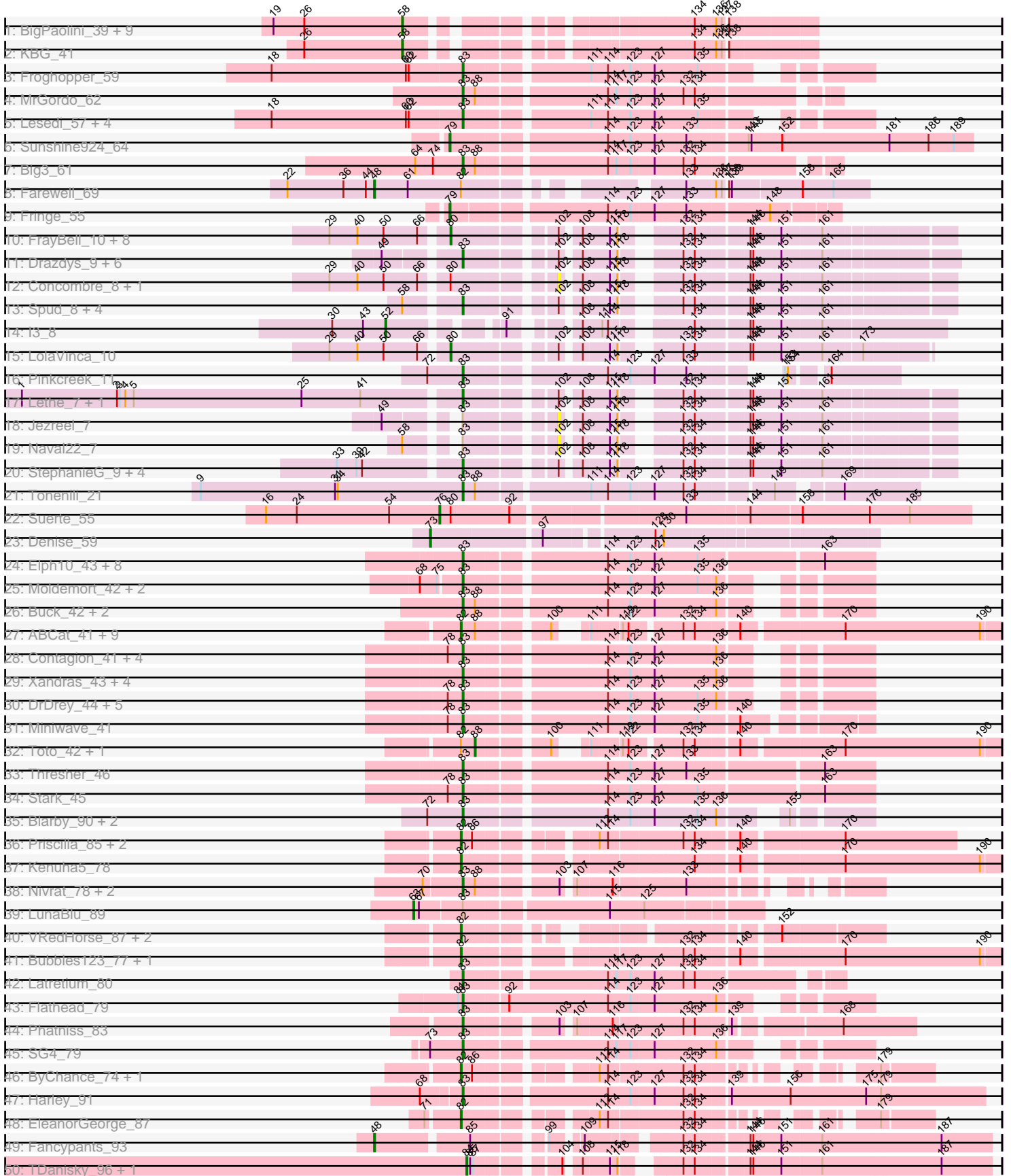
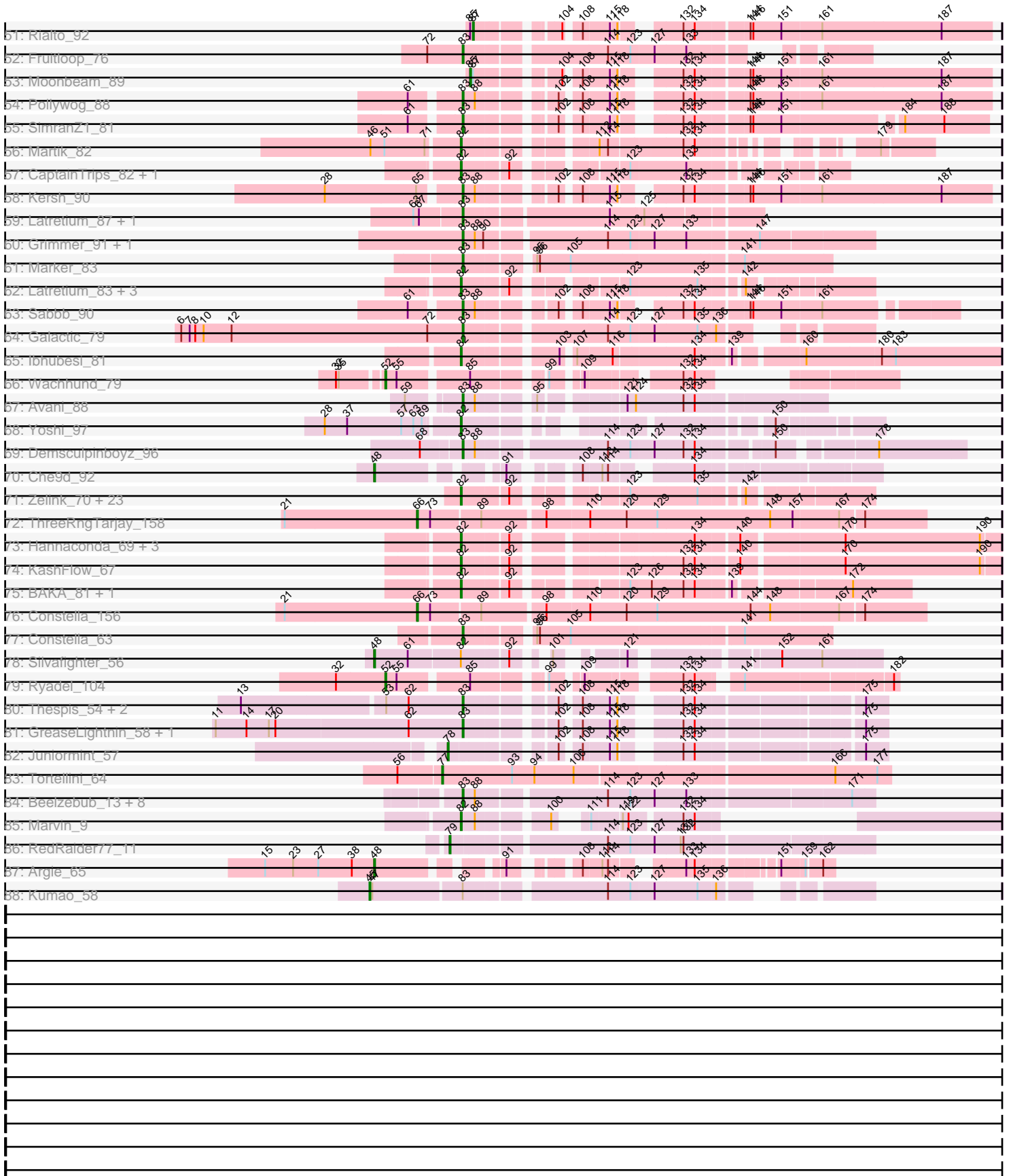


Pham 202672



Pham 202672



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 202672 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202672 has 215 members, 15 are drafts.

Phages represented in each track:

- Track 1 : BigPaolini_39, ILeeKay_42, Cueylyss_40, Eyeball_40, Doom_40, Wilkins_39, Topgun_39, Graduation_42, Licorice_42, Smairt_41
- Track 2 : KBG_41
- Track 3 : FrogHopper_59
- Track 4 : MrGordo_62
- Track 5 : Lesedi_57, Fajezeel_62, Acme_63, Bxb1_55, Greg_62
- Track 6 : Sunshine924_64
- Track 7 : Big3_61
- Track 8 : Farewell_69
- Track 9 : Fringe_55
- Track 10 : FrayBell_10, JayJay_8, Tainan_10, Sebata_9, Specks_10, InterFolia_10, JigglyPuff_8, LordLeafolot_10, LinStu_9
- Track 11 : Drazdys_9, Kamryn_7, Bxz1_7, Tyke_9, Mikro_7, DTDevon_9, NoodleTree_7
- Track 12 : Concombre_8, Demodog_7
- Track 13 : Spud_8, Nidhogg_7, Sauce_7, MoMoMixon_7, Pio_8
- Track 14 : l3_8
- Track 15 : LolaVinca_10
- Track 16 : Pinkcreek_11
- Track 17 : Lethe_7, Bigswole_6
- Track 18 : Jezreel_7
- Track 19 : Naval22_7
- Track 20 : StephanieG_9, NuevoMundo_9, Pier_10, Astraea_9, Dandelion_10
- Track 21 : Tonenili_21
- Track 22 : Suerte_55
- Track 23 : Denise_59
- Track 24 : Elph10_43, Czyszczonek1_44, NoSleep_45, Murphy_45, Maxxinista_45, Lilac_46, Cjw1_44, Lilizi_43, RiverMonster_44
- Track 25 : Moldemort_42, MadamMonkfish_42, AmericanBeauty_43
- Track 26 : Buck_42, Rimmer_42, Youngblood_43
- Track 27 : ABCat_41, Inca_40, BilboSwaggins_42, IHOP_41, Tuco_44, Myrale_43, CrystalP_43, ShamWow_43, StellaBean_41, Phaja_41
- Track 28 : Contagion_41, Cookies_41, Mosby_40, TeardropMSU_40, Tomaszewski_40
- Track 29 : Xandras_43, JeTaime_44, OrionPax_43, Filch_44, Pumpkin_45
- Track 30 : DrDrey_44, Phrux_42, HanKaySha_43, 244_45, Hopey_44, ShereKhan_42

- Track 31 : Miniwave_41
- Track 32 : Toto_42, Marshmallow_42
- Track 33 : Thresher_46
- Track 34 : Stark_45
- Track 35 : Blarby_90, Zapner_89, Jabbawokkie_90
- Track 36 : Priscilla_85, Koella_77, NormanBulbieJr_83
- Track 37 : Kenuha5_78
- Track 38 : Nivrat_78, LilMoolah_80, Che8_85
- Track 39 : LunaBlu_89
- Track 40 : VRedHorse_87, Estave1_94, Avani_91
- Track 41 : Bubbles123_77, Shauna1_82
- Track 42 : Latretium_80
- Track 43 : Flathead_79
- Track 44 : Phatniss_83
- Track 45 : SG4_79
- Track 46 : ByChance_74, ShowerHandel_83
- Track 47 : Harley_91
- Track 48 : EleanorGeorge_87
- Track 49 : Fancypants_93
- Track 50 : TDanisky_96, Sparkdehlily_95
- Track 51 : Rialto_92
- Track 52 : Fruitloop_76
- Track 53 : Moonbeam_89
- Track 54 : Pollywog_88
- Track 55 : SimranZ1_81
- Track 56 : Martik_82
- Track 57 : CaptainTrips_82, MinionDave_78
- Track 58 : Kersh_90
- Track 59 : Latretium_87, Dante_84
- Track 60 : Grimmer_91, Mahavrat_77
- Track 61 : Marker_83
- Track 62 : Latretium_83, Wanda_76, Minerva_78, Klein_72
- Track 63 : Sabbb_90
- Track 64 : Galactic_79
- Track 65 : lbhubesi_81
- Track 66 : Wachhund_79
- Track 67 : Avani_88
- Track 68 : Yoshi_97
- Track 69 : Demsculpinboyz_96
- Track 70 : Che9d_92
- Track 71 : Zelink_70, Superphikiman_70, Schatzie_67, Kalah2_67, Ejimix_72, Phoebus_75, MiaZeal_73, JuicyJay_71, Halley_74, Beem_72, DmpstrDiver_72, Odette_71, HokkenD_65, FairyPath_41, Porcelain_72, ThreeRngTarjay_70, NihilNomen_73, Redno2_69, Quallification_42, Hughesyang_71, Dallas_71, Lucky2013_70, Squint_73, Ariel_72
- Track 72 : ThreeRngTarjay_158
- Track 73 : Hannaconda_69, Aubs_83, SuperGrey_83, Donkeykong_89
- Track 74 : KashFlow_67
- Track 75 : BAKA_81, Duke13_79
- Track 76 : Constella_156
- Track 77 : Constella_63
- Track 78 : Silvafighter_56
- Track 79 : Ryadel_104

- Track 80 : Thespis_54, Brusacoram_54, Atcoo_54
- Track 81 : GreaseLightnin_58, StevieRay_57
- Track 82 : Juniormint_57
- Track 83 : Tortellini_64
- Track 84 : Beelzebub_13, Corazon_10, FeliMaine_11, Lilbit_11, LittleLaf_10, Pringar_10, Clarkson_11, JoieB_11, Huphlepuuff_11
- Track 85 : Marvin_9
- Track 86 : RedRaider77_11
- Track 87 : Argie_65
- Track 88 : Kumao_58

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

The start number called the most often in the published annotations is 83, it was called in 98 of the 200 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_45, Acme_63, AmericanBeauty_43, Astraea_9, Atcoo_54, Avani_88, Beelzebub_13, Big3_61, Bigswole_6, Blarby_90, Brusacoram_54, Buck_42, Bxb1_55, Bxz1_7, Che8_85, Cjw1_44, Clarkson_11, Constella_63, Contagion_41, Cookies_41, Corazon_10, Czyszczonek_44, DTDevon_9, Dandelion_10, Dante_84, Demsculpinboyz_96, DrDrey_44, Drazdys_9, Elph10_43, Fajezeel_62, FeliMaine_11, Filch_44, Flathead_79, Froghopper_59, Fruitloop_76, Galactic_79, GreaseLightnin_58, Greg_62, Grimmer_91, HanKaySha_43, Harley_91, Hopey_44, Huphlepuuff_11, Jabbawokkie_90, JeTaime_44, JoieB_11, Kamryn_7, Kersh_90, Latretium_80, Latretium_87, Lesedi_57, Lethe_7, LilMoolah_80, Lilac_46, Lilbit_11, Lilizi_43, LittleLaf_10, MadamMonkfish_42, Mahavrat_77, Marker_83, Maxxinista_45, Mikro_7, Miniwave_41, MoMoMixon_7, Moldemort_42, Mosby_40, MrGordo_62, Murphy_45, Nidhogg_7, Nivrat_78, NoSleep_45, NoodleTree_7, NuevoMundo_9, OrionPax_43, Phatniss_83, Phrux_42, Pier_10, Pinkcreek_11, Pio_8, Pollywog_88, Pringar_10, Pumpkin_45, Rimmer_42, RiverMonster_44, SG4_79, Sabbb_90, Sauce_7, ShereKhan_42, SimranZ1_81, Spud_8, Stark_45, StephanieG_9, StevieRay_57, TeardropMSU_40, Thespis_54, Thresher_46, Tomaszewski_40, Tonenili_21, Tyke_9, Xandras_43, Youngblood_43, Zapner_89,

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

- Jezreel_7, Kumao_58, LunaBlu_89, Naval22_7,

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

- ABCat_41, Argie_65, Ariel_72, Aubs_83, Avani_91, BAKA_81, Beem_72, BigPaolini_39, BilboSwaggins_42, Bubbles123_77, ByChance_74, CaptainTrips_82, Che9d_92, Concombre_8, Constella_156, CrystalP_43, Cueylyss_40, Dallas_71, Demodog_7, Denise_59, DmpstrDiver_72, Donkeykong_89, Doom_40, Duke13_79, Ejimix_72, EleanorGeorge_87, Estave1_94, Eyeball_40, FairyPath_41, Fancypants_93, Farewell_69, FrayBell_10, Fringe_55, Graduation_42, Halley_74, Hannaconda_69, HokkenD_65, Hughesyang_71, I3_8, IHOP_41, ILeeKay_42, Ihubesi_81, Inca_40, InterFolia_10, JayJay_8, JigglyPuff_8, JuicyJay_71, Juniormint_57, KBG_41, Kalah2_67, KashFlow_67, Kenuha5_78, Klein_72, Koella_77, Latretium_83, Licorice_42, LinStu_9, LolaVinca_10, LordLeafolot_10, Lucky2013_70, Marshmallow_42, Martik_82, Marvin_9, MiaZeal_73, Minerva_78,

MinionDave_78, Moonbeam_89, Myrale_43, NihilNomen_73, NormanBulbieJr_83, Odette_71, Phaja_41, Phoebus_75, Porcelain_72, Priscilla_85, Qualification_42, RedRaider77_11, Redno2_69, Rialto_92, Ryadel_104, Schatzie_67, Sebata_9, ShamWow_43, Shauna1_82, ShowerHandel_83, Silvafighter_56, Smairt_41, Sparkdehlily_95, Specks_10, Squint_73, StellaBean_41, Suerte_55, Sunshine924_64, SuperGrey_83, Superphikiman_70, TDanisky_96, Tainan_10, ThreeRngTarjay_158, ThreeRngTarjay_70, Topgun_39, Tortellini_64, Toto_42, Tuco_44, VRedHorse_87, Wachhund_79, Wanda_76, Wilkins_39, Yoshi_97, Zelink_70,

Summary by start number:

Start 45:

- Found in 1 of 215 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_58 (singleton),

Start 48:

- Found in 5 of 215 (2.3%) of genes in pham
- Manual Annotations of this start: 5 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_65 (W), Che9d_92 (F2), Fancypants_93 (F1), Farewell_69 (AF), Silvafighter_56 (N),

Start 52:

- Found in 3 of 215 (1.4%) of genes in pham
- Manual Annotations of this start: 3 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: I3_8 (C1), Ryadel_104 (O), Wachhund_79 (F1),

Start 58:

- Found in 17 of 215 (7.9%) of genes in pham
- Manual Annotations of this start: 11 of 200
- Called 64.7% of time when present
- Phage (with cluster) where this start called: BigPaolini_39 (A1), Cueylyss_40 (A1), Doom_40 (A1), Eyeball_40 (A1), Graduation_42 (A1), ILeeKay_42 (A1), KBG_41 (A1), Licorice_42 (A1), Smairt_41 (A1), Topgun_39 (A1), Wilkins_39 (A1),

Start 63:

- Found in 4 of 215 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 25.0% of time when present
- Phage (with cluster) where this start called: LunaBlu_89 (F1),

Start 66:

- Found in 14 of 215 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 200
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Constella_156 (J), ThreeRngTarjay_158 (J),

Start 73:

- Found in 4 of 215 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Denise_59 (CZ5),

Start 76:

- Found in 1 of 215 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Suerte_55 (CZ4),

Start 77:

- Found in 1 of 215 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tortellini_64 (P2),

Start 78:

- Found in 14 of 215 (6.5%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Juniormint_57 (P1),

Start 79:

- Found in 3 of 215 (1.4%) of genes in pham
- Manual Annotations of this start: 3 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fringe_55 (B1), RedRaider77_11 (S), Sunshine924_64 (A1),

Start 80:

- Found in 13 of 215 (6.0%) of genes in pham
- Manual Annotations of this start: 6 of 200
- Called 76.9% of time when present
- Phage (with cluster) where this start called: FrayBell_10 (C1), InterFolia_10 (C1), JayJay_8 (C1), JigglyPuff_8 (C1), LinStu_9 (C1), LolaVinca_10 (C1), LordLeafolot_10 (C1), Sebata_9 (C1), Specks_10 (C1), Tainan_10 (C1),

Start 82:

- Found in 67 of 215 (31.2%) of genes in pham
- Manual Annotations of this start: 60 of 200
- Called 94.0% of time when present
- Phage (with cluster) where this start called: ABCat_41 (E), Ariel_72 (J), Aubs_83 (F1), Avani_91 (F2), BAKA_81 (J), Beem_72 (J), BilboSwaggins_42 (E), Bubbles123_77 (F1), ByChance_74 (F1), CaptainTrips_82 (F1), CrystalP_43 (E), Dallas_71 (J), DmpstrDiver_72 (J), Donkeykong_89 (F1), Duke13_79 (J), Ejimix_72 (J), EleanorGeorge_87 (F1), Estave1_94 (F1), FairyPath_41 (E), Halley_74 (J), Hannaconda_69 (J), HokkenD_65 (J), Hughesyang_71 (J), IHOP_41 (E), Ibhubesi_81 (F1), Inca_40 (E), JuicyJay_71 (J), Kalah2_67 (J), KashFlow_67 (J), Kenuha5_78 (F1), Klein_72 (J), Koella_77 (F1), Latretium_83 (F1), Lucky2013_70 (J), Martik_82 (F1), Marvin_9 (S), MiaZeal_73 (J), Minerva_78 (J), MinionDave_78 (F1), Myrale_43 (E), NihilNomen_73 (J), NormanBulbieJr_83 (F1), Odette_71 (J), Phaja_41

(E), Phoebus_75 (J), Porcelain_72 (J), Priscilla_85 (F1), Qualification_42 (E), Redno2_69 (J), Schatzie_67 (J), ShamWow_43 (E), Shauna1_82 (F1), ShowerHandel_83 (F1), Squint_73 (J), StellaBean_41 (E), SuperGrey_83 (F1), Superphikiman_70 (J), ThreeRngTarjay_70 (J), Tuco_44 (E), VRedHorse_87 (F1), Wanda_76 (J), Yoshi_97 (F2), Zelink_70 (J),

Start 83:

- Found in 106 of 215 (49.3%) of genes in pham
- Manual Annotations of this start: 98 of 200
- Called 96.2% of time when present
- Phage (with cluster) where this start called: 244_45 (E), Acme_63 (A1), AmericanBeauty_43 (E), Astraea_9 (C1), Atcoo_54 (P1), Avani_88 (F2), Beelzebub_13 (S), Big3_61 (A1), Bigswole_6 (C1), Blarby_90 (F), Brusacoram_54 (P1), Buck_42 (E), Bxb1_55 (A1), Bxz1_7 (C1), Che8_85 (F1), Cjw1_44 (E), Clarkson_11 (S), Constella_63 (J), Contagion_41 (E), Cookies_41 (E), Corazon_10 (S), Czystczon1_44 (E), DTDevon_9 (C1), Dandelion_10 (C1), Dante_84 (F1), Demsculpinboyz_96 (F2), DrDrey_44 (E), Drazdys_9 (C1), Elph10_43 (E), Fajezeel_62 (A1), FeliMaine_11 (S), Filch_44 (E), Flathead_79 (F1), Froghopper_59 (A1), Fruitloop_76 (F1), Galactic_79 (F1), GreaseLightnin_58 (P1), Greg_62 (A1), Grimmer_91 (F1), HanKaySha_43 (E), Harley_91 (F1), Hopey_44 (E), Huphlepuuff_11 (S), Jabbawokkie_90 (F2), JeTaime_44 (E), JoieB_11 (S), Kamryn_7 (C1), Kersh_90 (F1), Latretium_80 (F1), Latretium_87 (F1), Lesedi_57 (A1), Lethe_7 (C1), LilMoolah_80 (F1), Lilac_46 (E), Lilbit_11 (S), Lilizi_43 (E), LittleLaf_10 (S), MadamMonkfish_42 (E), Mahavrat_77 (F1), Marker_83 (F1), Maxxinista_45 (E), Mikro_7 (C1), Miniwave_41 (E), MoMoMixon_7 (C1), Moldemort_42 (E), Mosby_40 (E), MrGordo_62 (A1), Murphy_45 (E), Nidhogg_7 (C1), Nivrat_78 (F1), NoSleep_45 (E), NoodleTree_7 (C1), NuevoMundo_9 (C1), OrionPax_43 (E), Phatniss_83 (F1), Phrux_42 (E), Pier_10 (C1), Pinkcreek_11 (C1), Pio_8 (C1), Pollywog_88 (F1), Pringar_10 (S), Pumpkin_45 (E), Rimmer_42 (E), RiverMonster_44 (E), SG4_79 (F1), Sabb_90 (F1), Sauce_7 (C1), ShereKhan_42 (E), SimranZ1_81 (F1), Spud_8 (C1), Stark_45 (E), StephanieG_9 (C1), StevieRay_57 (P1), TeardropMSU_40 (E), Thespis_54 (P1), Thresher_46 (E), Tomaszewski_40 (E), Tonenili_21 (C1), Tyke_9 (C1), Xandras_43 (E), Youngblood_43 (E), Zapner_89 (F2),

Start 84:

- Found in 2 of 215 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sparkdehlily_95 (F1), TDanisky_96 (F1),

Start 85:

- Found in 7 of 215 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Moonbeam_89 (F1),

Start 87:

- Found in 4 of 215 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 200
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Rialto_92 (F1),

Start 88:

- Found in 38 of 215 (17.7%) of genes in pham
- Manual Annotations of this start: 2 of 200
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Marshmallow_42 (E), Toto_42 (E),

Start 102:

- Found in 43 of 215 (20.0%) of genes in pham
- No Manual Annotations of this start.
- Called 9.3% of time when present
- Phage (with cluster) where this start called: Concombre_8 (C1), Demodog_7 (C1), Jezreel_7 (C1), Naval22_7 (C1),

Summary by clusters:

There are 18 clusters represented in this pham: P2, F1, F2, P1, E, AF, F, J, singleton, CZ4, N, A1, S, O, W, C1, CZ5, B1,

Info for manual annotations of cluster A1:

- Start number 58 was manually annotated 11 times for cluster A1.
- Start number 79 was manually annotated 1 time for cluster A1.
- Start number 83 was manually annotated 8 times for cluster A1.

Info for manual annotations of cluster AF:

- Start number 48 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster B1:

- Start number 79 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster C1:

- Start number 52 was manually annotated 1 time for cluster C1.
- Start number 80 was manually annotated 6 times for cluster C1.
- Start number 83 was manually annotated 20 times for cluster C1.

Info for manual annotations of cluster CZ4:

- Start number 76 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 73 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster E:

- Start number 82 was manually annotated 10 times for cluster E.
- Start number 83 was manually annotated 34 times for cluster E.
- Start number 88 was manually annotated 2 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 48 was manually annotated 1 time for cluster F1.
- Start number 52 was manually annotated 1 time for cluster F1.
- Start number 63 was manually annotated 1 time for cluster F1.
- Start number 82 was manually annotated 19 times for cluster F1.
- Start number 83 was manually annotated 18 times for cluster F1.
- Start number 84 was manually annotated 2 times for cluster F1.
- Start number 85 was manually annotated 1 time for cluster F1.

- Start number 87 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 48 was manually annotated 1 time for cluster F2.
- Start number 82 was manually annotated 2 times for cluster F2.
- Start number 83 was manually annotated 4 times for cluster F2.

Info for manual annotations of cluster J:

- Start number 66 was manually annotated 2 times for cluster J.
- Start number 82 was manually annotated 28 times for cluster J.
- Start number 83 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster N:

- Start number 48 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster O:

- Start number 52 was manually annotated 1 time for cluster O.

Info for manual annotations of cluster P1:

- Start number 78 was manually annotated 1 time for cluster P1.
- Start number 83 was manually annotated 5 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 77 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster S:

- Start number 79 was manually annotated 1 time for cluster S.
- Start number 82 was manually annotated 1 time for cluster S.
- Start number 83 was manually annotated 8 times for cluster S.

Info for manual annotations of cluster W:

- Start number 48 was manually annotated 1 time for cluster W.

Gene Information:

Gene: 244_45 Start: 35533, Stop: 35168, Start Num: 83

Candidate Starts for 244_45:

(Start: 78 @35548 has 1 MA's), (Start: 83 @35533 has 98 MA's), (114, 35398), (123, 35374), (127, 35350), (135, 35305), (136, 35287),

Gene: ABCat_41 Start: 35824, Stop: 35336, Start Num: 82

Candidate Starts for ABCat_41:

(Start: 82 @35824 has 60 MA's), (Start: 88 @35812 has 2 MA's), (100, 35749), (111, 35734), (119, 35707), (122, 35701), (132, 35656), (134, 35644), (140, 35602), (170, 35500), (190, 35356),

Gene: Acme_63 Start: 41329, Stop: 40964, Start Num: 83

Candidate Starts for Acme_63:

(18, 41530), (60, 41386), (62, 41383), (Start: 83 @41329 has 98 MA's), (111, 41212), (114, 41194), (123, 41170), (127, 41146), (135, 41101),

Gene: AmericanBeauty_43 Start: 35021, Stop: 34656, Start Num: 83

Candidate Starts for AmericanBeauty_43:

(68, 35060), (75, 35042), (Start: 83 @35021 has 98 MA's), (114, 34886), (123, 34862), (127, 34838), (135, 34793), (136, 34775),

Gene: Argie_65 Start: 48661, Stop: 49026, Start Num: 48

Candidate Starts for Argie_65:

(15, 48544), (23, 48574), (27, 48601), (38, 48637), (Start: 48 @48661 has 5 MA's), (91, 48766), (108, 48814), (113, 48832), (114, 48838), (133, 48895), (134, 48904), (151, 48976), (159, 49000), (162, 49015),

Gene: Ariel_72 Start: 46298, Stop: 45933, Start Num: 82

Candidate Starts for Ariel_72:

(Start: 82 @46298 has 60 MA's), (92, 46256), (123, 46160), (135, 46091), (142, 46052),

Gene: Astraea_9 Start: 2499, Stop: 2930, Start Num: 83

Candidate Starts for Astraea_9:

(33, 2394), (39, 2415), (42, 2421), (Start: 83 @2499 has 98 MA's), (102, 2574), (108, 2589), (115, 2616), (118, 2622), (132, 2667), (134, 2679), (144, 2730), (146, 2733), (151, 2763), (161, 2805),

Gene: Atcoo_54 Start: 36879, Stop: 37241, Start Num: 83

Candidate Starts for Atcoo_54:

(13, 36651), (53, 36798), (62, 36822), (Start: 83 @36879 has 98 MA's), (102, 36954), (108, 36969), (115, 36996), (118, 37002), (132, 37047), (134, 37059), (175, 37218),

Gene: Aubs_83 Start: 50008, Stop: 50520, Start Num: 82

Candidate Starts for Aubs_83:

(Start: 82 @50008 has 60 MA's), (92, 50050), (134, 50212), (140, 50254), (170, 50356), (190, 50500),

Gene: Avani_88 Start: 46792, Stop: 47127, Start Num: 83

Candidate Starts for Avani_88:

(59, 46759), (Start: 83 @46792 has 98 MA's), (Start: 88 @46804 has 2 MA's), (95, 46852), (121, 46927), (124, 46936), (132, 46984), (134, 46996),

Gene: Avani_91 Start: 47610, Stop: 47966, Start Num: 82

Candidate Starts for Avani_91:

(Start: 82 @47610 has 60 MA's), (152, 47862),

Gene: BAKA_81 Start: 52347, Stop: 51940, Start Num: 82

Candidate Starts for BAKA_81:

(Start: 82 @52347 has 60 MA's), (92, 52305), (123, 52209), (126, 52188), (132, 52155), (134, 52143), (139, 52110), (172, 52002),

Gene: Beelzebub_13 Start: 3753, Stop: 4160, Start Num: 83

Candidate Starts for Beelzebub_13:

(Start: 83 @3753 has 98 MA's), (Start: 88 @3765 has 2 MA's), (114, 3891), (123, 3915), (127, 3939), (133, 3972), (171, 4137),

Gene: Beem_72 Start: 50575, Stop: 50210, Start Num: 82

Candidate Starts for Beem_72:

(Start: 82 @50575 has 60 MA's), (92, 50533), (123, 50437), (135, 50368), (142, 50329),

Gene: Big3_61 Start: 41706, Stop: 41350, Start Num: 83

Candidate Starts for Big3_61:

(64, 41754), (74, 41736), (Start: 83 @41706 has 98 MA's), (Start: 88 @41694 has 2 MA's), (114, 41568), (117, 41559), (123, 41544), (127, 41520), (132, 41490), (134, 41478),

Gene: BigPaolini_39 Start: 30429, Stop: 30067, Start Num: 58

Candidate Starts for BigPaolini_39:

(19, 30567), (26, 30534), (Start: 58 @30429 has 11 MA's), (134, 30186), (136, 30165), (137, 30159), (138, 30156),

Gene: Bigswole_6 Start: 2050, Stop: 2481, Start Num: 83

Candidate Starts for Bigswole_6:

(1, 1606), (2, 1708), (3, 1711), (4, 1717), (5, 1726), (25, 1906), (41, 1969), (Start: 83 @2050 has 98 MA's), (102, 2125), (108, 2140), (115, 2167), (118, 2173), (132, 2218), (134, 2230), (144, 2281), (146, 2284), (151, 2314), (161, 2356),

Gene: BilboSwaggins_42 Start: 35832, Stop: 35344, Start Num: 82

Candidate Starts for BilboSwaggins_42:

(Start: 82 @35832 has 60 MA's), (Start: 88 @35820 has 2 MA's), (100, 35757), (111, 35742), (119, 35715), (122, 35709), (132, 35664), (134, 35652), (140, 35610), (170, 35508), (190, 35364),

Gene: Blarby_90 Start: 47520, Stop: 47888, Start Num: 83

Candidate Starts for Blarby_90:

(72, 47484), (Start: 83 @47520 has 98 MA's), (114, 47655), (123, 47679), (127, 47703), (135, 47748), (136, 47766), (155, 47814),

Gene: Brusacoram_54 Start: 36385, Stop: 36747, Start Num: 83

Candidate Starts for Brusacoram_54:

(13, 36157), (53, 36304), (62, 36328), (Start: 83 @36385 has 98 MA's), (102, 36460), (108, 36475), (115, 36502), (118, 36508), (132, 36553), (134, 36565), (175, 36724),

Gene: Bubbles123_77 Start: 48885, Stop: 49397, Start Num: 82

Candidate Starts for Bubbles123_77:

(Start: 82 @48885 has 60 MA's), (132, 49077), (134, 49089), (140, 49131), (170, 49233), (190, 49377),

Gene: Buck_42 Start: 35321, Stop: 34953, Start Num: 83

Candidate Starts for Buck_42:

(Start: 83 @35321 has 98 MA's), (Start: 88 @35309 has 2 MA's), (114, 35183), (123, 35159), (127, 35135), (136, 35072),

Gene: Bxb1_55 Start: 39572, Stop: 39207, Start Num: 83

Candidate Starts for Bxb1_55:

(18, 39773), (60, 39629), (62, 39626), (Start: 83 @39572 has 98 MA's), (111, 39455), (114, 39437), (123, 39413), (127, 39389), (135, 39344),

Gene: Bxz1_7 Start: 2148, Stop: 2579, Start Num: 83

Candidate Starts for Bxz1_7:

(49, 2091), (Start: 83 @2148 has 98 MA's), (102, 2223), (108, 2238), (115, 2265), (118, 2271), (132, 2316), (134, 2328), (144, 2379), (146, 2382), (151, 2412), (161, 2454),

Gene: ByChance_74 Start: 45038, Stop: 45421, Start Num: 82

Candidate Starts for ByChance_74:

(Start: 82 @45038 has 60 MA's), (86, 45047), (112, 45149), (114, 45158), (132, 45230), (134, 45242), (179, 45368),

Gene: CaptainTrips_82 Start: 48768, Stop: 49100, Start Num: 82
Candidate Starts for CaptainTrips_82:
(Start: 82 @48768 has 60 MA's), (92, 48810), (123, 48906), (133, 48963),

Gene: Che8_85 Start: 49488, Stop: 49877, Start Num: 83
Candidate Starts for Che8_85:
(70, 49449), (Start: 83 @49488 has 98 MA's), (Start: 88 @49500 has 2 MA's), (103, 49572), (107, 49581), (116, 49617), (133, 49689),

Gene: Che9d_92 Start: 49021, Stop: 49440, Start Num: 48
Candidate Starts for Che9d_92:
(Start: 48 @49021 has 5 MA's), (91, 49126), (108, 49174), (113, 49192), (114, 49198), (134, 49264),

Gene: Cjw1_44 Start: 36482, Stop: 36078, Start Num: 83
Candidate Starts for Cjw1_44:
(Start: 83 @36482 has 98 MA's), (114, 36347), (123, 36323), (127, 36299), (135, 36254), (163, 36131),

Gene: Clarkson_11 Start: 3529, Stop: 3936, Start Num: 83
Candidate Starts for Clarkson_11:
(Start: 83 @3529 has 98 MA's), (Start: 88 @3541 has 2 MA's), (114, 3667), (123, 3691), (127, 3715), (133, 3748), (171, 3913),

Gene: Concombres_8 Start: 2242, Stop: 2598, Start Num: 102
Candidate Starts for Concombres_8:
(29, 2038), (40, 2068), (50, 2095), (Start: 66 @2131 has 2 MA's), (Start: 80 @2155 has 6 MA's), (102, 2242), (108, 2257), (115, 2284), (118, 2290), (132, 2335), (134, 2347), (144, 2398), (146, 2401), (151, 2431), (161, 2473),

Gene: Constella_156 Start: 84801, Stop: 85325, Start Num: 66
Candidate Starts for Constella_156:
(21, 84660), (Start: 66 @84801 has 2 MA's), (Start: 73 @84813 has 1 MA's), (89, 84864), (98, 84927), (110, 84972), (120, 85011), (129, 85044), (144, 85143), (148, 85164), (167, 85236), (174, 85260),

Gene: Constella_63 Start: 45933, Stop: 45571, Start Num: 83
Candidate Starts for Constella_63:
(Start: 83 @45933 has 98 MA's), (95, 45873), (96, 45870), (105, 45837), (141, 45663),

Gene: Contagion_41 Start: 34707, Stop: 34342, Start Num: 83
Candidate Starts for Contagion_41:
(Start: 78 @34722 has 1 MA's), (Start: 83 @34707 has 98 MA's), (114, 34572), (123, 34548), (127, 34524), (136, 34461),

Gene: Cookies_41 Start: 35072, Stop: 34707, Start Num: 83
Candidate Starts for Cookies_41:
(Start: 78 @35087 has 1 MA's), (Start: 83 @35072 has 98 MA's), (114, 34937), (123, 34913), (127, 34889), (136, 34826),

Gene: Corazon_10 Start: 3482, Stop: 3889, Start Num: 83
Candidate Starts for Corazon_10:
(Start: 83 @3482 has 98 MA's), (Start: 88 @3494 has 2 MA's), (114, 3620), (123, 3644), (127, 3668), (133, 3701), (171, 3866),

Gene: CrystalP_43 Start: 35832, Stop: 35344, Start Num: 82

Candidate Starts for CrystalP_43:

(Start: 82 @35832 has 60 MA's), (Start: 88 @35820 has 2 MA's), (100, 35757), (111, 35742), (119, 35715), (122, 35709), (132, 35664), (134, 35652), (140, 35610), (170, 35508), (190, 35364),

Gene: Cueylyss_40 Start: 32157, Stop: 31795, Start Num: 58

Candidate Starts for Cueylyss_40:

(19, 32295), (26, 32262), (Start: 58 @32157 has 11 MA's), (134, 31914), (136, 31893), (137, 31887), (138, 31884),

Gene: Czyszczone1_44 Start: 35291, Stop: 34887, Start Num: 83

Candidate Starts for Czyszczone1_44:

(Start: 83 @35291 has 98 MA's), (114, 35156), (123, 35132), (127, 35108), (135, 35063), (163, 34940),

Gene: DTDevon_9 Start: 2817, Stop: 3251, Start Num: 83

Candidate Starts for DTDevon_9:

(49, 2760), (Start: 83 @2817 has 98 MA's), (102, 2892), (108, 2907), (115, 2934), (118, 2940), (132, 2985), (134, 2997), (144, 3048), (146, 3051), (151, 3081), (161, 3123),

Gene: Dallas_71 Start: 49496, Stop: 49131, Start Num: 82

Candidate Starts for Dallas_71:

(Start: 82 @49496 has 60 MA's), (92, 49454), (123, 49358), (135, 49289), (142, 49250),

Gene: Dandelion_10 Start: 3168, Stop: 3599, Start Num: 83

Candidate Starts for Dandelion_10:

(33, 3063), (39, 3084), (42, 3090), (Start: 83 @3168 has 98 MA's), (102, 3243), (108, 3258), (115, 3285), (118, 3291), (132, 3336), (134, 3348), (144, 3399), (146, 3402), (151, 3432), (161, 3474),

Gene: Dante_84 Start: 51687, Stop: 51980, Start Num: 83

Candidate Starts for Dante_84:

(Start: 63 @51639 has 1 MA's), (67, 51645), (Start: 83 @51687 has 98 MA's), (115, 51831), (125, 51864),

Gene: Demodog_7 Start: 2242, Stop: 2598, Start Num: 102

Candidate Starts for Demodog_7:

(29, 2038), (40, 2068), (50, 2095), (Start: 66 @2131 has 2 MA's), (Start: 80 @2155 has 6 MA's), (102, 2242), (108, 2257), (115, 2284), (118, 2290), (132, 2335), (134, 2347), (144, 2398), (146, 2401), (151, 2431), (161, 2473),

Gene: Demsculpinboyz_96 Start: 48718, Stop: 49200, Start Num: 83

Candidate Starts for Demsculpinboyz_96:

(68, 48679), (Start: 83 @48718 has 98 MA's), (Start: 88 @48730 has 2 MA's), (114, 48856), (123, 48880), (127, 48904), (132, 48934), (134, 48946), (150, 49018), (178, 49108),

Gene: Denise_59 Start: 37230, Stop: 37658, Start Num: 73

Candidate Starts for Denise_59:

(Start: 73 @37230 has 1 MA's), (97, 37338), (128, 37440), (130, 37449),

Gene: DmpstrDiver_72 Start: 49923, Stop: 49558, Start Num: 82

Candidate Starts for DmpstrDiver_72:

(Start: 82 @49923 has 60 MA's), (92, 49881), (123, 49785), (135, 49716), (142, 49677),

Gene: Donkeykong_89 Start: 51613, Stop: 52125, Start Num: 82

Candidate Starts for Donkeykong_89:

(Start: 82 @51613 has 60 MA's), (92, 51655), (134, 51817), (140, 51859), (170, 51961), (190, 52105),

Gene: Doom_40 Start: 32350, Stop: 31988, Start Num: 58

Candidate Starts for Doom_40:

(19, 32488), (26, 32455), (Start: 58 @32350 has 11 MA's), (134, 32107), (136, 32086), (137, 32080), (138, 32077),

Gene: DrDrey_44 Start: 36335, Stop: 35970, Start Num: 83

Candidate Starts for DrDrey_44:

(Start: 78 @36350 has 1 MA's), (Start: 83 @36335 has 98 MA's), (114, 36200), (123, 36176), (127, 36152), (135, 36107), (136, 36089),

Gene: Drazdys_9 Start: 2817, Stop: 3251, Start Num: 83

Candidate Starts for Drazdys_9:

(49, 2760), (Start: 83 @2817 has 98 MA's), (102, 2892), (108, 2907), (115, 2934), (118, 2940), (132, 2985), (134, 2997), (144, 3048), (146, 3051), (151, 3081), (161, 3123),

Gene: Duke13_79 Start: 51559, Stop: 51152, Start Num: 82

Candidate Starts for Duke13_79:

(Start: 82 @51559 has 60 MA's), (92, 51517), (123, 51421), (126, 51400), (132, 51367), (134, 51355), (139, 51322), (172, 51214),

Gene: Ejimix_72 Start: 51361, Stop: 50996, Start Num: 82

Candidate Starts for Ejimix_72:

(Start: 82 @51361 has 60 MA's), (92, 51319), (123, 51223), (135, 51154), (142, 51115),

Gene: EleanorGeorge_87 Start: 51109, Stop: 51492, Start Num: 82

Candidate Starts for EleanorGeorge_87:

(71, 51076), (Start: 82 @51109 has 60 MA's), (112, 51220), (114, 51229), (132, 51301), (134, 51313), (179, 51439),

Gene: Elph10_43 Start: 34783, Stop: 34379, Start Num: 83

Candidate Starts for Elph10_43:

(Start: 83 @34783 has 98 MA's), (114, 34648), (123, 34624), (127, 34600), (135, 34555), (163, 34432),

Gene: Estave1_94 Start: 53968, Stop: 54324, Start Num: 82

Candidate Starts for Estave1_94:

(Start: 82 @53968 has 60 MA's), (152, 54220),

Gene: Eyeball_40 Start: 31827, Stop: 31465, Start Num: 58

Candidate Starts for Eyeball_40:

(19, 31965), (26, 31932), (Start: 58 @31827 has 11 MA's), (134, 31584), (136, 31563), (137, 31557), (138, 31554),

Gene: FairyPath_41 Start: 35211, Stop: 34846, Start Num: 82

Candidate Starts for FairyPath_41:

(Start: 82 @35211 has 60 MA's), (92, 35169), (123, 35073), (135, 35004), (142, 34965),

Gene: Fajezeel_62 Start: 40619, Stop: 40254, Start Num: 83

Candidate Starts for Fajezeel_62:

(18, 40820), (60, 40676), (62, 40673), (Start: 83 @40619 has 98 MA's), (111, 40502), (114, 40484), (123, 40460), (127, 40436), (135, 40391),

Gene: Fancypants_93 Start: 52418, Stop: 52996, Start Num: 48

Candidate Starts for Fancypants_93:

(Start: 48 @52418 has 5 MA's), (Start: 85 @52508 has 1 MA's), (99, 52571), (109, 52595), (132, 52679), (134, 52691), (144, 52742), (146, 52745), (151, 52775), (161, 52817), (187, 52943),

Gene: Farewell_69 Start: 47142, Stop: 47591, Start Num: 48

Candidate Starts for Farewell_69:

(22, 47049), (36, 47109), (44, 47133), (Start: 48 @47142 has 5 MA's), (61, 47178), (Start: 82 @47235 has 60 MA's), (133, 47406), (136, 47436), (137, 47442), (138, 47445), (139, 47448), (158, 47520), (165, 47553),

Gene: FeliMaine_11 Start: 3530, Stop: 3937, Start Num: 83

Candidate Starts for FeliMaine_11:

(Start: 83 @3530 has 98 MA's), (Start: 88 @3542 has 2 MA's), (114, 3668), (123, 3692), (127, 3716), (133, 3749), (171, 3914),

Gene: Filch_44 Start: 35012, Stop: 34647, Start Num: 83

Candidate Starts for Filch_44:

(Start: 83 @35012 has 98 MA's), (114, 34877), (123, 34853), (127, 34829), (136, 34766),

Gene: Flathead_79 Start: 48157, Stop: 48534, Start Num: 83

Candidate Starts for Flathead_79:

(81, 48154), (Start: 83 @48157 has 98 MA's), (92, 48199), (114, 48304), (123, 48328), (127, 48352), (136, 48415),

Gene: FrayBell_10 Start: 2978, Stop: 3421, Start Num: 80

Candidate Starts for FrayBell_10:

(29, 2861), (40, 2891), (50, 2918), (Start: 66 @2954 has 2 MA's), (Start: 80 @2978 has 6 MA's), (102, 3065), (108, 3080), (115, 3107), (118, 3113), (132, 3158), (134, 3170), (144, 3221), (146, 3224), (151, 3254), (161, 3296),

Gene: Fringe_55 Start: 47885, Stop: 47511, Start Num: 79

Candidate Starts for Fringe_55:

(Start: 79 @47885 has 3 MA's), (114, 47735), (123, 47711), (127, 47687), (133, 47654), (148, 47573),

Gene: Froghopper_59 Start: 39967, Stop: 39602, Start Num: 83

Candidate Starts for Froghopper_59:

(18, 40168), (60, 40024), (62, 40021), (Start: 83 @39967 has 98 MA's), (111, 39850), (114, 39832), (123, 39808), (127, 39784), (135, 39739),

Gene: Fruitloop_76 Start: 48252, Stop: 48602, Start Num: 83

Candidate Starts for Fruitloop_76:

(72, 48216), (Start: 83 @48252 has 98 MA's), (114, 48387), (123, 48411), (127, 48435), (133, 48468),

Gene: Galactic_79 Start: 48078, Stop: 48443, Start Num: 83

Candidate Starts for Galactic_79:

(6, 47778), (7, 47787), (8, 47793), (10, 47802), (12, 47832), (72, 48042), (Start: 83 @48078 has 98 MA's), (114, 48213), (123, 48237), (127, 48261), (135, 48306), (136, 48324),

Gene: Graduation_42 Start: 32744, Stop: 32382, Start Num: 58

Candidate Starts for Graduation_42:

(19, 32882), (26, 32849), (Start: 58 @32744 has 11 MA's), (134, 32501), (136, 32480), (137, 32474), (138, 32471),

Gene: GreaseLightnin_58 Start: 38269, Stop: 38631, Start Num: 83

Candidate Starts for GreaseLightnin_58:

(11, 38008), (14, 38041), (17, 38065), (20, 38071), (62, 38212), (Start: 83 @38269 has 98 MA's), (102, 38344), (108, 38359), (115, 38386), (118, 38392), (132, 38437), (134, 38449), (175, 38608),

Gene: Greg_62 Start: 40619, Stop: 40254, Start Num: 83

Candidate Starts for Greg_62:

(18, 40820), (60, 40676), (62, 40673), (Start: 83 @40619 has 98 MA's), (111, 40502), (114, 40484), (123, 40460), (127, 40436), (135, 40391),

Gene: Grimmer_91 Start: 49019, Stop: 49426, Start Num: 83

Candidate Starts for Grimmer_91:

(Start: 83 @49019 has 98 MA's), (Start: 88 @49031 has 2 MA's), (90, 49040), (114, 49157), (123, 49181), (127, 49205), (133, 49238), (147, 49310),

Gene: Halley_74 Start: 50575, Stop: 50210, Start Num: 82

Candidate Starts for Halley_74:

(Start: 82 @50575 has 60 MA's), (92, 50533), (123, 50437), (135, 50368), (142, 50329),

Gene: HanKaySha_43 Start: 34995, Stop: 34630, Start Num: 83

Candidate Starts for HanKaySha_43:

(Start: 78 @35010 has 1 MA's), (Start: 83 @34995 has 98 MA's), (114, 34860), (123, 34836), (127, 34812), (135, 34767), (136, 34749),

Gene: Hannaconda_69 Start: 45759, Stop: 45247, Start Num: 82

Candidate Starts for Hannaconda_69:

(Start: 82 @45759 has 60 MA's), (92, 45717), (134, 45555), (140, 45513), (170, 45411), (190, 45267),

Gene: Harley_91 Start: 51213, Stop: 51740, Start Num: 83

Candidate Starts for Harley_91:

(68, 51174), (Start: 83 @51213 has 98 MA's), (114, 51351), (123, 51375), (127, 51399), (132, 51429), (134, 51441), (139, 51474), (156, 51537), (175, 51615), (179, 51630),

Gene: HokkenD_65 Start: 48844, Stop: 48479, Start Num: 82

Candidate Starts for HokkenD_65:

(Start: 82 @48844 has 60 MA's), (92, 48802), (123, 48706), (135, 48637), (142, 48598),

Gene: Hopey_44 Start: 35530, Stop: 35165, Start Num: 83

Candidate Starts for Hopey_44:

(Start: 78 @35545 has 1 MA's), (Start: 83 @35530 has 98 MA's), (114, 35395), (123, 35371), (127, 35347), (135, 35302), (136, 35284),

Gene: Hughesyang_71 Start: 50504, Stop: 50139, Start Num: 82

Candidate Starts for Hughesyang_71:

(Start: 82 @50504 has 60 MA's), (92, 50462), (123, 50366), (135, 50297), (142, 50258),

Gene: Huphlepuuff_11 Start: 3259, Stop: 3666, Start Num: 83

Candidate Starts for Huphlepuuff_11:

(Start: 83 @3259 has 98 MA's), (Start: 88 @3271 has 2 MA's), (114, 3397), (123, 3421), (127, 3445), (133, 3478), (171, 3643),

Gene: I3_8 Start: 2847, Stop: 3332, Start Num: 52

Candidate Starts for I3_8:

(30, 2790), (43, 2823), (Start: 52 @2847 has 3 MA's), (91, 2940), (108, 2988), (113, 3006), (114, 3012), (134, 3078), (144, 3129), (146, 3132), (151, 3162), (161, 3204),

Gene: IHOP_41 Start: 35396, Stop: 34908, Start Num: 82

Candidate Starts for IHOP_41:

(Start: 82 @35396 has 60 MA's), (Start: 88 @35384 has 2 MA's), (100, 35321), (111, 35306), (119, 35279), (122, 35273), (132, 35228), (134, 35216), (140, 35174), (170, 35072), (190, 34928),

Gene: ILeeKay_42 Start: 32194, Stop: 31832, Start Num: 58

Candidate Starts for ILeeKay_42:

(19, 32332), (26, 32299), (Start: 58 @32194 has 11 MA's), (134, 31951), (136, 31930), (137, 31924), (138, 31921),

Gene: lbhubesi_81 Start: 47329, Stop: 47838, Start Num: 82

Candidate Starts for lbhubesi_81:

(Start: 82 @47329 has 60 MA's), (103, 47413), (107, 47422), (116, 47458), (134, 47539), (139, 47572), (160, 47635), (180, 47713), (183, 47728),

Gene: Inca_40 Start: 33921, Stop: 33433, Start Num: 82

Candidate Starts for Inca_40:

(Start: 82 @33921 has 60 MA's), (Start: 88 @33909 has 2 MA's), (100, 33846), (111, 33831), (119, 33804), (122, 33798), (132, 33753), (134, 33741), (140, 33699), (170, 33597), (190, 33453),

Gene: InterFolia_10 Start: 2977, Stop: 3420, Start Num: 80

Candidate Starts for InterFolia_10:

(29, 2860), (40, 2890), (50, 2917), (Start: 66 @2953 has 2 MA's), (Start: 80 @2977 has 6 MA's), (102, 3064), (108, 3079), (115, 3106), (118, 3112), (132, 3157), (134, 3169), (144, 3220), (146, 3223), (151, 3253), (161, 3295),

Gene: Jabbawokkie_90 Start: 47440, Stop: 47808, Start Num: 83

Candidate Starts for Jabbawokkie_90:

(72, 47404), (Start: 83 @47440 has 98 MA's), (114, 47575), (123, 47599), (127, 47623), (135, 47668), (136, 47686), (155, 47734),

Gene: JayJay_8 Start: 2506, Stop: 2949, Start Num: 80

Candidate Starts for JayJay_8:

(29, 2389), (40, 2419), (50, 2446), (Start: 66 @2482 has 2 MA's), (Start: 80 @2506 has 6 MA's), (102, 2593), (108, 2608), (115, 2635), (118, 2641), (132, 2686), (134, 2698), (144, 2749), (146, 2752), (151, 2782), (161, 2824),

Gene: JeTaime_44 Start: 36054, Stop: 35689, Start Num: 83

Candidate Starts for JeTaime_44:

(Start: 83 @36054 has 98 MA's), (114, 35919), (123, 35895), (127, 35871), (136, 35808),

Gene: Jezreel_7 Start: 2223, Stop: 2579, Start Num: 102

Candidate Starts for Jezreel_7:

(49, 2091), (Start: 83 @2148 has 98 MA's), (102, 2223), (108, 2238), (115, 2265), (118, 2271), (132, 2316), (134, 2328), (144, 2379), (146, 2382), (151, 2412), (161, 2454),

Gene: JigglyPuff_8 Start: 2522, Stop: 2965, Start Num: 80

Candidate Starts for JigglyPuff_8:

(29, 2405), (40, 2435), (50, 2462), (Start: 66 @2498 has 2 MA's), (Start: 80 @2522 has 6 MA's), (102, 2609), (108, 2624), (115, 2651), (118, 2657), (132, 2702), (134, 2714), (144, 2765), (146, 2768), (151, 2798), (161, 2840),

Gene: JoieB_11 Start: 3478, Stop: 3885, Start Num: 83

Candidate Starts for JoieB_11:

(Start: 83 @3478 has 98 MA's), (Start: 88 @3490 has 2 MA's), (114, 3616), (123, 3640), (127, 3664), (133, 3697), (171, 3862),

Gene: JuicyJay_71 Start: 51709, Stop: 51344, Start Num: 82

Candidate Starts for JuicyJay_71:

(Start: 82 @51709 has 60 MA's), (92, 51667), (123, 51571), (135, 51502), (142, 51463),

Gene: Juniormint_57 Start: 37791, Stop: 38165, Start Num: 78

Candidate Starts for Juniormint_57:

(Start: 78 @37791 has 1 MA's), (102, 37878), (108, 37893), (115, 37920), (118, 37926), (132, 37971), (134, 37983), (175, 38142),

Gene: KBG_41 Start: 33134, Stop: 32772, Start Num: 58

Candidate Starts for KBG_41:

(26, 33239), (Start: 58 @33134 has 11 MA's), (134, 32891), (136, 32870), (137, 32864), (138, 32861),

Gene: Kalah2_67 Start: 49868, Stop: 49503, Start Num: 82

Candidate Starts for Kalah2_67:

(Start: 82 @49868 has 60 MA's), (92, 49826), (123, 49730), (135, 49661), (142, 49622),

Gene: Kamryn_7 Start: 2148, Stop: 2579, Start Num: 83

Candidate Starts for Kamryn_7:

(49, 2091), (Start: 83 @2148 has 98 MA's), (102, 2223), (108, 2238), (115, 2265), (118, 2271), (132, 2316), (134, 2328), (144, 2379), (146, 2382), (151, 2412), (161, 2454),

Gene: KashFlow_67 Start: 45630, Stop: 45118, Start Num: 82

Candidate Starts for KashFlow_67:

(Start: 82 @45630 has 60 MA's), (92, 45588), (132, 45438), (134, 45426), (140, 45384), (170, 45282), (190, 45138),

Gene: Kenuha5_78 Start: 49646, Stop: 50158, Start Num: 82

Candidate Starts for Kenuha5_78:

(Start: 82 @49646 has 60 MA's), (134, 49850), (140, 49892), (170, 49994), (190, 50138),

Gene: Kersh_90 Start: 52725, Stop: 53210, Start Num: 83

Candidate Starts for Kersh_90:

(28, 52599), (65, 52695), (Start: 83 @52725 has 98 MA's), (Start: 88 @52737 has 2 MA's), (102, 52800), (108, 52815), (115, 52842), (118, 52848), (132, 52893), (134, 52905), (144, 52956), (146, 52959), (151, 52989), (161, 53031), (187, 53157),

Gene: Klein_72 Start: 49891, Stop: 49526, Start Num: 82

Candidate Starts for Klein_72:

(Start: 82 @49891 has 60 MA's), (92, 49849), (123, 49753), (135, 49684), (142, 49645),

Gene: Koella_77 Start: 46451, Stop: 46915, Start Num: 82

Candidate Starts for Koella_77:

(Start: 82 @46451 has 60 MA's), (86, 46460), (112, 46562), (114, 46571), (132, 46643), (134, 46655), (140, 46697), (170, 46799),

Gene: Kumao_58 Start: 42552, Stop: 43010, Start Num: 45

Candidate Starts for Kumao_58:

(Start: 45 @42552 has 1 MA's), (47, 42555), (Start: 83 @42645 has 98 MA's), (114, 42780), (123, 42804), (127, 42828), (135, 42873), (136, 42891),

Gene: Latretium_80 Start: 47741, Stop: 48100, Start Num: 83

Candidate Starts for Latretium_80:

(Start: 83 @47741 has 98 MA's), (114, 47879), (117, 47888), (123, 47903), (127, 47927), (132, 47957), (134, 47969),

Gene: Latretium_87 Start: 49978, Stop: 50271, Start Num: 83

Candidate Starts for Latretium_87:

(Start: 63 @49930 has 1 MA's), (67, 49936), (Start: 83 @49978 has 98 MA's), (115, 50122), (125, 50155),

Gene: Latretium_83 Start: 48583, Stop: 48948, Start Num: 82

Candidate Starts for Latretium_83:

(Start: 82 @48583 has 60 MA's), (92, 48625), (123, 48721), (135, 48790), (142, 48829),

Gene: Lesedi_57 Start: 39252, Stop: 38887, Start Num: 83

Candidate Starts for Lesedi_57:

(18, 39453), (60, 39309), (62, 39306), (Start: 83 @39252 has 98 MA's), (111, 39135), (114, 39117), (123, 39093), (127, 39069), (135, 39024),

Gene: Lethe_7 Start: 2050, Stop: 2481, Start Num: 83

Candidate Starts for Lethe_7:

(1, 1606), (2, 1708), (3, 1711), (4, 1717), (5, 1726), (25, 1906), (41, 1969), (Start: 83 @2050 has 98 MA's), (102, 2125), (108, 2140), (115, 2167), (118, 2173), (132, 2218), (134, 2230), (144, 2281), (146, 2284), (151, 2314), (161, 2356),

Gene: Licorice_42 Start: 33025, Stop: 32663, Start Num: 58

Candidate Starts for Licorice_42:

(19, 33163), (26, 33130), (Start: 58 @33025 has 11 MA's), (134, 32782), (136, 32761), (137, 32755), (138, 32752),

Gene: LilMoolah_80 Start: 49043, Stop: 49381, Start Num: 83

Candidate Starts for LilMoolah_80:

(70, 49004), (Start: 83 @49043 has 98 MA's), (Start: 88 @49055 has 2 MA's), (103, 49127), (107, 49136), (116, 49172), (133, 49244),

Gene: Lilac_46 Start: 35189, Stop: 34785, Start Num: 83

Candidate Starts for Lilac_46:

(Start: 83 @35189 has 98 MA's), (114, 35054), (123, 35030), (127, 35006), (135, 34961), (163, 34838),

Gene: Lilbit_11 Start: 3530, Stop: 3937, Start Num: 83

Candidate Starts for Lilbit_11:

(Start: 83 @3530 has 98 MA's), (Start: 88 @3542 has 2 MA's), (114, 3668), (123, 3692), (127, 3716), (133, 3749), (171, 3914),

Gene: Lilizi_43 Start: 34863, Stop: 34459, Start Num: 83

Candidate Starts for Lilizi_43:

(Start: 83 @34863 has 98 MA's), (114, 34728), (123, 34704), (127, 34680), (135, 34635), (163, 34512),

Gene: LinStu_9 Start: 3505, Stop: 3948, Start Num: 80

Candidate Starts for LinStu_9:

(29, 3388), (40, 3418), (50, 3445), (Start: 66 @3481 has 2 MA's), (Start: 80 @3505 has 6 MA's), (102, 3592), (108, 3607), (115, 3634), (118, 3640), (132, 3685), (134, 3697), (144, 3748), (146, 3751), (151, 3781), (161, 3823),

Gene: LittleLaf_10 Start: 3259, Stop: 3666, Start Num: 83

Candidate Starts for LittleLaf_10:

(Start: 83 @3259 has 98 MA's), (Start: 88 @3271 has 2 MA's), (114, 3397), (123, 3421), (127, 3445), (133, 3478), (171, 3643),

Gene: LolaVinca_10 Start: 2977, Stop: 3399, Start Num: 80

Candidate Starts for LolaVinca_10:

(29, 2860), (40, 2890), (50, 2917), (Start: 66 @2953 has 2 MA's), (Start: 80 @2977 has 6 MA's), (102, 3064), (108, 3079), (115, 3106), (118, 3112), (132, 3157), (134, 3169), (144, 3220), (146, 3223), (151, 3253), (161, 3295), (173, 3334),

Gene: LordLeafolot_10 Start: 2977, Stop: 3420, Start Num: 80

Candidate Starts for LordLeafolot_10:

(29, 2860), (40, 2890), (50, 2917), (Start: 66 @2953 has 2 MA's), (Start: 80 @2977 has 6 MA's), (102, 3064), (108, 3079), (115, 3106), (118, 3112), (132, 3157), (134, 3169), (144, 3220), (146, 3223), (151, 3253), (161, 3295),

Gene: Lucky2013_70 Start: 46314, Stop: 45949, Start Num: 82

Candidate Starts for Lucky2013_70:

(Start: 82 @46314 has 60 MA's), (92, 46272), (123, 46176), (135, 46107), (142, 46068),

Gene: LunaBlu_89 Start: 51072, Stop: 51413, Start Num: 63

Candidate Starts for LunaBlu_89:

(Start: 63 @51072 has 1 MA's), (67, 51078), (Start: 83 @51120 has 98 MA's), (115, 51264), (125, 51297),

Gene: MadamMonkfish_42 Start: 34547, Stop: 34182, Start Num: 83

Candidate Starts for MadamMonkfish_42:

(68, 34586), (75, 34568), (Start: 83 @34547 has 98 MA's), (114, 34412), (123, 34388), (127, 34364), (135, 34319), (136, 34301),

Gene: Mahavrat_77 Start: 46587, Stop: 46994, Start Num: 83

Candidate Starts for Mahavrat_77:

(Start: 83 @46587 has 98 MA's), (Start: 88 @46599 has 2 MA's), (90, 46608), (114, 46725), (123, 46749), (127, 46773), (133, 46806), (147, 46878),

Gene: Marker_83 Start: 48420, Stop: 48782, Start Num: 83

Candidate Starts for Marker_83:

(Start: 83 @48420 has 98 MA's), (95, 48480), (96, 48483), (105, 48516), (141, 48690),

Gene: Marshmallow_42 Start: 35818, Stop: 35342, Start Num: 88

Candidate Starts for Marshmallow_42:

(Start: 82 @35830 has 60 MA's), (Start: 88 @35818 has 2 MA's), (100, 35755), (111, 35740), (119, 35713), (122, 35707), (132, 35662), (134, 35650), (140, 35608), (170, 35506), (190, 35362),

Gene: Martik_82 Start: 51049, Stop: 51432, Start Num: 82

Candidate Starts for Martik_82:

(46, 50959), (51, 50974), (71, 51016), (Start: 82 @51049 has 60 MA's), (112, 51160), (114, 51169), (132, 51241), (134, 51253), (179, 51379),

Gene: Marvin_9 Start: 3241, Stop: 3600, Start Num: 82

Candidate Starts for Marvin_9:

(Start: 82 @3241 has 60 MA's), (Start: 88 @3253 has 2 MA's), (100, 3316), (111, 3331), (119, 3358), (122, 3364), (132, 3409), (134, 3421),

Gene: Maxxinista_45 Start: 35159, Stop: 34755, Start Num: 83

Candidate Starts for Maxxinista_45:

(Start: 83 @35159 has 98 MA's), (114, 35024), (123, 35000), (127, 34976), (135, 34931), (163, 34808),

Gene: MiaZeal_73 Start: 46970, Stop: 46605, Start Num: 82

Candidate Starts for MiaZeal_73:

(Start: 82 @46970 has 60 MA's), (92, 46928), (123, 46832), (135, 46763), (142, 46724),

Gene: Mikro_7 Start: 3147, Stop: 3578, Start Num: 83

Candidate Starts for Mikro_7:

(49, 3090), (Start: 83 @3147 has 98 MA's), (102, 3222), (108, 3237), (115, 3264), (118, 3270), (132, 3315), (134, 3327), (144, 3378), (146, 3381), (151, 3411), (161, 3453),

Gene: Minerva_78 Start: 51991, Stop: 51626, Start Num: 82

Candidate Starts for Minerva_78:

(Start: 82 @51991 has 60 MA's), (92, 51949), (123, 51853), (135, 51784), (142, 51745),

Gene: MinionDave_78 Start: 48768, Stop: 49100, Start Num: 82

Candidate Starts for MinionDave_78:

(Start: 82 @48768 has 60 MA's), (92, 48810), (123, 48906), (133, 48963),

Gene: Miniwave_41 Start: 35246, Stop: 34860, Start Num: 83

Candidate Starts for Miniwave_41:

(Start: 78 @35261 has 1 MA's), (Start: 83 @35246 has 98 MA's), (114, 35111), (123, 35087), (127, 35063), (135, 35018), (140, 34979),

Gene: MoMoMixon_7 Start: 2383, Stop: 2814, Start Num: 83

Candidate Starts for MoMoMixon_7:

(Start: 58 @2347 has 11 MA's), (Start: 83 @2383 has 98 MA's), (102, 2458), (108, 2473), (115, 2500), (118, 2506), (132, 2551), (134, 2563), (144, 2614), (146, 2617), (151, 2647), (161, 2689),

Gene: Moldemort_42 Start: 34776, Stop: 34411, Start Num: 83

Candidate Starts for Moldemort_42:

(68, 34815), (75, 34797), (Start: 83 @34776 has 98 MA's), (114, 34641), (123, 34617), (127, 34593), (135, 34548), (136, 34530),

Gene: Moonbeam_89 Start: 51150, Stop: 51629, Start Num: 85

Candidate Starts for Moonbeam_89:

(Start: 85 @51150 has 1 MA's), (Start: 87 @51153 has 1 MA's), (104, 51222), (108, 51234), (115, 51261), (118, 51267), (132, 51312), (134, 51324), (144, 51375), (146, 51378), (151, 51408), (161, 51450), (187, 51576),

Gene: Mosby_40 Start: 34707, Stop: 34342, Start Num: 83

Candidate Starts for Mosby_40:

(Start: 78 @34722 has 1 MA's), (Start: 83 @34707 has 98 MA's), (114, 34572), (123, 34548), (127, 34524), (136, 34461),

Gene: MrGordo_62 Start: 40946, Stop: 40590, Start Num: 83

Candidate Starts for MrGordo_62:

(Start: 83 @40946 has 98 MA's), (Start: 88 @40934 has 2 MA's), (114, 40808), (117, 40799), (123, 40784), (127, 40760), (132, 40730), (134, 40718),

Gene: Murphy_45 Start: 35671, Stop: 35267, Start Num: 83

Candidate Starts for Murphy_45:

(Start: 83 @35671 has 98 MA's), (114, 35536), (123, 35512), (127, 35488), (135, 35443), (163, 35320),

Gene: Myrale_43 Start: 35695, Stop: 35207, Start Num: 82

Candidate Starts for Myrale_43:

(Start: 82 @35695 has 60 MA's), (Start: 88 @35683 has 2 MA's), (100, 35620), (111, 35605), (119, 35578), (122, 35572), (132, 35527), (134, 35515), (140, 35473), (170, 35371), (190, 35227),

Gene: Naval22_7 Start: 2458, Stop: 2814, Start Num: 102

Candidate Starts for Naval22_7:

(Start: 58 @2347 has 11 MA's), (Start: 83 @2383 has 98 MA's), (102, 2458), (108, 2473), (115, 2500), (118, 2506), (132, 2551), (134, 2563), (144, 2614), (146, 2617), (151, 2647), (161, 2689),

Gene: Nidhogg_7 Start: 2383, Stop: 2814, Start Num: 83

Candidate Starts for Nidhogg_7:

(Start: 58 @2347 has 11 MA's), (Start: 83 @2383 has 98 MA's), (102, 2458), (108, 2473), (115, 2500), (118, 2506), (132, 2551), (134, 2563), (144, 2614), (146, 2617), (151, 2647), (161, 2689),

Gene: NihilNomen_73 Start: 50662, Stop: 50297, Start Num: 82

Candidate Starts for NihilNomen_73:

(Start: 82 @50662 has 60 MA's), (92, 50620), (123, 50524), (135, 50455), (142, 50416),

Gene: Nivrat_78 Start: 48916, Stop: 49254, Start Num: 83

Candidate Starts for Nivrat_78:

(70, 48877), (Start: 83 @48916 has 98 MA's), (Start: 88 @48928 has 2 MA's), (103, 49000), (107, 49009), (116, 49045), (133, 49117),

Gene: NoSleep_45 Start: 35431, Stop: 35027, Start Num: 83

Candidate Starts for NoSleep_45:

(Start: 83 @35431 has 98 MA's), (114, 35296), (123, 35272), (127, 35248), (135, 35203), (163, 35080),

Gene: NoodleTree_7 Start: 2148, Stop: 2579, Start Num: 83

Candidate Starts for NoodleTree_7:

(49, 2091), (Start: 83 @2148 has 98 MA's), (102, 2223), (108, 2238), (115, 2265), (118, 2271), (132, 2316), (134, 2328), (144, 2379), (146, 2382), (151, 2412), (161, 2454),

Gene: NormanBulbieJr_83 Start: 50465, Stop: 50929, Start Num: 82

Candidate Starts for NormanBulbieJr_83:

(Start: 82 @50465 has 60 MA's), (86, 50474), (112, 50576), (114, 50585), (132, 50657), (134, 50669), (140, 50711), (170, 50813),

Gene: NuevoMundo_9 Start: 2841, Stop: 3272, Start Num: 83

Candidate Starts for NuevoMundo_9:
(33, 2736), (39, 2757), (42, 2763), (Start: 83 @2841 has 98 MA's), (102, 2916), (108, 2931), (115, 2958), (118, 2964), (132, 3009), (134, 3021), (144, 3072), (146, 3075), (151, 3105), (161, 3147),

Gene: Odette_71 Start: 49705, Stop: 49340, Start Num: 82
Candidate Starts for Odette_71:
(Start: 82 @49705 has 60 MA's), (92, 49663), (123, 49567), (135, 49498), (142, 49459),

Gene: OrionPax_43 Start: 35001, Stop: 34636, Start Num: 83
Candidate Starts for OrionPax_43:
(Start: 83 @35001 has 98 MA's), (114, 34866), (123, 34842), (127, 34818), (136, 34755),

Gene: Phaja_41 Start: 35395, Stop: 34907, Start Num: 82
Candidate Starts for Phaja_41:
(Start: 82 @35395 has 60 MA's), (Start: 88 @35383 has 2 MA's), (100, 35320), (111, 35305), (119, 35278), (122, 35272), (132, 35227), (134, 35215), (140, 35173), (170, 35071), (190, 34927),

Gene: Phatniss_83 Start: 49365, Stop: 49781, Start Num: 83
Candidate Starts for Phatniss_83:
(Start: 83 @49365 has 98 MA's), (103, 49449), (107, 49458), (116, 49494), (132, 49563), (134, 49575), (139, 49608), (168, 49707),

Gene: Phoebus_75 Start: 51844, Stop: 51479, Start Num: 82
Candidate Starts for Phoebus_75:
(Start: 82 @51844 has 60 MA's), (92, 51802), (123, 51706), (135, 51637), (142, 51598),

Gene: Phrux_42 Start: 34994, Stop: 34629, Start Num: 83
Candidate Starts for Phrux_42:
(Start: 78 @35009 has 1 MA's), (Start: 83 @34994 has 98 MA's), (114, 34859), (123, 34835), (127, 34811), (135, 34766), (136, 34748),

Gene: Pier_10 Start: 2844, Stop: 3275, Start Num: 83
Candidate Starts for Pier_10:
(33, 2739), (39, 2760), (42, 2766), (Start: 83 @2844 has 98 MA's), (102, 2919), (108, 2934), (115, 2961), (118, 2967), (132, 3012), (134, 3024), (144, 3075), (146, 3078), (151, 3108), (161, 3150),

Gene: Pinkcreek_11 Start: 4628, Stop: 5008, Start Num: 83
Candidate Starts for Pinkcreek_11:
(72, 4592), (Start: 83 @4628 has 98 MA's), (114, 4763), (123, 4787), (127, 4811), (133, 4844), (153, 4904), (154, 4907), (164, 4937),

Gene: Pio_8 Start: 2537, Stop: 2968, Start Num: 83
Candidate Starts for Pio_8:
(Start: 58 @2501 has 11 MA's), (Start: 83 @2537 has 98 MA's), (102, 2612), (108, 2627), (115, 2654), (118, 2660), (132, 2705), (134, 2717), (144, 2768), (146, 2771), (151, 2801), (161, 2843),

Gene: Pollywog_88 Start: 51599, Stop: 52084, Start Num: 83
Candidate Starts for Pollywog_88:
(61, 51560), (Start: 83 @51599 has 98 MA's), (Start: 88 @51611 has 2 MA's), (102, 51674), (108, 51689), (115, 51716), (118, 51722), (132, 51767), (134, 51779), (144, 51830), (146, 51833), (151, 51863), (161, 51905), (187, 52031),

Gene: Porcelain_72 Start: 46970, Stop: 46605, Start Num: 82

Candidate Starts for Porcelain_72:

(Start: 82 @46970 has 60 MA's), (92, 46928), (123, 46832), (135, 46763), (142, 46724),

Gene: Pringar_10 Start: 3084, Stop: 3491, Start Num: 83

Candidate Starts for Pringar_10:

(Start: 83 @3084 has 98 MA's), (Start: 88 @3096 has 2 MA's), (114, 3222), (123, 3246), (127, 3270), (133, 3303), (171, 3468),

Gene: Priscilla_85 Start: 50563, Stop: 51027, Start Num: 82

Candidate Starts for Priscilla_85:

(Start: 82 @50563 has 60 MA's), (86, 50572), (112, 50674), (114, 50683), (132, 50755), (134, 50767), (140, 50809), (170, 50911),

Gene: Pumpkin_45 Start: 35920, Stop: 35555, Start Num: 83

Candidate Starts for Pumpkin_45:

(Start: 83 @35920 has 98 MA's), (114, 35785), (123, 35761), (127, 35737), (136, 35674),

Gene: Quallification_42 Start: 35222, Stop: 34857, Start Num: 82

Candidate Starts for Quallification_42:

(Start: 82 @35222 has 60 MA's), (92, 35180), (123, 35084), (135, 35015), (142, 34976),

Gene: RedRaider77_11 Start: 3531, Stop: 3950, Start Num: 79

Candidate Starts for RedRaider77_11:

(Start: 79 @3531 has 3 MA's), (114, 3681), (123, 3705), (127, 3729), (131, 3756), (132, 3759),

Gene: Redno2_69 Start: 47458, Stop: 47093, Start Num: 82

Candidate Starts for Redno2_69:

(Start: 82 @47458 has 60 MA's), (92, 47416), (123, 47320), (135, 47251), (142, 47212),

Gene: Rialto_92 Start: 51249, Stop: 51725, Start Num: 87

Candidate Starts for Rialto_92:

(Start: 85 @51246 has 1 MA's), (Start: 87 @51249 has 1 MA's), (104, 51318), (108, 51330), (115, 51357), (118, 51363), (132, 51408), (134, 51420), (144, 51471), (146, 51474), (151, 51504), (161, 51546), (187, 51672),

Gene: Rimmer_42 Start: 34931, Stop: 34563, Start Num: 83

Candidate Starts for Rimmer_42:

(Start: 83 @34931 has 98 MA's), (Start: 88 @34919 has 2 MA's), (114, 34793), (123, 34769), (127, 34745), (136, 34682),

Gene: RiverMonster_44 Start: 35447, Stop: 35043, Start Num: 83

Candidate Starts for RiverMonster_44:

(Start: 83 @35447 has 98 MA's), (114, 35312), (123, 35288), (127, 35264), (135, 35219), (163, 35096),

Gene: Ryadel_104 Start: 63381, Stop: 62932, Start Num: 52

Candidate Starts for Ryadel_104:

(32, 63432), (Start: 52 @63381 has 3 MA's), (55, 63369), (Start: 85 @63303 has 1 MA's), (99, 63240), (109, 63216), (132, 63132), (134, 63120), (141, 63087), (182, 62937),

Gene: SG4_79 Start: 48739, Stop: 49107, Start Num: 83

Candidate Starts for SG4_79:

(Start: 73 @48706 has 1 MA's), (Start: 83 @48739 has 98 MA's), (114, 48877), (117, 48886), (123, 48901), (127, 48925), (136, 48988),

Gene: Sabbb_90 Start: 48794, Stop: 49228, Start Num: 83

Candidate Starts for Sabbb_90:

(61, 48755), (Start: 83 @48794 has 98 MA's), (Start: 88 @48806 has 2 MA's), (102, 48869), (108, 48884), (115, 48911), (118, 48917), (132, 48962), (134, 48974), (144, 49025), (146, 49028), (151, 49058), (161, 49100),

Gene: Sauce_7 Start: 2387, Stop: 2818, Start Num: 83

Candidate Starts for Sauce_7:

(Start: 58 @2351 has 11 MA's), (Start: 83 @2387 has 98 MA's), (102, 2462), (108, 2477), (115, 2504), (118, 2510), (132, 2555), (134, 2567), (144, 2618), (146, 2621), (151, 2651), (161, 2693),

Gene: Schatzie_67 Start: 49452, Stop: 49087, Start Num: 82

Candidate Starts for Schatzie_67:

(Start: 82 @49452 has 60 MA's), (92, 49410), (123, 49314), (135, 49245), (142, 49206),

Gene: Sebata_9 Start: 3505, Stop: 3948, Start Num: 80

Candidate Starts for Sebata_9:

(29, 3388), (40, 3418), (50, 3445), (Start: 66 @3481 has 2 MA's), (Start: 80 @3505 has 6 MA's), (102, 3592), (108, 3607), (115, 3634), (118, 3640), (132, 3685), (134, 3697), (144, 3748), (146, 3751), (151, 3781), (161, 3823),

Gene: ShamWow_43 Start: 35832, Stop: 35344, Start Num: 82

Candidate Starts for ShamWow_43:

(Start: 82 @35832 has 60 MA's), (Start: 88 @35820 has 2 MA's), (100, 35757), (111, 35742), (119, 35715), (122, 35709), (132, 35664), (134, 35652), (140, 35610), (170, 35508), (190, 35364),

Gene: Shauna1_82 Start: 49932, Stop: 50444, Start Num: 82

Candidate Starts for Shauna1_82:

(Start: 82 @49932 has 60 MA's), (132, 50124), (134, 50136), (140, 50178), (170, 50280), (190, 50424),

Gene: ShereKhan_42 Start: 35964, Stop: 35599, Start Num: 83

Candidate Starts for ShereKhan_42:

(Start: 78 @35979 has 1 MA's), (Start: 83 @35964 has 98 MA's), (114, 35829), (123, 35805), (127, 35781), (135, 35736), (136, 35718),

Gene: ShowerHandel_83 Start: 48976, Stop: 49359, Start Num: 82

Candidate Starts for ShowerHandel_83:

(Start: 82 @48976 has 60 MA's), (86, 48985), (112, 49087), (114, 49096), (132, 49168), (134, 49180), (179, 49306),

Gene: Silvafighter_56 Start: 36170, Stop: 36607, Start Num: 48

Candidate Starts for Silvafighter_56:

(Start: 48 @36170 has 5 MA's), (61, 36206), (Start: 82 @36260 has 60 MA's), (92, 36302), (101, 36323), (121, 36374), (152, 36503), (161, 36545),

Gene: SimranZ1_81 Start: 48125, Stop: 48592, Start Num: 83

Candidate Starts for SimranZ1_81:

(61, 48086), (Start: 83 @48125 has 98 MA's), (102, 48200), (108, 48215), (115, 48242), (118, 48248), (132, 48293), (134, 48305), (144, 48356), (146, 48359), (151, 48389), (184, 48503), (188, 48545),

Gene: Smairt_41 Start: 32245, Stop: 31883, Start Num: 58

Candidate Starts for Smairt_41:

(19, 32383), (26, 32350), (Start: 58 @32245 has 11 MA's), (134, 32002), (136, 31981), (137, 31975), (138, 31972),

Gene: Sparkdehlily_95 Start: 49514, Stop: 49996, Start Num: 84

Candidate Starts for Sparkdehlily_95:

(Start: 84 @49514 has 2 MA's), (Start: 85 @49517 has 1 MA's), (Start: 87 @49520 has 1 MA's), (104, 49589), (108, 49601), (115, 49628), (118, 49634), (132, 49679), (134, 49691), (144, 49742), (146, 49745), (151, 49775), (161, 49817), (187, 49943),

Gene: Specks_10 Start: 2977, Stop: 3420, Start Num: 80

Candidate Starts for Specks_10:

(29, 2860), (40, 2890), (50, 2917), (Start: 66 @2953 has 2 MA's), (Start: 80 @2977 has 6 MA's), (102, 3064), (108, 3079), (115, 3106), (118, 3112), (132, 3157), (134, 3169), (144, 3220), (146, 3223), (151, 3253), (161, 3295),

Gene: Spud_8 Start: 2537, Stop: 2968, Start Num: 83

Candidate Starts for Spud_8:

(Start: 58 @2501 has 11 MA's), (Start: 83 @2537 has 98 MA's), (102, 2612), (108, 2627), (115, 2654), (118, 2660), (132, 2705), (134, 2717), (144, 2768), (146, 2771), (151, 2801), (161, 2843),

Gene: Squint_73 Start: 47089, Stop: 46724, Start Num: 82

Candidate Starts for Squint_73:

(Start: 82 @47089 has 60 MA's), (92, 47047), (123, 46951), (135, 46882), (142, 46843),

Gene: Stark_45 Start: 35450, Stop: 35046, Start Num: 83

Candidate Starts for Stark_45:

(Start: 78 @35465 has 1 MA's), (Start: 83 @35450 has 98 MA's), (114, 35315), (123, 35291), (127, 35267), (135, 35222), (163, 35099),

Gene: StellaBean_41 Start: 35156, Stop: 34668, Start Num: 82

Candidate Starts for StellaBean_41:

(Start: 82 @35156 has 60 MA's), (Start: 88 @35144 has 2 MA's), (100, 35081), (111, 35066), (119, 35039), (122, 35033), (132, 34988), (134, 34976), (140, 34934), (170, 34832), (190, 34688),

Gene: StephanieG_9 Start: 2844, Stop: 3275, Start Num: 83

Candidate Starts for StephanieG_9:

(33, 2739), (39, 2760), (42, 2766), (Start: 83 @2844 has 98 MA's), (102, 2919), (108, 2934), (115, 2961), (118, 2967), (132, 3012), (134, 3024), (144, 3075), (146, 3078), (151, 3108), (161, 3150),

Gene: StevieRay_57 Start: 37992, Stop: 38351, Start Num: 83

Candidate Starts for StevieRay_57:

(11, 37731), (14, 37764), (17, 37788), (20, 37794), (62, 37935), (Start: 83 @37992 has 98 MA's), (102, 38067), (108, 38082), (115, 38109), (118, 38115), (132, 38160), (134, 38172), (175, 38328),

Gene: Suerte_55 Start: 39354, Stop: 39890, Start Num: 76

Candidate Starts for Suerte_55:

(16, 39168), (24, 39201), (54, 39300), (Start: 76 @39354 has 1 MA's), (Start: 80 @39366 has 6 MA's), (92, 39429), (133, 39597), (144, 39660), (158, 39711), (176, 39783), (185, 39825),

Gene: Sunshine924_64 Start: 40630, Stop: 40100, Start Num: 79

Candidate Starts for Sunshine924_64:

(Start: 79 @40630 has 3 MA's), (114, 40477), (123, 40453), (127, 40429), (133, 40396), (143, 40336), (145, 40333), (152, 40303), (181, 40189), (186, 40147), (189, 40120),

Gene: SuperGrey_83 Start: 51298, Stop: 51810, Start Num: 82
Candidate Starts for SuperGrey_83:
(Start: 82 @51298 has 60 MA's), (92, 51340), (134, 51502), (140, 51544), (170, 51646), (190, 51790),

Gene: Superphikiman_70 Start: 46180, Stop: 45815, Start Num: 82
Candidate Starts for Superphikiman_70:
(Start: 82 @46180 has 60 MA's), (92, 46138), (123, 46042), (135, 45973), (142, 45934),

Gene: TDanisky_96 Start: 49514, Stop: 49996, Start Num: 84
Candidate Starts for TDanisky_96:
(Start: 84 @49514 has 2 MA's), (Start: 85 @49517 has 1 MA's), (Start: 87 @49520 has 1 MA's), (104, 49589), (108, 49601), (115, 49628), (118, 49634), (132, 49679), (134, 49691), (144, 49742), (146, 49745), (151, 49775), (161, 49817), (187, 49943),

Gene: Tainan_10 Start: 2977, Stop: 3420, Start Num: 80
Candidate Starts for Tainan_10:
(29, 2860), (40, 2890), (50, 2917), (Start: 66 @2953 has 2 MA's), (Start: 80 @2977 has 6 MA's), (102, 3064), (108, 3079), (115, 3106), (118, 3112), (132, 3157), (134, 3169), (144, 3220), (146, 3223), (151, 3253), (161, 3295),

Gene: TeardropMSU_40 Start: 34933, Stop: 34568, Start Num: 83
Candidate Starts for TeardropMSU_40:
(Start: 78 @34948 has 1 MA's), (Start: 83 @34933 has 98 MA's), (114, 34798), (123, 34774), (127, 34750), (136, 34687),

Gene: Thespis_54 Start: 36385, Stop: 36747, Start Num: 83
Candidate Starts for Thespis_54:
(13, 36157), (53, 36304), (62, 36328), (Start: 83 @36385 has 98 MA's), (102, 36460), (108, 36475), (115, 36502), (118, 36508), (132, 36553), (134, 36565), (175, 36724),

Gene: ThreeRngTarjay_158 Start: 86296, Stop: 86820, Start Num: 66
Candidate Starts for ThreeRngTarjay_158:
(21, 86155), (Start: 66 @86296 has 2 MA's), (Start: 73 @86308 has 1 MA's), (89, 86359), (98, 86422), (110, 86467), (120, 86506), (129, 86539), (148, 86659), (157, 86683), (167, 86731), (174, 86755),

Gene: ThreeRngTarjay_70 Start: 50738, Stop: 50373, Start Num: 82
Candidate Starts for ThreeRngTarjay_70:
(Start: 82 @50738 has 60 MA's), (92, 50696), (123, 50600), (135, 50531), (142, 50492),

Gene: Thresher_46 Start: 36685, Stop: 36281, Start Num: 83
Candidate Starts for Thresher_46:
(Start: 83 @36685 has 98 MA's), (114, 36550), (123, 36526), (127, 36502), (133, 36469), (163, 36334),

Gene: Tomaszewski_40 Start: 34800, Stop: 34435, Start Num: 83
Candidate Starts for Tomaszewski_40:
(Start: 78 @34815 has 1 MA's), (Start: 83 @34800 has 98 MA's), (114, 34665), (123, 34641), (127, 34617), (136, 34554),

Gene: Tonenili_21 Start: 6415, Stop: 6846, Start Num: 83
Candidate Starts for Tonenili_21:
(9, 6136), (31, 6280), (34, 6283), (Start: 83 @6415 has 98 MA's), (Start: 88 @6427 has 2 MA's), (111, 6535), (114, 6553), (123, 6577), (127, 6601), (132, 6631), (134, 6643), (149, 6715), (169, 6769),

Gene: Topgun_39 Start: 31551, Stop: 31189, Start Num: 58
Candidate Starts for Topgun_39:
(19, 31689), (26, 31656), (Start: 58 @31551 has 11 MA's), (134, 31308), (136, 31287), (137, 31281),
(138, 31278),

Gene: Tortellini_64 Start: 43747, Stop: 44214, Start Num: 77
Candidate Starts for Tortellini_64:
(56, 43702), (Start: 77 @43747 has 1 MA's), (93, 43822), (94, 43846), (106, 43888), (166, 44155),
(177, 44200),

Gene: Toto_42 Start: 35820, Stop: 35344, Start Num: 88
Candidate Starts for Toto_42:
(Start: 82 @35832 has 60 MA's), (Start: 88 @35820 has 2 MA's), (100, 35757), (111, 35742), (119, 35715),
(122, 35709), (132, 35664), (134, 35652), (140, 35610), (170, 35508), (190, 35364),

Gene: Tuco_44 Start: 36340, Stop: 35852, Start Num: 82
Candidate Starts for Tuco_44:
(Start: 82 @36340 has 60 MA's), (Start: 88 @36328 has 2 MA's), (100, 36265), (111, 36250), (119, 36223),
(122, 36217), (132, 36172), (134, 36160), (140, 36118), (170, 36016), (190, 35872),

Gene: Tyke_9 Start: 2817, Stop: 3251, Start Num: 83
Candidate Starts for Tyke_9:
(49, 2760), (Start: 83 @2817 has 98 MA's), (102, 2892), (108, 2907), (115, 2934), (118, 2940), (132, 2985),
(134, 2997), (144, 3048), (146, 3051), (151, 3081), (161, 3123),

Gene: VRedHorse_87 Start: 48107, Stop: 48463, Start Num: 82
Candidate Starts for VRedHorse_87:
(Start: 82 @48107 has 60 MA's), (152, 48359),

Gene: Wachhund_79 Start: 46376, Stop: 46765, Start Num: 52
Candidate Starts for Wachhund_79:
(32, 46334), (35, 46337), (Start: 52 @46376 has 3 MA's), (55, 46388), (Start: 85 @46454 has 1 MA's),
(99, 46517), (109, 46541), (132, 46625), (134, 46637),

Gene: Wanda_76 Start: 50200, Stop: 49835, Start Num: 82
Candidate Starts for Wanda_76:
(Start: 82 @50200 has 60 MA's), (92, 50158), (123, 50062), (135, 49993), (142, 49954),

Gene: Wilkins_39 Start: 31484, Stop: 31122, Start Num: 58
Candidate Starts for Wilkins_39:
(19, 31622), (26, 31589), (Start: 58 @31484 has 11 MA's), (134, 31241), (136, 31220), (137, 31214),
(138, 31211),

Gene: Xandras_43 Start: 35049, Stop: 34684, Start Num: 83
Candidate Starts for Xandras_43:
(Start: 83 @35049 has 98 MA's), (114, 34914), (123, 34890), (127, 34866), (136, 34803),

Gene: Yoshi_97 Start: 50855, Stop: 51199, Start Num: 82
Candidate Starts for Yoshi_97:
(28, 50720), (37, 50744), (57, 50801), (Start: 63 @50813 has 1 MA's), (69, 50822), (Start: 82 @50855 has 60 MA's),
(150, 51101),

Gene: Youngblood_43 Start: 35542, Stop: 35174, Start Num: 83

Candidate Starts for Youngblood_43:

(Start: 83 @35542 has 98 MA's), (Start: 88 @35530 has 2 MA's), (114, 35404), (123, 35380), (127, 35356), (136, 35293),

Gene: Zapner_89 Start: 47534, Stop: 47902, Start Num: 83

Candidate Starts for Zapner_89:

(72, 47498), (Start: 83 @47534 has 98 MA's), (114, 47669), (123, 47693), (127, 47717), (135, 47762), (136, 47780), (155, 47828),

Gene: Zelink_70 Start: 51051, Stop: 50686, Start Num: 82

Candidate Starts for Zelink_70:

(Start: 82 @51051 has 60 MA's), (92, 51009), (123, 50913), (135, 50844), (142, 50805),