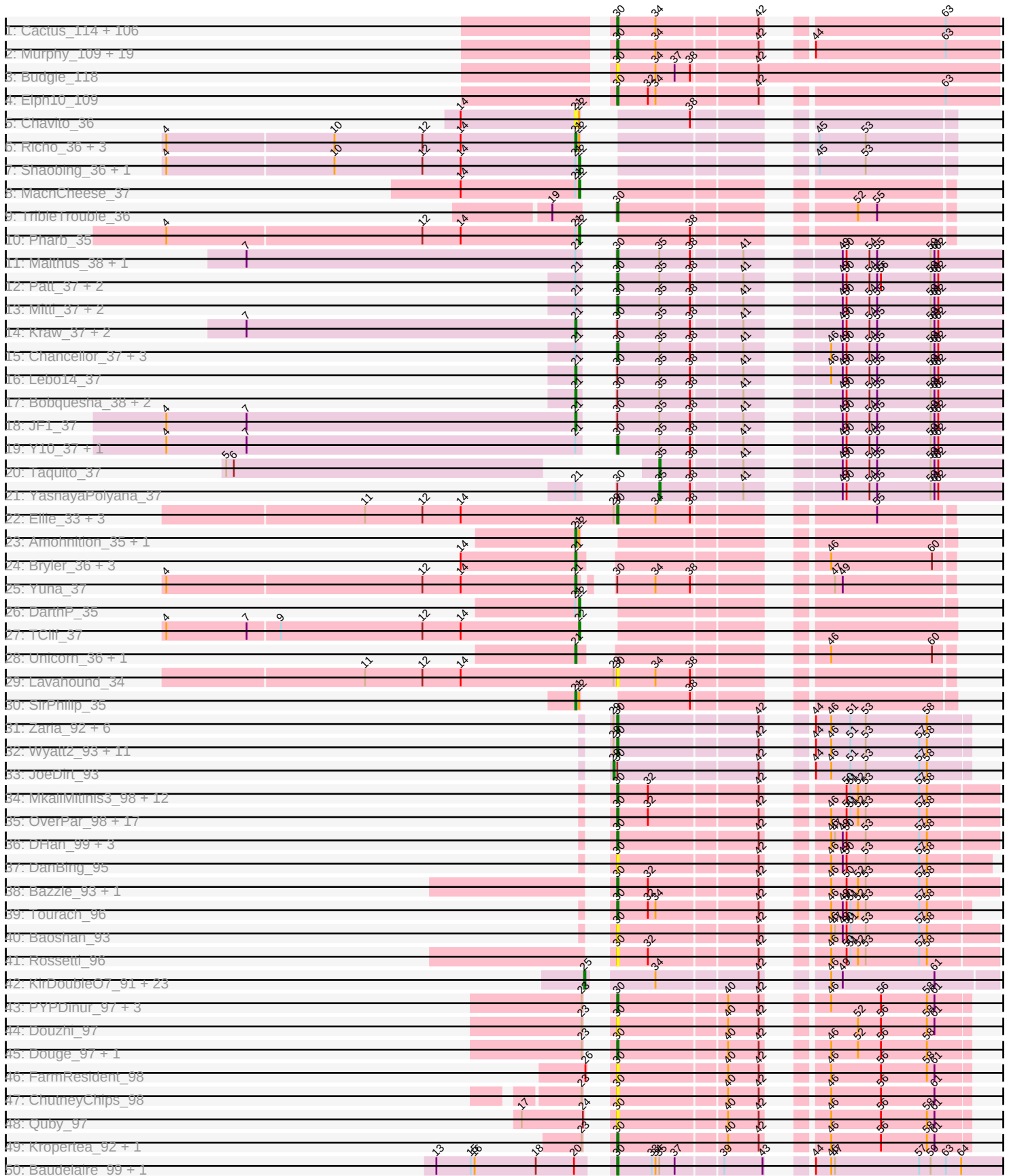
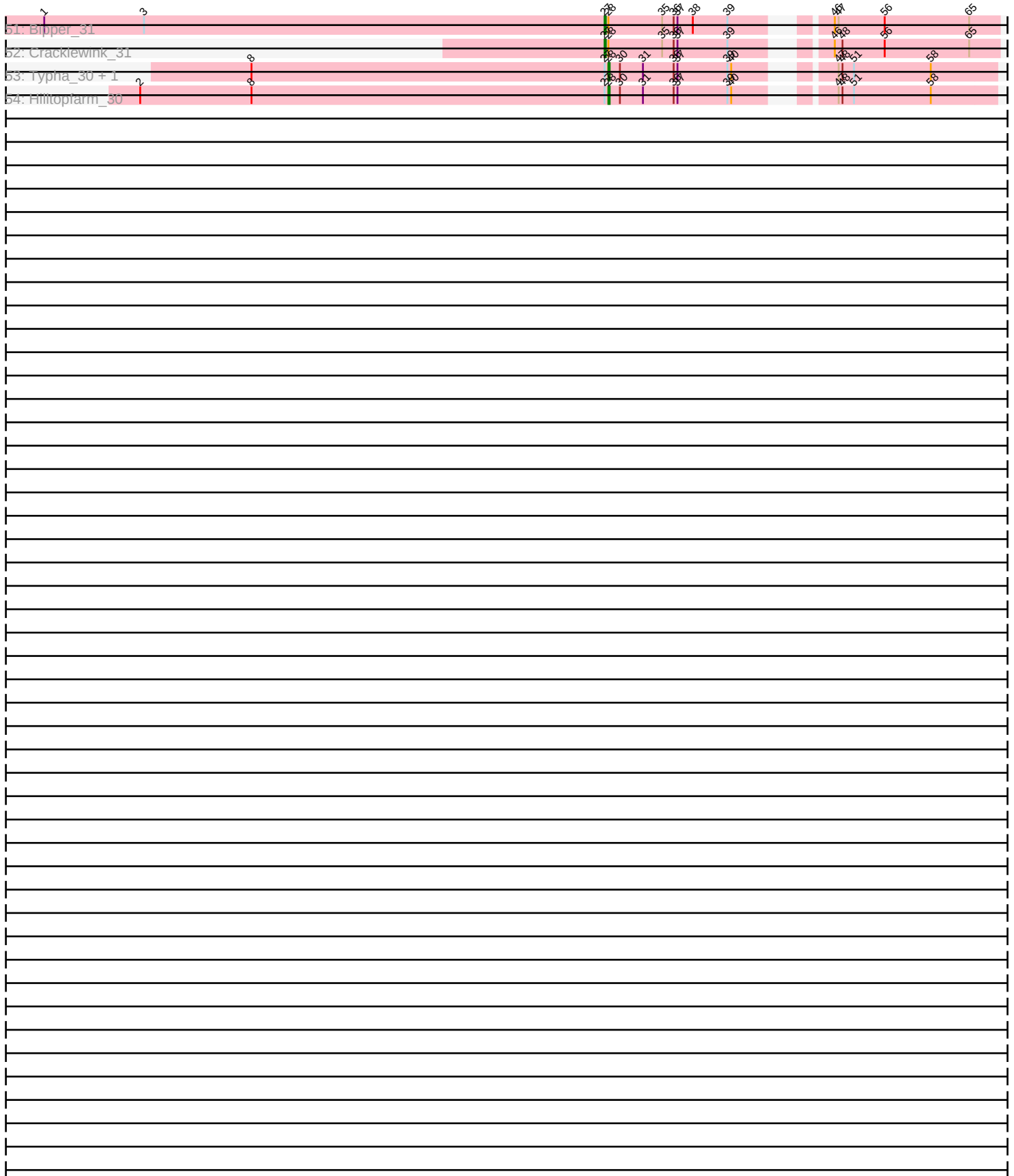




Pham 280039



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 280039 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280039 has 284 members, 38 are drafts.

Phages represented in each track:

- Track 1 : Cactus_114, Gage_112, Glexan_109, Lilizi_110, JeTaime_108, Lilipickle_109, Hopey_110, Nimrod_110, Paperbeatsrock_109, Misfit_111, Stark_110, DrDrey_110, Kimchi_114, PhatBacter_113, RiverMonster_109, Balomoji_110, NonchalantPear_108, Adnama_114, Contagion_107, Murica_114, Pat3_107, Cjw1_110, Inca_107, BilboSwaggins_108, Teaspoon_110, Cookies_107, SirDuracell_110, Mosby_107, Tarkin_109, Bask21_110, Elite2014_109, Buck_111, xkcd_114, Kostya_110, Harella_111, NelitzaMV_107, ChosenOne_110, Maxxinista_112, StolenFromERC_112, Daikon_111, Mindy_109, Pumpkin_111, ShamWow_110, ChotaBhai_110, Ukulele_104, Barbarian_109, Thresher_111, Gator_108, CrystalP_110, Qualification_111, Stank_112, TeardropMSU_106, Traaww1_106, ABCat_107, Flypotenuse_106, Lilac_111, Wiggin_112, AmericanBeauty_113, YassJohnny_107, Sotrice96_111, DoctorDiddles_109, Hoonter_113, Youngblood_114, Gemini_115, FireRed_113, Icee_111, Phaja_108, Holt_115, Dusk_107, BadStone_107, Policronamos_113, Bogg_111, Asriel_108, MPhalcon_111, Filch_112, Tuco_111, Rimmer_108, Argent26_114, StellaBean_108, Miniwave_105, Terminus_113, Pharsalus_107, Goldilocks_113, Thimble_112, Czystczon1_110, BugsBunny_109, Dumbo_110, Willez_105, GooberAzure_113, Myrale_110, Bench_112, TBrady12_113, BigBubba_111, HuffyPuff_112, FoghornLeghorn_103, Palpatine_111, Xandras_109, NoSleep_110, Rakim_111, Toto_108, Tomaszewski_105, Nala_112, Phrux_106, Kanye_107, Bruin_107, ShereKhan_108, IHOP_108
- Track 2 : Murphy_109, Emmina_110, Henry_108, HanKaySha_110, Manda_111, BaboJay_109, Moldemort_112, Marshmallow_108, Easy2Say_110, Saints25_106, 244_111, SophKB_108, Highbury_106, Goku_109, MadamMonkfish_109, Eureka_110, OrionPax_108, Porky_108, Simpliphy_108, Phaux_112
- Track 3 : Budgie_118
- Track 4 : Elph10_109
- Track 5 : Chavito_36
- Track 6 : Richo_36, Peanam_36, Dartin_36, McMater_36
- Track 7 : Shaobing_36, Niklas_36
- Track 8 : MacnCheese_37
- Track 9 : TribleTrouble_36
- Track 10 : Pharb_35
- Track 11 : Malthus_38, Fionnbharth_37
- Track 12 : Patt_37, MissDaisy_37, Reptar3000_37
- Track 13 : Mitti_37, Wintermute_37, Eponine_39
- Track 14 : Kraw_37, Juliette_39, Ruthiejr_38

- Track 15 : Chancellor_37, DanSyl44_40, Slarp_37, Cheetobro_37
- Track 16 : Lebo14_37
- Track 17 : Bobquesha_38, SamScheppers_37, OmniCritical_37
- Track 18 : JF1_37
- Track 19 : Y10_37, Y2_37
- Track 20 : Taquito_37
- Track 21 : YasnayaPolyana_37
- Track 22 : Ellie_33, Amgine_34, Applecrisp_34, Fefferhead_35
- Track 23 : Amohnition_35, Hammy_35
- Track 24 : Bryler_36, Phrank_36, Tierra_36, Cain_36
- Track 25 : Yuna_37
- Track 26 : DarthP_35
- Track 27 : TClif_37
- Track 28 : Unicorn_36, PhelpsODU_36
- Track 29 : Lavahound_34
- Track 30 : SirPhilip_35
- Track 31 : Zaria_92, Silverleaf_91, AvadaKedavra_92, Tyson_93, Acquire49_92, Calm_93, LeBron_91
- Track 32 : Wyatt2_93, Appletree2_91, Rose5_93, Halena_89, DirkDirk_89, Poochiewood_90, Enceladus_89, CicholasNage_89, MAckerman_90, UPIE_91, OhShagHennessey_88, Wamburggrxpress_91
- Track 33 : JoeDirt_93
- Track 34 : MkaliMitinis3_98, DrSeegs_95, Breezona_96, Faith1_96, Miley16_96, Lewan_97, Itos_96, Wigglewiggle_96, Gabriela_96, Sarshaun_97, Soap141_96, Netyap_95, Winky_96
- Track 35 : OverPar_98, Lynnae_97, LilDestine_94, Crossroads_96, Loadrie_95, BobsGarage_95, BigCheese_96, Gardann_96, GuuelaD_93, Kahlid_95, Zakai_97, Nicholasp3_96, Vetrix_94, Wilder_97, Rumpelstiltskin_92, Underpass_88, Finemlucis_97, SoJulia_98
- Track 36 : DHan_99, Hafay_97, ZhongYanYuan_93, Claus_95
- Track 37 : DanBing_95
- Track 38 : Bazzle_93, Archie_93
- Track 39 : Tourach_96
- Track 40 : Baoshan_93
- Track 41 : Rossetti_96
- Track 42 : KirDoubleO7_91, BourbonZero_94, Kingsolomon_91, Jubie_92, Krypton555_95, Ellson_92, Snenia_92, Lumos_93, DuncansLeg_93, MiniMac_97, Moostard_90, Lolly9_92, Finnry_93, Nicholas_91, Jobypre_93, MiniLon_97, LiyuLake_92, MsGreen_93, Bellis_93, Clautastrophe_91, Red305_94, TriFive_94, Samty_92, Whirlwind_94
- Track 43 : PYPDinur_97, BrainDrainer_98, Bromden_97, Chaser_96
- Track 44 : Douzhi_97
- Track 45 : Douge_97, Sheng711_98
- Track 46 : FarmResident_98
- Track 47 : ChutneyChips_98
- Track 48 : Quby_97
- Track 49 : Kropertea_92, DyoEdafos_99
- Track 50 : Baudelaire_99, Aegeus_99
- Track 51 : Bipper_31
- Track 52 : Cracklewink_31
- Track 53 : Typha_30, Faiyaz_30
- Track 54 : Hilltopfarm_30

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

The start number called the most often in the published annotations is 30, it was called in 195 of the 246 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_111, ABCat_107, Acquire49_92, Adnama_114, Aegeus_99, AmericanBeauty_113, Amgine_34, Applecrisp_34, Appletree2_91, Archie_93, Argent26_114, Asriel_108, AvadaKedavra_92, BaboJay_109, BadStone_107, Balomoji_110, Baoshan_93, Barbarian_109, Bask21_110, Baudelaire_99, Bazzle_93, Bench_112, BigBubba_111, BigCheese_96, BilboSwaggins_108, BobsGarage_95, Bogg_111, BrainDrainer_98, Breezona_96, Bromden_97, Bruin_107, Buck_111, Budgie_118, BugsBunny_109, Cactus_114, Calm_93, Chancellor_37, Chaser_96, Cheetobro_37, ChosenOne_110, ChotaBhai_110, ChutneyChips_98, CicholasNage_89, Cjw1_110, Claus_95, Contagion_107, Cookies_107, Crossroads_96, CrystalP_110, Czystczon1_110, DHan_99, Daikon_111, DanBing_95, DanSyl44_40, DirkDirk_89, DoctorDiddles_109, Douge_97, Douzhi_97, DrDrey_110, DrSeegs_95, Dumbo_110, Dusk_107, DyoEdafos_99, Easy2Say_110, Elite2014_109, Ellie_33, Elph10_109, Emmina_110, Enceladus_89, Eponine_39, Eureka_110, Faith1_96, FarmResident_98, Fefferhead_35, Filch_112, Finemlucis_97, Fionnbharth_37, FireRed_113, Flypotenuse_106, FoghornLeghorn_103, Gabriela_96, Gage_112, Gardann_96, Gator_108, Gemini_115, Glexan_109, Goku_109, Goldilocks_113, GooberAzure_113, GuuelaD_93, Hafay_97, Halena_89, HankaySha_110, Harella_111, Henry_108, Highbury_106, Holt_115, Hoonter_113, Hopey_110, HufflyPuff_112, IHOP_108, Icee_111, Inca_107, Itos_96, JeTaime_108, Kahlid_95, Kanye_107, Kimchi_114, Kostya_110, Kropertea_92, Lavahound_34, LeBron_91, Lewan_97, LilDestine_94, Lilac_111, Lilizi_110, Lilpickle_109, Loadrie_95, Lynnae_97, MAckerman_90, MPhalcon_111, MadamMonkfish_109, Malthus_38, Manda_111, Marshmallow_108, Maxxinista_112, Miley16_96, Mindy_109, Miniwave_105, Misfit_111, MissDaisy_37, Mitti_37, MkaliMitinis3_98, Moldemort_112, Mosby_107, Murica_114, Murphy_109, Myrale_110, Nala_112, NelitzaMV_107, Netyap_95, Nicholasp3_96, Nimrod_110, NoSleep_110, NonchalantPear_108, OhShagHennessy_88, OrionPax_108, OverPar_98, PYPDinur_97, Palpatine_111, Paperbeatsrock_109, Pat3_107, Patt_37, Phaja_108, Pharsalus_107, PhatBacter_113, Phaux_112, Phrux_106, Policronamos_113, Poochiewood_90, Porky_108, Pumpkin_111, Quallification_111, Quby_97, Rakim_111, Reptar3000_37, Rimmer_108, RiverMonster_109, Rose5_93, Rossetti_96, Rumpelstiltskin_92, Saints25_106, Sarshaun_97, ShamWow_110, Sheng711_98, ShereKhan_108, Silverleaf_91, Simpliphy_108, SirDuracell_110, Slarp_37, SoJulia_98, Soap141_96, SophKB_108, Sotrice96_111, Stank_112, Stark_110, StellaBean_108, StolenFromERC_112, TBrady12_113, Tarkin_109, TeardropMSU_106, Teaspoon_110, Terminus_113, Thimble_112, Thresher_111, Tomaszewski_105, Toto_108, Tourach_96, Traaww1_106, TribbleTrouble_36, Tuco_111, Tyson_93, UPIE_91, Ukulele_104, Underpass_88, Vetrix_94, Wamburgxpress_91, Wiggin_112, Wigglewiggle_96, Wilder_97, Willez_105, Winky_96, Wintermute_37, Wyatt2_93, Xandras_109, Y10_37, Y2_37, YassJohnny_107, Youngblood_114, Zakai_97, Zaria_92, ZhongYanYuan_93, xkcd_114,

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

- Bobquesha_38, Faiyaz_30, Hilltopfarm_30, JF1_37, JoeDirt_93, Juliette_39, Kraw_37, Lebo14_37, OmniCritical_37, Ruthiejr_38, SamScheppers_37, Typha_30, YasnayaPolyana_37, Yuna_37,

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

- Amohnition_35, Bellis_93, Bipper_31, BourbonZero_94, Bryler_36, Cain_36, Chavito_36, Clautastrophe_91, Cracklewink_31, DarthP_35, Dartin_36, DuncansLeg_93, Ellson_92, Finnry_93, Hammy_35, Jobypre_93, Jubie_92, Kingsolomon_91, KirDoubleO7_91, Krypton555_95, LiyuLake_92, Lolly9_92, Lumos_93, MacnCheese_37, McMater_36, MiniLon_97, MiniMac_97, Moostard_90, MsGreen_93, Nicholas_91, Niklas_36, Peanam_36, Pharb_35, PhelpsODU_36, Phrank_36, Red305_94, Richo_36, Samty_92, Shaobing_36, SirPhilip_35, Snenia_92, TClif_37, Taquito_37, Tierra_36, TriFive_94, Unicorn_36, Whirlwind_94,

Summary by start number:

Start 21:

- Found in 43 of 284 (15.1%) of genes in pham
- Manual Annotations of this start: 18 of 246
- Called 53.5% of time when present
- Phage (with cluster) where this start called: Amohnition_35 (K6), Bobquesha_38 (K4), Bryler_36 (K6), Cain_36 (K6), Chavito_36 (K1), Dartin_36 (K1), Hammy_35 (K6), JF1_37 (K4), Juliette_39 (K4), Kraw_37 (K4), Lebo14_37 (K4), McMater_36 (K1), OmniCritical_37 (K4), Peanam_36 (K1), PhelpsODU_36 (K6), Phrank_36 (K6), Richo_36 (K1), Ruthiejr_38 (K4), SamScheppers_37 (K4), SirPhilip_35 (K6), Tierra_36 (K6), Unicorn_36 (K6), Yuna_37 (K6),

Start 22:

- Found in 14 of 284 (4.9%) of genes in pham
- Manual Annotations of this start: 6 of 246
- Called 42.9% of time when present
- Phage (with cluster) where this start called: DarthP_35 (K6), MacnCheese_37 (K3), Niklas_36 (K1), Pharb_35 (K3), Shaobing_36 (K1), TClif_37 (K6),

Start 25:

- Found in 24 of 284 (8.5%) of genes in pham
- Manual Annotations of this start: 19 of 246
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellis_93 (L3), BourbonZero_94 (L3), Clautastrophe_91 (L3), DuncansLeg_93 (L3), Ellson_92 (L3), Finnry_93 (L3), Jobypre_93 (L3), Jubie_92 (L3), Kingsolomon_91 (L3), KirDoubleO7_91 (L3), Krypton555_95 (L3), LiyuLake_92 (L3), Lolly9_92 (L3), Lumos_93 (L3), MiniLon_97 (L3), MiniMac_97 (L3), Moostard_90 (L3), MsGreen_93 (L3), Nicholas_91 (L3), Red305_94 (L3), Samty_92 (L3), Snenia_92 (L3), TriFive_94 (L3), Whirlwind_94 (L3),

Start 27:

- Found in 5 of 284 (1.8%) of genes in pham
- Manual Annotations of this start: 2 of 246
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Bipper_31 (Y), Cracklewink_31 (Y),

Start 28:

- Found in 5 of 284 (1.8%) of genes in pham

- Manual Annotations of this start: 3 of 246
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Faiyaz_30 (Y), Hilltopfarm_30 (Y), Typha_30 (Y),

Start 29:

- Found in 25 of 284 (8.8%) of genes in pham
- Manual Annotations of this start: 1 of 246
- Called 4.0% of time when present
- Phage (with cluster) where this start called: JoeDirt_93 (L1),

Start 30:

- Found in 237 of 284 (83.5%) of genes in pham
- Manual Annotations of this start: 195 of 246
- Called 94.1% of time when present
- Phage (with cluster) where this start called: 244_111 (E), ABCat_107 (E), Acquire49_92 (L1), Adnama_114 (E), Aegeus_99 (L5), AmericanBeauty_113 (E), Amgine_34 (K6), Applecrisp_34 (K6), Appletree2_91 (L1), Archie_93 (L2), Argent26_114 (E), Asriel_108 (E), AvadaKedavra_92 (L1), BaboJay_109 (E), BadStone_107 (E), Balomoji_110 (E), Baoshan_93 (L2), Barbarian_109 (E), Bask21_110 (E), Baudelaire_99 (L5), Bazzle_93 (L2), Bench_112 (E), BigBubba_111 (E), BigCheese_96 (L2), BilboSwaggins_108 (E), BobsGarage_95 (L2), Bogg_111 (E), BrainDrainer_98 (L4), Breezona_96 (L2), Bromden_97 (L4), Bruin_107 (E), Buck_111 (E), Budgie_118 (E), BugsBunny_109 (E), Cactus_114 (E), Calm_93 (L1), Chancellor_37 (K4), Chaser_96 (L4), Cheetobro_37 (K4), ChosenOne_110 (E), ChotaBhai_110 (E), ChutneyChips_98 (L4), CicholasNage_89 (L1), Cjw1_110 (E), Claus_95 (L2), Contagion_107 (E), Cookies_107 (E), Crossroads_96 (L2), CrystalP_110 (E), Czyszczo1_110 (E), DHan_99 (L2), Daikon_111 (E), DanBing_95 (L2), DanSyl44_40 (K4), DirkDirk_89 (L1), DoctorDiddles_109 (E), Douge_97 (L4), Douzhi_97 (L4), DrDrey_110 (E), DrSeegs_95 (L2), Dumbo_110 (E), Dusk_107 (E), DyoEdafos_99 (L4), Easy2Say_110 (E), Elite2014_109 (E), Ellie_33 (K6), Elph10_109 (E), Emmina_110 (E), Enceladus_89 (L1), Eponine_39 (K4), Eureka_110 (E), Faith1_96 (L2), FarmResident_98 (L4), Fefferhead_35 (K6), Filch_112 (E), Finemlucis_97 (L2), Fionnbharth_37 (K4), FireRed_113 (E), Flypotenuse_106 (E), FoghornLeghorn_103 (E), Gabriela_96 (L2), Gage_112 (E), Gardann_96 (L2), Gator_108 (E), Gemini_115 (E), Glexan_109 (E), Goku_109 (E), Goldilocks_113 (E), GooberAzure_113 (E), GuuelaD_93 (L2), Hafay_97 (L2), Halena_89 (L1), HanKaySha_110 (E), Harella_111 (E), Henry_108 (E), Highbury_106 (E), Holt_115 (E), Hoonter_113 (E), Hopey_110 (E), HuffyPuff_112 (E), IHOP_108 (E), Icee_111 (E), Inca_107 (E), Itos_96 (L2), JeTaime_108 (E), Kahlid_95 (L2), Kanye_107 (E), Kimchi_114 (E), Kostya_110 (E), Kropertea_92 (L4), Lavahound_34 (K6), LeBron_91 (L1), Lewan_97 (L2), LilDestine_94 (L2), Lilac_111 (E), Lilizi_110 (E), Lilpickle_109 (E), Loadrie_95 (L2), Lynnae_97 (L2), MAckerman_90 (L1), MPhalcon_111 (E), MadamMonkfish_109 (E), Malthus_38 (K4), Manda_111 (E), Marshmallow_108 (E), Maxxinista_112 (E), Miley16_96 (L2), Mindy_109 (E), Miniwave_105 (E), Misfit_111 (E), MissDaisy_37 (K4), Mitti_37 (K4), MkaliMitinis3_98 (L2), Moldemort_112 (E), Mosby_107 (E), Murica_114 (E), Murphy_109 (E), Myrale_110 (E), Nala_112 (E), NelitzaMV_107 (E), Netyap_95 (L2), Nicholasp3_96 (L2), Nimrod_110 (E), NoSleep_110 (E), NonchalantPear_108 (E), OhShagHennessy_88 (L1), OrionPax_108 (E), OverPar_98 (L2), PYPDinur_97 (L4), Palpatine_111 (E), Paperbeatsrock_109 (E), Pat3_107 (E), Patt_37 (K4), Phaja_108 (E), Pharsalus_107 (E), PhatBacter_113 (E), Phaux_112 (E), Phrux_106 (E), Policronamos_113 (E), Poochiewood_90 (L1), Porky_108 (E), Pumpkin_111 (E), Quallification_111 (E),

Quby_97 (L4), Rakim_111 (E), Reptar3000_37 (K4), Rimmer_108 (E), RiverMonster_109 (E), Rose5_93 (L1), Rossetti_96 (L2), Rumpelstiltskin_92 (L2), Saints25_106 (E), Sarshaun_97 (L2), ShamWow_110 (E), Sheng711_98 (L4), ShereKhan_108 (E), Silverleaf_91 (L1), Simpliphy_108 (E), SirDuracell_110 (E), Slarp_37 (K4), SoJulia_98 (L2), Soap141_96 (L2), SophKB_108 (E), Sotrice96_111 (E), Stank_112 (E), Stark_110 (E), StellaBean_108 (E), StolenFromERC_112 (E), TBrady12_113 (E), Tarkin_109 (E), TeardropMSU_106 (E), Teaspoon_110 (E), Terminus_113 (E), Thimble_112 (E), Thresher_111 (E), Tomaszewski_105 (E), Toto_108 (E), Tourach_96 (L2), Traaww1_106 (E), TribbleTrouble_36 (K3), Tuco_111 (E), Tyson_93 (L1), UPIE_91 (L1), Ukulele_104 (E), Underpass_88 (L2), Vetrix_94 (L2), Wamburggrxpress_91 (L1), Wiggin_112 (E), Wigglewiggle_96 (L2), Wilder_97 (L2), Willez_105 (E), Winky_96 (L2), Wintermute_37 (K4), Wyatt2_93 (L1), Xandras_109 (E), Y10_37 (K4), Y2_37 (K4), YassJohnny_107 (E), Youngblood_114 (E), Zakai_97 (L2), Zaria_92 (L1), ZhongYanYuan_93 (L2), xkcd_114 (E),

Start 35:

- Found in 28 of 284 (9.9%) of genes in pham
- Manual Annotations of this start: 2 of 246
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Taquito_37 (K4), YasnayaPolyana_37 (K4),

Summary by clusters:

There are 11 clusters represented in this pham: E, L1, K1, K3, L4, L5, L2, K6, K4, Y, L3,

Info for manual annotations of cluster E:

- Start number 30 was manually annotated 123 times for cluster E.

Info for manual annotations of cluster K1:

- Start number 21 was manually annotated 1 time for cluster K1.
- Start number 22 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 22 was manually annotated 2 times for cluster K3.
- Start number 30 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K4:

- Start number 21 was manually annotated 7 times for cluster K4.
- Start number 30 was manually annotated 13 times for cluster K4.
- Start number 35 was manually annotated 2 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 21 was manually annotated 10 times for cluster K6.
- Start number 22 was manually annotated 2 times for cluster K6.
- Start number 30 was manually annotated 4 times for cluster K6.

Info for manual annotations of cluster L1:

- Start number 29 was manually annotated 1 time for cluster L1.
- Start number 30 was manually annotated 18 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 30 was manually annotated 30 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 25 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 30 was manually annotated 4 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 30 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster Y:

- Start number 27 was manually annotated 2 times for cluster Y.
- Start number 28 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: 244_111 Start: 62553, Stop: 62816, Start Num: 30

Candidate Starts for 244_111:

(Start: 30 @62553 has 195 MA's), (34, 62583), (42, 62658), (44, 62673), (63, 62775),

Gene: ABCat_107 Start: 63757, Stop: 64020, Start Num: 30

Candidate Starts for ABCat_107:

(Start: 30 @63757 has 195 MA's), (34, 63787), (42, 63862), (63, 63979),

Gene: Acquire49_92 Start: 57880, Stop: 58119, Start Num: 30

Candidate Starts for Acquire49_92:

(Start: 29 @57877 has 1 MA's), (Start: 30 @57880 has 195 MA's), (42, 57985), (44, 58000), (46, 58012), (51, 58027), (53, 58039), (58, 58087),

Gene: Adnama_114 Start: 63046, Stop: 63309, Start Num: 30

Candidate Starts for Adnama_114:

(Start: 30 @63046 has 195 MA's), (34, 63076), (42, 63151), (63, 63268),

Gene: Aegeus_99 Start: 60382, Stop: 60651, Start Num: 30

Candidate Starts for Aegeus_99:

(13, 60259), (15, 60286), (16, 60289), (18, 60337), (20, 60367), (Start: 30 @60382 has 195 MA's), (33, 60409), (34, 60412), (Start: 35 @60415 has 2 MA's), (37, 60427), (39, 60460), (43, 60490), (44, 60502), (46, 60514), (47, 60517), (57, 60583), (59, 60592), (63, 60604), (64, 60616),

Gene: AmericanBeauty_113 Start: 63088, Stop: 63351, Start Num: 30

Candidate Starts for AmericanBeauty_113:

(Start: 30 @63088 has 195 MA's), (34, 63118), (42, 63193), (63, 63310),

Gene: Amgine_34 Start: 29490, Stop: 29714, Start Num: 30

Candidate Starts for Amgine_34:

(11, 29292), (12, 29337), (14, 29367), (Start: 29 @29487 has 1 MA's), (Start: 30 @29490 has 195 MA's), (34, 29520), (38, 29547), (55, 29658),

Gene: Amohnition_35 Start: 29885, Stop: 30115, Start Num: 21

Candidate Starts for Amohnition_35:

(Start: 21 @29885 has 18 MA's), (Start: 22 @29888 has 6 MA's),

Gene: Applecrisp_34 Start: 29912, Stop: 30136, Start Num: 30

Candidate Starts for Applecrisp_34:

(11, 29714), (12, 29759), (14, 29789), (Start: 29 @29909 has 1 MA's), (Start: 30 @29912 has 195 MA's), (34, 29942), (38, 29969), (55, 30080),

Gene: Appletree2_91 Start: 57640, Stop: 57879, Start Num: 30

Candidate Starts for Appletree2_91:

(Start: 29 @57637 has 1 MA's), (Start: 30 @57640 has 195 MA's), (42, 57745), (44, 57760), (46, 57772), (51, 57787), (53, 57799), (57, 57841), (58, 57847),

Gene: Archie_93 Start: 59561, Stop: 59821, Start Num: 30

Candidate Starts for Archie_93:

(Start: 30 @59561 has 195 MA's), (32, 59585), (42, 59666), (46, 59693), (50, 59705), (52, 59714), (53, 59720), (57, 59762), (58, 59768),

Gene: Argent26_114 Start: 62970, Stop: 63233, Start Num: 30

Candidate Starts for Argent26_114:

(Start: 30 @62970 has 195 MA's), (34, 63000), (42, 63075), (63, 63192),

Gene: Asriel_108 Start: 61503, Stop: 61766, Start Num: 30

Candidate Starts for Asriel_108:

(Start: 30 @61503 has 195 MA's), (34, 61533), (42, 61608), (63, 61725),

Gene: AvadaKedavra_92 Start: 57992, Stop: 58231, Start Num: 30

Candidate Starts for AvadaKedavra_92:

(Start: 29 @57989 has 1 MA's), (Start: 30 @57992 has 195 MA's), (42, 58097), (44, 58112), (46, 58124), (51, 58139), (53, 58151), (58, 58199),

Gene: BaboJay_109 Start: 63726, Stop: 63989, Start Num: 30

Candidate Starts for BaboJay_109:

(Start: 30 @63726 has 195 MA's), (34, 63756), (42, 63831), (44, 63846), (63, 63948),

Gene: BadStone_107 Start: 63305, Stop: 63568, Start Num: 30

Candidate Starts for BadStone_107:

(Start: 30 @63305 has 195 MA's), (34, 63335), (42, 63410), (63, 63527),

Gene: Balomoji_110 Start: 63286, Stop: 63549, Start Num: 30

Candidate Starts for Balomoji_110:

(Start: 30 @63286 has 195 MA's), (34, 63316), (42, 63391), (63, 63508),

Gene: Baoshan_93 Start: 60216, Stop: 60476, Start Num: 30

Candidate Starts for Baoshan_93:

(Start: 30 @60216 has 195 MA's), (42, 60321), (46, 60348), (47, 60351), (49, 60357), (50, 60360), (51, 60363), (53, 60375), (57, 60417), (58, 60423),

Gene: Barbarian_109 Start: 61503, Stop: 61766, Start Num: 30

Candidate Starts for Barbarian_109:

(Start: 30 @61503 has 195 MA's), (34, 61533), (42, 61608), (63, 61725),

Gene: Bask21_110 Start: 62122, Stop: 62385, Start Num: 30

Candidate Starts for Bask21_110:

(Start: 30 @62122 has 195 MA's), (34, 62152), (42, 62227), (63, 62344),

Gene: Baudelaire_99 Start: 60382, Stop: 60651, Start Num: 30

Candidate Starts for Baudelaire_99:

(13, 60259), (15, 60286), (16, 60289), (18, 60337), (20, 60367), (Start: 30 @60382 has 195 MA's), (33, 60409), (34, 60412), (Start: 35 @60415 has 2 MA's), (37, 60427), (39, 60460), (43, 60490), (44, 60502), (46, 60514), (47, 60517), (57, 60583), (59, 60592), (63, 60604), (64, 60616),

Gene: Bazzle_93 Start: 60117, Stop: 60377, Start Num: 30

Candidate Starts for Bazzle_93:

(Start: 30 @60117 has 195 MA's), (32, 60141), (42, 60222), (46, 60249), (50, 60261), (52, 60270), (53, 60276), (57, 60318), (58, 60324),

Gene: Bellis_93 Start: 59734, Stop: 60003, Start Num: 25

Candidate Starts for Bellis_93:

(Start: 25 @59734 has 19 MA's), (34, 59773), (42, 59848), (46, 59875), (49, 59884), (61, 59956),

Gene: Bench_112 Start: 63727, Stop: 63990, Start Num: 30

Candidate Starts for Bench_112:

(Start: 30 @63727 has 195 MA's), (34, 63757), (42, 63832), (63, 63949),

Gene: BigBubba_111 Start: 62199, Stop: 62462, Start Num: 30

Candidate Starts for BigBubba_111:

(Start: 30 @62199 has 195 MA's), (34, 62229), (42, 62304), (63, 62421),

Gene: BigCheese_96 Start: 60326, Stop: 60586, Start Num: 30

Candidate Starts for BigCheese_96:

(Start: 30 @60326 has 195 MA's), (32, 60350), (42, 60431), (46, 60458), (50, 60470), (51, 60473), (52, 60479), (53, 60485), (57, 60527), (58, 60533),

Gene: BilboSwaggins_108 Start: 63783, Stop: 64046, Start Num: 30

Candidate Starts for BilboSwaggins_108:

(Start: 30 @63783 has 195 MA's), (34, 63813), (42, 63888), (63, 64005),

Gene: Bipper_31 Start: 28074, Stop: 28352, Start Num: 27

Candidate Starts for Bipper_31:

(1, 27636), (3, 27714), (Start: 27 @28074 has 2 MA's), (Start: 28 @28077 has 3 MA's), (Start: 35 @28119 has 2 MA's), (36, 28128), (37, 28131), (38, 28143), (39, 28170), (46, 28224), (47, 28227), (56, 28263), (65, 28329),

Gene: Bobquesha_38 Start: 30372, Stop: 30659, Start Num: 21

Candidate Starts for Bobquesha_38:

(Start: 21 @30372 has 18 MA's), (Start: 30 @30378 has 195 MA's), (Start: 35 @30411 has 2 MA's), (38, 30435), (41, 30471), (49, 30522), (50, 30525), (54, 30543), (55, 30549), (59, 30591), (61, 30594), (62, 30597),

Gene: BobsGarage_95 Start: 60326, Stop: 60586, Start Num: 30

Candidate Starts for BobsGarage_95:

(Start: 30 @60326 has 195 MA's), (32, 60350), (42, 60431), (46, 60458), (50, 60470), (51, 60473), (52, 60479), (53, 60485), (57, 60527), (58, 60533),

Gene: Bogg_111 Start: 63246, Stop: 63509, Start Num: 30

Candidate Starts for Bogg_111:

(Start: 30 @63246 has 195 MA's), (34, 63276), (42, 63351), (63, 63468),

Gene: BourbonZero_94 Start: 59760, Stop: 60029, Start Num: 25

Candidate Starts for BourbonZero_94:

(Start: 25 @59760 has 19 MA's), (34, 59799), (42, 59874), (46, 59901), (49, 59910), (61, 59982),

Gene: BrainDrainer_98 Start: 60036, Stop: 60275, Start Num: 30

Candidate Starts for BrainDrainer_98:

(23, 60030), (Start: 30 @60036 has 195 MA's), (40, 60117), (42, 60141), (46, 60168), (56, 60207), (58, 60243), (61, 60249),

Gene: Breezona_96 Start: 60332, Stop: 60592, Start Num: 30

Candidate Starts for Breezona_96:

(Start: 30 @60332 has 195 MA's), (32, 60356), (42, 60437), (50, 60476), (51, 60479), (52, 60485), (53, 60491), (57, 60533), (58, 60539),

Gene: Bromden_97 Start: 60914, Stop: 61153, Start Num: 30

Candidate Starts for Bromden_97:

(23, 60908), (Start: 30 @60914 has 195 MA's), (40, 60995), (42, 61019), (46, 61046), (56, 61085), (58, 61121), (61, 61127),

Gene: Bruin_107 Start: 62411, Stop: 62674, Start Num: 30

Candidate Starts for Bruin_107:

(Start: 30 @62411 has 195 MA's), (34, 62441), (42, 62516), (63, 62633),

Gene: Bryler_36 Start: 28890, Stop: 29123, Start Num: 21

Candidate Starts for Bryler_36:

(14, 28800), (Start: 21 @28890 has 18 MA's), (46, 29031), (60, 29109),

Gene: Buck_111 Start: 64227, Stop: 64490, Start Num: 30

Candidate Starts for Buck_111:

(Start: 30 @64227 has 195 MA's), (34, 64257), (42, 64332), (63, 64449),

Gene: Budgie_118 Start: 63676, Stop: 63969, Start Num: 30

Candidate Starts for Budgie_118:

(Start: 30 @63676 has 195 MA's), (34, 63706), (37, 63721), (38, 63733), (42, 63781),

Gene: BugsBunny_109 Start: 63725, Stop: 63988, Start Num: 30

Candidate Starts for BugsBunny_109:

(Start: 30 @63725 has 195 MA's), (34, 63755), (42, 63830), (63, 63947),

Gene: Cactus_114 Start: 62665, Stop: 62928, Start Num: 30

Candidate Starts for Cactus_114:

(Start: 30 @62665 has 195 MA's), (34, 62695), (42, 62770), (63, 62887),

Gene: Cain_36 Start: 28878, Stop: 29111, Start Num: 21

Candidate Starts for Cain_36:

(14, 28788), (Start: 21 @28878 has 18 MA's), (46, 29019), (60, 29097),

Gene: Calm_93 Start: 57891, Stop: 58130, Start Num: 30

Candidate Starts for Calm_93:

(Start: 29 @57888 has 1 MA's), (Start: 30 @57891 has 195 MA's), (42, 57996), (44, 58011), (46, 58023), (51, 58038), (53, 58050), (58, 58098),

Gene: Chancellor_37 Start: 30638, Stop: 30919, Start Num: 30

Candidate Starts for Chancellor_37:

(Start: 21 @30632 has 18 MA's), (Start: 30 @30638 has 195 MA's), (Start: 35 @30671 has 2 MA's), (38, 30695), (41, 30731), (46, 30773), (49, 30782), (50, 30785), (54, 30803), (55, 30809), (59, 30851), (61, 30854), (62, 30857),

Gene: Chaser_96 Start: 59337, Stop: 59576, Start Num: 30

Candidate Starts for Chaser_96:

(23, 59331), (Start: 30 @59337 has 195 MA's), (40, 59418), (42, 59442), (46, 59469), (56, 59508), (58, 59544), (61, 59550),

Gene: Chavito_36 Start: 29119, Stop: 29349, Start Num: 21

Candidate Starts for Chavito_36:

(14, 29029), (Start: 21 @29119 has 18 MA's), (Start: 22 @29122 has 6 MA's), (38, 29179),

Gene: Cheetobro_37 Start: 30635, Stop: 30916, Start Num: 30

Candidate Starts for Cheetobro_37:

(Start: 21 @30629 has 18 MA's), (Start: 30 @30635 has 195 MA's), (Start: 35 @30668 has 2 MA's), (38, 30692), (41, 30728), (46, 30770), (49, 30779), (50, 30782), (54, 30800), (55, 30806), (59, 30848), (61, 30851), (62, 30854),

Gene: ChosenOne_110 Start: 62611, Stop: 62874, Start Num: 30

Candidate Starts for ChosenOne_110:

(Start: 30 @62611 has 195 MA's), (34, 62641), (42, 62716), (63, 62833),

Gene: ChotaBhai_110 Start: 63064, Stop: 63327, Start Num: 30

Candidate Starts for ChotaBhai_110:

(Start: 30 @63064 has 195 MA's), (34, 63094), (42, 63169), (63, 63286),

Gene: ChutneyChips_98 Start: 60068, Stop: 60307, Start Num: 30

Candidate Starts for ChutneyChips_98:

(23, 60062), (Start: 30 @60068 has 195 MA's), (40, 60149), (42, 60173), (46, 60200), (56, 60239), (61, 60281),

Gene: CicholasNage_89 Start: 57544, Stop: 57783, Start Num: 30

Candidate Starts for CicholasNage_89:

(Start: 29 @57541 has 1 MA's), (Start: 30 @57544 has 195 MA's), (42, 57649), (44, 57664), (46, 57676), (51, 57691), (53, 57703), (57, 57745), (58, 57751),

Gene: Cjw1_110 Start: 64420, Stop: 64683, Start Num: 30

Candidate Starts for Cjw1_110:

(Start: 30 @64420 has 195 MA's), (34, 64450), (42, 64525), (63, 64642),

Gene: Claus_95 Start: 60040, Stop: 60279, Start Num: 30

Candidate Starts for Claus_95:

(Start: 30 @60040 has 195 MA's), (42, 60145), (46, 60172), (47, 60175), (49, 60181), (50, 60184), (53, 60199), (57, 60241), (58, 60247),

Gene: Clautastrophe_91 Start: 59729, Stop: 59998, Start Num: 25

Candidate Starts for Clautastrophe_91:

(Start: 25 @59729 has 19 MA's), (34, 59768), (42, 59843), (46, 59870), (49, 59879), (61, 59951),

Gene: Contagion_107 Start: 62773, Stop: 63036, Start Num: 30
Candidate Starts for Contagion_107:
(Start: 30 @62773 has 195 MA's), (34, 62803), (42, 62878), (63, 62995),

Gene: Cookies_107 Start: 63050, Stop: 63313, Start Num: 30
Candidate Starts for Cookies_107:
(Start: 30 @63050 has 195 MA's), (34, 63080), (42, 63155), (63, 63272),

Gene: Cracklewink_31 Start: 28074, Stop: 28352, Start Num: 27
Candidate Starts for Cracklewink_31:
(Start: 27 @28074 has 2 MA's), (Start: 28 @28077 has 3 MA's), (Start: 35 @28119 has 2 MA's), (36, 28128), (37, 28131), (39, 28170), (46, 28224), (48, 28230), (56, 28263), (65, 28329),

Gene: Crossroads_96 Start: 60044, Stop: 60304, Start Num: 30
Candidate Starts for Crossroads_96:
(Start: 30 @60044 has 195 MA's), (32, 60068), (42, 60149), (46, 60176), (50, 60188), (51, 60191), (52, 60197), (53, 60203), (57, 60245), (58, 60251),

Gene: CrystalP_110 Start: 63783, Stop: 64046, Start Num: 30
Candidate Starts for CrystalP_110:
(Start: 30 @63783 has 195 MA's), (34, 63813), (42, 63888), (63, 64005),

Gene: Czyszczone1_110 Start: 62766, Stop: 63029, Start Num: 30
Candidate Starts for Czyszczone1_110:
(Start: 30 @62766 has 195 MA's), (34, 62796), (42, 62871), (63, 62988),

Gene: DHan_99 Start: 60263, Stop: 60523, Start Num: 30
Candidate Starts for DHan_99:
(Start: 30 @60263 has 195 MA's), (42, 60368), (46, 60395), (47, 60398), (49, 60404), (50, 60407), (53, 60422), (57, 60464), (58, 60470),

Gene: Daikon_111 Start: 62582, Stop: 62845, Start Num: 30
Candidate Starts for Daikon_111:
(Start: 30 @62582 has 195 MA's), (34, 62612), (42, 62687), (63, 62804),

Gene: DanBing_95 Start: 59956, Stop: 60210, Start Num: 30
Candidate Starts for DanBing_95:
(Start: 30 @59956 has 195 MA's), (42, 60061), (46, 60088), (49, 60097), (50, 60100), (53, 60115), (57, 60157), (58, 60163),

Gene: DanSyl44_40 Start: 31504, Stop: 31785, Start Num: 30
Candidate Starts for DanSyl44_40:
(Start: 21 @31498 has 18 MA's), (Start: 30 @31504 has 195 MA's), (Start: 35 @31537 has 2 MA's), (38, 31561), (41, 31597), (46, 31639), (49, 31648), (50, 31651), (54, 31669), (55, 31675), (59, 31717), (61, 31720), (62, 31723),

Gene: DarthP_35 Start: 29810, Stop: 30037, Start Num: 22
Candidate Starts for DarthP_35:
(Start: 21 @29807 has 18 MA's), (Start: 22 @29810 has 6 MA's),

Gene: Dartin_36 Start: 28807, Stop: 29037, Start Num: 21
Candidate Starts for Dartin_36:

(4, 28489), (10, 28618), (12, 28687), (14, 28717), (Start: 21 @28807 has 18 MA's), (Start: 22 @28810 has 6 MA's), (45, 28933), (53, 28969),

Gene: DirkDirk_89 Start: 57220, Stop: 57459, Start Num: 30

Candidate Starts for DirkDirk_89:

(Start: 29 @57217 has 1 MA's), (Start: 30 @57220 has 195 MA's), (42, 57325), (44, 57340), (46, 57352), (51, 57367), (53, 57379), (57, 57421), (58, 57427),

Gene: DoctorDiddles_109 Start: 62552, Stop: 62815, Start Num: 30

Candidate Starts for DoctorDiddles_109:

(Start: 30 @62552 has 195 MA's), (34, 62582), (42, 62657), (63, 62774),

Gene: Douge_97 Start: 59456, Stop: 59695, Start Num: 30

Candidate Starts for Douge_97:

(23, 59450), (Start: 30 @59456 has 195 MA's), (40, 59537), (42, 59561), (46, 59588), (52, 59609), (56, 59627), (58, 59663),

Gene: Douzhi_97 Start: 59725, Stop: 59964, Start Num: 30

Candidate Starts for Douzhi_97:

(23, 59719), (Start: 30 @59725 has 195 MA's), (40, 59806), (42, 59830), (52, 59878), (56, 59896), (58, 59932), (61, 59938),

Gene: DrDrey_110 Start: 64443, Stop: 64706, Start Num: 30

Candidate Starts for DrDrey_110:

(Start: 30 @64443 has 195 MA's), (34, 64473), (42, 64548), (63, 64665),

Gene: DrSeegs_95 Start: 60332, Stop: 60592, Start Num: 30

Candidate Starts for DrSeegs_95:

(Start: 30 @60332 has 195 MA's), (32, 60356), (42, 60437), (50, 60476), (51, 60479), (52, 60485), (53, 60491), (57, 60533), (58, 60539),

Gene: Dumbo_110 Start: 62803, Stop: 63066, Start Num: 30

Candidate Starts for Dumbo_110:

(Start: 30 @62803 has 195 MA's), (34, 62833), (42, 62908), (63, 63025),

Gene: DuncansLeg_93 Start: 59748, Stop: 60017, Start Num: 25

Candidate Starts for DuncansLeg_93:

(Start: 25 @59748 has 19 MA's), (34, 59787), (42, 59862), (46, 59889), (49, 59898), (61, 59970),

Gene: Dusk_107 Start: 62965, Stop: 63228, Start Num: 30

Candidate Starts for Dusk_107:

(Start: 30 @62965 has 195 MA's), (34, 62995), (42, 63070), (63, 63187),

Gene: DyoEdafos_99 Start: 60045, Stop: 60284, Start Num: 30

Candidate Starts for DyoEdafos_99:

(23, 60039), (Start: 30 @60045 has 195 MA's), (40, 60126), (42, 60150), (46, 60177), (56, 60216), (58, 60252), (61, 60258),

Gene: Easy2Say_110 Start: 63437, Stop: 63700, Start Num: 30

Candidate Starts for Easy2Say_110:

(Start: 30 @63437 has 195 MA's), (34, 63467), (42, 63542), (44, 63557), (63, 63659),

Gene: Elite2014_109 Start: 62610, Stop: 62873, Start Num: 30

Candidate Starts for Elite2014_109:

(Start: 30 @62610 has 195 MA's), (34, 62640), (42, 62715), (63, 62832),

Gene: Ellie_33 Start: 29603, Stop: 29827, Start Num: 30

Candidate Starts for Ellie_33:

(11, 29405), (12, 29450), (14, 29480), (Start: 29 @29600 has 1 MA's), (Start: 30 @29603 has 195 MA's), (34, 29633), (38, 29660), (55, 29771),

Gene: Ellson_92 Start: 60063, Stop: 60332, Start Num: 25

Candidate Starts for Ellson_92:

(Start: 25 @60063 has 19 MA's), (34, 60102), (42, 60177), (46, 60204), (49, 60213), (61, 60285),

Gene: Elph10_109 Start: 62449, Stop: 62712, Start Num: 30

Candidate Starts for Elph10_109:

(Start: 30 @62449 has 195 MA's), (32, 62473), (34, 62479), (42, 62554), (63, 62671),

Gene: Emmina_110 Start: 62388, Stop: 62651, Start Num: 30

Candidate Starts for Emmina_110:

(Start: 30 @62388 has 195 MA's), (34, 62418), (42, 62493), (44, 62508), (63, 62610),

Gene: Enceladus_89 Start: 57921, Stop: 58160, Start Num: 30

Candidate Starts for Enceladus_89:

(Start: 29 @57918 has 1 MA's), (Start: 30 @57921 has 195 MA's), (42, 58026), (44, 58041), (46, 58053), (51, 58068), (53, 58080), (57, 58122), (58, 58128),

Gene: Eponine_39 Start: 31391, Stop: 31672, Start Num: 30

Candidate Starts for Eponine_39:

(Start: 21 @31385 has 18 MA's), (Start: 30 @31391 has 195 MA's), (Start: 35 @31424 has 2 MA's), (38, 31448), (41, 31484), (49, 31535), (50, 31538), (54, 31556), (55, 31562), (59, 31604), (61, 31607), (62, 31610),

Gene: Eureka_110 Start: 63576, Stop: 63839, Start Num: 30

Candidate Starts for Eureka_110:

(Start: 30 @63576 has 195 MA's), (34, 63606), (42, 63681), (44, 63696), (63, 63798),

Gene: Faith1_96 Start: 59969, Stop: 60229, Start Num: 30

Candidate Starts for Faith1_96:

(Start: 30 @59969 has 195 MA's), (32, 59993), (42, 60074), (50, 60113), (51, 60116), (52, 60122), (53, 60128), (57, 60170), (58, 60176),

Gene: Faiyaz_30 Start: 27510, Stop: 27782, Start Num: 28

Candidate Starts for Faiyaz_30:

(8, 27231), (Start: 27 @27507 has 2 MA's), (Start: 28 @27510 has 3 MA's), (Start: 30 @27519 has 195 MA's), (31, 27537), (36, 27561), (37, 27564), (39, 27603), (40, 27606), (47, 27660), (48, 27663), (51, 27672), (58, 27732),

Gene: FarmResident_98 Start: 59612, Stop: 59851, Start Num: 30

Candidate Starts for FarmResident_98:

(26, 59606), (Start: 30 @59612 has 195 MA's), (40, 59693), (42, 59717), (46, 59744), (56, 59783), (58, 59819), (61, 59825),

Gene: Fefferhead_35 Start: 29803, Stop: 30027, Start Num: 30

Candidate Starts for Fefferhead_35:

(11, 29605), (12, 29650), (14, 29680), (Start: 29 @29800 has 1 MA's), (Start: 30 @29803 has 195 MA's), (34, 29833), (38, 29860), (55, 29971),

Gene: Filch_112 Start: 62762, Stop: 63025, Start Num: 30

Candidate Starts for Filch_112:

(Start: 30 @62762 has 195 MA's), (34, 62792), (42, 62867), (63, 62984),

Gene: Finemlucis_97 Start: 61077, Stop: 61337, Start Num: 30

Candidate Starts for Finemlucis_97:

(Start: 30 @61077 has 195 MA's), (32, 61101), (42, 61182), (46, 61209), (50, 61221), (51, 61224), (52, 61230), (53, 61236), (57, 61278), (58, 61284),

Gene: Finnry_93 Start: 60082, Stop: 60351, Start Num: 25

Candidate Starts for Finnry_93:

(Start: 25 @60082 has 19 MA's), (34, 60121), (42, 60196), (46, 60223), (49, 60232), (61, 60304),

Gene: Fionnbharth_37 Start: 30626, Stop: 30907, Start Num: 30

Candidate Starts for Fionnbharth_37:

(7, 30362), (Start: 21 @30620 has 18 MA's), (Start: 30 @30626 has 195 MA's), (Start: 35 @30659 has 2 MA's), (38, 30683), (41, 30719), (49, 30770), (50, 30773), (54, 30791), (55, 30797), (59, 30839), (61, 30842), (62, 30845),

Gene: FireRed_113 Start: 63852, Stop: 64115, Start Num: 30

Candidate Starts for FireRed_113:

(Start: 30 @63852 has 195 MA's), (34, 63882), (42, 63957), (63, 64074),

Gene: Flypotenuse_106 Start: 62157, Stop: 62420, Start Num: 30

Candidate Starts for Flypotenuse_106:

(Start: 30 @62157 has 195 MA's), (34, 62187), (42, 62262), (63, 62379),

Gene: FoghornLeghorn_103 Start: 60742, Stop: 61005, Start Num: 30

Candidate Starts for FoghornLeghorn_103:

(Start: 30 @60742 has 195 MA's), (34, 60772), (42, 60847), (63, 60964),

Gene: Gabriela_96 Start: 59315, Stop: 59575, Start Num: 30

Candidate Starts for Gabriela_96:

(Start: 30 @59315 has 195 MA's), (32, 59339), (42, 59420), (50, 59459), (51, 59462), (52, 59468), (53, 59474), (57, 59516), (58, 59522),

Gene: Gage_112 Start: 63108, Stop: 63371, Start Num: 30

Candidate Starts for Gage_112:

(Start: 30 @63108 has 195 MA's), (34, 63138), (42, 63213), (63, 63330),

Gene: Gardann_96 Start: 59810, Stop: 60070, Start Num: 30

Candidate Starts for Gardann_96:

(Start: 30 @59810 has 195 MA's), (32, 59834), (42, 59915), (46, 59942), (50, 59954), (51, 59957), (52, 59963), (53, 59969), (57, 60011), (58, 60017),

Gene: Gator_108 Start: 63017, Stop: 63280, Start Num: 30

Candidate Starts for Gator_108:

(Start: 30 @63017 has 195 MA's), (34, 63047), (42, 63122), (63, 63239),

Gene: Gemini_115 Start: 63487, Stop: 63750, Start Num: 30

Candidate Starts for Gemini_115:

(Start: 30 @63487 has 195 MA's), (34, 63517), (42, 63592), (63, 63709),

Gene: Glexan_109 Start: 63167, Stop: 63430, Start Num: 30

Candidate Starts for Glexan_109:

(Start: 30 @63167 has 195 MA's), (34, 63197), (42, 63272), (63, 63389),

Gene: Goku_109 Start: 63305, Stop: 63568, Start Num: 30

Candidate Starts for Goku_109:

(Start: 30 @63305 has 195 MA's), (34, 63335), (42, 63410), (44, 63425), (63, 63527),

Gene: Goldilocks_113 Start: 62986, Stop: 63249, Start Num: 30

Candidate Starts for Goldilocks_113:

(Start: 30 @62986 has 195 MA's), (34, 63016), (42, 63091), (63, 63208),

Gene: GooberAzure_113 Start: 62970, Stop: 63233, Start Num: 30

Candidate Starts for GooberAzure_113:

(Start: 30 @62970 has 195 MA's), (34, 63000), (42, 63075), (63, 63192),

Gene: GuuelaD_93 Start: 59928, Stop: 60188, Start Num: 30

Candidate Starts for GuuelaD_93:

(Start: 30 @59928 has 195 MA's), (32, 59952), (42, 60033), (46, 60060), (50, 60072), (51, 60075), (52, 60081), (53, 60087), (57, 60129), (58, 60135),

Gene: Hafay_97 Start: 60035, Stop: 60274, Start Num: 30

Candidate Starts for Hafay_97:

(Start: 30 @60035 has 195 MA's), (42, 60140), (46, 60167), (47, 60170), (49, 60176), (50, 60179), (53, 60194), (57, 60236), (58, 60242),

Gene: Halena_89 Start: 56807, Stop: 57046, Start Num: 30

Candidate Starts for Halena_89:

(Start: 29 @56804 has 1 MA's), (Start: 30 @56807 has 195 MA's), (42, 56912), (44, 56927), (46, 56939), (51, 56954), (53, 56966), (57, 57008), (58, 57014),

Gene: Hammy_35 Start: 29798, Stop: 30028, Start Num: 21

Candidate Starts for Hammy_35:

(Start: 21 @29798 has 18 MA's), (Start: 22 @29801 has 6 MA's),

Gene: HanKaySha_110 Start: 63158, Stop: 63421, Start Num: 30

Candidate Starts for HanKaySha_110:

(Start: 30 @63158 has 195 MA's), (34, 63188), (42, 63263), (44, 63278), (63, 63380),

Gene: Harella_111 Start: 63683, Stop: 63946, Start Num: 30

Candidate Starts for Harella_111:

(Start: 30 @63683 has 195 MA's), (34, 63713), (42, 63788), (63, 63905),

Gene: Henry_108 Start: 62968, Stop: 63231, Start Num: 30

Candidate Starts for Henry_108:

(Start: 30 @62968 has 195 MA's), (34, 62998), (42, 63073), (44, 63088), (63, 63190),

Gene: Highbury_106 Start: 61315, Stop: 61578, Start Num: 30

Candidate Starts for Highbury_106:

(Start: 30 @61315 has 195 MA's), (34, 61345), (42, 61420), (44, 61435), (63, 61537),

Gene: Hilltopfarm_30 Start: 27540, Stop: 27812, Start Num: 28

Candidate Starts for Hilltopfarm_30:

(2, 27174), (8, 27261), (Start: 27 @27537 has 2 MA's), (Start: 28 @27540 has 3 MA's), (Start: 30 @27549 has 195 MA's), (31, 27567), (36, 27591), (37, 27594), (39, 27633), (40, 27636), (47, 27690), (48, 27693), (51, 27702), (58, 27762),

Gene: Holt_115 Start: 63384, Stop: 63647, Start Num: 30

Candidate Starts for Holt_115:

(Start: 30 @63384 has 195 MA's), (34, 63414), (42, 63489), (63, 63606),

Gene: Hoonter_113 Start: 63463, Stop: 63726, Start Num: 30

Candidate Starts for Hoonter_113:

(Start: 30 @63463 has 195 MA's), (34, 63493), (42, 63568), (63, 63685),

Gene: Hopey_110 Start: 63769, Stop: 64032, Start Num: 30

Candidate Starts for Hopey_110:

(Start: 30 @63769 has 195 MA's), (34, 63799), (42, 63874), (63, 63991),

Gene: HufflyPuff_112 Start: 64078, Stop: 64341, Start Num: 30

Candidate Starts for HufflyPuff_112:

(Start: 30 @64078 has 195 MA's), (34, 64108), (42, 64183), (63, 64300),

Gene: IHOP_108 Start: 62686, Stop: 62949, Start Num: 30

Candidate Starts for IHOP_108:

(Start: 30 @62686 has 195 MA's), (34, 62716), (42, 62791), (63, 62908),

Gene: Icee_111 Start: 62494, Stop: 62757, Start Num: 30

Candidate Starts for Icee_111:

(Start: 30 @62494 has 195 MA's), (34, 62524), (42, 62599), (63, 62716),

Gene: Inca_107 Start: 61175, Stop: 61438, Start Num: 30

Candidate Starts for Inca_107:

(Start: 30 @61175 has 195 MA's), (34, 61205), (42, 61280), (63, 61397),

Gene: Itos_96 Start: 58875, Stop: 59135, Start Num: 30

Candidate Starts for Itos_96:

(Start: 30 @58875 has 195 MA's), (32, 58899), (42, 58980), (50, 59019), (51, 59022), (52, 59028), (53, 59034), (57, 59076), (58, 59082),

Gene: JF1_37 Start: 30619, Stop: 30906, Start Num: 21

Candidate Starts for JF1_37:

(4, 30298), (7, 30361), (Start: 21 @30619 has 18 MA's), (Start: 30 @30625 has 195 MA's), (Start: 35 @30658 has 2 MA's), (38, 30682), (41, 30718), (49, 30769), (50, 30772), (54, 30790), (55, 30796), (59, 30838), (61, 30841), (62, 30844),

Gene: JeTaime_108 Start: 62594, Stop: 62857, Start Num: 30

Candidate Starts for JeTaime_108:

(Start: 30 @62594 has 195 MA's), (34, 62624), (42, 62699), (63, 62816),

Gene: Jobypre_93 Start: 59729, Stop: 59998, Start Num: 25

Candidate Starts for Jobypre_93:

(Start: 25 @59729 has 19 MA's), (34, 59768), (42, 59843), (46, 59870), (49, 59879), (61, 59951),

Gene: JoeDirt_93 Start: 58479, Stop: 58721, Start Num: 29

Candidate Starts for JoeDirt_93:

(Start: 29 @58479 has 1 MA's), (Start: 30 @58482 has 195 MA's), (42, 58587), (44, 58602), (46, 58614), (51, 58629), (53, 58641), (57, 58683), (58, 58689),

Gene: Jubie_92 Start: 59864, Stop: 60133, Start Num: 25

Candidate Starts for Jubie_92:

(Start: 25 @59864 has 19 MA's), (34, 59903), (42, 59978), (46, 60005), (49, 60014), (61, 60086),

Gene: Juliette_39 Start: 30778, Stop: 31065, Start Num: 21

Candidate Starts for Juliette_39:

(7, 30520), (Start: 21 @30778 has 18 MA's), (Start: 30 @30784 has 195 MA's), (Start: 35 @30817 has 2 MA's), (38, 30841), (41, 30877), (49, 30928), (50, 30931), (54, 30949), (55, 30955), (59, 30997), (61, 31000), (62, 31003),

Gene: Kahlid_95 Start: 59728, Stop: 59988, Start Num: 30

Candidate Starts for Kahlid_95:

(Start: 30 @59728 has 195 MA's), (32, 59752), (42, 59833), (46, 59860), (50, 59872), (51, 59875), (52, 59881), (53, 59887), (57, 59929), (58, 59935),

Gene: Kanye_107 Start: 63219, Stop: 63482, Start Num: 30

Candidate Starts for Kanye_107:

(Start: 30 @63219 has 195 MA's), (34, 63249), (42, 63324), (63, 63441),

Gene: Kimchi_114 Start: 63111, Stop: 63374, Start Num: 30

Candidate Starts for Kimchi_114:

(Start: 30 @63111 has 195 MA's), (34, 63141), (42, 63216), (63, 63333),

Gene: Kingsolomon_91 Start: 59838, Stop: 60107, Start Num: 25

Candidate Starts for Kingsolomon_91:

(Start: 25 @59838 has 19 MA's), (34, 59877), (42, 59952), (46, 59979), (49, 59988), (61, 60060),

Gene: KirDoubleO7_91 Start: 59750, Stop: 60019, Start Num: 25

Candidate Starts for KirDoubleO7_91:

(Start: 25 @59750 has 19 MA's), (34, 59789), (42, 59864), (46, 59891), (49, 59900), (61, 59972),

Gene: Kostya_110 Start: 62788, Stop: 63051, Start Num: 30

Candidate Starts for Kostya_110:

(Start: 30 @62788 has 195 MA's), (34, 62818), (42, 62893), (63, 63010),

Gene: Kraw_37 Start: 30544, Stop: 30831, Start Num: 21

Candidate Starts for Kraw_37:

(7, 30286), (Start: 21 @30544 has 18 MA's), (Start: 30 @30550 has 195 MA's), (Start: 35 @30583 has 2 MA's), (38, 30607), (41, 30643), (49, 30694), (50, 30697), (54, 30715), (55, 30721), (59, 30763), (61, 30766), (62, 30769),

Gene: Kropertea_92 Start: 59330, Stop: 59569, Start Num: 30

Candidate Starts for Kropertea_92:

(23, 59324), (Start: 30 @59330 has 195 MA's), (40, 59411), (42, 59435), (46, 59462), (56, 59501), (58, 59537), (61, 59543),

Gene: Krypton555_95 Start: 60241, Stop: 60510, Start Num: 25

Candidate Starts for Krypton555_95:

(Start: 25 @60241 has 19 MA's), (34, 60280), (42, 60355), (46, 60382), (49, 60391), (61, 60463),

Gene: Lavahound_34 Start: 29495, Stop: 29719, Start Num: 30

Candidate Starts for Lavahound_34:

(11, 29297), (12, 29342), (14, 29372), (Start: 29 @29492 has 1 MA's), (Start: 30 @29495 has 195 MA's), (34, 29525), (38, 29552),

Gene: LeBron_91 Start: 57114, Stop: 57353, Start Num: 30

Candidate Starts for LeBron_91:

(Start: 29 @57111 has 1 MA's), (Start: 30 @57114 has 195 MA's), (42, 57219), (44, 57234), (46, 57246), (51, 57261), (53, 57273), (58, 57321),

Gene: Lebo14_37 Start: 30633, Stop: 30920, Start Num: 21

Candidate Starts for Lebo14_37:

(Start: 21 @30633 has 18 MA's), (Start: 30 @30639 has 195 MA's), (Start: 35 @30672 has 2 MA's), (38, 30696), (41, 30732), (46, 30774), (49, 30783), (50, 30786), (54, 30804), (55, 30810), (59, 30852), (61, 30855), (62, 30858),

Gene: Lewan_97 Start: 59968, Stop: 60228, Start Num: 30

Candidate Starts for Lewan_97:

(Start: 30 @59968 has 195 MA's), (32, 59992), (42, 60073), (50, 60112), (51, 60115), (52, 60121), (53, 60127), (57, 60169), (58, 60175),

Gene: LilDestine_94 Start: 59639, Stop: 59899, Start Num: 30

Candidate Starts for LilDestine_94:

(Start: 30 @59639 has 195 MA's), (32, 59663), (42, 59744), (46, 59771), (50, 59783), (51, 59786), (52, 59792), (53, 59798), (57, 59840), (58, 59846),

Gene: Lilac_111 Start: 63912, Stop: 64175, Start Num: 30

Candidate Starts for Lilac_111:

(Start: 30 @63912 has 195 MA's), (34, 63942), (42, 64017), (63, 64134),

Gene: Lilizi_110 Start: 63198, Stop: 63461, Start Num: 30

Candidate Starts for Lilizi_110:

(Start: 30 @63198 has 195 MA's), (34, 63228), (42, 63303), (63, 63420),

Gene: Lilpickle_109 Start: 62610, Stop: 62873, Start Num: 30

Candidate Starts for Lilpickle_109:

(Start: 30 @62610 has 195 MA's), (34, 62640), (42, 62715), (63, 62832),

Gene: LiyuLake_92 Start: 59823, Stop: 60092, Start Num: 25

Candidate Starts for LiyuLake_92:

(Start: 25 @59823 has 19 MA's), (34, 59862), (42, 59937), (46, 59964), (49, 59973), (61, 60045),

Gene: Loadrie_95 Start: 60130, Stop: 60390, Start Num: 30

Candidate Starts for Loadrie_95:

(Start: 30 @60130 has 195 MA's), (32, 60154), (42, 60235), (46, 60262), (50, 60274), (51, 60277), (52, 60283), (53, 60289), (57, 60331), (58, 60337),

Gene: Lolly9_92 Start: 59914, Stop: 60183, Start Num: 25

Candidate Starts for Lolly9_92:

(Start: 25 @59914 has 19 MA's), (34, 59953), (42, 60028), (46, 60055), (49, 60064), (61, 60136),

Gene: Lumos_93 Start: 59726, Stop: 59995, Start Num: 25

Candidate Starts for Lumos_93:

(Start: 25 @59726 has 19 MA's), (34, 59765), (42, 59840), (46, 59867), (49, 59876), (61, 59948),

Gene: Lynnae_97 Start: 59740, Stop: 60000, Start Num: 30

Candidate Starts for Lynnae_97:

(Start: 30 @59740 has 195 MA's), (32, 59764), (42, 59845), (46, 59872), (50, 59884), (51, 59887), (52, 59893), (53, 59899), (57, 59941), (58, 59947),

Gene: MAckerman_90 Start: 56800, Stop: 57039, Start Num: 30

Candidate Starts for MAckerman_90:

(Start: 29 @56797 has 1 MA's), (Start: 30 @56800 has 195 MA's), (42, 56905), (44, 56920), (46, 56932), (51, 56947), (53, 56959), (57, 57001), (58, 57007),

Gene: MPhalcon_111 Start: 63313, Stop: 63576, Start Num: 30

Candidate Starts for MPhalcon_111:

(Start: 30 @63313 has 195 MA's), (34, 63343), (42, 63418), (63, 63535),

Gene: MacnCheese_37 Start: 30394, Stop: 30618, Start Num: 22

Candidate Starts for MacnCheese_37:

(14, 30301), (Start: 21 @30391 has 18 MA's), (Start: 22 @30394 has 6 MA's),

Gene: MadamMonkfish_109 Start: 62620, Stop: 62883, Start Num: 30

Candidate Starts for MadamMonkfish_109:

(Start: 30 @62620 has 195 MA's), (34, 62650), (42, 62725), (44, 62740), (63, 62842),

Gene: Malthus_38 Start: 30550, Stop: 30831, Start Num: 30

Candidate Starts for Malthus_38:

(7, 30286), (Start: 21 @30544 has 18 MA's), (Start: 30 @30550 has 195 MA's), (Start: 35 @30583 has 2 MA's), (38, 30607), (41, 30643), (49, 30694), (50, 30697), (54, 30715), (55, 30721), (59, 30763), (61, 30766), (62, 30769),

Gene: Manda_111 Start: 63350, Stop: 63613, Start Num: 30

Candidate Starts for Manda_111:

(Start: 30 @63350 has 195 MA's), (34, 63380), (42, 63455), (44, 63470), (63, 63572),

Gene: Marshmallow_108 Start: 63308, Stop: 63571, Start Num: 30

Candidate Starts for Marshmallow_108:

(Start: 30 @63308 has 195 MA's), (34, 63338), (42, 63413), (44, 63428), (63, 63530),

Gene: Maxxinista_112 Start: 63097, Stop: 63360, Start Num: 30

Candidate Starts for Maxxinista_112:

(Start: 30 @63097 has 195 MA's), (34, 63127), (42, 63202), (63, 63319),

Gene: McMater_36 Start: 28807, Stop: 29037, Start Num: 21

Candidate Starts for McMater_36:

(4, 28489), (10, 28618), (12, 28687), (14, 28717), (Start: 21 @28807 has 18 MA's), (Start: 22 @28810 has 6 MA's), (45, 28933), (53, 28969),

Gene: Miley16_96 Start: 60332, Stop: 60592, Start Num: 30

Candidate Starts for Miley16_96:

(Start: 30 @60332 has 195 MA's), (32, 60356), (42, 60437), (50, 60476), (51, 60479), (52, 60485), (53, 60491), (57, 60533), (58, 60539),

Gene: Mindy_109 Start: 62629, Stop: 62892, Start Num: 30

Candidate Starts for Mindy_109:

(Start: 30 @62629 has 195 MA's), (34, 62659), (42, 62734), (63, 62851),

Gene: MiniLon_97 Start: 59915, Stop: 60184, Start Num: 25

Candidate Starts for MiniLon_97:

(Start: 25 @59915 has 19 MA's), (34, 59954), (42, 60029), (46, 60056), (49, 60065), (61, 60137),

Gene: MiniMac_97 Start: 59910, Stop: 60179, Start Num: 25

Candidate Starts for MiniMac_97:

(Start: 25 @59910 has 19 MA's), (34, 59949), (42, 60024), (46, 60051), (49, 60060), (61, 60132),

Gene: Miniwave_105 Start: 62806, Stop: 63069, Start Num: 30

Candidate Starts for Miniwave_105:

(Start: 30 @62806 has 195 MA's), (34, 62836), (42, 62911), (63, 63028),

Gene: Misfit_111 Start: 64409, Stop: 64672, Start Num: 30

Candidate Starts for Misfit_111:

(Start: 30 @64409 has 195 MA's), (34, 64439), (42, 64514), (63, 64631),

Gene: MissDaisy_37 Start: 30393, Stop: 30674, Start Num: 30

Candidate Starts for MissDaisy_37:

(Start: 21 @30387 has 18 MA's), (Start: 30 @30393 has 195 MA's), (Start: 35 @30426 has 2 MA's), (38, 30450), (41, 30486), (49, 30537), (50, 30540), (54, 30558), (55, 30564), (56, 30567), (59, 30606), (61, 30609), (62, 30612),

Gene: Mitti_37 Start: 30551, Stop: 30832, Start Num: 30

Candidate Starts for Mitti_37:

(Start: 21 @30545 has 18 MA's), (Start: 30 @30551 has 195 MA's), (Start: 35 @30584 has 2 MA's), (38, 30608), (41, 30644), (49, 30695), (50, 30698), (54, 30716), (55, 30722), (59, 30764), (61, 30767), (62, 30770),

Gene: MkaliMitinis3_98 Start: 60094, Stop: 60354, Start Num: 30

Candidate Starts for MkaliMitinis3_98:

(Start: 30 @60094 has 195 MA's), (32, 60118), (42, 60199), (50, 60238), (51, 60241), (52, 60247), (53, 60253), (57, 60295), (58, 60301),

Gene: Moldemort_112 Start: 63078, Stop: 63341, Start Num: 30

Candidate Starts for Moldemort_112:

(Start: 30 @63078 has 195 MA's), (34, 63108), (42, 63183), (44, 63198), (63, 63300),

Gene: Moostard_90 Start: 59833, Stop: 60102, Start Num: 25

Candidate Starts for Moostard_90:

(Start: 25 @59833 has 19 MA's), (34, 59872), (42, 59947), (46, 59974), (49, 59983), (61, 60055),

Gene: Mosby_107 Start: 62773, Stop: 63036, Start Num: 30

Candidate Starts for Mosby_107:

(Start: 30 @62773 has 195 MA's), (34, 62803), (42, 62878), (63, 62995),

Gene: MsGreen_93 Start: 59728, Stop: 59997, Start Num: 25

Candidate Starts for MsGreen_93:

(Start: 25 @59728 has 19 MA's), (34, 59767), (42, 59842), (46, 59869), (49, 59878), (61, 59950),

Gene: Murica_114 Start: 65112, Stop: 65375, Start Num: 30

Candidate Starts for Murica_114:

(Start: 30 @65112 has 195 MA's), (34, 65142), (42, 65217), (63, 65334),

Gene: Murphy_109 Start: 63470, Stop: 63733, Start Num: 30

Candidate Starts for Murphy_109:

(Start: 30 @63470 has 195 MA's), (34, 63500), (42, 63575), (44, 63590), (63, 63692),

Gene: Myrale_110 Start: 63567, Stop: 63830, Start Num: 30

Candidate Starts for Myrale_110:

(Start: 30 @63567 has 195 MA's), (34, 63597), (42, 63672), (63, 63789),

Gene: Nala_112 Start: 63822, Stop: 64085, Start Num: 30

Candidate Starts for Nala_112:

(Start: 30 @63822 has 195 MA's), (34, 63852), (42, 63927), (63, 64044),

Gene: NelitzaMV_107 Start: 61795, Stop: 62058, Start Num: 30

Candidate Starts for NelitzaMV_107:

(Start: 30 @61795 has 195 MA's), (34, 61825), (42, 61900), (63, 62017),

Gene: Netyap_95 Start: 59970, Stop: 60230, Start Num: 30

Candidate Starts for Netyap_95:

(Start: 30 @59970 has 195 MA's), (32, 59994), (42, 60075), (50, 60114), (51, 60117), (52, 60123), (53, 60129), (57, 60171), (58, 60177),

Gene: Nicholas_91 Start: 59838, Stop: 60107, Start Num: 25

Candidate Starts for Nicholas_91:

(Start: 25 @59838 has 19 MA's), (34, 59877), (42, 59952), (46, 59979), (49, 59988), (61, 60060),

Gene: Nicholasp3_96 Start: 59810, Stop: 60070, Start Num: 30

Candidate Starts for Nicholasp3_96:

(Start: 30 @59810 has 195 MA's), (32, 59834), (42, 59915), (46, 59942), (50, 59954), (51, 59957), (52, 59963), (53, 59969), (57, 60011), (58, 60017),

Gene: Niklas_36 Start: 28813, Stop: 29040, Start Num: 22

Candidate Starts for Niklas_36:

(4, 28492), (10, 28621), (12, 28690), (14, 28720), (Start: 21 @28810 has 18 MA's), (Start: 22 @28813 has 6 MA's), (45, 28936), (53, 28972),

Gene: Nimrod_110 Start: 63456, Stop: 63719, Start Num: 30

Candidate Starts for Nimrod_110:

(Start: 30 @63456 has 195 MA's), (34, 63486), (42, 63561), (63, 63678),

Gene: NoSleep_110 Start: 62630, Stop: 62893, Start Num: 30

Candidate Starts for NoSleep_110:

(Start: 30 @62630 has 195 MA's), (34, 62660), (42, 62735), (63, 62852),

Gene: NonchalantPear_108 Start: 62063, Stop: 62326, Start Num: 30

Candidate Starts for NonchalantPear_108:

(Start: 30 @62063 has 195 MA's), (34, 62093), (42, 62168), (63, 62285),

Gene: OhShagHennessy_88 Start: 57057, Stop: 57296, Start Num: 30

Candidate Starts for OhShagHennessy_88:

(Start: 29 @57054 has 1 MA's), (Start: 30 @57057 has 195 MA's), (42, 57162), (44, 57177), (46, 57189), (51, 57204), (53, 57216), (57, 57258), (58, 57264),

Gene: OmniCritical_37 Start: 30529, Stop: 30816, Start Num: 21

Candidate Starts for OmniCritical_37:

(Start: 21 @30529 has 18 MA's), (Start: 30 @30535 has 195 MA's), (Start: 35 @30568 has 2 MA's), (38, 30592), (41, 30628), (49, 30679), (50, 30682), (54, 30700), (55, 30706), (59, 30748), (61, 30751), (62, 30754),

Gene: OrionPax_108 Start: 62703, Stop: 62966, Start Num: 30

Candidate Starts for OrionPax_108:

(Start: 30 @62703 has 195 MA's), (34, 62733), (42, 62808), (44, 62823), (63, 62925),

Gene: OverPar_98 Start: 60130, Stop: 60390, Start Num: 30

Candidate Starts for OverPar_98:

(Start: 30 @60130 has 195 MA's), (32, 60154), (42, 60235), (46, 60262), (50, 60274), (51, 60277), (52, 60283), (53, 60289), (57, 60331), (58, 60337),

Gene: PYPDinur_97 Start: 60288, Stop: 60527, Start Num: 30

Candidate Starts for PYPDinur_97:

(23, 60282), (Start: 30 @60288 has 195 MA's), (40, 60369), (42, 60393), (46, 60420), (56, 60459), (58, 60495), (61, 60501),

Gene: Palpatine_111 Start: 64107, Stop: 64370, Start Num: 30

Candidate Starts for Palpatine_111:

(Start: 30 @64107 has 195 MA's), (34, 64137), (42, 64212), (63, 64329),

Gene: Paperbeatsrock_109 Start: 63484, Stop: 63747, Start Num: 30

Candidate Starts for Paperbeatsrock_109:

(Start: 30 @63484 has 195 MA's), (34, 63514), (42, 63589), (63, 63706),

Gene: Pat3_107 Start: 62123, Stop: 62386, Start Num: 30

Candidate Starts for Pat3_107:

(Start: 30 @62123 has 195 MA's), (34, 62153), (42, 62228), (63, 62345),

Gene: Patt_37 Start: 30369, Stop: 30650, Start Num: 30

Candidate Starts for Patt_37:

(Start: 21 @30363 has 18 MA's), (Start: 30 @30369 has 195 MA's), (Start: 35 @30402 has 2 MA's), (38, 30426), (41, 30462), (49, 30513), (50, 30516), (54, 30534), (55, 30540), (56, 30543), (59, 30582), (61, 30585), (62, 30588),

Gene: Peanam_36 Start: 28807, Stop: 29037, Start Num: 21

Candidate Starts for Peanam_36:

(4, 28489), (10, 28618), (12, 28687), (14, 28717), (Start: 21 @28807 has 18 MA's), (Start: 22 @28810 has 6 MA's), (45, 28933), (53, 28969),

Gene: Phaja_108 Start: 62688, Stop: 62951, Start Num: 30

Candidate Starts for Phaja_108:

(Start: 30 @62688 has 195 MA's), (34, 62718), (42, 62793), (63, 62910),

Gene: Pharb_35 Start: 29653, Stop: 29877, Start Num: 22

Candidate Starts for Pharb_35:

(4, 29332), (12, 29530), (14, 29560), (Start: 21 @29650 has 18 MA's), (Start: 22 @29653 has 6 MA's), (38, 29710),

Gene: Pharsalus_107 Start: 63183, Stop: 63446, Start Num: 30

Candidate Starts for Pharsalus_107:

(Start: 30 @63183 has 195 MA's), (34, 63213), (42, 63288), (63, 63405),

Gene: PhatBacter_113 Start: 63852, Stop: 64115, Start Num: 30

Candidate Starts for PhatBacter_113:

(Start: 30 @63852 has 195 MA's), (34, 63882), (42, 63957), (63, 64074),

Gene: Phaux_112 Start: 64412, Stop: 64675, Start Num: 30

Candidate Starts for Phaux_112:

(Start: 30 @64412 has 195 MA's), (34, 64442), (42, 64517), (44, 64532), (63, 64634),

Gene: PhelpsODU_36 Start: 28916, Stop: 29149, Start Num: 21

Candidate Starts for PhelpsODU_36:

(Start: 21 @28916 has 18 MA's), (46, 29057), (60, 29135),

Gene: Phrank_36 Start: 28866, Stop: 29099, Start Num: 21

Candidate Starts for Phrank_36:

(14, 28776), (Start: 21 @28866 has 18 MA's), (46, 29007), (60, 29085),

Gene: Phrux_106 Start: 62490, Stop: 62753, Start Num: 30

Candidate Starts for Phrux_106:

(Start: 30 @62490 has 195 MA's), (34, 62520), (42, 62595), (63, 62712),

Gene: Policronamos_113 Start: 64116, Stop: 64379, Start Num: 30

Candidate Starts for Policronamos_113:

(Start: 30 @64116 has 195 MA's), (34, 64146), (42, 64221), (63, 64338),

Gene: Poochiewood_90 Start: 58454, Stop: 58693, Start Num: 30

Candidate Starts for Poochiewood_90:

(Start: 29 @58451 has 1 MA's), (Start: 30 @58454 has 195 MA's), (42, 58559), (44, 58574), (46, 58586), (51, 58601), (53, 58613), (57, 58655), (58, 58661),

Gene: Porky_108 Start: 62234, Stop: 62497, Start Num: 30

Candidate Starts for Porky_108:

(Start: 30 @62234 has 195 MA's), (34, 62264), (42, 62339), (44, 62354), (63, 62456),

Gene: Pumpkin_111 Start: 62830, Stop: 63093, Start Num: 30

Candidate Starts for Pumpkin_111:

(Start: 30 @62830 has 195 MA's), (34, 62860), (42, 62935), (63, 63052),

Gene: Quallification_111 Start: 63898, Stop: 64161, Start Num: 30

Candidate Starts for Quallification_111:

(Start: 30 @63898 has 195 MA's), (34, 63928), (42, 64003), (63, 64120),

Gene: Quby_97 Start: 59700, Stop: 59939, Start Num: 30

Candidate Starts for Quby_97:

(17, 59646), (24, 59694), (Start: 30 @59700 has 195 MA's), (40, 59781), (42, 59805), (46, 59832), (56, 59871), (58, 59907), (61, 59913),

Gene: Rakim_111 Start: 62900, Stop: 63163, Start Num: 30

Candidate Starts for Rakim_111:

(Start: 30 @62900 has 195 MA's), (34, 62930), (42, 63005), (63, 63122),

Gene: Red305_94 Start: 59729, Stop: 59998, Start Num: 25

Candidate Starts for Red305_94:

(Start: 25 @59729 has 19 MA's), (34, 59768), (42, 59843), (46, 59870), (49, 59879), (61, 59951),

Gene: Reptar3000_37 Start: 30360, Stop: 30641, Start Num: 30

Candidate Starts for Reptar3000_37:

(Start: 21 @30354 has 18 MA's), (Start: 30 @30360 has 195 MA's), (Start: 35 @30393 has 2 MA's), (38, 30417), (41, 30453), (49, 30504), (50, 30507), (54, 30525), (55, 30531), (56, 30534), (59, 30573), (61, 30576), (62, 30579),

Gene: Richo_36 Start: 28807, Stop: 29037, Start Num: 21

Candidate Starts for Richo_36:

(4, 28489), (10, 28618), (12, 28687), (14, 28717), (Start: 21 @28807 has 18 MA's), (Start: 22 @28810 has 6 MA's), (45, 28933), (53, 28969),

Gene: Rimmer_108 Start: 63289, Stop: 63552, Start Num: 30

Candidate Starts for Rimmer_108:

(Start: 30 @63289 has 195 MA's), (34, 63319), (42, 63394), (63, 63511),

Gene: RiverMonster_109 Start: 63385, Stop: 63648, Start Num: 30

Candidate Starts for RiverMonster_109:

(Start: 30 @63385 has 195 MA's), (34, 63415), (42, 63490), (63, 63607),

Gene: Rose5_93 Start: 58324, Stop: 58563, Start Num: 30

Candidate Starts for Rose5_93:

(Start: 29 @58321 has 1 MA's), (Start: 30 @58324 has 195 MA's), (42, 58429), (44, 58444), (46, 58456), (51, 58471), (53, 58483), (57, 58525), (58, 58531),

Gene: Rossetti_96 Start: 60130, Stop: 60390, Start Num: 30

Candidate Starts for Rossetti_96:

(Start: 30 @60130 has 195 MA's), (32, 60154), (42, 60235), (46, 60262), (50, 60274), (51, 60277), (52, 60283), (53, 60289), (57, 60331), (58, 60337),

Gene: Rumpelstiltskin_92 Start: 59603, Stop: 59863, Start Num: 30

Candidate Starts for Rumpelstiltskin_92:

(Start: 30 @59603 has 195 MA's), (32, 59627), (42, 59708), (46, 59735), (50, 59747), (51, 59750), (52, 59756), (53, 59762), (57, 59804), (58, 59810),

Gene: Ruthiejr_38 Start: 30510, Stop: 30797, Start Num: 21

Candidate Starts for Ruthiejr_38:

(7, 30252), (Start: 21 @30510 has 18 MA's), (Start: 30 @30516 has 195 MA's), (Start: 35 @30549 has 2 MA's), (38, 30573), (41, 30609), (49, 30660), (50, 30663), (54, 30681), (55, 30687), (59, 30729), (61, 30732), (62, 30735),

Gene: Saints25_106 Start: 61315, Stop: 61578, Start Num: 30

Candidate Starts for Saints25_106:

(Start: 30 @61315 has 195 MA's), (34, 61345), (42, 61420), (44, 61435), (63, 61537),

Gene: SamScheppers_37 Start: 31023, Stop: 31310, Start Num: 21

Candidate Starts for SamScheppers_37:

(Start: 21 @31023 has 18 MA's), (Start: 30 @31029 has 195 MA's), (Start: 35 @31062 has 2 MA's), (38, 31086), (41, 31122), (49, 31173), (50, 31176), (54, 31194), (55, 31200), (59, 31242), (61, 31245), (62, 31248),

Gene: Samty_92 Start: 59826, Stop: 60095, Start Num: 25

Candidate Starts for Samty_92:

(Start: 25 @59826 has 19 MA's), (34, 59865), (42, 59940), (46, 59967), (49, 59976), (61, 60048),

Gene: Sarshaun_97 Start: 60721, Stop: 60981, Start Num: 30

Candidate Starts for Sarshaun_97:

(Start: 30 @60721 has 195 MA's), (32, 60745), (42, 60826), (50, 60865), (51, 60868), (52, 60874), (53, 60880), (57, 60922), (58, 60928),

Gene: ShamWow_110 Start: 63783, Stop: 64046, Start Num: 30

Candidate Starts for ShamWow_110:

(Start: 30 @63783 has 195 MA's), (34, 63813), (42, 63888), (63, 64005),

Gene: Shaobing_36 Start: 28810, Stop: 29037, Start Num: 22

Candidate Starts for Shaobing_36:

(4, 28489), (10, 28618), (12, 28687), (14, 28717), (Start: 21 @28807 has 18 MA's), (Start: 22 @28810 has 6 MA's), (45, 28933), (53, 28969),

Gene: Sheng711_98 Start: 59764, Stop: 60003, Start Num: 30

Candidate Starts for Sheng711_98:

(23, 59758), (Start: 30 @59764 has 195 MA's), (40, 59845), (42, 59869), (46, 59896), (52, 59917), (56, 59935), (58, 59971),

Gene: ShereKhan_108 Start: 64144, Stop: 64407, Start Num: 30

Candidate Starts for ShereKhan_108:

(Start: 30 @64144 has 195 MA's), (34, 64174), (42, 64249), (63, 64366),

Gene: Silverleaf_91 Start: 57820, Stop: 58059, Start Num: 30

Candidate Starts for Silverleaf_91:

(Start: 29 @57817 has 1 MA's), (Start: 30 @57820 has 195 MA's), (42, 57925), (44, 57940), (46, 57952), (51, 57967), (53, 57979), (58, 58027),

Gene: Simpliphy_108 Start: 62956, Stop: 63219, Start Num: 30

Candidate Starts for Simpliphy_108:

(Start: 30 @62956 has 195 MA's), (34, 62986), (42, 63061), (44, 63076), (63, 63178),

Gene: SirDuracell_110 Start: 62622, Stop: 62885, Start Num: 30

Candidate Starts for SirDuracell_110:

(Start: 30 @62622 has 195 MA's), (34, 62652), (42, 62727), (63, 62844),

Gene: SirPhilip_35 Start: 28286, Stop: 28516, Start Num: 21

Candidate Starts for SirPhilip_35:

(Start: 21 @28286 has 18 MA's), (Start: 22 @28289 has 6 MA's), (38, 28346),

Gene: Slarp_37 Start: 30638, Stop: 30919, Start Num: 30

Candidate Starts for Slarp_37:

(Start: 21 @30632 has 18 MA's), (Start: 30 @30638 has 195 MA's), (Start: 35 @30671 has 2 MA's), (38, 30695), (41, 30731), (46, 30773), (49, 30782), (50, 30785), (54, 30803), (55, 30809), (59, 30851), (61, 30854), (62, 30857),

Gene: Snenia_92 Start: 59730, Stop: 59999, Start Num: 25

Candidate Starts for Snenia_92:

(Start: 25 @59730 has 19 MA's), (34, 59769), (42, 59844), (46, 59871), (49, 59880), (61, 59952),

Gene: SoJulia_98 Start: 61486, Stop: 61746, Start Num: 30

Candidate Starts for SoJulia_98:

(Start: 30 @61486 has 195 MA's), (32, 61510), (42, 61591), (46, 61618), (50, 61630), (51, 61633), (52, 61639), (53, 61645), (57, 61687), (58, 61693),

Gene: Soap141_96 Start: 60721, Stop: 60981, Start Num: 30

Candidate Starts for Soap141_96:

(Start: 30 @60721 has 195 MA's), (32, 60745), (42, 60826), (50, 60865), (51, 60868), (52, 60874), (53, 60880), (57, 60922), (58, 60928),

Gene: SophKB_108 Start: 62945, Stop: 63208, Start Num: 30

Candidate Starts for SophKB_108:

(Start: 30 @62945 has 195 MA's), (34, 62975), (42, 63050), (44, 63065), (63, 63167),

Gene: Sotrice96_111 Start: 63409, Stop: 63672, Start Num: 30

Candidate Starts for Sotrice96_111:

(Start: 30 @63409 has 195 MA's), (34, 63439), (42, 63514), (63, 63631),

Gene: Stank_112 Start: 63183, Stop: 63446, Start Num: 30

Candidate Starts for Stank_112:

(Start: 30 @63183 has 195 MA's), (34, 63213), (42, 63288), (63, 63405),

Gene: Stark_110 Start: 63269, Stop: 63532, Start Num: 30

Candidate Starts for Stark_110:

(Start: 30 @63269 has 195 MA's), (34, 63299), (42, 63374), (63, 63491),

Gene: StellaBean_108 Start: 63566, Stop: 63829, Start Num: 30

Candidate Starts for StellaBean_108:

(Start: 30 @63566 has 195 MA's), (34, 63596), (42, 63671), (63, 63788),

Gene: StolenFromERC_112 Start: 63108, Stop: 63371, Start Num: 30

Candidate Starts for StolenFromERC_112:

(Start: 30 @63108 has 195 MA's), (34, 63138), (42, 63213), (63, 63330),

Gene: TBrady12_113 Start: 62620, Stop: 62883, Start Num: 30

Candidate Starts for TBrady12_113:

(Start: 30 @62620 has 195 MA's), (34, 62650), (42, 62725), (63, 62842),

Gene: TClif_37 Start: 29261, Stop: 29491, Start Num: 22

Candidate Starts for TClif_37:

(4, 28940), (7, 29003), (9, 29027), (12, 29138), (14, 29168), (Start: 22 @29261 has 6 MA's),

Gene: Taquito_37 Start: 31057, Stop: 31305, Start Num: 35

Candidate Starts for Taquito_37:

(5, 30796), (6, 30802), (Start: 35 @31057 has 2 MA's), (38, 31081), (41, 31117), (49, 31168), (50, 31171), (54, 31189), (55, 31195), (59, 31237), (61, 31240), (62, 31243),

Gene: Tarkin_109 Start: 64009, Stop: 64272, Start Num: 30

Candidate Starts for Tarkin_109:

(Start: 30 @64009 has 195 MA's), (34, 64039), (42, 64114), (63, 64231),

Gene: TeardropMSU_106 Start: 62511, Stop: 62774, Start Num: 30

Candidate Starts for TeardropMSU_106:

(Start: 30 @62511 has 195 MA's), (34, 62541), (42, 62616), (63, 62733),

Gene: Teaspoon_110 Start: 63168, Stop: 63431, Start Num: 30

Candidate Starts for Teaspoon_110:

(Start: 30 @63168 has 195 MA's), (34, 63198), (42, 63273), (63, 63390),

Gene: Terminus_113 Start: 64409, Stop: 64672, Start Num: 30

Candidate Starts for Terminus_113:

(Start: 30 @64409 has 195 MA's), (34, 64439), (42, 64514), (63, 64631),

Gene: Thimble_112 Start: 62370, Stop: 62633, Start Num: 30

Candidate Starts for Thimble_112:

(Start: 30 @62370 has 195 MA's), (34, 62400), (42, 62475), (63, 62592),

Gene: Thresher_111 Start: 64049, Stop: 64312, Start Num: 30

Candidate Starts for Thresher_111:

(Start: 30 @64049 has 195 MA's), (34, 64079), (42, 64154), (63, 64271),

Gene: Tierra_36 Start: 29587, Stop: 29820, Start Num: 21

Candidate Starts for Tierra_36:

(14, 29497), (Start: 21 @29587 has 18 MA's), (46, 29728), (60, 29806),

Gene: Tomaszewski_105 Start: 62947, Stop: 63210, Start Num: 30

Candidate Starts for Tomaszewski_105:

(Start: 30 @62947 has 195 MA's), (34, 62977), (42, 63052), (63, 63169),

Gene: Toto_108 Start: 63783, Stop: 64046, Start Num: 30

Candidate Starts for Toto_108:

(Start: 30 @63783 has 195 MA's), (34, 63813), (42, 63888), (63, 64005),

Gene: Tourach_96 Start: 60701, Stop: 60940, Start Num: 30

Candidate Starts for Tourach_96:

(Start: 30 @60701 has 195 MA's), (32, 60725), (34, 60731), (42, 60806), (46, 60833), (49, 60842), (50, 60845), (51, 60848), (52, 60854), (53, 60860), (57, 60902), (58, 60908),

Gene: Traaww1_106 Start: 62332, Stop: 62595, Start Num: 30

Candidate Starts for Traaww1_106:

(Start: 30 @62332 has 195 MA's), (34, 62362), (42, 62437), (63, 62554),

Gene: TriFive_94 Start: 59842, Stop: 60111, Start Num: 25

Candidate Starts for TriFive_94:

(Start: 25 @59842 has 19 MA's), (34, 59881), (42, 59956), (46, 59983), (49, 59992), (61, 60064),

Gene: TribbleTrouble_36 Start: 30199, Stop: 30423, Start Num: 30

Candidate Starts for TribbleTrouble_36:

(19, 30175), (Start: 30 @30199 has 195 MA's), (52, 30352), (55, 30367),

Gene: Tuco_111 Start: 64570, Stop: 64833, Start Num: 30

Candidate Starts for Tuco_111:

(Start: 30 @64570 has 195 MA's), (34, 64600), (42, 64675), (63, 64792),

Gene: Typha_30 Start: 27510, Stop: 27782, Start Num: 28

Candidate Starts for Typha_30:

(8, 27231), (Start: 27 @27507 has 2 MA's), (Start: 28 @27510 has 3 MA's), (Start: 30 @27519 has 195 MA's), (31, 27537), (36, 27561), (37, 27564), (39, 27603), (40, 27606), (47, 27660), (48, 27663), (51, 27672), (58, 27732),

Gene: Tyson_93 Start: 58217, Stop: 58456, Start Num: 30

Candidate Starts for Tyson_93:

(Start: 29 @58214 has 1 MA's), (Start: 30 @58217 has 195 MA's), (42, 58322), (44, 58337), (46, 58349), (51, 58364), (53, 58376), (58, 58424),

Gene: UPIE_91 Start: 57813, Stop: 58052, Start Num: 30

Candidate Starts for UPIE_91:

(Start: 29 @57810 has 1 MA's), (Start: 30 @57813 has 195 MA's), (42, 57918), (44, 57933), (46, 57945), (51, 57960), (53, 57972), (57, 58014), (58, 58020),

Gene: Ukulele_104 Start: 62768, Stop: 63031, Start Num: 30

Candidate Starts for Ukulele_104:

(Start: 30 @62768 has 195 MA's), (34, 62798), (42, 62873), (63, 62990),

Gene: Underpass_88 Start: 54846, Stop: 55106, Start Num: 30

Candidate Starts for Underpass_88:

(Start: 30 @54846 has 195 MA's), (32, 54870), (42, 54951), (46, 54978), (50, 54990), (51, 54993), (52, 54999), (53, 55005), (57, 55047), (58, 55053),

Gene: Unicorn_36 Start: 28916, Stop: 29149, Start Num: 21

Candidate Starts for Unicorn_36:

(Start: 21 @28916 has 18 MA's), (46, 29057), (60, 29135),

Gene: Vetrix_94 Start: 59584, Stop: 59844, Start Num: 30

Candidate Starts for Vetrix_94:

(Start: 30 @59584 has 195 MA's), (32, 59608), (42, 59689), (46, 59716), (50, 59728), (51, 59731), (52, 59737), (53, 59743), (57, 59785), (58, 59791),

Gene: Wamburgexpress_91 Start: 57941, Stop: 58180, Start Num: 30

Candidate Starts for Wamburgexpress_91:

(Start: 29 @57938 has 1 MA's), (Start: 30 @57941 has 195 MA's), (42, 58046), (44, 58061), (46, 58073), (51, 58088), (53, 58100), (57, 58142), (58, 58148),

Gene: Whirlwind_94 Start: 60069, Stop: 60338, Start Num: 25

Candidate Starts for Whirlwind_94:

(Start: 25 @60069 has 19 MA's), (34, 60108), (42, 60183), (46, 60210), (49, 60219), (61, 60291),

Gene: Wiggin_112 Start: 62613, Stop: 62876, Start Num: 30

Candidate Starts for Wiggin_112:

(Start: 30 @62613 has 195 MA's), (34, 62643), (42, 62718), (63, 62835),

Gene: Wigglewiggle_96 Start: 59892, Stop: 60152, Start Num: 30

Candidate Starts for Wigglewiggle_96:

(Start: 30 @59892 has 195 MA's), (32, 59916), (42, 59997), (50, 60036), (51, 60039), (52, 60045), (53, 60051), (57, 60093), (58, 60099),

Gene: Wilder_97 Start: 59728, Stop: 59988, Start Num: 30

Candidate Starts for Wilder_97:

(Start: 30 @59728 has 195 MA's), (32, 59752), (42, 59833), (46, 59860), (50, 59872), (51, 59875), (52, 59881), (53, 59887), (57, 59929), (58, 59935),

Gene: Willez_105 Start: 61735, Stop: 61998, Start Num: 30

Candidate Starts for Willez_105:

(Start: 30 @61735 has 195 MA's), (34, 61765), (42, 61840), (63, 61957),

Gene: Winky_96 Start: 60332, Stop: 60592, Start Num: 30

Candidate Starts for Winky_96:

(Start: 30 @60332 has 195 MA's), (32, 60356), (42, 60437), (50, 60476), (51, 60479), (52, 60485), (53, 60491), (57, 60533), (58, 60539),

Gene: Wintermute_37 Start: 30625, Stop: 30906, Start Num: 30

Candidate Starts for Wintermute_37:

(Start: 21 @30619 has 18 MA's), (Start: 30 @30625 has 195 MA's), (Start: 35 @30658 has 2 MA's), (38, 30682), (41, 30718), (49, 30769), (50, 30772), (54, 30790), (55, 30796), (59, 30838), (61, 30841), (62, 30844),

Gene: Wyatt2_93 Start: 58248, Stop: 58487, Start Num: 30

Candidate Starts for Wyatt2_93:

(Start: 29 @58245 has 1 MA's), (Start: 30 @58248 has 195 MA's), (42, 58353), (44, 58368), (46, 58380), (51, 58395), (53, 58407), (57, 58449), (58, 58455),

Gene: Xandras_109 Start: 62436, Stop: 62699, Start Num: 30

Candidate Starts for Xandras_109:

(Start: 30 @62436 has 195 MA's), (34, 62466), (42, 62541), (63, 62658),

Gene: Y10_37 Start: 30625, Stop: 30906, Start Num: 30

Candidate Starts for Y10_37:

(4, 30298), (7, 30361), (Start: 21 @30619 has 18 MA's), (Start: 30 @30625 has 195 MA's), (Start: 35 @30658 has 2 MA's), (38, 30682), (41, 30718), (49, 30769), (50, 30772), (54, 30790), (55, 30796), (59, 30838), (61, 30841), (62, 30844),

Gene: Y2_37 Start: 30625, Stop: 30906, Start Num: 30

Candidate Starts for Y2_37:

(4, 30298), (7, 30361), (Start: 21 @30619 has 18 MA's), (Start: 30 @30625 has 195 MA's), (Start: 35 @30658 has 2 MA's), (38, 30682), (41, 30718), (49, 30769), (50, 30772), (54, 30790), (55, 30796), (59, 30838), (61, 30841), (62, 30844),

Gene: YasnayaPolyana_37 Start: 30659, Stop: 30907, Start Num: 35

Candidate Starts for YasnayaPolyana_37:

(Start: 21 @30620 has 18 MA's), (Start: 30 @30626 has 195 MA's), (Start: 35 @30659 has 2 MA's), (38, 30683), (41, 30719), (49, 30770), (50, 30773), (54, 30791), (55, 30797), (59, 30839), (61, 30842), (62, 30845),

Gene: YassJohnny_107 Start: 61756, Stop: 62019, Start Num: 30
Candidate Starts for YassJohnny_107:
(Start: 30 @61756 has 195 MA's), (34, 61786), (42, 61861), (63, 61978),

Gene: Youngblood_114 Start: 63905, Stop: 64168, Start Num: 30
Candidate Starts for Youngblood_114:
(Start: 30 @63905 has 195 MA's), (34, 63935), (42, 64010), (63, 64127),

Gene: Yuna_37 Start: 29330, Stop: 29563, Start Num: 21
Candidate Starts for Yuna_37:
(4, 29012), (12, 29210), (14, 29240), (Start: 21 @29330 has 18 MA's), (Start: 30 @29339 has 195 MA's), (34, 29369), (38, 29396), (47, 29474), (49, 29480),

Gene: Zakai_97 Start: 60371, Stop: 60631, Start Num: 30
Candidate Starts for Zakai_97:
(Start: 30 @60371 has 195 MA's), (32, 60395), (42, 60476), (46, 60503), (50, 60515), (51, 60518), (52, 60524), (53, 60530), (57, 60572), (58, 60578),

Gene: Zaria_92 Start: 57356, Stop: 57595, Start Num: 30
Candidate Starts for Zaria_92:
(Start: 29 @57353 has 1 MA's), (Start: 30 @57356 has 195 MA's), (42, 57461), (44, 57476), (46, 57488), (51, 57503), (53, 57515), (58, 57563),

Gene: ZhongYanYuan_93 Start: 59783, Stop: 60043, Start Num: 30
Candidate Starts for ZhongYanYuan_93:
(Start: 30 @59783 has 195 MA's), (42, 59888), (46, 59915), (47, 59918), (49, 59924), (50, 59927), (53, 59942), (57, 59984), (58, 59990),

Gene: xkcd_114 Start: 64090, Stop: 64353, Start Num: 30
Candidate Starts for xkcd_114:
(Start: 30 @64090 has 195 MA's), (34, 64120), (42, 64195), (63, 64312),