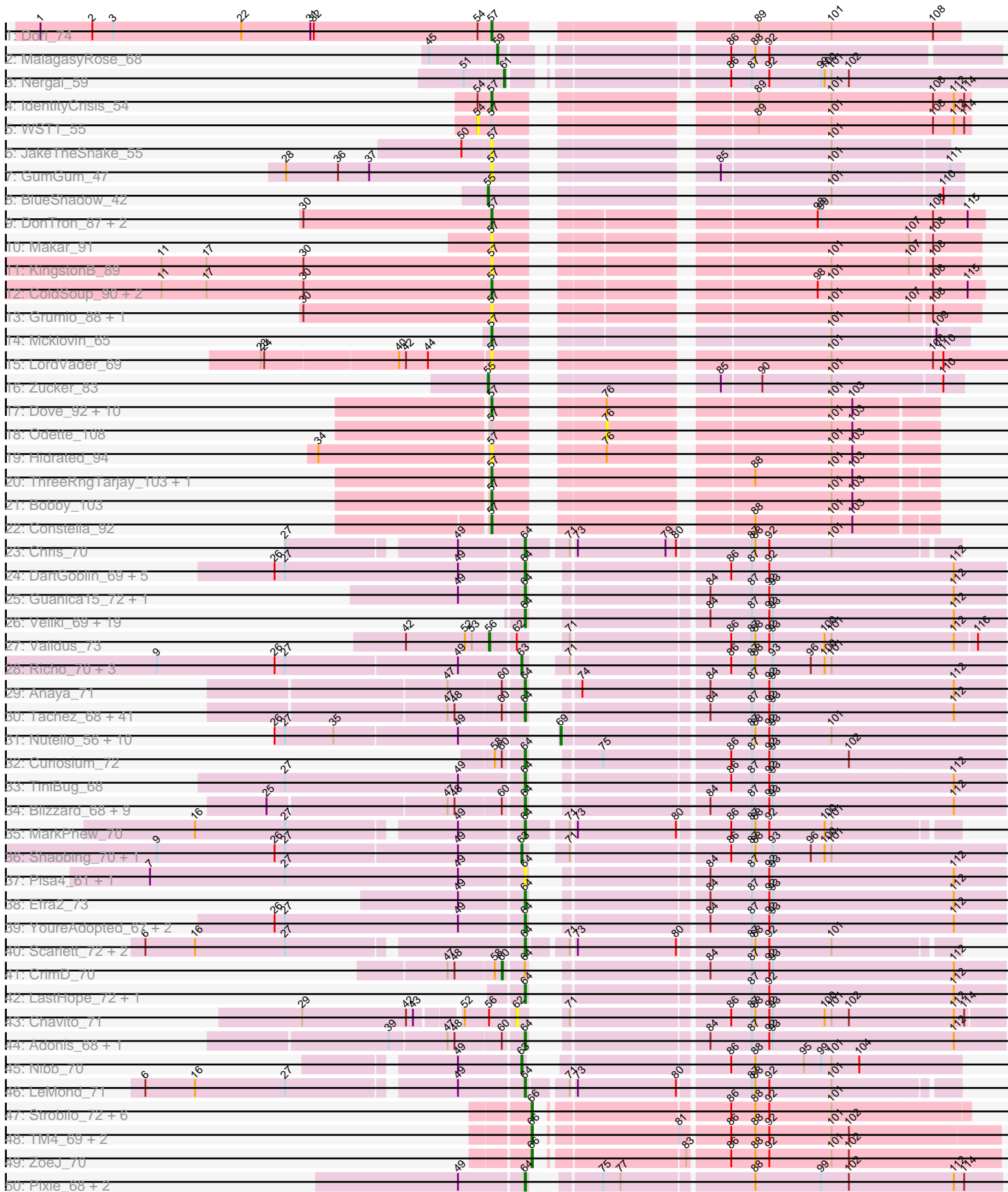
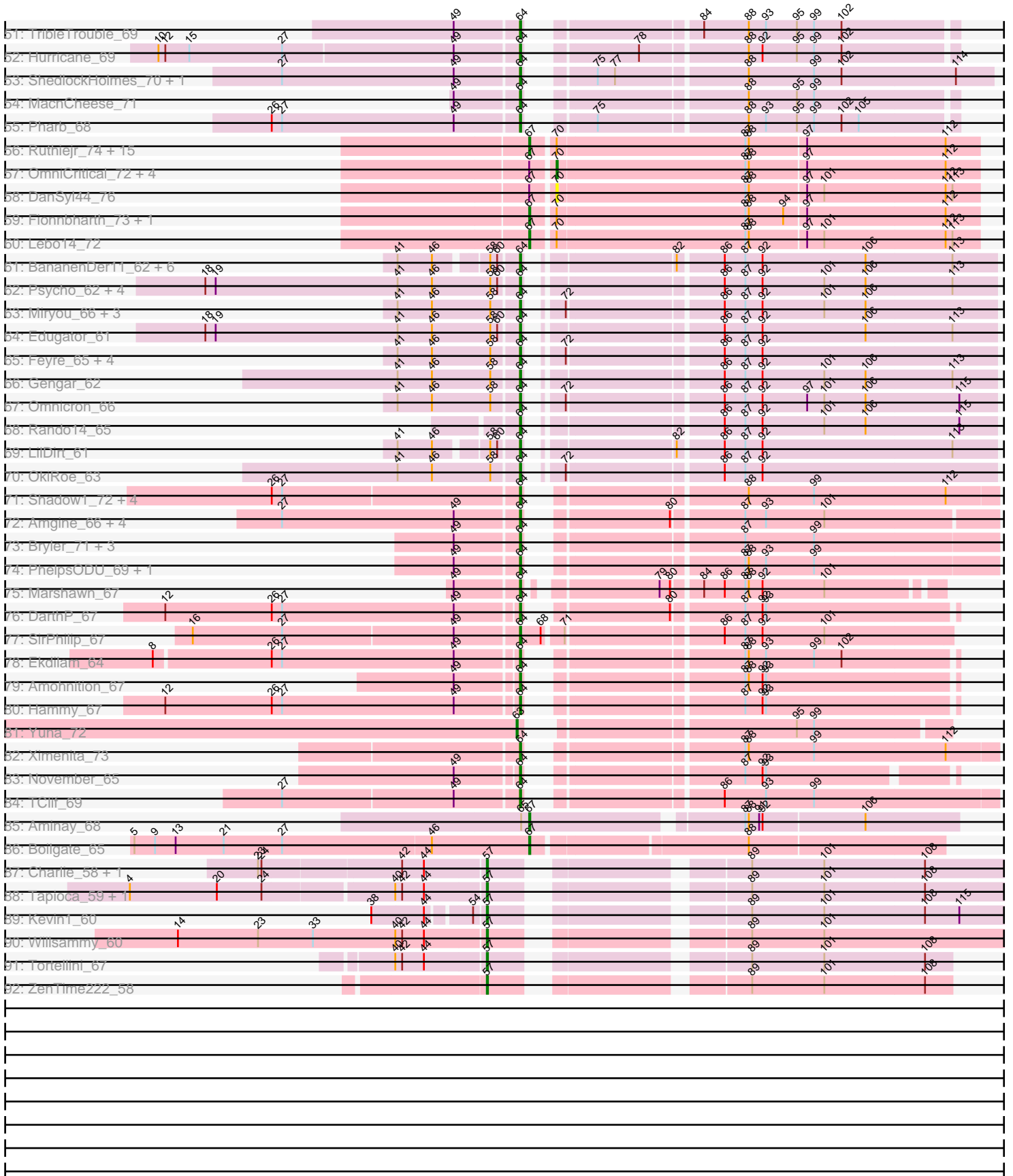


Pham 304677



Pham 304677



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 304677 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304677 has 266 members, 28 are drafts.

Phages represented in each track:

- Track 1 : Dori_74
- Track 2 : MalagasyRose_68
- Track 3 : Nergal_59
- Track 4 : IdentityCrisis_54
- Track 5 : WST1_55
- Track 6 : JakeTheSnake_55
- Track 7 : GumGum_47
- Track 8 : BlueShadow_42
- Track 9 : DonTron_87, Soos_83, Sting_86
- Track 10 : Makar_91
- Track 11 : KingstonB_89
- Track 12 : ColdSoup_90, Amo99_90, Jollymon_87
- Track 13 : Grumio_88, Purplicious_87
- Track 14 : Mcklovin_65
- Track 15 : LordVader_69
- Track 16 : Zucker_83
- Track 17 : Dove_92, Bombitas_95, Ejimix_100, JuicyJay_103, Halley_108, Beem_108, Minerva_106, Schatzie_101, HokkenD_96, Redno2_98, NihilNomen_108
- Track 18 : Odette_108
- Track 19 : Hidrated_94
- Track 20 : ThreeRngTarjay_103, Optimus_100
- Track 21 : Bobby_103
- Track 22 : Constella_92
- Track 23 : Chris_70
- Track 24 : DartGoblin_69, Anma_69, DrHayes_68, Urkel_68, Bella96_68, SamuelLPlaqson_68
- Track 25 : Guanica15_72, Yunkel11_72
- Track 26 : Veliki_69, Apocalypse_70, Devera_75, Ageofdapage_71, BaghaKamala_67, Prithvi_69, Stinson_69, LaterM_68, Deby_68, Megsy_70, TaiwanKao_70, Murucutumbu_69, Dole_73, CheetoDust_67, JAWS_68, Tiri_68, Illumine_73, LindNT_67, TreyKay_69, Bern_69
- Track 27 : Validus_73
- Track 28 : Richo_70, Dartin_70, Niklas_70, McMater_70
- Track 29 : Anaya_71
- Track 30 : Tachez_68, BGlluviae_68, Inky_68, Jarvi_68, Twitch_68, Slimphazie_69, Emerson_70, Padpat_71, Adephagia_68, Ramen_69, Zabiza_63, Pokerus_68, Homura_68, BarrelRoll_69, Rapunzel97_70, Atiba_69, Beezoo_70, Spock_68,

TruffulaTree_69, QuincyRose_66, Joy99_68, Lunahalos_68, Jeckyll_68, ActinUp_68, Zavala_71, Ganymede_68, Peel_68, MacKat_64, Belladonna_68, Rosmarinus_68, HedwigODU_68, Topper_68, Dalmuri_68, Jayhawk_70, Clipper_72, CallaLilly_68, Capricorn_68, Llorens_68, MeaningOfLife_69, AlishaPH_68, Mynx_70, CREW_68

- Track 31 : Nutello_56, LilPharaoh_57, Teejan_58, Torres_59, Nikao_59, Binglebops_56, Trice_56, Mdavu_57, Enkosi_58, Amelie_56, SgtBeansprout_57
- Track 32 : Curiosium_72
- Track 33 : TiniBug_68
- Track 34 : Blizzard_68, Hyperbowlee_68, CaseJules_70, Boiiii_68, Durfee_68, Piatt_68, Padfoot_68, Asayake_68, BEEST_68, ShiaSurprise_69
- Track 35 : MarkPheW_70
- Track 36 : Shaobing_70, Peanam_70
- Track 37 : Pisa4_61, Pisa1_67
- Track 38 : Efra2_73
- Track 39 : YoureAdopted_67, Sulley_67, Angelica_67
- Track 40 : Scarlett_72, Oscar_71, KiSi_72
- Track 41 : CrimD_70
- Track 42 : LastHope_72, TingHuaYa_71
- Track 43 : Chavito_71
- Track 44 : Adonis_68, Geraldini_71
- Track 45 : Nibb_70
- Track 46 : LeMond_71
- Track 47 : Strobilo_72, Doughnut_71, DismalFunk_71, Milly_71, DismalStressor_71, Marcoliusprime_71, Findley_71
- Track 48 : TM4_69, BoostSeason_71, Mufasa_71
- Track 49 : ZoeJ_70
- Track 50 : Pixie_68, Keshu_71, TBond007_65
- Track 51 : TribbleTrouble_69
- Track 52 : Hurricane_69
- Track 53 : ShedlockHolmes_70, Lea83_69
- Track 54 : MacnCheese_71
- Track 55 : Pharb_68
- Track 56 : Ruthiejr_74, Cheetobro_73, Taquito_72, Reptar3000_70, Malthus_74, Y10_70, Y2_70, Mitti_73, Patt_69, Juliette_75, Chancellor_73, MissDaisy_70, Slarp_73, JF1_73, Wintermute_73, SamScheppers_71
- Track 57 : OmniCritical_72, Qhanda_75, Kraw_73, Bobquesha_74, YasnayaPolyana_72
- Track 58 : DanSyl44_76
- Track 59 : Fionnbharth_73, Eponine_75
- Track 60 : Lebo14_72
- Track 61 : BananenDer11_62, DoubleChamp_59, Agent47_62, Collard_60, ViviJ_61, Kratio_60, InvictusManeo_60
- Track 62 : Psycho_62, Dadosky_64, AlleyCat_64, Larva_63, Neighly_64
- Track 63 : Miryou_66, Leston_62, Guillsminger_63, Paola_62
- Track 64 : Edugator_61
- Track 65 : Feyre_65, Waterfoul_64, SoSeph_63, Heftyboy_63, Thyatira_65
- Track 66 : Gengar_62
- Track 67 : Omnicron_66
- Track 68 : Rando14_65
- Track 69 : LilDirt_61
- Track 70 : OkiRoe_63
- Track 71 : Shadow1_72, Tigress9_72, Krueger_72, Sunflower1121_73, Syra333_71
- Track 72 : Amgine_66, Fefferhead_65, Ellie_63, Applecrisp_64, Lavahound_65

- Track 73 : Bryler_71, Cain_71, Phrank_71, Tierra_71
- Track 74 : PhelpsODU_69, Unicorn_69
- Track 75 : Marshawn_67
- Track 76 : DarthP_67
- Track 77 : SirPhilip_67
- Track 78 : Ekdilam_64
- Track 79 : Amohnition_67
- Track 80 : Hammy_67
- Track 81 : Yuna_72
- Track 82 : Ximenita_73
- Track 83 : November_65
- Track 84 : TClif_69
- Track 85 : Aminay_68
- Track 86 : Boilgate_65
- Track 87 : Charlie_58, Bosection6_56
- Track 88 : Tapioca_59, Andies_55
- Track 89 : Kevin1_60
- Track 90 : Willsammy_60
- Track 91 : Tortellini_67
- Track 92 : ZenTime222_58

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

The start number called the most often in the published annotations is 64, it was called in 153 of the 238 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_68, Adephegia_68, Adonis_68, Agent47_62, Ageofdapage_71, AlishaPH_68, AlleyCat_64, Amgine_66, Amohnition_67, Anaya_71, Angelica_67, Anna_69, Apocalypse_70, Applecrisp_64, Asayake_68, Atiba_69, BEEST_68, BGIlluviae_68, BaghaKamala_67, BananenDer11_62, BarrelRoll_69, Beezoo_70, Bella96_68, Belladonna_68, Bern_69, Blizzard_68, Boiiii_68, Bryler_71, CREW_68, Cain_71, CallaLilly_68, Capricorn_68, CaseJules_70, CheetoDust_67, Chris_70, Clipper_72, Collard_60, Curiosium_72, Dadosky_64, Dalmuri_68, DartGoblin_69, DarthP_67, Deby_68, Devera_75, Dole_73, DoubleChamp_59, DrHayes_68, Durfee_68, Edugator_61, Efra2_73, Ekdilam_64, Ellie_63, Emerson_70, Fefferhead_65, Feyre_65, Ganymede_68, Gengar_62, Geraldini_71, Guanica15_72, Guillsminger_63, Hammy_67, HedwigODU_68, Heftyboy_63, Homura_68, Hurricane_69, Hyperbowlee_68, Illumine_73, Inky_68, InvictusManeo_60, JAWS_68, Jarvi_68, Jayhawk_70, Jeckyll_68, Joy99_68, Keshu_71, KiSi_72, Kratio_60, Krueger_72, Larva_63, LastHope_72, LaterM_68, Lavahound_65, LeMond_71, Lea83_69, Leston_62, LilDirt_61, LindNT_67, Llorens_68, Lunahalos_68, MacKat_64, MacnCheese_71, MarkPhew_70, Marshawn_67, MeaningOfLife_69, Megsy_70, Miryou_66, Murucutumbu_69, Mynx_70, Neighly_64, November_65, OkiRoe_63, Omnicron_66, Oscar_71, Padfoot_68, Padpat_71, Paola_62, Peel_68, Pharb_68, PhelpsODU_69, Phrank_71, Piatt_68, Pisa1_67, Pisa4_61, Pixie_68, Pokerus_68, Prithvi_69, Psycho_62, QuincyRose_66, Ramen_69, Rando14_65, Rapunzel97_70, Rosmarinus_68, SamuelLPlaqson_68, Scarlett_72, Shadow1_72, ShedlockHolmes_70, ShiaSurprise_69, SirPhilip_67, Slimphazie_69, SoSeph_63, Spock_68, Stinson_69, Sulley_67, Sunflower1121_73, Syra333_71, TBond007_65,

TClif_69, Tachez_68, TaiwanKao_70, Thyatira_65, Tierra_71, Tigress9_72, TingHuaYa_71, TiniBug_68, Tiri_68, Topper_68, TreyKay_69, TribbleTrouble_69, TruffulaTree_69, Twitch_68, Unicorn_69, Urkel_68, Veliki_69, ViviJ_61, Waterfoul_64, Ximenita_73, YoureAdopted_67, Yunkel11_72, Zabiza_63, Zavala_71,

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

- CrimD_70,

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

- Amelie_56, Aminay_68, Amo99_90, Andies_55, Beem_108, Binglebops_56, BlueShadow_42, Bobby_103, Bobquesha_74, Boilgate_65, Bombitas_95, BoostSeason_71, Bosection6_56, Chancellor_73, Charlie_58, Chavito_71, Cheetobro_73, ColdSoup_90, Constella_92, DanSyl44_76, Dartin_70, DismalFunk_71, DismalStressor_71, DonTron_87, Dori_74, Doughnut_71, Dove_92, Ejimix_100, Enkosi_58, Eponine_75, Findley_71, Fionnbharth_73, Grumio_88, GumGum_47, Halley_108, Hidrated_94, HokkenD_96, IdentityCrisis_54, JF1_73, JakeTheSnake_55, Jollymon_87, JuicyJay_103, Juliette_75, Kevin1_60, KingstonB_89, Kraw_73, Lebo14_72, LilPharaoh_57, LordVader_69, Makar_91, MalagasyRose_68, Malthus_74, Marcoliusprime_71, McMater_70, Mcklovin_65, Mdavu_57, Milly_71, Minerva_106, MissDaisy_70, Mitti_73, Mufasa_71, Nergal_59, Nibb_70, NihilNomen_108, Nikao_59, Niklas_70, Nutello_56, Odette_108, OmniCritical_72, Optimus_100, Patt_69, Peanam_70, Purplicious_87, Qhanda_75, Redno2_98, Reptar3000_70, Richo_70, Ruthiejr_74, SamScheppers_71, Schatzie_101, SgtBeansprout_57, Shaobing_70, Slarp_73, Soos_83, Sting_86, Strobilo_72, TM4_69, Tapioca_59, Taquito_72, Teejan_58, ThreeRngTarjay_103, Torres_59, Tortellini_67, Trice_56, Validus_73, WST1_55, Willsammy_60, Wintermute_73, Y10_70, Y2_70, YasnayaPolyana_72, Yuna_72, ZenTime222_58, ZoeJ_70, Zucker_83,

Summary by start number:

Start 54:

- Found in 4 of 266 (1.5%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: WST1_55 (AJ),

Start 55:

- Found in 2 of 266 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 238
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueShadow_42 (AY), Zucker_83 (FN),

Start 56:

- Found in 2 of 266 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 238
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Validus_73 (K1),

Start 57:

- Found in 42 of 266 (15.8%) of genes in pham
- Manual Annotations of this start: 30 of 238
- Called 95.2% of time when present

- Phage (with cluster) where this start called: Amo99_90 (CP), Andies_55 (N), Beem_108 (J), Bobby_103 (J), Bombitas_95 (J), Bosection6_56 (N), Charlie_58 (N), ColdSoup_90 (CP), Constella_92 (J), DonTron_87 (CP), Dori_74 (AD), Dove_92 (J), Ejimix_100 (J), Grumio_88 (CP), GumGum_47 (AY), Halley_108 (J), Hidrated_94 (J), HokkenD_96 (J), IdentityCrisis_54 (AJ), JakeTheSnake_55 (AY), Jollymon_87 (CP), JuicyJay_103 (J), Kevin1_60 (N), KingstonB_89 (CP), LordVader_69 (F), Makar_91 (CP), Mcklovin_65 (CZ4), Minerva_106 (J), NihilNomen_108 (J), Optimus_100 (J), Purplicious_87 (CP), Redno2_98 (J), Schatzie_101 (J), Soos_83 (CP), Sting_86 (CP), Tapioca_59 (N), ThreeRngTarjay_103 (J), Tortellini_67 (P2), Willsammy_60 (P1), ZenTime222_58 (T),

Start 59:

- Found in 1 of 266 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 238
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_68 (AG),

Start 60:

- Found in 71 of 266 (26.7%) of genes in pham
- Manual Annotations of this start: 1 of 238
- Called 1.4% of time when present
- Phage (with cluster) where this start called: CrimD_70 (K1),

Start 61:

- Found in 1 of 266 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 238
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal_59 (AG),

Start 62:

- Found in 2 of 266 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Chavito_71 (K1),

Start 63:

- Found in 8 of 266 (3.0%) of genes in pham
- Manual Annotations of this start: 5 of 238
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dartin_70 (K1), McMater_70 (K1), Nibb_70 (K1), Niklas_70 (K1), Peanam_70 (K1), Richo_70 (K1), Shaobing_70 (K1), Yuna_72 (K6),

Start 64:

- Found in 161 of 266 (60.5%) of genes in pham
- Manual Annotations of this start: 153 of 238
- Called 99.4% of time when present
- Phage (with cluster) where this start called: ActinUp_68 (K1), Adephegia_68 (K1), Adonis_68 (K1), Agent47_62 (K5), Ageofdapage_71 (K1), AlishaPH_68 (K1), AlleyCat_64 (K5), Amgine_66 (K6), Amohnition_67 (K6), Anaya_71 (K1), Angelica_67 (K1), Anma_69 (K1), Apocalypse_70 (K1), Applecrisp_64 (K6), Asayake_68 (K1), Atiba_69 (K1), BEEEST_68 (K1), BGlluviae_68 (K1), BaghaKamala_67 (K1), BananenDer11_62 (K5), BarrelRoll_69 (K1), Beezoo_70 (K1), Bella96_68 (K1),

Belladonna_68 (K1), Bern_69 (K1), Blizzard_68 (K1), Boiiii_68 (K1), Bryler_71 (K6), CREW_68 (K1), Cain_71 (K6), CallaLilly_68 (K1), Capricorn_68 (K1), CaseJules_70 (K1), CheetoDust_67 (K1), Chris_70 (K1), Clipper_72 (K1), Collard_60 (K5), Curiosium_72 (K1), Dadosky_64 (K5), Dalmuri_68 (K1), DartGoblin_69 (K1), DarthP_67 (K6), Deby_68 (K1), Devera_75 (K1), Dole_73 (K1), DoubleChamp_59 (K5), DrHayes_68 (K1), Durfee_68 (K1), Edugator_61 (K5), Efra2_73 (K1), Ekdilam_64 (K6), Ellie_63 (K6), Emerson_70 (K1), Fefferhead_65 (K6), Feyre_65 (K5), Ganymede_68 (K1), Gengar_62 (K5), Geraldini_71 (K1), Guanica15_72 (K1), Guillsminger_63 (K5), Hammy_67 (K6), HedwigODU_68 (K1), Heftyboy_63 (K5), Homura_68 (K1), Hurricane_69 (K3), Hyperbowlee_68 (K1), Illumine_73 (K1), Inky_68 (K1), InvictusManeo_60 (K5), JAWS_68 (K1), Jarvi_68 (K1), Jayhawk_70 (K1), Jeckyll_68 (K1), Joy99_68 (K1), Keshu_71 (K3), KiSi_72 (K1), Kratio_60 (K5), Krueger_72 (K6), Larva_63 (K5), LastHope_72 (K1), LaterM_68 (K1), Lavahound_65 (K6), LeMond_71 (K1), Lea83_69 (K3), Leston_62 (K5), LilDirt_61 (K5), LindNT_67 (K1), Llorens_68 (K1), Lunahalos_68 (K1), MacKat_64 (K1), MacnCheese_71 (K3), MarkPhew_70 (K1), Marshawn_67 (K6), MeaningOfLife_69 (K1), Megsy_70 (K1), Miryou_66 (K5), Murucutumbu_69 (K1), Mynx_70 (K1), Neighly_64 (K3), November_65 (K6), OkiRoe_63 (K5), Omnicron_66 (K5), Oscar_71 (K1), Padfoot_68 (K1), Padpat_71 (K1), Paola_62 (K5), Peel_68 (K1), Pharb_68 (K3), PhelpsODU_69 (K6), Phrank_71 (K6), Piatt_68 (K1), Pisa1_67 (K1), Pisa4_61 (K1), Pixie_68 (K3), Pokerus_68 (K1), Prithvi_69 (K1), Psycho_62 (K5), QuincyRose_66 (K1), Ramen_69 (K1), Rando14_65 (K5), Rapunzel97_70 (K1), Rosmarinus_68 (K1), SamuelLPlaqson_68 (K1), Scarlett_72 (K1), Shadow1_72 (K6), ShedlockHolmes_70 (K3), ShiaSurprise_69 (K1), SirPhilip_67 (K6), Slimphazie_69 (K1), SoSeph_63 (K5), Spock_68 (K1), Stinson_69 (K1), Sulley_67 (K1), Sunflower1121_73 (K6), Syra333_71 (K6), TBond007_65 (K3), TClif_69 (K6), Tachez_68 (K1), TaiwanKao_70 (K1), Thyatira_65 (K5), Tierra_71 (K6), Tigress9_72 (K6), TingHuaYa_71 (K1), TiniBug_68 (K1), Tiri_68 (K1), Topper_68 (K1), TreyKay_69 (K1), TribbleTrouble_69 (K3), TruffulaTree_69 (K1), Twitch_68 (K1), Unicorn_69 (K6), Urkel_68 (K1), Veliki_69 (K1), ViviJ_61 (K5), Waterfoul_64 (K5), Ximenita_73 (K6), YoureAdopted_67 (K1), Yunkel11_72 (K1), Zabiza_63 (K1), Zavala_71 (K1),

Start 66:

- Found in 11 of 266 (4.1%) of genes in pham
- Manual Annotations of this start: 11 of 238
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_71 (K2), DismalFunk_71 (K2), DismalStressor_71 (K2), Doughnut_71 (K2), Findley_71 (K2), Marcoliusprime_71 (K2), Milly_71 (K2), Mufasa_71 (K2), Strobilo_72 (K2), TM4_69 (K2), ZoeJ_70 (K2),

Start 67:

- Found in 27 of 266 (10.2%) of genes in pham
- Manual Annotations of this start: 21 of 238
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Aminay_68 (K7), Boilgate_65 (K8), Chancellor_73 (K4), Cheetobro_73 (K4), Eponine_75 (K4), Fionnbharth_73 (K4), JF1_73 (K4), Juliette_75 (K4), Lebo14_72 (K4), Malthus_74 (K4), MissDaisy_70 (K4), Mitti_73 (K4), Patt_69 (K4), Reptar3000_70 (K4), Ruthiejr_74 (K4), SamScheppers_71 (K4), Slarp_73 (K4), Taquito_72 (K4), Wintermute_73 (K4), Y10_70 (K4), Y2_70 (K4),

Start 69:

- Found in 11 of 266 (4.1%) of genes in pham
- Manual Annotations of this start: 9 of 238
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelie_56 (K1), Binglebops_56 (K1), Enkosi_58 (K1), LilPharaoh_57 (K1), Mdavu_57 (K1), Nikao_59 (K1), Nutello_56 (K1), SgtBeansprout_57 (K1), Teejan_58 (K1), Torres_59 (K1), Trice_56 (K1),

Start 70:

- Found in 25 of 266 (9.4%) of genes in pham
- Manual Annotations of this start: 3 of 238
- Called 24.0% of time when present
- Phage (with cluster) where this start called: Bobquesha_74 (K4), DanSyl44_76 (K4), Kraw_73 (K4), OmniCritical_72 (K4), Qhanda_75 (K4), YasnayaPolyana_72 (K4),

Start 76:

- Found in 13 of 266 (4.9%) of genes in pham
- No Manual Annotations of this start.
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Odette_108 (J),

Summary by clusters:

There are 21 clusters represented in this pham: P2, AJ, AD, AG, F, K8, J, CZ4, N, K3, K2, K1, P1, K7, K6, K5, K4, AY, CP, FN, T,

Info for manual annotations of cluster AD:

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

Info for manual annotations of cluster AG:

- Start number 59 was manually annotated 1 time for cluster AG.
- Start number 61 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AJ:

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

Info for manual annotations of cluster AY:

- Start number 55 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CP:

- Start number 57 was manually annotated 4 times for cluster CP.

Info for manual annotations of cluster CZ4:

- Start number 57 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster FN:

- Start number 55 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster J:

- Start number 57 was manually annotated 15 times for cluster J.

Info for manual annotations of cluster K1:

- Start number 56 was manually annotated 1 time for cluster K1.

- Start number 60 was manually annotated 1 time for cluster K1.
- Start number 63 was manually annotated 4 times for cluster K1.
- Start number 64 was manually annotated 94 times for cluster K1.
- Start number 69 was manually annotated 9 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 66 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 64 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 67 was manually annotated 19 times for cluster K4.
- Start number 70 was manually annotated 3 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 64 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 63 was manually annotated 1 time for cluster K6.
- Start number 64 was manually annotated 25 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 67 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 67 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster N:

- Start number 57 was manually annotated 5 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 57 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster P2:

- Start number 57 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster T:

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

Gene Information:

Gene: ActinUp_68 Start: 43942, Stop: 44313, Start Num: 64

Candidate Starts for ActinUp_68:

(47, 43882), (48, 43888), (Start: 60 @43927 has 1 MA's), (Start: 64 @43942 has 153 MA's), (84, 44059), (87, 44095), (92, 44110), (93, 44113), (112, 44269),

Gene: Adephagia_68 Start: 43979, Stop: 44350, Start Num: 64

Candidate Starts for Adephagia_68:

(47, 43919), (48, 43925), (Start: 60 @43964 has 1 MA's), (Start: 64 @43979 has 153 MA's), (84, 44096), (87, 44132), (92, 44147), (93, 44150), (112, 44306),

Gene: Adonis_68 Start: 44214, Stop: 44585, Start Num: 64

Candidate Starts for Adonis_68:

(39, 44106), (47, 44154), (48, 44160), (Start: 60 @44199 has 1 MA's), (Start: 64 @44214 has 153 MA's), (84, 44331), (87, 44367), (92, 44382), (93, 44385), (112, 44541),

Gene: Agent47_62 Start: 41490, Stop: 41870, Start Num: 64

Candidate Starts for Agent47_62:

(41, 41400), (46, 41430), (58, 41469), (Start: 60 @41475 has 1 MA's), (Start: 64 @41490 has 153 MA's), (82, 41598), (86, 41634), (87, 41652), (92, 41667), (106, 41757), (113, 41832),

Gene: Ageofdapage_71 Start: 45137, Stop: 45508, Start Num: 64

Candidate Starts for Ageofdapage_71:

(Start: 64 @45137 has 153 MA's), (84, 45254), (87, 45290), (92, 45305), (93, 45308), (112, 45464),

Gene: AlishaPH_68 Start: 44240, Stop: 44611, Start Num: 64

Candidate Starts for AlishaPH_68:

(47, 44180), (48, 44186), (Start: 60 @44225 has 1 MA's), (Start: 64 @44240 has 153 MA's), (84, 44357), (87, 44393), (92, 44408), (93, 44411), (112, 44567),

Gene: AlleyCat_64 Start: 41814, Stop: 42194, Start Num: 64

Candidate Starts for AlleyCat_64:

(18, 41544), (19, 41553), (41, 41712), (46, 41742), (58, 41793), (Start: 60 @41799 has 1 MA's), (Start: 64 @41814 has 153 MA's), (86, 41958), (87, 41976), (92, 41991), (101, 42045), (106, 42081), (113, 42156),

Gene: Amelie_56 Start: 41183, Stop: 41554, Start Num: 69

Candidate Starts for Amelie_56:

(26, 40970), (27, 40979), (35, 41021), (49, 41126), (Start: 69 @41183 has 9 MA's), (87, 41336), (88, 41339), (92, 41351), (93, 41354), (101, 41405),

Gene: Amgine_66 Start: 44807, Stop: 45178, Start Num: 64

Candidate Starts for Amgine_66:

(27, 44603), (49, 44753), (Start: 64 @44807 has 153 MA's), (80, 44906), (87, 44963), (93, 44981), (101, 45032),

Gene: Aminay_68 Start: 43564, Stop: 43917, Start Num: 67

Candidate Starts for Aminay_68:

(65, 43558), (Start: 67 @43564 has 21 MA's), (87, 43735), (88, 43738), (91, 43747), (92, 43750), (106, 43837),

Gene: Amo99_90 Start: 56291, Stop: 56665, Start Num: 57

Candidate Starts for Amo99_90:

(11, 56006), (17, 56045), (30, 56129), (Start: 57 @56291 has 30 MA's), (98, 56522), (101, 56534), (108, 56621), (115, 56651),

Gene: Amohnition_67 Start: 44352, Stop: 44687, Start Num: 64

Candidate Starts for Amohnition_67:

(49, 44301), (Start: 64 @44352 has 153 MA's), (87, 44508), (88, 44511), (92, 44523), (93, 44526),

Gene: Anaya_71 Start: 44933, Stop: 45304, Start Num: 64

Candidate Starts for Anaya_71:

(47, 44873), (Start: 60 @44918 has 1 MA's), (Start: 64 @44933 has 153 MA's), (74, 44948), (84, 45050), (87, 45086), (92, 45101), (93, 45104), (112, 45260),

Gene: Andies_55 Start: 38900, Stop: 39301, Start Num: 57

Candidate Starts for Andies_55:

(4, 38603), (20, 38678), (24, 38717), (40, 38825), (42, 38831), (44, 38849), (Start: 57 @38900 has 30 MA's), (89, 39083), (101, 39146), (108, 39233),

Gene: Angelica_67 Start: 43899, Stop: 44270, Start Num: 64

Candidate Starts for Angelica_67:

(26, 43686), (27, 43695), (49, 43845), (Start: 64 @43899 has 153 MA's), (84, 44016), (87, 44052), (92, 44067), (93, 44070), (112, 44226),

Gene: Anma_69 Start: 44604, Stop: 44975, Start Num: 64

Candidate Starts for Anma_69:

(26, 44391), (27, 44400), (49, 44550), (Start: 64 @44604 has 153 MA's), (86, 44739), (87, 44757), (92, 44772), (112, 44931),

Gene: Apocalypse_70 Start: 44662, Stop: 45033, Start Num: 64

Candidate Starts for Apocalypse_70:

(Start: 64 @44662 has 153 MA's), (84, 44779), (87, 44815), (92, 44830), (93, 44833), (112, 44989),

Gene: Applecrisp_64 Start: 43937, Stop: 44308, Start Num: 64

Candidate Starts for Applecrisp_64:

(27, 43733), (49, 43883), (Start: 64 @43937 has 153 MA's), (80, 44036), (87, 44093), (93, 44111), (101, 44162),

Gene: Asayake_68 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for Asayake_68:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: Atiba_69 Start: 43942, Stop: 44313, Start Num: 64

Candidate Starts for Atiba_69:

(47, 43882), (48, 43888), (Start: 60 @43927 has 1 MA's), (Start: 64 @43942 has 153 MA's), (84, 44059), (87, 44095), (92, 44110), (93, 44113), (112, 44269),

Gene: BEEST_68 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for BEEST_68:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: BGlluviae_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for BGlluviae_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: BaghaKamala_67 Start: 43528, Stop: 43899, Start Num: 64

Candidate Starts for BaghaKamala_67:

(Start: 64 @43528 has 153 MA's), (84, 43645), (87, 43681), (92, 43696), (93, 43699), (112, 43855),

Gene: BananenDer11_62 Start: 41451, Stop: 41831, Start Num: 64

Candidate Starts for BananenDer11_62:

(41, 41361), (46, 41391), (58, 41430), (Start: 60 @41436 has 1 MA's), (Start: 64 @41451 has 153 MA's), (82, 41559), (86, 41595), (87, 41613), (92, 41628), (106, 41718), (113, 41793),

Gene: BarrelRoll_69 Start: 44380, Stop: 44751, Start Num: 64

Candidate Starts for BarrelRoll_69:

(47, 44320), (48, 44326), (Start: 60 @44365 has 1 MA's), (Start: 64 @44380 has 153 MA's), (84, 44497), (87, 44533), (92, 44548), (93, 44551), (112, 44707),

Gene: Beem_108 Start: 62992, Stop: 63327, Start Num: 57

Candidate Starts for Beem_108:

(Start: 57 @62992 has 30 MA's), (76, 63064), (101, 63238), (103, 63256),

Gene: Beezoo_70 Start: 44892, Stop: 45263, Start Num: 64

Candidate Starts for Beezoo_70:

(47, 44832), (48, 44838), (Start: 60 @44877 has 1 MA's), (Start: 64 @44892 has 153 MA's), (84, 45009), (87, 45045), (92, 45060), (93, 45063), (112, 45219),

Gene: Bella96_68 Start: 44450, Stop: 44821, Start Num: 64

Candidate Starts for Bella96_68:

(26, 44237), (27, 44246), (49, 44396), (Start: 64 @44450 has 153 MA's), (86, 44585), (87, 44603), (92, 44618), (112, 44777),

Gene: Belladonna_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Belladonna_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: Bern_69 Start: 43121, Stop: 43492, Start Num: 64

Candidate Starts for Bern_69:

(Start: 64 @43121 has 153 MA's), (84, 43238), (87, 43274), (92, 43289), (93, 43292), (112, 43448),

Gene: Biglebops_56 Start: 41183, Stop: 41554, Start Num: 69

Candidate Starts for Biglebops_56:

(26, 40970), (27, 40979), (35, 41021), (49, 41126), (Start: 69 @41183 has 9 MA's), (87, 41336), (88, 41339), (92, 41351), (93, 41354), (101, 41405),

Gene: Blizzard_68 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for Blizzard_68:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: BlueShadow_42 Start: 28586, Stop: 28227, Start Num: 55

Candidate Starts for BlueShadow_42:

(Start: 55 @28586 has 2 MA's), (101, 28337), (110, 28244),

Gene: Bobby_103 Start: 64857, Stop: 65192, Start Num: 57

Candidate Starts for Bobby_103:

(Start: 57 @64857 has 30 MA's), (101, 65103), (103, 65121),

Gene: Bobquesha_74 Start: 43552, Stop: 43914, Start Num: 70

Candidate Starts for Bobquesha_74:

(Start: 67 @43534 has 21 MA's), (Start: 70 @43552 has 3 MA's), (87, 43714), (88, 43717), (97, 43765), (112, 43885),

Gene: Boiiii_68 Start: 44296, Stop: 44667, Start Num: 64

Candidate Starts for Boiiii_68:

(25, 44086), (47, 44236), (48, 44242), (Start: 60 @44281 has 1 MA's), (Start: 64 @44296 has 153 MA's), (84, 44413), (87, 44449), (92, 44464), (93, 44467), (112, 44623),

Gene: Boilgate_65 Start: 46267, Stop: 46611, Start Num: 67

Candidate Starts for Boilgate_65:

(5, 45925), (9, 45943), (13, 45961), (21, 46003), (27, 46054), (46, 46183), (Start: 67 @46267 has 21 MA's), (88, 46444),

Gene: Bombitas_95 Start: 60155, Stop: 60490, Start Num: 57

Candidate Starts for Bombitas_95:

(Start: 57 @60155 has 30 MA's), (76, 60227), (101, 60401), (103, 60419),

Gene: BoostSeason_71 Start: 46076, Stop: 46420, Start Num: 66

Candidate Starts for BoostSeason_71:

(Start: 66 @46076 has 11 MA's), (81, 46181), (86, 46220), (88, 46241), (92, 46253), (101, 46307), (102, 46322),

Gene: Bosection6_56 Start: 38504, Stop: 38905, Start Num: 57

Candidate Starts for Bosection6_56:

(23, 38315), (24, 38318), (42, 38435), (44, 38453), (Start: 57 @38504 has 30 MA's), (89, 38687), (101, 38750), (108, 38837),

Gene: Bryler_71 Start: 43715, Stop: 44089, Start Num: 64

Candidate Starts for Bryler_71:

(49, 43661), (Start: 64 @43715 has 153 MA's), (87, 43871), (99, 43931),

Gene: CREW_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for CREW_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: Cain_71 Start: 43703, Stop: 44077, Start Num: 64

Candidate Starts for Cain_71:

(49, 43649), (Start: 64 @43703 has 153 MA's), (87, 43859), (99, 43919),

Gene: CallaLilly_68 Start: 44020, Stop: 44391, Start Num: 64

Candidate Starts for CallaLilly_68:

(47, 43960), (48, 43966), (Start: 60 @44005 has 1 MA's), (Start: 64 @44020 has 153 MA's), (84, 44137), (87, 44173), (92, 44188), (93, 44191), (112, 44347),

Gene: Capricorn_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Capricorn_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: CaseJules_70 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for CaseJules_70:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: Chancellor_73 Start: 44642, Stop: 45022, Start Num: 67
Candidate Starts for Chancellor_73:
(Start: 67 @44642 has 21 MA's), (Start: 70 @44660 has 3 MA's), (87, 44822), (88, 44825), (97, 44873),
(112, 44993),

Gene: Charlie_58 Start: 38128, Stop: 38529, Start Num: 57
Candidate Starts for Charlie_58:
(23, 37939), (24, 37942), (42, 38059), (44, 38077), (Start: 57 @38128 has 30 MA's), (89, 38311), (101,
38374), (108, 38461),

Gene: Chavito_71 Start: 45115, Stop: 45489, Start Num: 62
Candidate Starts for Chavito_71:
(29, 44947), (42, 45037), (43, 45043), (52, 45076), (Start: 56 @45097 has 1 MA's), (62, 45115), (71,
45130), (86, 45256), (87, 45274), (88, 45277), (92, 45289), (93, 45292), (100, 45337), (101, 45343),
(102, 45358), (112, 45448), (114, 45457),

Gene: CheetoDust_67 Start: 43575, Stop: 43946, Start Num: 64
Candidate Starts for CheetoDust_67:
(Start: 64 @43575 has 153 MA's), (84, 43692), (87, 43728), (92, 43743), (93, 43746), (112, 43902),

Gene: Cheetobro_73 Start: 44639, Stop: 45019, Start Num: 67
Candidate Starts for Cheetobro_73:
(Start: 67 @44639 has 21 MA's), (Start: 70 @44657 has 3 MA's), (87, 44819), (88, 44822), (97, 44870),
(112, 44990),

Gene: Chris_70 Start: 44892, Stop: 45239, Start Num: 64
Candidate Starts for Chris_70:
(27, 44703), (49, 44838), (Start: 64 @44892 has 153 MA's), (71, 44925), (73, 44928), (79, 45003), (80,
45012), (87, 45069), (88, 45072), (92, 45084), (101, 45138),

Gene: Clipper_72 Start: 44996, Stop: 45367, Start Num: 64
Candidate Starts for Clipper_72:
(47, 44936), (48, 44942), (Start: 60 @44981 has 1 MA's), (Start: 64 @44996 has 153 MA's), (84,
45113), (87, 45149), (92, 45164), (93, 45167), (112, 45323),

Gene: ColdSoup_90 Start: 56372, Stop: 56746, Start Num: 57
Candidate Starts for ColdSoup_90:
(11, 56087), (17, 56126), (30, 56210), (Start: 57 @56372 has 30 MA's), (98, 56603), (101, 56615),
(108, 56702), (115, 56732),

Gene: Collard_60 Start: 41451, Stop: 41831, Start Num: 64
Candidate Starts for Collard_60:
(41, 41361), (46, 41391), (58, 41430), (Start: 60 @41436 has 1 MA's), (Start: 64 @41451 has 153
MA's), (82, 41559), (86, 41595), (87, 41613), (92, 41628), (106, 41718), (113, 41793),

Gene: Constella_92 Start: 57167, Stop: 57499, Start Num: 57
Candidate Starts for Constella_92:
(Start: 57 @57167 has 30 MA's), (88, 57347), (101, 57413), (103, 57431),

Gene: CrimD_70 Start: 44874, Stop: 45260, Start Num: 60
Candidate Starts for CrimD_70:
(47, 44829), (48, 44835), (58, 44868), (Start: 60 @44874 has 1 MA's), (Start: 64 @44889 has 153
MA's), (84, 45006), (87, 45042), (92, 45057), (93, 45060), (112, 45216),

Gene: Curiosium_72 Start: 43619, Stop: 43990, Start Num: 64

Candidate Starts for Curiosium_72:

(58, 43598), (Start: 60 @43604 has 1 MA's), (Start: 64 @43619 has 153 MA's), (75, 43652), (86, 43754), (87, 43772), (92, 43787), (93, 43790), (102, 43856),

Gene: Dadosky_64 Start: 41816, Stop: 42196, Start Num: 64

Candidate Starts for Dadosky_64:

(18, 41546), (19, 41555), (41, 41714), (46, 41744), (58, 41795), (Start: 60 @41801 has 1 MA's), (Start: 64 @41816 has 153 MA's), (86, 41960), (87, 41978), (92, 41993), (101, 42047), (106, 42083), (113, 42158),

Gene: Dalmuri_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Dalmuri_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: DanSyl44_76 Start: 45851, Stop: 46213, Start Num: 70

Candidate Starts for DanSyl44_76:

(Start: 67 @45833 has 21 MA's), (Start: 70 @45851 has 3 MA's), (87, 46013), (88, 46016), (97, 46064), (101, 46079), (112, 46184), (113, 46190),

Gene: DartGoblin_69 Start: 44422, Stop: 44793, Start Num: 64

Candidate Starts for DartGoblin_69:

(26, 44209), (27, 44218), (49, 44368), (Start: 64 @44422 has 153 MA's), (86, 44557), (87, 44575), (92, 44590), (112, 44749),

Gene: DarthP_67 Start: 44206, Stop: 44541, Start Num: 64

Candidate Starts for DarthP_67:

(12, 43903), (26, 43996), (27, 44005), (49, 44155), (Start: 64 @44206 has 153 MA's), (80, 44305), (87, 44362), (92, 44377), (93, 44380),

Gene: Dartin_70 Start: 44359, Stop: 44739, Start Num: 63

Candidate Starts for Dartin_70:

(9, 44050), (26, 44152), (27, 44161), (49, 44308), (Start: 63 @44359 has 5 MA's), (71, 44377), (86, 44503), (87, 44521), (88, 44524), (93, 44539), (96, 44572), (100, 44584), (101, 44590),

Gene: Deby_68 Start: 44347, Stop: 44718, Start Num: 64

Candidate Starts for Deby_68:

(Start: 64 @44347 has 153 MA's), (84, 44464), (87, 44500), (92, 44515), (93, 44518), (112, 44674),

Gene: Devera_75 Start: 45700, Stop: 46071, Start Num: 64

Candidate Starts for Devera_75:

(Start: 64 @45700 has 153 MA's), (84, 45817), (87, 45853), (92, 45868), (93, 45871), (112, 46027),

Gene: DismalFunk_71 Start: 46501, Stop: 46845, Start Num: 66

Candidate Starts for DismalFunk_71:

(Start: 66 @46501 has 11 MA's), (86, 46642), (88, 46663), (92, 46675), (101, 46729),

Gene: DismalStressor_71 Start: 46501, Stop: 46845, Start Num: 66

Candidate Starts for DismalStressor_71:

(Start: 66 @46501 has 11 MA's), (86, 46642), (88, 46663), (92, 46675), (101, 46729),

Gene: Dole_73 Start: 45703, Stop: 46074, Start Num: 64
Candidate Starts for Dole_73:
(Start: 64 @45703 has 153 MA's), (84, 45820), (87, 45856), (92, 45871), (93, 45874), (112, 46030),

Gene: DonTron_87 Start: 56250, Stop: 56624, Start Num: 57
Candidate Starts for DonTron_87:
(30, 56088), (Start: 57 @56250 has 30 MA's), (98, 56481), (99, 56484), (108, 56580), (115, 56610),

Gene: Dori_74 Start: 55849, Stop: 56205, Start Num: 57
Candidate Starts for Dori_74:
(1, 55459), (2, 55504), (3, 55522), (22, 55633), (31, 55693), (32, 55696), (54, 55837), (Start: 57 @55849 has 30 MA's), (89, 56032), (101, 56095), (108, 56182),

Gene: DoubleChamp_59 Start: 41451, Stop: 41831, Start Num: 64
Candidate Starts for DoubleChamp_59:
(41, 41361), (46, 41391), (58, 41430), (Start: 60 @41436 has 1 MA's), (Start: 64 @41451 has 153 MA's), (82, 41559), (86, 41595), (87, 41613), (92, 41628), (106, 41718), (113, 41793),

Gene: Doughnut_71 Start: 46117, Stop: 46461, Start Num: 66
Candidate Starts for Doughnut_71:
(Start: 66 @46117 has 11 MA's), (86, 46258), (88, 46279), (92, 46291), (101, 46345),

Gene: Dove_92 Start: 58421, Stop: 58756, Start Num: 57
Candidate Starts for Dove_92:
(Start: 57 @58421 has 30 MA's), (76, 58493), (101, 58667), (103, 58685),

Gene: DrHayes_68 Start: 44604, Stop: 44975, Start Num: 64
Candidate Starts for DrHayes_68:
(26, 44391), (27, 44400), (49, 44550), (Start: 64 @44604 has 153 MA's), (86, 44739), (87, 44757), (92, 44772), (112, 44931),

Gene: Durfee_68 Start: 44294, Stop: 44665, Start Num: 64
Candidate Starts for Durfee_68:
(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: Edugator_61 Start: 43237, Stop: 43617, Start Num: 64
Candidate Starts for Edugator_61:
(18, 42967), (19, 42976), (41, 43135), (46, 43165), (58, 43216), (Start: 60 @43222 has 1 MA's), (Start: 64 @43237 has 153 MA's), (86, 43381), (87, 43399), (92, 43414), (106, 43504), (113, 43579),

Gene: Efra2_73 Start: 44448, Stop: 44819, Start Num: 64
Candidate Starts for Efra2_73:
(49, 44394), (Start: 64 @44448 has 153 MA's), (84, 44565), (87, 44601), (92, 44616), (93, 44619), (112, 44775),

Gene: Ejimix_100 Start: 62719, Stop: 63054, Start Num: 57
Candidate Starts for Ejimix_100:
(Start: 57 @62719 has 30 MA's), (76, 62791), (101, 62965), (103, 62983),

Gene: Ekdilam_64 Start: 44431, Stop: 44766, Start Num: 64
Candidate Starts for Ekdilam_64:

(8, 44122), (26, 44221), (27, 44230), (49, 44380), (Start: 64 @44431 has 153 MA's), (87, 44587), (88, 44590), (93, 44605), (99, 44647), (102, 44671),

Gene: Ellie_63 Start: 43667, Stop: 44038, Start Num: 64

Candidate Starts for Ellie_63:

(27, 43463), (49, 43613), (Start: 64 @43667 has 153 MA's), (80, 43766), (87, 43823), (93, 43841), (101, 43892),

Gene: Emerson_70 Start: 44414, Stop: 44785, Start Num: 64

Candidate Starts for Emerson_70:

(47, 44354), (48, 44360), (Start: 60 @44399 has 1 MA's), (Start: 64 @44414 has 153 MA's), (84, 44531), (87, 44567), (92, 44582), (93, 44585), (112, 44741),

Gene: Enkosi_58 Start: 43796, Stop: 44167, Start Num: 69

Candidate Starts for Enkosi_58:

(26, 43583), (27, 43592), (35, 43634), (49, 43739), (Start: 69 @43796 has 9 MA's), (87, 43949), (88, 43952), (92, 43964), (93, 43967), (101, 44018),

Gene: Eponine_75 Start: 45485, Stop: 45865, Start Num: 67

Candidate Starts for Eponine_75:

(Start: 67 @45485 has 21 MA's), (Start: 70 @45503 has 3 MA's), (87, 45665), (88, 45668), (94, 45698), (97, 45716), (112, 45836),

Gene: Fefferhead_65 Start: 43576, Stop: 43947, Start Num: 64

Candidate Starts for Fefferhead_65:

(27, 43372), (49, 43522), (Start: 64 @43576 has 153 MA's), (80, 43675), (87, 43732), (93, 43750), (101, 43801),

Gene: Feyre_65 Start: 45225, Stop: 45605, Start Num: 64

Candidate Starts for Feyre_65:

(41, 45123), (46, 45153), (58, 45204), (Start: 64 @45225 has 153 MA's), (72, 45243), (86, 45369), (87, 45387), (92, 45402),

Gene: Findley_71 Start: 46495, Stop: 46839, Start Num: 66

Candidate Starts for Findley_71:

(Start: 66 @46495 has 11 MA's), (86, 46636), (88, 46657), (92, 46669), (101, 46723),

Gene: Fionnbharth_73 Start: 44883, Stop: 45263, Start Num: 67

Candidate Starts for Fionnbharth_73:

(Start: 67 @44883 has 21 MA's), (Start: 70 @44901 has 3 MA's), (87, 45063), (88, 45066), (94, 45096), (97, 45114), (112, 45234),

Gene: Ganymede_68 Start: 44320, Stop: 44691, Start Num: 64

Candidate Starts for Ganymede_68:

(47, 44260), (48, 44266), (Start: 60 @44305 has 1 MA's), (Start: 64 @44320 has 153 MA's), (84, 44437), (87, 44473), (92, 44488), (93, 44491), (112, 44647),

Gene: Gengar_62 Start: 43211, Stop: 43591, Start Num: 64

Candidate Starts for Gengar_62:

(41, 43109), (46, 43139), (58, 43190), (Start: 64 @43211 has 153 MA's), (86, 43355), (87, 43373), (92, 43388), (101, 43442), (106, 43478), (113, 43553),

Gene: Geraldini_71 Start: 44976, Stop: 45347, Start Num: 64

Candidate Starts for Geraldini_71:

(39, 44868), (47, 44916), (48, 44922), (Start: 60 @44961 has 1 MA's), (Start: 64 @44976 has 153 MA's), (84, 45093), (87, 45129), (92, 45144), (93, 45147), (112, 45303),

Gene: Grumio_88 Start: 55850, Stop: 56215, Start Num: 57

Candidate Starts for Grumio_88:

(30, 55688), (Start: 57 @55850 has 30 MA's), (101, 56093), (107, 56159), (108, 56174),

Gene: Guanica15_72 Start: 44186, Stop: 44557, Start Num: 64

Candidate Starts for Guanica15_72:

(49, 44132), (Start: 64 @44186 has 153 MA's), (84, 44303), (87, 44339), (92, 44354), (93, 44357), (112, 44513),

Gene: Guillsminger_63 Start: 43165, Stop: 43545, Start Num: 64

Candidate Starts for Guillsminger_63:

(41, 43063), (46, 43093), (58, 43144), (Start: 64 @43165 has 153 MA's), (72, 43183), (86, 43309), (87, 43327), (92, 43342), (101, 43396), (106, 43432),

Gene: GumGum_47 Start: 29741, Stop: 30097, Start Num: 57

Candidate Starts for GumGum_47:

(28, 29564), (36, 29609), (37, 29636), (Start: 57 @29741 has 30 MA's), (85, 29894), (101, 29987), (111, 30086),

Gene: Halley_108 Start: 62993, Stop: 63328, Start Num: 57

Candidate Starts for Halley_108:

(Start: 57 @62993 has 30 MA's), (76, 63065), (101, 63239), (103, 63257),

Gene: Hammy_67 Start: 44194, Stop: 44529, Start Num: 64

Candidate Starts for Hammy_67:

(12, 43891), (26, 43984), (27, 43993), (49, 44143), (Start: 64 @44194 has 153 MA's), (87, 44350), (92, 44365), (93, 44368),

Gene: HedwigODU_68 Start: 43942, Stop: 44313, Start Num: 64

Candidate Starts for HedwigODU_68:

(47, 43882), (48, 43888), (Start: 60 @43927 has 1 MA's), (Start: 64 @43942 has 153 MA's), (84, 44059), (87, 44095), (92, 44110), (93, 44113), (112, 44269),

Gene: Heftyboy_63 Start: 43532, Stop: 43912, Start Num: 64

Candidate Starts for Heftyboy_63:

(41, 43430), (46, 43460), (58, 43511), (Start: 64 @43532 has 153 MA's), (72, 43550), (86, 43676), (87, 43694), (92, 43709),

Gene: Hidrated_94 Start: 60927, Stop: 61262, Start Num: 57

Candidate Starts for Hidrated_94:

(34, 60783), (Start: 57 @60927 has 30 MA's), (76, 60999), (101, 61173), (103, 61191),

Gene: HokkenD_96 Start: 61261, Stop: 61596, Start Num: 57

Candidate Starts for HokkenD_96:

(Start: 57 @61261 has 30 MA's), (76, 61333), (101, 61507), (103, 61525),

Gene: Homura_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Homura_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: Hurricane_69 Start: 44340, Stop: 44675, Start Num: 64

Candidate Starts for Hurricane_69:

(10, 44031), (12, 44037), (15, 44058), (27, 44139), (49, 44286), (Start: 64 @44340 has 153 MA's), (78, 44412), (88, 44499), (92, 44511), (95, 44541), (99, 44556), (102, 44580),

Gene: Hyperbowlee_68 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for Hyperbowlee_68:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: IdentityCrisis_54 Start: 33602, Stop: 33967, Start Num: 57

Candidate Starts for IdentityCrisis_54:

(54, 33590), (Start: 57 @33602 has 30 MA's), (89, 33785), (101, 33848), (108, 33935), (112, 33953), (114, 33962),

Gene: Illumine_73 Start: 45702, Stop: 46073, Start Num: 64

Candidate Starts for Illumine_73:

(Start: 64 @45702 has 153 MA's), (84, 45819), (87, 45855), (92, 45870), (93, 45873), (112, 46029),

Gene: Inky_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Inky_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: InvictusManeo_60 Start: 41494, Stop: 41874, Start Num: 64

Candidate Starts for InvictusManeo_60:

(41, 41404), (46, 41434), (58, 41473), (Start: 60 @41479 has 1 MA's), (Start: 64 @41494 has 153 MA's), (82, 41602), (86, 41638), (87, 41656), (92, 41671), (106, 41761), (113, 41836),

Gene: JAWS_68 Start: 44140, Stop: 44511, Start Num: 64

Candidate Starts for JAWS_68:

(Start: 64 @44140 has 153 MA's), (84, 44257), (87, 44293), (92, 44308), (93, 44311), (112, 44467),

Gene: JF1_73 Start: 44849, Stop: 45229, Start Num: 67

Candidate Starts for JF1_73:

(Start: 67 @44849 has 21 MA's), (Start: 70 @44867 has 3 MA's), (87, 45029), (88, 45032), (97, 45080), (112, 45200),

Gene: JakeTheSnake_55 Start: 32735, Stop: 33079, Start Num: 57

Candidate Starts for JakeTheSnake_55:

(50, 32711), (Start: 57 @32735 has 30 MA's), (101, 32981),

Gene: Jarvi_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Jarvi_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: Jayhawk_70 Start: 44440, Stop: 44811, Start Num: 64

Candidate Starts for Jayhawk_70:

(47, 44380), (48, 44386), (Start: 60 @44425 has 1 MA's), (Start: 64 @44440 has 153 MA's), (84, 44557), (87, 44593), (92, 44608), (93, 44611), (112, 44767),

Gene: Jeckyll_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Jeckyll_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: Jollymon_87 Start: 56372, Stop: 56746, Start Num: 57

Candidate Starts for Jollymon_87:

(11, 56087), (17, 56126), (30, 56210), (Start: 57 @56372 has 30 MA's), (98, 56603), (101, 56615), (108, 56702), (115, 56732),

Gene: Joy99_68 Start: 44026, Stop: 44397, Start Num: 64

Candidate Starts for Joy99_68:

(47, 43966), (48, 43972), (Start: 60 @44011 has 1 MA's), (Start: 64 @44026 has 153 MA's), (84, 44143), (87, 44179), (92, 44194), (93, 44197), (112, 44353),

Gene: JuicyJay_103 Start: 64127, Stop: 64462, Start Num: 57

Candidate Starts for JuicyJay_103:

(Start: 57 @64127 has 30 MA's), (76, 64199), (101, 64373), (103, 64391),

Gene: Juliette_75 Start: 44947, Stop: 45327, Start Num: 67

Candidate Starts for Juliette_75:

(Start: 67 @44947 has 21 MA's), (Start: 70 @44965 has 3 MA's), (87, 45127), (88, 45130), (97, 45178), (112, 45298),

Gene: Keshu_71 Start: 44440, Stop: 44811, Start Num: 64

Candidate Starts for Keshu_71:

(49, 44386), (Start: 64 @44440 has 153 MA's), (75, 44476), (77, 44491), (88, 44599), (99, 44656), (102, 44680), (112, 44770), (114, 44779),

Gene: Kevin1_60 Start: 37027, Stop: 37434, Start Num: 57

Candidate Starts for Kevin1_60:

(38, 36940), (44, 36985), (54, 37018), (Start: 57 @37027 has 30 MA's), (89, 37210), (101, 37273), (108, 37360), (115, 37390),

Gene: KiSi_72 Start: 44874, Stop: 45218, Start Num: 64

Candidate Starts for KiSi_72:

(6, 44565), (16, 44607), (27, 44685), (Start: 64 @44874 has 153 MA's), (71, 44904), (73, 44907), (80, 44991), (87, 45048), (88, 45051), (92, 45063), (101, 45117),

Gene: KingstonB_89 Start: 55783, Stop: 56148, Start Num: 57

Candidate Starts for KingstonB_89:

(11, 55498), (17, 55537), (30, 55621), (Start: 57 @55783 has 30 MA's), (101, 56026), (107, 56092), (108, 56107),

Gene: Kratio_60 Start: 41230, Stop: 41610, Start Num: 64

Candidate Starts for Kratio_60:

(41, 41140), (46, 41170), (58, 41209), (Start: 60 @41215 has 1 MA's), (Start: 64 @41230 has 153 MA's), (82, 41338), (86, 41374), (87, 41392), (92, 41407), (106, 41497), (113, 41572),

Gene: Kraw_73 Start: 44653, Stop: 45015, Start Num: 70

Candidate Starts for Kraw_73:

(Start: 67 @44635 has 21 MA's), (Start: 70 @44653 has 3 MA's), (87, 44815), (88, 44818), (97, 44866), (112, 44986),

Gene: Krueger_72 Start: 43991, Stop: 44365, Start Num: 64

Candidate Starts for Krueger_72:

(26, 43781), (27, 43790), (Start: 64 @43991 has 153 MA's), (88, 44150), (99, 44207), (112, 44321),

Gene: Larva_63 Start: 42688, Stop: 43068, Start Num: 64

Candidate Starts for Larva_63:

(18, 42418), (19, 42427), (41, 42586), (46, 42616), (58, 42667), (Start: 60 @42673 has 1 MA's), (Start: 64 @42688 has 153 MA's), (86, 42832), (87, 42850), (92, 42865), (101, 42919), (106, 42955), (113, 43030),

Gene: LastHope_72 Start: 43303, Stop: 43674, Start Num: 64

Candidate Starts for LastHope_72:

(Start: 64 @43303 has 153 MA's), (87, 43456), (92, 43471), (112, 43630),

Gene: LaterM_68 Start: 44555, Stop: 44926, Start Num: 64

Candidate Starts for LaterM_68:

(Start: 64 @44555 has 153 MA's), (84, 44672), (87, 44708), (92, 44723), (93, 44726), (112, 44882),

Gene: Lavahound_65 Start: 44944, Stop: 45315, Start Num: 64

Candidate Starts for Lavahound_65:

(27, 44740), (49, 44890), (Start: 64 @44944 has 153 MA's), (80, 45043), (87, 45100), (93, 45118), (101, 45169),

Gene: LeMond_71 Start: 44508, Stop: 44852, Start Num: 64

Candidate Starts for LeMond_71:

(6, 44199), (16, 44241), (27, 44319), (49, 44454), (Start: 64 @44508 has 153 MA's), (71, 44538), (73, 44541), (80, 44625), (87, 44682), (88, 44685), (92, 44697), (101, 44751),

Gene: Lea83_69 Start: 44374, Stop: 44745, Start Num: 64

Candidate Starts for Lea83_69:

(27, 44170), (49, 44320), (Start: 64 @44374 has 153 MA's), (75, 44410), (77, 44425), (88, 44533), (99, 44590), (102, 44614), (114, 44713),

Gene: Lebo14_72 Start: 44968, Stop: 45348, Start Num: 67

Candidate Starts for Lebo14_72:

(Start: 67 @44968 has 21 MA's), (Start: 70 @44986 has 3 MA's), (87, 45148), (88, 45151), (97, 45199), (101, 45214), (112, 45319), (113, 45325),

Gene: Leston_62 Start: 43294, Stop: 43674, Start Num: 64

Candidate Starts for Leston_62:

(41, 43192), (46, 43222), (58, 43273), (Start: 64 @43294 has 153 MA's), (72, 43312), (86, 43438), (87, 43456), (92, 43471), (101, 43525), (106, 43561),

Gene: LilDirt_61 Start: 41252, Stop: 41632, Start Num: 64

Candidate Starts for LilDirt_61:

(41, 41162), (46, 41192), (58, 41231), (Start: 60 @41237 has 1 MA's), (Start: 64 @41252 has 153 MA's), (82, 41360), (86, 41396), (87, 41414), (92, 41429), (113, 41594),

Gene: LilPharaoh_57 Start: 40911, Stop: 41282, Start Num: 69

Candidate Starts for LilPharaoh_57:

(26, 40698), (27, 40707), (35, 40749), (49, 40854), (Start: 69 @40911 has 9 MA's), (87, 41064), (88, 41067), (92, 41079), (93, 41082), (101, 41133),

Gene: LindNT_67 Start: 44352, Stop: 44723, Start Num: 64

Candidate Starts for LindNT_67:

(Start: 64 @44352 has 153 MA's), (84, 44469), (87, 44505), (92, 44520), (93, 44523), (112, 44679),

Gene: Llorens_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Llorens_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: LordVader_69 Start: 40263, Stop: 40670, Start Num: 57

Candidate Starts for LordVader_69:

(23, 40074), (24, 40077), (40, 40188), (42, 40194), (44, 40212), (Start: 57 @40263 has 30 MA's), (101, 40509), (108, 40596), (110, 40605),

Gene: Lunahalos_68 Start: 44097, Stop: 44468, Start Num: 64

Candidate Starts for Lunahalos_68:

(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: MacKat_64 Start: 39880, Stop: 40251, Start Num: 64

Candidate Starts for MacKat_64:

(47, 39820), (48, 39826), (Start: 60 @39865 has 1 MA's), (Start: 64 @39880 has 153 MA's), (84, 39997), (87, 40033), (92, 40048), (93, 40051), (112, 40207),

Gene: MacnCheese_71 Start: 44967, Stop: 45302, Start Num: 64

Candidate Starts for MacnCheese_71:

(49, 44913), (Start: 64 @44967 has 153 MA's), (88, 45126), (95, 45168), (99, 45183),

Gene: Makar_91 Start: 56322, Stop: 56687, Start Num: 57

Candidate Starts for Makar_91:

(Start: 57 @56322 has 30 MA's), (107, 56631), (108, 56646),

Gene: MalagasyRose_68 Start: 43493, Stop: 43888, Start Num: 59

Candidate Starts for MalagasyRose_68:

(45, 43436), (Start: 59 @43493 has 1 MA's), (86, 43661), (88, 43682), (92, 43694),

Gene: Malthus_74 Start: 44635, Stop: 45015, Start Num: 67

Candidate Starts for Malthus_74:

(Start: 67 @44635 has 21 MA's), (Start: 70 @44653 has 3 MA's), (87, 44815), (88, 44818), (97, 44866), (112, 44986),

Gene: Marcoliusprime_71 Start: 46501, Stop: 46845, Start Num: 66

Candidate Starts for Marcoliusprime_71:

(Start: 66 @46501 has 11 MA's), (86, 46642), (88, 46663), (92, 46675), (101, 46729),

Gene: MarkPhew_70 Start: 44007, Stop: 44354, Start Num: 64

Candidate Starts for MarkPhew_70:

(16, 43740), (27, 43818), (49, 43953), (Start: 64 @44007 has 153 MA's), (71, 44040), (73, 44043), (80, 44127), (86, 44166), (87, 44184), (88, 44187), (92, 44199), (100, 44247), (101, 44253),

Gene: Marshawn_67 Start: 44384, Stop: 44707, Start Num: 64

Candidate Starts for Marshawn_67:

(49, 44330), (Start: 64 @44384 has 153 MA's), (79, 44480), (80, 44489), (84, 44510), (86, 44528), (87, 44546), (88, 44549), (92, 44561), (101, 44615),

Gene: McMater_70 Start: 44359, Stop: 44739, Start Num: 63

Candidate Starts for McMater_70:

(9, 44050), (26, 44152), (27, 44161), (49, 44308), (Start: 63 @44359 has 5 MA's), (71, 44377), (86, 44503), (87, 44521), (88, 44524), (93, 44539), (96, 44572), (100, 44584), (101, 44590),

Gene: Mcklovin_65 Start: 48076, Stop: 48429, Start Num: 57

Candidate Starts for Mcklovin_65:

(Start: 57 @48076 has 30 MA's), (101, 48319), (109, 48403),

Gene: Mdavu_57 Start: 41172, Stop: 41543, Start Num: 69

Candidate Starts for Mdavu_57:

(26, 40959), (27, 40968), (35, 41010), (49, 41115), (Start: 69 @41172 has 9 MA's), (87, 41325), (88, 41328), (92, 41340), (93, 41343), (101, 41394),

Gene: MeaningOfLife_69 Start: 44849, Stop: 45220, Start Num: 64

Candidate Starts for MeaningOfLife_69:

(47, 44789), (48, 44795), (Start: 60 @44834 has 1 MA's), (Start: 64 @44849 has 153 MA's), (84, 44966), (87, 45002), (92, 45017), (93, 45020), (112, 45176),

Gene: Megsy_70 Start: 44274, Stop: 44645, Start Num: 64

Candidate Starts for Megsy_70:

(Start: 64 @44274 has 153 MA's), (84, 44391), (87, 44427), (92, 44442), (93, 44445), (112, 44601),

Gene: Milly_71 Start: 46475, Stop: 46819, Start Num: 66

Candidate Starts for Milly_71:

(Start: 66 @46475 has 11 MA's), (86, 46616), (88, 46637), (92, 46649), (101, 46703),

Gene: Minerva_106 Start: 62938, Stop: 63273, Start Num: 57

Candidate Starts for Minerva_106:

(Start: 57 @62938 has 30 MA's), (76, 63010), (101, 63184), (103, 63202),

Gene: Miryou_66 Start: 45908, Stop: 46288, Start Num: 64

Candidate Starts for Miryou_66:

(41, 45806), (46, 45836), (58, 45887), (Start: 64 @45908 has 153 MA's), (72, 45926), (86, 46052), (87, 46070), (92, 46085), (101, 46139), (106, 46175),

Gene: MissDaisy_70 Start: 43549, Stop: 43929, Start Num: 67

Candidate Starts for MissDaisy_70:

(Start: 67 @43549 has 21 MA's), (Start: 70 @43567 has 3 MA's), (87, 43729), (88, 43732), (97, 43780), (112, 43900),

Gene: Mitti_73 Start: 44790, Stop: 45170, Start Num: 67

Candidate Starts for Mitti_73:

(Start: 67 @44790 has 21 MA's), (Start: 70 @44808 has 3 MA's), (87, 44970), (88, 44973), (97, 45021), (112, 45141),

Gene: Mufasa_71 Start: 46061, Stop: 46405, Start Num: 66

Candidate Starts for Mufasa_71:

(Start: 66 @46061 has 11 MA's), (81, 46166), (86, 46205), (88, 46226), (92, 46238), (101, 46292), (102, 46307),

Gene: Murucutumbu_69 Start: 45130, Stop: 45501, Start Num: 64

Candidate Starts for Murucutumbu_69:

(Start: 64 @45130 has 153 MA's), (84, 45247), (87, 45283), (92, 45298), (93, 45301), (112, 45457),

Gene: Mynx_70 Start: 44709, Stop: 45080, Start Num: 64

Candidate Starts for Mynx_70:

(47, 44649), (48, 44655), (Start: 60 @44694 has 1 MA's), (Start: 64 @44709 has 153 MA's), (84, 44826), (87, 44862), (92, 44877), (93, 44880), (112, 45036),

Gene: Neighly_64 Start: 42687, Stop: 43067, Start Num: 64

Candidate Starts for Neighly_64:

(18, 42417), (19, 42426), (41, 42585), (46, 42615), (58, 42666), (Start: 60 @42672 has 1 MA's), (Start: 64 @42687 has 153 MA's), (86, 42831), (87, 42849), (92, 42864), (101, 42918), (106, 42954), (113, 43029),

Gene: Nergal_59 Start: 40436, Stop: 40837, Start Num: 61

Candidate Starts for Nergal_59:

(51, 40403), (Start: 61 @40436 has 1 MA's), (86, 40598), (87, 40616), (92, 40631), (99, 40676), (100, 40679), (101, 40685), (102, 40700),

Gene: Nibb_70 Start: 44218, Stop: 44553, Start Num: 63

Candidate Starts for Nibb_70:

(49, 44167), (Start: 63 @44218 has 5 MA's), (86, 44356), (88, 44377), (95, 44419), (99, 44434), (101, 44443), (104, 44467),

Gene: NihilNomen_108 Start: 63079, Stop: 63414, Start Num: 57

Candidate Starts for NihilNomen_108:

(Start: 57 @63079 has 30 MA's), (76, 63151), (101, 63325), (103, 63343),

Gene: Nikao_59 Start: 43796, Stop: 44167, Start Num: 69

Candidate Starts for Nikao_59:

(26, 43583), (27, 43592), (35, 43634), (49, 43739), (Start: 69 @43796 has 9 MA's), (87, 43949), (88, 43952), (92, 43964), (93, 43967), (101, 44018),

Gene: Niklas_70 Start: 44420, Stop: 44800, Start Num: 63

Candidate Starts for Niklas_70:

(9, 44111), (26, 44213), (27, 44222), (49, 44369), (Start: 63 @44420 has 5 MA's), (71, 44438), (86, 44564), (87, 44582), (88, 44585), (93, 44600), (96, 44633), (100, 44645), (101, 44651),

Gene: November_65 Start: 44103, Stop: 44429, Start Num: 64

Candidate Starts for November_65:

(49, 44052), (Start: 64 @44103 has 153 MA's), (87, 44259), (92, 44274), (93, 44277),

Gene: Nutello_56 Start: 41183, Stop: 41554, Start Num: 69

Candidate Starts for Nutello_56:

(26, 40970), (27, 40979), (35, 41021), (49, 41126), (Start: 69 @41183 has 9 MA's), (87, 41336), (88, 41339), (92, 41351), (93, 41354), (101, 41405),

Gene: Odette_108 Start: 62194, Stop: 62457, Start Num: 76

Candidate Starts for Odette_108:

(Start: 57 @62122 has 30 MA's), (76, 62194), (101, 62368), (103, 62386),

Gene: OkiRoe_63 Start: 43580, Stop: 43960, Start Num: 64

Candidate Starts for OkiRoe_63:

(41, 43478), (46, 43508), (58, 43559), (Start: 64 @43580 has 153 MA's), (72, 43598), (86, 43724), (87, 43742), (92, 43757),

Gene: OmniCritical_72 Start: 44741, Stop: 45103, Start Num: 70

Candidate Starts for OmniCritical_72:

(Start: 67 @44723 has 21 MA's), (Start: 70 @44741 has 3 MA's), (87, 44903), (88, 44906), (97, 44954), (112, 45074),

Gene: Omnicron_66 Start: 43686, Stop: 44066, Start Num: 64

Candidate Starts for Omnicron_66:

(41, 43584), (46, 43614), (58, 43665), (Start: 64 @43686 has 153 MA's), (72, 43704), (86, 43830), (87, 43848), (92, 43863), (97, 43902), (101, 43917), (106, 43953), (115, 44034),

Gene: Optimus_100 Start: 61613, Stop: 61945, Start Num: 57

Candidate Starts for Optimus_100:

(Start: 57 @61613 has 30 MA's), (88, 61793), (101, 61859), (103, 61877),

Gene: Oscar_71 Start: 44425, Stop: 44769, Start Num: 64

Candidate Starts for Oscar_71:

(6, 44116), (16, 44158), (27, 44236), (Start: 64 @44425 has 153 MA's), (71, 44455), (73, 44458), (80, 44542), (87, 44599), (88, 44602), (92, 44614), (101, 44668),

Gene: Padfoot_68 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for Padfoot_68:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: Padpat_71 Start: 44414, Stop: 44785, Start Num: 64

Candidate Starts for Padpat_71:

(47, 44354), (48, 44360), (Start: 60 @44399 has 1 MA's), (Start: 64 @44414 has 153 MA's), (84, 44531), (87, 44567), (92, 44582), (93, 44585), (112, 44741),

Gene: Paola_62 Start: 43165, Stop: 43545, Start Num: 64

Candidate Starts for Paola_62:

(41, 43063), (46, 43093), (58, 43144), (Start: 64 @43165 has 153 MA's), (72, 43183), (86, 43309), (87, 43327), (92, 43342), (101, 43396), (106, 43432),

Gene: Patt_69 Start: 43273, Stop: 43653, Start Num: 67

Candidate Starts for Patt_69:

(Start: 67 @43273 has 21 MA's), (Start: 70 @43291 has 3 MA's), (87, 43453), (88, 43456), (97, 43504), (112, 43624),

Gene: Peanam_70 Start: 44377, Stop: 44757, Start Num: 63

Candidate Starts for Peanam_70:

(9, 44068), (26, 44170), (27, 44179), (49, 44326), (Start: 63 @44377 has 5 MA's), (71, 44395), (86, 44521), (87, 44539), (88, 44542), (93, 44557), (96, 44590), (100, 44602), (101, 44608),

Gene: Peel_68 Start: 44099, Stop: 44470, Start Num: 64

Candidate Starts for Peel_68:

(47, 44039), (48, 44045), (Start: 60 @44084 has 1 MA's), (Start: 64 @44099 has 153 MA's), (84, 44216), (87, 44252), (92, 44267), (93, 44270), (112, 44426),

Gene: Pharb_68 Start: 43690, Stop: 44025, Start Num: 64

Candidate Starts for Pharb_68:

(26, 43477), (27, 43486), (49, 43636), (Start: 64 @43690 has 153 MA's), (75, 43726), (88, 43849), (93, 43864), (95, 43891), (99, 43906), (102, 43930), (105, 43945),

Gene: PhelpsODU_69 Start: 43630, Stop: 44004, Start Num: 64

Candidate Starts for PhelpsODU_69:

(49, 43576), (Start: 64 @43630 has 153 MA's), (87, 43786), (88, 43789), (93, 43804), (99, 43846),

Gene: Phrank_71 Start: 43693, Stop: 44067, Start Num: 64

Candidate Starts for Phrank_71:

(49, 43639), (Start: 64 @43693 has 153 MA's), (87, 43849), (99, 43909),

Gene: Piatt_68 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for Piatt_68:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: Pisa1_67 Start: 44679, Stop: 45050, Start Num: 64

Candidate Starts for Pisa1_67:

(7, 44358), (27, 44475), (49, 44625), (Start: 64 @44679 has 153 MA's), (84, 44796), (87, 44832), (92, 44847), (93, 44850), (112, 45006),

Gene: Pisa4_61 Start: 40048, Stop: 40419, Start Num: 64

Candidate Starts for Pisa4_61:

(7, 39727), (27, 39844), (49, 39994), (Start: 64 @40048 has 153 MA's), (84, 40165), (87, 40201), (92, 40216), (93, 40219), (112, 40375),

Gene: Pixie_68 Start: 43865, Stop: 44236, Start Num: 64

Candidate Starts for Pixie_68:

(49, 43811), (Start: 64 @43865 has 153 MA's), (75, 43901), (77, 43916), (88, 44024), (99, 44081), (102, 44105), (112, 44195), (114, 44204),

Gene: Pokerus_68 Start: 44439, Stop: 44810, Start Num: 64

Candidate Starts for Pokerus_68:

(47, 44379), (48, 44385), (Start: 60 @44424 has 1 MA's), (Start: 64 @44439 has 153 MA's), (84, 44556), (87, 44592), (92, 44607), (93, 44610), (112, 44766),

Gene: Prithvi_69 Start: 44352, Stop: 44723, Start Num: 64

Candidate Starts for Prithvi_69:

(Start: 64 @44352 has 153 MA's), (84, 44469), (87, 44505), (92, 44520), (93, 44523), (112, 44679),

Gene: Psycho_62 Start: 41813, Stop: 42193, Start Num: 64

Candidate Starts for Psycho_62:

(18, 41543), (19, 41552), (41, 41711), (46, 41741), (58, 41792), (Start: 60 @41798 has 1 MA's), (Start: 64 @41813 has 153 MA's), (86, 41957), (87, 41975), (92, 41990), (101, 42044), (106, 42080), (113, 42155),

Gene: Purplicious_87 Start: 55615, Stop: 55980, Start Num: 57

Candidate Starts for Purplicious_87:

(30, 55453), (Start: 57 @55615 has 30 MA's), (101, 55858), (107, 55924), (108, 55939),

Gene: Qhanda_75 Start: 44669, Stop: 45031, Start Num: 70

Candidate Starts for Qhanda_75:

(Start: 67 @44651 has 21 MA's), (Start: 70 @44669 has 3 MA's), (87, 44831), (88, 44834), (97, 44882), (112, 45002),

Gene: QuincyRose_66 Start: 44320, Stop: 44691, Start Num: 64

Candidate Starts for QuincyRose_66:

(47, 44260), (48, 44266), (Start: 60 @44305 has 1 MA's), (Start: 64 @44320 has 153 MA's), (84, 44437), (87, 44473), (92, 44488), (93, 44491), (112, 44647),

Gene: Ramen_69 Start: 43944, Stop: 44315, Start Num: 64

Candidate Starts for Ramen_69:

(47, 43884), (48, 43890), (Start: 60 @43929 has 1 MA's), (Start: 64 @43944 has 153 MA's), (84, 44061), (87, 44097), (92, 44112), (93, 44115), (112, 44271),

Gene: Rando14_65 Start: 42494, Stop: 42874, Start Num: 64

Candidate Starts for Rando14_65:

(Start: 64 @42494 has 153 MA's), (86, 42638), (87, 42656), (92, 42671), (101, 42725), (106, 42761), (115, 42842),

Gene: Rapunzel97_70 Start: 44395, Stop: 44766, Start Num: 64

Candidate Starts for Rapunzel97_70:

(47, 44335), (48, 44341), (Start: 60 @44380 has 1 MA's), (Start: 64 @44395 has 153 MA's), (84, 44512), (87, 44548), (92, 44563), (93, 44566), (112, 44722),

Gene: Redno2_98 Start: 58813, Stop: 59148, Start Num: 57

Candidate Starts for Redno2_98:

(Start: 57 @58813 has 30 MA's), (76, 58885), (101, 59059), (103, 59077),

Gene: Reptar3000_70 Start: 43262, Stop: 43642, Start Num: 67

Candidate Starts for Reptar3000_70:

(Start: 67 @43262 has 21 MA's), (Start: 70 @43280 has 3 MA's), (87, 43442), (88, 43445), (97, 43493), (112, 43613),

Gene: Richo_70 Start: 44359, Stop: 44739, Start Num: 63

Candidate Starts for Richo_70:

(9, 44050), (26, 44152), (27, 44161), (49, 44308), (Start: 63 @44359 has 5 MA's), (71, 44377), (86, 44503), (87, 44521), (88, 44524), (93, 44539), (96, 44572), (100, 44584), (101, 44590),

Gene: Rosmarinus_68 Start: 44085, Stop: 44456, Start Num: 64

Candidate Starts for Rosmarinus_68:

(47, 44025), (48, 44031), (Start: 60 @44070 has 1 MA's), (Start: 64 @44085 has 153 MA's), (84, 44202), (87, 44238), (92, 44253), (93, 44256), (112, 44412),

Gene: Ruthiejr_74 Start: 44734, Stop: 45114, Start Num: 67

Candidate Starts for Ruthiejr_74:

(Start: 67 @44734 has 21 MA's), (Start: 70 @44752 has 3 MA's), (87, 44914), (88, 44917), (97, 44965), (112, 45085),

Gene: SamScheppers_71 Start: 45114, Stop: 45494, Start Num: 67

Candidate Starts for SamScheppers_71:

(Start: 67 @45114 has 21 MA's), (Start: 70 @45132 has 3 MA's), (87, 45294), (88, 45297), (97, 45345), (112, 45465),

Gene: SamuelLPlaqson_68 Start: 44604, Stop: 44975, Start Num: 64

Candidate Starts for SamuelLPlaqson_68:

(26, 44391), (27, 44400), (49, 44550), (Start: 64 @44604 has 153 MA's), (86, 44739), (87, 44757), (92, 44772), (112, 44931),

Gene: Scarlett_72 Start: 44755, Stop: 45099, Start Num: 64

Candidate Starts for Scarlett_72:

(6, 44446), (16, 44488), (27, 44566), (Start: 64 @44755 has 153 MA's), (71, 44785), (73, 44788), (80, 44872), (87, 44929), (88, 44932), (92, 44944), (101, 44998),

Gene: Schatzie_101 Start: 61869, Stop: 62204, Start Num: 57

Candidate Starts for Schatzie_101:

(Start: 57 @61869 has 30 MA's), (76, 61941), (101, 62115), (103, 62133),

Gene: SgtBeansprout_57 Start: 41183, Stop: 41554, Start Num: 69

Candidate Starts for SgtBeansprout_57:

(26, 40970), (27, 40979), (35, 41021), (49, 41126), (Start: 69 @41183 has 9 MA's), (87, 41336), (88, 41339), (92, 41351), (93, 41354), (101, 41405),

Gene: Shadow1_72 Start: 44143, Stop: 44517, Start Num: 64

Candidate Starts for Shadow1_72:

(26, 43933), (27, 43942), (Start: 64 @44143 has 153 MA's), (88, 44302), (99, 44359), (112, 44473),

Gene: Shaobing_70 Start: 44395, Stop: 44775, Start Num: 63

Candidate Starts for Shaobing_70:

(9, 44086), (26, 44188), (27, 44197), (49, 44344), (Start: 63 @44395 has 5 MA's), (71, 44413), (86, 44539), (87, 44557), (88, 44560), (93, 44575), (96, 44608), (100, 44620), (101, 44626),

Gene: ShedlockHolmes_70 Start: 44378, Stop: 44749, Start Num: 64

Candidate Starts for ShedlockHolmes_70:

(27, 44174), (49, 44324), (Start: 64 @44378 has 153 MA's), (75, 44414), (77, 44429), (88, 44537), (99, 44594), (102, 44618), (114, 44717),

Gene: ShiaSurprise_69 Start: 44294, Stop: 44665, Start Num: 64

Candidate Starts for ShiaSurprise_69:

(25, 44084), (47, 44234), (48, 44240), (Start: 60 @44279 has 1 MA's), (Start: 64 @44294 has 153 MA's), (84, 44411), (87, 44447), (92, 44462), (93, 44465), (112, 44621),

Gene: SirPhilip_67 Start: 44537, Stop: 44893, Start Num: 64

Candidate Starts for SirPhilip_67:

(16, 44258), (27, 44336), (49, 44483), (Start: 64 @44537 has 153 MA's), (68, 44555), (71, 44570), (86, 44696), (87, 44714), (92, 44729), (101, 44783),

Gene: Slarp_73 Start: 44642, Stop: 45022, Start Num: 67

Candidate Starts for Slarp_73:

(Start: 67 @44642 has 21 MA's), (Start: 70 @44660 has 3 MA's), (87, 44822), (88, 44825), (97, 44873), (112, 44993),

Gene: Slimphazie_69 Start: 44395, Stop: 44766, Start Num: 64

Candidate Starts for Slimphazie_69:

(47, 44335), (48, 44341), (Start: 60 @44380 has 1 MA's), (Start: 64 @44395 has 153 MA's), (84, 44512), (87, 44548), (92, 44563), (93, 44566), (112, 44722),

Gene: SoSeph_63 Start: 43532, Stop: 43912, Start Num: 64

Candidate Starts for SoSeph_63:

(41, 43430), (46, 43460), (58, 43511), (Start: 64 @43532 has 153 MA's), (72, 43550), (86, 43676), (87, 43694), (92, 43709),

Gene: Soos_83 Start: 55576, Stop: 55950, Start Num: 57

Candidate Starts for Soos_83:

(30, 55414), (Start: 57 @55576 has 30 MA's), (98, 55807), (99, 55810), (108, 55906), (115, 55936),

Gene: Spock_68 Start: 44098, Stop: 44469, Start Num: 64

Candidate Starts for Spock_68:

(47, 44038), (48, 44044), (Start: 60 @44083 has 1 MA's), (Start: 64 @44098 has 153 MA's), (84, 44215), (87, 44251), (92, 44266), (93, 44269), (112, 44425),

Gene: Sting_86 Start: 56015, Stop: 56389, Start Num: 57

Candidate Starts for Sting_86:

(30, 55853), (Start: 57 @56015 has 30 MA's), (98, 56246), (99, 56249), (108, 56345), (115, 56375),

Gene: Stinson_69 Start: 44490, Stop: 44861, Start Num: 64

Candidate Starts for Stinson_69:

(Start: 64 @44490 has 153 MA's), (84, 44607), (87, 44643), (92, 44658), (93, 44661), (112, 44817),

Gene: Strobilo_72 Start: 46477, Stop: 46821, Start Num: 66

Candidate Starts for Strobilo_72:

(Start: 66 @46477 has 11 MA's), (86, 46618), (88, 46639), (92, 46651), (101, 46705),

Gene: Sulley_67 Start: 43925, Stop: 44296, Start Num: 64

Candidate Starts for Sulley_67:

(26, 43712), (27, 43721), (49, 43871), (Start: 64 @43925 has 153 MA's), (84, 44042), (87, 44078), (92, 44093), (93, 44096), (112, 44252),

Gene: Sunflower1121_73 Start: 44289, Stop: 44663, Start Num: 64

Candidate Starts for Sunflower1121_73:

(26, 44079), (27, 44088), (Start: 64 @44289 has 153 MA's), (88, 44448), (99, 44505), (112, 44619),

Gene: Syra333_71 Start: 44003, Stop: 44377, Start Num: 64

Candidate Starts for Syra333_71:

(26, 43793), (27, 43802), (Start: 64 @44003 has 153 MA's), (88, 44162), (99, 44219), (112, 44333),

Gene: TBond007_65 Start: 43864, Stop: 44235, Start Num: 64

Candidate Starts for TBond007_65:

(49, 43810), (Start: 64 @43864 has 153 MA's), (75, 43900), (77, 43915), (88, 44023), (99, 44080), (102, 44104), (112, 44194), (114, 44203),

Gene: TClif_69 Start: 43964, Stop: 44338, Start Num: 64

Candidate Starts for TClif_69:

(27, 43763), (49, 43910), (Start: 64 @43964 has 153 MA's), (86, 44102), (93, 44138), (99, 44180),

Gene: TM4_69 Start: 41139, Stop: 41513, Start Num: 66

Candidate Starts for TM4_69:

(Start: 66 @41139 has 11 MA's), (81, 41244), (86, 41283), (88, 41304), (92, 41316), (101, 41370), (102, 41385),

Gene: Tachez_68 Start: 43942, Stop: 44313, Start Num: 64

Candidate Starts for Tachez_68:

(47, 43882), (48, 43888), (Start: 60 @43927 has 1 MA's), (Start: 64 @43942 has 153 MA's), (84, 44059), (87, 44095), (92, 44110), (93, 44113), (112, 44269),

Gene: TaiwanKao_70 Start: 44414, Stop: 44785, Start Num: 64

Candidate Starts for TaiwanKao_70:

(Start: 64 @44414 has 153 MA's), (84, 44531), (87, 44567), (92, 44582), (93, 44585), (112, 44741),

Gene: Tapioca_59 Start: 39339, Stop: 39740, Start Num: 57

Candidate Starts for Tapioca_59:

(4, 39042), (20, 39117), (24, 39156), (40, 39264), (42, 39270), (44, 39288), (Start: 57 @39339 has 30 MA's), (89, 39522), (101, 39585), (108, 39672),

Gene: Taquito_72 Start: 44847, Stop: 45227, Start Num: 67

Candidate Starts for Taquito_72:

(Start: 67 @44847 has 21 MA's), (Start: 70 @44865 has 3 MA's), (87, 45027), (88, 45030), (97, 45078), (112, 45198),

Gene: Teejan_58 Start: 43796, Stop: 44167, Start Num: 69

Candidate Starts for Teejan_58:

(26, 43583), (27, 43592), (35, 43634), (49, 43739), (Start: 69 @43796 has 9 MA's), (87, 43949), (88, 43952), (92, 43964), (93, 43967), (101, 44018),

Gene: ThreeRngTarjay_103 Start: 63154, Stop: 63486, Start Num: 57

Candidate Starts for ThreeRngTarjay_103:

(Start: 57 @63154 has 30 MA's), (88, 63334), (101, 63400), (103, 63418),

Gene: Thyatira_65 Start: 45497, Stop: 45877, Start Num: 64

Candidate Starts for Thyatira_65:

(41, 45395), (46, 45425), (58, 45476), (Start: 64 @45497 has 153 MA's), (72, 45515), (86, 45641), (87, 45659), (92, 45674),

Gene: Tierra_71 Start: 44504, Stop: 44878, Start Num: 64

Candidate Starts for Tierra_71:

(49, 44450), (Start: 64 @44504 has 153 MA's), (87, 44660), (99, 44720),

Gene: Tigress9_72 Start: 44320, Stop: 44694, Start Num: 64

Candidate Starts for Tigress9_72:

(26, 44110), (27, 44119), (Start: 64 @44320 has 153 MA's), (88, 44479), (99, 44536), (112, 44650),

Gene: TingHuaYa_71 Start: 43669, Stop: 44040, Start Num: 64

Candidate Starts for TingHuaYa_71:

(Start: 64 @43669 has 153 MA's), (87, 43822), (92, 43837), (112, 43996),

Gene: TiniBug_68 Start: 44600, Stop: 44971, Start Num: 64

Candidate Starts for TiniBug_68:

(27, 44396), (49, 44546), (Start: 64 @44600 has 153 MA's), (86, 44735), (87, 44753), (92, 44768), (93, 44771), (112, 44927),

Gene: Tiri_68 Start: 43998, Stop: 44369, Start Num: 64
Candidate Starts for Tiri_68:
(Start: 64 @43998 has 153 MA's), (84, 44115), (87, 44151), (92, 44166), (93, 44169), (112, 44325),

Gene: Topper_68 Start: 44097, Stop: 44468, Start Num: 64
Candidate Starts for Topper_68:
(47, 44037), (48, 44043), (Start: 60 @44082 has 1 MA's), (Start: 64 @44097 has 153 MA's), (84, 44214), (87, 44250), (92, 44265), (93, 44268), (112, 44424),

Gene: Torres_59 Start: 43797, Stop: 44168, Start Num: 69
Candidate Starts for Torres_59:
(26, 43584), (27, 43593), (35, 43635), (49, 43740), (Start: 69 @43797 has 9 MA's), (87, 43950), (88, 43953), (92, 43965), (93, 43968), (101, 44019),

Gene: Tortellini_67 Start: 45000, Stop: 45356, Start Num: 57
Candidate Starts for Tortellini_67:
(40, 44925), (42, 44931), (44, 44949), (Start: 57 @45000 has 30 MA's), (89, 45183), (101, 45246), (108, 45333),

Gene: TreyKay_69 Start: 44352, Stop: 44723, Start Num: 64
Candidate Starts for TreyKay_69:
(Start: 64 @44352 has 153 MA's), (84, 44469), (87, 44505), (92, 44520), (93, 44523), (112, 44679),

Gene: TribbleTrouble_69 Start: 44867, Stop: 45202, Start Num: 64
Candidate Starts for TribbleTrouble_69:
(49, 44813), (Start: 64 @44867 has 153 MA's), (84, 44987), (88, 45026), (93, 45041), (95, 45068), (99, 45083), (102, 45107),

Gene: Trice_56 Start: 41184, Stop: 41555, Start Num: 69
Candidate Starts for Trice_56:
(26, 40971), (27, 40980), (35, 41022), (49, 41127), (Start: 69 @41184 has 9 MA's), (87, 41337), (88, 41340), (92, 41352), (93, 41355), (101, 41406),

Gene: TruffulaTree_69 Start: 44391, Stop: 44762, Start Num: 64
Candidate Starts for TruffulaTree_69:
(47, 44331), (48, 44337), (Start: 60 @44376 has 1 MA's), (Start: 64 @44391 has 153 MA's), (84, 44508), (87, 44544), (92, 44559), (93, 44562), (112, 44718),

Gene: Twitch_68 Start: 44099, Stop: 44470, Start Num: 64
Candidate Starts for Twitch_68:
(47, 44039), (48, 44045), (Start: 60 @44084 has 1 MA's), (Start: 64 @44099 has 153 MA's), (84, 44216), (87, 44252), (92, 44267), (93, 44270), (112, 44426),

Gene: Unicorn_69 Start: 43630, Stop: 44004, Start Num: 64
Candidate Starts for Unicorn_69:
(49, 43576), (Start: 64 @43630 has 153 MA's), (87, 43786), (88, 43789), (93, 43804), (99, 43846),

Gene: Urkel_68 Start: 44604, Stop: 44975, Start Num: 64
Candidate Starts for Urkel_68:
(26, 44391), (27, 44400), (49, 44550), (Start: 64 @44604 has 153 MA's), (86, 44739), (87, 44757), (92, 44772), (112, 44931),

Gene: Validus_73 Start: 44948, Stop: 45340, Start Num: 56

Candidate Starts for Validus_73:

(42, 44876), (52, 44927), (53, 44933), (Start: 56 @44948 has 1 MA's), (62, 44966), (71, 44981), (86, 45107), (87, 45125), (88, 45128), (92, 45140), (93, 45143), (100, 45188), (101, 45194), (112, 45299), (116, 45317),

Gene: Veliki_69 Start: 44131, Stop: 44502, Start Num: 64

Candidate Starts for Veliki_69:

(Start: 64 @44131 has 153 MA's), (84, 44248), (87, 44284), (92, 44299), (93, 44302), (112, 44458),

Gene: ViviJ_61 Start: 41251, Stop: 41631, Start Num: 64

Candidate Starts for ViviJ_61:

(41, 41161), (46, 41191), (58, 41230), (Start: 60 @41236 has 1 MA's), (Start: 64 @41251 has 153 MA's), (82, 41359), (86, 41395), (87, 41413), (92, 41428), (106, 41518), (113, 41593),

Gene: WST1_55 Start: 33447, Stop: 33824, Start Num: 54

Candidate Starts for WST1_55:

(54, 33447), (Start: 57 @33459 has 30 MA's), (89, 33642), (101, 33705), (108, 33792), (112, 33810), (114, 33819),

Gene: Waterfoul_64 Start: 43594, Stop: 43974, Start Num: 64

Candidate Starts for Waterfoul_64:

(41, 43492), (46, 43522), (58, 43573), (Start: 64 @43594 has 153 MA's), (72, 43612), (86, 43738), (87, 43756), (92, 43771),

Gene: Willsammy_60 Start: 40682, Stop: 41095, Start Num: 57

Candidate Starts for Willsammy_60:

(14, 40418), (23, 40487), (33, 40535), (40, 40607), (42, 40613), (44, 40631), (Start: 57 @40682 has 30 MA's), (89, 40865), (101, 40928),

Gene: Wintermute_73 Start: 44872, Stop: 45252, Start Num: 67

Candidate Starts for Wintermute_73:

(Start: 67 @44872 has 21 MA's), (Start: 70 @44890 has 3 MA's), (87, 45052), (88, 45055), (97, 45103), (112, 45223),

Gene: Ximenita_73 Start: 44332, Stop: 44706, Start Num: 64

Candidate Starts for Ximenita_73:

(Start: 64 @44332 has 153 MA's), (87, 44488), (88, 44491), (99, 44548), (112, 44662),

Gene: Y10_70 Start: 44849, Stop: 45229, Start Num: 67

Candidate Starts for Y10_70:

(Start: 67 @44849 has 21 MA's), (Start: 70 @44867 has 3 MA's), (87, 45029), (88, 45032), (97, 45080), (112, 45200),

Gene: Y2_70 Start: 44849, Stop: 45229, Start Num: 67

Candidate Starts for Y2_70:

(Start: 67 @44849 has 21 MA's), (Start: 70 @44867 has 3 MA's), (87, 45029), (88, 45032), (97, 45080), (112, 45200),

Gene: YasnayaPolyana_72 Start: 44716, Stop: 45078, Start Num: 70

Candidate Starts for YasnayaPolyana_72:

(Start: 67 @44698 has 21 MA's), (Start: 70 @44716 has 3 MA's), (87, 44878), (88, 44881), (97, 44929), (112, 45049),

Gene: YoureAdopted_67 Start: 44277, Stop: 44648, Start Num: 64

Candidate Starts for YoureAdopted_67:

(26, 44064), (27, 44073), (49, 44223), (Start: 64 @44277 has 153 MA's), (84, 44394), (87, 44430), (92, 44445), (93, 44448), (112, 44604),

Gene: Yuna_72 Start: 45450, Stop: 45779, Start Num: 63

Candidate Starts for Yuna_72:

(Start: 63 @45450 has 5 MA's), (95, 45651), (99, 45666),

Gene: Yunkel11_72 Start: 44191, Stop: 44562, Start Num: 64

Candidate Starts for Yunkel11_72:

(49, 44137), (Start: 64 @44191 has 153 MA's), (84, 44308), (87, 44344), (92, 44359), (93, 44362), (112, 44518),

Gene: Zabiza_63 Start: 40247, Stop: 40618, Start Num: 64

Candidate Starts for Zabiza_63:

(47, 40187), (48, 40193), (Start: 60 @40232 has 1 MA's), (Start: 64 @40247 has 153 MA's), (84, 40364), (87, 40400), (92, 40415), (93, 40418), (112, 40574),

Gene: Zavala_71 Start: 44669, Stop: 45040, Start Num: 64

Candidate Starts for Zavala_71:

(47, 44609), (48, 44615), (Start: 60 @44654 has 1 MA's), (Start: 64 @44669 has 153 MA's), (84, 44786), (87, 44822), (92, 44837), (93, 44840), (112, 44996),

Gene: ZenTime222_58 Start: 39792, Stop: 40148, Start Num: 57

Candidate Starts for ZenTime222_58:

(Start: 57 @39792 has 30 MA's), (89, 39975), (101, 40038), (108, 40125),

Gene: ZoeJ_70 Start: 45880, Stop: 46251, Start Num: 66

Candidate Starts for ZoeJ_70:

(Start: 66 @45880 has 11 MA's), (83, 45988), (86, 46021), (88, 46042), (92, 46054), (101, 46108), (102, 46123),

Gene: Zucker_83 Start: 48730, Stop: 49089, Start Num: 55

Candidate Starts for Zucker_83:

(Start: 55 @48730 has 2 MA's), (85, 48886), (90, 48919), (101, 48979), (110, 49072),