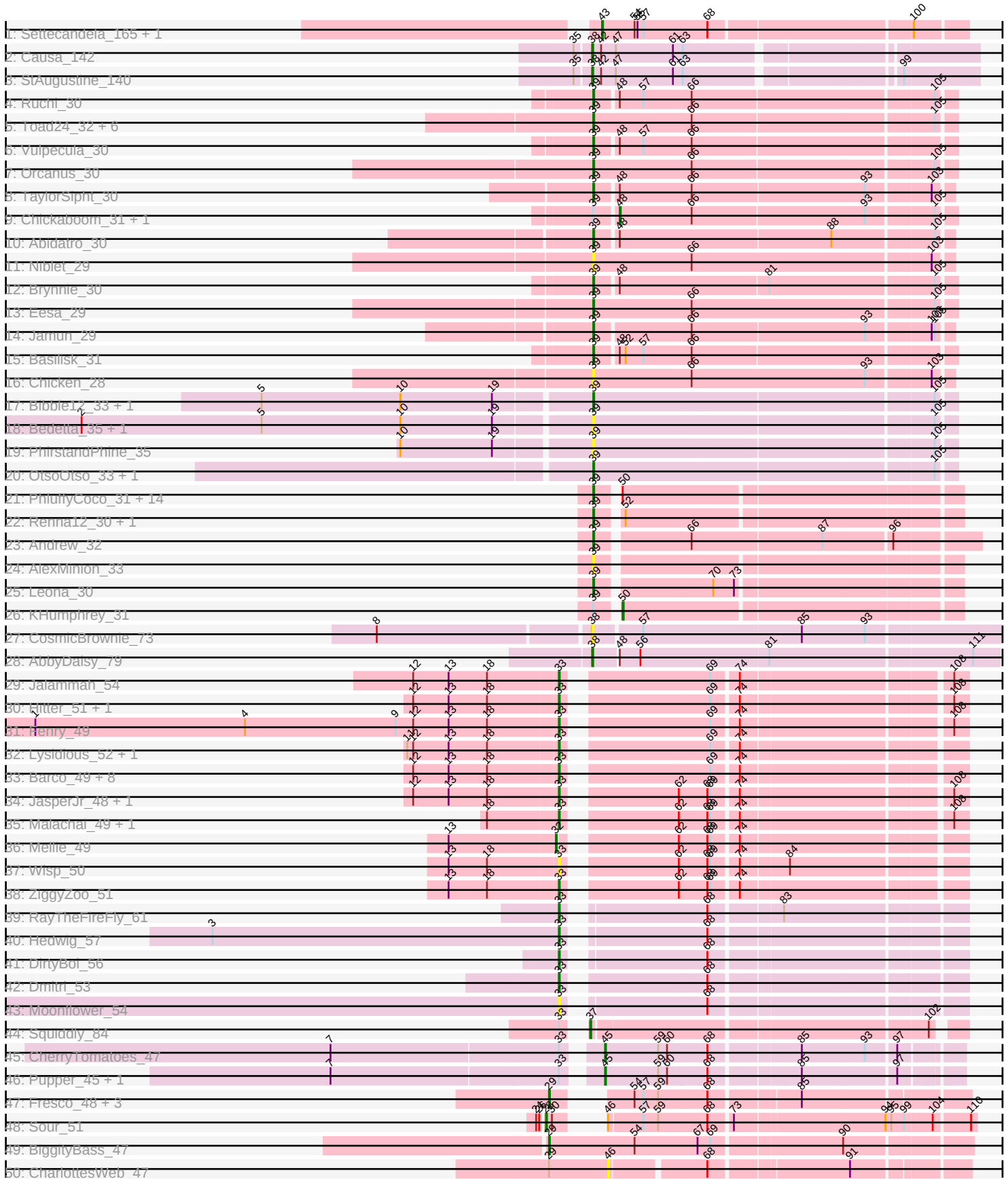
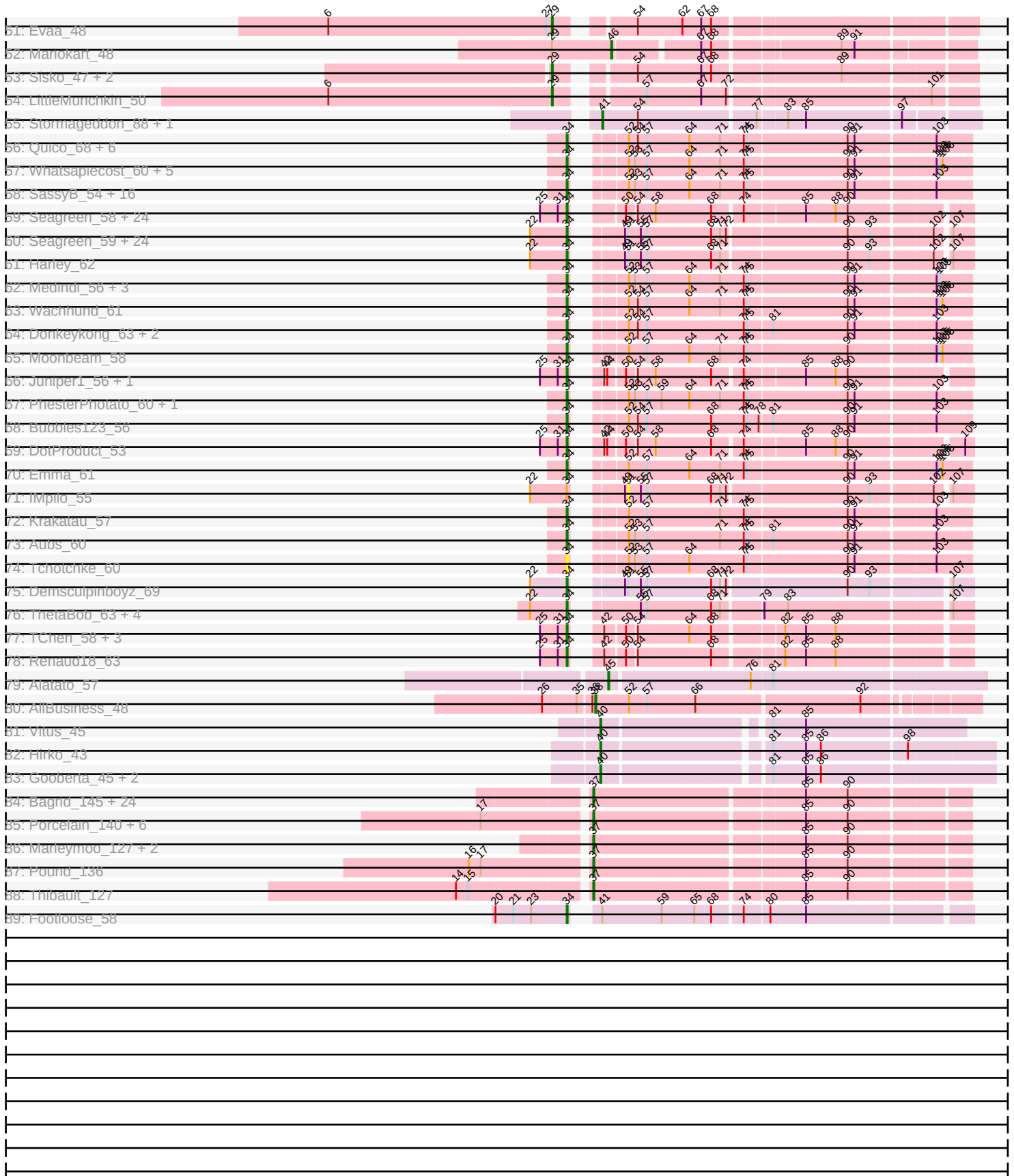


Pham 280054



Pham 280054



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 280054 Report

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

Pham number 280054 has 257 members, 45 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_165, Phrappuccino_165
- Track 2 : Causa_142
- Track 3 : StAugustine_140
- Track 4 : Ruchi_30
- Track 5 : Toad24_32, KendraB23_34, Pelletreau_33, Gravel_33, Zixiang_29, Westrich_33, Amanises_34
- Track 6 : Vulpecula_30
- Track 7 : Orcanus_30
- Track 8 : TaylorSipht_30
- Track 9 : Chickaboom_31, WileyE_32
- Track 10 : Abidatro_30
- Track 11 : Niblet_29
- Track 12 : Brynnie_30
- Track 13 : Eesa_29
- Track 14 : Jamun_29
- Track 15 : Basilisk_31
- Track 16 : Chicken_28
- Track 17 : Bibble12_33, Colusalem_33
- Track 18 : Bedetta_35, Pineda_34
- Track 19 : PhirstandPhine_35
- Track 20 : OtsoOtso_33, Polka_32
- Track 21 : PhluffyCoco_31, Atlantica_31, RedFox_31, Camara_31, AdoptaAdorbs_30, HamCheese_31, Glotell_32, Oppalora_30, Laphuphu24k_30, Amphitrite_31, Fingolfin_31, AmiCi24_30, Juno112_30, Rattail_31, DanHam62_31
- Track 22 : Renna12_30, Babushka_28
- Track 23 : Andrew_32
- Track 24 : AlexMinion_33
- Track 25 : Leona_30
- Track 26 : KHumphrey_31
- Track 27 : CosmicBrownie_73
- Track 28 : AbbyDaisy_79
- Track 29 : Jalammah_54
- Track 30 : Hitter_51, Samba_50
- Track 31 : Fenry_49
- Track 32 : Lysidious_52, Utz_44
- Track 33 : Barco_49, CaptainKirk2_51, Delian_54, Zarbodnamra_50, Archis_54, MintFen_51, Zilla_50, BlingBling_48, Melba_50

- Track 34 : JasperJr_48, Guacamole_48
- Track 35 : Malachai_49, Begonia_49
- Track 36 : Mellie_49
- Track 37 : Wisp_50
- Track 38 : ZiggyZoo_51
- Track 39 : RayTheFireFly_61
- Track 40 : Hedwig_57
- Track 41 : DirtyBoi_56
- Track 42 : Dmitri_53
- Track 43 : Moonflower_54
- Track 44 : Squiddly_84
- Track 45 : CherryTomatoes_47
- Track 46 : Pupper_45, SCentae_45
- Track 47 : Fresco_48, Axumite_48, Ligma_48, Shatter_48
- Track 48 : Sour_51
- Track 49 : BiggityBass_47
- Track 50 : CharlottesWeb_47
- Track 51 : Eva_48
- Track 52 : Mariokart_48
- Track 53 : Sisko_47, Yago84_47, AnClar_48
- Track 54 : LittleMunchkin_50
- Track 55 : Stormageddon_88, RedWattleHog_91
- Track 56 : Quico_68, Minnie_63, Girafales_69, Florinda_71, Bipolar_58, Fruitloop_57, Sandalphon_61
- Track 57 : Whatsapiecost_60, Hamulus_61, Akhila_51, Ogopogo_65, Flathead_60, MilanaBonita_50
- Track 58 : SassyB_54, SilverChicken_70, Phanphagia_57, Beakin_61, DLane_55, Ardmore_52, Kenuha5_57, Melissauen88_58, Bobi_65, PopTart_54, Chevrolet_65, SuperGrey_63, TDanisky_67, Sparkdehlily_67, ArcusAngelus_62, Ms6_55, Tweety_59
- Track 59 : Seagreen_58, Sarma624_56, Kimberlium_60, Cornie_53, BigPhil_54, QuickMath_59, Demsculpinboyz_68, JalFarm20_71, Kingsley_55, Topiatin_65, Harley_61, Velveteen_53, Jant_62, Starcevich_57, Cheesepuff_64, Brookers_55, Che8_63, Che9d_66, Coco12_57, Royals2015_61, Juice456_59, DoRead_60, Cerasum_54, Ovechkin_57, MulchExplorer_64
- Track 60 : Seagreen_59, Sarma624_57, QuickMath_60, Che8_64, Royals2015_62, Jant_63, Kimberlium_61, BigPhil_55, Cornie_54, Kingsley_56, JalFarm20_72, Starcevich_58, Velveteen_54, Juniper1_57, Cheesepuff_65, MulchExplorer_65, Brookers_56, Cerasum_55, DotProduct_54, Che9d_67, Coco12_58, Juice456_60, DoRead_61, Ovechkin_58, Topiatin_66
- Track 61 : Harley_62
- Track 62 : Medindi_56, Filuzino_58, XFactor_58, StAnnes_58
- Track 63 : Wachhund_61
- Track 64 : Donkeykong_63, Squirty_62, Shauna1_58
- Track 65 : Moonbeam_58
- Track 66 : Juniper1_56, IMpilo_54
- Track 67 : PhesterPhotato_60, Phalconet_58
- Track 68 : Bubbles123_56
- Track 69 : DotProduct_53
- Track 70 : Emma_61
- Track 71 : IMpilo_55
- Track 72 : Krakatau_57
- Track 73 : Aubs_60

- Track 74 : Tchotchke_60
- Track 75 : Demsculpinboyz_69
- Track 76 : ThetaBob_63, TChen_59, Renaud18_64, Yoshi_71, LunaStella_57
- Track 77 : TChen_58, LunaStella_56, ThetaBob_62, Yoshi_70
- Track 78 : Renaud18_63
- Track 79 : Alatato_57
- Track 80 : AllBusiness_48
- Track 81 : Vitus_45
- Track 82 : Hirko_43
- Track 83 : Gooberta_45, GoldDust_45, Vibaki_44
- Track 84 : Bagrid_145, Kalah2_135, Optimus_135, Schatzie_140, Halley_146, Duke13_140, BAKA_144, Dove_130, NihilNomen_146, DmpstrDiver_145, Wanda_144, JuicyJay_140, Odette_148, ThreeRngTarjay_139, EricMillard_136, Ejimix_137, Dallas_145, Minerva_144, Constella_138, Beem_146, Phoebus_144, Hughesyang_143, Klein_142, Zelink_139, Bombitas_132
- Track 85 : Porcelain_140, Redno2_139, Lucky2013_136, Yeet_138, HokkenD_137, MiaZeal_143, KashFlow_143
- Track 86 : Marleymoo_127, Hidrated_130, Bobby_134
- Track 87 : Pound_136
- Track 88 : Thibault_127
- Track 89 : Footloose_58

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

The start number called the most often in the published annotations is 34, it was called in 100 of the 212 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_51, ArcusAngelus_62, Ardmore_52, Aubs_60, Beakin_61, BigPhil_54, BigPhil_55, Bipolar_58, Bobi_65, Brookers_55, Brookers_56, Bubbles123_56, Cerasum_54, Cerasum_55, Che8_63, Che8_64, Che9d_66, Che9d_67, CheesePuff_64, CheesePuff_65, Chevrolet_65, Coco12_57, Coco12_58, Cornie_53, Cornie_54, DLane_55, Demsculpinboyz_68, Demsculpinboyz_69, DoRead_60, DoRead_61, Donkeykong_63, DotProduct_53, DotProduct_54, Emma_61, Filuzino_58, Flathead_60, Florinda_71, Footloose_58, Fruitloop_57, Girafales_69, Hamulus_61, Harley_61, Harley_62, IMPilo_54, JalFarm20_71, JalFarm20_72, Jant_62, Jant_63, Juice456_59, Juice456_60, Juniper1_56, Juniper1_57, Kenuha5_57, Kimberlium_60, Kimberlium_61, Kingsley_55, Kingsley_56, Krakatau_57, LunaStella_56, LunaStella_57, Medindi_56, Melissauren88_58, MilanaBonita_50, Minnie_63, Moonbeam_58, Ms6_55, MulchExplorer_64, MulchExplorer_65, Ogopogo_65, Ovechkin_57, Ovechkin_58, Phalconet_58, Phanphagia_57, PhesterPhotato_60, PopTart_54, QuickMath_59, QuickMath_60, Quico_68, Renaud18_63, Renaud18_64, Royals2015_61, Royals2015_62, Sandalphon_61, Sarma624_56, Sarma624_57, SassyB_54, Seagreen_58, Seagreen_59, Shauna1_58, SilverChicken_70, Sparkdehlily_67, Squirty_62, StAnnes_58, Starceвич_57, Starceвич_58, SuperGrey_63, TChen_58, TChen_59, TDanisky_67, Tchotchke_60, ThetaBob_62, ThetaBob_63, Topiatin_65, Topiatin_66, Tweety_59, Velveteen_53, Velveteen_54, Wachhund_61, Whatsapiecost_60, XFactor_58, Yoshi_70, Yoshi_71,

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

- IMpilo_55,

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

- AbbyDaisy_79, Abidatro_30, AdoptaAdorbs_30, Alatato_57, AlexMinion_33, AllBusiness_48, Amanises_34, AmiCi24_30, Amphitrite_31, AnClar_48, Andrew_32, Archis_54, Atlantica_31, Axumite_48, BAKA_144, Babushka_28, Bagrid_145, Barco_49, Basilisk_31, Bedetta_35, Beem_146, Begonia_49, Bibble12_33, BiggityBass_47, BlingBling_48, Bobby_134, Bombitas_132, Brynnie_30, Camara_31, CaptainKirk2_51, Causa_142, CharlottesWeb_47, CherryTomatoes_47, Chickaboom_31, Chicken_28, Colusalem_33, Constella_138, CosmicBrownie_73, Dallas_145, DanHam62_31, Delian_54, DirtyBoi_56, Dmitri_53, DmpstrDiver_145, Dove_130, Duke13_140, Eesa_29, Ejimix_137, EricMillard_136, Evaa_48, Fenry_49, Fingolfin_31, Fresco_48, Glotell_32, GoldDust_45, Gooberta_45, Gravel_33, Guacamole_48, Halley_146, HamCheese_31, Hedwig_57, Hidrated_130, Hirko_43, Hitter_51, HokkenD_137, Hughesyang_143, Jalammah_54, Jamun_29, JasperJr_48, JuicyJay_140, Juno112_30, KHumphrey_31, Kalah2_135, KashFlow_143, KendraB23_34, Klein_142, Laphuphu24k_30, Leona_30, Ligma_48, LittleMunchkin_50, Lucky2013_136, Lysidious_52, Malachai_49, Mariokart_48, Marleymoo_127, Melba_50, Mellie_49, MiaZeal_143, Minerva_144, MintFen_51, Moonflower_54, Niblet_29, NihilNomen_146, Odette_148, Oppalora_30, Optimus_135, Orcanus_30, OtsoOtso_33, Pelletreau_33, PhirstandPhine_35, PhluffyCoco_31, Phoebus_144, Phrappuccino_165, Pineda_34, Polka_32, Porcelain_140, Pound_136, Pupper_45, Rattail_31, RayTheFireFly_61, RedFox_31, RedWattleHog_91, Redno2_139, Rennai2_30, Ruchi_30, SCentae_45, Samba_50, Schatzie_140, Settecandela_165, Shatter_48, Sisko_47, Sour_51, Squiddly_84, StAugustine_140, Stormageddon_88, TaylorSipht_30, Thibault_127, ThreeRngTarjay_139, Toad24_32, Utz_44, Vibaki_44, Vitus_45, Vulpecula_30, Wanda_144, Westrich_33, WileyE_32, Wisp_50, Yago84_47, Yeet_138, Zarbodnamra_50, Zelink_139, ZiggyZoo_51, Zilla_50, Zixiang_29,

Summary by start number:

Start 28:

- Found in 1 of 257 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sour_51 (DR),

Start 29:

- Found in 12 of 257 (4.7%) of genes in pham
- Manual Annotations of this start: 10 of 212
- Called 83.3% of time when present
- Phage (with cluster) where this start called: AnClar_48 (DR), Axumite_48 (DR), BiggityBass_47 (DR), Evaa_48 (DR), Fresco_48 (DR), Ligma_48 (DR), LittleMunchkin_50 (DR), Shatter_48 (DR), Sisko_47 (DR), Yago84_47 (DR),

Start 32:

- Found in 1 of 257 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mellie_49 (CV),

Start 33:

- Found in 30 of 257 (11.7%) of genes in pham
- Manual Annotations of this start: 23 of 212
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Archis_54 (CV), Barco_49 (CV), Begonia_49 (CV), BlingBling_48 (CV), CaptainKirk2_51 (CV), Delian_54 (CV), DirtyBoi_56 (DB), Dmitri_53 (DB), Fenry_49 (CV), Guacamole_48 (CV), Hedwig_57 (DB), Hitter_51 (CV), Jalammah_54 (CV), JasperJr_48 (CV), Lysidious_52 (CV), Malachai_49 (CV), Melba_50 (CV), MintFen_51 (CV), Moonflower_54 (DB), RayTheFireFly_61 (DB), Samba_50 (CV), Utz_44 (CV), Wisp_50 (CV), Zarbodnamra_50 (CV), ZiggyZoo_51 (CV), Zilla_50 (CV),

Start 34:

- Found in 113 of 257 (44.0%) of genes in pham
- Manual Annotations of this start: 100 of 212
- Called 99.1% of time when present
- Phage (with cluster) where this start called: Akhila_51 (F1), ArcusAngelus_62 (F1), Ardmore_52 (F1), Aubs_60 (F1), Beakin_61 (F1), BigPhil_54 (F1), BigPhil_55 (F1), Bipolar_58 (F1), Bobi_65 (F1), Brookers_55 (F1), Brookers_56 (F1), Bubbles123_56 (F1), Cerasum_54 (F1), Cerasum_55 (F1), Che8_63 (F1), Che8_64 (F1), Che9d_66 (F2), Che9d_67 (F2), Cheesepuff_64 (F1), Cheesepuff_65 (F1), Chevrolet_65 (F1), Coco12_57 (F1), Coco12_58 (F1), Cornie_53 (F5), Cornie_54 (F5), DLane_55 (F1), Demsculpinboyz_68 (F2), Demsculpinboyz_69 (F2), DoRead_60 (F1), DoRead_61 (F1), Donkeykong_63 (F1), DotProduct_53 (F1), DotProduct_54 (F1), Emma_61 (F1), Filuzino_58 (F1), Flathead_60 (F1), Florinda_71 (F1), Footloose_58 (singleton), Fruitloop_57 (F1), Girafales_69 (F1), Hamulus_61 (F1), Harley_61 (F1), Harley_62 (F1), IMpilo_54 (F1), JalFarm20_71 (F1), JalFarm20_72 (F1), Jant_62 (F1), Jant_63 (F1), Juice456_59 (F1), Juice456_60 (F1), Juniper1_56 (F1), Juniper1_57 (F1), Kenuha5_57 (F1), Kimberlium_60 (F1), Kimberlium_61 (F1), Kingsley_55 (F1), Kingsley_56 (F1), Krakatau_57 (F1), LunaStella_56 (F4), LunaStella_57 (F4), Medindi_56 (F1), Melissau88_58 (F1), MilanaBonita_50 (F1), Minnie_63 (F1), Moonbeam_58 (F1), Ms6_55 (F1), MulchExplorer_64 (F1), MulchExplorer_65 (F1), Ogopogo_65 (F1), Ovechkin_57 (F1), Ovechkin_58 (F1), Phalconet_58 (F1), Phanphagia_57 (F1), PhesterPhotato_60 (F1), PopTart_54 (F1), QuickMath_59 (F1), QuickMath_60 (F1), Quico_68 (F1), Renaud18_63 (F4), Renaud18_64 (F4), Royals2015_61 (F1), Royals2015_62 (F1), Sandalphon_61 (F1), Sarma624_56 (F1), Sarma624_57 (F1), SassyB_54 (F1), Seagreen_58 (F1), Seagreen_59 (F1), Shauna1_58 (F1), SilverChicken_70 (F2), Sparkdehlily_67 (F1), Squirty_62 (F3), StAnnes_58 (F1), Starcevich_57 (F1), Starcevich_58 (F1), SuperGrey_63 (F1), TChen_58 (F4), TChen_59 (F4), TDanisky_67 (F1), Tchotchke_60 (F1), ThetaBob_62 (F4), ThetaBob_63 (F4), Topiatin_65 (F1), Topiatin_66 (F1), Tweety_59 (F1), Velveteen_53 (F1), Velveteen_54 (F1), Wachhund_61 (F1), Whatsapiecost_60 (F1), XFactor_58 (F1), Yoshi_70 (F2), Yoshi_71 (F2),

Start 37:

- Found in 38 of 257 (14.8%) of genes in pham
- Manual Annotations of this start: 34 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_144 (J), Bagrid_145 (J), Beem_146 (J), Bobby_134 (J), Bombitas_132 (J), Constella_138 (J), Dallas_145 (J), DmpstrDiver_145 (J), Dove_130 (J), Duke13_140 (J), Ejimix_137 (J), EricMillard_136 (J), Halley_146 (J), Hidrated_130 (J), HokkenD_137 (J), Hughesyang_143 (J), JuicyJay_140 (J), Kalah2_135 (J), KashFlow_143 (J), Klein_142 (J), Lucky2013_136

(J), Marleymoo_127 (J), MiaZeal_143 (J), Minerva_144 (J), NihilNomen_146 (J), Odette_148 (J), Optimus_135 (J), Phoebus_144 (J), Porcelain_140 (J), Pound_136 (J), Redno2_139 (J), Schatzie_140 (J), Squiddly_84 (DN2), Thibault_127 (J), ThreeRngTarjay_139 (J), Wanda_144 (J), Yeet_138 (J), Zelink_139 (J),

Start 38:

- Found in 5 of 257 (1.9%) of genes in pham
- Manual Annotations of this start: 4 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_79 (AY), AllBusiness_48 (FF), Causa_142 (AI), CosmicBrownie_73 (AY), StAugustine_140 (AI),

Start 39:

- Found in 48 of 257 (18.7%) of genes in pham
- Manual Annotations of this start: 24 of 212
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Abidatro_30 (AS1), AdoptaAdorbs_30 (AS3), AlexMinion_33 (AS3), Amanises_34 (AS1), AmiCi24_30 (AS3), Amphitrite_31 (AS3), Andrew_32 (AS3), Atlantica_31 (AS3), Babushka_28 (AS3), Basilisk_31 (AS1), Bedetta_35 (AS2), Bibble12_33 (AS2), Brynnie_30 (AS1), Camara_31 (AS3), Chicken_28 (AS1), Colusalem_33 (AS2), DanHam62_31 (AS3), Eesa_29 (AS1), Fingolfin_31 (AS3), Glotell_32 (AS3), Gravel_33 (AS1), HamCheese_31 (AS3), Jamun_29 (AS1), Juno112_30 (AS3), KendraB23_34 (AS1), Laphuphu24k_30 (AS3), Leona_30 (AS3), Niblet_29 (AS1), Oppalora_30 (AS3), Orcanus_30 (AS1), OtsoOtso_33 (AS2), Pelletreau_33 (AS1), PhirstandPhine_35 (AS2), PhluffyCoco_31 (AS3), Pineda_34 (AS2), Polka_32 (AS2), Rattail_31 (AS3), RedFox_31 (AS3), Renna12_30 (AS3), Ruchi_30 (AS1), TaylorSipht_30 (AS1), Toad24_32 (AS1), Vulpecula_30 (AS1), Westrich_33 (AS1), Zixiang_29 (AS1),

Start 40:

- Found in 5 of 257 (1.9%) of genes in pham
- Manual Annotations of this start: 4 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GoldDust_45 (FL), Gooberta_45 (FL), Hirko_43 (FL), Vibaki_44 (FL), Vitus_45 (FL),

Start 41:

- Found in 3 of 257 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 212
- Called 66.7% of time when present
- Phage (with cluster) where this start called: RedWattleHog_91 (DX), Stormageddon_88 (DX),

Start 43:

- Found in 2 of 257 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_165 (AA), Settecandela_165 (AA),

Start 45:

- Found in 4 of 257 (1.6%) of genes in pham
- Manual Annotations of this start: 4 of 212

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatato_57 (FB), CherryTomatoes_47 (DO), Pupper_45 (DO), SCentae_45 (DO),

Start 46:

- Found in 3 of 257 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 212
- Called 66.7% of time when present
- Phage (with cluster) where this start called: CharlottesWeb_47 (DR), Mariokart_48 (DR),

Start 48:

- Found in 9 of 257 (3.5%) of genes in pham
- Manual Annotations of this start: 1 of 212
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Chickaboom_31 (AS1), WileyE_32 (AS1),

Start 50:

- Found in 49 of 257 (19.1%) of genes in pham
- Manual Annotations of this start: 1 of 212
- Called 2.0% of time when present
- Phage (with cluster) where this start called: KHumphrey_31 (AS3),

Start 51:

- Found in 28 of 257 (10.9%) of genes in pham
- No Manual Annotations of this start.
- Called 3.6% of time when present
- Phage (with cluster) where this start called: IMpilo_55 (F1),

Summary by clusters:

There are 22 clusters represented in this pham: AA, singleton, DX, DO, DB, FB, FF, DR, FL, DN2, AS3, AS2, AS1, AI, J, AY, CV, F1, F2, F3, F4, F5,

Info for manual annotations of cluster AA:

- Start number 43 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AI:

- Start number 38 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster AS1:

- Start number 39 was manually annotated 10 times for cluster AS1.
- Start number 48 was manually annotated 1 time for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 39 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 39 was manually annotated 11 times for cluster AS3.
- Start number 50 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster AY:

- Start number 38 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CV:

- Start number 32 was manually annotated 1 time for cluster CV.
- Start number 33 was manually annotated 19 times for cluster CV.

Info for manual annotations of cluster DB:

- Start number 33 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DN2:

- Start number 37 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DO:

- Start number 45 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DR:

- Start number 28 was manually annotated 1 time for cluster DR.
- Start number 29 was manually annotated 10 times for cluster DR.
- Start number 46 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster DX:

- Start number 41 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster F1:

- Start number 34 was manually annotated 82 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 34 was manually annotated 6 times for cluster F2.

Info for manual annotations of cluster F3:

- Start number 34 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 34 was manually annotated 8 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 34 was manually annotated 2 times for cluster F5.

Info for manual annotations of cluster FB:

- Start number 45 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FF:

- Start number 38 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FL:

- Start number 40 was manually annotated 4 times for cluster FL.

Info for manual annotations of cluster J:

- Start number 37 was manually annotated 33 times for cluster J.

Gene Information:

Gene: AbbyDaisy_79 Start: 44094, Stop: 44489, Start Num: 38
Candidate Starts for AbbyDaisy_79:
(Start: 38 @44094 has 4 MA's), (Start: 48 @44118 has 1 MA's), (56, 44139), (81, 44265), (111, 44463),

Gene: Abidatro_30 Start: 21728, Stop: 21387, Start Num: 39
Candidate Starts for Abidatro_30:
(Start: 39 @21728 has 24 MA's), (Start: 48 @21707 has 1 MA's), (88, 21497), (105, 21401),

Gene: AdoptaAdorbs_30 Start: 21209, Stop: 20868, Start Num: 39
Candidate Starts for AdoptaAdorbs_30:
(Start: 39 @21209 has 24 MA's), (Start: 50 @21191 has 1 MA's),

Gene: Akhila_51 Start: 36387, Stop: 36752, Start Num: 34
Candidate Starts for Akhila_51:
(Start: 34 @36387 has 100 MA's), (52, 36420), (53, 36426), (57, 36438), (64, 36480), (71, 36510), (74, 36534), (75, 36537), (90, 36636), (91, 36642), (103, 36717), (105, 36720), (106, 36723),

Gene: Alatato_57 Start: 32552, Stop: 32914, Start Num: 45
Candidate Starts for Alatato_57:
(Start: 45 @32552 has 4 MA's), (76, 32687), (81, 32708),

Gene: AlexMinion_33 Start: 21398, Stop: 21057, Start Num: 39
Candidate Starts for AlexMinion_33:
(Start: 39 @21398 has 24 MA's),

Gene: AllBusiness_48 Start: 35021, Stop: 35380, Start Num: 38
Candidate Starts for AllBusiness_48:
(26, 34973), (35, 35006), (36, 35018), (Start: 38 @35021 has 4 MA's), (52, 35054), (57, 35072), (66, 35120), (92, 35279),

Gene: Amanises_34 Start: 22613, Stop: 22260, Start Num: 39
Candidate Starts for Amanises_34:
(Start: 39 @22613 has 24 MA's), (66, 22514), (105, 22277),

Gene: AmiCi24_30 Start: 21208, Stop: 20867, Start Num: 39
Candidate Starts for AmiCi24_30:
(Start: 39 @21208 has 24 MA's), (Start: 50 @21190 has 1 MA's),

Gene: Amphitrite_31 Start: 21207, Stop: 20866, Start Num: 39
Candidate Starts for Amphitrite_31:
(Start: 39 @21207 has 24 MA's), (Start: 50 @21189 has 1 MA's),

Gene: AnClar_48 Start: 43435, Stop: 43061, Start Num: 29
Candidate Starts for AnClar_48:
(Start: 29 @43435 has 10 MA's), (54, 43375), (67, 43312), (68, 43303), (89, 43183),

Gene: Andrew_32 Start: 21174, Stop: 20812, Start Num: 39
Candidate Starts for Andrew_32:
(Start: 39 @21174 has 24 MA's), (66, 21087), (87, 20958), (96, 20892),

Gene: Archis_54 Start: 35570, Stop: 35932, Start Num: 33
Candidate Starts for Archis_54:
(12, 35426), (13, 35462), (18, 35501), (Start: 33 @35570 has 23 MA's), (69, 35699), (74, 35723),

Gene: ArcusAngelus_62 Start: 40946, Stop: 41311, Start Num: 34

Candidate Starts for ArcusAngelus_62:

(Start: 34 @40946 has 100 MA's), (52, 40979), (53, 40985), (57, 40997), (64, 41039), (71, 41069), (74, 41093), (75, 41096), (90, 41195), (91, 41201), (103, 41276),

Gene: Ardmore_52 Start: 38473, Stop: 38838, Start Num: 34

Candidate Starts for Ardmore_52:

(Start: 34 @38473 has 100 MA's), (52, 38506), (53, 38512), (57, 38524), (64, 38566), (71, 38596), (74, 38620), (75, 38623), (90, 38722), (91, 38728), (103, 38803),

Gene: Atlantica_31 Start: 21209, Stop: 20868, Start Num: 39

Candidate Starts for Atlantica_31:

(Start: 39 @21209 has 24 MA's), (Start: 50 @21191 has 1 MA's),

Gene: Aubs_60 Start: 40637, Stop: 41002, Start Num: 34

Candidate Starts for Aubs_60:

(Start: 34 @40637 has 100 MA's), (52, 40670), (53, 40676), (57, 40688), (71, 40760), (74, 40784), (75, 40787), (81, 40811), (90, 40886), (91, 40892), (103, 40967),

Gene: Axumite_48 Start: 41091, Stop: 40741, Start Num: 29

Candidate Starts for Axumite_48:

(Start: 29 @41091 has 10 MA's), (54, 41046), (57, 41037), (59, 41022), (68, 40974), (85, 40893),

Gene: BAKA_144 Start: 76097, Stop: 76450, Start Num: 37

Candidate Starts for BAKA_144:

(Start: 37 @76097 has 34 MA's), (85, 76298), (90, 76340),

Gene: Babushka_28 Start: 21123, Stop: 20782, Start Num: 39

Candidate Starts for Babushka_28:

(Start: 39 @21123 has 24 MA's), (52, 21102),

Gene: Bagrid_145 Start: 76792, Stop: 77145, Start Num: 37

Candidate Starts for Bagrid_145:

(Start: 37 @76792 has 34 MA's), (85, 76993), (90, 77035),

Gene: Barco_49 Start: 34620, Stop: 34982, Start Num: 33

Candidate Starts for Barco_49:

(12, 34476), (13, 34512), (18, 34551), (Start: 33 @34620 has 23 MA's), (69, 34749), (74, 34773),

Gene: Basilisk_31 Start: 22679, Stop: 22335, Start Num: 39

Candidate Starts for Basilisk_31:

(Start: 39 @22679 has 24 MA's), (Start: 48 @22658 has 1 MA's), (52, 22652), (57, 22634), (66, 22586),

Gene: Beakin_61 Start: 39476, Stop: 39841, Start Num: 34

Candidate Starts for Beakin_61:

(Start: 34 @39476 has 100 MA's), (52, 39509), (53, 39515), (57, 39527), (64, 39569), (71, 39599), (74, 39623), (75, 39626), (90, 39725), (91, 39731), (103, 39806),

Gene: Bedetta_35 Start: 22003, Stop: 21653, Start Num: 39

Candidate Starts for Bedetta_35:

(2, 22510), (5, 22327), (10, 22186), (19, 22093), (Start: 39 @22003 has 24 MA's), (105, 21670),

Gene: Beem_146 Start: 77695, Stop: 78048, Start Num: 37

Candidate Starts for Beem_146:

(Start: 37 @77695 has 34 MA's), (85, 77896), (90, 77938),

Gene: Begonia_49 Start: 37159, Stop: 37521, Start Num: 33

Candidate Starts for Begonia_49:

(18, 37090), (Start: 33 @37159 has 23 MA's), (62, 37258), (68, 37285), (69, 37288), (74, 37312), (108, 37507),

Gene: Bibble12_33 Start: 21861, Stop: 21511, Start Num: 39

Candidate Starts for Bibble12_33:

(5, 22185), (10, 22044), (19, 21951), (Start: 39 @21861 has 24 MA's), (105, 21528),

Gene: BigPhil_54 Start: 35652, Stop: 35999, Start Num: 34

Candidate Starts for BigPhil_54:

(25, 35625), (31, 35643), (Start: 34 @35652 has 100 MA's), (Start: 50 @35682 has 1 MA's), (54, 35691), (58, 35709), (68, 35763), (74, 35790), (85, 35847), (88, 35877), (90, 35889),

Gene: BigPhil_55 Start: 35996, Stop: 36349, Start Num: 34

Candidate Starts for BigPhil_55:

(22, 35960), (Start: 34 @35996 has 100 MA's), (49, 36026), (51, 36029), (55, 36041), (57, 36047), (68, 36110), (71, 36119), (72, 36125), (90, 36239), (93, 36260), (102, 36317), (107, 36329),

Gene: BiggityBass_47 Start: 42936, Stop: 42535, Start Num: 29

Candidate Starts for BiggityBass_47:

(Start: 29 @42936 has 10 MA's), (54, 42849), (67, 42786), (69, 42774), (90, 42651),

Gene: Bipolar_58 Start: 40097, Stop: 40462, Start Num: 34

Candidate Starts for Bipolar_58:

(Start: 34 @40097 has 100 MA's), (52, 40130), (54, 40139), (57, 40148), (64, 40190), (71, 40220), (74, 40244), (75, 40247), (90, 40346), (91, 40352), (103, 40427),

Gene: BlingBling_48 Start: 35583, Stop: 35945, Start Num: 33

Candidate Starts for BlingBling_48:

(12, 35439), (13, 35475), (18, 35514), (Start: 33 @35583 has 23 MA's), (69, 35712), (74, 35736),

Gene: Bobby_134 Start: 77532, Stop: 77885, Start Num: 37

Candidate Starts for Bobby_134:

(Start: 37 @77532 has 34 MA's), (85, 77733), (90, 77775),

Gene: Bobi_65 Start: 41950, Stop: 42315, Start Num: 34

Candidate Starts for Bobi_65:

(Start: 34 @41950 has 100 MA's), (52, 41983), (53, 41989), (57, 42001), (64, 42043), (71, 42073), (74, 42097), (75, 42100), (90, 42199), (91, 42205), (103, 42280),

Gene: Bombitas_132 Start: 75106, Stop: 75459, Start Num: 37

Candidate Starts for Bombitas_132:

(Start: 37 @75106 has 34 MA's), (85, 75307), (90, 75349),

Gene: Brookers_55 Start: 38603, Stop: 38950, Start Num: 34

Candidate Starts for Brookers_55:

(25, 38576), (31, 38594), (Start: 34 @38603 has 100 MA's), (Start: 50 @38633 has 1 MA's), (54, 38642), (58, 38660), (68, 38714), (74, 38741), (85, 38798), (88, 38828), (90, 38840),

Gene: Brookers_56 Start: 38947, Stop: 39300, Start Num: 34

Candidate Starts for Brookers_56:

(22, 38911), (Start: 34 @38947 has 100 MA's), (49, 38977), (51, 38980), (55, 38992), (57, 38998), (68, 39061), (71, 39070), (72, 39076), (90, 39190), (93, 39211), (102, 39268), (107, 39280),

Gene: Brynnie_30 Start: 22557, Stop: 22213, Start Num: 39

Candidate Starts for Brynnie_30:

(Start: 39 @22557 has 24 MA's), (Start: 48 @22536 has 1 MA's), (81, 22389), (105, 22230),

Gene: Bubbles123_56 Start: 40256, Stop: 40621, Start Num: 34

Candidate Starts for Bubbles123_56:

(Start: 34 @40256 has 100 MA's), (52, 40289), (54, 40298), (57, 40307), (68, 40370), (74, 40403), (75, 40406), (78, 40418), (81, 40430), (90, 40505), (91, 40511), (103, 40586),

Gene: Camara_31 Start: 21210, Stop: 20869, Start Num: 39

Candidate Starts for Camara_31:

(Start: 39 @21210 has 24 MA's), (Start: 50 @21192 has 1 MA's),

Gene: CaptainKirk2_51 Start: 34868, Stop: 35230, Start Num: 33

Candidate Starts for CaptainKirk2_51:

(12, 34724), (13, 34760), (18, 34799), (Start: 33 @34868 has 23 MA's), (69, 34997), (74, 35021),

Gene: Causa_142 Start: 83302, Stop: 82940, Start Num: 38

Candidate Starts for Causa_142:

(35, 83317), (Start: 38 @83302 has 4 MA's), (42, 83293), (47, 83278), (61, 83221), (63, 83212),

Gene: Cerasum_55 Start: 36014, Stop: 36367, Start Num: 34

Candidate Starts for Cerasum_55:

(22, 35978), (Start: 34 @36014 has 100 MA's), (49, 36044), (51, 36047), (55, 36059), (57, 36065), (68, 36128), (71, 36137), (72, 36143), (90, 36257), (93, 36278), (102, 36335), (107, 36347),

Gene: Cerasum_54 Start: 35670, Stop: 36017, Start Num: 34

Candidate Starts for Cerasum_54:

(25, 35643), (31, 35661), (Start: 34 @35670 has 100 MA's), (Start: 50 @35700 has 1 MA's), (54, 35709), (58, 35727), (68, 35781), (74, 35808), (85, 35865), (88, 35895), (90, 35907),

Gene: CharlottesWeb_47 Start: 40439, Stop: 40119, Start Num: 46

Candidate Starts for CharlottesWeb_47:

(Start: 29 @40457 has 10 MA's), (Start: 46 @40439 has 1 MA's), (68, 40352), (91, 40223),

Gene: Che8_64 Start: 42503, Stop: 42856, Start Num: 34

Candidate Starts for Che8_64:

(22, 42467), (Start: 34 @42503 has 100 MA's), (49, 42533), (51, 42536), (55, 42548), (57, 42554), (68, 42617), (71, 42626), (72, 42632), (90, 42746), (93, 42767), (102, 42824), (107, 42836),

Gene: Che8_63 Start: 42159, Stop: 42506, Start Num: 34

Candidate Starts for Che8_63:

(25, 42132), (31, 42150), (Start: 34 @42159 has 100 MA's), (Start: 50 @42189 has 1 MA's), (54, 42198), (58, 42216), (68, 42270), (74, 42297), (85, 42354), (88, 42384), (90, 42396),

Gene: Che9d_67 Start: 39585, Stop: 39938, Start Num: 34

Candidate Starts for Che9d_67:

(22, 39549), (Start: 34 @39585 has 100 MA's), (49, 39615), (51, 39618), (55, 39630), (57, 39636), (68, 39699), (71, 39708), (72, 39714), (90, 39828), (93, 39849), (102, 39906), (107, 39918),

Gene: Che9d_66 Start: 39241, Stop: 39588, Start Num: 34

Candidate Starts for Che9d_66:

(25, 39214), (31, 39232), (Start: 34 @39241 has 100 MA's), (Start: 50 @39271 has 1 MA's), (54, 39280), (58, 39298), (68, 39352), (74, 39379), (85, 39436), (88, 39466), (90, 39478),

Gene: Cheesepuff_65 Start: 41627, Stop: 41980, Start Num: 34

Candidate Starts for Cheesepuff_65:

(22, 41591), (Start: 34 @41627 has 100 MA's), (49, 41657), (51, 41660), (55, 41672), (57, 41678), (68, 41741), (71, 41750), (72, 41756), (90, 41870), (93, 41891), (102, 41948), (107, 41960),

Gene: Cheesepuff_64 Start: 41283, Stop: 41630, Start Num: 34

Candidate Starts for Cheesepuff_64:

(25, 41256), (31, 41274), (Start: 34 @41283 has 100 MA's), (Start: 50 @41313 has 1 MA's), (54, 41322), (58, 41340), (68, 41394), (74, 41421), (85, 41478), (88, 41508), (90, 41520),

Gene: CherryTomatoes_47 Start: 15930, Stop: 16262, Start Num: 45

Candidate Starts for CherryTomatoes_47:

(7, 15675), (Start: 33 @15903 has 23 MA's), (Start: 45 @15930 has 4 MA's), (59, 15984), (60, 15993), (68, 16032), (85, 16116), (93, 16179), (97, 16206),

Gene: Chevrolet_65 Start: 40947, Stop: 41312, Start Num: 34

Candidate Starts for Chevrolet_65:

(Start: 34 @40947 has 100 MA's), (52, 40980), (53, 40986), (57, 40998), (64, 41040), (71, 41070), (74, 41094), (75, 41097), (90, 41196), (91, 41202), (103, 41277),

Gene: Chickaboom_31 Start: 21673, Stop: 21350, Start Num: 48

Candidate Starts for Chickaboom_31:

(Start: 39 @21694 has 24 MA's), (Start: 48 @21673 has 1 MA's), (66, 21601), (93, 21430), (105, 21367),

Gene: Chicken_28 Start: 22015, Stop: 21665, Start Num: 39

Candidate Starts for Chicken_28:

(Start: 39 @22015 has 24 MA's), (66, 21916), (93, 21742), (103, 21682),

Gene: Coco12_58 Start: 40071, Stop: 40424, Start Num: 34

Candidate Starts for Coco12_58:

(22, 40035), (Start: 34 @40071 has 100 MA's), (49, 40101), (51, 40104), (55, 40116), (57, 40122), (68, 40185), (71, 40194), (72, 40200), (90, 40314), (93, 40335), (102, 40392), (107, 40404),

Gene: Coco12_57 Start: 39727, Stop: 40074, Start Num: 34

Candidate Starts for Coco12_57:

(25, 39700), (31, 39718), (Start: 34 @39727 has 100 MA's), (Start: 50 @39757 has 1 MA's), (54, 39766), (58, 39784), (68, 39838), (74, 39865), (85, 39922), (88, 39952), (90, 39964),

Gene: Colusalem_33 Start: 21842, Stop: 21492, Start Num: 39

Candidate Starts for Colusalem_33:

(5, 22166), (10, 22025), (19, 21932), (Start: 39 @21842 has 24 MA's), (105, 21509),

Gene: Constella_138 Start: 76348, Stop: 76701, Start Num: 37

Candidate Starts for Constella_138:

(Start: 37 @76348 has 34 MA's), (85, 76549), (90, 76591),

Gene: Cornie_53 Start: 37745, Stop: 38092, Start Num: 34

Candidate Starts for Cornie_53:

(25, 37718), (31, 37736), (Start: 34 @37745 has 100 MA's), (Start: 50 @37775 has 1 MA's), (54, 37784), (58, 37802), (68, 37856), (74, 37883), (85, 37940), (88, 37970), (90, 37982),

Gene: Cornie_54 Start: 38089, Stop: 38442, Start Num: 34

Candidate Starts for Cornie_54:

(22, 38053), (Start: 34 @38089 has 100 MA's), (49, 38119), (51, 38122), (55, 38134), (57, 38140), (68, 38203), (71, 38212), (72, 38218), (90, 38332), (93, 38353), (102, 38410), (107, 38422),

Gene: CosmicBrownie_73 Start: 41072, Stop: 41473, Start Num: 38

Candidate Starts for CosmicBrownie_73:

(8, 40865), (Start: 38 @41072 has 4 MA's), (57, 41117), (85, 41273), (93, 41336),

Gene: DLane_55 Start: 38997, Stop: 39362, Start Num: 34

Candidate Starts for DLane_55:

(Start: 34 @38997 has 100 MA's), (52, 39030), (53, 39036), (57, 39048), (64, 39090), (71, 39120), (74, 39144), (75, 39147), (90, 39246), (91, 39252), (103, 39327),

Gene: Dallas_145 Start: 77162, Stop: 77515, Start Num: 37

Candidate Starts for Dallas_145:

(Start: 37 @77162 has 34 MA's), (85, 77363), (90, 77405),

Gene: DanHam62_31 Start: 21209, Stop: 20868, Start Num: 39

Candidate Starts for DanHam62_31:

(Start: 39 @21209 has 24 MA's), (Start: 50 @21191 has 1 MA's),

Gene: Delian_54 Start: 34866, Stop: 35228, Start Num: 33

Candidate Starts for Delian_54:

(12, 34722), (13, 34758), (18, 34797), (Start: 33 @34866 has 23 MA's), (69, 34995), (74, 35019),

Gene: Demsculpinboyz_69 Start: 39586, Stop: 39939, Start Num: 34

Candidate Starts for Demsculpinboyz_69:

(22, 39550), (Start: 34 @39586 has 100 MA's), (49, 39616), (51, 39619), (55, 39631), (57, 39637), (68, 39700), (71, 39709), (72, 39715), (90, 39829), (93, 39850), (107, 39919),

Gene: Demsculpinboyz_68 Start: 39242, Stop: 39589, Start Num: 34

Candidate Starts for Demsculpinboyz_68:

(25, 39215), (31, 39233), (Start: 34 @39242 has 100 MA's), (Start: 50 @39272 has 1 MA's), (54, 39281), (58, 39299), (68, 39353), (74, 39380), (85, 39437), (88, 39467), (90, 39479),

Gene: DirtyBoi_56 Start: 37313, Stop: 37675, Start Num: 33

Candidate Starts for DirtyBoi_56:

(Start: 33 @37313 has 23 MA's), (68, 37436),

Gene: Dmitri_53 Start: 39335, Stop: 39700, Start Num: 33

Candidate Starts for Dmitri_53:

(Start: 33 @39335 has 23 MA's), (68, 39461),

Gene: DmpstrDiver_145 Start: 77081, Stop: 77434, Start Num: 37

Candidate Starts for DmpstrDiver_145:

(Start: 37 @77081 has 34 MA's), (85, 77282), (90, 77324),

Gene: DoRead_60 Start: 38654, Stop: 39001, Start Num: 34

Candidate Starts for DoRead_60:

(25, 38627), (31, 38645), (Start: 34 @38654 has 100 MA's), (Start: 50 @38684 has 1 MA's), (54, 38693), (58, 38711), (68, 38765), (74, 38792), (85, 38849), (88, 38879), (90, 38891),

Gene: DoRead_61 Start: 38998, Stop: 39351, Start Num: 34

Candidate Starts for DoRead_61:

(22, 38962), (Start: 34 @38998 has 100 MA's), (49, 39028), (51, 39031), (55, 39043), (57, 39049), (68, 39112), (71, 39121), (72, 39127), (90, 39241), (93, 39262), (102, 39319), (107, 39331),

Gene: Donkeykong_63 Start: 42892, Stop: 43257, Start Num: 34

Candidate Starts for Donkeykong_63:

(Start: 34 @42892 has 100 MA's), (52, 42925), (54, 42934), (57, 42943), (74, 43039), (75, 43042), (81, 43066), (90, 43141), (91, 43147), (103, 43222),

Gene: DotProduct_53 Start: 38248, Stop: 38595, Start Num: 34

Candidate Starts for DotProduct_53:

(25, 38221), (31, 38239), (Start: 34 @38248 has 100 MA's), (42, 38260), (44, 38263), (Start: 50 @38278 has 1 MA's), (54, 38287), (58, 38305), (68, 38359), (74, 38386), (85, 38443), (88, 38473), (90, 38485), (109, 38587),

Gene: DotProduct_54 Start: 38592, Stop: 38945, Start Num: 34

Candidate Starts for DotProduct_54:

(22, 38556), (Start: 34 @38592 has 100 MA's), (49, 38622), (51, 38625), (55, 38637), (57, 38643), (68, 38706), (71, 38715), (72, 38721), (90, 38835), (93, 38856), (102, 38913), (107, 38925),

Gene: Dove_130 Start: 72680, Stop: 73033, Start Num: 37

Candidate Starts for Dove_130:

(Start: 37 @72680 has 34 MA's), (85, 72881), (90, 72923),

Gene: Duke13_140 Start: 74382, Stop: 74735, Start Num: 37

Candidate Starts for Duke13_140:

(Start: 37 @74382 has 34 MA's), (85, 74583), (90, 74625),

Gene: Eesa_29 Start: 22456, Stop: 22103, Start Num: 39

Candidate Starts for Eesa_29:

(Start: 39 @22456 has 24 MA's), (66, 22357), (105, 22120),

Gene: Ejimix_137 Start: 77230, Stop: 77583, Start Num: 37

Candidate Starts for Ejimix_137:

(Start: 37 @77230 has 34 MA's), (85, 77431), (90, 77473),

Gene: Emma_61 Start: 40009, Stop: 40374, Start Num: 34

Candidate Starts for Emma_61:

(Start: 34 @40009 has 100 MA's), (52, 40042), (57, 40060), (64, 40102), (71, 40132), (74, 40156), (75, 40159), (90, 40258), (91, 40264), (103, 40339), (105, 40342), (106, 40345),

Gene: EricMillard_136 Start: 75734, Stop: 76087, Start Num: 37

Candidate Starts for EricMillard_136:

(Start: 37 @75734 has 34 MA's), (85, 75935), (90, 75977),

Gene: Evaa_48 Start: 41735, Stop: 41361, Start Num: 29

Candidate Starts for Evaa_48:

(6, 41960), (27, 41741), (Start: 29 @41735 has 10 MA's), (54, 41675), (62, 41630), (67, 41612), (68, 41603),

Gene: Fenry_49 Start: 36364, Stop: 36726, Start Num: 33

Candidate Starts for Fenry_49:

(1, 35836), (4, 36049), (9, 36202), (12, 36220), (13, 36256), (18, 36295), (Start: 33 @36364 has 23 MA's), (69, 36493), (74, 36517), (108, 36712),

Gene: Filuzino_58 Start: 39299, Stop: 39664, Start Num: 34

Candidate Starts for Filuzino_58:

(Start: 34 @39299 has 100 MA's), (52, 39332), (53, 39338), (57, 39350), (64, 39392), (71, 39422), (74, 39446), (75, 39449), (90, 39548), (91, 39554), (103, 39629), (105, 39632),

Gene: Fingolfin_31 Start: 21210, Stop: 20869, Start Num: 39

Candidate Starts for Fingolfin_31:

(Start: 39 @21210 has 24 MA's), (Start: 50 @21192 has 1 MA's),

Gene: Flathead_60 Start: 40766, Stop: 41131, Start Num: 34

Candidate Starts for Flathead_60:

(Start: 34 @40766 has 100 MA's), (52, 40799), (53, 40805), (57, 40817), (64, 40859), (71, 40889), (74, 40913), (75, 40916), (90, 41015), (91, 41021), (103, 41096), (105, 41099), (106, 41102),

Gene: Florinda_71 Start: 42396, Stop: 42761, Start Num: 34

Candidate Starts for Florinda_71:

(Start: 34 @42396 has 100 MA's), (52, 42429), (54, 42438), (57, 42447), (64, 42489), (71, 42519), (74, 42543), (75, 42546), (90, 42645), (91, 42651), (103, 42726),

Gene: Footloose_58 Start: 33452, Stop: 33814, Start Num: 34

Candidate Starts for Footloose_58:

(20, 33380), (21, 33398), (23, 33416), (Start: 34 @33452 has 100 MA's), (Start: 41 @33464 has 2 MA's), (59, 33524), (65, 33557), (68, 33572), (74, 33599), (80, 33623), (85, 33659),

Gene: Fresco_48 Start: 41091, Stop: 40741, Start Num: 29

Candidate Starts for Fresco_48:

(Start: 29 @41091 has 10 MA's), (54, 41046), (57, 41037), (59, 41022), (68, 40974), (85, 40893),

Gene: Fruitloop_57 Start: 40613, Stop: 40978, Start Num: 34

Candidate Starts for Fruitloop_57:

(Start: 34 @40613 has 100 MA's), (52, 40646), (54, 40655), (57, 40664), (64, 40706), (71, 40736), (74, 40760), (75, 40763), (90, 40862), (91, 40868), (103, 40943),

Gene: Girafales_69 Start: 42187, Stop: 42552, Start Num: 34

Candidate Starts for Girafales_69:

(Start: 34 @42187 has 100 MA's), (52, 42220), (54, 42229), (57, 42238), (64, 42280), (71, 42310), (74, 42334), (75, 42337), (90, 42436), (91, 42442), (103, 42517),

Gene: Glotell_32 Start: 21366, Stop: 21025, Start Num: 39

Candidate Starts for Glotell_32:

(Start: 39 @21366 has 24 MA's), (Start: 50 @21348 has 1 MA's),

Gene: GoldDust_45 Start: 35305, Stop: 35673, Start Num: 40

Candidate Starts for GoldDust_45:

(Start: 40 @35305 has 4 MA's), (81, 35458), (85, 35491), (86, 35506),

Gene: Gooberta_45 Start: 35304, Stop: 35672, Start Num: 40

Candidate Starts for Gooberta_45:

(Start: 40 @35304 has 4 MA's), (81, 35457), (85, 35490), (86, 35505),

Gene: Gravel_33 Start: 22425, Stop: 22072, Start Num: 39

Candidate Starts for Gravel_33:

(Start: 39 @22425 has 24 MA's), (66, 22326), (105, 22089),

Gene: Guacamole_48 Start: 35005, Stop: 35367, Start Num: 33

Candidate Starts for Guacamole_48:

(12, 34861), (13, 34897), (18, 34936), (Start: 33 @35005 has 23 MA's), (62, 35104), (68, 35131), (69, 35134), (74, 35158), (108, 35353),

Gene: Halley_146 Start: 77546, Stop: 77899, Start Num: 37

Candidate Starts for Halley_146:

(Start: 37 @77546 has 34 MA's), (85, 77747), (90, 77789),

Gene: HamCheese_31 Start: 21194, Stop: 20853, Start Num: 39

Candidate Starts for HamCheese_31:

(Start: 39 @21194 has 24 MA's), (Start: 50 @21176 has 1 MA's),

Gene: Hamulus_61 Start: 40756, Stop: 41121, Start Num: 34

Candidate Starts for Hamulus_61:

(Start: 34 @40756 has 100 MA's), (52, 40789), (53, 40795), (57, 40807), (64, 40849), (71, 40879), (74, 40903), (75, 40906), (90, 41005), (91, 41011), (103, 41086), (105, 41089), (106, 41092),

Gene: Harley_62 Start: 40658, Stop: 41011, Start Num: 34

Candidate Starts for Harley_62:

(22, 40622), (Start: 34 @40658 has 100 MA's), (49, 40688), (51, 40691), (55, 40703), (57, 40709), (68, 40772), (71, 40781), (90, 40901), (93, 40922), (102, 40979), (107, 40991),

Gene: Harley_61 Start: 40314, Stop: 40661, Start Num: 34

Candidate Starts for Harley_61:

(25, 40287), (31, 40305), (Start: 34 @40314 has 100 MA's), (Start: 50 @40344 has 1 MA's), (54, 40353), (58, 40371), (68, 40425), (74, 40452), (85, 40509), (88, 40539), (90, 40551),

Gene: Hedwig_57 Start: 38509, Stop: 38871, Start Num: 33

Candidate Starts for Hedwig_57:

(3, 38158), (Start: 33 @38509 has 23 MA's), (68, 38632),

Gene: Hidrated_130 Start: 75865, Stop: 76218, Start Num: 37

Candidate Starts for Hidrated_130:

(Start: 37 @75865 has 34 MA's), (85, 76066), (90, 76108),

Gene: Hirko_43 Start: 34532, Stop: 34897, Start Num: 40

Candidate Starts for Hirko_43:

(Start: 40 @34532 has 4 MA's), (81, 34685), (85, 34718), (86, 34733), (98, 34814),

Gene: Hitter_51 Start: 34662, Stop: 35024, Start Num: 33

Candidate Starts for Hitter_51:

(12, 34518), (13, 34554), (18, 34593), (Start: 33 @34662 has 23 MA's), (69, 34791), (74, 34815), (108, 35010),

Gene: HokkenD_137 Start: 76705, Stop: 77058, Start Num: 37

Candidate Starts for HokkenD_137:

(17, 76603), (Start: 37 @76705 has 34 MA's), (85, 76906), (90, 76948),

Gene: Hughesyang_143 Start: 77316, Stop: 77669, Start Num: 37

Candidate Starts for Hughesyang_143:

(Start: 37 @77316 has 34 MA's), (85, 77517), (90, 77559),

Gene: IMpilo_54 Start: 37409, Stop: 37756, Start Num: 34

Candidate Starts for IMpilo_54:

(25, 37382), (31, 37400), (Start: 34 @37409 has 100 MA's), (42, 37421), (44, 37424), (Start: 50 @37439 has 1 MA's), (54, 37448), (58, 37466), (68, 37520), (74, 37547), (85, 37604), (88, 37634), (90, 37646),

Gene: IMpilo_55 Start: 37786, Stop: 38106, Start Num: 51

Candidate Starts for IMpilo_55:

(22, 37717), (Start: 34 @37753 has 100 MA's), (49, 37783), (51, 37786), (55, 37798), (57, 37804), (68, 37867), (71, 37876), (72, 37882), (90, 37996), (93, 38017), (102, 38074), (107, 38086),

Gene: JalFarm20_71 Start: 43462, Stop: 43809, Start Num: 34

Candidate Starts for JalFarm20_71:

(25, 43435), (31, 43453), (Start: 34 @43462 has 100 MA's), (Start: 50 @43492 has 1 MA's), (54, 43501), (58, 43519), (68, 43573), (74, 43600), (85, 43657), (88, 43687), (90, 43699),

Gene: JalFarm20_72 Start: 43806, Stop: 44159, Start Num: 34

Candidate Starts for JalFarm20_72:

(22, 43770), (Start: 34 @43806 has 100 MA's), (49, 43836), (51, 43839), (55, 43851), (57, 43857), (68, 43920), (71, 43929), (72, 43935), (90, 44049), (93, 44070), (102, 44127), (107, 44139),

Gene: Jalammah_54 Start: 37665, Stop: 38027, Start Num: 33

Candidate Starts for Jalammah_54:

(12, 37521), (13, 37557), (18, 37596), (Start: 33 @37665 has 23 MA's), (69, 37794), (74, 37818), (108, 38013),

Gene: Jamun_29 Start: 21575, Stop: 21234, Start Num: 39

Candidate Starts for Jamun_29:

(Start: 39 @21575 has 24 MA's), (66, 21482), (93, 21311), (103, 21251), (105, 21248),

Gene: Jant_63 Start: 41384, Stop: 41737, Start Num: 34

Candidate Starts for Jant_63:

(22, 41348), (Start: 34 @41384 has 100 MA's), (49, 41414), (51, 41417), (55, 41429), (57, 41435), (68, 41498), (71, 41507), (72, 41513), (90, 41627), (93, 41648), (102, 41705), (107, 41717),

Gene: Jant_62 Start: 41040, Stop: 41387, Start Num: 34

Candidate Starts for Jant_62:

(25, 41013), (31, 41031), (Start: 34 @41040 has 100 MA's), (Start: 50 @41070 has 1 MA's), (54, 41079), (58, 41097), (68, 41151), (74, 41178), (85, 41235), (88, 41265), (90, 41277),

Gene: JasperJr_48 Start: 35005, Stop: 35367, Start Num: 33

Candidate Starts for JasperJr_48:

(12, 34861), (13, 34897), (18, 34936), (Start: 33 @35005 has 23 MA's), (62, 35104), (68, 35131), (69, 35134), (74, 35158), (108, 35353),

Gene: Juice456_60 Start: 41762, Stop: 42115, Start Num: 34

Candidate Starts for Juice456_60:

(22, 41726), (Start: 34 @41762 has 100 MA's), (49, 41792), (51, 41795), (55, 41807), (57, 41813), (68, 41876), (71, 41885), (72, 41891), (90, 42005), (93, 42026), (102, 42083), (107, 42095),

Gene: Juice456_59 Start: 41418, Stop: 41765, Start Num: 34

Candidate Starts for Juice456_59:

(25, 41391), (31, 41409), (Start: 34 @41418 has 100 MA's), (Start: 50 @41448 has 1 MA's), (54, 41457), (58, 41475), (68, 41529), (74, 41556), (85, 41613), (88, 41643), (90, 41655),

Gene: JuicyJay_140 Start: 78831, Stop: 79184, Start Num: 37

Candidate Starts for JuicyJay_140:

(Start: 37 @78831 has 34 MA's), (85, 79032), (90, 79074),

Gene: Juniper1_56 Start: 39354, Stop: 39701, Start Num: 34

Candidate Starts for Juniper1_56:

(25, 39327), (31, 39345), (Start: 34 @39354 has 100 MA's), (42, 39366), (44, 39369), (Start: 50 @39384 has 1 MA's), (54, 39393), (58, 39411), (68, 39465), (74, 39492), (85, 39549), (88, 39579), (90, 39591),

Gene: Juniper1_57 Start: 39698, Stop: 40051, Start Num: 34

Candidate Starts for Juniper1_57:

(22, 39662), (Start: 34 @39698 has 100 MA's), (49, 39728), (51, 39731), (55, 39743), (57, 39749), (68, 39812), (71, 39821), (72, 39827), (90, 39941), (93, 39962), (102, 40019), (107, 40031),

Gene: Juno112_30 Start: 21210, Stop: 20869, Start Num: 39

Candidate Starts for Juno112_30:

(Start: 39 @21210 has 24 MA's), (Start: 50 @21192 has 1 MA's),

Gene: KHumphrey_31 Start: 21190, Stop: 20867, Start Num: 50

Candidate Starts for KHumphrey_31:

(Start: 39 @21208 has 24 MA's), (Start: 50 @21190 has 1 MA's),

Gene: Kalah2_135 Start: 76437, Stop: 76790, Start Num: 37

Candidate Starts for Kalah2_135:

(Start: 37 @76437 has 34 MA's), (85, 76638), (90, 76680),

Gene: KashFlow_143 Start: 75737, Stop: 76090, Start Num: 37

Candidate Starts for KashFlow_143:

(17, 75635), (Start: 37 @75737 has 34 MA's), (85, 75938), (90, 75980),

Gene: KendraB23_34 Start: 22613, Stop: 22260, Start Num: 39

Candidate Starts for KendraB23_34:

(Start: 39 @22613 has 24 MA's), (66, 22514), (105, 22277),

Gene: Kenuha5_57 Start: 38874, Stop: 39239, Start Num: 34

Candidate Starts for Kenuha5_57:

(Start: 34 @38874 has 100 MA's), (52, 38907), (53, 38913), (57, 38925), (64, 38967), (71, 38997), (74, 39021), (75, 39024), (90, 39123), (91, 39129), (103, 39204),

Gene: Kimberlium_60 Start: 41117, Stop: 41464, Start Num: 34

Candidate Starts for Kimberlium_60:

(25, 41090), (31, 41108), (Start: 34 @41117 has 100 MA's), (Start: 50 @41147 has 1 MA's), (54, 41156), (58, 41174), (68, 41228), (74, 41255), (85, 41312), (88, 41342), (90, 41354),

Gene: Kimberlium_61 Start: 41461, Stop: 41814, Start Num: 34

Candidate Starts for Kimberlium_61:

(22, 41425), (Start: 34 @41461 has 100 MA's), (49, 41491), (51, 41494), (55, 41506), (57, 41512), (68, 41575), (71, 41584), (72, 41590), (90, 41704), (93, 41725), (102, 41782), (107, 41794),

Gene: Kingsley_56 Start: 38804, Stop: 39157, Start Num: 34

Candidate Starts for Kingsley_56:

(22, 38768), (Start: 34 @38804 has 100 MA's), (49, 38834), (51, 38837), (55, 38849), (57, 38855), (68, 38918), (71, 38927), (72, 38933), (90, 39047), (93, 39068), (102, 39125), (107, 39137),

Gene: Kingsley_55 Start: 38460, Stop: 38807, Start Num: 34

Candidate Starts for Kingsley_55:

(25, 38433), (31, 38451), (Start: 34 @38460 has 100 MA's), (Start: 50 @38490 has 1 MA's), (54, 38499), (58, 38517), (68, 38571), (74, 38598), (85, 38655), (88, 38685), (90, 38697),

Gene: Klein_142 Start: 75039, Stop: 75392, Start Num: 37

Candidate Starts for Klein_142:

(Start: 37 @75039 has 34 MA's), (85, 75240), (90, 75282),

Gene: Krakatau_57 Start: 39569, Stop: 39934, Start Num: 34

Candidate Starts for Krakatau_57:

(Start: 34 @39569 has 100 MA's), (52, 39602), (57, 39620), (71, 39692), (74, 39716), (75, 39719), (90, 39818), (91, 39824), (103, 39899),

Gene: Laphuphu24k_30 Start: 21194, Stop: 20853, Start Num: 39

Candidate Starts for Laphuphu24k_30:

(Start: 39 @21194 has 24 MA's), (Start: 50 @21176 has 1 MA's),

Gene: Leona_30 Start: 21281, Stop: 20940, Start Num: 39

Candidate Starts for Leona_30:

(Start: 39 @21281 has 24 MA's), (70, 21173), (73, 21152),

Gene: Ligma_48 Start: 41091, Stop: 40741, Start Num: 29

Candidate Starts for Ligma_48:

(Start: 29 @41091 has 10 MA's), (54, 41046), (57, 41037), (59, 41022), (68, 40974), (85, 40893),

Gene: LittleMunchkin_50 Start: 44298, Stop: 43924, Start Num: 29

Candidate Starts for LittleMunchkin_50:

(6, 44523), (Start: 29 @44298 has 10 MA's), (57, 44229), (67, 44175), (72, 44151), (101, 43965),

Gene: Lucky2013_136 Start: 72791, Stop: 73144, Start Num: 37

Candidate Starts for Lucky2013_136:

(17, 72689), (Start: 37 @72791 has 34 MA's), (85, 72992), (90, 73034),

Gene: LunaStella_56 Start: 38713, Stop: 39060, Start Num: 34

Candidate Starts for LunaStella_56:

(25, 38686), (31, 38704), (Start: 34 @38713 has 100 MA's), (42, 38725), (Start: 50 @38743 has 1 MA's), (54, 38752), (64, 38803), (68, 38824), (82, 38887), (85, 38908), (88, 38938),

Gene: LunaStella_57 Start: 39057, Stop: 39410, Start Num: 34

Candidate Starts for LunaStella_57:

(22, 39021), (Start: 34 @39057 has 100 MA's), (55, 39102), (57, 39108), (68, 39171), (71, 39180), (79, 39216), (83, 39240), (107, 39390),

Gene: Lysidious_52 Start: 36936, Stop: 37298, Start Num: 33

Candidate Starts for Lysidious_52:

(11, 36786), (12, 36792), (13, 36828), (18, 36867), (Start: 33 @36936 has 23 MA's), (69, 37065), (74, 37089),

Gene: Malachai_49 Start: 37159, Stop: 37521, Start Num: 33

Candidate Starts for Malachai_49:

(18, 37090), (Start: 33 @37159 has 23 MA's), (62, 37258), (68, 37285), (69, 37288), (74, 37312), (108, 37507),

Gene: Mariokart_48 Start: 41216, Stop: 40896, Start Num: 46

Candidate Starts for Mariokart_48:

(Start: 29 @41234 has 10 MA's), (Start: 46 @41216 has 1 MA's), (67, 41138), (68, 41129), (89, 41012), (91, 41000),

Gene: Marleymoo_127 Start: 73278, Stop: 73631, Start Num: 37

Candidate Starts for Marleymoo_127:

(Start: 37 @73278 has 34 MA's), (85, 73479), (90, 73521),

Gene: Medindi_56 Start: 37651, Stop: 38016, Start Num: 34

Candidate Starts for Medindi_56:

(Start: 34 @37651 has 100 MA's), (52, 37684), (53, 37690), (57, 37702), (64, 37744), (71, 37774), (74, 37798), (75, 37801), (90, 37900), (91, 37906), (103, 37981), (105, 37984),

Gene: Melba_50 Start: 35408, Stop: 35770, Start Num: 33

Candidate Starts for Melba_50:

(12, 35264), (13, 35300), (18, 35339), (Start: 33 @35408 has 23 MA's), (69, 35537), (74, 35561),

Gene: Melissauren88_58 Start: 39794, Stop: 40159, Start Num: 34

Candidate Starts for Melissauren88_58:

(Start: 34 @39794 has 100 MA's), (52, 39827), (53, 39833), (57, 39845), (64, 39887), (71, 39917), (74, 39941), (75, 39944), (90, 40043), (91, 40049), (103, 40124),

Gene: Mellie_49 Start: 35048, Stop: 35410, Start Num: 32

Candidate Starts for Mellie_49:

(13, 34943), (Start: 32 @35048 has 1 MA's), (62, 35147), (68, 35174), (69, 35177), (74, 35201),

Gene: MiaZeal_143 Start: 73930, Stop: 74283, Start Num: 37

Candidate Starts for MiaZeal_143:

(17, 73828), (Start: 37 @73930 has 34 MA's), (85, 74131), (90, 74173),

Gene: MilanaBonita_50 Start: 36387, Stop: 36752, Start Num: 34

Candidate Starts for MilanaBonita_50:

(Start: 34 @36387 has 100 MA's), (52, 36420), (53, 36426), (57, 36438), (64, 36480), (71, 36510), (74, 36534), (75, 36537), (90, 36636), (91, 36642), (103, 36717), (105, 36720), (106, 36723),

Gene: Minerva_144 Start: 76488, Stop: 76841, Start Num: 37

Candidate Starts for Minerva_144:

(Start: 37 @76488 has 34 MA's), (85, 76689), (90, 76731),

Gene: Minnie_63 Start: 41784, Stop: 42149, Start Num: 34

Candidate Starts for Minnie_63:

(Start: 34 @41784 has 100 MA's), (52, 41817), (54, 41826), (57, 41835), (64, 41877), (71, 41907), (74, 41931), (75, 41934), (90, 42033), (91, 42039), (103, 42114),

Gene: MintFen_51 Start: 35482, Stop: 35844, Start Num: 33

Candidate Starts for MintFen_51:

(12, 35338), (13, 35374), (18, 35413), (Start: 33 @35482 has 23 MA's), (69, 35611), (74, 35635),

Gene: Moonbeam_58 Start: 39938, Stop: 40303, Start Num: 34

Candidate Starts for Moonbeam_58:

(Start: 34 @39938 has 100 MA's), (52, 39971), (57, 39989), (64, 40031), (71, 40061), (74, 40085), (75, 40088), (90, 40187), (103, 40268), (105, 40271), (106, 40274),

Gene: Moonflower_54 Start: 39482, Stop: 39844, Start Num: 33

Candidate Starts for Moonflower_54:

(Start: 33 @39482 has 23 MA's), (68, 39605),

Gene: Ms6_55 Start: 35525, Stop: 35890, Start Num: 34

Candidate Starts for Ms6_55:

(Start: 34 @35525 has 100 MA's), (52, 35558), (53, 35564), (57, 35576), (64, 35618), (71, 35648), (74, 35672), (75, 35675), (90, 35774), (91, 35780), (103, 35855),

Gene: MulchExplorer_65 Start: 41460, Stop: 41813, Start Num: 34

Candidate Starts for MulchExplorer_65:

(22, 41424), (Start: 34 @41460 has 100 MA's), (49, 41490), (51, 41493), (55, 41505), (57, 41511), (68, 41574), (71, 41583), (72, 41589), (90, 41703), (93, 41724), (102, 41781), (107, 41793),

Gene: MulchExplorer_64 Start: 41116, Stop: 41463, Start Num: 34

Candidate Starts for MulchExplorer_64:

(25, 41089), (31, 41107), (Start: 34 @41116 has 100 MA's), (Start: 50 @41146 has 1 MA's), (54, 41155), (58, 41173), (68, 41227), (74, 41254), (85, 41311), (88, 41341), (90, 41353),

Gene: Niblet_29 Start: 22015, Stop: 21665, Start Num: 39

Candidate Starts for Niblet_29:

(Start: 39 @22015 has 24 MA's), (66, 21916), (103, 21682),

Gene: NihilNomen_146 Start: 76776, Stop: 77129, Start Num: 37

Candidate Starts for NihilNomen_146:

(Start: 37 @76776 has 34 MA's), (85, 76977), (90, 77019),

Gene: Odette_148 Start: 78919, Stop: 79272, Start Num: 37

Candidate Starts for Odette_148:

(Start: 37 @78919 has 34 MA's), (85, 79120), (90, 79162),

Gene: Ogopogo_65 Start: 40778, Stop: 41143, Start Num: 34

Candidate Starts for Ogopogo_65:

(Start: 34 @40778 has 100 MA's), (52, 40811), (53, 40817), (57, 40829), (64, 40871), (71, 40901), (74, 40925), (75, 40928), (90, 41027), (91, 41033), (103, 41108), (105, 41111), (106, 41114),

Gene: Oppalora_30 Start: 21208, Stop: 20867, Start Num: 39
Candidate Starts for Oppalora_30:
(Start: 39 @21208 has 24 MA's), (Start: 50 @21190 has 1 MA's),

Gene: Optimus_135 Start: 74056, Stop: 74409, Start Num: 37
Candidate Starts for Optimus_135:
(Start: 37 @74056 has 34 MA's), (85, 74257), (90, 74299),

Gene: Orcanus_30 Start: 22223, Stop: 21873, Start Num: 39
Candidate Starts for Orcanus_30:
(Start: 39 @22223 has 24 MA's), (66, 22124), (105, 21890),

Gene: OtsoOtso_33 Start: 21713, Stop: 21363, Start Num: 39
Candidate Starts for OtsoOtso_33:
(Start: 39 @21713 has 24 MA's), (105, 21380),

Gene: Ovechkin_57 Start: 39962, Stop: 40309, Start Num: 34
Candidate Starts for Ovechkin_57:
(25, 39935), (31, 39953), (Start: 34 @39962 has 100 MA's), (Start: 50 @39992 has 1 MA's), (54, 40001), (58, 40019), (68, 40073), (74, 40100), (85, 40157), (88, 40187), (90, 40199),

Gene: Ovechkin_58 Start: 40306, Stop: 40659, Start Num: 34
Candidate Starts for Ovechkin_58:
(22, 40270), (Start: 34 @40306 has 100 MA's), (49, 40336), (51, 40339), (55, 40351), (57, 40357), (68, 40420), (71, 40429), (72, 40435), (90, 40549), (93, 40570), (102, 40627), (107, 40639),

Gene: Pelletreau_33 Start: 22425, Stop: 22072, Start Num: 39
Candidate Starts for Pelletreau_33:
(Start: 39 @22425 has 24 MA's), (66, 22326), (105, 22089),

Gene: Phalconet_58 Start: 39065, Stop: 39430, Start Num: 34
Candidate Starts for Phalconet_58:
(Start: 34 @39065 has 100 MA's), (52, 39098), (53, 39104), (57, 39116), (59, 39131), (64, 39158), (71, 39188), (74, 39212), (75, 39215), (90, 39314), (91, 39320), (103, 39395),

Gene: Phanphagia_57 Start: 40656, Stop: 41021, Start Num: 34
Candidate Starts for Phanphagia_57:
(Start: 34 @40656 has 100 MA's), (52, 40689), (53, 40695), (57, 40707), (64, 40749), (71, 40779), (74, 40803), (75, 40806), (90, 40905), (91, 40911), (103, 40986),

Gene: PhesterPhotato_60 Start: 39882, Stop: 40247, Start Num: 34
Candidate Starts for PhesterPhotato_60:
(Start: 34 @39882 has 100 MA's), (52, 39915), (53, 39921), (57, 39933), (59, 39948), (64, 39975), (71, 40005), (74, 40029), (75, 40032), (90, 40131), (91, 40137), (103, 40212),

Gene: PhirstandPhine_35 Start: 21992, Stop: 21642, Start Num: 39
Candidate Starts for PhirstandPhine_35:
(10, 22175), (19, 22082), (Start: 39 @21992 has 24 MA's), (105, 21659),

Gene: PhluffyCoco_31 Start: 21194, Stop: 20853, Start Num: 39
Candidate Starts for PhluffyCoco_31:
(Start: 39 @21194 has 24 MA's), (Start: 50 @21176 has 1 MA's),

Gene: Phoebus_144 Start: 78670, Stop: 79023, Start Num: 37

Candidate Starts for Phoebus_144:

(Start: 37 @78670 has 34 MA's), (85, 78871), (90, 78913),

Gene: Phrappuccino_165 Start: 110158, Stop: 110505, Start Num: 43

Candidate Starts for Phrappuccino_165:

(Start: 43 @110158 has 2 MA's), (54, 110191), (55, 110194), (57, 110200), (68, 110263), (100, 110455),

Gene: Pineda_34 Start: 22001, Stop: 21651, Start Num: 39

Candidate Starts for Pineda_34:

(2, 22508), (5, 22325), (10, 22184), (19, 22091), (Start: 39 @22001 has 24 MA's), (105, 21668),

Gene: Polka_32 Start: 21713, Stop: 21363, Start Num: 39

Candidate Starts for Polka_32:

(Start: 39 @21713 has 24 MA's), (105, 21380),

Gene: PopTart_54 Start: 38690, Stop: 39055, Start Num: 34

Candidate Starts for PopTart_54:

(Start: 34 @38690 has 100 MA's), (52, 38723), (53, 38729), (57, 38741), (64, 38783), (71, 38813), (74, 38837), (75, 38840), (90, 38939), (91, 38945), (103, 39020),

Gene: Porcelain_140 Start: 73737, Stop: 74090, Start Num: 37

Candidate Starts for Porcelain_140:

(17, 73635), (Start: 37 @73737 has 34 MA's), (85, 73938), (90, 73980),

Gene: Pound_136 Start: 76489, Stop: 76842, Start Num: 37

Candidate Starts for Pound_136:

(16, 76375), (17, 76387), (Start: 37 @76489 has 34 MA's), (85, 76690), (90, 76732),

Gene: Pupper_45 Start: 15769, Stop: 16101, Start Num: 45

Candidate Starts for Pupper_45:

(7, 15514), (Start: 33 @15742 has 23 MA's), (Start: 45 @15769 has 4 MA's), (59, 15823), (60, 15832), (68, 15871), (85, 15955), (97, 16045),

Gene: QuickMath_60 Start: 41684, Stop: 42037, Start Num: 34

Candidate Starts for QuickMath_60:

(22, 41648), (Start: 34 @41684 has 100 MA's), (49, 41714), (51, 41717), (55, 41729), (57, 41735), (68, 41798), (71, 41807), (72, 41813), (90, 41927), (93, 41948), (102, 42005), (107, 42017),

Gene: QuickMath_59 Start: 41340, Stop: 41687, Start Num: 34

Candidate Starts for QuickMath_59:

(25, 41313), (31, 41331), (Start: 34 @41340 has 100 MA's), (Start: 50 @41370 has 1 MA's), (54, 41379), (58, 41397), (68, 41451), (74, 41478), (85, 41535), (88, 41565), (90, 41577),

Gene: Quico_68 Start: 42216, Stop: 42581, Start Num: 34

Candidate Starts for Quico_68:

(Start: 34 @42216 has 100 MA's), (52, 42249), (54, 42258), (57, 42267), (64, 42309), (71, 42339), (74, 42363), (75, 42366), (90, 42465), (91, 42471), (103, 42546),

Gene: Rattail_31 Start: 21290, Stop: 20949, Start Num: 39

Candidate Starts for Rattail_31:

(Start: 39 @21290 has 24 MA's), (Start: 50 @21272 has 1 MA's),

Gene: RayTheFireFly_61 Start: 39688, Stop: 40050, Start Num: 33

Candidate Starts for RayTheFireFly_61:

(Start: 33 @39688 has 23 MA's), (68, 39811), (83, 39877),

Gene: RedFox_31 Start: 21207, Stop: 20866, Start Num: 39

Candidate Starts for RedFox_31:

(Start: 39 @21207 has 24 MA's), (Start: 50 @21189 has 1 MA's),

Gene: RedWattleHog_91 Start: 82425, Stop: 82775, Start Num: 41

Candidate Starts for RedWattleHog_91:

(Start: 41 @82425 has 2 MA's), (54, 82461), (77, 82572), (83, 82599), (85, 82617), (97, 82707),

Gene: Redno2_139 Start: 74778, Stop: 75131, Start Num: 37

Candidate Starts for Redno2_139:

(17, 74676), (Start: 37 @74778 has 34 MA's), (85, 74979), (90, 75021),

Gene: Renaud18_64 Start: 40462, Stop: 40815, Start Num: 34

Candidate Starts for Renaud18_64:

(22, 40426), (Start: 34 @40462 has 100 MA's), (55, 40507), (57, 40513), (68, 40576), (71, 40585), (79, 40621), (83, 40645), (107, 40795),

Gene: Renaud18_63 Start: 40118, Stop: 40465, Start Num: 34

Candidate Starts for Renaud18_63:

(25, 40091), (31, 40109), (Start: 34 @40118 has 100 MA's), (42, 40130), (Start: 50 @40148 has 1 MA's), (54, 40157), (68, 40229), (82, 40292), (85, 40313), (88, 40343),

Gene: Renna12_30 Start: 21228, Stop: 20887, Start Num: 39

Candidate Starts for Renna12_30:

(Start: 39 @21228 has 24 MA's), (52, 21207),

Gene: Royals2015_62 Start: 39826, Stop: 40179, Start Num: 34

Candidate Starts for Royals2015_62:

(22, 39790), (Start: 34 @39826 has 100 MA's), (49, 39856), (51, 39859), (55, 39871), (57, 39877), (68, 39940), (71, 39949), (72, 39955), (90, 40069), (93, 40090), (102, 40147), (107, 40159),

Gene: Royals2015_61 Start: 39482, Stop: 39829, Start Num: 34

Candidate Starts for Royals2015_61:

(25, 39455), (31, 39473), (Start: 34 @39482 has 100 MA's), (Start: 50 @39512 has 1 MA's), (54, 39521), (58, 39539), (68, 39593), (74, 39620), (85, 39677), (88, 39707), (90, 39719),

Gene: Ruchi_30 Start: 22625, Stop: 22281, Start Num: 39

Candidate Starts for Ruchi_30:

(Start: 39 @22625 has 24 MA's), (Start: 48 @22604 has 1 MA's), (57, 22580), (66, 22532), (105, 22298),

Gene: SCentae_45 Start: 15768, Stop: 16100, Start Num: 45

Candidate Starts for SCentae_45:

(7, 15513), (Start: 33 @15741 has 23 MA's), (Start: 45 @15768 has 4 MA's), (59, 15822), (60, 15831), (68, 15870), (85, 15954), (97, 16044),

Gene: Samba_50 Start: 37695, Stop: 38057, Start Num: 33

Candidate Starts for Samba_50:

(12, 37551), (13, 37587), (18, 37626), (Start: 33 @37695 has 23 MA's), (69, 37824), (74, 37848), (108, 38043),

Gene: Sandalphon_61 Start: 40762, Stop: 41127, Start Num: 34

Candidate Starts for Sandalphon_61:

(Start: 34 @40762 has 100 MA's), (52, 40795), (54, 40804), (57, 40813), (64, 40855), (71, 40885), (74, 40909), (75, 40912), (90, 41011), (91, 41017), (103, 41092),

Gene: Sarma624_56 Start: 35652, Stop: 35999, Start Num: 34

Candidate Starts for Sarma624_56:

(25, 35625), (31, 35643), (Start: 34 @35652 has 100 MA's), (Start: 50 @35682 has 1 MA's), (54, 35691), (58, 35709), (68, 35763), (74, 35790), (85, 35847), (88, 35877), (90, 35889),

Gene: Sarma624_57 Start: 35996, Stop: 36349, Start Num: 34

Candidate Starts for Sarma624_57:

(22, 35960), (Start: 34 @35996 has 100 MA's), (49, 36026), (51, 36029), (55, 36041), (57, 36047), (68, 36110), (71, 36119), (72, 36125), (90, 36239), (93, 36260), (102, 36317), (107, 36329),

Gene: SassyB_54 Start: 38690, Stop: 39055, Start Num: 34

Candidate Starts for SassyB_54:

(Start: 34 @38690 has 100 MA's), (52, 38723), (53, 38729), (57, 38741), (64, 38783), (71, 38813), (74, 38837), (75, 38840), (90, 38939), (91, 38945), (103, 39020),

Gene: Schatzie_140 Start: 77338, Stop: 77691, Start Num: 37

Candidate Starts for Schatzie_140:

(Start: 37 @77338 has 34 MA's), (85, 77539), (90, 77581),

Gene: Seagreen_58 Start: 39051, Stop: 39398, Start Num: 34

Candidate Starts for Seagreen_58:

(25, 39024), (31, 39042), (Start: 34 @39051 has 100 MA's), (Start: 50 @39081 has 1 MA's), (54, 39090), (58, 39108), (68, 39162), (74, 39189), (85, 39246), (88, 39276), (90, 39288),

Gene: Seagreen_59 Start: 39395, Stop: 39748, Start Num: 34

Candidate Starts for Seagreen_59:

(22, 39359), (Start: 34 @39395 has 100 MA's), (49, 39425), (51, 39428), (55, 39440), (57, 39446), (68, 39509), (71, 39518), (72, 39524), (90, 39638), (93, 39659), (102, 39716), (107, 39728),

Gene: Settecandela_165 Start: 110158, Stop: 110505, Start Num: 43

Candidate Starts for Settecandela_165:

(Start: 43 @110158 has 2 MA's), (54, 110191), (55, 110194), (57, 110200), (68, 110263), (100, 110455),

Gene: Shatter_48 Start: 41091, Stop: 40741, Start Num: 29

Candidate Starts for Shatter_48:

(Start: 29 @41091 has 10 MA's), (54, 41046), (57, 41037), (59, 41022), (68, 40974), (85, 40893),

Gene: Shauna1_58 Start: 40565, Stop: 40930, Start Num: 34

Candidate Starts for Shauna1_58:

(Start: 34 @40565 has 100 MA's), (52, 40598), (54, 40607), (57, 40616), (74, 40712), (75, 40715), (81, 40739), (90, 40814), (91, 40820), (103, 40895),

Gene: SilverChicken_70 Start: 40345, Stop: 40710, Start Num: 34

Candidate Starts for SilverChicken_70:

(Start: 34 @40345 has 100 MA's), (52, 40378), (53, 40384), (57, 40396), (64, 40438), (71, 40468), (74, 40492), (75, 40495), (90, 40594), (91, 40600), (103, 40675),

Gene: Sisko_47 Start: 41439, Stop: 41065, Start Num: 29

Candidate Starts for Sisko_47:

(Start: 29 @41439 has 10 MA's), (54, 41379), (67, 41316), (68, 41307), (89, 41187),

Gene: Sour_51 Start: 44771, Stop: 44406, Start Num: 28

Candidate Starts for Sour_51:

(24, 44777), (26, 44774), (Start: 28 @44771 has 1 MA's), (30, 44765), (Start: 46 @44750 has 1 MA's), (57, 44717), (59, 44702), (68, 44654), (73, 44633), (94, 44489), (95, 44483), (99, 44471), (104, 44444), (110, 44411),

Gene: Sparkdehlily_67 Start: 41576, Stop: 41941, Start Num: 34

Candidate Starts for Sparkdehlily_67:

(Start: 34 @41576 has 100 MA's), (52, 41609), (53, 41615), (57, 41627), (64, 41669), (71, 41699), (74, 41723), (75, 41726), (90, 41825), (91, 41831), (103, 41906),

Gene: Squiddly_84 Start: 50073, Stop: 50414, Start Num: 37

Candidate Starts for Squiddly_84:

(Start: 33 @50064 has 23 MA's), (Start: 37 @50073 has 34 MA's), (102, 50388),

Gene: Squirty_62 Start: 41343, Stop: 41708, Start Num: 34

Candidate Starts for Squirty_62:

(Start: 34 @41343 has 100 MA's), (52, 41376), (54, 41385), (57, 41394), (74, 41490), (75, 41493), (81, 41517), (90, 41592), (91, 41598), (103, 41673),

Gene: StAnnes_58 Start: 40743, Stop: 41108, Start Num: 34

Candidate Starts for StAnnes_58:

(Start: 34 @40743 has 100 MA's), (52, 40776), (53, 40782), (57, 40794), (64, 40836), (71, 40866), (74, 40890), (75, 40893), (90, 40992), (91, 40998), (103, 41073), (105, 41076),

Gene: StAugustine_140 Start: 84499, Stop: 84137, Start Num: 38

Candidate Starts for StAugustine_140:

(35, 84514), (Start: 38 @84499 has 4 MA's), (42, 84490), (47, 84475), (61, 84418), (63, 84409), (99, 84211),

Gene: Starceвич_58 Start: 39755, Stop: 40108, Start Num: 34

Candidate Starts for Starceвич_58:

(22, 39719), (Start: 34 @39755 has 100 MA's), (49, 39785), (51, 39788), (55, 39800), (57, 39806), (68, 39869), (71, 39878), (72, 39884), (90, 39998), (93, 40019), (102, 40076), (107, 40088),

Gene: Starceвич_57 Start: 39411, Stop: 39758, Start Num: 34

Candidate Starts for Starceвич_57:

(25, 39384), (31, 39402), (Start: 34 @39411 has 100 MA's), (Start: 50 @39441 has 1 MA's), (54, 39450), (58, 39468), (68, 39522), (74, 39549), (85, 39606), (88, 39636), (90, 39648),

Gene: Stormageddon_88 Start: 82406, Stop: 82756, Start Num: 41

Candidate Starts for Stormageddon_88:

(Start: 41 @82406 has 2 MA's), (54, 82442), (77, 82553), (83, 82580), (85, 82598), (97, 82688),

Gene: SuperGrey_63 Start: 42051, Stop: 42416, Start Num: 34

Candidate Starts for SuperGrey_63:

(Start: 34 @42051 has 100 MA's), (52, 42084), (53, 42090), (57, 42102), (64, 42144), (71, 42174), (74, 42198), (75, 42201), (90, 42300), (91, 42306), (103, 42381),

Gene: TChen_59 Start: 41008, Stop: 41361, Start Num: 34

Candidate Starts for TChen_59:

(22, 40972), (Start: 34 @41008 has 100 MA's), (55, 41053), (57, 41059), (68, 41122), (71, 41131), (79, 41167), (83, 41191), (107, 41341),

Gene: TChen_58 Start: 40664, Stop: 41011, Start Num: 34

Candidate Starts for TChen_58:

(25, 40637), (31, 40655), (Start: 34 @40664 has 100 MA's), (42, 40676), (Start: 50 @40694 has 1 MA's), (54, 40703), (64, 40754), (68, 40775), (82, 40838), (85, 40859), (88, 40889),

Gene: TDanisky_67 Start: 41576, Stop: 41941, Start Num: 34

Candidate Starts for TDanisky_67:

(Start: 34 @41576 has 100 MA's), (52, 41609), (53, 41615), (57, 41627), (64, 41669), (71, 41699), (74, 41723), (75, 41726), (90, 41825), (91, 41831), (103, 41906),

Gene: TaylorSipht_30 Start: 21627, Stop: 21286, Start Num: 39

Candidate Starts for TaylorSipht_30:

(Start: 39 @21627 has 24 MA's), (Start: 48 @21606 has 1 MA's), (66, 21534), (93, 21363), (103, 21303),

Gene: Tchotchke_60 Start: 39968, Stop: 40333, Start Num: 34

Candidate Starts for Tchotchke_60:

(Start: 34 @39968 has 100 MA's), (52, 40001), (53, 40007), (57, 40019), (64, 40061), (74, 40115), (75, 40118), (90, 40217), (91, 40223), (103, 40298),

Gene: ThetaBob_63 Start: 41082, Stop: 41435, Start Num: 34

Candidate Starts for ThetaBob_63:

(22, 41046), (Start: 34 @41082 has 100 MA's), (55, 41127), (57, 41133), (68, 41196), (71, 41205), (79, 41241), (83, 41265), (107, 41415),

Gene: ThetaBob_62 Start: 40738, Stop: 41085, Start Num: 34

Candidate Starts for ThetaBob_62:

(25, 40711), (31, 40729), (Start: 34 @40738 has 100 MA's), (42, 40750), (Start: 50 @40768 has 1 MA's), (54, 40777), (64, 40828), (68, 40849), (82, 40912), (85, 40933), (88, 40963),

Gene: Thibault_127 Start: 73673, Stop: 74026, Start Num: 37

Candidate Starts for Thibault_127:

(14, 73550), (15, 73562), (Start: 37 @73673 has 34 MA's), (85, 73874), (90, 73916),

Gene: ThreeRngTarjay_139 Start: 77261, Stop: 77614, Start Num: 37

Candidate Starts for ThreeRngTarjay_139:

(Start: 37 @77261 has 34 MA's), (85, 77462), (90, 77504),

Gene: Toad24_32 Start: 22672, Stop: 22322, Start Num: 39

Candidate Starts for Toad24_32:

(Start: 39 @22672 has 24 MA's), (66, 22573), (105, 22339),

Gene: Topiatin_65 Start: 41903, Stop: 42250, Start Num: 34

Candidate Starts for Topiatin_65:

(25, 41876), (31, 41894), (Start: 34 @41903 has 100 MA's), (Start: 50 @41933 has 1 MA's), (54, 41942), (58, 41960), (68, 42014), (74, 42041), (85, 42098), (88, 42128), (90, 42140),

Gene: Topiatin_66 Start: 42247, Stop: 42600, Start Num: 34

Candidate Starts for Topiatin_66:

(22, 42211), (Start: 34 @42247 has 100 MA's), (49, 42277), (51, 42280), (55, 42292), (57, 42298), (68, 42361), (71, 42370), (72, 42376), (90, 42490), (93, 42511), (102, 42568), (107, 42580),

Gene: Tweety_59 Start: 41367, Stop: 41732, Start Num: 34

Candidate Starts for Tweety_59:

(Start: 34 @41367 has 100 MA's), (52, 41400), (53, 41406), (57, 41418), (64, 41460), (71, 41490), (74, 41514), (75, 41517), (90, 41616), (91, 41622), (103, 41697),

Gene: Utz_44 Start: 35948, Stop: 36310, Start Num: 33

Candidate Starts for Utz_44:

(11, 35798), (12, 35804), (13, 35840), (18, 35879), (Start: 33 @35948 has 23 MA's), (69, 36077), (74, 36101),

Gene: Velveteen_53 Start: 35652, Stop: 35999, Start Num: 34

Candidate Starts for Velveteen_53:

(25, 35625), (31, 35643), (Start: 34 @35652 has 100 MA's), (Start: 50 @35682 has 1 MA's), (54, 35691), (58, 35709), (68, 35763), (74, 35790), (85, 35847), (88, 35877), (90, 35889),

Gene: Velveteen_54 Start: 35996, Stop: 36349, Start Num: 34

Candidate Starts for Velveteen_54:

(22, 35960), (Start: 34 @35996 has 100 MA's), (49, 36026), (51, 36029), (55, 36041), (57, 36047), (68, 36110), (71, 36119), (72, 36125), (90, 36239), (93, 36260), (102, 36317), (107, 36329),

Gene: Vibaki_44 Start: 34927, Stop: 35295, Start Num: 40

Candidate Starts for Vibaki_44:

(Start: 40 @34927 has 4 MA's), (81, 35080), (85, 35113), (86, 35128),

Gene: Vitus_45 Start: 33911, Stop: 34246, Start Num: 40

Candidate Starts for Vitus_45:

(Start: 40 @33911 has 4 MA's), (81, 34061), (85, 34094),

Gene: Vulpecula_30 Start: 22301, Stop: 21957, Start Num: 39

Candidate Starts for Vulpecula_30:

(Start: 39 @22301 has 24 MA's), (Start: 48 @22280 has 1 MA's), (57, 22256), (66, 22208),

Gene: Wachhund_61 Start: 40167, Stop: 40532, Start Num: 34

Candidate Starts for Wachhund_61:

(Start: 34 @40167 has 100 MA's), (52, 40200), (54, 40209), (57, 40218), (64, 40260), (71, 40290), (74, 40314), (75, 40317), (90, 40416), (91, 40422), (103, 40497), (105, 40500), (106, 40503),

Gene: Wanda_144 Start: 74968, Stop: 75321, Start Num: 37

Candidate Starts for Wanda_144:

(Start: 37 @74968 has 34 MA's), (85, 75169), (90, 75211),

Gene: Westrich_33 Start: 22349, Stop: 21999, Start Num: 39

Candidate Starts for Westrich_33:

(Start: 39 @22349 has 24 MA's), (66, 22250), (105, 22016),

Gene: Whatsapiecost_60 Start: 39457, Stop: 39822, Start Num: 34

Candidate Starts for Whatsapiecost_60:

(Start: 34 @39457 has 100 MA's), (52, 39490), (53, 39496), (57, 39508), (64, 39550), (71, 39580), (74, 39604), (75, 39607), (90, 39706), (91, 39712), (103, 39787), (105, 39790), (106, 39793),

Gene: WileyE_32 Start: 21673, Stop: 21350, Start Num: 48

Candidate Starts for WileyE_32:

(Start: 39 @21694 has 24 MA's), (Start: 48 @21673 has 1 MA's), (66, 21601), (93, 21430), (105, 21367),

Gene: Wisp_50 Start: 36176, Stop: 36538, Start Num: 33

Candidate Starts for Wisp_50:

(13, 36068), (18, 36107), (Start: 33 @36176 has 23 MA's), (62, 36275), (68, 36302), (69, 36305), (74, 36329), (84, 36374),

Gene: XFactor_58 Start: 39256, Stop: 39621, Start Num: 34

Candidate Starts for XFactor_58:

(Start: 34 @39256 has 100 MA's), (52, 39289), (53, 39295), (57, 39307), (64, 39349), (71, 39379), (74, 39403), (75, 39406), (90, 39505), (91, 39511), (103, 39586), (105, 39589),

Gene: Yago84_47 Start: 41514, Stop: 41140, Start Num: 29

Candidate Starts for Yago84_47:

(Start: 29 @41514 has 10 MA's), (54, 41454), (67, 41391), (68, 41382), (89, 41262),

Gene: Yeet_138 Start: 76734, Stop: 77087, Start Num: 37

Candidate Starts for Yeet_138:

(17, 76632), (Start: 37 @76734 has 34 MA's), (85, 76935), (90, 76977),

Gene: Yoshi_71 Start: 41346, Stop: 41699, Start Num: 34

Candidate Starts for Yoshi_71:

(22, 41310), (Start: 34 @41346 has 100 MA's), (55, 41391), (57, 41397), (68, 41460), (71, 41469), (79, 41505), (83, 41529), (107, 41679),

Gene: Yoshi_70 Start: 41002, Stop: 41349, Start Num: 34

Candidate Starts for Yoshi_70:

(25, 40975), (31, 40993), (Start: 34 @41002 has 100 MA's), (42, 41014), (Start: 50 @41032 has 1 MA's), (54, 41041), (64, 41092), (68, 41113), (82, 41176), (85, 41197), (88, 41227),

Gene: Zarbodnamra_50 Start: 34890, Stop: 35252, Start Num: 33

Candidate Starts for Zarbodnamra_50:

(12, 34746), (13, 34782), (18, 34821), (Start: 33 @34890 has 23 MA's), (69, 35019), (74, 35043),

Gene: Zelink_139 Start: 77780, Stop: 78133, Start Num: 37

Candidate Starts for Zelink_139:

(Start: 37 @77780 has 34 MA's), (85, 77981), (90, 78023),

Gene: ZiggyZoo_51 Start: 37223, Stop: 37585, Start Num: 33

Candidate Starts for ZiggyZoo_51:

(13, 37115), (18, 37154), (Start: 33 @37223 has 23 MA's), (62, 37322), (68, 37349), (69, 37352), (74, 37376),

Gene: Zilla_50 Start: 34637, Stop: 34999, Start Num: 33

Candidate Starts for Zilla_50:

(12, 34493), (13, 34529), (18, 34568), (Start: 33 @34637 has 23 MA's), (69, 34766), (74, 34790),

Gene: Zixiang_29 Start: 22031, Stop: 21678, Start Num: 39

Candidate Starts for Zixiang_29:

(Start: 39 @22031 has 24 MA's), (66, 21932), (105, 21695),