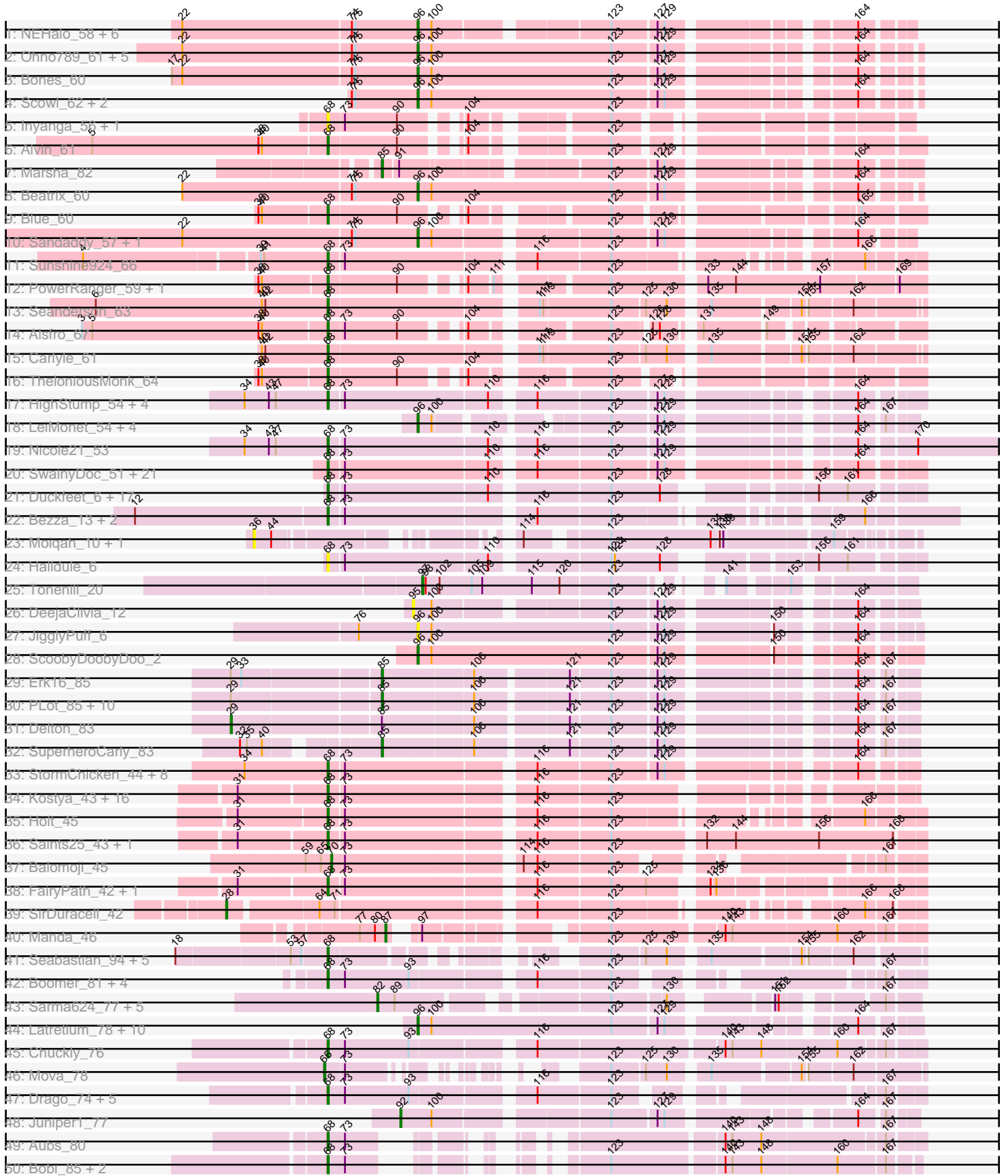
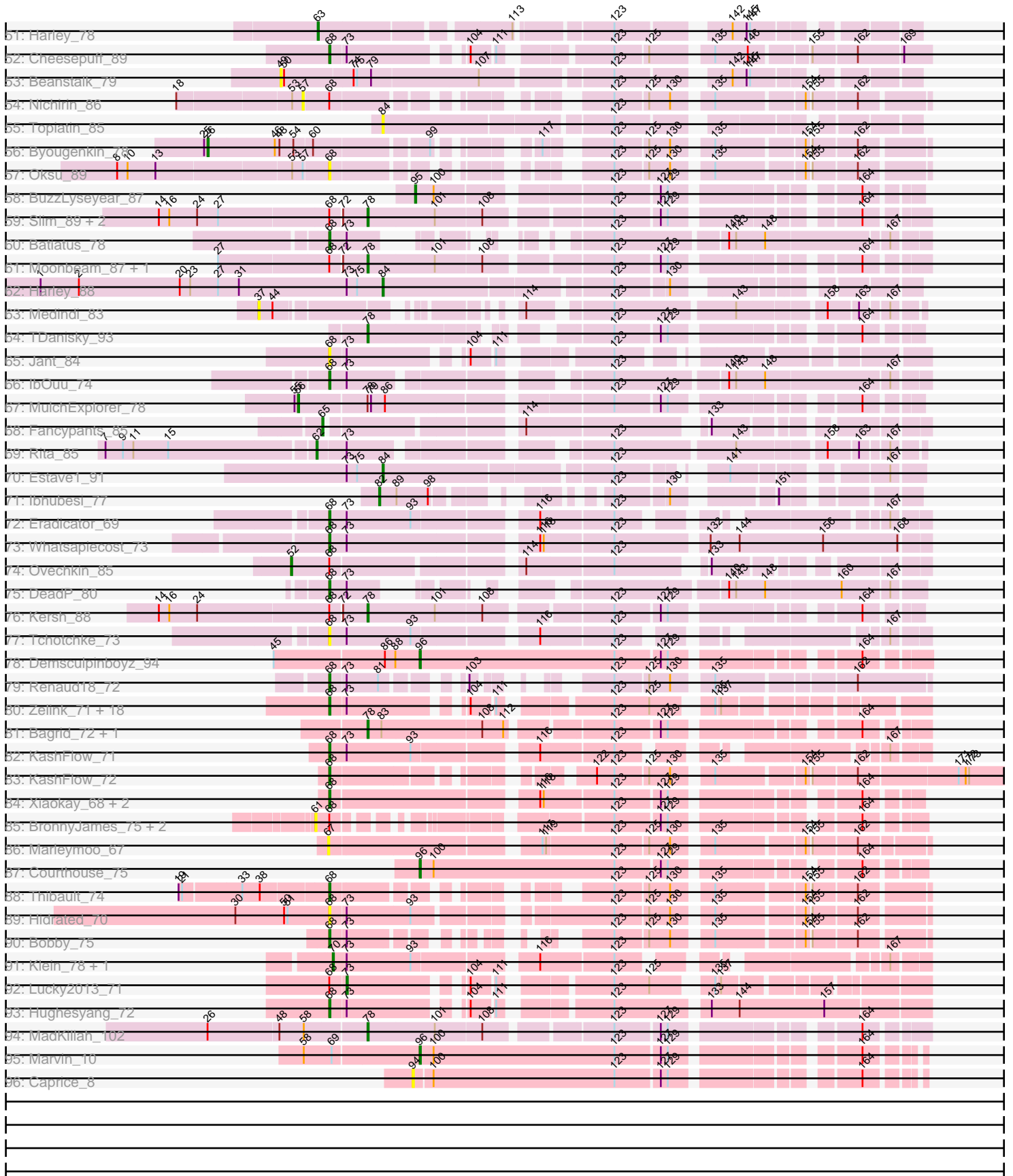


Pham 311187



Pham 311187



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 311187 Report

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

Pham number 311187 has 255 members, 41 are drafts.

Phages represented in each track:

- Track 1 : NEHalo_58, GageAP_62, Blackflame_57, SpikeBT_59, Pollywog_86, Makemake_63, AFIS_57
- Track 2 : Ohno789_61, Dreamboat_62, Jasper_61, Cueylyss_61, Graduation_65, PherrisBueller_60
- Track 3 : Bones_60
- Track 4 : Scowl_62, StrongArm_59, Bexan_58
- Track 5 : Inyanga_56, Iqorha_56
- Track 6 : Alvin_61
- Track 7 : Marsha_82
- Track 8 : Beatrix_60
- Track 9 : Blue_60
- Track 10 : Sandaddy_57, Sorpresa_58
- Track 11 : Sunshine924_66
- Track 12 : PowerRanger_59, Euphoria_59
- Track 13 : Seanderson_63
- Track 14 : Alsfro_67
- Track 15 : Carlyle_61
- Track 16 : TheloniousMonk_64
- Track 17 : HighStump_54, Legolas_54, Longacauda_53, Iridessa_53, Orwigg_52
- Track 18 : LeiMonet_54, Grand2040_52, Maru_52, Giraffe_53, Cosmolli16_53
- Track 19 : Nicole21_53
- Track 20 : SwainyDoc_51, DaddyDaniels_54, Chentzyk_51, Rita1961_51, Kronus_50, Childish_52, MmasiCarm_51, Obutu_51, Soile_53, Brilliant_54, Mortcellus_50, Kahve_52, Casbah_50, Ben11_50, Gervas_51, HenryJackson_52, Marlia_51, Craff_55, Mulaychimus_51, TinyTerror_51, SlippinJimmy_52, Phayeta_52
- Track 21 : Duckfeet_6, Ronan_6, CharlieB_5, LRRHood_6, Lethe_6, Koguma_6, Grungle_6, Sprinklers_6, Yassified_6, IkeLoa_6, ET08_5, Bigswole_5, Phox_6, BeanWater_5, Lukilu_6, Blackdragon_5, Cali_6, Shaqnato_6
- Track 22 : Bezza_13, Flabslab_16, Alice_15
- Track 23 : Moiqah_10, Moby_10
- Track 24 : Halldule_6
- Track 25 : Tonenili_20
- Track 26 : DeejaClivia_12
- Track 27 : JigglyPuff_6
- Track 28 : ScoobyDoobyDoo_2
- Track 29 : Erk16_85

- Track 30 : PLOT_85, Adjutor_82, Visconti_85, Thoth_84, WaldoWhy_85, Butterscotch_82, Mopey_86, Giuseppe_86, Prager_84, Chill_85, Penelope2018_84
- Track 31 : Delton_83
- Track 32 : SuperheroCarly_83
- Track 33 : StormChicken_44, MPhalcon_42, Buck_43, Nala_43, MISSy_42, Becksu_43, Rimmer_43, TeamEdward_44, Youngblood_44
- Track 34 : Kostya_43, PhatBacter_45, xkcd_46, Greep_46, Phaux_44, Palpatine_45, BigBubba_43, HufflyPuff_44, Terminus_44, Petra64142_47, FireRed_45, Misfit_44, Nimrod_45, BugsBunny_43, Livilaughbron_46, Policronamos_45, Murica_44
- Track 35 : Holt_45
- Track 36 : Saints25_43, Highbury_43
- Track 37 : Balomoji_45
- Track 38 : FairyPath_42, Quallification_43
- Track 39 : SirDuracell_42
- Track 40 : Manda_46
- Track 41 : Seabastian_94, Modragons_91, OfUltron_94, Jinglebell_93, Llama_93, Ochi17_92
- Track 42 : Boomer_81, Llij_73, Rockne_78, PMC_74, Phatniss_74
- Track 43 : Sarma624_77, Brookers_73, Cerasum_72, Velveteen_73, BigPhil_72, Coco12_75
- Track 44 : Latretium_78, MrPhizzler_54, BoogieWoogie_53, RedRaider77_10, VasuNzinga_9, DoLon_56, Rimu_53, Fringe_56, Khan1_53, Gwilliam_53, Lumine_53
- Track 45 : Chuckly_76
- Track 46 : Mova_78
- Track 47 : Drago_74, DirtMcgirt_76, UncleRicky_76, Enby_78, Lorde_77, Lucia_76
- Track 48 : Juniper1_77
- Track 49 : Aubs_80
- Track 50 : Bobi_85, Nitzel_73, KristaRAM_77
- Track 51 : Harley_78
- Track 52 : Cheesepuff_89
- Track 53 : Beanstalk_79
- Track 54 : Nichirin_86
- Track 55 : Topiatin_85
- Track 56 : Byougenkin_78
- Track 57 : Oksu_89
- Track 58 : BuzzLyseyear_87
- Track 59 : Slim_89, Emmaloid_89, Sabbb_88
- Track 60 : Batiatus_78
- Track 61 : Moonbeam_87, Rialto_90
- Track 62 : Harley_88
- Track 63 : Medindi_83
- Track 64 : TDanisky_93
- Track 65 : Jant_84
- Track 66 : IbOuu_74
- Track 67 : MulchExplorer_78
- Track 68 : Fancypants_85
- Track 69 : Rita_85
- Track 70 : Estave1_91
- Track 71 : lbhubesi_77
- Track 72 : Eradicator_69
- Track 73 : Whatsapiecost_73
- Track 74 : Ovechkin_85

- Track 75 : DeadP_80
- Track 76 : Kersh_88
- Track 77 : Tchotchke_73
- Track 78 : Demsculpinboyz_94
- Track 79 : Renaud18_72
- Track 80 : Zelink_71, Superphikiman_71, Schatzie_68, Redno2_70, Kalah2_68, Ejimix_73, DmpstrDiver_73, Squint_74, Beem_73, JuicyJay_72, NihilNomen_74, Halley_75, Phoebus_76, HokkenD_66, Porcelain_73, Odette_72, MiaZeal_74, Dallas_72, Ariel_73
- Track 81 : Bagrid_72, EricMillard_72
- Track 82 : KashFlow_71
- Track 83 : KashFlow_72
- Track 84 : Xiaokay_68, Constella_64, Thibault_65
- Track 85 : BronnyJames_75, Nibley_68, Shaboozey_74
- Track 86 : Marleymoo_67
- Track 87 : Courthouse_75
- Track 88 : Thibault_74
- Track 89 : Hidrated_70
- Track 90 : Bobby_75
- Track 91 : Klein_78, Wanda_82
- Track 92 : Lucky2013_71
- Track 93 : Hughesyang_72
- Track 94 : MadKillah_102
- Track 95 : Marvin_10
- Track 96 : Caprice_8

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

The start number called the most often in the published annotations is 68, it was called in 130 of the 214 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alice_15, Alsfro_67, Alvin_61, Ariel_73, Aubs_80, Batiatus_78, BeanWater_5, Becksu_43, Beem_73, Ben11_50, Bezza_13, BigBubba_43, Bigswole_5, Blackdragon_5, Blue_60, Bobby_75, Bobi_85, Boomer_81, Brilliant_54, Buck_43, BugsBunny_43, Cali_6, Carlyle_61, Casbah_50, CharlieB_5, Cheesepuff_89, Chentzyk_51, Childish_52, Chuckly_76, Constella_64, Craff_55, DaddyDaniels_54, Dallas_72, DeadP_80, DirtMcgirt_76, DmpstrDiver_73, Drago_74, Duckfeet_6, ET08_5, Ejimix_73, Enby_78, Eradicator_69, Euphoria_59, FairyPath_42, FireRed_45, Flabslab_16, Gervas_51, Greep_46, Grungle_6, Halldule_6, Halley_75, HenryJackson_52, Hidrated_70, HighStump_54, Highbury_43, HokkenD_66, Holt_45, HuffyPuff_44, Hughesyang_72, IbOuu_74, IkeLoa_6, Inyanga_56, Iqorha_56, Iridessa_53, Jant_84, Jinglebell_93, JuicyJay_72, Kahve_52, Kalah2_68, KashFlow_71, KashFlow_72, Koguma_6, Kostya_43, KristaRAM_77, Kronus_50, LRRHood_6, Legolas_54, Lethe_6, Liveloughbron_46, Llama_93, Llij_73, Longacauda_53, Lorde_77, Lucia_76, Lukilu_6, MISSy_42, MPhalcon_42, Marlia_51, MiaZeal_74, Misfit_44, MmasiCarm_51, Modragons_91, Mortcellus_50, Mulaychimus_51, Murica_44, Nala_43, Nicole21_53, NihilNomen_74, Nimrod_45, Nitzel_73, Obutu_51, Ochi17_92, Odette_72, OfUltron_94, Oksu_89, Orwigg_52, PMC_74, Palpatine_45, Petra64142_47, PhatBacter_45, Phatniss_74, Phaux_44,

Phayeta_52, Phoebus_76, Phox_6, Policronamos_45, Porcelain_73, PowerRanger_59, Quallification_43, Redno2_70, Renaud18_72, Rimmer_43, Rita1961_51, Rockne_78, Ronan_6, Saints25_43, Schatzie_68, Seabastian_94, Seanderson_63, Shaqnato_6, SlippinJimmy_52, Soile_53, Sprinklers_6, Squint_74, StormChicken_44, Sunshine924_66, Superphikiman_71, SwainyDoc_51, Tchotchke_73, TeamEdward_44, Terminus_44, TheloniousMonk_64, Thibault_65, Thibault_74, TinyTerror_51, UncleRicky_76, Whatsapiecost_73, Xiaokay_68, Yassified_6, Youngblood_44, Zelink_71, xkcd_46,

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

- BronnyJames_75, Emmaloid_89, Kersh_88, Lucky2013_71, Moonbeam_87, Nibley_68, Nichirin_86, Ovechkin_85, Rialto_90, Sabbb_88, Shaboozey_74, Slim_89,

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

- AFIS_57, Adjutor_82, Bagrid_72, Balomoji_45, Beanstalk_79, Beatrix_60, Bexan_58, BigPhil_72, Blackflame_57, Bones_60, BoogieWoogie_53, Brookers_73, Butterscotch_82, BuzzLyseyear_87, Byougenkin_78, Caprice_8, Cerasum_72, Chill_85, Coco12_75, Cosmolli16_53, Courthouse_75, Cueylyss_61, DeejaClivia_12, Delton_83, Demsculpinboyz_94, DolOn_56, Dreamboat_62, EricMillard_72, Erk16_85, Estave1_91, Fancypants_85, Fringe_56, GageAP_62, Giraffe_53, Giuseppe_86, Graduation_65, Grand2040_52, Gwilliam_53, Harley_78, Harley_88, Ibhubesi_77, Jasper_61, JigglyPuff_6, Juniper1_77, Khan1_53, Klein_78, Latretium_78, LeiMonet_54, Lumine_53, MadKillah_102, Makemake_63, Manda_46, Marleymoo_67, Marsha_82, Maru_52, Marvin_10, Medindi_83, Moby_10, Moiqah_10, Mopey_86, Mova_78, MrPhizzler_54, MulchExplorer_78, NEHalo_58, Ohno789_61, PLOT_85, Penelope2018_84, PherrisBueller_60, Pollywog_86, Prager_84, RedRaider77_10, Rimu_53, Rita_85, Sandaddy_57, Sarma624_77, ScoobyDoobyDoo_2, Scowl_62, SirDuracell_42, Sorpresa_58, SpikeBT_59, StrongArm_59, SuperheroCarly_83, TDanisky_93, Thoth_84, Tonenili_20, Topiatin_85, VasuNzinga_9, Velveteen_73, Visconti_85, WaldoWhy_85, Wanda_82,

Summary by start number:

Start 26:

- Found in 2 of 255 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Byougenkin_78 (F1),

Start 28:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SirDuracell_42 (E),

Start 29:

- Found in 13 of 255 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Delton_83 (D1),

Start 36:

- Found in 2 of 255 (0.8%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Moby_10 (C1), Moiqah_10 (C1),

Start 37:

- Found in 1 of 255 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Medindi_83 (F1),

Start 49:

- Found in 1 of 255 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beanstalk_79 (F1),

Start 52:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ovechkin_85 (F1),

Start 56:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MulchExplorer_78 (F1),

Start 57:

- Found in 8 of 255 (3.1%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Nichirin_86 (F1),

Start 61:

- Found in 3 of 255 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BronnyJames_75 (J), Nibley_68 (J), Shaboozey_74 (J),

Start 62:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rita_85 (F1),

Start 63:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Harley_78 (F1),

Start 65:

- Found in 2 of 255 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Fancypants_85 (F1),

Start 66:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mova_78 (F1),

Start 67:

- Found in 1 of 255 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marleymoo_67 (J),

Start 68:

- Found in 164 of 255 (64.3%) of genes in pham
- Manual Annotations of this start: 130 of 214
- Called 92.7% of time when present
- Phage (with cluster) where this start called: Alice_15 (C1), Alsfro_67 (A1), Alvin_61 (A1), Ariel_73 (J), Aubs_80 (F1), Batiatus_78 (F1), BeanWater_5 (C1), Becksu_43 (E), Beem_73 (J), Ben11_50 (B3), Bezza_13 (C1), BigBubba_43 (E), Bigswole_5 (C1), Blackdragon_5 (C1), Blue_60 (A1), Bobby_75 (J), Bobi_85 (F1), Boomer_81 (F1), Brilliant_54 (B1), Buck_43 (E), BugsBunny_43 (E), Cali_6 (C1), Carlyle_61 (A1), Casbah_50 (B3), CharlieB_5 (C1), Cheesepuff_89 (F1), Chentzyk_51 (B3), Childish_52 (B1), Chuckly_76 (F1), Constella_64 (J), Craff_55 (B1), DaddyDaniels_54 (B1), Dallas_72 (J), DeadP_80 (F1), DirtMcgirt_76 (F1), DmpstrDiver_73 (J), Drago_74 (F1), Duckfeet_6 (C1), ET08_5 (C1), Ejimix_73 (J), Enby_78 (F1), Eradicator_69 (F1), Euphoria_59 (A1), FairyPath_42 (E), FireRed_45 (E), Flabslab_16 (C1), Gervas_51 (B3), Greep_46 (E), Grungle_6 (C1), Halldule_6 (C1), Halley_75 (J), HenryJackson_52 (B1), Hidrated_70 (J), HighStump_54 (B1), Highbury_43 (E), HokkenD_66 (J), Holt_45 (E), HufflyPuff_44 (E), Hughesyang_72 (J), IbOuu_74 (F1), IkeLoa_6 (C1), Inyanga_56 (A1), Iqorha_56 (A1), Iridessa_53 (B1), Jant_84 (F1), Jinglebell_93 (F1), JuicyJay_72 (J), Kahve_52 (B1), Kalah2_68 (J), KashFlow_71 (J), KashFlow_72 (J), Koguma_6 (C1), Kostya_43 (E), KristaRAM_77 (F1), Kronus_50 (B3), LRRHood_6 (C1), Legolas_54 (B1), Lethe_6 (C1), Liveloughbron_46 (E), Llama_93 (F1), Llij_73 (F1), Longacauda_53 (B1), Lorde_77 (F1), Lucia_76 (F1), Lukilu_6 (C1), MISSy_42 (E), MPhalcon_42 (E), Marlia_51 (B3), MiaZeal_74 (J), Misfit_44 (E), MmasiCarm_51 (B3), Modragons_91 (F1), Mortcellus_50 (B3), Mulaychimus_51 (B3), Murica_44 (E), Nala_43 (E), Nicole21_53 (B1), NihilNomen_74 (J), Nimrod_45 (E), Nitzel_73 (F1), Obutu_51 (B3), Ochi17_92 (F1), Odette_72 (J), OfUltron_94 (F1), Oksu_89 (F1), Orwigg_52 (B1), PMC_74 (F1), Palpatine_45 (E), Petra64142_47 (E), PhatBacter_45 (E), Phatniss_74 (F1), Phaux_44 (E), Phayeta_52 (B3), Phoebus_76 (J), Phox_6 (C1), Policronamos_45 (E), Porcelain_73 (J), PowerRanger_59 (A1), Qualification_43 (E), Redno2_70 (J), Renaud18_72 (F4), Rimmer_43 (E), Rita1961_51 (B3), Rockne_78 (F1), Ronan_6 (C1), Saints25_43 (E), Schatzie_68 (J), Seabastian_94 (F1), Seanderson_63 (A1), Shaqnato_6 (C1), SlippinJimmy_52 (B3), Soile_53 (B1), Sprinklers_6 (C1), Squint_74 (J), StormChicken_44 (E), Sunshine924_66 (A1), Superphikiman_71 (J), SwainyDoc_51 (B3), Tchotchke_73 (F1), TeamEdward_44

(E), Terminus_44 (E), TheloniousMonk_64 (A1), Thibault_65 (J), Thibault_74 (J), TinyTerror_51 (B3), UncleRicky_76 (F1), Whatsapiecost_73 (F1), Xiaokay_68 (J), Yassified_6 (C1), Youngblood_44 (E), Zelink_71 (J), xkcd_46 (E),

Start 70:

- Found in 3 of 255 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Balomoji_45 (E), Klein_78 (J), Wanda_82 (J),

Start 73:

- Found in 141 of 255 (55.3%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 0.7% of time when present
- Phage (with cluster) where this start called: Lucky2013_71 (J),

Start 78:

- Found in 11 of 255 (4.3%) of genes in pham
- Manual Annotations of this start: 9 of 214
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Bagrid_72 (J), Emmaloid_89 (F1), EricMillard_72 (J), Kersh_88 (F1), MadKillah_102 (O), Moonbeam_87 (F1), Rialto_90 (F1), Sabbb_88 (F1), Slim_89 (F1), TDanisky_93 (F1),

Start 82:

- Found in 7 of 255 (2.7%) of genes in pham
- Manual Annotations of this start: 7 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigPhil_72 (F1), Brookers_73 (F1), Cerasum_72 (F1), Coco12_75 (F1), lbhubesi_77 (F1), Sarma624_77 (F1), Velveteen_73 (F1),

Start 84:

- Found in 3 of 255 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Estave1_91 (F1), Harley_88 (F1), Topiatin_85 (F1),

Start 85:

- Found in 15 of 255 (5.9%) of genes in pham
- Manual Annotations of this start: 14 of 214
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Adjutor_82 (D1), Butterscotch_82 (D1), Chill_85 (D1), Erk16_85 (D1), Giuseppe_86 (D1), Marsha_82 (A1), Mopey_86 (D1), PLOT_85 (D1), Penelope2018_84 (D1), Prager_84 (D1), SuperheroCarly_83 (D1), Thoth_84 (D1), Visconti_85 (D1), WaldoWhy_85 (D1),

Start 87:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Manda_46 (E),

Start 92:

- Found in 1 of 255 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juniper1_77 (F1),

Start 94:

- Found in 1 of 255 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caprice_8 (S),

Start 95:

- Found in 2 of 255 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BuzzLyseyear_87 (F1), DeejaClivia_12 (C1),

Start 96:

- Found in 41 of 255 (16.1%) of genes in pham
- Manual Annotations of this start: 35 of 214
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AFIS_57 (A1), Beatrix_60 (A1), Bexan_58 (A1), Blackflame_57 (A1), Bones_60 (A1), BoogieWoogie_53 (B1), Cosmolli16_53 (B1), Courthouse_75 (J), Cueylyss_61 (A1), Demsculpinboyz_94 (F2), DolOn_56 (B1), Dreamboat_62 (A1), Fringe_56 (B1), GageAP_62 (A1), Giraffe_53 (B1), Graduation_65 (A1), Grand2040_52 (B1), Gwilliam_53 (B1), Jasper_61 (A1), JigglyPuff_6 (C1), Khan1_53 (B1), Latretium_78 (F1), LeiMonet_54 (B1), Lumine_53 (B1), Makemake_63 (A1), Maru_52 (B1), Marvin_10 (S), MrPhizzler_54 (B1), NEHalo_58 (A1), Ohno789_61 (A1), PherrisBueller_60 (A1), Pollywog_86 (F1), RedRaider77_10 (S), Rimu_53 (B1), Sandaddy_57 (A1), ScoobyDoobyDoo_2 (C2), Scowl_62 (A1), Sorpresa_58 (A1), SpikeBT_59 (A1), StrongArm_59 (A1), VasuNzinga_9 (S),

Start 97:

- Found in 2 of 255 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 214
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tonenili_20 (C1),

Summary by clusters:

There are 13 clusters represented in this pham: F1, F2, E, J, O, A1, S, B1, B3, F4, C1, C2, D1,

Info for manual annotations of cluster A1:

- Start number 68 was manually annotated 9 times for cluster A1.
- Start number 85 was manually annotated 1 time for cluster A1.
- Start number 96 was manually annotated 17 times for cluster A1.

Info for manual annotations of cluster B1:

- Start number 68 was manually annotated 13 times for cluster B1.
- Start number 96 was manually annotated 10 times for cluster B1.

Info for manual annotations of cluster B3:

- Start number 68 was manually annotated 12 times for cluster B3.

Info for manual annotations of cluster C1:

- Start number 68 was manually annotated 18 times for cluster C1.
- Start number 97 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 96 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster D1:

- Start number 29 was manually annotated 1 time for cluster D1.
- Start number 85 was manually annotated 13 times for cluster D1.

Info for manual annotations of cluster E:

- Start number 28 was manually annotated 1 time for cluster E.
- Start number 68 was manually annotated 24 times for cluster E.
- Start number 70 was manually annotated 1 time for cluster E.
- Start number 87 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster F1:

- Start number 26 was manually annotated 1 time for cluster F1.
- Start number 52 was manually annotated 1 time for cluster F1.
- Start number 56 was manually annotated 1 time for cluster F1.
- Start number 62 was manually annotated 1 time for cluster F1.
- Start number 63 was manually annotated 1 time for cluster F1.
- Start number 65 was manually annotated 1 time for cluster F1.
- Start number 66 was manually annotated 1 time for cluster F1.
- Start number 68 was manually annotated 28 times for cluster F1.
- Start number 78 was manually annotated 7 times for cluster F1.
- Start number 82 was manually annotated 7 times for cluster F1.
- Start number 84 was manually annotated 2 times for cluster F1.
- Start number 92 was manually annotated 1 time for cluster F1.
- Start number 95 was manually annotated 1 time for cluster F1.
- Start number 96 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 96 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

- Start number 68 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster J:

- Start number 68 was manually annotated 25 times for cluster J.
- Start number 70 was manually annotated 2 times for cluster J.
- Start number 73 was manually annotated 1 time for cluster J.
- Start number 78 was manually annotated 1 time for cluster J.
- Start number 96 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster O:

- Start number 78 was manually annotated 1 time for cluster O.

Info for manual annotations of cluster S:

- Start number 96 was manually annotated 3 times for cluster S.

Gene Information:

Gene: AFIS_57 Start: 39716, Stop: 39357, Start Num: 96

Candidate Starts for AFIS_57:

(22, 39917), (74, 39773), (75, 39770), (Start: 96 @39716 has 35 MA's), (100, 39704), (123, 39569), (127, 39533), (129, 39527), (164, 39395),

Gene: Adjutor_82 Start: 59655, Stop: 60050, Start Num: 85

Candidate Starts for Adjutor_82:

(Start: 29 @59532 has 1 MA's), (Start: 85 @59655 has 14 MA's), (106, 59730), (121, 59802), (123, 59835), (127, 59871), (129, 59877), (164, 60009), (167, 60027),

Gene: Alice_15 Start: 5418, Stop: 5885, Start Num: 68

Candidate Starts for Alice_15:

(12, 5256), (Start: 68 @5418 has 130 MA's), (Start: 73 @5430 has 1 MA's), (116, 5580), (123, 5640), (166, 5811),

Gene: Alsfro_67 Start: 41490, Stop: 41089, Start Num: 68

Candidate Starts for Alsfro_67:

(3, 41700), (5, 41691), (38, 41547), (40, 41544), (Start: 68 @41490 has 130 MA's), (Start: 73 @41478 has 1 MA's), (90, 41433), (104, 41394), (123, 41298), (126, 41271), (128, 41265), (131, 41244), (149, 41196),

Gene: Alvin_61 Start: 40955, Stop: 40545, Start Num: 68

Candidate Starts for Alvin_61:

(5, 41156), (38, 41012), (40, 41009), (Start: 68 @40955 has 130 MA's), (90, 40898), (104, 40859), (123, 40763),

Gene: Ariel_73 Start: 46707, Stop: 46291, Start Num: 68

Candidate Starts for Ariel_73:

(Start: 68 @46707 has 130 MA's), (Start: 73 @46695 has 1 MA's), (104, 46611), (111, 46593), (123, 46515), (125, 46485), (135, 46446), (137, 46443),

Gene: Aubs_80 Start: 49176, Stop: 49556, Start Num: 68

Candidate Starts for Aubs_80:

(Start: 68 @49176 has 130 MA's), (Start: 73 @49191 has 1 MA's), (140, 49398), (143, 49404), (148, 49428), (167, 49527),

Gene: Bagrid_72 Start: 50124, Stop: 49711, Start Num: 78

Candidate Starts for Bagrid_72:

(Start: 78 @50124 has 9 MA's), (83, 50112), (108, 50028), (112, 50010), (123, 49932), (127, 49896), (129, 49890), (164, 49758),

Gene: Balomoji_45 Start: 36485, Stop: 36057, Start Num: 70

Candidate Starts for Balomoji_45:

(59, 36506), (Start: 65 @36494 has 1 MA's), (Start: 70 @36485 has 3 MA's), (Start: 73 @36473 has 1 MA's), (114, 36335), (116, 36323), (123, 36263), (167, 36086),

Gene: Batiatus_78 Start: 48266, Stop: 48646, Start Num: 68

Candidate Starts for Batiatus_78:

(Start: 68 @48266 has 130 MA's), (Start: 73 @48281 has 1 MA's), (123, 48401), (140, 48488), (143, 48494), (148, 48518), (167, 48617),

Gene: BeanWater_5 Start: 2594, Stop: 3034, Start Num: 68

Candidate Starts for BeanWater_5:

(Start: 68 @2594 has 130 MA's), (Start: 73 @2606 has 1 MA's), (110, 2726), (123, 2816), (128, 2858), (156, 2954), (161, 2978),

Gene: Beanstalk_79 Start: 47841, Stop: 48317, Start Num: 49

Candidate Starts for Beanstalk_79:

(49, 47841), (50, 47844), (74, 47901), (75, 47904), (79, 47916), (107, 48006), (123, 48108), (142, 48186), (145, 48198), (147, 48201),

Gene: Beatrix_60 Start: 41870, Stop: 41490, Start Num: 96

Candidate Starts for Beatrix_60:

(22, 42071), (74, 41927), (75, 41924), (Start: 96 @41870 has 35 MA's), (100, 41858), (123, 41702), (127, 41666), (129, 41660), (164, 41528),

Gene: Becksu_43 Start: 35704, Stop: 35261, Start Num: 68

Candidate Starts for Becksu_43:

(34, 35776), (Start: 68 @35704 has 130 MA's), (Start: 73 @35692 has 1 MA's), (116, 35542), (123, 35482), (127, 35446), (129, 35440), (164, 35308),

Gene: Beem_73 Start: 50984, Stop: 50568, Start Num: 68

Candidate Starts for Beem_73:

(Start: 68 @50984 has 130 MA's), (Start: 73 @50972 has 1 MA's), (104, 50888), (111, 50870), (123, 50792), (125, 50762), (135, 50723), (137, 50720),

Gene: Ben11_50 Start: 45429, Stop: 44986, Start Num: 68

Candidate Starts for Ben11_50:

(Start: 68 @45429 has 130 MA's), (Start: 73 @45417 has 1 MA's), (110, 45297), (116, 45267), (123, 45207), (127, 45171), (129, 45165), (164, 45033),

Gene: Bexan_58 Start: 41649, Stop: 41269, Start Num: 96

Candidate Starts for Bexan_58:

(74, 41706), (75, 41703), (Start: 96 @41649 has 35 MA's), (100, 41637), (123, 41481), (127, 41445), (129, 41439), (164, 41307),

Gene: Bezza_13 Start: 5418, Stop: 5885, Start Num: 68

Candidate Starts for Bezza_13:

(12, 5256), (Start: 68 @5418 has 130 MA's), (Start: 73 @5430 has 1 MA's), (116, 5580), (123, 5640), (166, 5811),

Gene: BigBubba_43 Start: 35101, Stop: 34667, Start Num: 68

Candidate Starts for BigBubba_43:

(31, 35173), (Start: 68 @35101 has 130 MA's), (Start: 73 @35089 has 1 MA's), (116, 34939), (123, 34879),

Gene: BigPhil_72 Start: 44249, Stop: 44626, Start Num: 82
Candidate Starts for BigPhil_72:
(Start: 82 @44249 has 7 MA's), (89, 44264), (123, 44420), (130, 44462), (151, 44528), (152, 44531),
(167, 44600),

Gene: Bigswole_5 Start: 1613, Stop: 2053, Start Num: 68
Candidate Starts for Bigswole_5:
(Start: 68 @1613 has 130 MA's), (Start: 73 @1625 has 1 MA's), (110, 1745), (123, 1835), (128, 1877),
(156, 1973), (161, 1997),

Gene: Blackdragon_5 Start: 1616, Stop: 2056, Start Num: 68
Candidate Starts for Blackdragon_5:
(Start: 68 @1616 has 130 MA's), (Start: 73 @1628 has 1 MA's), (110, 1748), (123, 1838), (128, 1880),
(156, 1976), (161, 2000),

Gene: Blackflame_57 Start: 40484, Stop: 40125, Start Num: 96
Candidate Starts for Blackflame_57:
(22, 40685), (74, 40541), (75, 40538), (Start: 96 @40484 has 35 MA's), (100, 40472), (123, 40337),
(127, 40301), (129, 40295), (164, 40163),

Gene: Blue_60 Start: 41591, Stop: 41178, Start Num: 68
Candidate Starts for Blue_60:
(38, 41648), (40, 41645), (Start: 68 @41591 has 130 MA's), (90, 41534), (104, 41495), (123, 41399),
(165, 41228),

Gene: Bobby_75 Start: 51169, Stop: 50789, Start Num: 68
Candidate Starts for Bobby_75:
(Start: 68 @51169 has 130 MA's), (Start: 73 @51157 has 1 MA's), (123, 51022), (125, 50995), (130,
50977), (135, 50950), (154, 50881), (155, 50878), (162, 50842),

Gene: Bobi_85 Start: 50553, Stop: 50930, Start Num: 68
Candidate Starts for Bobi_85:
(Start: 68 @50553 has 130 MA's), (Start: 73 @50568 has 1 MA's), (123, 50688), (140, 50775), (143,
50781), (148, 50805), (160, 50868), (167, 50907),

Gene: Bones_60 Start: 41965, Stop: 41585, Start Num: 96
Candidate Starts for Bones_60:
(17, 42175), (22, 42166), (74, 42022), (75, 42019), (Start: 96 @41965 has 35 MA's), (100, 41953),
(123, 41797), (127, 41761), (129, 41755), (164, 41623),

Gene: BoogieWoogie_53 Start: 47371, Stop: 46982, Start Num: 96
Candidate Starts for BoogieWoogie_53:
(Start: 96 @47371 has 35 MA's), (100, 47359), (123, 47203), (127, 47167), (129, 47161), (164, 47029),

Gene: Boomer_81 Start: 48708, Stop: 49136, Start Num: 68
Candidate Starts for Boomer_81:
(Start: 68 @48708 has 130 MA's), (Start: 73 @48723 has 1 MA's), (93, 48777), (116, 48870), (123,
48930), (167, 49107),

Gene: Brilliant_54 Start: 47338, Stop: 46895, Start Num: 68
Candidate Starts for Brilliant_54:
(Start: 68 @47338 has 130 MA's), (Start: 73 @47326 has 1 MA's), (110, 47206), (116, 47176), (123,
47116), (127, 47080), (129, 47074), (164, 46942),

Gene: BronnyJames_75 Start: 47278, Stop: 46868, Start Num: 61

Candidate Starts for BronnyJames_75:

(61, 47278), (Start: 68 @47266 has 130 MA's), (123, 47086), (127, 47050), (129, 47044), (164, 46912),

Gene: Brookers_73 Start: 47200, Stop: 47577, Start Num: 82

Candidate Starts for Brookers_73:

(Start: 82 @47200 has 7 MA's), (89, 47215), (123, 47371), (130, 47413), (151, 47479), (152, 47482), (167, 47551),

Gene: Buck_43 Start: 35755, Stop: 35318, Start Num: 68

Candidate Starts for Buck_43:

(34, 35827), (Start: 68 @35755 has 130 MA's), (Start: 73 @35743 has 1 MA's), (116, 35593), (123, 35533), (127, 35497), (129, 35491), (164, 35359),

Gene: BugsBunny_43 Start: 35586, Stop: 35152, Start Num: 68

Candidate Starts for BugsBunny_43:

(31, 35658), (Start: 68 @35586 has 130 MA's), (Start: 73 @35574 has 1 MA's), (116, 35424), (123, 35364),

Gene: Butterscotch_82 Start: 59706, Stop: 60101, Start Num: 85

Candidate Starts for Butterscotch_82:

(Start: 29 @59583 has 1 MA's), (Start: 85 @59706 has 14 MA's), (106, 59781), (121, 59853), (123, 59886), (127, 59922), (129, 59928), (164, 60060), (167, 60078),

Gene: BuzzLyseyear_87 Start: 51492, Stop: 51857, Start Num: 95

Candidate Starts for BuzzLyseyear_87:

(Start: 95 @51492 has 1 MA's), (100, 51507), (123, 51642), (127, 51678), (129, 51684), (164, 51816),

Gene: Byougenkin_78 Start: 46058, Stop: 46567, Start Num: 26

Candidate Starts for Byougenkin_78:

(25, 46055), (Start: 26 @46058 has 1 MA's), (46, 46115), (48, 46118), (54, 46130), (60, 46145), (99, 46235), (117, 46292), (123, 46334), (125, 46361), (130, 46379), (135, 46406), (154, 46475), (155, 46478), (162, 46514),

Gene: Cali_6 Start: 2751, Stop: 3191, Start Num: 68

Candidate Starts for Cali_6:

(Start: 68 @2751 has 130 MA's), (Start: 73 @2763 has 1 MA's), (110, 2883), (123, 2973), (128, 3015), (156, 3111), (161, 3135),

Gene: Caprice_8 Start: 2539, Stop: 2922, Start Num: 94

Candidate Starts for Caprice_8:

(94, 2539), (100, 2554), (123, 2710), (127, 2746), (129, 2752), (164, 2884),

Gene: Carlyle_61 Start: 39697, Stop: 39242, Start Num: 68

Candidate Starts for Carlyle_61:

(40, 39754), (42, 39751), (Start: 68 @39697 has 130 MA's), (117, 39535), (119, 39532), (123, 39475), (125, 39448), (130, 39430), (135, 39403), (154, 39334), (155, 39331), (162, 39295),

Gene: Casbah_50 Start: 45459, Stop: 45016, Start Num: 68

Candidate Starts for Casbah_50:

(Start: 68 @45459 has 130 MA's), (Start: 73 @45447 has 1 MA's), (110, 45327), (116, 45297), (123, 45237), (127, 45201), (129, 45195), (164, 45063),

Gene: Cerasum_72 Start: 44267, Stop: 44644, Start Num: 82

Candidate Starts for Cerasum_72:

(Start: 82 @44267 has 7 MA's), (89, 44282), (123, 44438), (130, 44480), (151, 44546), (152, 44549), (167, 44618),

Gene: CharlieB_5 Start: 1612, Stop: 2052, Start Num: 68

Candidate Starts for CharlieB_5:

(Start: 68 @1612 has 130 MA's), (Start: 73 @1624 has 1 MA's), (110, 1744), (123, 1834), (128, 1876), (156, 1972), (161, 1996),

Gene: Cheese puff_89 Start: 49033, Stop: 49464, Start Num: 68

Candidate Starts for Cheese puff_89:

(Start: 68 @49033 has 130 MA's), (Start: 73 @49045 has 1 MA's), (104, 49129), (111, 49147), (123, 49225), (125, 49252), (135, 49297), (146, 49324), (155, 49369), (162, 49405), (169, 49441),

Gene: Chentzyk_51 Start: 45971, Stop: 45528, Start Num: 68

Candidate Starts for Chentzyk_51:

(Start: 68 @45971 has 130 MA's), (Start: 73 @45959 has 1 MA's), (110, 45839), (116, 45809), (123, 45749), (127, 45713), (129, 45707), (164, 45575),

Gene: Childish_52 Start: 47365, Stop: 46922, Start Num: 68

Candidate Starts for Childish_52:

(Start: 68 @47365 has 130 MA's), (Start: 73 @47353 has 1 MA's), (110, 47233), (116, 47203), (123, 47143), (127, 47107), (129, 47101), (164, 46969),

Gene: Chill_85 Start: 59683, Stop: 60078, Start Num: 85

Candidate Starts for Chill_85:

(Start: 29 @59560 has 1 MA's), (Start: 85 @59683 has 14 MA's), (106, 59758), (121, 59830), (123, 59863), (127, 59899), (129, 59905), (164, 60037), (167, 60055),

Gene: Chuckly_76 Start: 45511, Stop: 45978, Start Num: 68

Candidate Starts for Chuckly_76:

(Start: 68 @45511 has 130 MA's), (Start: 73 @45526 has 1 MA's), (93, 45580), (116, 45673), (140, 45820), (143, 45826), (148, 45850), (160, 45913), (167, 45949),

Gene: Coco12_75 Start: 48324, Stop: 48701, Start Num: 82

Candidate Starts for Coco12_75:

(Start: 82 @48324 has 7 MA's), (89, 48339), (123, 48495), (130, 48537), (151, 48603), (152, 48606), (167, 48675),

Gene: Constella_64 Start: 46367, Stop: 45930, Start Num: 68

Candidate Starts for Constella_64:

(Start: 68 @46367 has 130 MA's), (116, 46205), (118, 46202), (123, 46145), (127, 46109), (129, 46103), (164, 45971),

Gene: Cosmolli16_53 Start: 47545, Stop: 47198, Start Num: 96

Candidate Starts for Cosmolli16_53:

(Start: 96 @47545 has 35 MA's), (100, 47533), (123, 47413), (127, 47377), (129, 47371), (164, 47239), (167, 47221),

Gene: Courthouse_75 Start: 48166, Stop: 47780, Start Num: 96

Candidate Starts for Courthouse_75:

(Start: 96 @48166 has 35 MA's), (100, 48154), (123, 47998), (127, 47962), (129, 47956), (164, 47824),

Gene: Craff_55 Start: 47790, Stop: 47347, Start Num: 68

Candidate Starts for Craff_55:

(Start: 68 @47790 has 130 MA's), (Start: 73 @47778 has 1 MA's), (110, 47658), (116, 47628), (123, 47568), (127, 47532), (129, 47526), (164, 47394),

Gene: Cueylyss_61 Start: 42165, Stop: 41785, Start Num: 96

Candidate Starts for Cueylyss_61:

(22, 42366), (74, 42222), (75, 42219), (Start: 96 @42165 has 35 MA's), (100, 42153), (123, 41997), (127, 41961), (129, 41955), (164, 41823),

Gene: DaddyDaniels_54 Start: 47322, Stop: 46879, Start Num: 68

Candidate Starts for DaddyDaniels_54:

(Start: 68 @47322 has 130 MA's), (Start: 73 @47310 has 1 MA's), (110, 47190), (116, 47160), (123, 47100), (127, 47064), (129, 47058), (164, 46926),

Gene: Dallas_72 Start: 49905, Stop: 49489, Start Num: 68

Candidate Starts for Dallas_72:

(Start: 68 @49905 has 130 MA's), (Start: 73 @49893 has 1 MA's), (104, 49809), (111, 49791), (123, 49713), (125, 49683), (135, 49644), (137, 49641),

Gene: DeadP_80 Start: 47212, Stop: 47607, Start Num: 68

Candidate Starts for DeadP_80:

(Start: 68 @47212 has 130 MA's), (Start: 73 @47227 has 1 MA's), (140, 47449), (143, 47455), (148, 47479), (160, 47542), (167, 47581),

Gene: DeejaClivia_12 Start: 3961, Stop: 4326, Start Num: 95

Candidate Starts for DeejaClivia_12:

(Start: 95 @3961 has 1 MA's), (100, 3976), (123, 4111), (127, 4147), (129, 4153), (164, 4285),

Gene: Delton_83 Start: 59993, Stop: 60511, Start Num: 29

Candidate Starts for Delton_83:

(Start: 29 @59993 has 1 MA's), (Start: 85 @60116 has 14 MA's), (106, 60191), (121, 60263), (123, 60296), (127, 60332), (129, 60338), (164, 60470), (167, 60488),

Gene: Demsculpinboyz_94 Start: 48157, Stop: 48546, Start Num: 96

Candidate Starts for Demsculpinboyz_94:

(45, 48034), (86, 48127), (88, 48136), (Start: 96 @48157 has 35 MA's), (123, 48325), (127, 48361), (129, 48367), (164, 48499),

Gene: DirtMcgirt_76 Start: 45318, Stop: 45746, Start Num: 68

Candidate Starts for DirtMcgirt_76:

(Start: 68 @45318 has 130 MA's), (Start: 73 @45333 has 1 MA's), (93, 45387), (116, 45480), (123, 45540), (167, 45717),

Gene: DmpstrDiver_73 Start: 50332, Stop: 49916, Start Num: 68

Candidate Starts for DmpstrDiver_73:

(Start: 68 @50332 has 130 MA's), (Start: 73 @50320 has 1 MA's), (104, 50236), (111, 50218), (123, 50140), (125, 50110), (135, 50071), (137, 50068),

Gene: DolOn_56 Start: 48048, Stop: 47668, Start Num: 96

Candidate Starts for DolOn_56:

(Start: 96 @48048 has 35 MA's), (100, 48036), (123, 47880), (127, 47844), (129, 47838), (164, 47706),

Gene: Drago_74 Start: 45321, Stop: 45749, Start Num: 68

Candidate Starts for Drago_74:

(Start: 68 @45321 has 130 MA's), (Start: 73 @45336 has 1 MA's), (93, 45390), (116, 45483), (123, 45543), (167, 45720),

Gene: Dreamboat_62 Start: 40065, Stop: 39685, Start Num: 96

Candidate Starts for Dreamboat_62:

(22, 40266), (74, 40122), (75, 40119), (Start: 96 @40065 has 35 MA's), (100, 40053), (123, 39897), (127, 39861), (129, 39855), (164, 39723),

Gene: Duckfeet_6 Start: 1749, Stop: 2189, Start Num: 68

Candidate Starts for Duckfeet_6:

(Start: 68 @1749 has 130 MA's), (Start: 73 @1761 has 1 MA's), (110, 1881), (123, 1971), (128, 2013), (156, 2109), (161, 2133),

Gene: ET08_5 Start: 2600, Stop: 3040, Start Num: 68

Candidate Starts for ET08_5:

(Start: 68 @2600 has 130 MA's), (Start: 73 @2612 has 1 MA's), (110, 2732), (123, 2822), (128, 2864), (156, 2960), (161, 2984),

Gene: Ejimix_73 Start: 51773, Stop: 51354, Start Num: 68

Candidate Starts for Ejimix_73:

(Start: 68 @51773 has 130 MA's), (Start: 73 @51761 has 1 MA's), (104, 51677), (111, 51659), (123, 51581), (125, 51551), (135, 51512), (137, 51509),

Gene: Emmaloid_89 Start: 50002, Stop: 50415, Start Num: 78

Candidate Starts for Emmaloid_89:

(14, 49828), (16, 49837), (24, 49861), (27, 49879), (Start: 68 @49972 has 130 MA's), (72, 49981), (Start: 78 @50002 has 9 MA's), (101, 50059), (108, 50098), (123, 50194), (127, 50230), (129, 50236), (164, 50368),

Gene: Enby_78 Start: 45597, Stop: 46025, Start Num: 68

Candidate Starts for Enby_78:

(Start: 68 @45597 has 130 MA's), (Start: 73 @45612 has 1 MA's), (93, 45666), (116, 45759), (123, 45819), (167, 45996),

Gene: Eradicator_69 Start: 46041, Stop: 46469, Start Num: 68

Candidate Starts for Eradicator_69:

(Start: 68 @46041 has 130 MA's), (Start: 73 @46056 has 1 MA's), (93, 46110), (116, 46203), (123, 46263), (167, 46440),

Gene: EricMillard_72 Start: 50977, Stop: 50564, Start Num: 78

Candidate Starts for EricMillard_72:

(Start: 78 @50977 has 9 MA's), (83, 50965), (108, 50881), (112, 50863), (123, 50785), (127, 50749), (129, 50743), (164, 50611),

Gene: Erk16_85 Start: 60039, Stop: 60434, Start Num: 85

Candidate Starts for Erk16_85:

(Start: 29 @59916 has 1 MA's), (33, 59925), (Start: 85 @60039 has 14 MA's), (106, 60114), (121, 60186), (123, 60219), (127, 60255), (129, 60261), (164, 60393), (167, 60411),

Gene: Estave1_91 Start: 53006, Stop: 53392, Start Num: 84

Candidate Starts for Estave1_91:

(Start: 73 @52976 has 1 MA's), (75, 52985), (Start: 84 @53006 has 2 MA's), (123, 53192), (141, 53258), (167, 53366),

Gene: Euphoria_59 Start: 40555, Stop: 40109, Start Num: 68

Candidate Starts for Euphoria_59:

(38, 40612), (40, 40609), (Start: 68 @40555 has 130 MA's), (90, 40498), (104, 40459), (111, 40441), (123, 40363), (133, 40291), (144, 40267), (157, 40195), (169, 40132),

Gene: FairyPath_42 Start: 35650, Stop: 35204, Start Num: 68

Candidate Starts for FairyPath_42:

(31, 35722), (Start: 68 @35650 has 130 MA's), (Start: 73 @35638 has 1 MA's), (116, 35488), (123, 35428), (125, 35398), (134, 35359), (136, 35356),

Gene: Fancypants_85 Start: 50404, Stop: 50835, Start Num: 65

Candidate Starts for Fancypants_85:

(Start: 65 @50404 has 1 MA's), (114, 50548), (133, 50683),

Gene: FireRed_45 Start: 36025, Stop: 35591, Start Num: 68

Candidate Starts for FireRed_45:

(31, 36097), (Start: 68 @36025 has 130 MA's), (Start: 73 @36013 has 1 MA's), (116, 35863), (123, 35803),

Gene: Flabslab_16 Start: 5015, Stop: 5452, Start Num: 68

Candidate Starts for Flabslab_16:

(12, 4853), (Start: 68 @5015 has 130 MA's), (Start: 73 @5027 has 1 MA's), (116, 5177), (123, 5237), (166, 5408),

Gene: Fringe_56 Start: 48267, Stop: 47878, Start Num: 96

Candidate Starts for Fringe_56:

(Start: 96 @48267 has 35 MA's), (100, 48255), (123, 48099), (127, 48063), (129, 48057), (164, 47925),

Gene: GageAP_62 Start: 41383, Stop: 41024, Start Num: 96

Candidate Starts for GageAP_62:

(22, 41584), (74, 41440), (75, 41437), (Start: 96 @41383 has 35 MA's), (100, 41371), (123, 41236), (127, 41200), (129, 41194), (164, 41062),

Gene: Gervas_51 Start: 45588, Stop: 45145, Start Num: 68

Candidate Starts for Gervas_51:

(Start: 68 @45588 has 130 MA's), (Start: 73 @45576 has 1 MA's), (110, 45456), (116, 45426), (123, 45366), (127, 45330), (129, 45324), (164, 45192),

Gene: Giraffe_53 Start: 47326, Stop: 46979, Start Num: 96

Candidate Starts for Giraffe_53:

(Start: 96 @47326 has 35 MA's), (100, 47314), (123, 47194), (127, 47158), (129, 47152), (164, 47020), (167, 47002),

Gene: Giuseppe_86 Start: 59752, Stop: 60147, Start Num: 85

Candidate Starts for Giuseppe_86:

(Start: 29 @59629 has 1 MA's), (Start: 85 @59752 has 14 MA's), (106, 59827), (121, 59899), (123, 59932), (127, 59968), (129, 59974), (164, 60106), (167, 60124),

Gene: Graduation_65 Start: 42237, Stop: 41857, Start Num: 96
Candidate Starts for Graduation_65:
(22, 42438), (74, 42294), (75, 42291), (Start: 96 @42237 has 35 MA's), (100, 42225), (123, 42069),
(127, 42033), (129, 42027), (164, 41895),

Gene: Grand2040_52 Start: 47320, Stop: 46973, Start Num: 96
Candidate Starts for Grand2040_52:
(Start: 96 @47320 has 35 MA's), (100, 47308), (123, 47188), (127, 47152), (129, 47146), (164, 47014),
(167, 46996),

Gene: Greep_46 Start: 36317, Stop: 35883, Start Num: 68
Candidate Starts for Greep_46:
(31, 36389), (Start: 68 @36317 has 130 MA's), (Start: 73 @36305 has 1 MA's), (116, 36155), (123,
36095),

Gene: Grungle_6 Start: 1770, Stop: 2210, Start Num: 68
Candidate Starts for Grungle_6:
(Start: 68 @1770 has 130 MA's), (Start: 73 @1782 has 1 MA's), (110, 1902), (123, 1992), (128, 2034),
(156, 2130), (161, 2154),

Gene: Gwilliam_53 Start: 47683, Stop: 47303, Start Num: 96
Candidate Starts for Gwilliam_53:
(Start: 96 @47683 has 35 MA's), (100, 47671), (123, 47515), (127, 47479), (129, 47473), (164, 47341),

Gene: Halldule_6 Start: 1766, Stop: 2206, Start Num: 68
Candidate Starts for Halldule_6:
(Start: 68 @1766 has 130 MA's), (Start: 73 @1778 has 1 MA's), (110, 1898), (123, 1988), (124, 1991),
(128, 2030), (156, 2126), (161, 2150),

Gene: Halley_75 Start: 50984, Stop: 50568, Start Num: 68
Candidate Starts for Halley_75:
(Start: 68 @50984 has 130 MA's), (Start: 73 @50972 has 1 MA's), (104, 50888), (111, 50870), (123,
50792), (125, 50762), (135, 50723), (137, 50720),

Gene: Harley_78 Start: 47547, Stop: 47975, Start Num: 63
Candidate Starts for Harley_78:
(Start: 63 @47547 has 1 MA's), (113, 47694), (123, 47766), (142, 47844), (145, 47856), (147, 47859),

Gene: Harley_88 Start: 50437, Stop: 50829, Start Num: 84
Candidate Starts for Harley_88:
(1, 50143), (2, 50176), (20, 50263), (23, 50272), (27, 50296), (31, 50314), (Start: 73 @50407 has 1
MA's), (75, 50416), (Start: 84 @50437 has 2 MA's), (123, 50623), (130, 50665),

Gene: HenryJackson_52 Start: 47354, Stop: 46911, Start Num: 68
Candidate Starts for HenryJackson_52:
(Start: 68 @47354 has 130 MA's), (Start: 73 @47342 has 1 MA's), (110, 47222), (116, 47192), (123,
47132), (127, 47096), (129, 47090), (164, 46958),

Gene: Hidrated_70 Start: 50826, Stop: 50383, Start Num: 68
Candidate Starts for Hidrated_70:
(30, 50907), (50, 50865), (51, 50862), (Start: 68 @50826 has 130 MA's), (Start: 73 @50814 has 1
MA's), (93, 50760), (123, 50616), (125, 50589), (130, 50571), (135, 50544), (154, 50475), (155,
50472), (162, 50436),

Gene: HighStump_54 Start: 47890, Stop: 47447, Start Num: 68

Candidate Starts for HighStump_54:

(34, 47962), (43, 47941), (47, 47935), (Start: 68 @47890 has 130 MA's), (Start: 73 @47878 has 1 MA's), (110, 47758), (116, 47728), (123, 47668), (127, 47632), (129, 47626), (164, 47494),

Gene: Highbury_43 Start: 34897, Stop: 34421, Start Num: 68

Candidate Starts for Highbury_43:

(31, 34969), (Start: 68 @34897 has 130 MA's), (Start: 73 @34885 has 1 MA's), (116, 34735), (123, 34675), (132, 34603), (144, 34579), (156, 34507), (168, 34444),

Gene: HokkenD_66 Start: 49253, Stop: 48837, Start Num: 68

Candidate Starts for HokkenD_66:

(Start: 68 @49253 has 130 MA's), (Start: 73 @49241 has 1 MA's), (104, 49157), (111, 49139), (123, 49061), (125, 49031), (135, 48992), (137, 48989),

Gene: Holt_45 Start: 35325, Stop: 34888, Start Num: 68

Candidate Starts for Holt_45:

(31, 35397), (Start: 68 @35325 has 130 MA's), (Start: 73 @35313 has 1 MA's), (116, 35163), (123, 35103), (166, 34932),

Gene: HufflyPuff_44 Start: 35981, Stop: 35547, Start Num: 68

Candidate Starts for HufflyPuff_44:

(31, 36053), (Start: 68 @35981 has 130 MA's), (Start: 73 @35969 has 1 MA's), (116, 35819), (123, 35759),

Gene: Hughesyang_72 Start: 50943, Stop: 50497, Start Num: 68

Candidate Starts for Hughesyang_72:

(Start: 68 @50943 has 130 MA's), (Start: 73 @50931 has 1 MA's), (104, 50847), (111, 50829), (123, 50751), (133, 50679), (144, 50655), (157, 50583),

Gene: lbOuu_74 Start: 46622, Stop: 47065, Start Num: 68

Candidate Starts for lbOuu_74:

(Start: 68 @46622 has 130 MA's), (Start: 73 @46637 has 1 MA's), (123, 46817), (140, 46904), (143, 46910), (148, 46934), (167, 47036),

Gene: lbhubesi_77 Start: 46004, Stop: 46342, Start Num: 82

Candidate Starts for lbhubesi_77:

(Start: 82 @46004 has 7 MA's), (89, 46019), (98, 46046), (123, 46139), (130, 46181), (151, 46247),

Gene: IkeLoa_6 Start: 2612, Stop: 3052, Start Num: 68

Candidate Starts for IkeLoa_6:

(Start: 68 @2612 has 130 MA's), (Start: 73 @2624 has 1 MA's), (110, 2744), (123, 2834), (128, 2876), (156, 2972), (161, 2996),

Gene: Inyanga_56 Start: 40763, Stop: 40362, Start Num: 68

Candidate Starts for Inyanga_56:

(Start: 68 @40763 has 130 MA's), (Start: 73 @40751 has 1 MA's), (90, 40706), (104, 40667), (123, 40571),

Gene: Iqorha_56 Start: 40762, Stop: 40361, Start Num: 68

Candidate Starts for Iqorha_56:

(Start: 68 @40762 has 130 MA's), (Start: 73 @40750 has 1 MA's), (90, 40705), (104, 40666), (123, 40570),

Gene: Iridessa_53 Start: 47334, Stop: 46891, Start Num: 68

Candidate Starts for Iridessa_53:

(34, 47406), (43, 47385), (47, 47379), (Start: 68 @47334 has 130 MA's), (Start: 73 @47322 has 1 MA's), (110, 47202), (116, 47172), (123, 47112), (127, 47076), (129, 47070), (164, 46938),

Gene: Jant_84 Start: 48028, Stop: 48438, Start Num: 68

Candidate Starts for Jant_84:

(Start: 68 @48028 has 130 MA's), (Start: 73 @48040 has 1 MA's), (104, 48124), (111, 48142), (123, 48220),

Gene: Jasper_61 Start: 39951, Stop: 39571, Start Num: 96

Candidate Starts for Jasper_61:

(22, 40152), (74, 40008), (75, 40005), (Start: 96 @39951 has 35 MA's), (100, 39939), (123, 39783), (127, 39747), (129, 39741), (164, 39609),

Gene: JigglyPuff_6 Start: 1982, Stop: 2365, Start Num: 96

Candidate Starts for JigglyPuff_6:

(76, 1931), (Start: 96 @1982 has 35 MA's), (100, 1994), (123, 2150), (127, 2186), (129, 2192), (150, 2270), (164, 2324),

Gene: Jinglebell_93 Start: 50985, Stop: 51386, Start Num: 68

Candidate Starts for Jinglebell_93:

(18, 50862), (53, 50955), (57, 50964), (Start: 68 @50985 has 130 MA's), (123, 51153), (125, 51180), (130, 51198), (135, 51225), (154, 51294), (155, 51297), (162, 51333),

Gene: JuicyJay_72 Start: 52118, Stop: 51702, Start Num: 68

Candidate Starts for JuicyJay_72:

(Start: 68 @52118 has 130 MA's), (Start: 73 @52106 has 1 MA's), (104, 52022), (111, 52004), (123, 51926), (125, 51896), (135, 51857), (137, 51854),

Gene: Juniper1_77 Start: 47775, Stop: 48149, Start Num: 92

Candidate Starts for Juniper1_77:

(Start: 92 @47775 has 1 MA's), (100, 47799), (123, 47934), (127, 47970), (129, 47976), (164, 48108), (167, 48126),

Gene: Kahve_52 Start: 47351, Stop: 46908, Start Num: 68

Candidate Starts for Kahve_52:

(Start: 68 @47351 has 130 MA's), (Start: 73 @47339 has 1 MA's), (110, 47219), (116, 47189), (123, 47129), (127, 47093), (129, 47087), (164, 46955),

Gene: Kalah2_68 Start: 50277, Stop: 49861, Start Num: 68

Candidate Starts for Kalah2_68:

(Start: 68 @50277 has 130 MA's), (Start: 73 @50265 has 1 MA's), (104, 50181), (111, 50163), (123, 50085), (125, 50055), (135, 50016), (137, 50013),

Gene: KashFlow_71 Start: 46755, Stop: 46327, Start Num: 68

Candidate Starts for KashFlow_71:

(Start: 68 @46755 has 130 MA's), (Start: 73 @46740 has 1 MA's), (93, 46686), (116, 46593), (123, 46533), (167, 46356),

Gene: KashFlow_72 Start: 47258, Stop: 46752, Start Num: 68

Candidate Starts for KashFlow_72:

(Start: 68 @47258 has 130 MA's), (122, 47087), (123, 47072), (125, 47045), (130, 47027), (135, 47000), (154, 46931), (155, 46928), (162, 46892), (171, 46811), (172, 46805), (173, 46802),

Gene: Kersh_88 Start: 52115, Stop: 52522, Start Num: 78

Candidate Starts for Kersh_88:

(14, 51941), (16, 51950), (24, 51974), (Start: 68 @52085 has 130 MA's), (72, 52094), (Start: 78 @52115 has 9 MA's), (101, 52172), (108, 52211), (123, 52307), (127, 52343), (129, 52349), (164, 52481),

Gene: Khan1_53 Start: 47307, Stop: 46918, Start Num: 96

Candidate Starts for Khan1_53:

(Start: 96 @47307 has 35 MA's), (100, 47295), (123, 47139), (127, 47103), (129, 47097), (164, 46965),

Gene: Klein_78 Start: 51350, Stop: 50925, Start Num: 70

Candidate Starts for Klein_78:

(Start: 70 @51350 has 3 MA's), (Start: 73 @51338 has 1 MA's), (93, 51284), (116, 51191), (123, 51131), (167, 50954),

Gene: Koguma_6 Start: 1766, Stop: 2206, Start Num: 68

Candidate Starts for Koguma_6:

(Start: 68 @1766 has 130 MA's), (Start: 73 @1778 has 1 MA's), (110, 1898), (123, 1988), (128, 2030), (156, 2126), (161, 2150),

Gene: Kostya_43 Start: 35472, Stop: 35038, Start Num: 68

Candidate Starts for Kostya_43:

(31, 35544), (Start: 68 @35472 has 130 MA's), (Start: 73 @35460 has 1 MA's), (116, 35310), (123, 35250),

Gene: KristaRAM_77 Start: 47329, Stop: 47721, Start Num: 68

Candidate Starts for KristaRAM_77:

(Start: 68 @47329 has 130 MA's), (Start: 73 @47344 has 1 MA's), (123, 47479), (140, 47566), (143, 47572), (148, 47596), (160, 47659), (167, 47698),

Gene: Kronus_50 Start: 46191, Stop: 45748, Start Num: 68

Candidate Starts for Kronus_50:

(Start: 68 @46191 has 130 MA's), (Start: 73 @46179 has 1 MA's), (110, 46059), (116, 46029), (123, 45969), (127, 45933), (129, 45927), (164, 45795),

Gene: LRRHood_6 Start: 2751, Stop: 3191, Start Num: 68

Candidate Starts for LRRHood_6:

(Start: 68 @2751 has 130 MA's), (Start: 73 @2763 has 1 MA's), (110, 2883), (123, 2973), (128, 3015), (156, 3111), (161, 3135),

Gene: Latretium_78 Start: 47174, Stop: 47560, Start Num: 96

Candidate Starts for Latretium_78:

(Start: 96 @47174 has 35 MA's), (100, 47186), (123, 47342), (127, 47378), (129, 47384), (164, 47516),

Gene: Legolas_54 Start: 47787, Stop: 47344, Start Num: 68

Candidate Starts for Legolas_54:

(34, 47859), (43, 47838), (47, 47832), (Start: 68 @47787 has 130 MA's), (Start: 73 @47775 has 1 MA's), (110, 47655), (116, 47625), (123, 47565), (127, 47529), (129, 47523), (164, 47391),

Gene: LeiMonet_54 Start: 47306, Stop: 46959, Start Num: 96

Candidate Starts for LeiMonet_54:

(Start: 96 @47306 has 35 MA's), (100, 47294), (123, 47174), (127, 47138), (129, 47132), (164, 47000), (167, 46982),

Gene: Lethe_6 Start: 1613, Stop: 2053, Start Num: 68

Candidate Starts for Lethe_6:

(Start: 68 @1613 has 130 MA's), (Start: 73 @1625 has 1 MA's), (110, 1745), (123, 1835), (128, 1877), (156, 1973), (161, 1997),

Gene: Liveloughbron_46 Start: 36111, Stop: 35677, Start Num: 68

Candidate Starts for Liveloughbron_46:

(31, 36183), (Start: 68 @36111 has 130 MA's), (Start: 73 @36099 has 1 MA's), (116, 35949), (123, 35889),

Gene: Llama_93 Start: 50841, Stop: 51242, Start Num: 68

Candidate Starts for Llama_93:

(18, 50718), (53, 50811), (57, 50820), (Start: 68 @50841 has 130 MA's), (123, 51009), (125, 51036), (130, 51054), (135, 51081), (154, 51150), (155, 51153), (162, 51189),

Gene: Llij_73 Start: 45475, Stop: 45903, Start Num: 68

Candidate Starts for Llij_73:

(Start: 68 @45475 has 130 MA's), (Start: 73 @45490 has 1 MA's), (93, 45544), (116, 45637), (123, 45697), (167, 45874),

Gene: Longacauda_53 Start: 47750, Stop: 47307, Start Num: 68

Candidate Starts for Longacauda_53:

(34, 47822), (43, 47801), (47, 47795), (Start: 68 @47750 has 130 MA's), (Start: 73 @47738 has 1 MA's), (110, 47618), (116, 47588), (123, 47528), (127, 47492), (129, 47486), (164, 47354),

Gene: Lorde_77 Start: 44762, Stop: 45190, Start Num: 68

Candidate Starts for Lorde_77:

(Start: 68 @44762 has 130 MA's), (Start: 73 @44777 has 1 MA's), (93, 44831), (116, 44924), (123, 44984), (167, 45161),

Gene: Lucia_76 Start: 45610, Stop: 46038, Start Num: 68

Candidate Starts for Lucia_76:

(Start: 68 @45610 has 130 MA's), (Start: 73 @45625 has 1 MA's), (93, 45679), (116, 45772), (123, 45832), (167, 46009),

Gene: Lucky2013_71 Start: 46711, Stop: 46307, Start Num: 73

Candidate Starts for Lucky2013_71:

(Start: 68 @46723 has 130 MA's), (Start: 73 @46711 has 1 MA's), (104, 46627), (111, 46609), (123, 46531), (125, 46501), (135, 46462), (137, 46459),

Gene: Lukilu_6 Start: 2765, Stop: 3205, Start Num: 68

Candidate Starts for Lukilu_6:

(Start: 68 @2765 has 130 MA's), (Start: 73 @2777 has 1 MA's), (110, 2897), (123, 2987), (128, 3029), (156, 3125), (161, 3149),

Gene: Lumine_53 Start: 47538, Stop: 47155, Start Num: 96

Candidate Starts for Lumine_53:

(Start: 96 @47538 has 35 MA's), (100, 47526), (123, 47370), (127, 47334), (129, 47328), (164, 47196),

Gene: MISSy_42 Start: 35034, Stop: 34591, Start Num: 68

Candidate Starts for MISSy_42:

(34, 35106), (Start: 68 @35034 has 130 MA's), (Start: 73 @35022 has 1 MA's), (116, 34872), (123, 34812), (127, 34776), (129, 34770), (164, 34638),

Gene: MPhalcon_42 Start: 35027, Stop: 34584, Start Num: 68

Candidate Starts for MPhalcon_42:

(34, 35099), (Start: 68 @35027 has 130 MA's), (Start: 73 @35015 has 1 MA's), (116, 34865), (123, 34805), (127, 34769), (129, 34763), (164, 34631),

Gene: MadKillah_102 Start: 61818, Stop: 61405, Start Num: 78

Candidate Starts for MadKillah_102:

(Start: 26 @61950 has 1 MA's), (48, 61890), (58, 61869), (Start: 78 @61818 has 9 MA's), (101, 61761), (108, 61722), (123, 61626), (127, 61590), (129, 61584), (164, 61452),

Gene: Makemake_63 Start: 42339, Stop: 41959, Start Num: 96

Candidate Starts for Makemake_63:

(22, 42540), (74, 42396), (75, 42393), (Start: 96 @42339 has 35 MA's), (100, 42327), (123, 42171), (127, 42135), (129, 42129), (164, 41997),

Gene: Manda_46 Start: 36625, Stop: 36245, Start Num: 87

Candidate Starts for Manda_46:

(77, 36646), (80, 36634), (Start: 87 @36625 has 1 MA's), (Start: 97 @36613 has 1 MA's), (123, 36493), (140, 36406), (143, 36400), (160, 36313), (167, 36274),

Gene: Marleymoo_67 Start: 49139, Stop: 48684, Start Num: 67

Candidate Starts for Marleymoo_67:

(67, 49139), (117, 48977), (119, 48974), (123, 48917), (125, 48890), (130, 48872), (135, 48845), (154, 48776), (155, 48773), (162, 48737),

Gene: Marlia_51 Start: 45592, Stop: 45149, Start Num: 68

Candidate Starts for Marlia_51:

(Start: 68 @45592 has 130 MA's), (Start: 73 @45580 has 1 MA's), (110, 45460), (116, 45430), (123, 45370), (127, 45334), (129, 45328), (164, 45196),

Gene: Marsha_82 Start: 50494, Stop: 50108, Start Num: 85

Candidate Starts for Marsha_82:

(Start: 85 @50494 has 14 MA's), (91, 50482), (123, 50326), (127, 50290), (129, 50284), (164, 50152),

Gene: Maru_52 Start: 47257, Stop: 46910, Start Num: 96

Candidate Starts for Maru_52:

(Start: 96 @47257 has 35 MA's), (100, 47245), (123, 47125), (127, 47089), (129, 47083), (164, 46951), (167, 46933),

Gene: Marvin_10 Start: 3597, Stop: 3977, Start Num: 96

Candidate Starts for Marvin_10:

(58, 3501), (69, 3525), (Start: 96 @3597 has 35 MA's), (100, 3609), (123, 3765), (127, 3801), (129, 3807), (164, 3939),

Gene: Medindi_83 Start: 49245, Stop: 49694, Start Num: 37

Candidate Starts for Medindi_83:

(37, 49245), (44, 49257), (114, 49407), (123, 49464), (143, 49560), (158, 49626), (163, 49650), (167, 49671),

Gene: MiaZeal_74 Start: 47379, Stop: 46963, Start Num: 68

Candidate Starts for MiaZeal_74:

(Start: 68 @47379 has 130 MA's), (Start: 73 @47367 has 1 MA's), (104, 47283), (111, 47265), (123, 47187), (125, 47157), (135, 47118), (137, 47115),

Gene: Misfit_44 Start: 36046, Stop: 35612, Start Num: 68

Candidate Starts for Misfit_44:

(31, 36118), (Start: 68 @36046 has 130 MA's), (Start: 73 @36034 has 1 MA's), (116, 35884), (123, 35824),

Gene: MmasiCarm_51 Start: 45638, Stop: 45195, Start Num: 68

Candidate Starts for MmasiCarm_51:

(Start: 68 @45638 has 130 MA's), (Start: 73 @45626 has 1 MA's), (110, 45506), (116, 45476), (123, 45416), (127, 45380), (129, 45374), (164, 45242),

Gene: Moby_10 Start: 2543, Stop: 2995, Start Num: 36

Candidate Starts for Moby_10:

(36, 2543), (44, 2558), (114, 2708), (123, 2765), (134, 2849), (138, 2855), (139, 2858), (159, 2942),

Gene: Modragons_91 Start: 50829, Stop: 51230, Start Num: 68

Candidate Starts for Modragons_91:

(18, 50706), (53, 50799), (57, 50808), (Start: 68 @50829 has 130 MA's), (123, 50997), (125, 51024), (130, 51042), (135, 51069), (154, 51138), (155, 51141), (162, 51177),

Gene: Moiqah_10 Start: 2543, Stop: 2995, Start Num: 36

Candidate Starts for Moiqah_10:

(36, 2543), (44, 2558), (114, 2708), (123, 2765), (134, 2849), (138, 2855), (139, 2858), (159, 2942),

Gene: Moonbeam_87 Start: 50558, Stop: 50971, Start Num: 78

Candidate Starts for Moonbeam_87:

(27, 50435), (Start: 68 @50528 has 130 MA's), (72, 50537), (Start: 78 @50558 has 9 MA's), (101, 50615), (108, 50654), (123, 50750), (127, 50786), (129, 50792), (164, 50924),

Gene: Mopey_86 Start: 59779, Stop: 60174, Start Num: 85

Candidate Starts for Mopey_86:

(Start: 29 @59656 has 1 MA's), (Start: 85 @59779 has 14 MA's), (106, 59854), (121, 59926), (123, 59959), (127, 59995), (129, 60001), (164, 60133), (167, 60151),

Gene: Mortcellus_50 Start: 46245, Stop: 45802, Start Num: 68

Candidate Starts for Mortcellus_50:

(Start: 68 @46245 has 130 MA's), (Start: 73 @46233 has 1 MA's), (110, 46113), (116, 46083), (123, 46023), (127, 45987), (129, 45981), (164, 45849),

Gene: Mova_78 Start: 47116, Stop: 47487, Start Num: 66

Candidate Starts for Mova_78:

(Start: 66 @47116 has 1 MA's), (Start: 73 @47131 has 1 MA's), (123, 47251), (125, 47278), (130, 47296), (135, 47323), (154, 47392), (155, 47395), (162, 47431),

Gene: MrPhizzler_54 Start: 47284, Stop: 46895, Start Num: 96

Candidate Starts for MrPhizzler_54:

(Start: 96 @47284 has 35 MA's), (100, 47272), (123, 47116), (127, 47080), (129, 47074), (164, 46942),

Gene: Mulaychimus_51 Start: 45574, Stop: 45131, Start Num: 68

Candidate Starts for Mulaychimus_51:

(Start: 68 @45574 has 130 MA's), (Start: 73 @45562 has 1 MA's), (110, 45442), (116, 45412), (123, 45352), (127, 45316), (129, 45310), (164, 45178),

Gene: MulchExplorer_78 Start: 47402, Stop: 47863, Start Num: 56

Candidate Starts for MulchExplorer_78:

(55, 47399), (Start: 56 @47402 has 1 MA's), (Start: 78 @47459 has 9 MA's), (79, 47462), (86, 47474), (123, 47648), (127, 47684), (129, 47690), (164, 47822),

Gene: Murica_44 Start: 35981, Stop: 35547, Start Num: 68

Candidate Starts for Murica_44:

(31, 36053), (Start: 68 @35981 has 130 MA's), (Start: 73 @35969 has 1 MA's), (116, 35819), (123, 35759),

Gene: NEHalo_58 Start: 40784, Stop: 40425, Start Num: 96

Candidate Starts for NEHalo_58:

(22, 40985), (74, 40841), (75, 40838), (Start: 96 @40784 has 35 MA's), (100, 40772), (123, 40637), (127, 40601), (129, 40595), (164, 40463),

Gene: Nala_43 Start: 35539, Stop: 35096, Start Num: 68

Candidate Starts for Nala_43:

(34, 35611), (Start: 68 @35539 has 130 MA's), (Start: 73 @35527 has 1 MA's), (116, 35377), (123, 35317), (127, 35281), (129, 35275), (164, 35143),

Gene: Nibley_68 Start: 46367, Stop: 45957, Start Num: 61

Candidate Starts for Nibley_68:

(61, 46367), (Start: 68 @46355 has 130 MA's), (123, 46175), (127, 46139), (129, 46133), (164, 46001),

Gene: Nichirin_86 Start: 50184, Stop: 50606, Start Num: 57

Candidate Starts for Nichirin_86:

(18, 50082), (53, 50175), (57, 50184), (Start: 68 @50205 has 130 MA's), (123, 50373), (125, 50400), (130, 50418), (135, 50445), (154, 50514), (155, 50517), (162, 50553),

Gene: Nicole21_53 Start: 47623, Stop: 47051, Start Num: 68

Candidate Starts for Nicole21_53:

(34, 47695), (43, 47674), (47, 47668), (Start: 68 @47623 has 130 MA's), (Start: 73 @47611 has 1 MA's), (110, 47491), (116, 47461), (123, 47401), (127, 47365), (129, 47359), (164, 47227), (170, 47185),

Gene: NihilNomen_74 Start: 51071, Stop: 50655, Start Num: 68

Candidate Starts for NihilNomen_74:

(Start: 68 @51071 has 130 MA's), (Start: 73 @51059 has 1 MA's), (104, 50975), (111, 50957), (123, 50879), (125, 50849), (135, 50810), (137, 50807),

Gene: Nimrod_45 Start: 36239, Stop: 35805, Start Num: 68

Candidate Starts for Nimrod_45:

(31, 36311), (Start: 68 @36239 has 130 MA's), (Start: 73 @36227 has 1 MA's), (116, 36077), (123, 36017),

Gene: Nitzel_73 Start: 45555, Stop: 45947, Start Num: 68

Candidate Starts for Nitzel_73:

(Start: 68 @45555 has 130 MA's), (Start: 73 @45570 has 1 MA's), (123, 45705), (140, 45792), (143, 45798), (148, 45822), (160, 45885), (167, 45924),

Gene: Obutu_51 Start: 45593, Stop: 45150, Start Num: 68

Candidate Starts for Obutu_51:

(Start: 68 @45593 has 130 MA's), (Start: 73 @45581 has 1 MA's), (110, 45461), (116, 45431), (123, 45371), (127, 45335), (129, 45329), (164, 45197),

Gene: Ochi17_92 Start: 50436, Stop: 50837, Start Num: 68

Candidate Starts for Ochi17_92:

(18, 50313), (53, 50406), (57, 50415), (Start: 68 @50436 has 130 MA's), (123, 50604), (125, 50631), (130, 50649), (135, 50676), (154, 50745), (155, 50748), (162, 50784),

Gene: Odette_72 Start: 50114, Stop: 49698, Start Num: 68

Candidate Starts for Odette_72:

(Start: 68 @50114 has 130 MA's), (Start: 73 @50102 has 1 MA's), (104, 50018), (111, 50000), (123, 49922), (125, 49892), (135, 49853), (137, 49850),

Gene: OfUltron_94 Start: 50985, Stop: 51386, Start Num: 68

Candidate Starts for OfUltron_94:

(18, 50862), (53, 50955), (57, 50964), (Start: 68 @50985 has 130 MA's), (123, 51153), (125, 51180), (130, 51198), (135, 51225), (154, 51294), (155, 51297), (162, 51333),

Gene: Ohno789_61 Start: 41528, Stop: 41148, Start Num: 96

Candidate Starts for Ohno789_61:

(22, 41729), (74, 41585), (75, 41582), (Start: 96 @41528 has 35 MA's), (100, 41516), (123, 41360), (127, 41324), (129, 41318), (164, 41186),

Gene: Oksu_89 Start: 51566, Stop: 51967, Start Num: 68

Candidate Starts for Oksu_89:

(8, 51392), (10, 51401), (13, 51425), (53, 51536), (57, 51545), (Start: 68 @51566 has 130 MA's), (123, 51734), (125, 51761), (130, 51779), (135, 51806), (154, 51875), (155, 51878), (162, 51914),

Gene: Orwigg_52 Start: 47308, Stop: 46766, Start Num: 68

Candidate Starts for Orwigg_52:

(34, 47380), (43, 47359), (47, 47353), (Start: 68 @47308 has 130 MA's), (Start: 73 @47296 has 1 MA's), (110, 47176), (116, 47146), (123, 47086), (127, 47050), (129, 47044), (164, 46912),

Gene: Ovechkin_85 Start: 49845, Stop: 50309, Start Num: 52

Candidate Starts for Ovechkin_85:

(Start: 52 @49845 has 1 MA's), (Start: 68 @49878 has 130 MA's), (114, 50022), (123, 50094), (133, 50157),

Gene: PLOT_85 Start: 59930, Stop: 60325, Start Num: 85

Candidate Starts for PLOT_85:

(Start: 29 @59807 has 1 MA's), (Start: 85 @59930 has 14 MA's), (106, 60005), (121, 60077), (123, 60110), (127, 60146), (129, 60152), (164, 60284), (167, 60302),

Gene: PMC_74 Start: 46932, Stop: 47360, Start Num: 68

Candidate Starts for PMC_74:

(Start: 68 @46932 has 130 MA's), (Start: 73 @46947 has 1 MA's), (93, 47001), (116, 47094), (123, 47154), (167, 47331),

Gene: Palpatine_45 Start: 36011, Stop: 35577, Start Num: 68

Candidate Starts for Palpatine_45:

(31, 36083), (Start: 68 @36011 has 130 MA's), (Start: 73 @35999 has 1 MA's), (116, 35849), (123, 35789),

Gene: Penelope2018_84 Start: 59705, Stop: 60100, Start Num: 85

Candidate Starts for Penelope2018_84:

(Start: 29 @59582 has 1 MA's), (Start: 85 @59705 has 14 MA's), (106, 59780), (121, 59852), (123, 59885), (127, 59921), (129, 59927), (164, 60059), (167, 60077),

Gene: Petra64142_47 Start: 36475, Stop: 36041, Start Num: 68

Candidate Starts for Petra64142_47:

(31, 36547), (Start: 68 @36475 has 130 MA's), (Start: 73 @36463 has 1 MA's), (116, 36313), (123, 36253),

Gene: PhatBacter_45 Start: 36025, Stop: 35591, Start Num: 68

Candidate Starts for PhatBacter_45:

(31, 36097), (Start: 68 @36025 has 130 MA's), (Start: 73 @36013 has 1 MA's), (116, 35863), (123, 35803),

Gene: Phatniss_74 Start: 46570, Stop: 46998, Start Num: 68

Candidate Starts for Phatniss_74:

(Start: 68 @46570 has 130 MA's), (Start: 73 @46585 has 1 MA's), (93, 46639), (116, 46732), (123, 46792), (167, 46969),

Gene: Phaux_44 Start: 36023, Stop: 35589, Start Num: 68

Candidate Starts for Phaux_44:

(31, 36095), (Start: 68 @36023 has 130 MA's), (Start: 73 @36011 has 1 MA's), (116, 35861), (123, 35801),

Gene: Phayeta_52 Start: 45475, Stop: 45032, Start Num: 68

Candidate Starts for Phayeta_52:

(Start: 68 @45475 has 130 MA's), (Start: 73 @45463 has 1 MA's), (110, 45343), (116, 45313), (123, 45253), (127, 45217), (129, 45211), (164, 45079),

Gene: PherrisBueller_60 Start: 39602, Stop: 39222, Start Num: 96

Candidate Starts for PherrisBueller_60:

(22, 39803), (74, 39659), (75, 39656), (Start: 96 @39602 has 35 MA's), (100, 39590), (123, 39434), (127, 39398), (129, 39392), (164, 39260),

Gene: Phoebus_76 Start: 52253, Stop: 51837, Start Num: 68

Candidate Starts for Phoebus_76:

(Start: 68 @52253 has 130 MA's), (Start: 73 @52241 has 1 MA's), (104, 52157), (111, 52139), (123, 52061), (125, 52031), (135, 51992), (137, 51989),

Gene: Phox_6 Start: 2748, Stop: 3188, Start Num: 68

Candidate Starts for Phox_6:

(Start: 68 @2748 has 130 MA's), (Start: 73 @2760 has 1 MA's), (110, 2880), (123, 2970), (128, 3012), (156, 3108), (161, 3132),

Gene: Policronamos_45 Start: 36023, Stop: 35589, Start Num: 68

Candidate Starts for Policronamos_45:

(31, 36095), (Start: 68 @36023 has 130 MA's), (Start: 73 @36011 has 1 MA's), (116, 35861), (123, 35801),

Gene: Pollywog_86 Start: 51074, Stop: 51427, Start Num: 96

Candidate Starts for Pollywog_86:

(22, 50873), (74, 51017), (75, 51020), (Start: 96 @51074 has 35 MA's), (100, 51086), (123, 51206), (127, 51242), (129, 51248), (164, 51380),

Gene: Porcelain_73 Start: 47379, Stop: 46963, Start Num: 68

Candidate Starts for Porcelain_73:

(Start: 68 @47379 has 130 MA's), (Start: 73 @47367 has 1 MA's), (104, 47283), (111, 47265), (123, 47187), (125, 47157), (135, 47118), (137, 47115),

Gene: PowerRanger_59 Start: 41974, Stop: 41528, Start Num: 68

Candidate Starts for PowerRanger_59:

(38, 42031), (40, 42028), (Start: 68 @41974 has 130 MA's), (90, 41917), (104, 41878), (111, 41860), (123, 41782), (133, 41710), (144, 41686), (157, 41614), (169, 41551),

Gene: Prager_84 Start: 59610, Stop: 60005, Start Num: 85

Candidate Starts for Prager_84:

(Start: 29 @59487 has 1 MA's), (Start: 85 @59610 has 14 MA's), (106, 59685), (121, 59757), (123, 59790), (127, 59826), (129, 59832), (164, 59964), (167, 59982),

Gene: Quallification_43 Start: 35661, Stop: 35215, Start Num: 68

Candidate Starts for Quallification_43:

(31, 35733), (Start: 68 @35661 has 130 MA's), (Start: 73 @35649 has 1 MA's), (116, 35499), (123, 35439), (125, 35409), (134, 35370), (136, 35367),

Gene: RedRaider77_10 Start: 3149, Stop: 3538, Start Num: 96

Candidate Starts for RedRaider77_10:

(Start: 96 @3149 has 35 MA's), (100, 3161), (123, 3317), (127, 3353), (129, 3359), (164, 3491),

Gene: Redno2_70 Start: 47867, Stop: 47451, Start Num: 68

Candidate Starts for Redno2_70:

(Start: 68 @47867 has 130 MA's), (Start: 73 @47855 has 1 MA's), (104, 47771), (111, 47753), (123, 47675), (125, 47645), (135, 47606), (137, 47603),

Gene: Renaud18_72 Start: 42500, Stop: 42886, Start Num: 68

Candidate Starts for Renaud18_72:

(Start: 68 @42500 has 130 MA's), (Start: 73 @42512 has 1 MA's), (81, 42539), (103, 42584), (123, 42647), (125, 42674), (130, 42692), (135, 42719), (162, 42827),

Gene: Rialto_90 Start: 50654, Stop: 51067, Start Num: 78

Candidate Starts for Rialto_90:

(27, 50531), (Start: 68 @50624 has 130 MA's), (72, 50633), (Start: 78 @50654 has 9 MA's), (101, 50711), (108, 50750), (123, 50846), (127, 50882), (129, 50888), (164, 51020),

Gene: Rimmer_43 Start: 35365, Stop: 34928, Start Num: 68

Candidate Starts for Rimmer_43:

(34, 35437), (Start: 68 @35365 has 130 MA's), (Start: 73 @35353 has 1 MA's), (116, 35203), (123, 35143), (127, 35107), (129, 35101), (164, 34969),

Gene: Rimu_53 Start: 47304, Stop: 46915, Start Num: 96

Candidate Starts for Rimu_53:

(Start: 96 @47304 has 35 MA's), (100, 47292), (123, 47136), (127, 47100), (129, 47094), (164, 46962),

Gene: Rita_85 Start: 50514, Stop: 50948, Start Num: 62

Candidate Starts for Rita_85:

(7, 50340), (9, 50355), (11, 50364), (15, 50394), (Start: 62 @50514 has 1 MA's), (Start: 73 @50538 has 1 MA's), (123, 50718), (143, 50814), (158, 50880), (163, 50904), (167, 50925),

Gene: Rita1961_51 Start: 45594, Stop: 45151, Start Num: 68

Candidate Starts for Rita1961_51:

(Start: 68 @45594 has 130 MA's), (Start: 73 @45582 has 1 MA's), (110, 45462), (116, 45432), (123, 45372), (127, 45336), (129, 45330), (164, 45198),

Gene: Rockne_78 Start: 46944, Stop: 47372, Start Num: 68

Candidate Starts for Rockne_78:

(Start: 68 @46944 has 130 MA's), (Start: 73 @46959 has 1 MA's), (93, 47013), (116, 47106), (123, 47166), (167, 47343),

Gene: Ronan_6 Start: 1749, Stop: 2189, Start Num: 68

Candidate Starts for Ronan_6:

(Start: 68 @1749 has 130 MA's), (Start: 73 @1761 has 1 MA's), (110, 1881), (123, 1971), (128, 2013), (156, 2109), (161, 2133),

Gene: Sabbb_88 Start: 48209, Stop: 48622, Start Num: 78

Candidate Starts for Sabbb_88:

(14, 48035), (16, 48044), (24, 48068), (27, 48086), (Start: 68 @48179 has 130 MA's), (72, 48188), (Start: 78 @48209 has 9 MA's), (101, 48266), (108, 48305), (123, 48401), (127, 48437), (129, 48443), (164, 48575),

Gene: Saints25_43 Start: 34897, Stop: 34421, Start Num: 68

Candidate Starts for Saints25_43:

(31, 34969), (Start: 68 @34897 has 130 MA's), (Start: 73 @34885 has 1 MA's), (116, 34735), (123, 34675), (132, 34603), (144, 34579), (156, 34507), (168, 34444),

Gene: Sandaddy_57 Start: 40445, Stop: 40086, Start Num: 96

Candidate Starts for Sandaddy_57:

(22, 40646), (74, 40502), (75, 40499), (Start: 96 @40445 has 35 MA's), (100, 40433), (123, 40298), (127, 40262), (129, 40256), (164, 40124),

Gene: Sarma624_77 Start: 44943, Stop: 45320, Start Num: 82

Candidate Starts for Sarma624_77:

(Start: 82 @44943 has 7 MA's), (89, 44958), (123, 45114), (130, 45156), (151, 45222), (152, 45225), (167, 45294),

Gene: Schatzie_68 Start: 49861, Stop: 49445, Start Num: 68

Candidate Starts for Schatzie_68:

(Start: 68 @49861 has 130 MA's), (Start: 73 @49849 has 1 MA's), (104, 49765), (111, 49747), (123, 49669), (125, 49639), (135, 49600), (137, 49597),

Gene: ScoobyDoobyDoo_2 Start: 227, Stop: 613, Start Num: 96

Candidate Starts for ScoobyDoobyDoo_2:

(Start: 96 @227 has 35 MA's), (100, 239), (123, 395), (127, 431), (129, 437), (150, 515), (164, 569),

Gene: Scowl_62 Start: 40833, Stop: 40453, Start Num: 96

Candidate Starts for Scowl_62:

(74, 40890), (75, 40887), (Start: 96 @40833 has 35 MA's), (100, 40821), (123, 40665), (127, 40629), (129, 40623), (164, 40491),

Gene: Seabastian_94 Start: 50986, Stop: 51387, Start Num: 68

Candidate Starts for Seabastian_94:

(18, 50863), (53, 50956), (57, 50965), (Start: 68 @50986 has 130 MA's), (123, 51154), (125, 51181), (130, 51199), (135, 51226), (154, 51295), (155, 51298), (162, 51334),

Gene: Seanderson_63 Start: 42839, Stop: 42384, Start Num: 68

Candidate Starts for Seanderson_63:

(6, 43040), (40, 42896), (42, 42893), (Start: 68 @42839 has 130 MA's), (117, 42677), (119, 42674), (123, 42617), (125, 42590), (130, 42572), (135, 42545), (154, 42476), (155, 42473), (162, 42437),

Gene: Shaboozey_74 Start: 47299, Stop: 46889, Start Num: 61

Candidate Starts for Shaboozey_74:

(61, 47299), (Start: 68 @47287 has 130 MA's), (123, 47107), (127, 47071), (129, 47065), (164, 46933),

Gene: Shaqnato_6 Start: 1766, Stop: 2206, Start Num: 68

Candidate Starts for Shaqnato_6:

(Start: 68 @1766 has 130 MA's), (Start: 73 @1778 has 1 MA's), (110, 1898), (123, 1988), (128, 2030), (156, 2126), (161, 2150),

Gene: SirDuracell_42 Start: 34192, Stop: 33677, Start Num: 28

Candidate Starts for SirDuracell_42:

(Start: 28 @34192 has 1 MA's), (64, 34120), (71, 34108), (116, 33952), (123, 33892), (166, 33721), (168, 33700),

Gene: Slim_89 Start: 49993, Stop: 50406, Start Num: 78

Candidate Starts for Slim_89:

(14, 49819), (16, 49828), (24, 49852), (27, 49870), (Start: 68 @49963 has 130 MA's), (72, 49972), (Start: 78 @49993 has 9 MA's), (101, 50050), (108, 50089), (123, 50185), (127, 50221), (129, 50227), (164, 50359),

Gene: SlippinJimmy_52 Start: 46376, Stop: 45933, Start Num: 68

Candidate Starts for SlippinJimmy_52:

(Start: 68 @46376 has 130 MA's), (Start: 73 @46364 has 1 MA's), (110, 46244), (116, 46214), (123, 46154), (127, 46118), (129, 46112), (164, 45980),

Gene: Soile_53 Start: 47351, Stop: 46908, Start Num: 68

Candidate Starts for Soile_53:

(Start: 68 @47351 has 130 MA's), (Start: 73 @47339 has 1 MA's), (110, 47219), (116, 47189), (123, 47129), (127, 47093), (129, 47087), (164, 46955),

Gene: Sorpresa_58 Start: 40447, Stop: 40088, Start Num: 96

Candidate Starts for Sorpresa_58:

(22, 40648), (74, 40504), (75, 40501), (Start: 96 @40447 has 35 MA's), (100, 40435), (123, 40300), (127, 40264), (129, 40258), (164, 40126),

Gene: SpikeBT_59 Start: 40641, Stop: 40282, Start Num: 96

Candidate Starts for SpikeBT_59:

(22, 40842), (74, 40698), (75, 40695), (Start: 96 @40641 has 35 MA's), (100, 40629), (123, 40494), (127, 40458), (129, 40452), (164, 40320),

Gene: Sprinklers_6 Start: 1749, Stop: 2189, Start Num: 68

Candidate Starts for Sprinklers_6:

(Start: 68 @1749 has 130 MA's), (Start: 73 @1761 has 1 MA's), (110, 1881), (123, 1971), (128, 2013), (156, 2109), (161, 2133),

Gene: Squint_74 Start: 47498, Stop: 47082, Start Num: 68

Candidate Starts for Squint_74:

(Start: 68 @47498 has 130 MA's), (Start: 73 @47486 has 1 MA's), (104, 47402), (111, 47384), (123, 47306), (125, 47276), (135, 47237), (137, 47234),

Gene: StormChicken_44 Start: 35973, Stop: 35536, Start Num: 68

Candidate Starts for StormChicken_44:

(34, 36045), (Start: 68 @35973 has 130 MA's), (Start: 73 @35961 has 1 MA's), (116, 35811), (123, 35751), (127, 35715), (129, 35709), (164, 35577),

Gene: StrongArm_59 Start: 41777, Stop: 41397, Start Num: 96

Candidate Starts for StrongArm_59:

(74, 41834), (75, 41831), (Start: 96 @41777 has 35 MA's), (100, 41765), (123, 41609), (127, 41573), (129, 41567), (164, 41435),

Gene: Sunshine924_66 Start: 41648, Stop: 41211, Start Num: 68

Candidate Starts for Sunshine924_66:

(4, 41849), (39, 41705), (41, 41702), (Start: 68 @41648 has 130 MA's), (Start: 73 @41636 has 1 MA's), (116, 41486), (123, 41426), (166, 41255),

Gene: SuperheroCarly_83 Start: 59679, Stop: 60074, Start Num: 85

Candidate Starts for SuperheroCarly_83:

(32, 59580), (35, 59586), (40, 59598), (Start: 85 @59679 has 14 MA's), (106, 59754), (121, 59826), (123, 59859), (127, 59895), (129, 59901), (164, 60033), (167, 60051),

Gene: Superphikiman_71 Start: 46589, Stop: 46173, Start Num: 68

Candidate Starts for Superphikiman_71:

(Start: 68 @46589 has 130 MA's), (Start: 73 @46577 has 1 MA's), (104, 46493), (111, 46475), (123, 46397), (125, 46367), (135, 46328), (137, 46325),

Gene: SwainyDoc_51 Start: 45606, Stop: 45163, Start Num: 68

Candidate Starts for SwainyDoc_51:

(Start: 68 @45606 has 130 MA's), (Start: 73 @45594 has 1 MA's), (110, 45474), (116, 45444), (123, 45384), (127, 45348), (129, 45342), (164, 45210),

Gene: TDanisky_93 Start: 48927, Stop: 49307, Start Num: 78

Candidate Starts for TDanisky_93:

(Start: 78 @48927 has 9 MA's), (123, 49092), (127, 49128), (129, 49134), (164, 49266),

Gene: Tchotchke_73 Start: 46858, Stop: 47286, Start Num: 68

Candidate Starts for Tchotchke_73:

(Start: 68 @46858 has 130 MA's), (Start: 73 @46873 has 1 MA's), (93, 46927), (116, 47020), (123, 47080), (167, 47257),

Gene: TeamEdward_44 Start: 35970, Stop: 35533, Start Num: 68

Candidate Starts for TeamEdward_44:

(34, 36042), (Start: 68 @35970 has 130 MA's), (Start: 73 @35958 has 1 MA's), (116, 35808), (123, 35748), (127, 35712), (129, 35706), (164, 35574),

Gene: Terminus_44 Start: 36046, Stop: 35612, Start Num: 68

Candidate Starts for Terminus_44:

(31, 36118), (Start: 68 @36046 has 130 MA's), (Start: 73 @36034 has 1 MA's), (116, 35884), (123, 35824),

Gene: TheloniousMonk_64 Start: 43165, Stop: 42755, Start Num: 68

Candidate Starts for TheloniousMonk_64:

(38, 43222), (40, 43219), (Start: 68 @43165 has 130 MA's), (90, 43108), (104, 43069), (123, 42973),

Gene: Thibault_74 Start: 51276, Stop: 51677, Start Num: 68

Candidate Starts for Thibault_74:

(19, 51156), (21, 51159), (33, 51207), (38, 51222), (Start: 68 @51276 has 130 MA's), (123, 51444), (125, 51471), (130, 51489), (135, 51516), (154, 51585), (155, 51588), (162, 51624),

Gene: Thibault_65 Start: 47312, Stop: 46869, Start Num: 68

Candidate Starts for Thibault_65:

(Start: 68 @47312 has 130 MA's), (116, 47150), (118, 47147), (123, 47090), (127, 47054), (129, 47048), (164, 46916),

Gene: Thoth_84 Start: 59759, Stop: 60154, Start Num: 85

Candidate Starts for Thoth_84:

(Start: 29 @59636 has 1 MA's), (Start: 85 @59759 has 14 MA's), (106, 59834), (121, 59906), (123, 59939), (127, 59975), (129, 59981), (164, 60113), (167, 60131),

Gene: TinyTerror_51 Start: 45641, Stop: 45198, Start Num: 68

Candidate Starts for TinyTerror_51:

(Start: 68 @45641 has 130 MA's), (Start: 73 @45629 has 1 MA's), (110, 45509), (116, 45479), (123, 45419), (127, 45383), (129, 45377), (164, 45245),

Gene: Tonenili_20 Start: 6077, Stop: 6418, Start Num: 97

Candidate Starts for Tonenili_20:

(Start: 97 @6077 has 1 MA's), (98, 6080), (102, 6092), (105, 6119), (109, 6128), (115, 6170), (120, 6194), (123, 6236), (141, 6287), (153, 6329),

Gene: Topiatin_85 Start: 49548, Stop: 49946, Start Num: 84

Candidate Starts for Topiatin_85:

(Start: 84 @49548 has 2 MA's), (123, 49734),

Gene: UncleRicky_76 Start: 46818, Stop: 47246, Start Num: 68

Candidate Starts for UncleRicky_76:

(Start: 68 @46818 has 130 MA's), (Start: 73 @46833 has 1 MA's), (93, 46887), (116, 46980), (123, 47040), (167, 47217),

Gene: VasuNzinga_9 Start: 2804, Stop: 3184, Start Num: 96

Candidate Starts for VasuNzinga_9:

(Start: 96 @2804 has 35 MA's), (100, 2816), (123, 2972), (127, 3008), (129, 3014), (164, 3146),

Gene: Velveteen_73 Start: 44943, Stop: 45320, Start Num: 82

Candidate Starts for Velveteen_73:

(Start: 82 @44943 has 7 MA's), (89, 44958), (123, 45114), (130, 45156), (151, 45222), (152, 45225), (167, 45294),

Gene: Visconti_85 Start: 59720, Stop: 60115, Start Num: 85

Candidate Starts for Visconti_85:

(Start: 29 @59597 has 1 MA's), (Start: 85 @59720 has 14 MA's), (106, 59795), (121, 59867), (123, 59900), (127, 59936), (129, 59942), (164, 60074), (167, 60092),

Gene: WaldoWhy_85 Start: 59683, Stop: 60078, Start Num: 85

Candidate Starts for WaldoWhy_85:

(Start: 29 @59560 has 1 MA's), (Start: 85 @59683 has 14 MA's), (106, 59758), (121, 59830), (123, 59863), (127, 59899), (129, 59905), (164, 60037), (167, 60055),

Gene: Wanda_82 Start: 51659, Stop: 51234, Start Num: 70

Candidate Starts for Wanda_82:

(Start: 70 @51659 has 3 MA's), (Start: 73 @51647 has 1 MA's), (93, 51593), (116, 51500), (123, 51440), (167, 51263),

Gene: Whatsapiecost_73 Start: 43853, Stop: 44332, Start Num: 68

Candidate Starts for Whatsapiecost_73:

(Start: 68 @43853 has 130 MA's), (Start: 73 @43868 has 1 MA's), (116, 44018), (118, 44021), (123, 44078), (132, 44150), (144, 44174), (156, 44246), (168, 44309),

Gene: Xiaokay_68 Start: 48228, Stop: 47791, Start Num: 68

Candidate Starts for Xiaokay_68:

(Start: 68 @48228 has 130 MA's), (116, 48066), (118, 48063), (123, 48006), (127, 47970), (129, 47964), (164, 47832),

Gene: Yassified_6 Start: 1770, Stop: 2210, Start Num: 68

Candidate Starts for Yassified_6:

(Start: 68 @1770 has 130 MA's), (Start: 73 @1782 has 1 MA's), (110, 1902), (123, 1992), (128, 2034), (156, 2130), (161, 2154),

Gene: Youngblood_44 Start: 35976, Stop: 35539, Start Num: 68

Candidate Starts for Youngblood_44:

(34, 36048), (Start: 68 @35976 has 130 MA's), (Start: 73 @35964 has 1 MA's), (116, 35814), (123, 35754), (127, 35718), (129, 35712), (164, 35580),

Gene: Zelink_71 Start: 51457, Stop: 51044, Start Num: 68

Candidate Starts for Zelink_71:

(Start: 68 @51457 has 130 MA's), (Start: 73 @51445 has 1 MA's), (104, 51361), (111, 51343), (123, 51265), (125, 51235), (135, 51196), (137, 51193),

Gene: xkcd_46 Start: 36166, Stop: 35732, Start Num: 68

Candidate Starts for xkcd_46:

(31, 36238), (Start: 68 @36166 has 130 MA's), (Start: 73 @36154 has 1 MA's), (116, 36004), (123, 35944),