track 64 : Sandalphon_74, Minnie_76
- Track 65 : Che8_92
- Track 66 : Marker_91
- Track 67 : Emma_82, Mantra_76
- Track 68 : Kenuha5_75, Gandalph_77
- Track 69 : MinionDave_75, CaptainTrips_79
- Track 70 : Jarcob_79, Clifton_72, Philus_82, James_80, OlympiaSaint_79, DRBy19_83
- Track 71 : IrishSherpFalk_79, WillSterrel_78, Bubbles123_74
- Track 72 : Saal_78, Gorge_80, Flathead_78, Lizziana_83, Donkeykong_83
- Track 73 : Wee_84, Taj_85
- Track 74 : ShroomBoi_80
- Track 75 : IMpilo_74
- Track 76 : Ramsey_83
- Track 77 : Fruitloop_74
- Track 78 : Filuzino_80
- Track 79 : Spartacus_85
- Track 80 : Phanphagia_77, Shauna1_78, Kingsley_82
- Track 81 : SassyB_69, PopTart_69
- Track 82 : Tweety_79
- Track 83 : Whouxphf_84
- Track 84 : LunaBlu_82
- Track 85 : JalFarm20_87
- Track 86 : Radiance_78, Dante_78
- Track 87 : SG4_76
- Track 88 : Ovechkin_81
- Track 89 : Eish_82
- Track 90 : Fancypants_92
- Track 91 : StAnnes_81
- Track 92 : Tootsieroll_77
- Track 93 : DLane_79
- Track 94 : Firehouse51_75
- Track 95 : PhesterPhotato_83
- Track 96 : PhesterPhotato_82
- Track 97 : SimranZ1_79
- Track 98 : Cheesepuff_86, Brushbloom_82
- Track 99 : XFactor_74
- Track 100 : DLane_80
- Track 101 : Ms6_78
- Track 102 : Krakatau_74
- Track 103 : Marker_82
- Track 104 : Ogopogo_85
- Track 105 : DaWorst_79
- Track 106 : Avani_86
- Track 107 : Yoshi_94
- Track 108 : Soul22_81
- Track 109 : Che9d_91
- Track 110 : Renaud18_89
- Track 111 : Cornie_74
- Track 112 : Okabe_75, Mwanjiwa_82
- Track 113 : KashFlow_74, BAKA_84, Minerva_82
- Track 114 : BronnyJames_76, Shaboozey_75, Nibley_69

- Track 115 : Shaboozey_67, BronnyJames_68
- Track 116 : Constella_66, Duke13_83, Marleymoo_69, Xiaokay_70, Thibault_67, Pound_80
- Track 117 : Squint_80, Porcelain_79, MiaZeal_80, Lucky2013_77, Superphikiman_77, Ariel_79
- Track 118 : Gonephishing_73
- Track 119 : Hannaconda_73
- Track 120 : Nekros_75
- Track 121 : Omega_81
- Track 122 : Bobby_76
- Track 123 : LittleE_79
- Track 124 : Dylan_22, Zakhe101_23
- Track 125 : Smooch_23
- Track 126 : Lilbit_8, FeliMaine_8, Pringar_7, Beelzebub_9, Clarkson_8
- Track 127 : Corazon_7, JoieB_8, Huphlebuff_7, LittleLaf_7
- Track 128 : RedRaider77_8
- Track 129 : GoongGoong_8, MosMoris_9, Gattaca_9
- Track 130 : Raela_7
- Track 131 : Finkle_72
- Track 132 : MooMoo_48

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

The start number called the most often in the published annotations is 61, it was called in 204 of the 353 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_13, Ading_13, Adlitam_13, Alice_12, Amataga_13, ArcherS7_13, ArcusAngelus_83, Asterius_15, Astraea_6, Atlantean_13, Audrick_14, Ava3_15, Babyland_13, BackyardAgain_12, BadAgartude_14, BananaFence_14, Bangla1971_13, Basquiat_13, Beelzebub_9, Belieber_12, Bezza_10, Bipolarisk_14, Blackbrain_13, Blackdragon_12, BobaPhett_81, Bonray_14, Bread_14, Breeniome_14, Brocalys_71, BronnyJames_68, Burrough_14, Bxz1_6, Cabrinians_78, Cactojaque_12, Cali_14, Capablanca_14, Caravan_16, Catera_13, Chargie21_13, CharlieB_15, ChaylaJr_13, Chevrolet_86, ChickenPhender_13, Chomp_13, CindyLou_13, Clarkson_8, Clifton_72, Corazon_7, Cornie_74, Crumble_76, DLane_79, DRBy19_83, DaWorst_79, Daffodil_15, Darko_13, Delilah_14, Delylah_16, Derek_14, Dietrick_12, DirtMonster_6, Donkeykong_83, DrPhinkDaddy_14, Dreamboat_79, Duckfeet_14, ET08_12, EasyJones_13, EmToTheThree_17, EmmaElysia_13, Erdmann_14, ErnieJ_17, Essence_13, Ewok_14, FeliMaine_8, Finkle_72, Firehouse51_75, Fixie_12, Flabslab_13, Flathead_78, Fludd_13, FoxtrotP1_15, FreddyB_88, FudgeTart_14, Gabriel_14, Gangam_13, Gandolph_77, Gattaca_9, Ghost_14, Gizmo_15, GlutenPhree_13, Gonephishing_73, GoongGoong_8, Gorge_80, Guwapp_13, Hegedechwinu_80, Huphlebuff_7, HyRo_11, InigoMontoya_14, Issimir_14, Izajani_14, JPickles_13, JalFarm20_87, James_80, Janiyra_13, Jarcob_79, Jasper_78, Jaygup_13, Jedediah_13, Jemmno_12, Jessibeth14_14, Jezreel_6, JoieB_8, JulietS_6, JustHall_13, Kboogie_13, Kenuha5_75, Khaleesi_14, Kingsley_82, Koella_70, LRRHood_14, Labradorite_12, LastJedi_70, Latch_13, LifeSavor_14, Lilbit_8, LittleLaf_7, Littleton_14, Lizziana_83, Loanshark_14, Maby2021_14, Matsumoto_13,

McGee_13, McWolfish_14, Megamind_14, Melpomini_13, MikeLiesIn_15, Mikro_6, MoMoMixon_5, Momo_13, Morizzled23_13, MosMoris_9, Mwanjiwa_82, Naija_13, Napoleon13_13, Naval22_6, NedWong_14, Ngannou_13, Nidhogg_5, NoodleTree_6, Norm_14, NormanBulbieJr_75, Okabe_75, OlympiaSaint_79, ParkTD_14, Phalconet_76, Phanphagia_77, PherrisBueller_78, Philus_82, Phlegm_14, Phox_14, Phusco_13, Pinkcreek_9, Pio_6, Pivoine_13, Pleione_15, Pringar_7, Priscilla_76, PurduePete_14, QBert_6, Quasimodo_13, Rabinovish_12, Raela_7, Rahel_13, RedRaider77_8, Ringer_61, Rizal_13, Roots515_14, SG4_76, SVoro_14, Saal_78, Salacia_15, Sauce_5, ScottMcG_5, Shaboozey_67, Shauna1_78, Shelob_17, ShiaLabeouf_13, Shifa_10, Shnickers_13, Shrimp_14, SilverDipper_13, SmallFry_13, Sprinklers_13, Spud_6, SrishMeg2525_14, StAnnes_81, StubbySaigey_13, Stubby_14, Substance289_12, SwagPigglett_82, Taj_85, Teardrop_13, TinyTim_14, Tortoise16_12, Trinitium_13, Turret_13, ValleyTerrace_13, Wally_13, Wee_84, Willis_14, Yassified_13, YemiJoy2021_14, YoungMoneyMata_13, Yucca_13, Zalkecks_15, Zeenon_16, ZygoTaiga_15,

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

- Kamryn_6, Patter_13, RoMag_5, Vortex_21,

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

- Abbyshoes_80, Ajay_76, Amao_44, Ardmore_64, Ariel_79, Avani_86, BAKA_84, BaboJay_42, Bench_44, BigCity_8, Blarby_87, Blexus_75, Bobby_76, BronnyJames_76, Brushbloom_82, Bubbles123_74, CaptainTrips_79, Che8_92, Che9d_91, CheesePuff_86, ChosenOne_46, ChotaBhai_44, Clank_80, Constella_66, Corvo_62, DLane_80, DTDevon_8, Dandelion_7, Dante_78, DoctorDiddles_44, Dorothy_81, Drazdys_8, Duke13_83, Dussy_79, Dylan_22, EggyFarm_8, Eish_82, Elite2014_45, Emma_82, Eureka_44, Eyeball_79, FancyPants_92, Filuzino_80, FrayBell_8, Fruitloop_74, Fushigi_75, Girr_75, Goku_44, Grasshills_8, Gyzlar_56, Hannaconda_73, Homines_53, I3_7, IMPilo_74, InterFolia_8, Inventum_78, IrishSherpFalk_79, Jabbawokkie_88, Jant_80, JayJay_7, Jorgensen_64, KBG_62, KSSJEB_78, KashFlow_74, Kenmech_82, Koella_74, Krakatau_74, Kugel_63, Kykar_79, Leozinho_78, LilPickle_45, LinStu_7, LittleE_79, LolaVinca_8, LordLeafolot_8, Lucky2013_77, LunaBlu_82, Mangeria_6, Mantra_76, Marker_82, Marker_91, Marleymoo_69, Martik_80, MaryBeth_59, MetalQZJ_58, MiaZeal_80, Minerva_82, MinionDave_75, Minnie_76, MisterCuddles_76, MooMoo_48, Ms6_78, Nappy_6, Nekros_75, Nibley_69, NonchalantPear_46, NormanBulbieJr_80, NuevoMundo_7, Ogopogo_85, Omega_81, Ovechkin_81, Pat3_42, Peterson_65, Peterson_79, Petruccio_60, PharkleMinkus_8, PhesterPotato_82, PhesterPotato_83, Pier_7, Pippy_75, Plumbus_81, PopTart_69, Porcelain_79, Pound_80, Priscilla_82, ProMouse_60, Puppet_75, Radiance_78, Raid_77, Ramsey_83, RedBird_81, Renaud18_89, Ruby_73, STLscum_69, Sandalphon_74, SarFire_60, Saskia_69, Sassafras_81, SassyB_69, ScottMcG_15, Sebata_7, Shaboozey_75, ShroomBoi_80, SiSi_75, Simpliphy_43, SimranZ1_79, SkiPole_69, Smooch_23, Soul22_81, Spartacus_85, Specks_8, Squint_80, StephanieG_7, SuperGrey_79, Superphikiman_77, Target_63, Target_79, Teodoridan_77, Thibault_67, Thor_60, Tootsieroll_77, Tripl3t_83, Tweety_79, Tyke_8, Ukulele_42, Veteran_71, Wachhund_78, Whouxphf_84, WillSterrel_78, XFactor_74, Xiaokay_70, Yoshi_94, Zakhe101_23, Zapner_87, Zeeculate_77, Zeuska_66,

Summary by start number:

Start 20:

- Found in 2 of 386 (0.5%) of genes in pham

- Manual Annotations of this start: 1 of 353
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Omega_81 (J),

Start 25:

- Found in 8 of 386 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 353
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Yoshi_94 (F2),

Start 28:

- Found in 1 of 386 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Plumbus_81 (F1),

Start 54:

- Found in 7 of 386 (1.8%) of genes in pham
- Manual Annotations of this start: 2 of 353
- Called 28.6% of time when present
- Phage (with cluster) where this start called: NonchalantPear_46 (E), Ukulele_42 (E),

Start 56:

- Found in 1 of 386 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Smooch_23 (O),

Start 59:

- Found in 1 of 386 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eish_82 (F1),

Start 60:

- Found in 47 of 386 (12.2%) of genes in pham
- Manual Annotations of this start: 43 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ardmore_64 (F1), Avani_86 (F2), Blarby_87 (F), Blexus_75 (F1), Bubbles123_74 (F1), Dante_78 (F1), Dorothy_81 (F1), Emma_82 (F1), Filuzino_80 (F1), Fruitloop_74 (F1), Girr_75 (F1), IMpilo_74 (F1), Inventum_78 (F1), IrishSherpFalk_79 (F1), Jabbawokkie_88 (F2), Jant_80 (F1), Krakatau_74 (F1), Leozinho_78 (F1), LunaBlu_82 (F1), Mantra_76 (F1), Martik_80 (F1), Minnie_76 (F1), MisterCuddles_76 (F1), Ovechkin_81 (F1), PhesterPhotato_82 (F1), Pippy_75 (F1), PopTart_69 (F1), Radiance_78 (F1), Ramsey_83 (F1), RedBird_81 (F1), Renaud18_89 (F4), Ruby_73 (F1), Sandalphon_74 (F1), Sassafras_81 (F1), SassyB_69 (F1), ScottMcG_15 (C1), ShroomBoi_80 (F1), SiSi_75 (F1), SimranZ1_79 (F1), Soul22_81 (F2), SuperGrey_79 (F1), Tootsieroll_77 (F1), Tweety_79 (F1), Veteran_71 (F1), Wachhund_78 (F1), WillSterrel_78 (F1), Zapner_87 (F2),

Start 61:

- Found in 220 of 386 (57.0%) of genes in pham

- Manual Annotations of this start: 204 of 353
- Called 98.2% of time when present
- Phage (with cluster) where this start called: Ablatia_13 (C1), Ading_13 (C1), Adlitam_13 (C1), Alice_12 (C1), Amataga_13 (C1), ArcherS7_13 (C1), ArcusAngelus_83 (F1), Asterius_15 (C1), Astraea_6 (C1), Atlantean_13 (C1), Audrick_14 (C1), Ava3_15 (C1), Babyland_13 (C1), BackyardAgain_12 (C1), BadAgartude_14 (C1), BananaFence_14 (C1), Bangla1971_13 (C1), Basquiat_13 (C1), Beelzebub_9 (S), Belieber_12 (C1), Bezza_10 (C1), Bipolarisk_14 (C1), Blackbrain_13 (C1), Blackdragon_12 (C1), BobaPhett_81 (F1), Bonray_14 (C1), Bread_14 (C1), Breeniome_14 (C1), Brocalys_71 (F1), BronnyJames_68 (J), Burrough_14 (C1), Bxz1_6 (C1), Cabrinians_78 (F1), Cactojaque_12 (C1), Cali_14 (C1), Capablanca_14 (C1), Caravan_16 (C1), Catera_13 (C1), Chargie21_13 (C1), CharlieB_15 (C1), ChaylaJr_13 (C1), Chevrolet_86 (F1), ChickenPhender_13 (C1), Chomp_13 (C1), CindyLou_13 (C1), Clarkson_8 (S), Clifton_72 (F1), Corazon_7 (S), Cornie_74 (F5), Crumble_76 (F1), DLane_79 (F1), DRBy19_83 (F1), DaWorst_79 (F1), Daffodil_15 (C1), Darko_13 (C1), Delilah_14 (C1), Delylah_16 (C1), Derek_14 (C1), Dietrick_12 (C1), DirtMonster_6 (C1), Donkeykong_83 (F1), DrPhinkDaddy_14 (C1), Dreamboat_79 (A1), Duckfeet_14 (C1), ET08_12 (C1), EasyJones_13 (C1), EmToTheThree_17 (C1), EmmaElysia_13 (C1), Erdmann_14 (C1), ErnieJ_17 (C1), Essence_13 (C1), Ewok_14 (C1), FeliMaine_8 (S), Finkle_72 (singleton), Firehouse51_75 (F1), Fixie_12 (C1), Flabslab_13 (C1), Flathead_78 (F1), Fludd_13 (C1), FoxtrotP1_15 (C1), FreddyB_88 (F1), FudgeTart_14 (C1), Gabriel_14 (C1), Gamgam_13 (C1), Gandolph_77 (F1), Gattaca_9 (S), Ghost_14 (C1), Gizmo_15 (C1), GlutenPhree_13 (C1), Gonephishing_73 (J), GoongGoong_8 (S), Gorge_80 (F1), Guwapp_13 (C1), Hegedechwinu_80 (F1), Huphlepuuff_7 (S), HyRo_11 (C1), InigoMontoya_14 (C1), Issimir_14 (C1), Izajani_14 (C1), JPickles_13 (C1), JalFarm20_87 (F1), James_80 (F1), Janiyra_13 (C1), Jarcob_79 (F1), Jasper_78 (A1), Jaygup_13 (C1), Jedediah_13 (C1), Jemmno_12 (C1), Jessibeth14_14 (C1), Jezreel_6 (C1), JoieB_8 (S), JulietS_6 (C1), JustHall_13 (C1), Kboogie_13 (C1), Kenuha5_75 (F1), Khaleesi_14 (C1), Kingsley_82 (F1), Koella_70 (F1), LRRHood_14 (C1), Labradorite_12 (C1), LastJedi_70 (F1), Latch_13 (C1), LifeSavor_14 (C1), Lilbit_8 (S), LittleLaf_7 (S), Littleton_14 (C1), Lizziana_83 (F1), Loanshark_14 (C1), Maby2021_14 (C1), Matsumoto_13 (C1), McGee_13 (C1), McWolfish_14 (C1), Megamind_14 (C1), Melpomini_13 (C1), MikeLiesIn_15 (C1), Mikro_6 (C1), MoMoMixon_5 (C1), Momo_13 (C1), Morizzled23_13 (C1), MosMoris_9 (S), Mwanjiwa_82 (F1), Naija_13 (C1), Napoleon13_13 (C1), Naval22_6 (C1), NedWong_14 (C1), Ngannou_13 (C1), Nidhogg_5 (C1), NoodleTree_6 (C1), Norm_14 (C1), NormanBulbieJr_75 (F1), Okabe_75 (F8), OlympiaSaint_79 (F1), ParkTD_14 (C1), Phalconet_76 (F1), Phanphagia_77 (F1), PherrisBueller_78 (A1), Philus_82 (F1), Phlegm_14 (C1), Phox_14 (C1), Phusco_13 (C1), Pinkcreek_9 (C1), Pio_6 (C1), Pivoine_13 (C1), Pleione_15 (C1), Pringar_7 (S), Priscilla_76 (F1), PurduePete_14 (C1), QBert_6 (C1), Quasimodo_13 (C1), Rabinovish_12 (C1), Raela_7 (S), Rahel_13 (C1), RedRaider77_8 (S), Ringer_61 (A1), Rizal_13 (C1), Roots515_14 (C1), SG4_76 (F1), SVoro_14 (C1), Saal_78 (F1), Salacia_15 (C1), Sauce_5 (C1), ScottMcG_5 (C1), Shaboozey_67 (J), Shauna1_78 (F1), Shelob_17 (C1), ShiaLabeouf_13 (C1), Shifa_10 (C1), Shnickers_13 (C1), Shrimp_14 (C1), SilverDipper_13 (C1), SmallFry_13 (C1), Sprinklers_13 (C1), Spud_6 (C1), SrishMeg2525_14 (C1), StAnnes_81 (F1), StubbySaigey_13 (C1), Stubby_14 (C1), Substance289_12 (C1), SwagPiggett_82 (F1), Taj_85 (F1), Teardrop_13 (C1), TinyTim_14 (C1), Tortoise16_12 (C1), Trinitium_13 (C1), Turret_13 (C1), ValleyTerrace_13 (C1), Wally_13 (C1), Wee_84 (F1), Willis_14 (C1), Yassified_13 (C1), YemiJoy2021_14 (C1), YoungMoneyMata_13 (C1), Yucca_13 (C1), Zalkecks_15 (C1), Zeenon_16 (C1), ZygoTaiga_15 (C1),

Start 63:

- Found in 79 of 386 (20.5%) of genes in pham
- Manual Annotations of this start: 65 of 353
- Called 91.1% of time when present
- Phage (with cluster) where this start called: Abbyshoes_80 (A1), Ajay_76 (A1), Amao_44 (E), Ariel_79 (J), BaboJay_42 (E), Bench_44 (E), Bobby_76 (J), BronnyJames_76 (J), CaptainTrips_79 (F1), Che8_92 (F1), Che9d_91 (F2), ChosenOne_46 (E), ChotaBhai_44 (E), Corvo_62 (A1), DoctorDiddles_44 (E), Dussy_79 (A1), Dylan_22 (O), Elite2014_45 (E), Eyeball_79 (A1), Fancypants_92 (F1), Fushigi_75 (A1), Gyzlar_56 (A1), Hannaconda_73 (J), Homines_53 (A1), I3_7 (C1), Jorgensen_64 (A1), KBG_62 (A1), KSSJEB_78 (A1), Kenmech_82 (A1), Koella_74 (F1), Kugel_63 (A1), Kykar_79 (A1), Lilpickle_45 (E), Lucky2013_77 (J), Mangeria_6 (C1), Marker_82 (F1), Marker_91 (F1), MaryBeth_59 (A1), MetalQZJ_58 (A1), MiaZeal_80 (J), MinionDave_75 (F1), Nekros_75 (J), Nibley_69 (J), NormanBulbieJr_80 (F1), Ogopogo_85 (F1), Pat3_42 (E), Peterson_65 (A1), Peterson_79 (A1), Petruccio_60 (A1), PhesterPhotato_83 (F1), Porcelain_79 (J), Priscilla_82 (F1), Puppet_75 (A1), Raid_77 (A1), STLscum_69 (A1), SarFire_60 (A1), Saskia_69 (A11), Shaboozey_75 (J), Simpliphy_43 (E), SkiPole_69 (A1), Spartacus_85 (F1), Squint_80 (J), Superphikiman_77 (J), Target_63 (A1), Target_79 (A1), Teodoridan_77 (A1), Thor_60 (A1), Tripl3t_83 (A1), Whouxphf_84 (F1), Zakhe101_23 (O), Zeeculate_77 (A1), Zeuska_66 (A1),

Start 64:

- Found in 322 of 386 (83.4%) of genes in pham
- Manual Annotations of this start: 4 of 353
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Kamryn_6 (C1), LittleE_79 (J), Patter_13 (C1), RoMag_5 (C1),

Start 65:

- Found in 9 of 386 (2.3%) of genes in pham
- Manual Annotations of this start: 3 of 353
- Called 33.3% of time when present
- Phage (with cluster) where this start called: BAKA_84 (J), KashFlow_74 (J), Minerva_82 (J),

Start 68:

- Found in 9 of 386 (2.3%) of genes in pham
- Manual Annotations of this start: 4 of 353
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Constella_66 (J), Duke13_83 (J), Marleymoo_69 (J), Pound_80 (J), Thibault_67 (J), Xiaokay_70 (J),

Start 71:

- Found in 2 of 386 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 353
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Eureka_44 (E),

Start 72:

- Found in 8 of 386 (2.1%) of genes in pham
- Manual Annotations of this start: 2 of 353

- Called 37.5% of time when present
- Phage (with cluster) where this start called: DLane_80 (F1), Goku_44 (E), Vortrix_21 (C1),

Start 73:

- Found in 2 of 386 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clank_80 (F), XFactor_74 (F1),

Start 75:

- Found in 20 of 386 (5.2%) of genes in pham
- Manual Annotations of this start: 16 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigCity_8 (C1), DTDevon_8 (C1), Dandelion_7 (C1), Drazdys_8 (C1), EggyFarm_8 (C1), FrayBell_8 (C1), Grasshills_8 (C1), InterFolia_8 (C1), JayJay_7 (C1), LinStu_7 (C1), LolaVinca_8 (C1), LordLeafolot_8 (C1), Nappy_6 (C1), NuevoMundo_7 (C1), PharkleMinkus_8 (C1), Pier_7 (C1), Sebata_7 (C1), Specks_8 (C1), StephanieG_7 (C1), Tyke_8 (C1),

Start 76:

- Found in 1 of 386 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo_48 (singleton),

Start 81:

- Found in 2 of 386 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 353
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brushbloom_82 (F1), Cheese puff_86 (F1),

Start 86:

- Found in 4 of 386 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ms6_78 (F1), ProMouse_60 (A1),

Summary by clusters:

There are 14 clusters represented in this pham: F1, F2, E, F5, F, F8, F4, J, singleton, O, A1, S, A11, C1,

Info for manual annotations of cluster A1:

- Start number 61 was manually annotated 4 times for cluster A1.
- Start number 63 was manually annotated 29 times for cluster A1.

Info for manual annotations of cluster C1:

- Start number 60 was manually annotated 1 time for cluster C1.
- Start number 61 was manually annotated 146 times for cluster C1.
- Start number 63 was manually annotated 2 times for cluster C1.

- Start number 64 was manually annotated 3 times for cluster C1.
- Start number 75 was manually annotated 16 times for cluster C1.

Info for manual annotations of cluster E:

- Start number 54 was manually annotated 2 times for cluster E.
- Start number 63 was manually annotated 10 times for cluster E.
- Start number 71 was manually annotated 1 time for cluster E.
- Start number 72 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster F1:

- Start number 28 was manually annotated 1 time for cluster F1.
- Start number 59 was manually annotated 1 time for cluster F1.
- Start number 60 was manually annotated 37 times for cluster F1.
- Start number 61 was manually annotated 38 times for cluster F1.
- Start number 63 was manually annotated 13 times for cluster F1.
- Start number 72 was manually annotated 1 time for cluster F1.
- Start number 73 was manually annotated 1 time for cluster F1.
- Start number 81 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 25 was manually annotated 1 time for cluster F2.
- Start number 60 was manually annotated 4 times for cluster F2.
- Start number 63 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

- Start number 60 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:

- Start number 61 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster J:

- Start number 20 was manually annotated 1 time for cluster J.
- Start number 63 was manually annotated 8 times for cluster J.
- Start number 64 was manually annotated 1 time for cluster J.
- Start number 65 was manually annotated 3 times for cluster J.
- Start number 68 was manually annotated 4 times for cluster J.

Info for manual annotations of cluster O:

- Start number 56 was manually annotated 1 time for cluster O.
- Start number 63 was manually annotated 2 times for cluster O.

Info for manual annotations of cluster S:

- Start number 61 was manually annotated 14 times for cluster S.

Gene Information:

Gene: Abbyshoes_80 Start: 47965, Stop: 47543, Start Num: 63

Candidate Starts for Abbyshoes_80:

(Start: 63 @47965 has 65 MA's), (Start: 64 @47953 has 4 MA's), (129, 47797), (147, 47725), (157, 47701), (194, 47629), (210, 47566),

Gene: Ablatia_13 Start: 3972, Stop: 4337, Start Num: 61

Candidate Starts for Ablatia_13:

(Start: 61 @3972 has 204 MA's), (Start: 64 @3987 has 4 MA's), (129, 4122), (166, 4200), (171, 4212), (173, 4215), (210, 4308),

Gene: Ading_13 Start: 3949, Stop: 4314, Start Num: 61

Candidate Starts for Ading_13:

(Start: 61 @3949 has 204 MA's), (Start: 64 @3964 has 4 MA's), (129, 4099), (166, 4177), (171, 4189), (173, 4192), (210, 4285),

Gene: Adlitam_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Adlitam_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Ajay_76 Start: 46873, Stop: 46502, Start Num: 63

Candidate Starts for Ajay_76:

(Start: 63 @46873 has 65 MA's), (Start: 64 @46861 has 4 MA's), (77, 46825), (109, 46783), (121, 46759), (129, 46717), (171, 46627), (173, 46624), (202, 46561), (211, 46525),

Gene: Alice_12 Start: 4384, Stop: 4734, Start Num: 61

Candidate Starts for Alice_12:

(Start: 61 @4384 has 204 MA's), (Start: 64 @4399 has 4 MA's), (129, 4519), (166, 4597), (171, 4609), (173, 4612), (210, 4705),

Gene: Amao_44 Start: 35225, Stop: 34809, Start Num: 63

Candidate Starts for Amao_44:

(Start: 54 @35246 has 2 MA's), (58, 35234), (Start: 63 @35225 has 65 MA's), (Start: 64 @35213 has 4 MA's), (129, 35039), (163, 34937), (184, 34895),

Gene: Amataga_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Amataga_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: ArcherS7_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for ArcherS7_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: ArcusAngelus_83 Start: 49676, Stop: 50101, Start Num: 61

Candidate Starts for ArcusAngelus_83:

(Start: 61 @49676 has 204 MA's), (100, 49751), (122, 49823), (129, 49856), (147, 49928), (157, 49952), (194, 50024), (210, 50087),

Gene: Ardmore_64 Start: 42842, Stop: 43237, Start Num: 60

Candidate Starts for Ardmore_64:

(Start: 60 @42842 has 43 MA's), (Start: 64 @42857 has 4 MA's), (156, 43079), (160, 43085), (171, 43109), (210, 43208),

Gene: Ariel_79 Start: 48566, Stop: 48168, Start Num: 63

Candidate Starts for Ariel_79:

(Start: 63 @48566 has 65 MA's), (Start: 64 @48554 has 4 MA's), (129, 48398), (162, 48314), (164, 48308), (166, 48305), (202, 48221),

Gene: Asterius_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Asterius_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Astraea_6 Start: 1759, Stop: 2151, Start Num: 61

Candidate Starts for Astraea_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: Atlantean_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Atlantean_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Audrick_14 Start: 3949, Stop: 4314, Start Num: 61

Candidate Starts for Audrick_14:

(Start: 61 @3949 has 204 MA's), (Start: 64 @3964 has 4 MA's), (129, 4099), (166, 4177), (171, 4189), (173, 4192), (210, 4285),

Gene: Ava3_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Ava3_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Avani_86 Start: 46087, Stop: 46437, Start Num: 60

Candidate Starts for Avani_86:

(Start: 60 @46087 has 43 MA's), (Start: 64 @46102 has 4 MA's), (129, 46237), (135, 46267), (152, 46303), (185, 46354),

Gene: BAKA_84 Start: 53281, Stop: 52940, Start Num: 65

Candidate Starts for BAKA_84:

(57, 53308), (Start: 65 @53281 has 3 MA's), (Start: 68 @53278 has 4 MA's), (94, 53242), (154, 53095), (166, 53074), (194, 53014),

Gene: BaboJay_42 Start: 35493, Stop: 35068, Start Num: 63

Candidate Starts for BaboJay_42:

(Start: 54 @35514 has 2 MA's), (58, 35502), (Start: 63 @35493 has 65 MA's), (Start: 64 @35481 has 4 MA's), (129, 35307), (165, 35205),

Gene: Babyland_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Babyland_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: BackyardAgain_12 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for BackyardAgain_12:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: BadAgartude_14 Start: 4738, Stop: 5088, Start Num: 61

Candidate Starts for BadAgartude_14:

(Start: 61 @4738 has 204 MA's), (Start: 64 @4753 has 4 MA's), (129, 4873), (166, 4951), (171, 4963), (173, 4966), (210, 5059),

Gene: BananaFence_14 Start: 4971, Stop: 5336, Start Num: 61

Candidate Starts for BananaFence_14:

(Start: 61 @4971 has 204 MA's), (Start: 64 @4986 has 4 MA's), (129, 5121), (166, 5199), (171, 5211), (173, 5214), (210, 5307),

Gene: Bangla1971_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Bangla1971_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Basquiat_13 Start: 3951, Stop: 4316, Start Num: 61

Candidate Starts for Basquiat_13:

(Start: 61 @3951 has 204 MA's), (Start: 64 @3966 has 4 MA's), (129, 4101), (166, 4179), (171, 4191), (173, 4194), (210, 4287),

Gene: Beelzebub_9 Start: 2804, Stop: 3181, Start Num: 61

Candidate Starts for Beelzebub_9:

(Start: 61 @2804 has 204 MA's), (Start: 64 @2816 has 4 MA's), (129, 2972), (166, 3050), (171, 3062), (173, 3065),

Gene: Belieber_12 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Belieber_12:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Bench_44 Start: 35114, Stop: 34752, Start Num: 63

Candidate Starts for Bench_44:

(Start: 63 @35114 has 65 MA's), (Start: 64 @35102 has 4 MA's), (129, 34982), (165, 34880), (210, 34775),

Gene: Bezza_10 Start: 4384, Stop: 4734, Start Num: 61

Candidate Starts for Bezza_10:

(Start: 61 @4384 has 204 MA's), (Start: 64 @4399 has 4 MA's), (129, 4519), (166, 4597), (171, 4609), (173, 4612), (210, 4705),

Gene: BigCity_8 Start: 2903, Stop: 3259, Start Num: 75

Candidate Starts for BigCity_8:

(Start: 75 @2903 has 16 MA's), (80, 2915), (92, 2942), (114, 2987), (129, 3050), (166, 3128), (171, 3140), (173, 3143),

Gene: Bipolarisk_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Bipolarisk_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Blackbrain_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Blackbrain_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Blackdragon_12 Start: 4007, Stop: 4381, Start Num: 61

Candidate Starts for Blackdragon_12:

(Start: 61 @4007 has 204 MA's), (Start: 64 @4022 has 4 MA's), (77, 4058), (109, 4100), (121, 4124), (129, 4166), (171, 4256), (173, 4259), (210, 4352),

Gene: Blarby_87 Start: 46989, Stop: 47345, Start Num: 60

Candidate Starts for Blarby_87:

(Start: 60 @46989 has 43 MA's), (Start: 64 @47004 has 4 MA's), (129, 47124), (206, 47295), (210, 47316),

Gene: Blexus_75 Start: 48431, Stop: 48811, Start Num: 60

Candidate Starts for Blexus_75:

(Start: 60 @48431 has 43 MA's), (Start: 64 @48446 has 4 MA's), (91, 48506), (122, 48578), (129, 48611), (210, 48788),

Gene: BobaPhett_81 Start: 50730, Stop: 51155, Start Num: 61

Candidate Starts for BobaPhett_81:

(Start: 61 @50730 has 204 MA's), (Start: 64 @50745 has 4 MA's), (129, 50925), (162, 51009), (164, 51015), (166, 51018), (202, 51102),

Gene: Bobby_76 Start: 51549, Stop: 51166, Start Num: 63

Candidate Starts for Bobby_76:

(32, 51630), (50, 51588), (51, 51585), (Start: 63 @51549 has 65 MA's), (Start: 64 @51537 has 4 MA's), (91, 51477), (122, 51405), (129, 51372), (149, 51312), (158, 51297), (170, 51273), (188, 51240),

Gene: Bonray_14 Start: 5044, Stop: 5394, Start Num: 61

Candidate Starts for Bonray_14:

(Start: 61 @5044 has 204 MA's), (Start: 64 @5059 has 4 MA's), (129, 5179), (166, 5257), (171, 5269), (173, 5272), (210, 5365),

Gene: Bread_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Bread_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Breeniome_14 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Breeniome_14:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Brocalys_71 Start: 46210, Stop: 46635, Start Num: 61

Candidate Starts for Brocalys_71:

(Start: 61 @46210 has 204 MA's), (Start: 64 @46225 has 4 MA's), (129, 46405), (162, 46489), (164, 46495), (166, 46498), (202, 46582),

Gene: BronnyJames_76 Start: 47637, Stop: 47275, Start Num: 63

Candidate Starts for BronnyJames_76:

(Start: 63 @47637 has 65 MA's), (Start: 64 @47625 has 4 MA's), (129, 47505), (162, 47421), (164, 47415), (166, 47412), (202, 47328),

Gene: BronnyJames_68 Start: 45323, Stop: 44922, Start Num: 61

Candidate Starts for BronnyJames_68:

(Start: 61 @45323 has 204 MA's), (Start: 64 @45311 has 4 MA's), (106, 45227), (111, 45209), (129, 45131), (166, 45053), (171, 45041), (173, 45038), (210, 44945),

Gene: Brushbloom_82 Start: 49907, Stop: 50308, Start Num: 81

Candidate Starts for Brushbloom_82:

(Start: 81 @49907 has 2 MA's), (90, 49922), (129, 50057), (144, 50120), (203, 50255), (208, 50288),

Gene: Bubbles123_74 Start: 48058, Stop: 48471, Start Num: 60

Candidate Starts for Bubbles123_74:

(Start: 60 @48058 has 43 MA's), (Start: 64 @48073 has 4 MA's), (129, 48229), (156, 48316), (160, 48322), (171, 48346), (201, 48409), (210, 48448),

Gene: Burrough_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Burrough_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Bxz1_6 Start: 1759, Stop: 2151, Start Num: 61

Candidate Starts for Bxz1_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: Cabrinians_78 Start: 48130, Stop: 48555, Start Num: 61

Candidate Starts for Cabrinians_78:

(Start: 61 @48130 has 204 MA's), (Start: 64 @48145 has 4 MA's), (129, 48325), (162, 48409), (164, 48415), (166, 48418), (202, 48502),

Gene: Cactojaque_12 Start: 3900, Stop: 4265, Start Num: 61

Candidate Starts for Cactojaque_12:

(Start: 61 @3900 has 204 MA's), (Start: 64 @3915 has 4 MA's), (129, 4050), (166, 4128), (171, 4140), (173, 4143), (210, 4236),

Gene: Cali_14 Start: 5699, Stop: 6064, Start Num: 61

Candidate Starts for Cali_14:

(Start: 61 @5699 has 204 MA's), (Start: 64 @5714 has 4 MA's), (69, 5723), (129, 5849), (166, 5927), (171, 5939), (173, 5942), (210, 6035),

Gene: Capablanca_14 Start: 5050, Stop: 5415, Start Num: 61

Candidate Starts for Capablanca_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5200), (166, 5278), (171, 5290), (173, 5293), (210, 5386),

Gene: CaptainTrips_79 Start: 47890, Stop: 48285, Start Num: 63

Candidate Starts for CaptainTrips_79:

(Start: 63 @47890 has 65 MA's), (Start: 64 @47902 has 4 MA's), (129, 48037), (148, 48115), (173, 48166), (184, 48190), (194, 48208), (200, 48223), (210, 48262),

Gene: Caravan_16 Start: 5077, Stop: 5427, Start Num: 61

Candidate Starts for Caravan_16:

(Start: 61 @5077 has 204 MA's), (Start: 64 @5092 has 4 MA's), (129, 5212), (166, 5290), (171, 5302), (173, 5305), (210, 5398),

Gene: Catera_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Catera_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Chargie21_13 Start: 3951, Stop: 4316, Start Num: 61

Candidate Starts for Chargie21_13:

(Start: 61 @3951 has 204 MA's), (Start: 64 @3966 has 4 MA's), (129, 4101), (166, 4179), (171, 4191), (173, 4194), (210, 4287),

Gene: CharlieB_15 Start: 4563, Stop: 4913, Start Num: 61

Candidate Starts for CharlieB_15:

(Start: 61 @4563 has 204 MA's), (Start: 64 @4578 has 4 MA's), (129, 4698), (166, 4776), (171, 4788), (173, 4791), (210, 4884),

Gene: ChaylaJr_13 Start: 3993, Stop: 4358, Start Num: 61

Candidate Starts for ChaylaJr_13:

(Start: 61 @3993 has 204 MA's), (Start: 64 @4008 has 4 MA's), (129, 4143), (166, 4221), (171, 4233), (173, 4236), (210, 4329),

Gene: Che8_92 Start: 51445, Stop: 51828, Start Num: 63

Candidate Starts for Che8_92:

(15, 51271), (18, 51280), (22, 51304), (Start: 25 @51322 has 1 MA's), (52, 51415), (55, 51424), (Start: 63 @51445 has 65 MA's), (129, 51631), (142, 51661), (161, 51697), (192, 51748),

Gene: Che9d_91 Start: 48600, Stop: 49028, Start Num: 63

Candidate Starts for Che9d_91:

(Start: 63 @48600 has 65 MA's), (Start: 64 @48612 has 4 MA's), (86, 48666), (129, 48810),

Gene: Cheesepuff_86 Start: 48067, Stop: 48468, Start Num: 81

Candidate Starts for Cheesepuff_86:

(Start: 81 @48067 has 2 MA's), (90, 48082), (129, 48217), (144, 48280), (203, 48415), (208, 48448),

Gene: Chevrolet_86 Start: 49677, Stop: 50102, Start Num: 61

Candidate Starts for Chevrolet_86:

(Start: 61 @49677 has 204 MA's), (100, 49752), (122, 49824), (129, 49857), (147, 49929), (157, 49953), (194, 50025), (210, 50088),

Gene: ChickenPhender_13 Start: 3951, Stop: 4316, Start Num: 61

Candidate Starts for ChickenPhender_13:

(Start: 61 @3951 has 204 MA's), (Start: 64 @3966 has 4 MA's), (129, 4101), (166, 4179), (171, 4191), (173, 4194), (210, 4287),

Gene: Chomp_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Chomp_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: ChosenOne_46 Start: 35277, Stop: 34882, Start Num: 63

Candidate Starts for ChosenOne_46:

(24, 35379), (26, 35373), (33, 35343), (Start: 63 @35277 has 65 MA's), (Start: 64 @35265 has 4 MA's), (129, 35109), (134, 35076), (141, 35055), (175, 34989), (210, 34905),

Gene: ChotaBhai_44 Start: 35156, Stop: 34737, Start Num: 63

Candidate Starts for ChotaBhai_44:

(Start: 54 @35177 has 2 MA's), (58, 35165), (Start: 63 @35156 has 65 MA's), (Start: 64 @35144 has 4 MA's), (129, 34970), (165, 34868),

Gene: CindyLou_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for CindyLou_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Clank_80 Start: 46512, Stop: 46865, Start Num: 73

Candidate Starts for Clank_80:

(Start: 73 @46512 has 1 MA's), (79, 46527), (129, 46647), (133, 46689), (189, 46785), (210, 46842),

Gene: Clarkson_8 Start: 2580, Stop: 2957, Start Num: 61

Candidate Starts for Clarkson_8:

(Start: 61 @2580 has 204 MA's), (Start: 64 @2592 has 4 MA's), (129, 2748), (166, 2826), (171, 2838), (173, 2841),

Gene: Clifton_72 Start: 46816, Stop: 47196, Start Num: 61

Candidate Starts for Clifton_72:

(Start: 61 @46816 has 204 MA's), (Start: 64 @46831 has 4 MA's), (129, 46987), (166, 47065), (171, 47077), (173, 47080), (210, 47173),

Gene: Constella_66 Start: 46926, Stop: 46588, Start Num: 68

Candidate Starts for Constella_66:

(57, 46956), (Start: 65 @46929 has 3 MA's), (Start: 68 @46926 has 4 MA's), (94, 46890), (154, 46743), (166, 46722), (194, 46662),

Gene: Corazon_7 Start: 2530, Stop: 2910, Start Num: 61

Candidate Starts for Corazon_7:

(Start: 61 @2530 has 204 MA's), (Start: 64 @2545 has 4 MA's), (129, 2701), (166, 2779), (171, 2791), (173, 2794),

Gene: Cornie_74 Start: 46648, Stop: 46998, Start Num: 61

Candidate Starts for Cornie_74:

(Start: 61 @46648 has 204 MA's), (Start: 64 @46663 has 4 MA's), (166, 46861), (171, 46873), (173, 46876), (210, 46969),

Gene: Corvo_62 Start: 41848, Stop: 41459, Start Num: 63

Candidate Starts for Corvo_62:

(12, 42049), (41, 41905), (44, 41902), (Start: 63 @41848 has 65 MA's), (Start: 64 @41836 has 4 MA's), (117, 41749), (129, 41716), (147, 41638), (157, 41614), (194, 41542),

Gene: Crumble_76 Start: 44855, Stop: 45280, Start Num: 61

Candidate Starts for Crumble_76:

(Start: 61 @44855 has 204 MA's), (Start: 64 @44870 has 4 MA's), (129, 45050), (162, 45134), (164, 45140), (166, 45143), (202, 45227),

Gene: DLane_79 Start: 49141, Stop: 49515, Start Num: 61

Candidate Starts for DLane_79:

(Start: 61 @49141 has 204 MA's), (Start: 64 @49156 has 4 MA's), (129, 49291), (154, 49360), (194, 49441),

Gene: DLane_80 Start: 49512, Stop: 49868, Start Num: 72

Candidate Starts for DLane_80:

(Start: 72 @49512 has 2 MA's), (79, 49524), (129, 49644), (133, 49686), (189, 49782), (210, 49839),

Gene: DRBy19_83 Start: 50545, Stop: 50925, Start Num: 61

Candidate Starts for DRBy19_83:

(Start: 61 @50545 has 204 MA's), (Start: 64 @50560 has 4 MA's), (129, 50716), (166, 50794), (171, 50806), (173, 50809), (210, 50902),

Gene: DTDevon_8 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for DTDevon_8:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: DaWorst_79 Start: 47793, Stop: 48188, Start Num: 61

Candidate Starts for DaWorst_79:

(Start: 61 @47793 has 204 MA's), (Start: 64 @47808 has 4 MA's), (129, 47928), (147, 48000), (157, 48024), (194, 48096), (212, 48168),

Gene: Daffodil_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Daffodil_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Dandelion_7 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for Dandelion_7:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: Dante_78 Start: 50103, Stop: 50483, Start Num: 60

Candidate Starts for Dante_78:

(Start: 60 @50103 has 43 MA's), (Start: 64 @50118 has 4 MA's), (91, 50178), (122, 50250), (129, 50283), (210, 50460),

Gene: Darko_13 Start: 4940, Stop: 5305, Start Num: 61

Candidate Starts for Darko_13:

(Start: 61 @4940 has 204 MA's), (Start: 64 @4955 has 4 MA's), (129, 5090), (166, 5168), (171, 5180), (173, 5183), (210, 5276),

Gene: Delilah_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Delilah_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Delylah_16 Start: 5077, Stop: 5427, Start Num: 61

Candidate Starts for Delylah_16:

(Start: 61 @5077 has 204 MA's), (Start: 64 @5092 has 4 MA's), (129, 5212), (166, 5290), (171, 5302), (173, 5305), (210, 5398),

Gene: Derek_14 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Derek_14:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Dietrick_12 Start: 3968, Stop: 4333, Start Num: 61

Candidate Starts for Dietrick_12:

(Start: 61 @3968 has 204 MA's), (Start: 64 @3983 has 4 MA's), (129, 4118), (166, 4196), (171, 4208), (173, 4211), (210, 4304),

Gene: DirtMonster_6 Start: 2758, Stop: 3150, Start Num: 61

Candidate Starts for DirtMonster_6:

(Start: 61 @2758 has 204 MA's), (Start: 64 @2770 has 4 MA's), (84, 2818), (88, 2824), (117, 2887), (129, 2941), (166, 3019), (171, 3031), (173, 3034),

Gene: DoctorDiddles_44 Start: 35192, Stop: 34773, Start Num: 63

Candidate Starts for DoctorDiddles_44:

(Start: 54 @35213 has 2 MA's), (58, 35201), (Start: 63 @35192 has 65 MA's), (Start: 64 @35180 has 4 MA's), (129, 35006), (165, 34904),

Gene: Donkeykong_83 Start: 49734, Stop: 50111, Start Num: 61

Candidate Starts for Donkeykong_83:

(Start: 61 @49734 has 204 MA's), (Start: 64 @49749 has 4 MA's), (129, 49884), (162, 49968), (164, 49974), (166, 49977), (202, 50061),

Gene: Dorothy_81 Start: 50224, Stop: 50574, Start Num: 60

Candidate Starts for Dorothy_81:

(Start: 60 @50224 has 43 MA's), (Start: 64 @50239 has 4 MA's), (129, 50374), (207, 50551),

Gene: DrPhinkDaddy_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for DrPhinkDaddy_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Drazdys_8 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for Drazdys_8:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: Dreamboat_79 Start: 46273, Stop: 45872, Start Num: 61

Candidate Starts for Dreamboat_79:

(Start: 61 @46273 has 204 MA's), (129, 46081), (166, 46003), (171, 45991), (173, 45988), (210, 45895),

Gene: Duckfeet_14 Start: 4700, Stop: 5074, Start Num: 61

Candidate Starts for Duckfeet_14:

(Start: 61 @4700 has 204 MA's), (Start: 64 @4715 has 4 MA's), (69, 4724), (77, 4751), (109, 4793), (121, 4817), (129, 4859), (171, 4949), (173, 4952), (210, 5045),

Gene: Duke13_83 Start: 52490, Stop: 52152, Start Num: 68

Candidate Starts for Duke13_83:

(57, 52520), (Start: 65 @52493 has 3 MA's), (Start: 68 @52490 has 4 MA's), (94, 52454), (154, 52307), (166, 52286), (194, 52226),

Gene: Dussy_79 Start: 47985, Stop: 47563, Start Num: 63

Candidate Starts for Dussy_79:

(Start: 63 @47985 has 65 MA's), (Start: 64 @47973 has 4 MA's), (129, 47817), (147, 47745), (157, 47721), (194, 47649), (210, 47586),

Gene: Dylan_22 Start: 10677, Stop: 11069, Start Num: 63

Candidate Starts for Dylan_22:

(Start: 63 @10677 has 65 MA's), (129, 10809), (148, 10893), (173, 10947), (184, 10971), (190, 10983), (194, 10989), (202, 11013), (206, 11028), (210, 11046),

Gene: ET08_12 Start: 4991, Stop: 5341, Start Num: 61

Candidate Starts for ET08_12:

(Start: 61 @4991 has 204 MA's), (Start: 64 @5006 has 4 MA's), (129, 5126), (166, 5204), (171, 5216), (173, 5219), (210, 5312),

Gene: EasyJones_13 Start: 3951, Stop: 4316, Start Num: 61

Candidate Starts for EasyJones_13:

(Start: 61 @3951 has 204 MA's), (Start: 64 @3966 has 4 MA's), (129, 4101), (166, 4179), (171, 4191), (173, 4194), (210, 4287),

Gene: EggyFarm_8 Start: 2903, Stop: 3259, Start Num: 75

Candidate Starts for EggyFarm_8:

(Start: 75 @2903 has 16 MA's), (80, 2915), (92, 2942), (114, 2987), (129, 3050), (166, 3128), (171, 3140), (173, 3143),

Gene: Eish_82 Start: 49234, Stop: 49629, Start Num: 59

Candidate Starts for Eish_82:

(Start: 59 @49234 has 1 MA's), (Start: 64 @49249 has 4 MA's), (84, 49297), (88, 49303), (117, 49366), (129, 49420), (166, 49498), (171, 49510), (173, 49513),

Gene: Elite2014_45 Start: 35276, Stop: 34881, Start Num: 63

Candidate Starts for Elite2014_45:

(24, 35378), (26, 35372), (33, 35342), (Start: 63 @35276 has 65 MA's), (Start: 64 @35264 has 4 MA's), (129, 35108), (134, 35075), (141, 35054), (175, 34988), (210, 34904),

Gene: EmToTheThree_17 Start: 6464, Stop: 6814, Start Num: 61

Candidate Starts for EmToTheThree_17:

(Start: 61 @6464 has 204 MA's), (Start: 64 @6479 has 4 MA's), (129, 6599), (166, 6677), (171, 6689), (173, 6692), (210, 6785),

Gene: Emma_82 Start: 47609, Stop: 47959, Start Num: 60

Candidate Starts for Emma_82:

(27, 47513), (Start: 60 @47609 has 43 MA's), (Start: 64 @47624 has 4 MA's), (129, 47744),

Gene: EmmaElysia_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for EmmaElysia_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Erdmann_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Erdmann_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: ErnieJ_17 Start: 5141, Stop: 5506, Start Num: 61

Candidate Starts for ErnieJ_17:

(Start: 61 @5141 has 204 MA's), (Start: 64 @5156 has 4 MA's), (129, 5291), (166, 5369), (171, 5381), (173, 5384), (210, 5477),

Gene: Essence_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Essence_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Eureka_44 Start: 36100, Stop: 35735, Start Num: 71

Candidate Starts for Eureka_44:

(67, 36112), (Start: 71 @36100 has 1 MA's), (Start: 72 @36091 has 2 MA's), (79, 36079), (129, 35959), (133, 35917), (189, 35821), (210, 35764),

Gene: Ewok_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Ewok_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Eyeball_79 Start: 47899, Stop: 47528, Start Num: 63

Candidate Starts for Eyeball_79:

(Start: 63 @47899 has 65 MA's), (Start: 64 @47887 has 4 MA's), (77, 47851), (109, 47809), (121, 47785), (129, 47743), (171, 47653), (173, 47650), (202, 47587), (211, 47551),

Gene: Fancypants_92 Start: 52024, Stop: 52425, Start Num: 63

Candidate Starts for Fancypants_92:

(3, 51730), (4, 51763), (15, 51850), (18, 51859), (22, 51883), (Start: 25 @51901 has 1 MA's), (52, 51994), (55, 52003), (Start: 63 @52024 has 65 MA's), (105, 52123), (115, 52156), (156, 52261), (176, 52297), (185, 52318), (202, 52357),

Gene: FeliMaine_8 Start: 2581, Stop: 2958, Start Num: 61

Candidate Starts for FeliMaine_8:

(Start: 61 @2581 has 204 MA's), (Start: 64 @2593 has 4 MA's), (129, 2749), (166, 2827), (171, 2839), (173, 2842),

Gene: Filuzino_80 Start: 50124, Stop: 50459, Start Num: 60

Candidate Starts for Filuzino_80:

(5, 49893), (7, 49920), (8, 49932), (11, 49938), (13, 49944), (17, 49980), (Start: 60 @50124 has 43 MA's), (Start: 64 @50139 has 4 MA's), (129, 50259), (182, 50361), (193, 50382), (202, 50406),

Gene: Finkle_72 Start: 43792, Stop: 44199, Start Num: 61

Candidate Starts for Finkle_72:

(Start: 61 @43792 has 204 MA's), (70, 43819), (93, 43861), (131, 43975), (194, 44122),

Gene: Firehouse51_75 Start: 49196, Stop: 49573, Start Num: 61

Candidate Starts for Firehouse51_75:

(31, 49100), (Start: 61 @49196 has 204 MA's), (Start: 64 @49211 has 4 MA's), (129, 49346), (134, 49379), (141, 49400), (175, 49466), (210, 49550),

Gene: Fixie_12 Start: 3951, Stop: 4316, Start Num: 61

Candidate Starts for Fixie_12:

(Start: 61 @3951 has 204 MA's), (Start: 64 @3966 has 4 MA's), (129, 4101), (166, 4179), (171, 4191), (173, 4194), (210, 4287),

Gene: Flabslab_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Flabslab_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Flathead_78 Start: 47777, Stop: 48157, Start Num: 61

Candidate Starts for Flathead_78:

(Start: 61 @47777 has 204 MA's), (Start: 64 @47792 has 4 MA's), (129, 47927), (162, 48011), (164, 48017), (166, 48020), (202, 48104),

Gene: Fludd_13 Start: 3952, Stop: 4317, Start Num: 61

Candidate Starts for Fludd_13:

(Start: 61 @3952 has 204 MA's), (Start: 64 @3967 has 4 MA's), (129, 4102), (166, 4180), (171, 4192), (173, 4195), (210, 4288),

Gene: FoxtrotP1_15 Start: 5609, Stop: 5959, Start Num: 61

Candidate Starts for FoxtrotP1_15:

(Start: 61 @5609 has 204 MA's), (Start: 64 @5624 has 4 MA's), (129, 5744), (166, 5822), (171, 5834), (173, 5837), (210, 5930),

Gene: FrayBell_8 Start: 2465, Stop: 2821, Start Num: 75

Candidate Starts for FrayBell_8:

(Start: 75 @2465 has 16 MA's), (80, 2477), (92, 2504), (114, 2549), (129, 2612), (166, 2690), (171, 2702), (173, 2705),

Gene: FreddyB_88 Start: 49777, Stop: 50202, Start Num: 61

Candidate Starts for FreddyB_88:

(Start: 61 @49777 has 204 MA's), (Start: 64 @49792 has 4 MA's), (129, 49972), (162, 50056), (164, 50062), (166, 50065), (202, 50149),

Gene: Fruitloop_74 Start: 47706, Stop: 48077, Start Num: 60

Candidate Starts for Fruitloop_74:

(27, 47610), (Start: 60 @47706 has 43 MA's), (Start: 64 @47721 has 4 MA's), (129, 47841), (146, 47895), (148, 47904), (172, 47952), (176, 47958), (193, 47994), (200, 48012), (210, 48048),

Gene: FudgeTart_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for FudgeTart_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Fushigi_75 Start: 45357, Stop: 44953, Start Num: 63

Candidate Starts for Fushigi_75:

(Start: 63 @45357 has 65 MA's), (129, 45159), (144, 45108), (156, 45084), (171, 45057), (210, 44976),

Gene: Gabriel_14 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Gabriel_14:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Gamgam_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Gamgam_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Gandalph_77 Start: 45404, Stop: 45799, Start Num: 61

Candidate Starts for Gandalph_77:

(Start: 61 @45404 has 204 MA's), (Start: 64 @45419 has 4 MA's), (129, 45539), (147, 45617), (157, 45641), (194, 45713),

Gene: Gattaca_9 Start: 2524, Stop: 2901, Start Num: 61

Candidate Starts for Gattaca_9:

(Start: 61 @2524 has 204 MA's), (Start: 64 @2539 has 4 MA's), (129, 2674), (134, 2707), (141, 2728), (175, 2794), (210, 2878),

Gene: Ghost_14 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Ghost_14:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Girr_75 Start: 48247, Stop: 48597, Start Num: 60

Candidate Starts for Girr_75:

(Start: 60 @48247 has 43 MA's), (Start: 64 @48262 has 4 MA's), (129, 48382),

Gene: Gizmo_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Gizmo_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: GlutenPhree_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for GlutenPhree_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Goku_44 Start: 35820, Stop: 35464, Start Num: 72

Candidate Starts for Goku_44:

(67, 35841), (Start: 71 @35829 has 1 MA's), (Start: 72 @35820 has 2 MA's), (79, 35808), (129, 35688), (133, 35646), (189, 35550), (210, 35493),

Gene: Gonephishing_73 Start: 48084, Stop: 47683, Start Num: 61

Candidate Starts for Gonephishing_73:

(Start: 61 @48084 has 204 MA's), (Start: 64 @48072 has 4 MA's), (106, 47988), (111, 47970), (129, 47892), (166, 47814), (171, 47802), (173, 47799), (210, 47706),

Gene: GoongGoong_8 Start: 2533, Stop: 2910, Start Num: 61

Candidate Starts for GoongGoong_8:

(Start: 61 @2533 has 204 MA's), (Start: 64 @2548 has 4 MA's), (129, 2683), (134, 2716), (141, 2737), (175, 2803), (210, 2887),

Gene: Gorge_80 Start: 49405, Stop: 49830, Start Num: 61

Candidate Starts for Gorge_80:

(Start: 61 @49405 has 204 MA's), (Start: 64 @49420 has 4 MA's), (129, 49600), (162, 49684), (164, 49690), (166, 49693), (202, 49777),

Gene: Grasshills_8 Start: 2903, Stop: 3259, Start Num: 75

Candidate Starts for Grasshills_8:

(Start: 75 @2903 has 16 MA's), (80, 2915), (92, 2942), (114, 2987), (129, 3050), (166, 3128), (171, 3140), (173, 3143),

Gene: Guwapp_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Guwapp_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Gyzlar_56 Start: 38713, Stop: 38327, Start Num: 63

Candidate Starts for Gyzlar_56:

(Start: 63 @38713 has 65 MA's), (Start: 64 @38701 has 4 MA's), (129, 38581), (147, 38509), (157, 38485), (194, 38413), (210, 38350),

Gene: Hannaconda_73 Start: 46951, Stop: 46607, Start Num: 63

Candidate Starts for Hannaconda_73:

(Start: 63 @46951 has 65 MA's), (Start: 64 @46939 has 4 MA's), (129, 46819), (171, 46729), (173, 46726), (210, 46633),

Gene: Hegedechwinu_80 Start: 46978, Stop: 47358, Start Num: 61

Candidate Starts for Hegedechwinu_80:

(Start: 61 @46978 has 204 MA's), (Start: 64 @46993 has 4 MA's), (129, 47128), (162, 47212), (164, 47218), (166, 47221), (202, 47305),

Gene: Homines_53 Start: 37028, Stop: 36645, Start Num: 63

Candidate Starts for Homines_53:

(9, 37238), (14, 37229), (43, 37085), (46, 37082), (Start: 63 @37028 has 65 MA's), (Start: 64 @37016 has 4 MA's), (87, 36968), (89, 36962), (119, 36899), (129, 36845), (173, 36743), (183, 36722), (198, 36698),

Gene: Huphlepuuff_7 Start: 2307, Stop: 2687, Start Num: 61

Candidate Starts for Huphlepuuff_7:

(Start: 61 @2307 has 204 MA's), (Start: 64 @2322 has 4 MA's), (129, 2478), (166, 2556), (171, 2568), (173, 2571),

Gene: HyRo_11 Start: 4892, Stop: 5257, Start Num: 61

Candidate Starts for HyRo_11:

(Start: 61 @4892 has 204 MA's), (Start: 64 @4907 has 4 MA's), (129, 5042), (166, 5120), (171, 5132), (173, 5135), (210, 5228),

Gene: I3_7 Start: 2438, Stop: 2830, Start Num: 63

Candidate Starts for I3_7:

(Start: 63 @2438 has 65 MA's), (83, 2498), (87, 2504), (110, 2564), (113, 2567), (129, 2621), (165, 2723),

Gene: IMpilo_74 Start: 45725, Stop: 46135, Start Num: 60

Candidate Starts for IMpilo_74:

(Start: 60 @45725 has 43 MA's), (Start: 64 @45740 has 4 MA's), (91, 45800), (122, 45872), (129, 45905), (163, 46001), (195, 46067), (205, 46091), (210, 46112),

Gene: InigoMontoya_14 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for InigoMontoya_14:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: InterFolia_8 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for InterFolia_8:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: Inventum_78 Start: 48409, Stop: 48759, Start Num: 60

Candidate Starts for Inventum_78:

(Start: 60 @48409 has 43 MA's), (Start: 64 @48424 has 4 MA's), (129, 48559), (207, 48736),

Gene: IrishSherpFalk_79 Start: 48781, Stop: 49194, Start Num: 60

Candidate Starts for IrishSherpFalk_79:

(Start: 60 @48781 has 43 MA's), (Start: 64 @48796 has 4 MA's), (129, 48952), (156, 49039), (160, 49045), (171, 49069), (201, 49132), (210, 49171),

Gene: Issimir_14 Start: 5044, Stop: 5394, Start Num: 61

Candidate Starts for Issimir_14:

(Start: 61 @5044 has 204 MA's), (Start: 64 @5059 has 4 MA's), (129, 5179), (166, 5257), (171, 5269), (173, 5272), (210, 5365),

Gene: Izajani_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Izajani_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: JPickles_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for JPickles_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Jabbawokkie_88 Start: 46909, Stop: 47265, Start Num: 60

Candidate Starts for Jabbawokkie_88:

(Start: 60 @46909 has 43 MA's), (Start: 64 @46924 has 4 MA's), (129, 47044), (206, 47215), (210, 47236),

Gene: JalFarm20_87 Start: 48995, Stop: 49375, Start Num: 61

Candidate Starts for JalFarm20_87:

(31, 48899), (Start: 61 @48995 has 204 MA's), (Start: 64 @49010 has 4 MA's), (129, 49145), (162, 49229), (164, 49235), (166, 49238), (202, 49322),

Gene: James_80 Start: 49880, Stop: 50260, Start Num: 61

Candidate Starts for James_80:

(Start: 61 @49880 has 204 MA's), (Start: 64 @49895 has 4 MA's), (129, 50051), (166, 50129), (171, 50141), (173, 50144), (210, 50237),

Gene: Janiyra_13 Start: 3949, Stop: 4314, Start Num: 61

Candidate Starts for Janiyra_13:

(Start: 61 @3949 has 204 MA's), (Start: 64 @3964 has 4 MA's), (129, 4099), (166, 4177), (171, 4189), (173, 4192), (210, 4285),

Gene: Jant_80 Start: 46925, Stop: 47389, Start Num: 60

Candidate Starts for Jant_80:

(Start: 60 @46925 has 43 MA's), (Start: 64 @46940 has 4 MA's), (86, 46994), (111, 47087), (156, 47234), (160, 47240), (171, 47264), (201, 47327), (210, 47366),

Gene: Jacob_79 Start: 49477, Stop: 49857, Start Num: 61

Candidate Starts for Jacob_79:

(Start: 61 @49477 has 204 MA's), (Start: 64 @49492 has 4 MA's), (129, 49648), (166, 49726), (171, 49738), (173, 49741), (210, 49834),

Gene: Jasper_78 Start: 46159, Stop: 45758, Start Num: 61

Candidate Starts for Jasper_78:

(Start: 61 @46159 has 204 MA's), (129, 45967), (166, 45889), (171, 45877), (173, 45874), (210, 45781),

Gene: JayJay_7 Start: 1993, Stop: 2349, Start Num: 75

Candidate Starts for JayJay_7:

(58, 1942), (Start: 75 @1993 has 16 MA's), (80, 2005), (92, 2032), (114, 2077), (129, 2140), (166, 2218), (171, 2230), (173, 2233),

Gene: Jaygup_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Jaygup_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Jedediah_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Jedediah_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Jemmno_12 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Jemmno_12:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Jessibeth14_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Jessibeth14_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Jezreel_6 Start: 1759, Stop: 2151, Start Num: 61

Candidate Starts for Jezreel_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: JoieB_8 Start: 2529, Stop: 2909, Start Num: 61

Candidate Starts for JoieB_8:

(Start: 61 @2529 has 204 MA's), (Start: 64 @2544 has 4 MA's), (129, 2700), (166, 2778), (171, 2790), (173, 2793),

Gene: Jorgensen_64 Start: 41112, Stop: 40717, Start Num: 63

Candidate Starts for Jorgensen_64:

(12, 41313), (42, 41169), (45, 41166), (Start: 63 @41112 has 65 MA's), (Start: 64 @41100 has 4 MA's), (129, 40944), (165, 40842),

Gene: JulietS_6 Start: 1759, Stop: 2151, Start Num: 61

Candidate Starts for JulietS_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: JustHall_13 Start: 4965, Stop: 5330, Start Num: 61

Candidate Starts for JustHall_13:

(Start: 61 @4965 has 204 MA's), (Start: 64 @4980 has 4 MA's), (129, 5115), (166, 5193), (171, 5205), (173, 5208), (210, 5301),

Gene: KBG_62 Start: 42879, Stop: 42511, Start Num: 63

Candidate Starts for KBG_62:

(38, 42936), (40, 42933), (Start: 63 @42879 has 65 MA's), (Start: 64 @42867 has 4 MA's), (129, 42732), (141, 42672), (160, 42636), (185, 42588), (187, 42585), (210, 42522),

Gene: KSSJEB_78 Start: 46842, Stop: 46471, Start Num: 63

Candidate Starts for KSSJEB_78:

(Start: 63 @46842 has 65 MA's), (Start: 64 @46830 has 4 MA's), (77, 46794), (109, 46752), (121, 46728), (129, 46686), (171, 46596), (173, 46593), (202, 46530), (211, 46494),

Gene: Kamryn_6 Start: 1771, Stop: 2151, Start Num: 64

Candidate Starts for Kamryn_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: KashFlow_74 Start: 47820, Stop: 47479, Start Num: 65

Candidate Starts for KashFlow_74:

(57, 47847), (Start: 65 @47820 has 3 MA's), (Start: 68 @47817 has 4 MA's), (94, 47781), (154, 47634), (166, 47613), (194, 47553),

Gene: Kboogie_13 Start: 3968, Stop: 4333, Start Num: 61

Candidate Starts for Kboogie_13:

(Start: 61 @3968 has 204 MA's), (Start: 64 @3983 has 4 MA's), (129, 4118), (166, 4196), (171, 4208), (173, 4211), (210, 4304),

Gene: Kenmech_82 Start: 49111, Stop: 48689, Start Num: 63

Candidate Starts for Kenmech_82:

(Start: 63 @49111 has 65 MA's), (Start: 64 @49099 has 4 MA's), (129, 48943), (147, 48871), (157, 48847), (194, 48775), (210, 48712),

Gene: Kenuha5_75 Start: 48762, Stop: 49157, Start Num: 61

Candidate Starts for Kenuha5_75:

(Start: 61 @48762 has 204 MA's), (Start: 64 @48777 has 4 MA's), (129, 48897), (147, 48975), (157, 48999), (194, 49071),

Gene: Khaleesi_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Khaleesi_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Kingsley_82 Start: 50469, Stop: 50837, Start Num: 61

Candidate Starts for Kingsley_82:

(Start: 61 @50469 has 204 MA's), (Start: 64 @50484 has 4 MA's), (129, 50604), (154, 50673), (166, 50694), (194, 50754), (209, 50811),

Gene: Koella_70 Start: 44029, Stop: 44454, Start Num: 61

Candidate Starts for Koella_70:

(Start: 61 @44029 has 204 MA's), (Start: 64 @44044 has 4 MA's), (129, 44224), (162, 44308), (164, 44314), (166, 44317), (202, 44401),

Gene: Koella_74 Start: 45585, Stop: 45968, Start Num: 63

Candidate Starts for Koella_74:

(15, 45411), (18, 45420), (22, 45444), (Start: 25 @45462 has 1 MA's), (52, 45555), (55, 45564), (Start: 63 @45585 has 65 MA's), (129, 45771), (142, 45801), (161, 45837), (192, 45888),

Gene: Krakatau_74 Start: 44687, Stop: 45067, Start Num: 60

Candidate Starts for Krakatau_74:

(Start: 60 @44687 has 43 MA's), (Start: 64 @44702 has 4 MA's), (129, 44822), (156, 44909), (160, 44915), (171, 44939), (201, 45002), (210, 45038),

Gene: Kugel_63 Start: 41957, Stop: 41598, Start Num: 63

Candidate Starts for Kugel_63:

(14, 42158), (43, 42014), (46, 42011), (Start: 63 @41957 has 65 MA's), (129, 41825), (134, 41792), (141, 41771), (175, 41705), (210, 41621),

Gene: Kykar_79 Start: 47679, Stop: 47278, Start Num: 63

Candidate Starts for Kykar_79:

(Start: 63 @47679 has 65 MA's), (Start: 64 @47667 has 4 MA's), (125, 47508), (129, 47493), (156, 47412), (171, 47385),

Gene: LRRHood_14 Start: 5702, Stop: 6052, Start Num: 61

Candidate Starts for LRRHood_14:

(Start: 61 @5702 has 204 MA's), (Start: 64 @5717 has 4 MA's), (129, 5837), (166, 5915), (171, 5927), (173, 5930), (210, 6023),

Gene: Labradorite_12 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Labradorite_12:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: LastJedi_70 Start: 46604, Stop: 47029, Start Num: 61

Candidate Starts for LastJedi_70:

(Start: 61 @46604 has 204 MA's), (Start: 64 @46619 has 4 MA's), (129, 46799), (162, 46883), (164, 46889), (166, 46892), (202, 46976),

Gene: Latch_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Latch_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Leozinho_78 Start: 46065, Stop: 46445, Start Num: 60

Candidate Starts for Leozinho_78:

(Start: 60 @46065 has 43 MA's), (Start: 64 @46080 has 4 MA's), (91, 46140), (122, 46212), (129, 46245), (210, 46422),

Gene: LifeSavor_14 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for LifeSavor_14:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Lilbit_8 Start: 2581, Stop: 2958, Start Num: 61

Candidate Starts for Lilbit_8:

(Start: 61 @2581 has 204 MA's), (Start: 64 @2593 has 4 MA's), (129, 2749), (166, 2827), (171, 2839), (173, 2842),

Gene: Lilpickle_45 Start: 35276, Stop: 34881, Start Num: 63

Candidate Starts for Lilpickle_45:

(24, 35378), (26, 35372), (33, 35342), (Start: 63 @35276 has 65 MA's), (Start: 64 @35264 has 4 MA's), (129, 35108), (134, 35075), (141, 35054), (175, 34988), (210, 34904),

Gene: LinStu_7 Start: 2992, Stop: 3348, Start Num: 75

Candidate Starts for LinStu_7:

(58, 2941), (Start: 75 @2992 has 16 MA's), (80, 3004), (92, 3031), (114, 3076), (129, 3139), (166, 3217), (171, 3229), (173, 3232),

Gene: LittleE_79 Start: 51011, Stop: 50637, Start Num: 64

Candidate Starts for LittleE_79:

(Start: 63 @51023 has 65 MA's), (Start: 64 @51011 has 4 MA's), (129, 50891), (147, 50819), (157, 50795), (194, 50723),

Gene: LittleLaf_7 Start: 2307, Stop: 2687, Start Num: 61

Candidate Starts for LittleLaf_7:

(Start: 61 @2307 has 204 MA's), (Start: 64 @2322 has 4 MA's), (129, 2478), (166, 2556), (171, 2568), (173, 2571),

Gene: Littleton_14 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Littleton_14:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Lizziana_83 Start: 49853, Stop: 50278, Start Num: 61

Candidate Starts for Lizziana_83:

(Start: 61 @49853 has 204 MA's), (Start: 64 @49868 has 4 MA's), (129, 50048), (162, 50132), (164, 50138), (166, 50141), (202, 50225),

Gene: Loanshark_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Loanshark_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: LolaVinca_8 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for LolaVinca_8:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: LordLeafolot_8 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for LordLeafolot_8:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: Lucky2013_77 Start: 48582, Stop: 48184, Start Num: 63

Candidate Starts for Lucky2013_77:

(Start: 63 @48582 has 65 MA's), (Start: 64 @48570 has 4 MA's), (129, 48414), (162, 48330), (164, 48324), (166, 48321), (202, 48237),

Gene: LunaBlu_82 Start: 48900, Stop: 49268, Start Num: 60

Candidate Starts for LunaBlu_82:

(Start: 60 @48900 has 43 MA's), (Start: 64 @48915 has 4 MA's), (129, 49050), (135, 49080), (151, 49119), (153, 49122), (207, 49245),

Gene: Maby2021_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Maby2021_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Mangeria_6 Start: 1759, Stop: 2133, Start Num: 63

Candidate Starts for Mangeria_6:

(Start: 63 @1759 has 65 MA's), (74, 1798), (107, 1843), (129, 1906), (165, 2008),

Gene: Mantra_76 Start: 47820, Stop: 48170, Start Num: 60

Candidate Starts for Mantra_76:

(27, 47724), (Start: 60 @47820 has 43 MA's), (Start: 64 @47835 has 4 MA's), (129, 47955),

Gene: Marker_91 Start: 50605, Stop: 50967, Start Num: 63

Candidate Starts for Marker_91:

(15, 50431), (18, 50440), (19, 50452), (22, 50464), (52, 50575), (55, 50584), (Start: 63 @50605 has 65 MA's), (Start: 64 @50617 has 4 MA's), (105, 50695), (117, 50719), (129, 50761),

Gene: Marker_82 Start: 48016, Stop: 48423, Start Num: 63

Candidate Starts for Marker_82:

(Start: 20 @47893 has 1 MA's), (51, 47986), (53, 47995), (Start: 63 @48016 has 65 MA's), (Start: 72 @48055 has 2 MA's), (104, 48100), (129, 48163), (147, 48241), (157, 48265), (194, 48337),

Gene: Marleymoo_69 Start: 49698, Stop: 49360, Start Num: 68

Candidate Starts for Marleymoo_69:

(57, 49728), (Start: 65 @49701 has 3 MA's), (Start: 68 @49698 has 4 MA's), (94, 49662), (154, 49515), (166, 49494), (194, 49434),

Gene: Martik_80 Start: 50276, Stop: 50662, Start Num: 60

Candidate Starts for Martik_80:

(Start: 60 @50276 has 43 MA's), (Start: 64 @50291 has 4 MA's), (91, 50351), (122, 50423), (129, 50456), (210, 50633),

Gene: MaryBeth_59 Start: 41225, Stop: 40836, Start Num: 63

Candidate Starts for MaryBeth_59:

(12, 41426), (41, 41282), (44, 41279), (Start: 63 @41225 has 65 MA's), (Start: 64 @41213 has 4 MA's), (117, 41126), (129, 41093), (147, 41015), (157, 40991), (194, 40919),

Gene: Matsumoto_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Matsumoto_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: McGee_13 Start: 3968, Stop: 4333, Start Num: 61

Candidate Starts for McGee_13:

(Start: 61 @3968 has 204 MA's), (Start: 64 @3983 has 4 MA's), (129, 4118), (166, 4196), (171, 4208), (173, 4211), (210, 4304),

Gene: McWolfish_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for McWolfish_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Megamind_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Megamind_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Melpomini_13 Start: 3949, Stop: 4314, Start Num: 61

Candidate Starts for Melpomini_13:

(Start: 61 @3949 has 204 MA's), (Start: 64 @3964 has 4 MA's), (129, 4099), (166, 4177), (171, 4189), (173, 4192), (210, 4285),

Gene: MetalQZJ_58 Start: 41225, Stop: 40836, Start Num: 63

Candidate Starts for MetalQZJ_58:

(12, 41426), (41, 41282), (44, 41279), (Start: 63 @41225 has 65 MA's), (Start: 64 @41213 has 4 MA's), (117, 41126), (129, 41093), (147, 41015), (157, 40991), (194, 40919),

Gene: MiaZeal_80 Start: 49238, Stop: 48840, Start Num: 63

Candidate Starts for MiaZeal_80:

(Start: 63 @49238 has 65 MA's), (Start: 64 @49226 has 4 MA's), (129, 49070), (162, 48986), (164, 48980), (166, 48977), (202, 48893),

Gene: MikeLiesIn_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for MikeLiesIn_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Mikro_6 Start: 2758, Stop: 3150, Start Num: 61

Candidate Starts for Mikro_6:

(Start: 61 @2758 has 204 MA's), (Start: 64 @2770 has 4 MA's), (84, 2818), (88, 2824), (117, 2887), (129, 2941), (166, 3019), (171, 3031), (173, 3034),

Gene: Minerva_82 Start: 52925, Stop: 52584, Start Num: 65

Candidate Starts for Minerva_82:

(57, 52952), (Start: 65 @52925 has 3 MA's), (Start: 68 @52922 has 4 MA's), (94, 52886), (154, 52739), (166, 52718), (194, 52658),

Gene: MinionDave_75 Start: 47890, Stop: 48285, Start Num: 63

Candidate Starts for MinionDave_75:

(Start: 63 @47890 has 65 MA's), (Start: 64 @47902 has 4 MA's), (129, 48037), (148, 48115), (173, 48166), (184, 48190), (194, 48208), (200, 48223), (210, 48262),

Gene: Minnie_76 Start: 50008, Stop: 50400, Start Num: 60

Candidate Starts for Minnie_76:

(Start: 60 @50008 has 43 MA's), (Start: 64 @50023 has 4 MA's), (130, 50161), (156, 50245), (160, 50251), (171, 50275), (201, 50338), (210, 50377),

Gene: MisterCuddles_76 Start: 48247, Stop: 48597, Start Num: 60

Candidate Starts for MisterCuddles_76:

(Start: 60 @48247 has 43 MA's), (Start: 64 @48262 has 4 MA's), (129, 48382),

Gene: MoMoMixon_5 Start: 1605, Stop: 1997, Start Num: 61

Candidate Starts for MoMoMixon_5:

(Start: 61 @1605 has 204 MA's), (Start: 64 @1617 has 4 MA's), (84, 1665), (88, 1671), (117, 1734), (129, 1788), (166, 1866), (171, 1878), (173, 1881),

Gene: Momo_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Momo_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: MooMoo_48 Start: 36030, Stop: 36353, Start Num: 76

Candidate Starts for MooMoo_48:

(66, 36000), (Start: 76 @36030 has 1 MA's), (78, 36036), (85, 36045), (103, 36099), (113, 36123), (123, 36147), (124, 36156), (131, 36186), (132, 36192), (160, 36246), (174, 36273),

Gene: Morizzled23_13 Start: 3949, Stop: 4314, Start Num: 61

Candidate Starts for Morizzled23_13:

(Start: 61 @3949 has 204 MA's), (Start: 64 @3964 has 4 MA's), (129, 4099), (166, 4177), (171, 4189), (173, 4192), (210, 4285),

Gene: MosMoris_9 Start: 2524, Stop: 2901, Start Num: 61

Candidate Starts for MosMoris_9:

(Start: 61 @2524 has 204 MA's), (Start: 64 @2539 has 4 MA's), (129, 2674), (134, 2707), (141, 2728), (175, 2794), (210, 2878),

Gene: Ms6_78 Start: 44647, Stop: 45045, Start Num: 86

Candidate Starts for Ms6_78:

(62, 44581), (Start: 64 @44593 has 4 MA's), (86, 44647), (111, 44740), (156, 44887), (160, 44893), (171, 44917), (210, 45016),

Gene: Mwanjiwa_82 Start: 49238, Stop: 49618, Start Num: 61

Candidate Starts for Mwanjiwa_82:

(Start: 61 @49238 has 204 MA's), (Start: 64 @49253 has 4 MA's), (129, 49373), (148, 49451), (173, 49502), (184, 49526), (194, 49544), (200, 49559), (210, 49595),

Gene: Naija_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Naija_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Napoleon13_13 Start: 3968, Stop: 4333, Start Num: 61

Candidate Starts for Napoleon13_13:

(Start: 61 @3968 has 204 MA's), (Start: 64 @3983 has 4 MA's), (129, 4118), (166, 4196), (171, 4208), (173, 4211), (210, 4304),

Gene: Nappy_6 Start: 1987, Stop: 2343, Start Num: 75

Candidate Starts for Nappy_6:

(Start: 75 @1987 has 16 MA's), (92, 2026), (114, 2071), (129, 2134), (166, 2212), (171, 2224), (173, 2227),

Gene: Naval22_6 Start: 1605, Stop: 1997, Start Num: 61

Candidate Starts for Naval22_6:

(Start: 61 @1605 has 204 MA's), (Start: 64 @1617 has 4 MA's), (84, 1665), (88, 1671), (117, 1734), (129, 1788), (166, 1866), (171, 1878), (173, 1881),

Gene: NedWong_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for NedWong_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Nekros_75 Start: 49878, Stop: 49516, Start Num: 63

Candidate Starts for Nekros_75:

(Start: 63 @49878 has 65 MA's), (Start: 64 @49866 has 4 MA's), (162, 49662), (164, 49656), (166, 49653), (202, 49569),

Gene: Ngannou_13 Start: 3949, Stop: 4314, Start Num: 61

Candidate Starts for Ngannou_13:

(Start: 61 @3949 has 204 MA's), (Start: 64 @3964 has 4 MA's), (129, 4099), (166, 4177), (171, 4189), (173, 4192), (210, 4285),

Gene: Nibley_69 Start: 46726, Stop: 46364, Start Num: 63

Candidate Starts for Nibley_69:

(Start: 63 @46726 has 65 MA's), (Start: 64 @46714 has 4 MA's), (129, 46594), (162, 46510), (164, 46504), (166, 46501), (202, 46417),

Gene: Nidhogg_5 Start: 1605, Stop: 1997, Start Num: 61

Candidate Starts for Nidhogg_5:

(Start: 61 @1605 has 204 MA's), (Start: 64 @1617 has 4 MA's), (84, 1665), (88, 1671), (117, 1734), (129, 1788), (166, 1866), (171, 1878), (173, 1881),

Gene: NonchalantPear_46 Start: 35570, Stop: 35184, Start Num: 54

Candidate Starts for NonchalantPear_46:

(6, 35774), (21, 35690), (Start: 54 @35570 has 2 MA's), (Start: 63 @35546 has 65 MA's), (Start: 64 @35534 has 4 MA's), (129, 35414), (146, 35360), (148, 35351), (172, 35303), (176, 35297), (193, 35261), (200, 35243), (210, 35207),

Gene: NoodleTree_6 Start: 1759, Stop: 2151, Start Num: 61

Candidate Starts for NoodleTree_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: Norm_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Norm_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: NormanBulbieJr_75 Start: 48043, Stop: 48468, Start Num: 61

Candidate Starts for NormanBulbieJr_75:

(Start: 61 @48043 has 204 MA's), (Start: 64 @48058 has 4 MA's), (129, 48238), (162, 48322), (164, 48328), (166, 48331), (202, 48415),

Gene: NormanBulbieJr_80 Start: 49599, Stop: 49982, Start Num: 63

Candidate Starts for NormanBulbieJr_80:

(15, 49425), (18, 49434), (22, 49458), (Start: 25 @49476 has 1 MA's), (52, 49569), (55, 49578), (Start: 63 @49599 has 65 MA's), (129, 49785), (142, 49815), (161, 49851), (192, 49902),

Gene: NuevoMundo_7 Start: 2137, Stop: 2493, Start Num: 75

Candidate Starts for NuevoMundo_7:

(Start: 75 @2137 has 16 MA's), (80, 2149), (92, 2176), (114, 2221), (129, 2284), (166, 2362), (171, 2374), (173, 2377),

Gene: Ogotogo_85 Start: 48076, Stop: 48471, Start Num: 63

Candidate Starts for Ogotogo_85:

(40, 48034), (Start: 63 @48076 has 65 MA's), (Start: 64 @48088 has 4 MA's), (129, 48244), (134, 48277), (141, 48298), (175, 48364), (210, 48448),

Gene: Okabe_75 Start: 45236, Stop: 45616, Start Num: 61

Candidate Starts for Okabe_75:

(Start: 61 @45236 has 204 MA's), (Start: 64 @45251 has 4 MA's), (129, 45371), (148, 45449), (173, 45500), (184, 45524), (194, 45542), (200, 45557), (210, 45593),

Gene: OlympiaSaint_79 Start: 48822, Stop: 49202, Start Num: 61

Candidate Starts for OlympiaSaint_79:

(Start: 61 @48822 has 204 MA's), (Start: 64 @48837 has 4 MA's), (129, 48993), (166, 49071), (171, 49083), (173, 49086), (210, 49179),

Gene: Omega_81 Start: 52384, Stop: 51857, Start Num: 20

Candidate Starts for Omega_81:

(Start: 20 @52384 has 1 MA's), (34, 52312), (35, 52309), (Start: 63 @52243 has 65 MA's), (Start: 64 @52231 has 4 MA's), (129, 52111), (147, 52039), (157, 52015), (194, 51943),

Gene: Ovechkin_81 Start: 48812, Stop: 49225, Start Num: 60

Candidate Starts for Ovechkin_81:

(Start: 60 @48812 has 43 MA's), (Start: 64 @48827 has 4 MA's), (91, 48887), (122, 48959), (129, 48992), (163, 49088), (195, 49154), (205, 49178),

Gene: ParkTD_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for ParkTD_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Pat3_42 Start: 34357, Stop: 33938, Start Num: 63

Candidate Starts for Pat3_42:

(Start: 54 @34378 has 2 MA's), (58, 34366), (Start: 63 @34357 has 65 MA's), (Start: 64 @34345 has 4 MA's), (129, 34171), (165, 34069),

Gene: Patter_13 Start: 4002, Stop: 4352, Start Num: 64

Candidate Starts for Patter_13:

(Start: 61 @3987 has 204 MA's), (Start: 64 @4002 has 4 MA's), (129, 4137), (166, 4215), (171, 4227), (173, 4230), (210, 4323),

Gene: Peterson_65 Start: 43369, Stop: 42962, Start Num: 63

Candidate Starts for Peterson_65:

(14, 43570), (43, 43426), (46, 43423), (Start: 63 @43369 has 65 MA's), (Start: 64 @43357 has 4 MA's), (82, 43318), (125, 43216), (150, 43138), (179, 43084), (194, 43051), (197, 43042), (209, 42994),

Gene: Peterson_79 Start: 49024, Stop: 48623, Start Num: 63

Candidate Starts for Peterson_79:

(Start: 63 @49024 has 65 MA's), (Start: 64 @49012 has 4 MA's), (95, 48949), (101, 48940), (129, 48847), (133, 48805), (189, 48709), (210, 48652),

Gene: Petruccio_60 Start: 40166, Stop: 39780, Start Num: 63

Candidate Starts for Petruccio_60:

(Start: 63 @40166 has 65 MA's), (Start: 64 @40154 has 4 MA's), (129, 40034), (147, 39962), (157, 39938), (194, 39866), (210, 39803),

Gene: Phalconet_76 Start: 47337, Stop: 47762, Start Num: 61

Candidate Starts for Phalconet_76:

(Start: 61 @47337 has 204 MA's), (Start: 64 @47352 has 4 MA's), (98, 47436), (102, 47454), (129, 47532), (162, 47616), (164, 47622), (166, 47625), (202, 47709),

Gene: Phanphagia_77 Start: 48265, Stop: 48633, Start Num: 61

Candidate Starts for Phanphagia_77:

(Start: 61 @48265 has 204 MA's), (Start: 64 @48280 has 4 MA's), (129, 48400), (154, 48469), (166, 48490), (194, 48550), (209, 48607),

Gene: PharkleMinkus_8 Start: 2465, Stop: 2821, Start Num: 75

Candidate Starts for PharkleMinkus_8:

(Start: 75 @2465 has 16 MA's), (80, 2477), (92, 2504), (114, 2549), (129, 2612), (166, 2690), (171, 2702), (173, 2705),

Gene: PherrisBueller_78 Start: 45810, Stop: 45409, Start Num: 61

Candidate Starts for PherrisBueller_78:

(Start: 61 @45810 has 204 MA's), (129, 45618), (166, 45540), (171, 45528), (173, 45525), (210, 45432),

Gene: PhesterPhotato_83 Start: 48607, Stop: 48993, Start Num: 63

Candidate Starts for PhesterPhotato_83:

(Start: 63 @48607 has 65 MA's), (Start: 64 @48619 has 4 MA's), (129, 48739), (147, 48811), (157, 48835), (194, 48907),

Gene: PhesterPhotato_82 Start: 48233, Stop: 48610, Start Num: 60

Candidate Starts for PhesterPhotato_82:

(Start: 60 @48233 has 43 MA's), (Start: 64 @48248 has 4 MA's), (129, 48383), (156, 48470), (160, 48476), (171, 48500),

Gene: Philus_82 Start: 50521, Stop: 50901, Start Num: 61

Candidate Starts for Philus_82:

(Start: 61 @50521 has 204 MA's), (Start: 64 @50536 has 4 MA's), (129, 50692), (166, 50770), (171, 50782), (173, 50785), (210, 50878),

Gene: Phlegm_14 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Phlegm_14:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Phox_14 Start: 5699, Stop: 6049, Start Num: 61

Candidate Starts for Phox_14:

(Start: 61 @5699 has 204 MA's), (Start: 64 @5714 has 4 MA's), (129, 5834), (166, 5912), (171, 5924), (173, 5927), (210, 6020),

Gene: Phusco_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Phusco_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Pier_7 Start: 2140, Stop: 2496, Start Num: 75

Candidate Starts for Pier_7:

(Start: 75 @2140 has 16 MA's), (80, 2152), (92, 2179), (114, 2224), (129, 2287), (166, 2365), (171, 2377), (173, 2380),

Gene: Pinkcreek_9 Start: 4088, Stop: 4453, Start Num: 61

Candidate Starts for Pinkcreek_9:

(Start: 61 @4088 has 204 MA's), (Start: 64 @4103 has 4 MA's), (129, 4238), (166, 4316), (171, 4328), (173, 4331), (210, 4424),

Gene: Pio_6 Start: 1759, Stop: 2151, Start Num: 61

Candidate Starts for Pio_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: Pippy_75 Start: 47171, Stop: 47551, Start Num: 60

Candidate Starts for Pippy_75:

(Start: 60 @47171 has 43 MA's), (Start: 64 @47186 has 4 MA's), (91, 47246), (122, 47318), (129, 47351), (210, 47528),

Gene: Pivoine_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Pivoine_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Pleione_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Pleione_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Plumbus_81 Start: 45998, Stop: 46525, Start Num: 28

Candidate Starts for Plumbus_81:

(Start: 28 @45998 has 1 MA's), (29, 46001), (47, 46058), (49, 46061), (52, 46073), (96, 46163), (129, 46265), (147, 46337), (157, 46361), (194, 46433), (210, 46496),

Gene: PopTart_69 Start: 45137, Stop: 45511, Start Num: 60

Candidate Starts for PopTart_69:

(Start: 60 @45137 has 43 MA's), (Start: 64 @45152 has 4 MA's), (125, 45272), (129, 45287), (136, 45329), (189, 45425), (200, 45449),

Gene: Porcelain_79 Start: 49238, Stop: 48840, Start Num: 63

Candidate Starts for Porcelain_79:

(Start: 63 @49238 has 65 MA's), (Start: 64 @49226 has 4 MA's), (129, 49070), (162, 48986), (164, 48980), (166, 48977), (202, 48893),

Gene: Pound_80 Start: 54194, Stop: 53856, Start Num: 68

Candidate Starts for Pound_80:

(57, 54224), (Start: 65 @54197 has 3 MA's), (Start: 68 @54194 has 4 MA's), (94, 54158), (154, 54011), (166, 53990), (194, 53930),

Gene: Pringar_7 Start: 2135, Stop: 2512, Start Num: 61

Candidate Starts for Pringar_7:

(Start: 61 @2135 has 204 MA's), (Start: 64 @2147 has 4 MA's), (129, 2303), (166, 2381), (171, 2393), (173, 2396),

Gene: Priscilla_82 Start: 49697, Stop: 50080, Start Num: 63

Candidate Starts for Priscilla_82:

(15, 49523), (18, 49532), (22, 49556), (Start: 25 @49574 has 1 MA's), (52, 49667), (55, 49676), (Start: 63 @49697 has 65 MA's), (129, 49883), (142, 49913), (161, 49949), (192, 50000),

Gene: Priscilla_76 Start: 48141, Stop: 48566, Start Num: 61

Candidate Starts for Priscilla_76:

(Start: 61 @48141 has 204 MA's), (Start: 64 @48156 has 4 MA's), (129, 48336), (162, 48420), (164, 48426), (166, 48429), (202, 48513),

Gene: ProMouse_60 Start: 41014, Stop: 40655, Start Num: 86

Candidate Starts for ProMouse_60:

(14, 41281), (43, 41137), (46, 41134), (Start: 63 @41080 has 65 MA's), (86, 41014), (129, 40870), (137, 40834), (140, 40828), (204, 40696), (210, 40678),

Gene: Puppet_75 Start: 48323, Stop: 47952, Start Num: 63

Candidate Starts for Puppet_75:

(Start: 63 @48323 has 65 MA's), (Start: 64 @48311 has 4 MA's), (77, 48275), (109, 48233), (121, 48209), (129, 48167), (171, 48077), (173, 48074), (202, 48011), (211, 47975),

Gene: PurduePete_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for PurduePete_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: QBert_6 Start: 2762, Stop: 3154, Start Num: 61

Candidate Starts for QBert_6:

(Start: 61 @2762 has 204 MA's), (Start: 64 @2774 has 4 MA's), (84, 2822), (88, 2828), (117, 2891), (129, 2945), (166, 3023), (171, 3035), (173, 3038),

Gene: Quasimodo_13 Start: 4969, Stop: 5334, Start Num: 61

Candidate Starts for Quasimodo_13:

(Start: 61 @4969 has 204 MA's), (Start: 64 @4984 has 4 MA's), (129, 5119), (166, 5197), (171, 5209), (173, 5212), (210, 5305),

Gene: Rabinovish_12 Start: 4755, Stop: 5105, Start Num: 61

Candidate Starts for Rabinovish_12:

(Start: 61 @4755 has 204 MA's), (Start: 64 @4770 has 4 MA's), (129, 4890), (166, 4968), (171, 4980), (173, 4983), (210, 5076),

Gene: Radiance_78 Start: 48851, Stop: 49231, Start Num: 60

Candidate Starts for Radiance_78:

(Start: 60 @48851 has 43 MA's), (Start: 64 @48866 has 4 MA's), (91, 48926), (122, 48998), (129, 49031), (210, 49208),

Gene: Raela_7 Start: 2533, Stop: 2922, Start Num: 61

Candidate Starts for Raela_7:

(Start: 61 @2533 has 204 MA's), (Start: 64 @2548 has 4 MA's), (129, 2668), (147, 2740), (157, 2764), (194, 2836), (210, 2899),

Gene: Rahel_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Rahel_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Raid_77 Start: 47398, Stop: 46961, Start Num: 63

Candidate Starts for Raid_77:

(Start: 63 @47398 has 65 MA's), (Start: 64 @47386 has 4 MA's), (99, 47302), (129, 47206), (148, 47128), (173, 47077), (184, 47053), (194, 47035), (200, 47020), (210, 46984),

Gene: Ramsey_83 Start: 50333, Stop: 50683, Start Num: 60

Candidate Starts for Ramsey_83:

(Start: 60 @50333 has 43 MA's), (Start: 64 @50348 has 4 MA's), (129, 50483), (207, 50660),

Gene: RedBird_81 Start: 50091, Stop: 50441, Start Num: 60

Candidate Starts for RedBird_81:

(Start: 60 @50091 has 43 MA's), (Start: 64 @50106 has 4 MA's), (129, 50241), (207, 50418),

Gene: RedRaider77_8 Start: 2530, Stop: 2889, Start Num: 61

Candidate Starts for RedRaider77_8:

(Start: 61 @2530 has 204 MA's), (Start: 64 @2545 has 4 MA's), (129, 2680), (166, 2758), (171, 2770), (173, 2773), (210, 2866), (213, 2884),

Gene: Renaud18_89 Start: 49475, Stop: 49831, Start Num: 60

Candidate Starts for Renaud18_89:

(16, 49322), (19, 49337), (Start: 60 @49475 has 43 MA's), (Start: 64 @49490 has 4 MA's), (129, 49610), (155, 49670), (166, 49685), (178, 49709), (180, 49715), (196, 49748), (210, 49802),

Gene: Ringer_61 Start: 42004, Stop: 41573, Start Num: 61

Candidate Starts for Ringer_61:

(10, 42205), (37, 42061), (39, 42058), (Start: 61 @42004 has 204 MA's), (Start: 64 @41992 has 4 MA's), (118, 41842), (120, 41839), (129, 41782), (166, 41704), (171, 41692), (173, 41689),

Gene: Rizal_13 Start: 3965, Stop: 4330, Start Num: 61

Candidate Starts for Rizal_13:

(Start: 61 @3965 has 204 MA's), (Start: 64 @3980 has 4 MA's), (129, 4115), (166, 4193), (171, 4205), (173, 4208), (210, 4301),

Gene: RoMag_5 Start: 2623, Stop: 3003, Start Num: 64

Candidate Starts for RoMag_5:

(Start: 61 @2611 has 204 MA's), (Start: 64 @2623 has 4 MA's), (84, 2671), (88, 2677), (117, 2740), (129, 2794), (166, 2872), (171, 2884), (173, 2887),

Gene: Roots515_14 Start: 5049, Stop: 5399, Start Num: 61

Candidate Starts for Roots515_14:

(Start: 61 @5049 has 204 MA's), (Start: 64 @5064 has 4 MA's), (129, 5184), (166, 5262), (171, 5274), (173, 5277), (210, 5370),

Gene: Ruby_73 Start: 48248, Stop: 48598, Start Num: 60

Candidate Starts for Ruby_73:

(Start: 60 @48248 has 43 MA's), (Start: 64 @48263 has 4 MA's), (129, 48383),

Gene: SG4_76 Start: 47114, Stop: 47569, Start Num: 61

Candidate Starts for SG4_76:

(Start: 61 @47114 has 204 MA's), (Start: 64 @47129 has 4 MA's), (115, 47279), (117, 47282), (129, 47339), (162, 47423), (164, 47429), (166, 47432), (202, 47516),

Gene: STLscum_69 Start: 42972, Stop: 42544, Start Num: 63

Candidate Starts for STLscum_69:

(12, 43173), (41, 43029), (44, 43026), (Start: 63 @42972 has 65 MA's), (Start: 64 @42960 has 4 MA's), (129, 42804), (147, 42726), (157, 42702), (194, 42630),

Gene: SVoro_14 Start: 5044, Stop: 5394, Start Num: 61

Candidate Starts for SVoro_14:

(Start: 61 @5044 has 204 MA's), (Start: 64 @5059 has 4 MA's), (129, 5179), (166, 5257), (171, 5269), (173, 5272), (210, 5365),

Gene: Saal_78 Start: 49224, Stop: 49649, Start Num: 61

Candidate Starts for Saal_78:

(Start: 61 @49224 has 204 MA's), (Start: 64 @49239 has 4 MA's), (129, 49419), (162, 49503), (164, 49509), (166, 49512), (202, 49596),

Gene: Salacia_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Salacia_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Sandalphon_74 Start: 47993, Stop: 48385, Start Num: 60

Candidate Starts for Sandalphon_74:

(Start: 60 @47993 has 43 MA's), (Start: 64 @48008 has 4 MA's), (130, 48146), (156, 48230), (160, 48236), (171, 48260), (201, 48323), (210, 48362),

Gene: SarFire_60 Start: 40901, Stop: 40488, Start Num: 63

Candidate Starts for SarFire_60:

(12, 41102), (41, 40958), (44, 40955), (Start: 63 @40901 has 65 MA's), (Start: 72 @40862 has 2 MA's), (104, 40817), (129, 40754), (147, 40676), (157, 40652), (194, 40580),

Gene: Saskia_69 Start: 41717, Stop: 41358, Start Num: 63

Candidate Starts for Saskia_69:

(36, 41786), (47, 41762), (Start: 63 @41717 has 65 MA's), (Start: 64 @41705 has 4 MA's), (129, 41585), (162, 41501), (164, 41495), (166, 41492), (202, 41408),

Gene: Sassafras_81 Start: 48408, Stop: 48758, Start Num: 60

Candidate Starts for Sassafras_81:

(Start: 60 @48408 has 43 MA's), (Start: 64 @48423 has 4 MA's), (129, 48558), (207, 48735),

Gene: SassyB_69 Start: 45137, Stop: 45511, Start Num: 60

Candidate Starts for SassyB_69:

(Start: 60 @45137 has 43 MA's), (Start: 64 @45152 has 4 MA's), (125, 45272), (129, 45287), (136, 45329), (189, 45425), (200, 45449),

Gene: Sauce_5 Start: 1609, Stop: 2001, Start Num: 61

Candidate Starts for Sauce_5:

(Start: 61 @1609 has 204 MA's), (Start: 64 @1621 has 4 MA's), (84, 1669), (88, 1675), (117, 1738), (129, 1792), (166, 1870), (171, 1882), (173, 1885),

Gene: ScottMcG_15 Start: 5206, Stop: 5562, Start Num: 60

Candidate Starts for ScottMcG_15:

(Start: 60 @5206 has 43 MA's), (Start: 64 @5221 has 4 MA's), (129, 5341), (206, 5512), (210, 5533),

Gene: ScottMcG_5 Start: 1605, Stop: 1997, Start Num: 61

Candidate Starts for ScottMcG_5:

(Start: 61 @1605 has 204 MA's), (Start: 64 @1617 has 4 MA's), (84, 1665), (88, 1671), (117, 1734), (129, 1788), (166, 1866), (171, 1878), (173, 1881),

Gene: Sebata_7 Start: 2992, Stop: 3348, Start Num: 75

Candidate Starts for Sebata_7:

(58, 2941), (Start: 75 @2992 has 16 MA's), (80, 3004), (92, 3031), (114, 3076), (129, 3139), (166, 3217), (171, 3229), (173, 3232),

Gene: Shaboozey_67 Start: 45344, Stop: 44943, Start Num: 61

Candidate Starts for Shaboozey_67:

(Start: 61 @45344 has 204 MA's), (Start: 64 @45332 has 4 MA's), (106, 45248), (111, 45230), (129, 45152), (166, 45074), (171, 45062), (173, 45059), (210, 44966),

Gene: Shaboozey_75 Start: 47658, Stop: 47296, Start Num: 63

Candidate Starts for Shaboozey_75:

(Start: 63 @47658 has 65 MA's), (Start: 64 @47646 has 4 MA's), (129, 47526), (162, 47442), (164, 47436), (166, 47433), (202, 47349),

Gene: Shauna1_78 Start: 48515, Stop: 48883, Start Num: 61

Candidate Starts for Shauna1_78:

(Start: 61 @48515 has 204 MA's), (Start: 64 @48530 has 4 MA's), (129, 48650), (154, 48719), (166, 48740), (194, 48800), (209, 48857),

Gene: Shelob_17 Start: 6224, Stop: 6574, Start Num: 61

Candidate Starts for Shelob_17:

(Start: 61 @6224 has 204 MA's), (Start: 64 @6239 has 4 MA's), (129, 6359), (166, 6437), (171, 6449), (173, 6452), (210, 6545),

Gene: ShiaLabeouf_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for ShiaLabeouf_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Shifa_10 Start: 4323, Stop: 4688, Start Num: 61

Candidate Starts for Shifa_10:

(Start: 61 @4323 has 204 MA's), (Start: 64 @4338 has 4 MA's), (129, 4473), (166, 4551), (171, 4563), (173, 4566), (210, 4659),

Gene: Shnickers_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Shnickers_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Shrimp_14 Start: 5054, Stop: 5404, Start Num: 61

Candidate Starts for Shrimp_14:

(Start: 61 @5054 has 204 MA's), (Start: 64 @5069 has 4 MA's), (129, 5189), (166, 5267), (171, 5279), (173, 5282), (210, 5375),

Gene: ShroomBoi_80 Start: 48740, Stop: 49138, Start Num: 60

Candidate Starts for ShroomBoi_80:

(Start: 60 @48740 has 43 MA's), (Start: 64 @48755 has 4 MA's), (129, 48911), (156, 48998), (160, 49004), (171, 49028),

Gene: SiSi_75 Start: 47345, Stop: 47695, Start Num: 60

Candidate Starts for SiSi_75:

(Start: 60 @47345 has 43 MA's), (Start: 64 @47360 has 4 MA's), (129, 47480),

Gene: SilverDipper_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for SilverDipper_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Simpliphy_43 Start: 34882, Stop: 34496, Start Num: 63

Candidate Starts for Simpliphy_43:

(Start: 63 @34882 has 65 MA's), (Start: 64 @34870 has 4 MA's), (129, 34750), (147, 34678), (157, 34654), (194, 34582), (210, 34519),

Gene: SimranZ1_79 Start: 47570, Stop: 47956, Start Num: 60

Candidate Starts for SimranZ1_79:

(Start: 60 @47570 has 43 MA's), (Start: 64 @47585 has 4 MA's), (91, 47645), (122, 47717), (129, 47750), (177, 47852), (188, 47873), (198, 47897),

Gene: SkiPole_69 Start: 42424, Stop: 42029, Start Num: 63

Candidate Starts for SkiPole_69:

(9, 42634), (14, 42625), (43, 42481), (46, 42478), (Start: 63 @42424 has 65 MA's), (129, 42256), (134, 42223), (141, 42202), (175, 42136), (210, 42052),

Gene: SmallFry_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for SmallFry_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Smooch_23 Start: 10621, Stop: 10995, Start Num: 56

Candidate Starts for Smooch_23:

(30, 10534), (48, 10591), (Start: 56 @10621 has 1 MA's), (Start: 63 @10633 has 65 MA's), (Start: 64 @10645 has 4 MA's), (129, 10765), (162, 10849), (164, 10855), (166, 10858), (202, 10942),

Gene: Soul22_81 Start: 46673, Stop: 47050, Start Num: 60

Candidate Starts for Soul22_81:

(Start: 60 @46673 has 43 MA's), (Start: 64 @46688 has 4 MA's), (129, 46808), (156, 46895), (160, 46901), (171, 46925), (201, 46988), (210, 47027),

Gene: Spartacus_85 Start: 51000, Stop: 51356, Start Num: 63

Candidate Starts for Spartacus_85:

(3, 50706), (4, 50739), (15, 50826), (18, 50835), (22, 50859), (Start: 25 @50877 has 1 MA's), (52, 50970), (55, 50979), (Start: 63 @51000 has 65 MA's), (Start: 72 @51039 has 2 MA's), (97, 51084), (115, 51147), (126, 51180), (127, 51183), (157, 51234), (164, 51240), (186, 51276), (190, 51285),

Gene: Specks_8 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for Specks_8:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: Sprinklers_13 Start: 4140, Stop: 4490, Start Num: 61

Candidate Starts for Sprinklers_13:

(Start: 61 @4140 has 204 MA's), (Start: 64 @4155 has 4 MA's), (129, 4275), (166, 4353), (171, 4365), (173, 4368), (210, 4461),

Gene: Spud_6 Start: 1759, Stop: 2151, Start Num: 61

Candidate Starts for Spud_6:

(Start: 61 @1759 has 204 MA's), (Start: 64 @1771 has 4 MA's), (84, 1819), (88, 1825), (117, 1888), (129, 1942), (166, 2020), (171, 2032), (173, 2035),

Gene: Squint_80 Start: 49357, Stop: 48959, Start Num: 63

Candidate Starts for Squint_80:

(Start: 63 @49357 has 65 MA's), (Start: 64 @49345 has 4 MA's), (129, 49189), (162, 49105), (164, 49099), (166, 49096), (202, 49012),

Gene: SrishMeg2525_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for SrishMeg2525_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: StAnnes_81 Start: 49578, Stop: 49967, Start Num: 61

Candidate Starts for StAnnes_81:

(Start: 61 @49578 has 204 MA's), (Start: 64 @49593 has 4 MA's), (129, 49713), (147, 49785), (157, 49809), (194, 49881), (210, 49944),

Gene: StephanieG_7 Start: 2140, Stop: 2496, Start Num: 75

Candidate Starts for StephanieG_7:

(Start: 75 @2140 has 16 MA's), (80, 2152), (92, 2179), (114, 2224), (129, 2287), (166, 2365), (171, 2377), (173, 2380),

Gene: Stubby_14 Start: 5456, Stop: 5821, Start Num: 61

Candidate Starts for Stubby_14:

(Start: 61 @5456 has 204 MA's), (Start: 64 @5471 has 4 MA's), (129, 5606), (166, 5684), (171, 5696), (173, 5699), (210, 5792),

Gene: StubbySaigey_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for StubbySaigey_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Substance289_12 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Substance289_12:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: SuperGrey_79 Start: 50245, Stop: 50601, Start Num: 60

Candidate Starts for SuperGrey_79:

(Start: 60 @50245 has 43 MA's), (Start: 64 @50260 has 4 MA's), (129, 50395), (207, 50572),

Gene: Superphikiman_77 Start: 48448, Stop: 48050, Start Num: 63

Candidate Starts for Superphikiman_77:

(Start: 63 @48448 has 65 MA's), (Start: 64 @48436 has 4 MA's), (129, 48280), (162, 48196), (164, 48190), (166, 48187), (202, 48103),

Gene: SwagPigglett_82 Start: 50360, Stop: 50785, Start Num: 61

Candidate Starts for SwagPigglett_82:

(Start: 61 @50360 has 204 MA's), (Start: 64 @50375 has 4 MA's), (129, 50555), (162, 50639), (164, 50645), (166, 50648), (202, 50732),

Gene: Taj_85 Start: 49957, Stop: 50334, Start Num: 61

Candidate Starts for Taj_85:

(Start: 61 @49957 has 204 MA's), (Start: 64 @49972 has 4 MA's), (108, 50050), (129, 50107), (162, 50191), (164, 50197), (166, 50200), (202, 50284),

Gene: Target_63 Start: 40851, Stop: 40456, Start Num: 63

Candidate Starts for Target_63:

(14, 41052), (43, 40908), (46, 40905), (Start: 63 @40851 has 65 MA's), (Start: 64 @40839 has 4 MA's), (129, 40683), (134, 40650), (141, 40629), (175, 40563), (210, 40479),

Gene: Target_79 Start: 46689, Stop: 46291, Start Num: 63

Candidate Starts for Target_79:

(Start: 63 @46689 has 65 MA's), (Start: 64 @46677 has 4 MA's), (129, 46521), (139, 46467), (145, 46458), (168, 46410), (171, 46404), (194, 46368), (201, 46350), (210, 46314),

Gene: Teardrop_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Teardrop_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Teodoridan_77 Start: 45969, Stop: 45598, Start Num: 63

Candidate Starts for Teodoridan_77:

(Start: 63 @45969 has 65 MA's), (Start: 64 @45957 has 4 MA's), (77, 45921), (109, 45879), (121, 45855), (129, 45813), (171, 45723), (173, 45720), (202, 45657), (211, 45621),

Gene: Thibault_67 Start: 47871, Stop: 47533, Start Num: 68

Candidate Starts for Thibault_67:

(57, 47901), (Start: 65 @47874 has 3 MA's), (Start: 68 @47871 has 4 MA's), (94, 47835), (154, 47688), (166, 47667), (194, 47607),

Gene: Thor_60 Start: 40259, Stop: 39846, Start Num: 63

Candidate Starts for Thor_60:

(12, 40460), (41, 40316), (44, 40313), (Start: 63 @40259 has 65 MA's), (Start: 72 @40220 has 2 MA's), (104, 40175), (129, 40112), (147, 40034), (157, 40010), (194, 39938),

Gene: TinyTim_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for TinyTim_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Tootsieroll_77 Start: 49368, Stop: 49754, Start Num: 60

Candidate Starts for Tootsieroll_77:

(Start: 60 @49368 has 43 MA's), (Start: 64 @49383 has 4 MA's), (129, 49518), (145, 49584), (163, 49617), (166, 49623), (185, 49659), (191, 49668), (212, 49734),

Gene: Tortoise16_12 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Tortoise16_12:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Trinitium_13 Start: 3966, Stop: 4331, Start Num: 61

Candidate Starts for Trinitium_13:

(Start: 61 @3966 has 204 MA's), (Start: 64 @3981 has 4 MA's), (129, 4116), (166, 4194), (171, 4206), (173, 4209), (210, 4302),

Gene: Tripl3t_83 Start: 50856, Stop: 50458, Start Num: 63

Candidate Starts for Tripl3t_83:

(Start: 63 @50856 has 65 MA's), (129, 50664), (144, 50613), (156, 50589), (171, 50562), (210, 50481),

Gene: Turret_13 Start: 3949, Stop: 4314, Start Num: 61

Candidate Starts for Turret_13:

(Start: 61 @3949 has 204 MA's), (Start: 64 @3964 has 4 MA's), (129, 4099), (166, 4177), (171, 4189), (173, 4192), (210, 4285),

Gene: Tweety_79 Start: 48958, Stop: 49341, Start Num: 60

Candidate Starts for Tweety_79:

(Start: 60 @48958 has 43 MA's), (Start: 64 @48973 has 4 MA's), (129, 49093), (156, 49180), (160, 49186), (171, 49210), (210, 49312),

Gene: Tyke_8 Start: 2464, Stop: 2820, Start Num: 75

Candidate Starts for Tyke_8:

(Start: 75 @2464 has 16 MA's), (80, 2476), (92, 2503), (114, 2548), (129, 2611), (166, 2689), (171, 2701), (173, 2704),

Gene: Ukulele_42 Start: 35251, Stop: 34865, Start Num: 54

Candidate Starts for Ukulele_42:

(6, 35455), (21, 35371), (Start: 54 @35251 has 2 MA's), (Start: 63 @35227 has 65 MA's), (Start: 64 @35215 has 4 MA's), (129, 35095), (146, 35041), (148, 35032), (172, 34984), (176, 34978), (193, 34942), (200, 34924), (210, 34888),

Gene: ValleyTerrace_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for ValleyTerrace_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Veteran_71 Start: 47213, Stop: 47563, Start Num: 60

Candidate Starts for Veteran_71:

(Start: 60 @47213 has 43 MA's), (Start: 64 @47228 has 4 MA's), (129, 47348),

Gene: Vortrix_21 Start: 6392, Stop: 6700, Start Num: 72

Candidate Starts for Vortrix_21:

(Start: 61 @6350 has 204 MA's), (Start: 64 @6365 has 4 MA's), (Start: 72 @6392 has 2 MA's), (80, 6401), (105, 6443), (117, 6467), (129, 6509), (159, 6560), (189, 6602), (210, 6677),

Gene: Wachhund_78 Start: 45999, Stop: 46379, Start Num: 60

Candidate Starts for Wachhund_78:

(Start: 60 @45999 has 43 MA's), (Start: 64 @46014 has 4 MA's), (129, 46149), (138, 46203), (143, 46212), (169, 46260), (180, 46278), (191, 46302), (200, 46320),

Gene: Wally_13 Start: 3970, Stop: 4335, Start Num: 61

Candidate Starts for Wally_13:

(Start: 61 @3970 has 204 MA's), (Start: 64 @3985 has 4 MA's), (129, 4120), (166, 4198), (171, 4210), (173, 4213), (210, 4306),

Gene: Wee_84 Start: 50033, Stop: 50410, Start Num: 61

Candidate Starts for Wee_84:

(Start: 61 @50033 has 204 MA's), (Start: 64 @50048 has 4 MA's), (108, 50126), (129, 50183), (162, 50267), (164, 50273), (166, 50276), (202, 50360),

Gene: Whouxphf_84 Start: 50087, Stop: 50422, Start Num: 63

Candidate Starts for Whouxphf_84:

(1, 49742), (2, 49760), (3, 49793), (4, 49826), (15, 49913), (18, 49922), (19, 49934), (22, 49946), (23, 49955), (Start: 25 @49964 has 1 MA's), (52, 50057), (55, 50066), (Start: 63 @50087 has 65 MA's), (105, 50186), (115, 50219), (128, 50261), (181, 50327),

Gene: WillSterrel_78 Start: 48814, Stop: 49227, Start Num: 60

Candidate Starts for WillSterrel_78:

(Start: 60 @48814 has 43 MA's), (Start: 64 @48829 has 4 MA's), (129, 48985), (156, 49072), (160, 49078), (171, 49102), (201, 49165), (210, 49204),

Gene: Willis_14 Start: 4975, Stop: 5340, Start Num: 61

Candidate Starts for Willis_14:

(Start: 61 @4975 has 204 MA's), (Start: 64 @4990 has 4 MA's), (129, 5125), (166, 5203), (171, 5215), (173, 5218), (210, 5311),

Gene: XFactor_74 Start: 47423, Stop: 47782, Start Num: 73

Candidate Starts for XFactor_74:

(Start: 73 @47423 has 1 MA's), (79, 47438), (129, 47558), (133, 47600), (189, 47696), (210, 47753),

Gene: Xiaokay_70 Start: 48787, Stop: 48449, Start Num: 68

Candidate Starts for Xiaokay_70:

(57, 48817), (Start: 65 @48790 has 3 MA's), (Start: 68 @48787 has 4 MA's), (94, 48751), (154, 48604), (166, 48583), (194, 48523),

Gene: Yassified_13 Start: 4163, Stop: 4537, Start Num: 61

Candidate Starts for Yassified_13:

(Start: 61 @4163 has 204 MA's), (Start: 64 @4178 has 4 MA's), (69, 4187), (77, 4214), (109, 4256), (121, 4280), (129, 4322), (171, 4412), (173, 4415), (210, 4508),

Gene: YemiJoy2021_14 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for YemiJoy2021_14:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Yoshi_94 Start: 49980, Stop: 50474, Start Num: 25

Candidate Starts for Yoshi_94:

(Start: 25 @49980 has 1 MA's), (52, 50073), (55, 50082), (Start: 63 @50103 has 65 MA's), (129, 50268), (164, 50331), (167, 50337), (181, 50358), (199, 50397),

Gene: YoungMoneyMata_13 Start: 3968, Stop: 4333, Start Num: 61

Candidate Starts for YoungMoneyMata_13:

(Start: 61 @3968 has 204 MA's), (Start: 64 @3983 has 4 MA's), (129, 4118), (166, 4196), (171, 4208), (173, 4211), (210, 4304),

Gene: Yucca_13 Start: 4972, Stop: 5322, Start Num: 61

Candidate Starts for Yucca_13:

(Start: 61 @4972 has 204 MA's), (Start: 64 @4987 has 4 MA's), (129, 5107), (166, 5185), (171, 5197), (173, 5200), (210, 5293),

Gene: Zakhe101_23 Start: 10681, Stop: 11073, Start Num: 63

Candidate Starts for Zakhe101_23:

(Start: 63 @10681 has 65 MA's), (129, 10813), (148, 10897), (173, 10951), (184, 10975), (190, 10987), (194, 10993), (202, 11017), (206, 11032), (210, 11050),

Gene: Zalkecks_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for Zalkecks_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275), (173, 5278), (210, 5371),

Gene: Zapner_87 Start: 47003, Stop: 47359, Start Num: 60

Candidate Starts for Zapner_87:

(Start: 60 @47003 has 43 MA's), (Start: 64 @47018 has 4 MA's), (129, 47138), (206, 47309), (210, 47330),

Gene: Zeeculate_77 Start: 48542, Stop: 48138, Start Num: 63

Candidate Starts for Zeeculate_77:

(Start: 63 @48542 has 65 MA's), (Start: 64 @48530 has 4 MA's), (91, 48467), (116, 48410), (129, 48368), (162, 48284), (164, 48278), (166, 48275), (202, 48191),

Gene: Zeenon_16 Start: 5051, Stop: 5401, Start Num: 61

Candidate Starts for Zeenon_16:

(Start: 61 @5051 has 204 MA's), (Start: 64 @5066 has 4 MA's), (129, 5186), (166, 5264), (171, 5276), (173, 5279), (210, 5372),

Gene: Zeuska_66 Start: 43778, Stop: 43305, Start Num: 63

Candidate Starts for Zeuska_66:

(14, 43979), (43, 43835), (46, 43832), (Start: 63 @43778 has 65 MA's), (Start: 64 @43766 has 4 MA's),
(111, 43616), (112, 43613), (129, 43556), (144, 43493), (203, 43358), (208, 43325),

Gene: ZygoTaiga_15 Start: 5050, Stop: 5400, Start Num: 61

Candidate Starts for ZygoTaiga_15:

(Start: 61 @5050 has 204 MA's), (Start: 64 @5065 has 4 MA's), (129, 5185), (166, 5263), (171, 5275),
(173, 5278), (210, 5371),