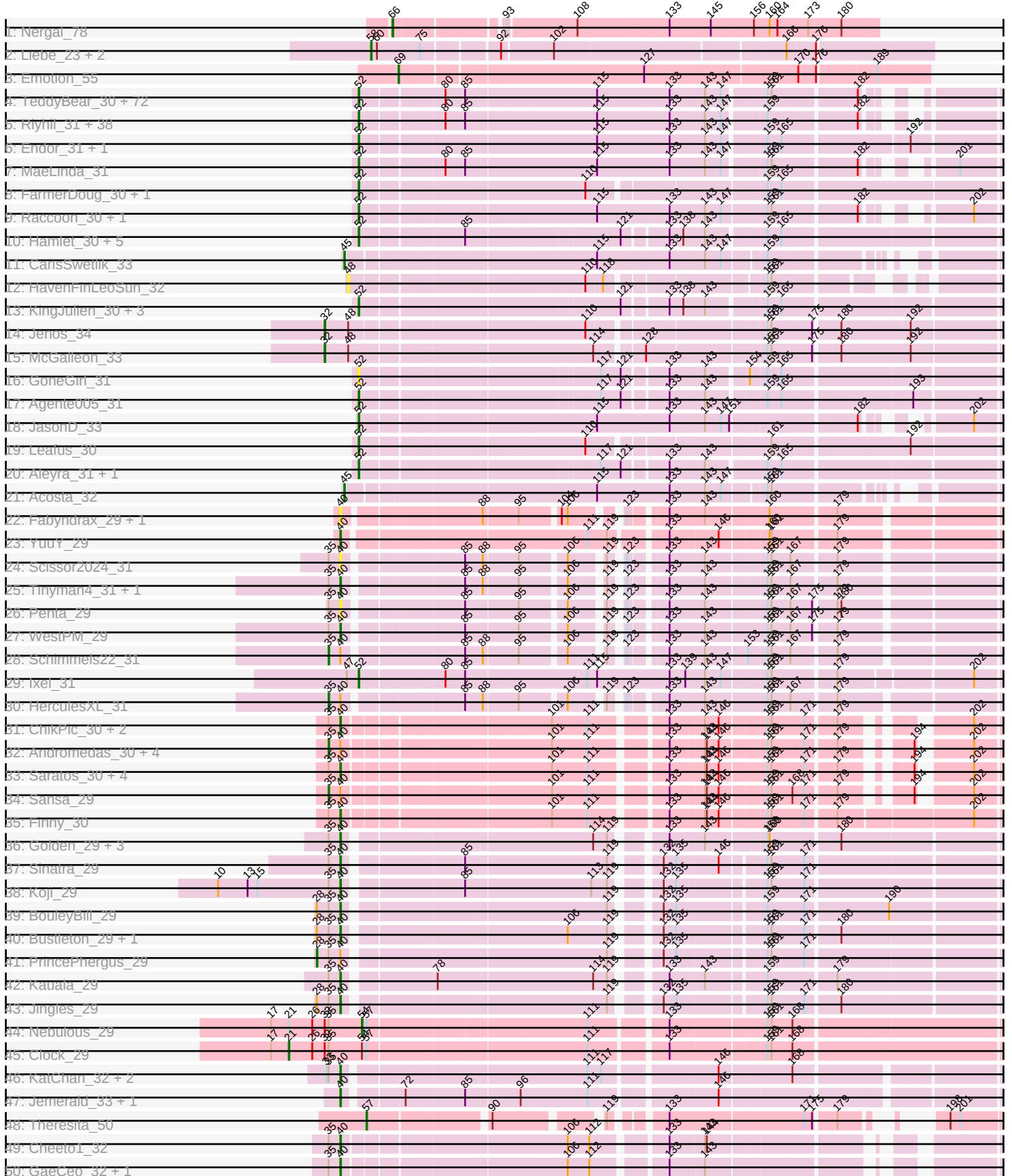
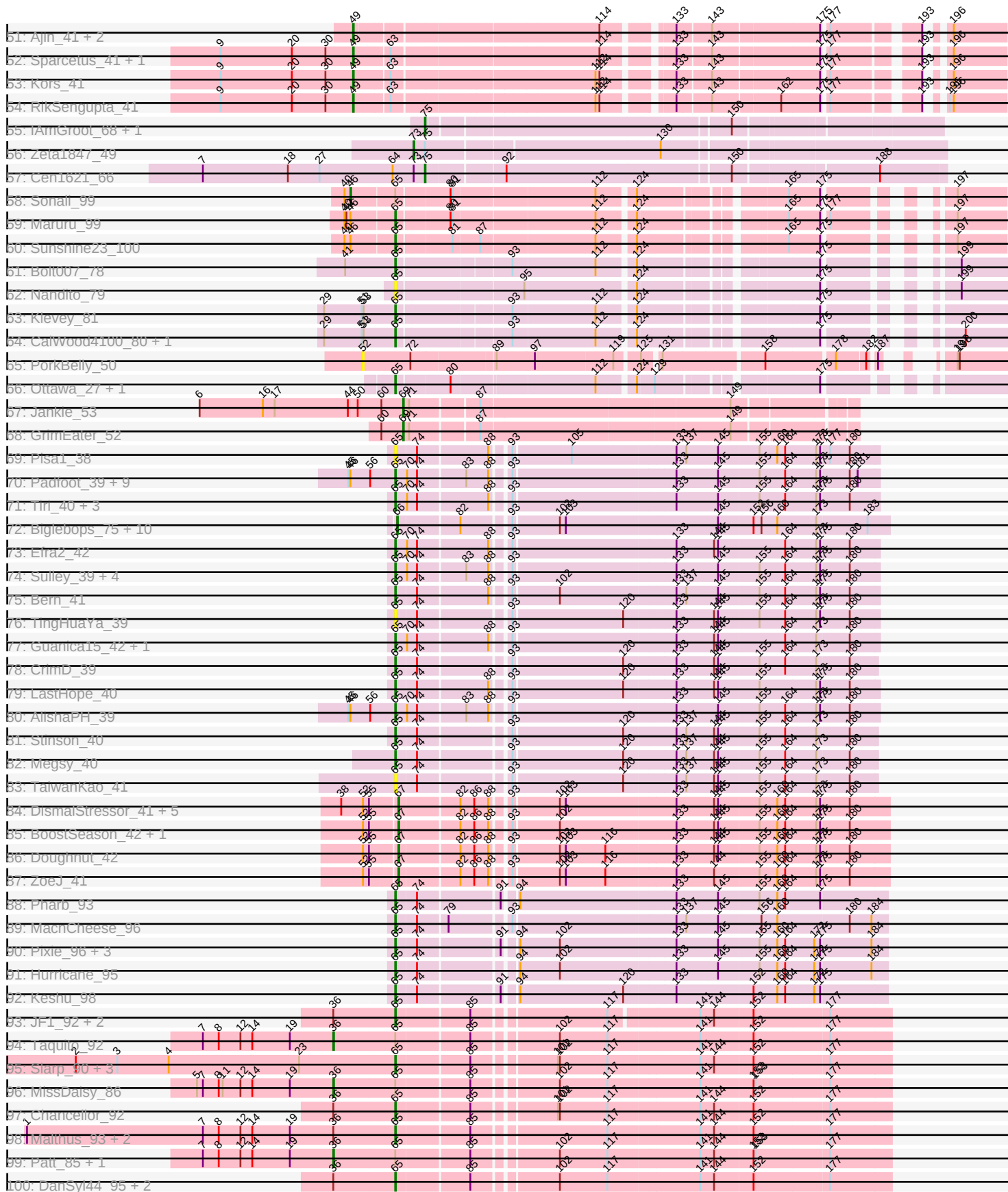


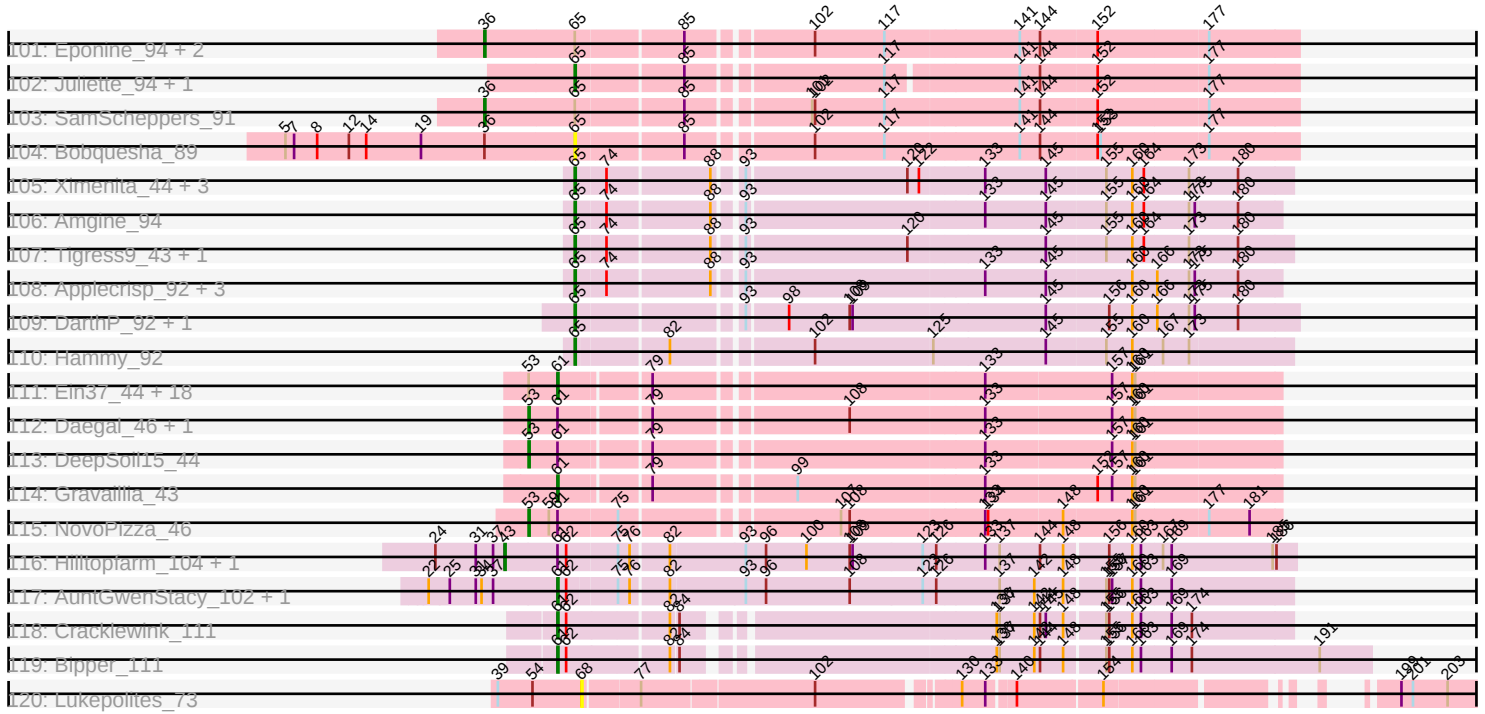
Pham 330374



Pham 330374



Pham 330374



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 330374 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330374 has 348 members, 26 are drafts.

Phages represented in each track:

- Track 1 : Nergal_78
- Track 2 : Liebe_23, IUFootball_23, Maureen_23
- Track 3 : Emotion_55
- Track 4 : TeddyBear_30, Etta_30, BeautPeep30_31, Phireproof_31, MillyPhilly_31, Kouch_30, SolidSnake_32, Shee_31, Tenda_30, Baines_30, Chako_30, Exploradora_30, Gelo_30, Ioannes_31, PhredFlintston_31, Gubbabump_30, HanSolo_30, SonOfLevi_30, Strathdee_31, Asta_30, Nattles_30, StirfryIV_30, AranulaLuti_30, TatarkaPM_31, Chamuel_30, TinSulphur_31, Clancy_30, Bonino_30, Rog141_30, Garey24_30, Calix_30, ParleG_31, Kale_30, Pocket_30, Dothraki_31, Klimt_30, Thompsonsone_31, Figueroism_31, ManRay_30, Phiderman_31, Erla_30, Duocatuli_30, Aubergine_30, Pherferi_31, Byron23_31, Gargoyle_31, Rapheph_31, Blage_31, BigRedClifford_31, Gershwin_30, Stanktossa_31, Knox_31, CoraRita_30, BonesMcCoy_31, Christoph_30, MrWorldwide_31, Raptor_31, Inventa_31, Espinosa_30, HankSprout_31, Jerbirus_31, Kurt1_31, Robinson_31, Janus167_30, KannH_30, GoingMerry_31, KellyGreen_31, Winzigespinne_30, NickSell_31, Martin_32, Convict_31, Oats_30, JasperRussell_30
- Track 5 : Rihhil_31, Antoinette_31, Symere_30, RosieMae_30, PuppyEggo_31, AlexAdler_31, WildNOut_31, SoilGremlin_31, Alyxandracam_31, AxiPup_31, Nagem_31, Peep_31, HungryHenry_30, Den3_31, Benjalauren_31, Lovelyunicorn_31, Greys_31, Zada_31, Ludgate_31, Bandik_31, JeriBeth_30, Phriends_31, Teagan_31, Superfresh_31, Delphidian_31, ShaiHulud_31, Papafritta_30, Sedgewig_30, Merida02_32, Thorongil_31, Velene_31, Oxtober96_31, Ilzat_30, Vispistious_31, OldNelly_31, Dave_31, SJay_31, StingRay_30, Renzie_31
- Track 6 : Endor_31, MonChoix_29
- Track 7 : MaeLinda_31
- Track 8 : FarmerDoug_30, Etna_30
- Track 9 : Raccoon_30, PhillyPhantom_30
- Track 10 : Hamlet_30, Schnapsidee_30, Balsa_30, Peppino_30, Redfield_30, BeeBee8_31
- Track 11 : CarisSwetlik_33
- Track 12 : HavenFinLeoSun_32
- Track 13 : KingJulien_30, GardenB_30, Stormbreaker8_30, Soror1_30
- Track 14 : Jenos_34
- Track 15 : McGalleon_33
- Track 16 : GoneGirl_31
- Track 17 : Agente005_31
- Track 18 : JasonD_33

- Track 19 : Leafus_30
- Track 20 : Aleyra_31, Anilorac_30
- Track 21 : Acosta_32
- Track 22 : Fabyndrax_29, Cidela_29
- Track 23 : YuuY_29
- Track 24 : Scissor2024_31
- Track 25 : Tinyman4_31, Kavo_30
- Track 26 : Penta_29
- Track 27 : WestPM_29
- Track 28 : Schimmels22_31
- Track 29 : Ixel_31
- Track 30 : HerculesXL_31
- Track 31 : ChikPic_30, Phanita_30, MCubed_30
- Track 32 : Andromedas_30, Glamour_29, ColaCorta_30, Eleri_30, PSirce_30
- Track 33 : Saratos_30, Shamu_30, Xebius_30, Orpington_31, Zenitsu_30
- Track 34 : Sansa_29
- Track 35 : Finny_30
- Track 36 : Golden_29, Lucky3_29, Guetzie_29, SirVictor_29
- Track 37 : Sinatra_29
- Track 38 : Koji_29
- Track 39 : BouleyBill_29
- Track 40 : Bustleton_29, Pherbot_29
- Track 41 : PrincePhergus_29
- Track 42 : Kauala_29
- Track 43 : Jingles_29
- Track 44 : Nebulous_29
- Track 45 : Clock_29
- Track 46 : KatChan_32, Luna18_32, Chepli_32
- Track 47 : Jemerald_33, Juicer_33
- Track 48 : Theresita_50
- Track 49 : Cheeto1_32
- Track 50 : GaeCeo_32, ChickenKing_31
- Track 51 : Ajin_41, Bramble_41, LordBart_41
- Track 52 : Sparcetus_41, TinyMiny_41
- Track 53 : Kors_41
- Track 54 : RikSengupta_41
- Track 55 : IAmGroot_68, GardenState_69
- Track 56 : Zeta1847_49
- Track 57 : Cen1621_66
- Track 58 : Sonali_99
- Track 59 : Maruru_99
- Track 60 : Sunshine23_100
- Track 61 : Bolt007_78
- Track 62 : Nandito_79
- Track 63 : Klevey_81
- Track 64 : CalWood4100_80, Lilmac1015_80
- Track 65 : PorkBelly_50
- Track 66 : Ottawa_27, Kharcho_27
- Track 67 : Jankie_53
- Track 68 : GrimEater_52
- Track 69 : Pisa1_38
- Track 70 : Padfoot_39, CaseJules_40, Blizzard_39, BEEST_39, Asayake_39, ShiaSurprise_40, Durfee_39, Piatt_39, Boiii_39, Hyperbowlee_39

- Track 71 : Tiri_40, Adonis_39, CheetoDust_38, BaghaKamala_38
- Track 72 : Biglebops_75, Nikao_78, Torres_78, SgtBeansprout_76, LilPharaoh_76, Trice_75, Enkosi_77, Amelie_75, Nutello_75, Teejan_77, Mdavu_76
- Track 73 : Efra2_42
- Track 74 : Sulley_39, QuincyRose_38, Angelica_39, Ganymede_40, Deby_39
- Track 75 : Bern_41
- Track 76 : TingHuaYa_39
- Track 77 : Guanica15_42, Yunkel11_42
- Track 78 : CrimD_39
- Track 79 : LastHope_40
- Track 80 : AlishaPH_39
- Track 81 : Stinson_40
- Track 82 : Megsy_40
- Track 83 : TaiwanKao_41
- Track 84 : DismalStressor_41, Findley_41, Marcoliusprime_41, Milly_41, Strobilo_41, DismalFunk_41
- Track 85 : BoostSeason_42, Mufasa_42
- Track 86 : Doughnut_42
- Track 87 : ZoeJ_41
- Track 88 : Pharb_93
- Track 89 : MacnCheese_96
- Track 90 : Pixie_96, TBond007_93, Lea83_95, ShedlockHolmes_97
- Track 91 : Hurricane_95
- Track 92 : Keshu_98
- Track 93 : JF1_92, Y10_88, Y2_88
- Track 94 : Taquito_92
- Track 95 : Slarp_90, Qhanda_92, Cheetobro_90, Mitti_92
- Track 96 : MissDaisy_86
- Track 97 : Chancellor_92
- Track 98 : Malthus_93, Kraw_92, Wintermute_92
- Track 99 : Patt_85, Reptar3000_86
- Track 100 : DanSyl44_95, YasnayaPolyana_91, Fionnbharth_92
- Track 101 : Eponine_94, OmniCritical_92, Lebo14_91
- Track 102 : Juliette_94, Ruthiejr_94
- Track 103 : SamScheppers_91
- Track 104 : Bobquesha_89
- Track 105 : Ximenita_44, Sunflower1121_42, Shadow1_42, Syra333_43
- Track 106 : Amgine_94
- Track 107 : Tigress9_43, Krueger_43
- Track 108 : Applecrisp_92, Ellie_93, Lavahound_93, Fefferhead_95
- Track 109 : DarthP_92, Amohnition_92
- Track 110 : Hammy_92
- Track 111 : Ein37_44, Hadrien_44, Kinbote_44, Ubuntu_44, Dewey_42, Hail_42, Luna22_42, Wishmaker_42, Amymech_44, Amochick_44, Webster2_44, LilHazelNut_44, OBUpride_44, Giles_42, BloominB_43, Forge_42, Evanesce_43, HH92_43, Luke_44
- Track 112 : Daegal_46, Gancho_43
- Track 113 : DeepSoil15_44
- Track 114 : Gravaillia_43
- Track 115 : NovoPizza_46
- Track 116 : Hilltopfarm_104, Faiyaz_102
- Track 117 : AuntGwenStacy_102, Typha_101
- Track 118 : Cracklewink_111

- Track 119 : Bipper_111
- Track 120 : Lukepolites_73

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

The start number called the most often in the published annotations is 52, it was called in 129 of the 322 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agente005_31, AlexAdler_31, Aleyra_31, Alyxandracam_31, Anilorac_30, Antoinette_31, AranulaLuti_30, Asta_30, Aubergine_30, AxiPup_31, Baines_30, Balsa_30, Bandik_31, BeautPeep30_31, BeeBee8_31, Benjalauren_31, BigRedClifford_31, Blage_31, BonesMcCoy_31, Bonino_30, Byron23_31, Calix_30, Chako_30, Chamuel_30, Christoph_30, Clancy_30, Convict_31, CoraRita_30, Dave_31, Delphidian_31, Den3_31, Dothraki_31, Duocatuli_30, Endor_31, Erla_30, Espinosa_30, Etna_30, Etta_30, Exploradora_30, FarmerDoug_30, Figueroism_31, GardenB_30, Garey24_30, Gargoyle_31, Gelo_30, Gershwin_30, GoingMerry_31, GoneGirl_31, Greys_31, Gubbabump_30, Hamlet_30, HanSolo_30, HankSprout_31, HungryHenry_30, Ilzat_30, Inventa_31, Ioannes_31, Ixel_31, Janus167_30, JasonD_33, JasperRussell_30, Jerbirus_31, JeriBeth_30, Kale_30, KannH_30, KellyGreen_31, KingJulien_30, Klimt_30, Knox_31, Kouch_30, Kurt1_31, Leafus_30, Lovelyunicorn_31, Ludgate_31, MaeLinda_31, ManRay_30, Martin_32, Merida02_32, MillyPhilly_31, MonChoix_29, MrWorldwide_31, Nagem_31, Nattles_30, NickSell_31, Oats_30, OldNelly_31, Oxtober96_31, Papafritta_30, ParleG_31, Peep_31, Peppino_30, Pherferi_31, Phiderman_31, PhillyPhantom_30, Phireproof_31, PhredFlintston_31, Phriends_31, Pocket_30, PorkBelly_50, PuppyEggo_31, Raccoon_30, Rapheph_31, Raptor_31, Redfield_30, Renzie_31, Riyhil_31, Robinson_31, Rog141_30, RosieMae_30, SJay_31, Schnapsidee_30, Sedgewig_30, ShaiHulud_31, Shee_31, SoilGremlin_31, SolidSnake_32, SonOfLevi_30, Soror1_30, Stanktossa_31, StingRay_30, StirfryIV_30, Stormbreaker8_30, Strathdee_31, Superfresh_31, Symere_30, TatarkaPM_31, Teagan_31, TeddyBear_30, Tenda_30, Thompsonsone_31, Thorongil_31, TinSulphur_31, Velene_31, Vispistious_31, WildNOut_31, Winzigespinne_30, Zada_31,

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

- BoostSeason_42, DismalFunk_41, DismalStressor_41, Doughnut_42, Findley_41, Marcoliusprime_41, Milly_41, Mufasa_42, Strobilo_41, ZoeJ_41,

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

- Acosta_32, Adonis_39, Ajin_41, AlishaPH_39, Amelie_75, Amgine_94, Amochick_44, Amohnition_92, Amymech_44, Andromedas_30, Angelica_39, Applecrisp_92, Asayake_39, AuntGwenStacy_102, BEEST_39, BaghaKamala_38, Bern_41, Binglebops_75, Bipper_111, Blizzard_39, BloominB_43, Bobquesha_89, Boiiii_39, Bolt007_78, BouleyBill_29, Bramble_41, Bustleton_29, CalWood4100_80, CarisSwetlik_33, CaseJules_40, Cen1621_66, Chancellor_92, Cheeto1_32, CheetoDust_38, Cheetobro_90, Chepli_32, ChickenKing_31, ChikPic_30, Cidela_29, Clock_29, ColaCorta_30, Cracklewink_111, CrimD_39, Daegal_46, DanSyl44_95, DarthP_92, Deby_39, DeepSoil15_44, Dewey_42, Durfee_39, Efra2_42, Ein37_44, Eleri_30, Ellie_93, Emotion_55, Enkosi_77, Eponine_94, Evanesce_43, Fabyndrax_29, Faiyaz_102, Fefferhead_95, Finny_30, Fionnbharth_92, Forge_42,

GaeCeo_32, Gancho_43, Ganymede_40, GardenState_69, Giles_42, Glamour_29, Golden_29, Gravallia_43, GrimEater_52, Guanica15_42, Guetzie_29, HH92_43, Hadrien_44, Hail_42, Hammy_92, HavenFinLeoSun_32, HerculesXL_31, Hilltopfarm_104, Hurricane_95, Hyperbowlee_39, IAmGroot_68, IUFootball_23, JF1_92, Jankie_53, Jemerald_33, Jenos_34, Jingles_29, Juicer_33, Juliette_94, KatChan_32, Kauala_29, Kavo_30, Keshu_98, Kharcho_27, Kinbote_44, Klevey_81, Koji_29, Kors_41, Kraw_92, Krueger_43, LastHope_40, Lavahound_93, Lea83_95, Lebo14_91, Liebe_23, LilHazelnut_44, LilPharaoh_76, Lilmac1015_80, LordBart_41, Lucky3_29, Luke_44, Lukepolites_73, Luna18_32, Luna22_42, MCubed_30, MacnCheese_96, Malthus_93, Maruru_99, Maureen_23, McGalleon_33, Mdavu_76, Megsy_40, MissDaisy_86, Mitti_92, Nandito_79, Nebulous_29, Nergal_78, Nikao_78, NovoPizza_46, Nutello_75, OBUpride_44, OmniCritical_92, Orpington_31, Ottawa_27, PSirce_30, Padfoot_39, Patt_85, Penta_29, Phanita_30, Pharb_93, Pherbot_29, Piatt_39, Pisa1_38, Pixie_96, PrincePhergus_29, Qhanda_92, QuincyRose_38, Reptar3000_86, RikSengupta_41, Ruthiejr_94, SamScheppers_91, Sansa_29, Saratos_30, Schimmels22_31, Scissor2024_31, SgtBeansprout_76, Shadow1_42, Shamu_30, ShedlockHolmes_97, ShiaSurprise_40, Sinatra_29, SirVictor_29, Slarp_90, Sonali_99, Sparcetis_41, Stinson_40, Sulley_39, Sunflower1121_42, Sunshine23_100, Syra333_43, TBond007_93, TaiwanKao_41, Taquito_92, Teejan_77, Theresita_50, Tigress9_43, TingHuaYa_39, TinyMiny_41, Tinyman4_31, Tiri_40, Torres_78, Trice_75, Typha_101, Ubuntu_44, Webster2_44, WestPM_29, Wintermute_92, Wishmaker_42, Xebius_30, Ximenita_44, Y10_88, Y2_88, YasnayaPolyana_91, Yunkel11_42, YuyuY_29, Zenitsu_30, Zeta1847_49,

Summary by start number:

Start 21:

- Found in 2 of 348 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Clock_29 (EA5),

Start 28:

- Found in 5 of 348 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 20.0% of time when present
- Phage (with cluster) where this start called: PrincePhergus_29 (EA4),

Start 32:

- Found in 4 of 348 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 322
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Jenos_34 (EA1), McGalleon_33 (EA1),

Start 35:

- Found in 42 of 348 (12.1%) of genes in pham
- Manual Annotations of this start: 8 of 322
- Called 19.0% of time when present
- Phage (with cluster) where this start called: Andromedas_30 (EA2), ColaCorta_30 (EA2), Eleri_30 (EA2), Glamour_29 (EA2), HerculesXL_31 (EA11), PSirce_30 (EA2), Sansa_29 (EA2), Schimmels22_31 (EA11),

Start 36:

- Found in 19 of 348 (5.5%) of genes in pham
- Manual Annotations of this start: 8 of 322
- Called 42.1% of time when present
- Phage (with cluster) where this start called: Eponine_94 (K4), Lebo14_91 (K4), MissDaisy_86 (K4), OmniCritical_92 (K4), Patt_85 (K4), Reptar3000_86 (K4), SamScheppers_91 (K4), Taquito_92 (K4),

Start 40:

- Found in 48 of 348 (13.8%) of genes in pham
- Manual Annotations of this start: 30 of 322
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BouleyBill_29 (EA4), Bustleton_29 (EA4), Cheeto1_32 (EA9), Chepli_32 (EA6), ChickenKing_31 (EA9), ChikPic_30 (EA2), Cidela_29 (EA10), Fabyndrax_29 (EA10), Finny_30 (EA2), GaeCeo_32 (EA9), Golden_29 (EA4), Guetzie_29 (EA4), Jemerald_33 (EA6), Jingles_29 (EA4), Juicer_33 (EA6), KatChan_32 (EA6), Kauala_29 (EA4), Kavo_30 (EA11), Koji_29 (EA4), Lucky3_29 (EA4), Luna18_32 (EA6), MCubed_30 (EA2), Orpington_31 (EA2), Penta_29 (EA11), Phanita_30 (EA2), Pherbot_29 (EA4), Saratos_30 (EA2), Scissor2024_31 (EA11), Shamu_30 (EA2), Sinatra_29 (EA4), SirVictor_29 (EA4), Tinyman4_31 (EA11), WestPM_29 (EA11), Xebius_30 (EA2), YuuY_29 (EA10), Zenitsu_30 (EA2),

Start 43:

- Found in 2 of 348 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faiyaz_102 (Y), Hilltopfarm_104 (Y),

Start 45:

- Found in 13 of 348 (3.7%) of genes in pham
- Manual Annotations of this start: 2 of 322
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Acosta_32 (EA1), CarisSwetlik_33 (EA1),

Start 46:

- Found in 14 of 348 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Sonali_99 (FG),

Start 48:

- Found in 3 of 348 (0.9%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: HavenFinLeoSun_32 (EA1),

Start 49:

- Found in 7 of 348 (2.0%) of genes in pham
- Manual Annotations of this start: 7 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ajin_41 (EF), Bramble_41 (EF), Kors_41 (EF), LordBart_41 (EF), RikSengupta_41 (EF), Sparcetus_41 (EF), TinyMiny_41 (EF),

Start 52:

- Found in 147 of 348 (42.2%) of genes in pham
- Manual Annotations of this start: 129 of 322
- Called 93.2% of time when present
- Phage (with cluster) where this start called: Agente005_31 (EA1), AlexAdler_31 (EA1), Aleyra_31 (EA1), Alyxandracam_31 (EA1), Anilorac_30 (EA1), Antoinette_31 (EA1), AranulaLuti_30 (EA1), Asta_30 (EA1), Aubergine_30 (EA1), AxiPup_31 (EA1), Baines_30 (EA1), Balsa_30 (EA1), Bandik_31 (EA1), BeautPeep30_31 (EA1), BeeBee8_31 (EA1), Benjalauren_31 (EA1), BigRedClifford_31 (EA1), Blage_31 (EA1), BonesMcCoy_31 (EA1), Bonino_30 (EA1), Byron23_31 (EA1), Calix_30 (EA1), Chako_30 (EA1), Chamuel_30 (EA1), Christoph_30 (EA1), Clancy_30 (EA1), Convict_31 (EA1), CoraRita_30 (EA1), Dave_31 (EA1), Delphidian_31 (EA1), Den3_31 (EA1), Dothraki_31 (EA1), Duocatuli_30 (EA1), Endor_31 (EA1), Erla_30 (EA1), Espinosa_30 (EA1), Etna_30 (EA1), Etta_30 (EA1), Exploradora_30 (EA1), FarmerDoug_30 (EA1), Figueroism_31 (EA1), GardenB_30 (EA1), Garey24_30 (EA1), Gargoyle_31 (EA1), Gelo_30 (EA1), Gershwin_30 (EA1), GoingMerry_31 (EA1), GoneGirl_31 (EA1), Greys_31 (EA1), Gubbabump_30 (EA1), Hamlet_30 (EA1), HanSolo_30 (EA1), HankSprout_31 (EA1), HungryHenry_30 (EA1), Ilzat_30 (EA1), Inventa_31 (EA1), Ioannes_31 (EA1), Ixel_31 (EA1), Janus167_30 (EA1), JasonD_33 (EA1), JasperRussell_30 (EA1), Jerbirus_31 (EA1), JeriBeth_30 (EA1), Kale_30 (EA1), KannH_30 (EA1), KellyGreen_31 (EA1), KingJulien_30 (EA1), Klimt_30 (EA1), Knox_31 (EA1), Kouch_30 (EA1), Kurt1_31 (EA1), Leafus_30 (EA1), Lovelyunicorn_31 (EA1), Ludgate_31 (EA1), MaeLinda_31 (EA1), ManRay_30 (EA1), Martin_32 (EA1), Merida02_32 (EA1), MillyPhilly_31 (EA1), MonChoix_29 (EA1), MrWorldwide_31 (EA1), Nagem_31 (EA1), Nattles_30 (EA1), NickSell_31 (EA1), Oats_30 (EA1), OldNelly_31 (EA1), Oxtobor96_31 (EA1), Papafritta_30 (EA1), ParleG_31 (EA1), Peep_31 (EA1), Peppino_30 (EA1), Pherferi_31 (EA1), Phiderman_31 (EA1), PhillyPhantom_30 (EA1), Phireproof_31 (EA1), PhredFlintston_31 (EA1), Phriends_31 (EA1), Pocket_30 (EA1), PorkBelly_50 (FJ), PuppyEggo_31 (EA1), Raccoon_30 (EA1), Rapheph_31 (EA1), Raptor_31 (EA1), Redfield_30 (EA1), Renzie_31 (EA1), Riyhil_31 (EA1), Robinson_31 (EA1), Rog141_30 (EA1), RosieMae_30 (EA1), SJay_31 (EA1), Schnapsidee_30 (EA1), Sedgewig_30 (EA1), ShaiHulud_31 (EA1), Shee_31 (EA1), SoilGremlin_31 (EA1), SolidSnake_32 (EA1), SonOfLevi_30 (EA1), Soror1_30 (EA1), Stanktossa_31 (EA1), StingRay_30 (EA1), StirfryIV_30 (EA1), Stormbreaker8_30 (EA1), Strathdee_31 (EA1), Superfresh_31 (EA1), Symere_30 (EA1), TatarkaPM_31 (EA1), Teagan_31 (EA1), TeddyBear_30 (EA1), Tenda_30 (EA1), Thompsone_31 (EA1), Thorongil_31 (EA1), TinSulphur_31 (EA1), Velene_31 (EA1), Vispistious_31 (EA1), WildNOut_31 (EA1), Winzigespinne_30 (EA1), Zada_31 (EA1),

Start 53:

- Found in 26 of 348 (7.5%) of genes in pham
- Manual Annotations of this start: 4 of 322
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Daegal_46 (Q), DeepSoil15_44 (Q), Gancho_43 (Q), NovoPizza_46 (Q),

Start 54:

- Found in 3 of 348 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Nebulous_29 (EA5),

Start 57:

- Found in 3 of 348 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Theresita_50 (EA7),

Start 58:

- Found in 3 of 348 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IUFootball_23 (AZ2), Liebe_23 (AZ2), Maureen_23 (AZ2),

Start 61:

- Found in 30 of 348 (8.6%) of genes in pham
- Manual Annotations of this start: 24 of 322
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Amochick_44 (Q), Amymech_44 (Q), AuntGwenStacy_102 (Y), Bipper_111 (Y), BloominB_43 (Q), Cracklewink_111 (Y), Dewey_42 (Q), Ein37_44 (Q), Evanesce_43 (Q), Forge_42 (Q), Giles_42 (Q), Gravaiilia_43 (Q), HH92_43 (Q), Hadrien_44 (Q), Hail_42 (Q), Kinbote_44 (Q), LilHazelNut_44 (Q), Luke_44 (Q), Luna22_42 (Q), OBUpriide_44 (Q), Typha_101 (Y), Ubuntu_44 (Q), Webster2_44 (Q), Wishmaker_42 (Q),

Start 65:

- Found in 88 of 348 (25.3%) of genes in pham
- Manual Annotations of this start: 71 of 322
- Called 89.8% of time when present
- Phage (with cluster) where this start called: Adonis_39 (K1), AlishaPH_39 (K1), Amgine_94 (K6), Amohnition_92 (K6), Angelica_39 (K1), Applecrisp_92 (K6), Asayake_39 (K1), BEEST_39 (K1), BaghaKamala_38 (K1), Bern_41 (K1), Blizzard_39 (K1), Bobquesha_89 (K4), Boiii_39 (K1), Bolt007_78 (FH), CalWood4100_80 (FH), CaseJules_40 (K1), Chancellor_92 (K4), CheetoDust_38 (K1), Cheetobro_90 (K4), CrimD_39 (K1), DanSyl44_95 (K4), DarthP_92 (K6), Deby_39 (K1), Durfee_39 (K1), Efra2_42 (K1), Ellie_93 (K6), Fefferhead_95 (K6), Fionnbharth_92 (K4), Ganymede_40 (K1), Guanica15_42 (K1), Hammy_92 (K6), Hurricane_95 (K3), Hyperbowlee_39 (K1), JF1_92 (K4), Juliette_94 (K4), Keshu_98 (K3), Kharcho_27 (FM), Klevey_81 (FH), Kraw_92 (K4), Krueger_43 (K6), LastHope_40 (K1), Lavahound_93 (K6), Lea83_95 (K3), Lilmac1015_80 (FH), MacnCheese_96 (K3), Malthus_93 (K4), Maruru_99 (FG), Megsy_40 (K1), Mitti_92 (K4), Nandito_79 (FH), Ottawa_27 (FM), Padfoot_39 (K1), Pharb_93 (K3), Piatt_39 (K1), Pisa1_38 (K1), Pixie_96 (K3), Qhanda_92 (K4), QuincyRose_38 (K1), Ruthiejr_94 (K4), Shadow1_42 (K6), ShedlockHolmes_97 (K3), ShiaSurprise_40 (K1), Slarp_90 (K4), Stinson_40 (K1), Sulley_39 (K1), Sunflower1121_42 (K6), Sunshine23_100 (FG), Syra333_43 (K6), TBond007_93 (K3), TaiwanKao_41 (K1), Tigress9_43 (K6), TingHuaYa_39 (K1), Tiri_40 (K1), Wintermute_92 (K4), Ximenita_44 (K6), Y10_88 (K4), Y2_88 (K4), YasnayaPolyana_91 (K4), Yunkel11_42 (K1),

Start 66:

- Found in 12 of 348 (3.4%) of genes in pham
- Manual Annotations of this start: 10 of 322

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelie_75 (K1), Binglebops_75 (K1), Enkosi_77 (K1), LilPharaoh_76 (K1), Mdavu_76 (K1), Nergal_78 (AG), Nikao_78 (K1), Nutello_75 (K1), SgtBeansprout_76 (K1), Teejan_77 (K1), Torres_78 (K1), Trice_75 (K1),

Start 67:

- Found in 10 of 348 (2.9%) of genes in pham
- Manual Annotations of this start: 10 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_42 (K2), DismalFunk_41 (K2), DismalStressor_41 (K2), Doughnut_42 (K2), Findley_41 (K2), Marcoliusprime_41 (K2), Milly_41 (K2), Mufasa_42 (K2), Strobilo_41 (K2), ZoeJ_41 (K2),

Start 68:

- Found in 1 of 348 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lukepolites_73 (singleton),

Start 69:

- Found in 3 of 348 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emotion_55 (AZ4), GrimEater_52 (FP), Jankie_53 (FP),

Start 73:

- Found in 2 of 348 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zeta1847_49 (EH),

Start 75:

- Found in 12 of 348 (3.4%) of genes in pham
- Manual Annotations of this start: 3 of 322
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Cen1621_66 (EH), GardenState_69 (EH), IAmGroot_68 (EH),

Summary by clusters:

There are 27 clusters represented in this pham: FP, singleton, K4, K3, K2, K1, EA1, K6, FG, FH, FJ, FM, EH, AG, EF, EA9, Y, EA2, EA5, EA4, EA7, EA6, Q, EA11, EA10, AZ2, AZ4,

Info for manual annotations of cluster AG:

- Start number 66 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AZ2:

- Start number 58 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ4:

- Start number 69 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster EA1:

- Start number 32 was manually annotated 2 times for cluster EA1.
- Start number 45 was manually annotated 2 times for cluster EA1.
- Start number 52 was manually annotated 128 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 40 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 35 was manually annotated 2 times for cluster EA11.
- Start number 40 was manually annotated 3 times for cluster EA11.
- Start number 52 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 35 was manually annotated 6 times for cluster EA2.
- Start number 40 was manually annotated 7 times for cluster EA2.

Info for manual annotations of cluster EA4:

- Start number 28 was manually annotated 1 time for cluster EA4.
- Start number 40 was manually annotated 11 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 21 was manually annotated 1 time for cluster EA5.
- Start number 54 was manually annotated 1 time for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 40 was manually annotated 5 times for cluster EA6.

Info for manual annotations of cluster EA7:

- Start number 57 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA9:

- Start number 40 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EF:

- Start number 49 was manually annotated 7 times for cluster EF.

Info for manual annotations of cluster EH:

- Start number 73 was manually annotated 1 time for cluster EH.
- Start number 75 was manually annotated 3 times for cluster EH.

Info for manual annotations of cluster FG:

- Start number 46 was manually annotated 1 time for cluster FG.
- Start number 65 was manually annotated 2 times for cluster FG.

Info for manual annotations of cluster FH:

- Start number 65 was manually annotated 3 times for cluster FH.

Info for manual annotations of cluster FM:

- Start number 65 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FP:

- Start number 69 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster K1:

- Start number 65 was manually annotated 28 times for cluster K1.
- Start number 66 was manually annotated 9 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 67 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 65 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 36 was manually annotated 8 times for cluster K4.
- Start number 65 was manually annotated 14 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 65 was manually annotated 14 times for cluster K6.

Info for manual annotations of cluster Q:

- Start number 53 was manually annotated 4 times for cluster Q.
- Start number 61 was manually annotated 20 times for cluster Q.

Info for manual annotations of cluster Y:

- Start number 43 was manually annotated 2 times for cluster Y.
- Start number 61 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: Acosta_32 Start: 22079, Stop: 21225, Start Num: 45

Candidate Starts for Acosta_32:

(Start: 45 @22079 has 2 MA's), (115, 21731), (133, 21623), (143, 21572), (147, 21548), (159, 21494), (161, 21488),

Gene: Adonis_39 Start: 31362, Stop: 32051, Start Num: 65

Candidate Starts for Adonis_39:

(Start: 65 @31362 has 71 MA's), (70, 31377), (74, 31392), (88, 31494), (93, 31515), (133, 31752), (145, 31815), (155, 31875), (164, 31914), (173, 31959), (175, 31965), (180, 32007),

Gene: Agente005_31 Start: 22035, Stop: 21148, Start Num: 52

Candidate Starts for Agente005_31:

(Start: 52 @22035 has 129 MA's), (117, 21705), (121, 21678), (133, 21618), (143, 21564), (159, 21486), (165, 21465), (193, 21279),

Gene: Ajin_41 Start: 25676, Stop: 26536, Start Num: 49

Candidate Starts for Ajin_41:

(Start: 49 @25676 has 7 MA's), (114, 26015), (133, 26102), (143, 26150), (175, 26303), (177, 26309), (193, 26423), (196, 26441),

Gene: AlexAdler_31 Start: 21787, Stop: 20945, Start Num: 52

Candidate Starts for AlexAdler_31:

(Start: 52 @21787 has 129 MA's), (80, 21673), (85, 21643), (115, 21454), (133, 21346), (143, 21295), (147, 21271), (159, 21217), (182, 21094),

Gene: Aleyra_31 Start: 22040, Stop: 21153, Start Num: 52

Candidate Starts for Aleyra_31:

(Start: 52 @22040 has 129 MA's), (117, 21710), (121, 21683), (133, 21623), (143, 21569), (159, 21491), (165, 21470),

Gene: AlishaPH_39 Start: 31339, Stop: 32028, Start Num: 65

Candidate Starts for AlishaPH_39:

(Start: 45 @31270 has 2 MA's), (Start: 46 @31273 has 1 MA's), (56, 31303), (Start: 65 @31339 has 71 MA's), (70, 31354), (74, 31369), (83, 31438), (88, 31471), (93, 31492), (133, 31729), (145, 31792), (155, 31852), (164, 31891), (173, 31936), (175, 31942), (180, 31984),

Gene: Alyxandracam_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Alyxandracam_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Amelie_75 Start: 54769, Stop: 55470, Start Num: 66

Candidate Starts for Amelie_75:

(Start: 66 @54769 has 10 MA's), (82, 54856), (93, 54919), (102, 54985), (103, 54994), (145, 55219), (152, 55270), (156, 55282), (160, 55306), (173, 55363), (183, 55438),

Gene: Amgine_94 Start: 60238, Stop: 60927, Start Num: 65

Candidate Starts for Amgine_94:

(Start: 65 @60238 has 71 MA's), (74, 60268), (88, 60370), (93, 60391), (133, 60628), (145, 60691), (155, 60751), (160, 60778), (164, 60790), (173, 60835), (175, 60841), (180, 60883),

Gene: Amochick_44 Start: 34132, Stop: 33431, Start Num: 61

Candidate Starts for Amochick_44:

(Start: 53 @34162 has 4 MA's), (Start: 61 @34132 has 24 MA's), (79, 34048), (133, 33730), (157, 33601), (160, 33580), (161, 33577),

Gene: Amohnition_92 Start: 59731, Stop: 60438, Start Num: 65

Candidate Starts for Amohnition_92:

(Start: 65 @59731 has 71 MA's), (93, 59884), (98, 59923), (108, 59986), (109, 59989), (145, 60184), (156, 60247), (160, 60271), (166, 60295), (173, 60328), (175, 60334), (180, 60376),

Gene: Amymech_44 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Amymech_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Andromedas_30 Start: 21852, Stop: 20983, Start Num: 35

Candidate Starts for Andromedas_30:

(Start: 35 @21852 has 8 MA's), (Start: 40 @21834 has 30 MA's), (101, 21549), (111, 21495), (133, 21396), (143, 21348), (144, 21345), (146, 21327), (159, 21264), (161, 21258), (171, 21210), (179, 21168), (194, 21093), (202, 21030),

Gene: Angelica_39 Start: 31296, Stop: 31985, Start Num: 65

Candidate Starts for Angelica_39:

(Start: 65 @31296 has 71 MA's), (70, 31311), (74, 31326), (83, 31395), (88, 31428), (93, 31449), (133, 31686), (145, 31749), (155, 31809), (164, 31848), (173, 31893), (175, 31899), (180, 31941),

Gene: Anilorac_30 Start: 21879, Stop: 20992, Start Num: 52

Candidate Starts for Anilorac_30:

(Start: 52 @21879 has 129 MA's), (117, 21549), (121, 21522), (133, 21462), (143, 21408), (159, 21330), (165, 21309),

Gene: Antoinette_31 Start: 21784, Stop: 20942, Start Num: 52

Candidate Starts for Antoinette_31:

(Start: 52 @21784 has 129 MA's), (80, 21670), (85, 21640), (115, 21451), (133, 21343), (143, 21292), (147, 21268), (159, 21214), (182, 21091),

Gene: Applecrisp_92 Start: 59957, Stop: 60646, Start Num: 65

Candidate Starts for Applecrisp_92:

(Start: 65 @59957 has 71 MA's), (74, 59987), (88, 60089), (93, 60110), (133, 60347), (145, 60410), (160, 60497), (166, 60521), (173, 60554), (175, 60560), (180, 60602),

Gene: AranulaLuti_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for AranulaLuti_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Asayake_39 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for Asayake_39:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: Asta_30 Start: 21611, Stop: 20769, Start Num: 52

Candidate Starts for Asta_30:

(Start: 52 @21611 has 129 MA's), (80, 21497), (85, 21467), (115, 21278), (133, 21170), (143, 21119), (147, 21095), (159, 21041), (161, 21035), (182, 20918),

Gene: Aubergine_30 Start: 21611, Stop: 20769, Start Num: 52

Candidate Starts for Aubergine_30:

(Start: 52 @21611 has 129 MA's), (80, 21497), (85, 21467), (115, 21278), (133, 21170), (143, 21119), (147, 21095), (159, 21041), (161, 21035), (182, 20918),

Gene: AuntGwenStacy_102 Start: 63239, Stop: 63973, Start Num: 61

Candidate Starts for AuntGwenStacy_102:

(22, 63107), (25, 63128), (31, 63155), (34, 63161), (37, 63173), (Start: 61 @63239 has 24 MA's), (62, 63248), (Start: 75 @63296 has 3 MA's), (76, 63308), (82, 63344), (93, 63419), (96, 63440), (108, 63527), (123, 63602), (126, 63614), (137, 63677), (142, 63713), (148, 63743), (155, 63782), (156, 63785), (157, 63788), (160, 63809), (163, 63818), (169, 63848),

Gene: AxiPup_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for AxiPup_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: BEEST_39 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for BEEST_39:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: BaghaKamala_38 Start: 30505, Stop: 31194, Start Num: 65

Candidate Starts for BaghaKamala_38:

(Start: 65 @30505 has 71 MA's), (70, 30520), (74, 30535), (88, 30637), (93, 30658), (133, 30895), (145, 30958), (155, 31018), (164, 31057), (173, 31102), (175, 31108), (180, 31150),

Gene: Baines_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Baines_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Balsa_30 Start: 21873, Stop: 20986, Start Num: 52

Candidate Starts for Balsa_30:

(Start: 52 @21873 has 129 MA's), (85, 21729), (121, 21516), (133, 21456), (138, 21435), (143, 21402), (159, 21324), (165, 21303),

Gene: Bandik_31 Start: 21792, Stop: 20950, Start Num: 52

Candidate Starts for Bandik_31:

(Start: 52 @21792 has 129 MA's), (80, 21678), (85, 21648), (115, 21459), (133, 21351), (143, 21300), (147, 21276), (159, 21222), (182, 21099),

Gene: BeautPeep30_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for BeautPeep30_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: BeeBee8_31 Start: 22040, Stop: 21153, Start Num: 52

Candidate Starts for BeeBee8_31:

(Start: 52 @22040 has 129 MA's), (85, 21896), (121, 21683), (133, 21623), (138, 21602), (143, 21569), (159, 21491), (165, 21470),

Gene: Benjalauren_31 Start: 21608, Stop: 20766, Start Num: 52

Candidate Starts for Benjalauren_31:

(Start: 52 @21608 has 129 MA's), (80, 21494), (85, 21464), (115, 21275), (133, 21167), (143, 21116), (147, 21092), (159, 21038), (182, 20915),

Gene: Bern_41 Start: 31642, Stop: 32331, Start Num: 65

Candidate Starts for Bern_41:

(Start: 65 @31642 has 71 MA's), (74, 31672), (88, 31774), (93, 31795), (102, 31861), (133, 32032), (137, 32047), (145, 32095), (155, 32155), (164, 32194), (173, 32239), (175, 32245), (180, 32287),

Gene: BigRedClifford_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for BigRedClifford_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: Biglebops_75 Start: 54784, Stop: 55485, Start Num: 66

Candidate Starts for Biglebops_75:

(Start: 66 @54784 has 10 MA's), (82, 54871), (93, 54934), (102, 55000), (103, 55009), (145, 55234), (152, 55285), (156, 55297), (160, 55321), (173, 55378), (183, 55453),

Gene: Bipper_111 Start: 66961, Stop: 67743, Start Num: 61

Candidate Starts for Bipper_111:

(Start: 61 @66961 has 24 MA's), (62, 66970), (82, 67069), (84, 67075), (136, 67363), (137, 67366), (142, 67402), (144, 67408), (148, 67432), (155, 67471), (156, 67474), (160, 67498), (163, 67507), (169, 67537), (174, 67558), (191, 67690),

Gene: Blage_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Blage_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: Blizzard_39 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for Blizzard_39:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: BloominB_43 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for BloominB_43:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Bobquesha_89 Start: 53116, Stop: 53823, Start Num: 65

Candidate Starts for Bobquesha_89:

(5, 52819), (7, 52828), (8, 52852), (12, 52885), (14, 52903), (19, 52960), (Start: 36 @53026 has 8 MA's), (Start: 65 @53116 has 71 MA's), (85, 53221), (102, 53335), (117, 53407), (141, 53542), (144, 53563), (152, 53620), (153, 53623), (177, 53731),

Gene: Boiiii_39 Start: 31382, Stop: 32071, Start Num: 65

Candidate Starts for Boiiii_39:

(Start: 45 @31313 has 2 MA's), (Start: 46 @31316 has 1 MA's), (56, 31346), (Start: 65 @31382 has 71 MA's), (70, 31397), (74, 31412), (83, 31481), (88, 31514), (93, 31535), (133, 31772), (145, 31835), (155, 31895), (164, 31934), (173, 31979), (175, 31985), (180, 32027), (181, 32039),

Gene: Bolt007_78 Start: 49680, Stop: 48901, Start Num: 65

Candidate Starts for Bolt007_78:

(41, 49755), (Start: 65 @49680 has 71 MA's), (93, 49521), (112, 49398), (124, 49347), (175, 49119), (199, 48990),

Gene: BonesMcCoy_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for BonesMcCoy_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: Bonino_30 Start: 21587, Stop: 20745, Start Num: 52

Candidate Starts for Bonino_30:

(Start: 52 @21587 has 129 MA's), (80, 21473), (85, 21443), (115, 21254), (133, 21146), (143, 21095), (147, 21071), (159, 21017), (161, 21011), (182, 20894),

Gene: BoostSeason_42 Start: 32103, Stop: 32801, Start Num: 67

Candidate Starts for BoostSeason_42:

(Start: 52 @32055 has 129 MA's), (55, 32064), (Start: 67 @32103 has 10 MA's), (82, 32187), (86, 32208), (88, 32229), (93, 32250), (102, 32316), (133, 32487), (144, 32544), (145, 32550), (155, 32610), (160, 32637), (164, 32649), (173, 32694), (175, 32700), (180, 32742),

Gene: BouleyBill_29 Start: 21683, Stop: 20790, Start Num: 40

Candidate Starts for BouleyBill_29:

(Start: 28 @21719 has 1 MA's), (Start: 35 @21701 has 8 MA's), (Start: 40 @21683 has 30 MA's), (119, 21317), (132, 21266), (135, 21248), (159, 21131), (171, 21077), (190, 20957),

Gene: Bramble_41 Start: 25636, Stop: 26496, Start Num: 49

Candidate Starts for Bramble_41:

(Start: 49 @25636 has 7 MA's), (114, 25975), (133, 26062), (143, 26110), (175, 26263), (177, 26269), (193, 26383), (196, 26401),

Gene: Bustleton_29 Start: 21683, Stop: 20790, Start Num: 40

Candidate Starts for Bustleton_29:

(Start: 28 @21719 has 1 MA's), (Start: 35 @21701 has 8 MA's), (Start: 40 @21683 has 30 MA's), (106, 21377), (119, 21317), (132, 21266), (135, 21248), (159, 21131), (161, 21125), (171, 21077), (180, 21029),

Gene: Byron23_31 Start: 21801, Stop: 20959, Start Num: 52

Candidate Starts for Byron23_31:

(Start: 52 @21801 has 129 MA's), (80, 21687), (85, 21657), (115, 21468), (133, 21360), (143, 21309), (147, 21285), (159, 21231), (161, 21225), (182, 21108),

Gene: CalWood4100_80 Start: 49859, Stop: 49071, Start Num: 65

Candidate Starts for CalWood4100_80:

(29, 49967), (51, 49910), (Start: 53 @49907 has 4 MA's), (Start: 65 @49859 has 71 MA's), (93, 49700), (112, 49577), (124, 49526), (175, 49295), (200, 49157),

Gene: Calix_30 Start: 21591, Stop: 20749, Start Num: 52

Candidate Starts for Calix_30:

(Start: 52 @21591 has 129 MA's), (80, 21477), (85, 21447), (115, 21258), (133, 21150), (143, 21099), (147, 21075), (159, 21021), (161, 21015), (182, 20898),

Gene: CarisSwetlik_33 Start: 22575, Stop: 21721, Start Num: 45

Candidate Starts for CarisSwetlik_33:

(Start: 45 @22575 has 2 MA's), (115, 22227), (133, 22119), (143, 22068), (147, 22044), (159, 21990),

Gene: CaseJules_40 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for CaseJules_40:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: Cen1621_66 Start: 44317, Stop: 45051, Start Num: 75

Candidate Starts for Cen1621_66:

(7, 43984), (18, 44113), (27, 44161), (64, 44272), (Start: 73 @44302 has 1 MA's), (Start: 75 @44317 has 3 MA's), (92, 44425), (150, 44752), (188, 44953),

Gene: Chako_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Chako_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Chamuel_30 Start: 21593, Stop: 20751, Start Num: 52

Candidate Starts for Chamuel_30:

(Start: 52 @21593 has 129 MA's), (80, 21479), (85, 21449), (115, 21260), (133, 21152), (143, 21101), (147, 21077), (159, 21023), (161, 21017), (182, 20900),

Gene: Chancellor_92 Start: 55691, Stop: 56398, Start Num: 65

Candidate Starts for Chancellor_92:

(Start: 36 @55601 has 8 MA's), (Start: 65 @55691 has 71 MA's), (85, 55796), (101, 55907), (102, 55910), (117, 55982), (141, 56117), (144, 56138), (152, 56195), (177, 56306),

Gene: Cheeto1_32 Start: 22256, Stop: 21414, Start Num: 40

Candidate Starts for Cheeto1_32:

(Start: 35 @22274 has 8 MA's), (Start: 40 @22256 has 30 MA's), (106, 21947), (112, 21914), (133, 21818), (143, 21770), (144, 21767),

Gene: CheetoDust_38 Start: 30553, Stop: 31242, Start Num: 65

Candidate Starts for CheetoDust_38:

(Start: 65 @30553 has 71 MA's), (70, 30568), (74, 30583), (88, 30685), (93, 30706), (133, 30943), (145, 31006), (155, 31066), (164, 31105), (173, 31150), (175, 31156), (180, 31198),

Gene: Cheetobro_90 Start: 55247, Stop: 55954, Start Num: 65

Candidate Starts for Cheetobro_90:

(2, 54764), (3, 54827), (4, 54905), (23, 55103), (Start: 65 @55247 has 71 MA's), (85, 55352), (101, 55463), (102, 55466), (117, 55538), (141, 55673), (144, 55694), (152, 55751), (177, 55862),

Gene: Chepli_32 Start: 21461, Stop: 20565, Start Num: 40

Candidate Starts for Chepli_32:

(33, 21482), (Start: 35 @21479 has 8 MA's), (Start: 40 @21461 has 30 MA's), (111, 21125), (117, 21104), (146, 20954), (168, 20855),

Gene: ChickenKing_31 Start: 22169, Stop: 21327, Start Num: 40

Candidate Starts for ChickenKing_31:

(Start: 35 @22187 has 8 MA's), (Start: 40 @22169 has 30 MA's), (106, 21860), (112, 21827), (133, 21731), (143, 21683),

Gene: ChikPic_30 Start: 21850, Stop: 20999, Start Num: 40

Candidate Starts for ChikPic_30:

(Start: 35 @21868 has 8 MA's), (Start: 40 @21850 has 30 MA's), (101, 21565), (111, 21511), (133, 21412), (143, 21364), (146, 21343), (159, 21280), (161, 21274), (171, 21226), (179, 21184), (202, 21046),

Gene: Christoph_30 Start: 21609, Stop: 20767, Start Num: 52

Candidate Starts for Christoph_30:

(Start: 52 @21609 has 129 MA's), (80, 21495), (85, 21465), (115, 21276), (133, 21168), (143, 21117), (147, 21093), (159, 21039), (161, 21033), (182, 20916),

Gene: Cidela_29 Start: 22469, Stop: 21609, Start Num: 40

Candidate Starts for Cidela_29:

(Start: 40 @22469 has 30 MA's), (88, 22280), (95, 22232), (104, 22181), (106, 22172), (123, 22115), (133, 22070), (143, 22019), (160, 21932), (179, 21839),

Gene: Clancy_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Clancy_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Clock_29 Start: 22434, Stop: 21424, Start Num: 21

Candidate Starts for Clock_29:

(17, 22461), (Start: 21 @22434 has 1 MA's), (26, 22398), (Start: 32 @22380 has 2 MA's), (Start: 35 @22374 has 8 MA's), (Start: 54 @22323 has 1 MA's), (Start: 57 @22317 has 1 MA's), (111, 22005), (133, 21903), (159, 21771), (161, 21765), (168, 21735),

Gene: ColaCorta_30 Start: 21852, Stop: 20983, Start Num: 35

Candidate Starts for ColaCorta_30:

(Start: 35 @21852 has 8 MA's), (Start: 40 @21834 has 30 MA's), (101, 21549), (111, 21495), (133, 21396), (143, 21348), (144, 21345), (146, 21327), (159, 21264), (161, 21258), (171, 21210), (179, 21168), (194, 21093), (202, 21030),

Gene: Convict_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Convict_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: CoraRita_30 Start: 21607, Stop: 20765, Start Num: 52

Candidate Starts for CoraRita_30:

(Start: 52 @21607 has 129 MA's), (80, 21493), (85, 21463), (115, 21274), (133, 21166), (143, 21115), (147, 21091), (159, 21037), (161, 21031), (182, 20914),

Gene: Cracklewink_111 Start: 66196, Stop: 66897, Start Num: 61

Candidate Starts for Cracklewink_111:

(Start: 61 @66196 has 24 MA's), (62, 66205), (82, 66304), (84, 66310), (136, 66598), (137, 66601), (142, 66637), (144, 66643), (145, 66649), (148, 66667), (155, 66706), (156, 66709), (160, 66733), (163, 66742), (169, 66772), (174, 66793),

Gene: CrimD_39 Start: 31313, Stop: 31999, Start Num: 65

Candidate Starts for CrimD_39:

(Start: 65 @31313 has 71 MA's), (74, 31343), (93, 31466), (120, 31628), (133, 31703), (144, 31760), (145, 31766), (155, 31826), (164, 31865), (173, 31910), (180, 31958),

Gene: Daegal_46 Start: 34740, Stop: 34009, Start Num: 53

Candidate Starts for Daegal_46:

(Start: 53 @34740 has 4 MA's), (Start: 61 @34710 has 24 MA's), (79, 34626), (108, 34443), (133, 34308), (157, 34179), (160, 34158), (161, 34155),

Gene: DanSyl44_95 Start: 57077, Stop: 57784, Start Num: 65

Candidate Starts for DanSyl44_95:

(Start: 36 @56987 has 8 MA's), (Start: 65 @57077 has 71 MA's), (85, 57182), (102, 57296), (117, 57368), (141, 57503), (144, 57524), (152, 57581), (177, 57692),

Gene: DarthP_92 Start: 59564, Stop: 60271, Start Num: 65

Candidate Starts for DarthP_92:

(Start: 65 @59564 has 71 MA's), (93, 59717), (98, 59756), (108, 59819), (109, 59822), (145, 60017), (156, 60080), (160, 60104), (166, 60128), (173, 60161), (175, 60167), (180, 60209),

Gene: Dave_31 Start: 21784, Stop: 20942, Start Num: 52

Candidate Starts for Dave_31:

(Start: 52 @21784 has 129 MA's), (80, 21670), (85, 21640), (115, 21451), (133, 21343), (143, 21292), (147, 21268), (159, 21214), (182, 21091),

Gene: Deby_39 Start: 31314, Stop: 32003, Start Num: 65

Candidate Starts for Deby_39:

(Start: 65 @31314 has 71 MA's), (70, 31329), (74, 31344), (83, 31413), (88, 31446), (93, 31467), (133, 31704), (145, 31767), (155, 31827), (164, 31866), (173, 31911), (175, 31917), (180, 31959),

Gene: DeepSoil15_44 Start: 34156, Stop: 33425, Start Num: 53

Candidate Starts for DeepSoil15_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Delphidian_31 Start: 21795, Stop: 20953, Start Num: 52

Candidate Starts for Delphidian_31:

(Start: 52 @21795 has 129 MA's), (80, 21681), (85, 21651), (115, 21462), (133, 21354), (143, 21303), (147, 21279), (159, 21225), (182, 21102),

Gene: Den3_31 Start: 21800, Stop: 20958, Start Num: 52

Candidate Starts for Den3_31:

(Start: 52 @21800 has 129 MA's), (80, 21686), (85, 21656), (115, 21467), (133, 21359), (143, 21308), (147, 21284), (159, 21230), (182, 21107),

Gene: Dewey_42 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Dewey_42:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: DismalFunk_41 Start: 32195, Stop: 32893, Start Num: 67

Candidate Starts for DismalFunk_41:

(38, 32114), (Start: 52 @32147 has 129 MA's), (55, 32156), (Start: 67 @32195 has 10 MA's), (82, 32279), (86, 32300), (88, 32321), (93, 32342), (102, 32408), (103, 32417), (133, 32579), (144, 32636), (145, 32642), (155, 32702), (160, 32729), (164, 32741), (173, 32786), (175, 32792), (180, 32834),

Gene: DismalStressor_41 Start: 32195, Stop: 32893, Start Num: 67

Candidate Starts for DismalStressor_41:

(38, 32114), (Start: 52 @32147 has 129 MA's), (55, 32156), (Start: 67 @32195 has 10 MA's), (82, 32279), (86, 32300), (88, 32321), (93, 32342), (102, 32408), (103, 32417), (133, 32579), (144, 32636), (145, 32642), (155, 32702), (160, 32729), (164, 32741), (173, 32786), (175, 32792), (180, 32834),

Gene: Dothraki_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Dothraki_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Doughnut_42 Start: 32090, Stop: 32788, Start Num: 67

Candidate Starts for Doughnut_42:

(Start: 52 @32042 has 129 MA's), (55, 32051), (Start: 67 @32090 has 10 MA's), (82, 32174), (86, 32195), (88, 32216), (93, 32237), (102, 32303), (103, 32312), (116, 32372), (133, 32474), (144, 32531), (145, 32537), (155, 32597), (160, 32624), (164, 32636), (173, 32681), (175, 32687), (180,

32729),

Gene: Duocatuli_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Duocatuli_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Durfee_39 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for Durfee_39:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: Efra2_42 Start: 31156, Stop: 31845, Start Num: 65

Candidate Starts for Efra2_42:

(Start: 65 @31156 has 71 MA's), (70, 31171), (74, 31186), (88, 31288), (93, 31309), (133, 31546), (144, 31603), (145, 31609), (164, 31708), (173, 31753), (175, 31759), (180, 31801),

Gene: Ein37_44 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Ein37_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Eleri_30 Start: 21865, Stop: 20996, Start Num: 35

Candidate Starts for Eleri_30:

(Start: 35 @21865 has 8 MA's), (Start: 40 @21847 has 30 MA's), (101, 21562), (111, 21508), (133, 21409), (143, 21361), (144, 21358), (146, 21340), (159, 21277), (161, 21271), (171, 21223), (179, 21181), (194, 21106), (202, 21043),

Gene: Ellie_93 Start: 59948, Stop: 60637, Start Num: 65

Candidate Starts for Ellie_93:

(Start: 65 @59948 has 71 MA's), (74, 59978), (88, 60080), (93, 60101), (133, 60338), (145, 60401), (160, 60488), (166, 60512), (173, 60545), (175, 60551), (180, 60593),

Gene: Emotion_55 Start: 37527, Stop: 38288, Start Num: 69

Candidate Starts for Emotion_55:

(Start: 69 @37527 has 3 MA's), (127, 37878), (170, 38100), (176, 38127), (189, 38211),

Gene: Endor_31 Start: 22097, Stop: 21195, Start Num: 52

Candidate Starts for Endor_31:

(Start: 52 @22097 has 129 MA's), (115, 21764), (133, 21656), (143, 21605), (147, 21581), (159, 21527), (165, 21506), (192, 21329),

Gene: Enkosi_77 Start: 57382, Stop: 58083, Start Num: 66

Candidate Starts for Enkosi_77:

(Start: 66 @57382 has 10 MA's), (82, 57469), (93, 57532), (102, 57598), (103, 57607), (145, 57832), (152, 57883), (156, 57895), (160, 57919), (173, 57976), (183, 58051),

Gene: Eponine_94 Start: 56581, Stop: 57378, Start Num: 36

Candidate Starts for Eponine_94:

(Start: 36 @56581 has 8 MA's), (Start: 65 @56671 has 71 MA's), (85, 56776), (102, 56890), (117, 56962), (141, 57097), (144, 57118), (152, 57175), (177, 57286),

Gene: Erla_30 Start: 21591, Stop: 20749, Start Num: 52

Candidate Starts for Erla_30:

(Start: 52 @21591 has 129 MA's), (80, 21477), (85, 21447), (115, 21258), (133, 21150), (143, 21099), (147, 21075), (159, 21021), (161, 21015), (182, 20898),

Gene: Espinosa_30 Start: 21609, Stop: 20767, Start Num: 52

Candidate Starts for Espinosa_30:

(Start: 52 @21609 has 129 MA's), (80, 21495), (85, 21465), (115, 21276), (133, 21168), (143, 21117), (147, 21093), (159, 21039), (161, 21033), (182, 20916),

Gene: Etna_30 Start: 21878, Stop: 20988, Start Num: 52

Candidate Starts for Etna_30:

(Start: 52 @21878 has 129 MA's), (110, 21563), (159, 21329), (165, 21308),

Gene: Etta_30 Start: 21595, Stop: 20753, Start Num: 52

Candidate Starts for Etta_30:

(Start: 52 @21595 has 129 MA's), (80, 21481), (85, 21451), (115, 21262), (133, 21154), (143, 21103), (147, 21079), (159, 21025), (161, 21019), (182, 20902),

Gene: Evanesce_43 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Evanesce_43:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Exploradora_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Exploradora_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Fabyndrax_29 Start: 22469, Stop: 21609, Start Num: 40

Candidate Starts for Fabyndrax_29:

(Start: 40 @22469 has 30 MA's), (88, 22280), (95, 22232), (104, 22181), (106, 22172), (123, 22115), (133, 22070), (143, 22019), (160, 21932), (179, 21839),

Gene: Faiyaz_102 Start: 63140, Stop: 63934, Start Num: 43

Candidate Starts for Faiyaz_102:

(24, 63068), (31, 63110), (37, 63128), (Start: 43 @63140 has 2 MA's), (Start: 61 @63194 has 24 MA's), (62, 63203), (Start: 75 @63254 has 3 MA's), (76, 63266), (82, 63302), (93, 63377), (96, 63398), (100, 63440), (108, 63485), (109, 63488), (123, 63560), (126, 63572), (133, 63620), (137, 63635), (144, 63677), (148, 63701), (156, 63743), (160, 63767), (163, 63776), (167, 63797), (169, 63806), (185, 63911), (186, 63914),

Gene: FarmerDoug_30 Start: 21737, Stop: 20847, Start Num: 52

Candidate Starts for FarmerDoug_30:

(Start: 52 @21737 has 129 MA's), (110, 21422), (159, 21188), (165, 21167),

Gene: Fefferhead_95 Start: 59369, Stop: 60058, Start Num: 65

Candidate Starts for Fefferhead_95:

(Start: 65 @59369 has 71 MA's), (74, 59399), (88, 59501), (93, 59522), (133, 59759), (145, 59822), (160, 59909), (166, 59933), (173, 59966), (175, 59972), (180, 60014),

Gene: Figueroism_31 Start: 21783, Stop: 20941, Start Num: 52

Candidate Starts for Figueroism_31:

(Start: 52 @21783 has 129 MA's), (80, 21669), (85, 21639), (115, 21450), (133, 21342), (143, 21291), (147, 21267), (159, 21213), (161, 21207), (182, 21090),

Gene: Findley_41 Start: 32188, Stop: 32886, Start Num: 67

Candidate Starts for Findley_41:

(38, 32107), (Start: 52 @32140 has 129 MA's), (55, 32149), (Start: 67 @32188 has 10 MA's), (82, 32272), (86, 32293), (88, 32314), (93, 32335), (102, 32401), (103, 32410), (133, 32572), (144, 32629), (145, 32635), (155, 32695), (160, 32722), (164, 32734), (173, 32779), (175, 32785), (180, 32827),

Gene: Finny_30 Start: 21887, Stop: 20979, Start Num: 40

Candidate Starts for Finny_30:

(Start: 35 @21905 has 8 MA's), (Start: 40 @21887 has 30 MA's), (101, 21602), (111, 21548), (133, 21449), (143, 21401), (144, 21398), (146, 21380), (159, 21317), (161, 21311), (171, 21263), (179, 21221), (202, 21026),

Gene: Fionnbharth_92 Start: 56069, Stop: 56776, Start Num: 65

Candidate Starts for Fionnbharth_92:

(Start: 36 @55979 has 8 MA's), (Start: 65 @56069 has 71 MA's), (85, 56174), (102, 56288), (117, 56360), (141, 56495), (144, 56516), (152, 56573), (177, 56684),

Gene: Forge_42 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Forge_42:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: GaeCeo_32 Start: 22405, Stop: 21563, Start Num: 40

Candidate Starts for GaeCeo_32:

(Start: 35 @22423 has 8 MA's), (Start: 40 @22405 has 30 MA's), (106, 22096), (112, 22063), (133, 21967), (143, 21919),

Gene: Gancho_43 Start: 33879, Stop: 33148, Start Num: 53

Candidate Starts for Gancho_43:

(Start: 53 @33879 has 4 MA's), (Start: 61 @33849 has 24 MA's), (79, 33765), (108, 33582), (133, 33447), (157, 33318), (160, 33297), (161, 33294),

Gene: Ganymede_40 Start: 31369, Stop: 32058, Start Num: 65

Candidate Starts for Ganymede_40:

(Start: 65 @31369 has 71 MA's), (70, 31384), (74, 31399), (83, 31468), (88, 31501), (93, 31522), (133, 31759), (145, 31822), (155, 31882), (164, 31921), (173, 31966), (175, 31972), (180, 32014),

Gene: GardenB_30 Start: 21876, Stop: 20989, Start Num: 52

Candidate Starts for GardenB_30:

(Start: 52 @21876 has 129 MA's), (121, 21519), (133, 21459), (138, 21438), (143, 21405), (159, 21327), (165, 21306),

Gene: GardenState_69 Start: 42002, Stop: 42718, Start Num: 75

Candidate Starts for GardenState_69:

(Start: 75 @42002 has 3 MA's), (150, 42431),

Gene: Garey24_30 Start: 21574, Stop: 20732, Start Num: 52

Candidate Starts for Garey24_30:

(Start: 52 @21574 has 129 MA's), (80, 21460), (85, 21430), (115, 21241), (133, 21133), (143, 21082), (147, 21058), (159, 21004), (161, 20998), (182, 20881),

Gene: Gargoyle_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Gargoyle_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Gelo_30 Start: 21595, Stop: 20753, Start Num: 52

Candidate Starts for Gelo_30:

(Start: 52 @21595 has 129 MA's), (80, 21481), (85, 21451), (115, 21262), (133, 21154), (143, 21103), (147, 21079), (159, 21025), (161, 21019), (182, 20902),

Gene: Gershwin_30 Start: 21611, Stop: 20769, Start Num: 52

Candidate Starts for Gershwin_30:

(Start: 52 @21611 has 129 MA's), (80, 21497), (85, 21467), (115, 21278), (133, 21170), (143, 21119), (147, 21095), (159, 21041), (161, 21035), (182, 20918),

Gene: Giles_42 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Giles_42:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Glamour_29 Start: 21853, Stop: 20984, Start Num: 35

Candidate Starts for Glamour_29:

(Start: 35 @21853 has 8 MA's), (Start: 40 @21835 has 30 MA's), (101, 21550), (111, 21496), (133, 21397), (143, 21349), (144, 21346), (146, 21328), (159, 21265), (161, 21259), (171, 21211), (179, 21169), (194, 21094), (202, 21031),

Gene: GoingMerry_31 Start: 21806, Stop: 20964, Start Num: 52

Candidate Starts for GoingMerry_31:

(Start: 52 @21806 has 129 MA's), (80, 21692), (85, 21662), (115, 21473), (133, 21365), (143, 21314), (147, 21290), (159, 21236), (161, 21230), (182, 21113),

Gene: Golden_29 Start: 21794, Stop: 20895, Start Num: 40

Candidate Starts for Golden_29:

(Start: 35 @21812 has 8 MA's), (Start: 40 @21794 has 30 MA's), (114, 21449), (119, 21428), (133, 21368), (143, 21320), (159, 21236), (160, 21233), (180, 21134),

Gene: GoneGirl_31 Start: 21925, Stop: 21038, Start Num: 52

Candidate Starts for GoneGirl_31:

(Start: 52 @21925 has 129 MA's), (117, 21595), (121, 21568), (133, 21508), (143, 21454), (154, 21400), (159, 21376), (165, 21355),

Gene: Gravaillia_43 Start: 34169, Stop: 33468, Start Num: 61

Candidate Starts for Gravaillia_43:

(Start: 61 @34169 has 24 MA's), (79, 34085), (99, 33956), (133, 33767), (152, 33653), (157, 33638), (160, 33617), (161, 33614),

Gene: Greys_31 Start: 21793, Stop: 20951, Start Num: 52

Candidate Starts for Greys_31:

(Start: 52 @21793 has 129 MA's), (80, 21679), (85, 21649), (115, 21460), (133, 21352), (143, 21301), (147, 21277), (159, 21223), (182, 21100),

Gene: GrimEater_52 Start: 36520, Stop: 37155, Start Num: 69

Candidate Starts for GrimEater_52:

(60, 36487), (Start: 69 @36520 has 3 MA's), (71, 36529), (87, 36625), (149, 36988),

Gene: Guanica15_42 Start: 31112, Stop: 31801, Start Num: 65

Candidate Starts for Guanica15_42:

(Start: 65 @31112 has 71 MA's), (70, 31127), (74, 31142), (88, 31244), (93, 31265), (133, 31502), (144, 31559), (145, 31565), (164, 31664), (173, 31709), (180, 31757),

Gene: Gubbabump_30 Start: 21600, Stop: 20758, Start Num: 52

Candidate Starts for Gubbabump_30:

(Start: 52 @21600 has 129 MA's), (80, 21486), (85, 21456), (115, 21267), (133, 21159), (143, 21108), (147, 21084), (159, 21030), (161, 21024), (182, 20907),

Gene: Guetzie_29 Start: 21782, Stop: 20883, Start Num: 40

Candidate Starts for Guetzie_29:

(Start: 35 @21800 has 8 MA's), (Start: 40 @21782 has 30 MA's), (114, 21437), (119, 21416), (133, 21356), (143, 21308), (159, 21224), (160, 21221), (180, 21122),

Gene: HH92_43 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for HH92_43:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Hadrien_44 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Hadrien_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Hail_42 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Hail_42:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Hamlet_30 Start: 21873, Stop: 20986, Start Num: 52

Candidate Starts for Hamlet_30:

(Start: 52 @21873 has 129 MA's), (85, 21729), (121, 21516), (133, 21456), (138, 21435), (143, 21402), (159, 21324), (165, 21303),

Gene: Hammy_92 Start: 59794, Stop: 60492, Start Num: 65

Candidate Starts for Hammy_92:

(Start: 65 @59794 has 71 MA's), (82, 59881), (102, 60010), (125, 60130), (145, 60244), (155, 60304), (160, 60331), (167, 60361), (173, 60388),

Gene: HanSolo_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for HanSolo_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: HankSprout_31 Start: 21478, Stop: 20636, Start Num: 52

Candidate Starts for HankSprout_31:

(Start: 52 @21478 has 129 MA's), (80, 21364), (85, 21334), (115, 21145), (133, 21037), (143, 20986), (147, 20962), (159, 20908), (161, 20902), (182, 20785),

Gene: HavenFinLeoSun_32 Start: 22031, Stop: 21207, Start Num: 48

Candidate Starts for HavenFinLeoSun_32:

(48, 22031), (110, 21701), (118, 21677), (159, 21476), (161, 21470),

Gene: HerculesXL_31 Start: 20731, Stop: 19856, Start Num: 35

Candidate Starts for HerculesXL_31:

(Start: 35 @20731 has 8 MA's), (Start: 40 @20713 has 30 MA's), (85, 20551), (88, 20527), (95, 20479), (106, 20419), (119, 20377), (123, 20362), (133, 20317), (143, 20266), (159, 20182), (161, 20176), (167, 20149), (179, 20086),

Gene: Hilltopfarm_104 Start: 63963, Stop: 64757, Start Num: 43

Candidate Starts for Hilltopfarm_104:

(24, 63891), (31, 63933), (37, 63951), (Start: 43 @63963 has 2 MA's), (Start: 61 @64017 has 24 MA's), (62, 64026), (Start: 75 @64077 has 3 MA's), (76, 64089), (82, 64125), (93, 64200), (96, 64221), (100, 64263), (108, 64308), (109, 64311), (123, 64383), (126, 64395), (133, 64443), (137, 64458), (144, 64500), (148, 64524), (156, 64566), (160, 64590), (163, 64599), (167, 64620), (169, 64629), (185, 64734), (186, 64737),

Gene: HungryHenry_30 Start: 21609, Stop: 20767, Start Num: 52

Candidate Starts for HungryHenry_30:

(Start: 52 @21609 has 129 MA's), (80, 21495), (85, 21465), (115, 21276), (133, 21168), (143, 21117), (147, 21093), (159, 21039), (182, 20916),

Gene: Hurricane_95 Start: 59141, Stop: 59839, Start Num: 65

Candidate Starts for Hurricane_95:

(Start: 65 @59141 has 71 MA's), (74, 59168), (94, 59297), (102, 59357), (133, 59528), (145, 59591), (155, 59651), (160, 59678), (164, 59690), (172, 59732), (175, 59741), (184, 59816),

Gene: Hyperbowlee_39 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for Hyperbowlee_39:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: IAmGroot_68 Start: 42211, Stop: 42927, Start Num: 75

Candidate Starts for IAmGroot_68:

(Start: 75 @42211 has 3 MA's), (150, 42640),

Gene: IUFootball_23 Start: 19676, Stop: 20467, Start Num: 58

Candidate Starts for IUFootball_23:

(Start: 58 @19676 has 3 MA's), (60, 19685), (Start: 75 @19748 has 3 MA's), (92, 19850), (102, 19925), (166, 20258), (176, 20297),

Gene: Ilzat_30 Start: 21608, Stop: 20766, Start Num: 52

Candidate Starts for Ilzat_30:

(Start: 52 @21608 has 129 MA's), (80, 21494), (85, 21464), (115, 21275), (133, 21167), (143, 21116), (147, 21092), (159, 21038), (182, 20915),

Gene: Inventa_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Inventa_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: loannes_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for loannes_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: Ixel_31 Start: 20664, Stop: 19759, Start Num: 52

Candidate Starts for Ixel_31:

(47, 20682), (Start: 52 @20664 has 129 MA's), (80, 20547), (85, 20517), (111, 20343), (115, 20328), (133, 20220), (139, 20199), (143, 20169), (147, 20145), (159, 20085), (161, 20079), (179, 19989), (202, 19806),

Gene: JF1_92 Start: 55993, Stop: 56691, Start Num: 65

Candidate Starts for JF1_92:

(Start: 36 @55903 has 8 MA's), (Start: 65 @55993 has 71 MA's), (85, 56098), (117, 56284), (141, 56410), (144, 56431), (152, 56488), (177, 56599),

Gene: Jankie_53 Start: 36702, Stop: 37337, Start Num: 69

Candidate Starts for Jankie_53:

(6, 36393), (16, 36489), (17, 36507), (44, 36618), (50, 36633), (60, 36669), (Start: 69 @36702 has 3 MA's), (71, 36711), (87, 36807), (149, 37170),

Gene: Janus167_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Janus167_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: JasonD_33 Start: 22235, Stop: 21387, Start Num: 52

Candidate Starts for JasonD_33:

(Start: 52 @22235 has 129 MA's), (115, 21902), (133, 21794), (143, 21743), (147, 21719), (151, 21707), (182, 21536), (202, 21434),

Gene: JasperRussell_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for JasperRussell_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Jemerald_33 Start: 22738, Stop: 21842, Start Num: 40

Candidate Starts for Jemerald_33:

(Start: 40 @22738 has 30 MA's), (72, 22663), (85, 22576), (96, 22504), (111, 22402), (146, 22231),

Gene: Jenos_34 Start: 22908, Stop: 21967, Start Num: 32

Candidate Starts for Jenos_34:

(Start: 32 @22908 has 2 MA's), (48, 22872), (110, 22542), (159, 22308), (161, 22302), (175, 22242), (180, 22206), (192, 22104),

Gene: Jerbirus_31 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Jerbirus_31:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: JeriBeth_30 Start: 21455, Stop: 20613, Start Num: 52

Candidate Starts for JeriBeth_30:

(Start: 52 @21455 has 129 MA's), (80, 21341), (85, 21311), (115, 21122), (133, 21014), (143, 20963), (147, 20939), (159, 20885), (182, 20762),

Gene: Jingles_29 Start: 21690, Stop: 20797, Start Num: 40

Candidate Starts for Jingles_29:

(Start: 28 @21726 has 1 MA's), (Start: 35 @21708 has 8 MA's), (Start: 40 @21690 has 30 MA's), (119, 21324), (132, 21273), (135, 21255), (159, 21138), (161, 21132), (171, 21084), (180, 21036),

Gene: Juicer_33 Start: 22738, Stop: 21842, Start Num: 40

Candidate Starts for Juicer_33:

(Start: 40 @22738 has 30 MA's), (72, 22663), (85, 22576), (96, 22504), (111, 22402), (146, 22231),

Gene: Juliette_94 Start: 56074, Stop: 56772, Start Num: 65

Candidate Starts for Juliette_94:

(Start: 65 @56074 has 71 MA's), (85, 56179), (117, 56365), (141, 56491), (144, 56512), (152, 56569), (177, 56680),

Gene: Kale_30 Start: 21613, Stop: 20771, Start Num: 52

Candidate Starts for Kale_30:

(Start: 52 @21613 has 129 MA's), (80, 21499), (85, 21469), (115, 21280), (133, 21172), (143, 21121), (147, 21097), (159, 21043), (161, 21037), (182, 20920),

Gene: KannH_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for KannH_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: KatChan_32 Start: 21467, Stop: 20571, Start Num: 40

Candidate Starts for KatChan_32:

(33, 21488), (Start: 35 @21485 has 8 MA's), (Start: 40 @21467 has 30 MA's), (111, 21131), (117, 21110), (146, 20960), (168, 20861),

Gene: Kauala_29 Start: 21686, Stop: 20793, Start Num: 40

Candidate Starts for Kauala_29:

(Start: 35 @21704 has 8 MA's), (Start: 40 @21686 has 30 MA's), (78, 21566), (114, 21341), (119, 21320), (133, 21260), (143, 21212), (159, 21134), (179, 21038),

Gene: Kavo_30 Start: 20550, Stop: 19693, Start Num: 40

Candidate Starts for Kavo_30:

(Start: 35 @20568 has 8 MA's), (Start: 40 @20550 has 30 MA's), (85, 20388), (88, 20364), (95, 20316), (106, 20256), (119, 20214), (123, 20199), (133, 20154), (143, 20103), (159, 20019), (161, 20013), (167, 19986), (179, 19923),

Gene: KellyGreen_31 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for KellyGreen_31:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Keshu_98 Start: 59072, Stop: 59770, Start Num: 65

Candidate Starts for Keshu_98:

(Start: 65 @59072 has 71 MA's), (74, 59099), (91, 59213), (94, 59228), (120, 59384), (133, 59459), (152, 59573), (160, 59609), (164, 59621), (172, 59663), (175, 59672),

Gene: Kharcho_27 Start: 10163, Stop: 10948, Start Num: 65

Candidate Starts for Kharcho_27:

(Start: 65 @10163 has 71 MA's), (80, 10238), (112, 10445), (124, 10496), (129, 10517), (175, 10727),

Gene: Kinbote_44 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Kinbote_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: KingJulien_30 Start: 21869, Stop: 20982, Start Num: 52

Candidate Starts for KingJulien_30:

(Start: 52 @21869 has 129 MA's), (121, 21512), (133, 21452), (138, 21431), (143, 21398), (159, 21320), (165, 21299),

Gene: Klevey_81 Start: 49956, Stop: 49168, Start Num: 65

Candidate Starts for Klevey_81:

(29, 50064), (51, 50007), (Start: 53 @50004 has 4 MA's), (Start: 65 @49956 has 71 MA's), (93, 49797), (112, 49674), (124, 49623), (175, 49392),

Gene: Klimt_30 Start: 21593, Stop: 20751, Start Num: 52

Candidate Starts for Klimt_30:

(Start: 52 @21593 has 129 MA's), (80, 21479), (85, 21449), (115, 21260), (133, 21152), (143, 21101), (147, 21077), (159, 21023), (161, 21017), (182, 20900),

Gene: Knox_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Knox_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: Koji_29 Start: 21812, Stop: 20919, Start Num: 40

Candidate Starts for Koji_29:

(10, 21998), (13, 21953), (15, 21938), (Start: 35 @21830 has 8 MA's), (Start: 40 @21812 has 30 MA's), (85, 21650), (113, 21470), (119, 21446), (132, 21395), (135, 21377), (159, 21260), (161, 21254), (171, 21206),

Gene: Kors_41 Start: 25717, Stop: 26583, Start Num: 49

Candidate Starts for Kors_41:

(9, 25516), (20, 25624), (30, 25675), (Start: 49 @25717 has 7 MA's), (63, 25768), (112, 26056), (114, 26062), (133, 26149), (143, 26197), (175, 26350), (177, 26356), (193, 26470), (196, 26488),

Gene: Kouch_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Kouch_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Kraw_92 Start: 55800, Stop: 56507, Start Num: 65

Candidate Starts for Kraw_92:

(1, 55245), (7, 55512), (8, 55536), (12, 55569), (14, 55587), (19, 55644), (Start: 36 @55710 has 8 MA's), (Start: 65 @55800 has 71 MA's), (85, 55905), (117, 56091), (141, 56226), (144, 56247), (152, 56304), (177, 56415),

Gene: Krueger_43 Start: 31392, Stop: 32093, Start Num: 65

Candidate Starts for Krueger_43:

(Start: 65 @31392 has 71 MA's), (74, 31422), (88, 31524), (93, 31545), (120, 31707), (145, 31845), (155, 31905), (160, 31932), (164, 31944), (173, 31989), (180, 32037),

Gene: Kurt1_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Kurt1_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: LastHope_40 Start: 30142, Stop: 30828, Start Num: 65

Candidate Starts for LastHope_40:

(Start: 65 @30142 has 71 MA's), (74, 30169), (88, 30271), (93, 30292), (120, 30454), (133, 30529), (144, 30586), (145, 30592), (155, 30652), (173, 30736), (175, 30742), (180, 30784),

Gene: Lavahound_93 Start: 60369, Stop: 61058, Start Num: 65

Candidate Starts for Lavahound_93:

(Start: 65 @60369 has 71 MA's), (74, 60399), (88, 60501), (93, 60522), (133, 60759), (145, 60822), (160, 60909), (166, 60933), (173, 60966), (175, 60972), (180, 61014),

Gene: Lea83_95 Start: 58899, Stop: 59597, Start Num: 65

Candidate Starts for Lea83_95:

(Start: 65 @58899 has 71 MA's), (74, 58926), (91, 59040), (94, 59055), (102, 59115), (133, 59286), (145, 59349), (155, 59409), (160, 59436), (164, 59448), (172, 59490), (175, 59499), (184, 59574),

Gene: Leafus_30 Start: 22011, Stop: 21124, Start Num: 52

Candidate Starts for Leafus_30:

(Start: 52 @22011 has 129 MA's), (110, 21696), (161, 21459), (192, 21261),

Gene: Lebo14_91 Start: 56133, Stop: 56930, Start Num: 36

Candidate Starts for Lebo14_91:

(Start: 36 @56133 has 8 MA's), (Start: 65 @56223 has 71 MA's), (85, 56328), (102, 56442), (117, 56514), (141, 56649), (144, 56670), (152, 56727), (177, 56838),

Gene: Liebe_23 Start: 19676, Stop: 20467, Start Num: 58

Candidate Starts for Liebe_23:

(Start: 58 @19676 has 3 MA's), (60, 19685), (Start: 75 @19748 has 3 MA's), (92, 19850), (102, 19925), (166, 20258), (176, 20297),

Gene: LilHazelnut_44 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for LilHazelnut_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: LilPharaoh_76 Start: 54497, Stop: 55198, Start Num: 66

Candidate Starts for LilPharaoh_76:

(Start: 66 @54497 has 10 MA's), (82, 54584), (93, 54647), (102, 54713), (103, 54722), (145, 54947), (152, 54998), (156, 55010), (160, 55034), (173, 55091), (183, 55166),

Gene: Lilmac1015_80 Start: 49859, Stop: 49071, Start Num: 65

Candidate Starts for Lilmac1015_80:

(29, 49967), (51, 49910), (Start: 53 @49907 has 4 MA's), (Start: 65 @49859 has 71 MA's), (93, 49700), (112, 49577), (124, 49526), (175, 49295), (200, 49157),

Gene: LordBart_41 Start: 25632, Stop: 26492, Start Num: 49

Candidate Starts for LordBart_41:

(Start: 49 @25632 has 7 MA's), (114, 25971), (133, 26058), (143, 26106), (175, 26259), (177, 26265), (193, 26379), (196, 26397),

Gene: Lovelyunicorn_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Lovelyunicorn_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Lucky3_29 Start: 21794, Stop: 20895, Start Num: 40

Candidate Starts for Lucky3_29:

(Start: 35 @21812 has 8 MA's), (Start: 40 @21794 has 30 MA's), (114, 21449), (119, 21428), (133, 21368), (143, 21320), (159, 21236), (160, 21233), (180, 21134),

Gene: Ludgate_31 Start: 21792, Stop: 20950, Start Num: 52

Candidate Starts for Ludgate_31:

(Start: 52 @21792 has 129 MA's), (80, 21678), (85, 21648), (115, 21459), (133, 21351), (143, 21300), (147, 21276), (159, 21222), (182, 21099),

Gene: Luke_44 Start: 34081, Stop: 33380, Start Num: 61

Candidate Starts for Luke_44:

(Start: 53 @34111 has 4 MA's), (Start: 61 @34081 has 24 MA's), (79, 33997), (133, 33679), (157, 33550), (160, 33529), (161, 33526),

Gene: Lukepolites_73 Start: 47056, Stop: 46286, Start Num: 68

Candidate Starts for Lukepolites_73:

(39, 47143), (Start: 54 @47107 has 1 MA's), (68, 47056), (77, 47002), (102, 46831), (130, 46702), (133, 46678), (140, 46654), (154, 46570), (199, 46372), (201, 46360), (203, 46324),

Gene: Luna18_32 Start: 21467, Stop: 20571, Start Num: 40

Candidate Starts for Luna18_32:

(33, 21488), (Start: 35 @21485 has 8 MA's), (Start: 40 @21467 has 30 MA's), (111, 21131), (117, 21110), (146, 20960), (168, 20861),

Gene: Luna22_42 Start: 34110, Stop: 33463, Start Num: 61

Candidate Starts for Luna22_42:

(Start: 53 @34140 has 4 MA's), (Start: 61 @34110 has 24 MA's), (79, 34026), (133, 33708), (157, 33579), (160, 33558), (161, 33555),

Gene: MCubed_30 Start: 21857, Stop: 21006, Start Num: 40

Candidate Starts for MCubed_30:

(Start: 35 @21875 has 8 MA's), (Start: 40 @21857 has 30 MA's), (101, 21572), (111, 21518), (133, 21419), (143, 21371), (146, 21350), (159, 21287), (161, 21281), (171, 21233), (179, 21191), (202, 21053),

Gene: MacnCheese_96 Start: 59356, Stop: 60054, Start Num: 65

Candidate Starts for MacnCheese_96:

(Start: 65 @59356 has 71 MA's), (74, 59383), (79, 59425), (93, 59506), (133, 59743), (137, 59758), (145, 59806), (156, 59869), (160, 59893), (180, 59998), (184, 60031),

Gene: MaeLinda_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for MaeLinda_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105), (201, 21024),

Gene: Malthus_93 Start: 55794, Stop: 56501, Start Num: 65

Candidate Starts for Malthus_93:

(1, 55239), (7, 55506), (8, 55530), (12, 55563), (14, 55581), (19, 55638), (Start: 36 @55704 has 8 MA's), (Start: 65 @55794 has 71 MA's), (85, 55899), (117, 56085), (141, 56220), (144, 56241), (152, 56298), (177, 56409),

Gene: ManRay_30 Start: 21611, Stop: 20769, Start Num: 52

Candidate Starts for ManRay_30:

(Start: 52 @21611 has 129 MA's), (80, 21497), (85, 21467), (115, 21278), (133, 21170), (143, 21119), (147, 21095), (159, 21041), (161, 21035), (182, 20918),

Gene: Marcoliusprime_41 Start: 32195, Stop: 32893, Start Num: 67

Candidate Starts for Marcoliusprime_41:

(38, 32114), (Start: 52 @32147 has 129 MA's), (55, 32156), (Start: 67 @32195 has 10 MA's), (82, 32279), (86, 32300), (88, 32321), (93, 32342), (102, 32408), (103, 32417), (133, 32579), (144, 32636), (145, 32642), (155, 32702), (160, 32729), (164, 32741), (173, 32786), (175, 32792), (180, 32834),

Gene: Martin_32 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Martin_32:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Maruru_99 Start: 60098, Stop: 59316, Start Num: 65

Candidate Starts for Maruru_99:

(Start: 40 @60170 has 30 MA's), (42, 60167), (Start: 46 @60161 has 1 MA's), (Start: 65 @60098 has 71 MA's), (80, 60023), (81, 60020), (112, 59813), (124, 59762), (165, 59576), (175, 59531), (177, 59525), (197, 59405),

Gene: Maureen_23 Start: 19676, Stop: 20467, Start Num: 58

Candidate Starts for Maureen_23:

(Start: 58 @19676 has 3 MA's), (60, 19685), (Start: 75 @19748 has 3 MA's), (92, 19850), (102, 19925), (166, 20258), (176, 20297),

Gene: McGalleon_33 Start: 23130, Stop: 22183, Start Num: 32

Candidate Starts for McGalleon_33:

(Start: 32 @23130 has 2 MA's), (48, 23094), (114, 22749), (128, 22686), (159, 22524), (161, 22518), (175, 22458), (180, 22422), (192, 22320),

Gene: Mdavu_76 Start: 54773, Stop: 55474, Start Num: 66

Candidate Starts for Mdavu_76:

(Start: 66 @54773 has 10 MA's), (82, 54860), (93, 54923), (102, 54989), (103, 54998), (145, 55223), (152, 55274), (156, 55286), (160, 55310), (173, 55367), (183, 55442),

Gene: Megsy_40 Start: 31313, Stop: 31999, Start Num: 65

Candidate Starts for Megsy_40:

(Start: 65 @31313 has 71 MA's), (74, 31343), (93, 31466), (120, 31628), (133, 31703), (137, 31718), (144, 31760), (145, 31766), (155, 31826), (164, 31865), (173, 31910), (180, 31958),

Gene: Merida02_32 Start: 21795, Stop: 20953, Start Num: 52

Candidate Starts for Merida02_32:

(Start: 52 @21795 has 129 MA's), (80, 21681), (85, 21651), (115, 21462), (133, 21354), (143, 21303), (147, 21279), (159, 21225), (182, 21102),

Gene: Milly_41 Start: 32168, Stop: 32866, Start Num: 67

Candidate Starts for Milly_41:

(38, 32087), (Start: 52 @32120 has 129 MA's), (55, 32129), (Start: 67 @32168 has 10 MA's), (82, 32252), (86, 32273), (88, 32294), (93, 32315), (102, 32381), (103, 32390), (133, 32552), (144, 32609), (145, 32615), (155, 32675), (160, 32702), (164, 32714), (173, 32759), (175, 32765), (180, 32807),

Gene: MillyPhilly_31 Start: 21795, Stop: 20953, Start Num: 52

Candidate Starts for MillyPhilly_31:

(Start: 52 @21795 has 129 MA's), (80, 21681), (85, 21651), (115, 21462), (133, 21354), (143, 21303), (147, 21279), (159, 21225), (161, 21219), (182, 21102),

Gene: MissDaisy_86 Start: 52298, Stop: 53095, Start Num: 36

Candidate Starts for MissDaisy_86:

(5, 52091), (7, 52100), (8, 52124), (11, 52130), (12, 52157), (14, 52175), (19, 52232), (Start: 36 @52298 has 8 MA's), (Start: 65 @52388 has 71 MA's), (85, 52493), (102, 52607), (117, 52679), (141, 52814), (152, 52892), (153, 52895), (177, 53003),

Gene: Mitti_92 Start: 55889, Stop: 56596, Start Num: 65

Candidate Starts for Mitti_92:

(2, 55406), (3, 55469), (4, 55547), (23, 55745), (Start: 65 @55889 has 71 MA's), (85, 55994), (101, 56105), (102, 56108), (117, 56180), (141, 56315), (144, 56336), (152, 56393), (177, 56504),

Gene: MonChoix_29 Start: 21781, Stop: 20879, Start Num: 52

Candidate Starts for MonChoix_29:

(Start: 52 @21781 has 129 MA's), (115, 21448), (133, 21340), (143, 21289), (147, 21265), (159, 21211), (165, 21190), (192, 21013),

Gene: MrWorldwide_31 Start: 21799, Stop: 20957, Start Num: 52

Candidate Starts for MrWorldwide_31:

(Start: 52 @21799 has 129 MA's), (80, 21685), (85, 21655), (115, 21466), (133, 21358), (143, 21307), (147, 21283), (159, 21229), (161, 21223), (182, 21106),

Gene: Mufasa_42 Start: 32093, Stop: 32791, Start Num: 67

Candidate Starts for Mufasa_42:

(Start: 52 @32045 has 129 MA's), (55, 32054), (Start: 67 @32093 has 10 MA's), (82, 32177), (86, 32198), (88, 32219), (93, 32240), (102, 32306), (133, 32477), (144, 32534), (145, 32540), (155, 32600), (160, 32627), (164, 32639), (173, 32684), (175, 32690), (180, 32732),

Gene: Nagem_31 Start: 21792, Stop: 20950, Start Num: 52

Candidate Starts for Nagem_31:

(Start: 52 @21792 has 129 MA's), (80, 21678), (85, 21648), (115, 21459), (133, 21351), (143, 21300), (147, 21276), (159, 21222), (182, 21099),

Gene: Nandito_79 Start: 50159, Stop: 49368, Start Num: 65

Candidate Starts for Nandito_79:

(Start: 65 @50159 has 71 MA's), (95, 49976), (124, 49820), (175, 49589), (199, 49457),

Gene: Nattles_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Nattles_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Nebulous_29 Start: 22504, Stop: 21605, Start Num: 54

Candidate Starts for Nebulous_29:

(17, 22642), (Start: 21 @22615 has 1 MA's), (26, 22579), (Start: 32 @22561 has 2 MA's), (Start: 35 @22555 has 8 MA's), (Start: 54 @22504 has 1 MA's), (Start: 57 @22498 has 1 MA's), (111, 22186), (133, 22084), (159, 21952), (161, 21946), (168, 21916),

Gene: Nergal_78 Start: 52735, Stop: 53433, Start Num: 66

Candidate Starts for Nergal_78:

(Start: 66 @52735 has 10 MA's), (93, 52885), (108, 52987), (133, 53122), (145, 53185), (156, 53248), (160, 53272), (164, 53284), (173, 53329), (180, 53377),

Gene: NickSell_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for NickSell_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Nikao_78 Start: 57382, Stop: 58083, Start Num: 66

Candidate Starts for Nikao_78:

(Start: 66 @57382 has 10 MA's), (82, 57469), (93, 57532), (102, 57598), (103, 57607), (145, 57832), (152, 57883), (156, 57895), (160, 57919), (173, 57976), (183, 58051),

Gene: NovoPizza_46 Start: 36084, Stop: 35350, Start Num: 53

Candidate Starts for NovoPizza_46:

(Start: 53 @36084 has 4 MA's), (59, 36063), (Start: 61 @36054 has 24 MA's), (Start: 75 @35994 has 3 MA's), (107, 35790), (108, 35781), (133, 35646), (134, 35643), (148, 35568), (160, 35499), (161, 35496), (177, 35424), (181, 35382),

Gene: Nutello_75 Start: 54769, Stop: 55470, Start Num: 66

Candidate Starts for Nutello_75:

(Start: 66 @54769 has 10 MA's), (82, 54856), (93, 54919), (102, 54985), (103, 54994), (145, 55219), (152, 55270), (156, 55282), (160, 55306), (173, 55363), (183, 55438),

Gene: OBUpride_44 Start: 34120, Stop: 33419, Start Num: 61

Candidate Starts for OBUpride_44:

(Start: 53 @34150 has 4 MA's), (Start: 61 @34120 has 24 MA's), (79, 34036), (133, 33718), (157, 33589), (160, 33568), (161, 33565),

Gene: Oats_30 Start: 21611, Stop: 20769, Start Num: 52

Candidate Starts for Oats_30:

(Start: 52 @21611 has 129 MA's), (80, 21497), (85, 21467), (115, 21278), (133, 21170), (143, 21119), (147, 21095), (159, 21041), (161, 21035), (182, 20918),

Gene: OldNelly_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for OldNelly_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (182, 21105),

Gene: OmniCritical_92 Start: 55877, Stop: 56674, Start Num: 36

Candidate Starts for OmniCritical_92:

(Start: 36 @55877 has 8 MA's), (Start: 65 @55967 has 71 MA's), (85, 56072), (102, 56186), (117, 56258), (141, 56393), (144, 56414), (152, 56471), (177, 56582),

Gene: Orpington_31 Start: 21847, Stop: 20996, Start Num: 40

Candidate Starts for Orpington_31:

(Start: 35 @21865 has 8 MA's), (Start: 40 @21847 has 30 MA's), (101, 21562), (111, 21508), (133, 21409), (143, 21361), (144, 21358), (146, 21340), (159, 21277), (161, 21271), (171, 21223), (179, 21181), (194, 21106), (202, 21043),

Gene: Ottawa_27 Start: 10163, Stop: 10948, Start Num: 65

Candidate Starts for Ottawa_27:

(Start: 65 @10163 has 71 MA's), (80, 10238), (112, 10445), (124, 10496), (129, 10517), (175, 10727),

Gene: Oxtobber96_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Oxtobber96_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: PSirce_30 Start: 21868, Stop: 20999, Start Num: 35

Candidate Starts for PSirce_30:

(Start: 35 @21868 has 8 MA's), (Start: 40 @21850 has 30 MA's), (101, 21565), (111, 21511), (133, 21412), (143, 21364), (144, 21361), (146, 21343), (159, 21280), (161, 21274), (171, 21226), (179, 21184), (194, 21109), (202, 21046),

Gene: Padfoot_39 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for Padfoot_39:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: Papafritta_30 Start: 21607, Stop: 20765, Start Num: 52

Candidate Starts for Papafritta_30:

(Start: 52 @21607 has 129 MA's), (80, 21493), (85, 21463), (115, 21274), (133, 21166), (143, 21115), (147, 21091), (159, 21037), (182, 20914),

Gene: ParleG_31 Start: 21799, Stop: 20957, Start Num: 52

Candidate Starts for ParleG_31:

(Start: 52 @21799 has 129 MA's), (80, 21685), (85, 21655), (115, 21466), (133, 21358), (143, 21307), (147, 21283), (159, 21229), (161, 21223), (182, 21106),

Gene: Patt_85 Start: 52445, Stop: 53242, Start Num: 36

Candidate Starts for Patt_85:

(7, 52247), (8, 52271), (12, 52304), (14, 52322), (19, 52379), (Start: 36 @52445 has 8 MA's), (Start: 65 @52535 has 71 MA's), (85, 52640), (102, 52754), (117, 52826), (141, 52961), (144, 52982), (152, 53039), (153, 53042), (177, 53150),

Gene: Peep_31 Start: 21784, Stop: 20942, Start Num: 52

Candidate Starts for Peep_31:

(Start: 52 @21784 has 129 MA's), (80, 21670), (85, 21640), (115, 21451), (133, 21343), (143, 21292), (147, 21268), (159, 21214), (182, 21091),

Gene: Penta_29 Start: 20407, Stop: 19550, Start Num: 40

Candidate Starts for Penta_29:

(Start: 35 @20425 has 8 MA's), (Start: 40 @20407 has 30 MA's), (85, 20245), (95, 20173), (106, 20113), (119, 20071), (123, 20056), (133, 20011), (143, 19960), (159, 19876), (161, 19870), (167, 19843), (175, 19810), (179, 19780), (180, 19774),

Gene: Peppino_30 Start: 21865, Stop: 20978, Start Num: 52

Candidate Starts for Peppino_30:

(Start: 52 @21865 has 129 MA's), (85, 21721), (121, 21508), (133, 21448), (138, 21427), (143, 21394), (159, 21316), (165, 21295),

Gene: Phanita_30 Start: 21830, Stop: 20979, Start Num: 40

Candidate Starts for Phanita_30:

(Start: 35 @21848 has 8 MA's), (Start: 40 @21830 has 30 MA's), (101, 21545), (111, 21491), (133, 21392), (143, 21344), (146, 21323), (159, 21260), (161, 21254), (171, 21206), (179, 21164), (202, 21026),

Gene: Pharb_93 Start: 58357, Stop: 59055, Start Num: 65

Candidate Starts for Pharb_93:

(Start: 65 @58357 has 71 MA's), (74, 58384), (91, 58498), (94, 58513), (133, 58744), (145, 58807), (155, 58867), (160, 58894), (164, 58906), (175, 58957),

Gene: Pherbot_29 Start: 21682, Stop: 20789, Start Num: 40

Candidate Starts for Pherbot_29:

(Start: 28 @21718 has 1 MA's), (Start: 35 @21700 has 8 MA's), (Start: 40 @21682 has 30 MA's), (106, 21376), (119, 21316), (132, 21265), (135, 21247), (159, 21130), (161, 21124), (171, 21076), (180, 21028),

Gene: Pherferi_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Pherferi_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Phiderman_31 Start: 21795, Stop: 20953, Start Num: 52

Candidate Starts for Phiderman_31:

(Start: 52 @21795 has 129 MA's), (80, 21681), (85, 21651), (115, 21462), (133, 21354), (143, 21303), (147, 21279), (159, 21225), (161, 21219), (182, 21102),

Gene: PhillyPhantom_30 Start: 21846, Stop: 20998, Start Num: 52

Candidate Starts for PhillyPhantom_30:

(Start: 52 @21846 has 129 MA's), (115, 21513), (133, 21405), (143, 21354), (147, 21330), (159, 21270), (161, 21264), (182, 21147), (202, 21045),

Gene: Phireproof_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Phireproof_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: PhredFlintston_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for PhredFlintston_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Phriends_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Phriends_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (182, 21105),

Gene: Piatt_39 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for Piatt_39:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: Pisa1_38 Start: 31390, Stop: 32079, Start Num: 65

Candidate Starts for Pisa1_38:

(Start: 65 @31390 has 71 MA's), (74, 31420), (88, 31522), (93, 31543), (105, 31627), (133, 31780), (137, 31795), (145, 31843), (155, 31903), (160, 31930), (164, 31942), (173, 31987), (175, 31993), (177, 32005), (180, 32035),

Gene: Pixie_96 Start: 58971, Stop: 59669, Start Num: 65

Candidate Starts for Pixie_96:

(Start: 65 @58971 has 71 MA's), (74, 58998), (91, 59112), (94, 59127), (102, 59187), (133, 59358), (145, 59421), (155, 59481), (160, 59508), (164, 59520), (172, 59562), (175, 59571), (184, 59646),

Gene: Pocket_30 Start: 21596, Stop: 20754, Start Num: 52

Candidate Starts for Pocket_30:

(Start: 52 @21596 has 129 MA's), (80, 21482), (85, 21452), (115, 21263), (133, 21155), (143, 21104), (147, 21080), (159, 21026), (161, 21020), (182, 20903),

Gene: PorkBelly_50 Start: 38512, Stop: 37673, Start Num: 52

Candidate Starts for PorkBelly_50:

(Start: 52 @38512 has 129 MA's), (72, 38440), (89, 38320), (97, 38263), (119, 38149), (125, 38116), (131, 38095), (158, 37954), (178, 37861), (182, 37819), (187, 37810), (197, 37771), (198, 37768),

Gene: PrincePhergus_29 Start: 21721, Stop: 20792, Start Num: 28

Candidate Starts for PrincePhergus_29:

(Start: 28 @21721 has 1 MA's), (Start: 35 @21703 has 8 MA's), (Start: 40 @21685 has 30 MA's), (119, 21319), (132, 21268), (135, 21250), (159, 21133), (161, 21127), (171, 21079),

Gene: PuppyEggo_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for PuppyEggo_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Qhanda_92 Start: 55247, Stop: 55954, Start Num: 65

Candidate Starts for Qhanda_92:

(2, 54764), (3, 54827), (4, 54905), (23, 55103), (Start: 65 @55247 has 71 MA's), (85, 55352), (101, 55463), (102, 55466), (117, 55538), (141, 55673), (144, 55694), (152, 55751), (177, 55862),

Gene: QuincyRose_38 Start: 31369, Stop: 32058, Start Num: 65

Candidate Starts for QuincyRose_38:

(Start: 65 @31369 has 71 MA's), (70, 31384), (74, 31399), (83, 31468), (88, 31501), (93, 31522), (133, 31759), (145, 31822), (155, 31882), (164, 31921), (173, 31966), (175, 31972), (180, 32014),

Gene: Raccoon_30 Start: 21834, Stop: 20986, Start Num: 52

Candidate Starts for Raccoon_30:

(Start: 52 @21834 has 129 MA's), (115, 21501), (133, 21393), (143, 21342), (147, 21318), (159, 21258), (161, 21252), (182, 21135), (202, 21033),

Gene: Rapheph_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Rapheph_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Raptor_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Raptor_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: Redfield_30 Start: 21872, Stop: 20985, Start Num: 52

Candidate Starts for Redfield_30:

(Start: 52 @21872 has 129 MA's), (85, 21728), (121, 21515), (133, 21455), (138, 21434), (143, 21401), (159, 21323), (165, 21302),

Gene: Renzie_31 Start: 21784, Stop: 20942, Start Num: 52

Candidate Starts for Renzie_31:

(Start: 52 @21784 has 129 MA's), (80, 21670), (85, 21640), (115, 21451), (133, 21343), (143, 21292), (147, 21268), (159, 21214), (182, 21091),

Gene: Reptar3000_86 Start: 52435, Stop: 53232, Start Num: 36

Candidate Starts for Reptar3000_86:

(7, 52237), (8, 52261), (12, 52294), (14, 52312), (19, 52369), (Start: 36 @52435 has 8 MA's), (Start: 65 @52525 has 71 MA's), (85, 52630), (102, 52744), (117, 52816), (141, 52951), (144, 52972), (152, 53029), (153, 53032), (177, 53140),

Gene: RikSengupta_41 Start: 25754, Stop: 26620, Start Num: 49

Candidate Starts for RikSengupta_41:

(9, 25553), (20, 25661), (30, 25712), (Start: 49 @25754 has 7 MA's), (63, 25805), (112, 26093), (114, 26099), (133, 26186), (143, 26234), (162, 26330), (175, 26387), (177, 26393), (193, 26507), (195, 26519), (196, 26525),

Gene: Riyhil_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Riyhil_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (182, 21105),

Gene: Robinson_31 Start: 21790, Stop: 20948, Start Num: 52

Candidate Starts for Robinson_31:

(Start: 52 @21790 has 129 MA's), (80, 21676), (85, 21646), (115, 21457), (133, 21349), (143, 21298), (147, 21274), (159, 21220), (161, 21214), (182, 21097),

Gene: Rog141_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for Rog141_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: RosieMae_30 Start: 21608, Stop: 20766, Start Num: 52

Candidate Starts for RosieMae_30:

(Start: 52 @21608 has 129 MA's), (80, 21494), (85, 21464), (115, 21275), (133, 21167), (143, 21116), (147, 21092), (159, 21038), (182, 20915),

Gene: Ruthiejr_94 Start: 55861, Stop: 56559, Start Num: 65

Candidate Starts for Ruthiejr_94:

(Start: 65 @55861 has 71 MA's), (85, 55966), (117, 56152), (141, 56278), (144, 56299), (152, 56356), (177, 56467),

Gene: SJay_31 Start: 21793, Stop: 20951, Start Num: 52

Candidate Starts for SJay_31:

(Start: 52 @21793 has 129 MA's), (80, 21679), (85, 21649), (115, 21460), (133, 21352), (143, 21301), (147, 21277), (159, 21223), (182, 21100),

Gene: SamScheppers_91 Start: 56255, Stop: 57052, Start Num: 36

Candidate Starts for SamScheppers_91:

(Start: 36 @56255 has 8 MA's), (Start: 65 @56345 has 71 MA's), (85, 56450), (101, 56561), (102, 56564), (117, 56636), (141, 56771), (144, 56792), (152, 56849), (177, 56960),

Gene: Sansa_29 Start: 21875, Stop: 21006, Start Num: 35

Candidate Starts for Sansa_29:

(Start: 35 @21875 has 8 MA's), (Start: 40 @21857 has 30 MA's), (101, 21572), (111, 21518), (133, 21419), (143, 21371), (144, 21368), (146, 21350), (159, 21287), (161, 21281), (168, 21251), (171, 21233), (179, 21191), (194, 21116), (202, 21053),

Gene: Saratos_30 Start: 21832, Stop: 20981, Start Num: 40

Candidate Starts for Saratos_30:

(Start: 35 @21850 has 8 MA's), (Start: 40 @21832 has 30 MA's), (101, 21547), (111, 21493), (133, 21394), (143, 21346), (144, 21343), (146, 21325), (159, 21262), (161, 21256), (171, 21208), (179, 21166), (194, 21091), (202, 21028),

Gene: Schimmels22_31 Start: 21105, Stop: 20230, Start Num: 35

Candidate Starts for Schimmels22_31:

(Start: 35 @21105 has 8 MA's), (Start: 40 @21087 has 30 MA's), (85, 20925), (88, 20901), (95, 20853), (106, 20793), (119, 20751), (123, 20736), (133, 20691), (143, 20640), (153, 20583), (159, 20556), (161, 20550), (167, 20523), (179, 20460),

Gene: Schnapsidee_30 Start: 21866, Stop: 20979, Start Num: 52

Candidate Starts for Schnapsidee_30:

(Start: 52 @21866 has 129 MA's), (85, 21722), (121, 21509), (133, 21449), (138, 21428), (143, 21395), (159, 21317), (165, 21296),

Gene: Scissor2024_31 Start: 20723, Stop: 19866, Start Num: 40

Candidate Starts for Scissor2024_31:

(Start: 35 @20741 has 8 MA's), (Start: 40 @20723 has 30 MA's), (85, 20561), (88, 20537), (95, 20489), (106, 20429), (119, 20387), (123, 20372), (133, 20327), (143, 20276), (159, 20192), (161, 20186), (167, 20159), (179, 20096),

Gene: Sedgewig_30 Start: 21590, Stop: 20748, Start Num: 52

Candidate Starts for Sedgewig_30:

(Start: 52 @21590 has 129 MA's), (80, 21476), (85, 21446), (115, 21257), (133, 21149), (143, 21098), (147, 21074), (159, 21020), (182, 20897),

Gene: SgtBeansprout_76 Start: 54769, Stop: 55470, Start Num: 66

Candidate Starts for SgtBeansprout_76:

(Start: 66 @54769 has 10 MA's), (82, 54856), (93, 54919), (102, 54985), (103, 54994), (145, 55219), (152, 55270), (156, 55282), (160, 55306), (173, 55363), (183, 55438),

Gene: Shadow1_42 Start: 31293, Stop: 31994, Start Num: 65

Candidate Starts for Shadow1_42:

(Start: 65 @31293 has 71 MA's), (74, 31323), (88, 31425), (93, 31446), (120, 31608), (122, 31620), (133, 31683), (145, 31746), (155, 31806), (160, 31833), (164, 31845), (173, 31890), (180, 31938),

Gene: ShaiHulud_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for ShaiHulud_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Shamu_30 Start: 21847, Stop: 20996, Start Num: 40

Candidate Starts for Shamu_30:

(Start: 35 @21865 has 8 MA's), (Start: 40 @21847 has 30 MA's), (101, 21562), (111, 21508), (133, 21409), (143, 21361), (144, 21358), (146, 21340), (159, 21277), (161, 21271), (171, 21223), (179, 21181), (194, 21106), (202, 21043),

Gene: ShedlockHolmes_97 Start: 58904, Stop: 59602, Start Num: 65

Candidate Starts for ShedlockHolmes_97:

(Start: 65 @58904 has 71 MA's), (74, 58931), (91, 59045), (94, 59060), (102, 59120), (133, 59291), (145, 59354), (155, 59414), (160, 59441), (164, 59453), (172, 59495), (175, 59504), (184, 59579),

Gene: Shee_31 Start: 21795, Stop: 20953, Start Num: 52

Candidate Starts for Shee_31:

(Start: 52 @21795 has 129 MA's), (80, 21681), (85, 21651), (115, 21462), (133, 21354), (143, 21303), (147, 21279), (159, 21225), (161, 21219), (182, 21102),

Gene: ShiaSurprise_40 Start: 31380, Stop: 32069, Start Num: 65

Candidate Starts for ShiaSurprise_40:

(Start: 45 @31311 has 2 MA's), (Start: 46 @31314 has 1 MA's), (56, 31344), (Start: 65 @31380 has 71 MA's), (70, 31395), (74, 31410), (83, 31479), (88, 31512), (93, 31533), (133, 31770), (145, 31833), (155, 31893), (164, 31932), (173, 31977), (175, 31983), (180, 32025), (181, 32037),

Gene: Sinatra_29 Start: 21682, Stop: 20789, Start Num: 40

Candidate Starts for Sinatra_29:

(Start: 35 @21700 has 8 MA's), (Start: 40 @21682 has 30 MA's), (85, 21520), (119, 21316), (132, 21265), (135, 21247), (146, 21187), (159, 21130), (161, 21124), (171, 21076),

Gene: SirVictor_29 Start: 21782, Stop: 20883, Start Num: 40

Candidate Starts for SirVictor_29:

(Start: 35 @21800 has 8 MA's), (Start: 40 @21782 has 30 MA's), (114, 21437), (119, 21416), (133, 21356), (143, 21308), (159, 21224), (160, 21221), (180, 21122),

Gene: Slarp_90 Start: 55250, Stop: 55957, Start Num: 65

Candidate Starts for Slarp_90:

(2, 54767), (3, 54830), (4, 54908), (23, 55106), (Start: 65 @55250 has 71 MA's), (85, 55355), (101, 55466), (102, 55469), (117, 55541), (141, 55676), (144, 55697), (152, 55754), (177, 55865),

Gene: SoilGremlin_31 Start: 21795, Stop: 20953, Start Num: 52

Candidate Starts for SoilGremlin_31:

(Start: 52 @21795 has 129 MA's), (80, 21681), (85, 21651), (115, 21462), (133, 21354), (143, 21303), (147, 21279), (159, 21225), (182, 21102),

Gene: SolidSnake_32 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for SolidSnake_32:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: SonOfLevi_30 Start: 21593, Stop: 20751, Start Num: 52

Candidate Starts for SonOfLevi_30:

(Start: 52 @21593 has 129 MA's), (80, 21479), (85, 21449), (115, 21260), (133, 21152), (143, 21101), (147, 21077), (159, 21023), (161, 21017), (182, 20900),

Gene: Sonali_99 Start: 61044, Stop: 60199, Start Num: 46

Candidate Starts for Sonali_99:

(Start: 40 @61053 has 30 MA's), (Start: 46 @61044 has 1 MA's), (Start: 65 @60981 has 71 MA's), (80, 60906), (81, 60903), (112, 60696), (124, 60645), (165, 60459), (175, 60414), (197, 60288),

Gene: Soror1_30 Start: 21878, Stop: 20991, Start Num: 52

Candidate Starts for Soror1_30:

(Start: 52 @21878 has 129 MA's), (121, 21521), (133, 21461), (138, 21440), (143, 21407), (159, 21329), (165, 21308),

Gene: Sparcetus_41 Start: 25633, Stop: 26499, Start Num: 49

Candidate Starts for Sparcetus_41:

(9, 25432), (20, 25540), (30, 25591), (Start: 49 @25633 has 7 MA's), (63, 25684), (114, 25978), (133, 26065), (143, 26113), (175, 26266), (177, 26272), (193, 26386), (196, 26404),

Gene: Stanktossa_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for Stanktossa_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: StingRay_30 Start: 21608, Stop: 20766, Start Num: 52

Candidate Starts for StingRay_30:

(Start: 52 @21608 has 129 MA's), (80, 21494), (85, 21464), (115, 21275), (133, 21167), (143, 21116), (147, 21092), (159, 21038), (182, 20915),

Gene: Stinson_40 Start: 31579, Stop: 32265, Start Num: 65

Candidate Starts for Stinson_40:

(Start: 65 @31579 has 71 MA's), (74, 31609), (93, 31732), (120, 31894), (133, 31969), (137, 31984), (144, 32026), (145, 32032), (155, 32092), (164, 32131), (173, 32176), (180, 32224),

Gene: StirfryIV_30 Start: 21598, Stop: 20756, Start Num: 52

Candidate Starts for StirfryIV_30:

(Start: 52 @21598 has 129 MA's), (80, 21484), (85, 21454), (115, 21265), (133, 21157), (143, 21106), (147, 21082), (159, 21028), (161, 21022), (182, 20905),

Gene: Stormbreaker8_30 Start: 21869, Stop: 20982, Start Num: 52

Candidate Starts for Stormbreaker8_30:

(Start: 52 @21869 has 129 MA's), (121, 21512), (133, 21452), (138, 21431), (143, 21398), (159, 21320), (165, 21299),

Gene: Strathdee_31 Start: 21797, Stop: 20955, Start Num: 52

Candidate Starts for Strathdee_31:

(Start: 52 @21797 has 129 MA's), (80, 21683), (85, 21653), (115, 21464), (133, 21356), (143, 21305), (147, 21281), (159, 21227), (161, 21221), (182, 21104),

Gene: Strobilo_41 Start: 32169, Stop: 32867, Start Num: 67

Candidate Starts for Strobilo_41:

(38, 32088), (Start: 52 @32121 has 129 MA's), (55, 32130), (Start: 67 @32169 has 10 MA's), (82, 32253), (86, 32274), (88, 32295), (93, 32316), (102, 32382), (103, 32391), (133, 32553), (144, 32610), (145, 32616), (155, 32676), (160, 32703), (164, 32715), (173, 32760), (175, 32766), (180, 32808),

Gene: Sulley_39 Start: 31313, Stop: 32002, Start Num: 65

Candidate Starts for Sulley_39:

(Start: 65 @31313 has 71 MA's), (70, 31328), (74, 31343), (83, 31412), (88, 31445), (93, 31466), (133, 31703), (145, 31766), (155, 31826), (164, 31865), (173, 31910), (175, 31916), (180, 31958),

Gene: Sunflower1121_42 Start: 31388, Stop: 32089, Start Num: 65

Candidate Starts for Sunflower1121_42:

(Start: 65 @31388 has 71 MA's), (74, 31418), (88, 31520), (93, 31541), (120, 31703), (122, 31715), (133, 31778), (145, 31841), (155, 31901), (160, 31928), (164, 31940), (173, 31985), (180, 32033),

Gene: Sunshine23_100 Start: 60790, Stop: 60005, Start Num: 65

Candidate Starts for Sunshine23_100:

(Start: 40 @60862 has 30 MA's), (Start: 46 @60853 has 1 MA's), (Start: 65 @60790 has 71 MA's), (81, 60712), (87, 60673), (112, 60505), (124, 60454), (165, 60265), (175, 60220), (197, 60094),

Gene: Superfresh_31 Start: 21784, Stop: 20942, Start Num: 52

Candidate Starts for Superfresh_31:

(Start: 52 @21784 has 129 MA's), (80, 21670), (85, 21640), (115, 21451), (133, 21343), (143, 21292), (147, 21268), (159, 21214), (182, 21091),

Gene: Symere_30 Start: 21588, Stop: 20746, Start Num: 52

Candidate Starts for Symere_30:

(Start: 52 @21588 has 129 MA's), (80, 21474), (85, 21444), (115, 21255), (133, 21147), (143, 21096), (147, 21072), (159, 21018), (182, 20895),

Gene: Syra333_43 Start: 31311, Stop: 32012, Start Num: 65

Candidate Starts for Syra333_43:

(Start: 65 @31311 has 71 MA's), (74, 31341), (88, 31443), (93, 31464), (120, 31626), (122, 31638), (133, 31701), (145, 31764), (155, 31824), (160, 31851), (164, 31863), (173, 31908), (180, 31956),

Gene: TBond007_93 Start: 58969, Stop: 59667, Start Num: 65

Candidate Starts for TBond007_93:

(Start: 65 @58969 has 71 MA's), (74, 58996), (91, 59110), (94, 59125), (102, 59185), (133, 59356), (145, 59419), (155, 59479), (160, 59506), (164, 59518), (172, 59560), (175, 59569), (184, 59644),

Gene: TaiwanKao_41 Start: 31310, Stop: 31996, Start Num: 65

Candidate Starts for TaiwanKao_41:

(Start: 65 @31310 has 71 MA's), (74, 31340), (93, 31463), (120, 31625), (133, 31700), (137, 31715), (144, 31757), (145, 31763), (155, 31823), (164, 31862), (173, 31907), (180, 31955),

Gene: Taquito_92 Start: 56224, Stop: 57021, Start Num: 36

Candidate Starts for Taquito_92:

(7, 56026), (8, 56050), (12, 56083), (14, 56101), (19, 56158), (Start: 36 @56224 has 8 MA's), (Start: 65 @56314 has 71 MA's), (85, 56419), (102, 56533), (117, 56605), (141, 56740), (152, 56818), (177, 56929),

Gene: TatarkaPM_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for TatarkaPM_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: Teagan_31 Start: 21792, Stop: 20950, Start Num: 52

Candidate Starts for Teagan_31:

(Start: 52 @21792 has 129 MA's), (80, 21678), (85, 21648), (115, 21459), (133, 21351), (143, 21300), (147, 21276), (159, 21222), (182, 21099),

Gene: TeddyBear_30 Start: 21611, Stop: 20769, Start Num: 52

Candidate Starts for TeddyBear_30:

(Start: 52 @21611 has 129 MA's), (80, 21497), (85, 21467), (115, 21278), (133, 21170), (143, 21119), (147, 21095), (159, 21041), (161, 21035), (182, 20918),

Gene: Teejan_77 Start: 57382, Stop: 58083, Start Num: 66

Candidate Starts for Teejan_77:

(Start: 66 @57382 has 10 MA's), (82, 57469), (93, 57532), (102, 57598), (103, 57607), (145, 57832), (152, 57883), (156, 57895), (160, 57919), (173, 57976), (183, 58051),

Gene: Tenda_30 Start: 21609, Stop: 20767, Start Num: 52

Candidate Starts for Tenda_30:

(Start: 52 @21609 has 129 MA's), (80, 21495), (85, 21465), (115, 21276), (133, 21168), (143, 21117), (147, 21093), (159, 21039), (161, 21033), (182, 20916),

Gene: Theresita_50 Start: 33880, Stop: 33122, Start Num: 57

Candidate Starts for Theresita_50:

(Start: 57 @33880 has 1 MA's), (90, 33712), (119, 33574), (133, 33514), (171, 33319), (175, 33307), (179, 33277), (198, 33208), (201, 33193),

Gene: Thompsone_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Thompsone_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (161, 21220), (182, 21103),

Gene: Thorongil_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Thorongil_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Tigress9_43 Start: 31392, Stop: 32093, Start Num: 65

Candidate Starts for Tigress9_43:

(Start: 65 @31392 has 71 MA's), (74, 31422), (88, 31524), (93, 31545), (120, 31707), (145, 31845), (155, 31905), (160, 31932), (164, 31944), (173, 31989), (180, 32037),

Gene: TinSulphur_31 Start: 21798, Stop: 20956, Start Num: 52

Candidate Starts for TinSulphur_31:

(Start: 52 @21798 has 129 MA's), (80, 21684), (85, 21654), (115, 21465), (133, 21357), (143, 21306), (147, 21282), (159, 21228), (161, 21222), (182, 21105),

Gene: TingHuaYa_39 Start: 29921, Stop: 30610, Start Num: 65

Candidate Starts for TingHuaYa_39:

(Start: 65 @29921 has 71 MA's), (74, 29951), (93, 30074), (120, 30236), (133, 30311), (144, 30368), (145, 30374), (155, 30434), (164, 30473), (173, 30518), (175, 30524), (180, 30566),

Gene: TinyMiny_41 Start: 25652, Stop: 26518, Start Num: 49

Candidate Starts for TinyMiny_41:

(9, 25451), (20, 25559), (30, 25610), (Start: 49 @25652 has 7 MA's), (63, 25703), (114, 25997), (133, 26084), (143, 26132), (175, 26285), (177, 26291), (193, 26405), (196, 26423),

Gene: Tinyman4_31 Start: 20713, Stop: 19856, Start Num: 40

Candidate Starts for Tinyman4_31:

(Start: 35 @20731 has 8 MA's), (Start: 40 @20713 has 30 MA's), (85, 20551), (88, 20527), (95, 20479), (106, 20419), (119, 20377), (123, 20362), (133, 20317), (143, 20266), (159, 20182), (161, 20176), (167, 20149), (179, 20086),

Gene: Tiri_40 Start: 31359, Stop: 32048, Start Num: 65

Candidate Starts for Tiri_40:

(Start: 65 @31359 has 71 MA's), (70, 31374), (74, 31389), (88, 31491), (93, 31512), (133, 31749), (145, 31812), (155, 31872), (164, 31911), (173, 31956), (175, 31962), (180, 32004),

Gene: Torres_78 Start: 57383, Stop: 58084, Start Num: 66

Candidate Starts for Torres_78:

(Start: 66 @57383 has 10 MA's), (82, 57470), (93, 57533), (102, 57599), (103, 57608), (145, 57833), (152, 57884), (156, 57896), (160, 57920), (173, 57977), (183, 58052),

Gene: Trice_75 Start: 54770, Stop: 55471, Start Num: 66

Candidate Starts for Trice_75:

(Start: 66 @54770 has 10 MA's), (82, 54857), (93, 54920), (102, 54986), (103, 54995), (145, 55220), (152, 55271), (156, 55283), (160, 55307), (173, 55364), (183, 55439),

Gene: Typha_101 Start: 63240, Stop: 63974, Start Num: 61

Candidate Starts for Typha_101:

(22, 63108), (25, 63129), (31, 63156), (34, 63162), (37, 63174), (Start: 61 @63240 has 24 MA's), (62, 63249), (Start: 75 @63297 has 3 MA's), (76, 63309), (82, 63345), (93, 63420), (96, 63441), (108, 63528), (123, 63603), (126, 63615), (137, 63678), (142, 63714), (148, 63744), (155, 63783), (156, 63786), (157, 63789), (160, 63810), (163, 63819), (169, 63849),

Gene: Ubuntu_44 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Ubuntu_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Velene_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Velene_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Vispistious_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for Vispistious_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Webster2_44 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Webster2_44:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: WestPM_29 Start: 20570, Stop: 19713, Start Num: 40

Candidate Starts for WestPM_29:

(Start: 35 @20588 has 8 MA's), (Start: 40 @20570 has 30 MA's), (85, 20408), (95, 20336), (106, 20276), (119, 20234), (123, 20219), (133, 20174), (143, 20123), (159, 20039), (161, 20033), (167, 20006), (175, 19973), (179, 19943),

Gene: WildNOut_31 Start: 21796, Stop: 20954, Start Num: 52

Candidate Starts for WildNOut_31:

(Start: 52 @21796 has 129 MA's), (80, 21682), (85, 21652), (115, 21463), (133, 21355), (143, 21304), (147, 21280), (159, 21226), (182, 21103),

Gene: Wintermute_92 Start: 56049, Stop: 56747, Start Num: 65

Candidate Starts for Wintermute_92:

(1, 55494), (7, 55761), (8, 55785), (12, 55818), (14, 55836), (19, 55893), (Start: 36 @55959 has 8 MA's), (Start: 65 @56049 has 71 MA's), (85, 56154), (117, 56340), (141, 56466), (144, 56487), (152, 56544), (177, 56655),

Gene: Winzigespinne_30 Start: 21597, Stop: 20755, Start Num: 52

Candidate Starts for Winzigespinne_30:

(Start: 52 @21597 has 129 MA's), (80, 21483), (85, 21453), (115, 21264), (133, 21156), (143, 21105), (147, 21081), (159, 21027), (161, 21021), (182, 20904),

Gene: Wishmaker_42 Start: 34126, Stop: 33425, Start Num: 61

Candidate Starts for Wishmaker_42:

(Start: 53 @34156 has 4 MA's), (Start: 61 @34126 has 24 MA's), (79, 34042), (133, 33724), (157, 33595), (160, 33574), (161, 33571),

Gene: Xebius_30 Start: 21835, Stop: 20984, Start Num: 40

Candidate Starts for Xebius_30:

(Start: 35 @21853 has 8 MA's), (Start: 40 @21835 has 30 MA's), (101, 21550), (111, 21496), (133, 21397), (143, 21349), (144, 21346), (146, 21328), (159, 21265), (161, 21259), (171, 21211), (179, 21169), (194, 21094), (202, 21031),

Gene: Ximenita_44 Start: 31496, Stop: 32197, Start Num: 65

Candidate Starts for Ximenita_44:

(Start: 65 @31496 has 71 MA's), (74, 31526), (88, 31628), (93, 31649), (120, 31811), (122, 31823), (133, 31886), (145, 31949), (155, 32009), (160, 32036), (164, 32048), (173, 32093), (180, 32141),

Gene: Y10_88 Start: 55993, Stop: 56691, Start Num: 65

Candidate Starts for Y10_88:

(Start: 36 @55903 has 8 MA's), (Start: 65 @55993 has 71 MA's), (85, 56098), (117, 56284), (141, 56410), (144, 56431), (152, 56488), (177, 56599),

Gene: Y2_88 Start: 55993, Stop: 56691, Start Num: 65

Candidate Starts for Y2_88:

(Start: 36 @55903 has 8 MA's), (Start: 65 @55993 has 71 MA's), (85, 56098), (117, 56284), (141, 56410), (144, 56431), (152, 56488), (177, 56599),

Gene: YasnayaPolyana_91 Start: 55973, Stop: 56680, Start Num: 65

Candidate Starts for YasnayaPolyana_91:

(Start: 36 @55883 has 8 MA's), (Start: 65 @55973 has 71 MA's), (85, 56078), (102, 56192), (117, 56264), (141, 56399), (144, 56420), (152, 56477), (177, 56588),

Gene: Yunkel11_42 Start: 31111, Stop: 31800, Start Num: 65

Candidate Starts for Yunkel11_42:

(Start: 65 @31111 has 71 MA's), (70, 31126), (74, 31141), (88, 31243), (93, 31264), (133, 31501), (144, 31558), (145, 31564), (164, 31663), (173, 31708), (180, 31756),

Gene: YuuY_29 Start: 21987, Stop: 21088, Start Num: 40

Candidate Starts for YuuY_29:

(Start: 40 @21987 has 30 MA's), (111, 21648), (119, 21618), (133, 21546), (146, 21477), (160, 21411), (161, 21408), (179, 21318),

Gene: Zada_31 Start: 21777, Stop: 20935, Start Num: 52

Candidate Starts for Zada_31:

(Start: 52 @21777 has 129 MA's), (80, 21663), (85, 21633), (115, 21444), (133, 21336), (143, 21285), (147, 21261), (159, 21207), (182, 21084),

Gene: Zenitsu_30 Start: 21862, Stop: 21011, Start Num: 40

Candidate Starts for Zenitsu_30:

(Start: 35 @21880 has 8 MA's), (Start: 40 @21862 has 30 MA's), (101, 21577), (111, 21523), (133, 21424), (143, 21376), (144, 21373), (146, 21355), (159, 21292), (161, 21286), (171, 21238), (179, 21196), (194, 21121), (202, 21058),

Gene: Zeta1847_49 Start: 35401, Stop: 36153, Start Num: 73

Candidate Starts for Zeta1847_49:

(Start: 73 @35401 has 1 MA's), (Start: 75 @35416 has 3 MA's), (130, 35752),

Gene: ZoeJ_41 Start: 31857, Stop: 32555, Start Num: 67

Candidate Starts for ZoeJ_41:

(Start: 52 @31809 has 129 MA's), (55, 31818), (Start: 67 @31857 has 10 MA's), (82, 31941), (86, 31962), (88, 31983), (93, 32004), (102, 32070), (103, 32079), (116, 32139), (133, 32241), (144, 32298), (155, 32364), (160, 32391), (164, 32403), (173, 32448), (175, 32454), (180, 32496),