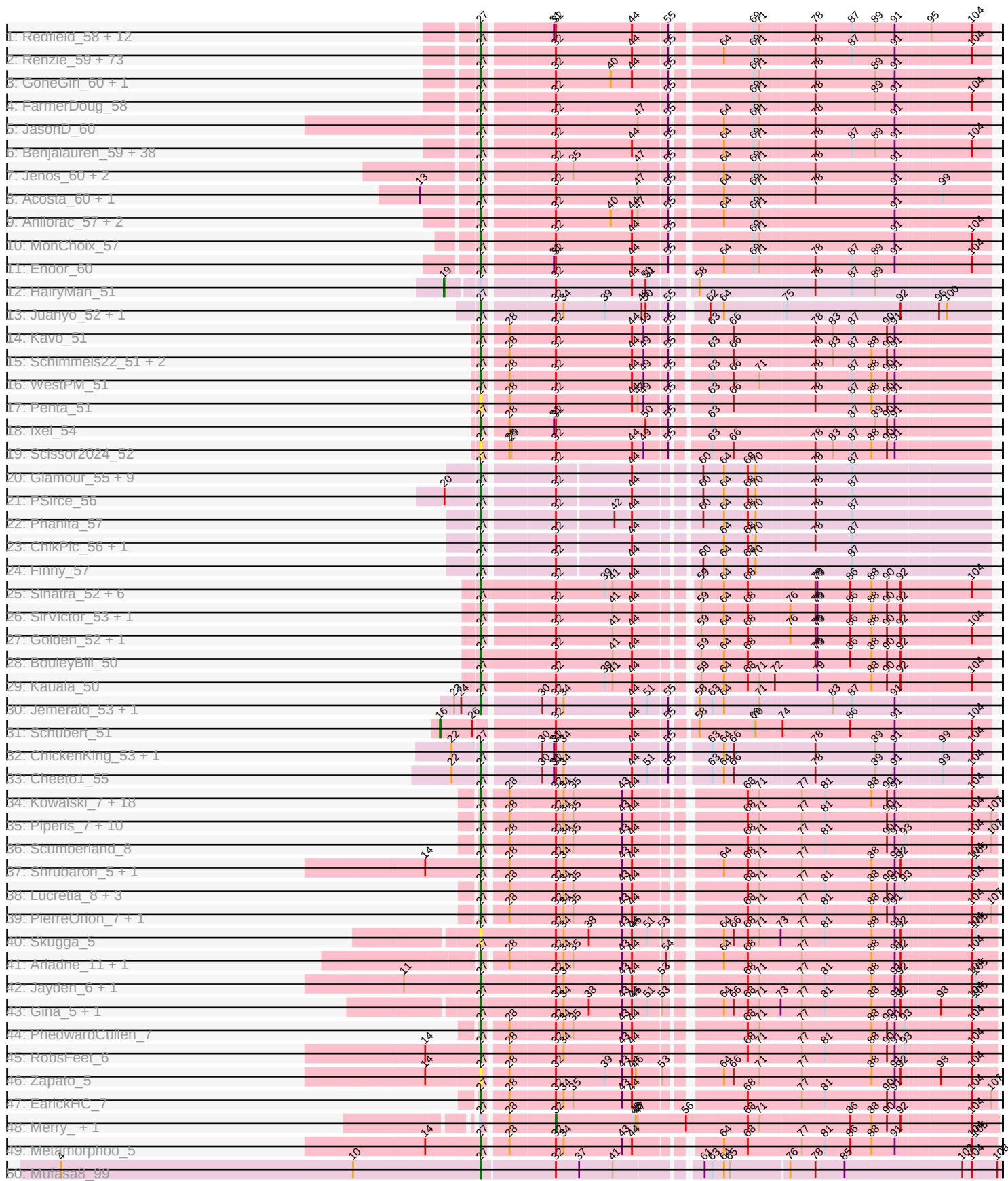


Pham 330454



[illegible]

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 330454 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330454 has 245 members, 22 are drafts.

Phages represented in each track:

- Track 1 : Redfield_58, Soror1_57, Leafus_58, KingJulien_57, Raccoon_58, Hamlet_58, Balsa_57, Etna_58, BeeBee8_59, Schnapsidee_58, Stormbreaker8_57, PhillyPhantom_58, Peppino_58
- Track 2 : Renzie_59, TatarkaPM_59, Den3_59, AranulaLuti_58, PhredFlintston_59, Ioannes_59, TinSulphur_60, Thompsone_59, Dothraki_59, Inventa_59, SoilGremlin_59, BonesMcCoy_59, Stanktossa_58, SolidSnake_60, Greys_59, Convict_59, Thorongil_59, MillyPhilly_59, Winzigespinne_58, Blage_59, Duocatuli_58, Peep_59, Velene_59, Zada_60, JeriBeth_58, Baines_58, Symere_58, KannH_58, Papafritta_58, Phireproof_59, Dave_59, Byron23_60, Robinson_59, Pherferi_59, Sedgewig_58, HanSolo_58, HankSprout_59, Oxtober96_60, WildNOut_59, StirfryIV_58, Antoinette_59, Ilzat_58, Knox_59, Clancy_58, Janus167_58, Teagan_59, GoingMerry_59, Phriends_58, Lovelyunicorn_59, Delphidian_58, Merida02_60, Figueroism_59, Etta_58, MrWorldwide_59, Phiderman_59, Shee_59, AlexAdler_59, JasperRussell_58, Rapheph_59, Raptor_59, MaeLinda_59, ParleG_59, CoraRita_58, Superfresh_59, StingRay_58, BigRedClifford_59, BeautPeep30_59, NickSell_59, Riylhil_59, OldNelly_59, Martin_60, Bandik_59, Chako_58, Kurt1_59
- Track 3 : GoneGirl_60, GardenB_59
- Track 4 : FarmerDoug_58
- Track 5 : JasonD_60
- Track 6 : Benjalauren_59, Kouch_59, Erla_58, Garey24_59, Exploradora_58, KellyGreen_60, Chamuel_58, Bonino_58, Nattles_58, Asta_58, Gershwin_58, Alyxandracam_59, ManRay_58, Vispistious_59, AxiPup_59, Espinosa_58, HungryHenry_58, Calix_58, SJay_59, Rog141_58, RosieMae_58, SonOfLevi_59, Strathdee_59, Gelo_58, Oats_58, Jerbirus_60, Klimt_59, Pocket_58, Gargoyle_59, TeddyBear_58, Christoph_58, ShaiHulud_59, Nagem_59, PuppyEggo_59, Gubbabump_58, Tenda_58, Kale_58, Aubergine_58, Ludgate_59
- Track 7 : Jenos_60, McGalleon_59, CarisSwetlik_58
- Track 8 : Acosta_60, HavenFinLeoSun_60
- Track 9 : Anilorac_57, Aleyra_58, Agente005_58
- Track 10 : MonChoix_57
- Track 11 : Endor_60
- Track 12 : HairyMan_51
- Track 13 : Juanyo_52, MiniVolent_51
- Track 14 : Kavo_51
- Track 15 : Schimmels22_51, HerculesXL_52, Tinyman4_51
- Track 16 : WestPM_51

- Track 17 : Penta_51
- Track 18 : Ixel_54
- Track 19 : Scissor2024_52
- Track 20 : Glamour_55, Orpington_56, Eleri_56, MCubed_56, Shamu_56, ColaCorta_56, Andromedas_56, Saratos_56, Xebius_56, Zenitsu_56
- Track 21 : PSirce_56
- Track 22 : Phanita_57
- Track 23 : ChikPic_56, Sansa_54
- Track 24 : Finny_57
- Track 25 : Sinatra_52, Pherbot_51, Bustleton_51, Koji_50, RenegadeRaider_53, Jingles_52, PrincePhergus_51
- Track 26 : SirVictor_53, Guetzie_53
- Track 27 : Golden_52, Lucky3_52
- Track 28 : BouleyBill_50
- Track 29 : Kauala_50
- Track 30 : Jemerald_53, Juicer_53
- Track 31 : Schubert_51
- Track 32 : ChickenKing_53, GaeCeo_55
- Track 33 : Cheeto1_55
- Track 34 : Kowalski_7, Antares_8, CrazyRich_7, BeagleBug_7, Onika_7, Ramiel05_7, BrazzalePHS_7, LittleFortune_8, Paschalis_7, Germa_9, Jefe_8, Hermeonysus_7, Jollipop_7, Shotgun_7, SirFrank_7, PiperSansNom_8, Phorgeous_7, Savannah_7, Rockwell_7
- Track 35 : Piperis_7, Yeti_7, Honeyfin_8, Cranjis_7, ClearAsMud_7, Phrancesco_8, Pulchra_8, Selwyn23_8, KaiHaiDragon_7, Glorp_7, Quhwah_8
- Track 36 : Scumberland_8
- Track 37 : Shrubaron_5, Fireman_5
- Track 38 : Lucretia_8, Busephilis_8, Ganandorf_7, NoodlelyBoi_7
- Track 39 : PierreOrion_7, Crisis_7
- Track 40 : Skugga_5
- Track 41 : Ariadne_11, Smarties_11
- Track 42 : Jayden_6, Tyrumbra_5
- Track 43 : Gina_5, Teamocil_5
- Track 44 : PhedwardCullen_7
- Track 45 : RobsFeet_6
- Track 46 : Zapato_5
- Track 47 : EarickHC_7
- Track 48 : Merry_, Sunny_
- Track 49 : Metamorphoo_5
- Track 50 : Mufasa8_99
- Track 51 : PorkBelly_35
- Track 52 : Gingerbug_61
- Track 53 : Sweetums_64
- Track 54 : Lesiram_63
- Track 55 : DelaGarza_62
- Track 56 : Teng_66

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

The start number called the most often in the published annotations is 27, it was called in 218 of the 223 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_60, Agente005_58, AlexAdler_59, Aleyra_58, Alyxandracam_59, Andromedas_56, Anilorac_57, Antares_8, Antoinette_59, AranulaLuti_58, Ariadne_11, Asta_58, Aubergine_58, AxiPup_59, Baines_58, Balsa_57, Bandik_59, BeagleBug_7, BeautPeep30_59, BeeBee8_59, Benjalauren_59, BigRedClifford_59, Blage_59, BonesMcCoy_59, Bonino_58, BouleyBill_50, BrazzalePHS_7, Busephilis_8, Bustleton_51, Byron23_60, Calix_58, CarisSwetlik_58, Chako_58, Chamuel_58, Cheeto1_55, ChickenKing_53, ChikPic_56, Christoph_58, Clancy_58, ClearAsMud_7, ColaCorta_56, Convict_59, CoraRita_58, Cranjis_7, CrazyRich_7, Crisis_7, Dave_59, DelaGarza_62, Delphidian_58, Den3_59, Dothraki_59, Duocatuli_58, EarickHC_7, Eleri_56, Endor_60, Erla_58, Espinosa_58, Etna_58, Etta_58, Exploradora_58, FarmerDoug_58, Figueroism_59, Finny_57, Fireman_5, GaeCeo_55, Ganandorf_7, GardenB_59, Garey24_59, Gargoyle_59, Gelo_58, Germa_9, Gershwin_58, Gina_5, Glamour_55, Glorp_7, GoingMerry_59, Golden_52, GoneGirl_60, Greys_59, Gubbabump_58, Guetzie_53, Hamlet_58, HanSolo_58, HankSprout_59, HavenFinLeoSun_60, HerculesXL_52, Hermeonysus_7, Honeyfin_8, HungryHenry_58, Ilzat_58, Inventa_59, Ioannes_59, Ixel_54, Janus167_58, JasonD_60, JasperRussell_58, Jayden_6, Jefe_8, Jemerald_53, Jenos_60, Jerbirus_60, JeriBeth_58, Jingles_52, Jollipop_7, Juanyo_52, Juicer_53, KaiHaiDragon_7, Kale_58, KannH_58, Kauala_50, Kavo_51, KellyGreen_60, KingJulien_57, Klimt_59, Knox_59, Koji_50, Kouch_59, Kowalski_7, Kurt1_59, Leafus_58, Lesiram_63, LittleFortune_8, Lovelyunicorn_59, Lucky3_52, Lucretia_8, Ludgate_59, MCubed_56, MaeLinda_59, ManRay_58, Martin_60, McGalleon_59, Merida02_60, Metamorphoo_5, MillyPhilly_59, MiniVolent_51, MonChoix_57, MrWorldwide_59, Mufasa8_99, Nagem_59, Nattles_58, NickSell_59, NoodlelyBoi_7, Oats_58, OldNelly_59, Onika_7, Orpington_56, Oxtober96_60, PSirce_56, PapaFritta_58, ParleG_59, Paschalis_7, Peep_59, Penta_51, Peppino_58, Phanita_57, PhedwardCullen_7, Pherbot_51, Pherferi_59, Phiderman_59, PhillyPhantom_58, Phireproof_59, Phorgeous_7, Phrancesco_8, PhredFlintston_59, Phriends_58, PierreOrion_7, PiperSansNom_8, Piperis_7, Pocket_58, PrincePhergus_51, Pulchra_8, PuppyEggo_59, Quhwah_8, Raccoon_58, Ramiel05_7, Rapheph_59, Raptor_59, Redfield_58, RenegadeRaider_53, Renzie_59, Rihhil_59, Robinson_59, RobsFeet_6, Rockwell_7, Rog141_58, RosieMae_58, SJay_59, Sansa_54, Saratos_56, Savannah_7, Schimmels22_51, Schnapsidee_58, Scissor2024_52, Scumberland_8, Sedgewig_58, Selwyn23_8, ShaiHulud_59, Shamu_56, Shee_59, Shotgun_7, Shrubaron_5, Sinatra_52, SirFrank_7, SirVictor_53, Skugga_5, Smarties_11, SoilGremlin_59, SolidSnake_60, SonOfLevi_59, Soror1_57, Stanktossa_58, StingRay_58, StirfryIV_58, Stormbreaker8_57, Strathdee_59, Superfresh_59, Sweetums_64, Symere_58, TatarkaPM_59, Teagan_59, Teamocil_5, TeddyBear_58, Tenda_58, Teng_66, Thompsone_59, Thorongil_59, TinSulphur_60, Tinyman4_51, Tyumbra_5, Velene_59, Vispistious_59, WestPM_51, WildNOut_59, Winzigespinne_58, Xebius_56, Yeti_7, Zada_60, Zapato_5, Zenitsu_56,

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

- Gingerbug_61, HairyMan_51, Merry_, Sunny_,

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

- PorkBelly_35, Schubert_51,

Summary by start number:

Start 15:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gingerbug_61 (GF),

Start 16:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schubert_51 (EA8),

Start 19:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HairyMan_51 (EA10),

Start 25:

- Found in 1 of 245 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PorkBelly_35 (FJ),

Start 27:

- Found in 243 of 245 (99.2%) of genes in pham
- Manual Annotations of this start: 218 of 223
- Called 98.4% of time when present
- Phage (with cluster) where this start called: Acosta_60 (EA1), Agente005_58 (EA1), AlexAdler_59 (EA1), Aleyra_58 (EA1), Alyxandracam_59 (EA1), Andromedas_56 (EA2), Anilorac_57 (EA1), Antares_8 (EC), Antoinette_59 (EA1), AranulaLuti_58 (EA1), Ariadne_11 (EC), Asta_58 (EA1), Aubergine_58 (EA1), AxiPup_59 (EA1), Baines_58 (EA1), Balsa_57 (EA1), Bandik_59 (EA1), BeagleBug_7 (EC), BeautPeep30_59 (EA1), BeeBee8_59 (EA1), Benjalauren_59 (EA1), BigRedClifford_59 (EA1), Blage_59 (EA1), BonesMcCoy_59 (EA1), Bonino_58 (EA1), BouleyBill_50 (EA4), BrazzalePHS_7 (EC), Busephilis_8 (EC), Bustleton_51 (EA4), Byron23_60 (EA1), Calix_58 (EA1), CarisSwetlik_58 (EA1), Chako_58 (EA1), Chamuel_58 (EA1), Cheeto1_55 (EA9), ChickenKing_53 (EA9), ChikPic_56 (EA2), Christoph_58 (EA1), Clancy_58 (EA1), ClearAsMud_7 (EC), ColaCorta_56 (EA2), Convict_59 (EA1), CoraRita_58 (EA1), Cranjis_7 (EC), CrazyRich_7 (EC), Crisis_7 (EC), Dave_59 (EA1), DelaGarza_62 (GF), Delphidian_58 (EA1), Den3_59 (EA1), Dothraki_59 (EA1), Duocatuli_58 (EA1), EarickHC_7 (EC), Eleri_56 (EA2), Endor_60 (EA1), Erla_58 (EA1), Espinosa_58 (EA1), Etna_58 (EA1), Etta_58 (EA1), Exploradora_58 (EA1), FarmerDoug_58 (EA1), Figueroism_59 (EA1), Finny_57 (EA2), Fireman_5 (EC), GaeCeo_55 (EA9), Ganandorf_7 (EC), GardenB_59 (EA1), Garey24_59 (EA1), Gargoyles_59 (EA1), Gelo_58 (EA1), Germa_9 (EC), Gershwin_58 (EA1), Gina_5 (EC), Glamour_55 (EA2), Glorp_7 (EC), GoingMerry_59 (EA1), Golden_52 (EA4), GoneGirl_60 (EA1), Greys_59 (EA1), Gubbabump_58 (EA1), Guetzie_53 (EA4), Hamlet_58 (EA1), HanSolo_58 (EA1), HankSprout_59 (EA1), HavenFinLeoSun_60 (EA1), HerculesXL_52 (EA11), Hermeonysus_7 (EC), Honeyfin_8 (EC), HungryHenry_58 (EA1), Ilzat_58 (EA1), Inventa_59 (EA1),

Ioannes_59 (EA1), Ixel_54 (EA11), Janus167_58 (EA1), JasonD_60 (EA1), JasperRussell_58 (EA1), Jayden_6 (EC), Jefe_8 (EC), Jemerald_53 (EA6), Jenos_60 (EA1), Jerbirus_60 (EA1), JeriBeth_58 (EA1), Jingles_52 (EA4), Jollipop_7 (EC), Juanyo_52 (EA10), Juicer_53 (EA6), KaiHaiDragon_7 (EC), Kale_58 (EA1), KannH_58 (EA1), Kauala_50 (EA4), Kavo_51 (EA11), KellyGreen_60 (EA1), KingJulien_57 (EA1), Klimt_59 (EA1), Knox_59 (EA1), Koji_50 (EA4), Kouch_59 (EA1), Kowalski_7 (EC), Kurt1_59 (EA1), Leafus_58 (EA1), Lesiram_63 (GF), LittleFortune_8 (EC), Lovelyunicorn_59 (EA1), Lucky3_52 (EA4), Lucretia_8 (EC), Ludgate_59 (EA1), MCubed_56 (EA2), MaeLinda_59 (EA1), ManRay_58 (EA1), Martin_60 (EA1), McGalleon_59 (EA1), Merida02_60 (EA1), Metamorphoo_5 (EC), MillyPhilly_59 (EA1), MiniVolent_51 (EA10), MonChoix_57 (EA1), MrWorldwide_59 (EA1), Mufasa8_99 (FG), Nagem_59 (EA1), Nattles_58 (EA1), NickSell_59 (EA1), NoodlelyBoi_7 (EC), Oats_58 (EA1), OldNelly_59 (EA1), Onika_7 (EC), Orpington_56 (EA2), Oxtober96_60 (EA1), PSirce_56 (EA2), Papafritta_58 (EA1), ParleG_59 (EA1), Paschalis_7 (EC), Peep_59 (EA1), Penta_51 (EA11), Peppino_58 (EA1), Phanita_57 (EA2), PhedwardCullen_7 (EC), Pherbot_51 (EA4), Pherferi_59 (EA1), Phiderman_59 (EA1), PhillyPhantom_58 (EA1), Phireproof_59 (EA1), Phorgeous_7 (EC), Phrancesco_8 (EC), PhredFlintston_59 (EA1), Phriends_58 (EA1), PierreOrion_7 (EC), PiperSansNom_8 (EC), Piperis_7 (EC), Pocket_58 (EA1), PrincePhergus_51 (EA4), Pulchra_8 (EC), PuppyEggo_59 (EA1), Quhwah_8 (EC), Raccoon_58 (EA1), Ramiel05_7 (EC), Rapheph_59 (EA1), Raptor_59 (EA1), Redfield_58 (EA1), RenegadeRaider_53 (EA4), Renzie_59 (EA1), Riyhil_59 (EA1), Robinson_59 (EA1), RobsFeet_6 (EC), Rockwell_7 (EC), Rog141_58 (EA1), RosieMae_58 (EA1), SJay_59 (EA1), Sansa_54 (EA2), Saratos_56 (EA2), Savannah_7 (EC), Schimmels22_51 (EA11), Schnapsidee_58 (EA1), Scissor2024_52 (EA11), Scumberland_8 (EC), Sedgewig_58 (EA1), Selwyn23_8 (EC), ShaiHulud_59 (EA1), Shamu_56 (EA2), Shee_59 (EA1), Shotgun_7 (EC), Shrubaron_5 (EC), Sinatra_52 (EA4), SirFrank_7 (EC), SirVictor_53 (EA4), Skugga_5 (EC), Smarties_11 (EC), SoilGremlin_59 (EA1), SolidSnake_60 (EA1), SonOfLevi_59 (EA1), Soror1_57 (EA1), Stanktossa_58 (EA1), StingRay_58 (EA1), StirfryIV_58 (EA1), Stormbreaker8_57 (EA1), Strathdee_59 (EA1), Superfresh_59 (EA1), Sweetums_64 (GF), Symere_58 (EA1), TatarkaPM_59 (EA1), Teagan_59 (EA1), Teamocil_5 (EC), TeddyBear_58 (EA1), Tenda_58 (EA1), Teng_66 (GF), Thompsons_59 (EA1), Thorongil_59 (EA1), TinSulphur_60 (EA1), Tinyman4_51 (EA11), Tyumbra_5 (EC), Velene_59 (EA1), Vispistious_59 (EA1), WestPM_51 (EA11), WildNOut_59 (EA1), Winzigespinne_58 (EA1), Xebius_56 (EA2), Yeti_7 (EC), Zada_60 (EA1), Zapato_5 (EC), Zenitsu_56 (EA2),

Start 32:

- Found in 245 of 245 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 223
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Merry_ (EC), Sunny_ (EC),

Summary by clusters:

There are 12 clusters represented in this pham: EA11, EA10, EA8, EC, EA9, GF, FG, EA1, FJ, EA2, EA4, EA6,

Info for manual annotations of cluster EA1:

- Start number 27 was manually annotated 132 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 19 was manually annotated 1 time for cluster EA10.
- Start number 27 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 27 was manually annotated 6 times for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 27 was manually annotated 13 times for cluster EA2.

Info for manual annotations of cluster EA4:

- Start number 27 was manually annotated 12 times for cluster EA4.

Info for manual annotations of cluster EA6:

- Start number 27 was manually annotated 2 times for cluster EA6.

Info for manual annotations of cluster EA8:

- Start number 16 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 27 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EC:

- Start number 27 was manually annotated 45 times for cluster EC.
- Start number 32 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster FG:

- Start number 27 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster GF:

- Start number 15 was manually annotated 1 time for cluster GF.
- Start number 27 was manually annotated 3 times for cluster GF.

Gene Information:

Gene: Acosta_60 Start: 39620, Stop: 38892, Start Num: 27

Candidate Starts for Acosta_60:

(13, 39701), (Start: 27 @39620 has 218 MA's), (Start: 32 @39521 has 2 MA's), (47, 39395), (55, 39353), (64, 39290), (69, 39245), (71, 39236), (78, 39155), (91, 39032), (99, 38966),

Gene: Agente005_58 Start: 39399, Stop: 38668, Start Num: 27

Candidate Starts for Agente005_58:

(Start: 27 @39399 has 218 MA's), (Start: 32 @39300 has 2 MA's), (40, 39216), (44, 39183), (47, 39174), (55, 39132), (64, 39066), (69, 39021), (71, 39012), (91, 38808),

Gene: AlexAdler_59 Start: 39579, Stop: 38848, Start Num: 27

Candidate Starts for AlexAdler_59:

(Start: 27 @39579 has 218 MA's), (Start: 32 @39477 has 2 MA's), (44, 39360), (55, 39309), (64, 39246), (69, 39201), (71, 39192), (78, 39111), (87, 39054), (91, 38988), (104, 38877),

Gene: Aleyra_58 Start: 39404, Stop: 38673, Start Num: 27

Candidate Starts for Aleyra_58:

(Start: 27 @39404 has 218 MA's), (Start: 32 @39305 has 2 MA's), (40, 39221), (44, 39188), (47, 39179), (55, 39137), (64, 39071), (69, 39026), (71, 39017), (91, 38813),

Gene: Alyxandracam_59 Start: 39516, Stop: 38785, Start Num: 27

Candidate Starts for Alyxandracam_59:

(Start: 27 @39516 has 218 MA's), (Start: 32 @39414 has 2 MA's), (44, 39297), (55, 39246), (64, 39183), (69, 39138), (71, 39129), (78, 39048), (87, 38991), (89, 38955), (91, 38925), (104, 38814),

Gene: Andromedas_56 Start: 37751, Stop: 37026, Start Num: 27

Candidate Starts for Andromedas_56:

(Start: 27 @37751 has 218 MA's), (Start: 32 @37649 has 2 MA's), (44, 37541), (60, 37454), (64, 37424), (68, 37388), (70, 37376), (78, 37289), (87, 37232),

Gene: Anilorac_57 Start: 39306, Stop: 38575, Start Num: 27

Candidate Starts for Anilorac_57:

(Start: 27 @39306 has 218 MA's), (Start: 32 @39207 has 2 MA's), (40, 39123), (44, 39090), (47, 39081), (55, 39039), (64, 38973), (69, 38928), (71, 38919), (91, 38715),

Gene: Antares_8 Start: 3682, Stop: 4422, Start Num: 27

Candidate Starts for Antares_8:

(Start: 27 @3682 has 218 MA's), (28, 3715), (Start: 32 @3784 has 2 MA's), (34, 3796), (35, 3811), (43, 3886), (44, 3901), (68, 4045), (71, 4063), (77, 4129), (81, 4165), (88, 4237), (90, 4261), (91, 4273), (104, 4384),

Gene: Antoinette_59 Start: 39604, Stop: 38873, Start Num: 27

Candidate Starts for Antoinette_59:

(Start: 27 @39604 has 218 MA's), (Start: 32 @39502 has 2 MA's), (44, 39385), (55, 39334), (64, 39271), (69, 39226), (71, 39217), (78, 39136), (87, 39079), (91, 39013), (104, 38902),

Gene: AranulaLuti_58 Start: 39296, Stop: 38565, Start Num: 27

Candidate Starts for AranulaLuti_58:

(Start: 27 @39296 has 218 MA's), (Start: 32 @39194 has 2 MA's), (44, 39077), (55, 39026), (64, 38963), (69, 38918), (71, 38909), (78, 38828), (87, 38771), (91, 38705), (104, 38594),

Gene: Ariadne_11 Start: 4460, Stop: 5197, Start Num: 27

Candidate Starts for Ariadne_11:

(Start: 27 @4460 has 218 MA's), (28, 4493), (Start: 32 @4562 has 2 MA's), (34, 4574), (35, 4589), (43, 4664), (44, 4679), (54, 4727), (64, 4787), (68, 4823), (77, 4907), (88, 5015), (91, 5051), (92, 5060), (104, 5162),

Gene: Asta_58 Start: 39301, Stop: 38570, Start Num: 27

Candidate Starts for Asta_58:

(Start: 27 @39301 has 218 MA's), (Start: 32 @39199 has 2 MA's), (44, 39082), (55, 39031), (64, 38968), (69, 38923), (71, 38914), (78, 38833), (87, 38776), (89, 38740), (91, 38710), (104, 38599),

Gene: Aubergine_58 Start: 39301, Stop: 38570, Start Num: 27

Candidate Starts for Aubergine_58:

(Start: 27 @39301 has 218 MA's), (Start: 32 @39199 has 2 MA's), (44, 39082), (55, 39031), (64, 38968), (69, 38923), (71, 38914), (78, 38833), (87, 38776), (89, 38740), (91, 38710), (104, 38599),

Gene: AxiPup_59 Start: 39515, Stop: 38784, Start Num: 27

Candidate Starts for AxiPup_59:

(Start: 27 @39515 has 218 MA's), (Start: 32 @39413 has 2 MA's), (44, 39296), (55, 39245), (64, 39182), (69, 39137), (71, 39128), (78, 39047), (87, 38990), (89, 38954), (91, 38924), (104, 38813),

Gene: Baines_58 Start: 39300, Stop: 38569, Start Num: 27

Candidate Starts for Baines_58:

(Start: 27 @39300 has 218 MA's), (Start: 32 @39198 has 2 MA's), (44, 39081), (55, 39030), (64, 38967), (69, 38922), (71, 38913), (78, 38832), (87, 38775), (91, 38709), (104, 38598),

Gene: Balsa_57 Start: 39430, Stop: 38699, Start Num: 27

Candidate Starts for Balsa_57:

(Start: 27 @39430 has 218 MA's), (31, 39331), (Start: 32 @39328 has 2 MA's), (44, 39211), (55, 39160), (69, 39052), (71, 39043), (78, 38962), (87, 38905), (89, 38869), (91, 38839), (95, 38791), (104, 38728),

Gene: Bandik_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Bandik_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (91, 38957), (104, 38846),

Gene: BeagleBug_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for BeagleBug_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: BeautPeep30_59 Start: 39554, Stop: 38823, Start Num: 27

Candidate Starts for BeautPeep30_59:

(Start: 27 @39554 has 218 MA's), (Start: 32 @39452 has 2 MA's), (44, 39335), (55, 39284), (64, 39221), (69, 39176), (71, 39167), (78, 39086), (87, 39029), (91, 38963), (104, 38852),

Gene: BeeBee8_59 Start: 39604, Stop: 38873, Start Num: 27

Candidate Starts for BeeBee8_59:

(Start: 27 @39604 has 218 MA's), (31, 39505), (Start: 32 @39502 has 2 MA's), (44, 39385), (55, 39334), (69, 39226), (71, 39217), (78, 39136), (87, 39079), (89, 39043), (91, 39013), (95, 38965), (104, 38902),

Gene: Benjalauren_59 Start: 39307, Stop: 38576, Start Num: 27

Candidate Starts for Benjalauren_59:

(Start: 27 @39307 has 218 MA's), (Start: 32 @39205 has 2 MA's), (44, 39088), (55, 39037), (64, 38974), (69, 38929), (71, 38920), (78, 38839), (87, 38782), (89, 38746), (91, 38716), (104, 38605),

Gene: BigRedClifford_59 Start: 39542, Stop: 38811, Start Num: 27

Candidate Starts for BigRedClifford_59:

(Start: 27 @39542 has 218 MA's), (Start: 32 @39440 has 2 MA's), (44, 39323), (55, 39272), (64, 39209), (69, 39164), (71, 39155), (78, 39074), (87, 39017), (91, 38951), (104, 38840),

Gene: Blage_59 Start: 39542, Stop: 38811, Start Num: 27

Candidate Starts for Blage_59:

(Start: 27 @39542 has 218 MA's), (Start: 32 @39440 has 2 MA's), (44, 39323), (55, 39272), (64, 39209), (69, 39164), (71, 39155), (78, 39074), (87, 39017), (91, 38951), (104, 38840),

Gene: BonesMcCoy_59 Start: 39543, Stop: 38812, Start Num: 27

Candidate Starts for BonesMcCoy_59:

(Start: 27 @39543 has 218 MA's), (Start: 32 @39441 has 2 MA's), (44, 39324), (55, 39273), (64, 39210), (69, 39165), (71, 39156), (78, 39075), (87, 39018), (91, 38952), (104, 38841),

Gene: Bonino_58 Start: 39280, Stop: 38549, Start Num: 27

Candidate Starts for Bonino_58:

(Start: 27 @39280 has 218 MA's), (Start: 32 @39178 has 2 MA's), (44, 39061), (55, 39010), (64, 38947), (69, 38902), (71, 38893), (78, 38812), (87, 38755), (89, 38719), (91, 38689), (104, 38578),

Gene: BouleyBill_50 Start: 36149, Stop: 35412, Start Num: 27

Candidate Starts for BouleyBill_50:

(Start: 27 @36149 has 218 MA's), (Start: 32 @36038 has 2 MA's), (41, 35951), (44, 35921), (59, 35843), (64, 35810), (68, 35774), (78, 35675), (79, 35672), (86, 35621), (88, 35588), (90, 35564), (92, 35543),

Gene: BrazzalePHS_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for BrazzalePHS_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Busephilis_8 Start: 3691, Stop: 4431, Start Num: 27

Candidate Starts for Busephilis_8:

(Start: 27 @3691 has 218 MA's), (28, 3724), (Start: 32 @3793 has 2 MA's), (34, 3805), (35, 3820), (43, 3895), (44, 3910), (68, 4054), (71, 4072), (77, 4138), (81, 4174), (88, 4246), (90, 4270), (91, 4282), (93, 4297), (104, 4393),

Gene: Bustleton_51 Start: 36138, Stop: 35401, Start Num: 27

Candidate Starts for Bustleton_51:

(Start: 27 @36138 has 218 MA's), (Start: 32 @36027 has 2 MA's), (39, 35952), (41, 35940), (44, 35910), (59, 35832), (64, 35799), (68, 35763), (78, 35664), (79, 35661), (86, 35610), (88, 35577), (90, 35553), (92, 35532), (104, 35430),

Gene: Byron23_60 Start: 39551, Stop: 38820, Start Num: 27

Candidate Starts for Byron23_60:

(Start: 27 @39551 has 218 MA's), (Start: 32 @39449 has 2 MA's), (44, 39332), (55, 39281), (64, 39218), (69, 39173), (71, 39164), (78, 39083), (87, 39026), (91, 38960), (104, 38849),

Gene: Calix_58 Start: 39287, Stop: 38556, Start Num: 27

Candidate Starts for Calix_58:

(Start: 27 @39287 has 218 MA's), (Start: 32 @39185 has 2 MA's), (44, 39068), (55, 39017), (64, 38954), (69, 38909), (71, 38900), (78, 38819), (87, 38762), (89, 38726), (91, 38696), (104, 38585),

Gene: CarisSwetlik_58 Start: 39888, Stop: 39160, Start Num: 27

Candidate Starts for CarisSwetlik_58:

(Start: 27 @39888 has 218 MA's), (Start: 32 @39789 has 2 MA's), (35, 39762), (47, 39663), (55, 39621), (64, 39558), (69, 39513), (71, 39504), (78, 39423), (91, 39300),

Gene: Chako_58 Start: 39296, Stop: 38565, Start Num: 27

Candidate Starts for Chako_58:

(Start: 27 @39296 has 218 MA's), (Start: 32 @39194 has 2 MA's), (44, 39077), (55, 39026), (64, 38963), (69, 38918), (71, 38909), (78, 38828), (87, 38771), (91, 38705), (104, 38594),

Gene: Chamuel_58 Start: 39313, Stop: 38582, Start Num: 27

Candidate Starts for Chamuel_58:

(Start: 27 @39313 has 218 MA's), (Start: 32 @39211 has 2 MA's), (44, 39094), (55, 39043), (64, 38980), (69, 38935), (71, 38926), (78, 38845), (87, 38788), (89, 38752), (91, 38722), (104, 38611),

Gene: Cheeto1_55 Start: 37748, Stop: 37017, Start Num: 27

Candidate Starts for Cheeto1_55:

(22, 37787), (Start: 27 @37748 has 218 MA's), (30, 37667), (31, 37649), (Start: 32 @37646 has 2 MA's), (34, 37634), (44, 37529), (51, 37505), (55, 37478), (63, 37433), (64, 37415), (66, 37400), (78, 37280), (89, 37187), (91, 37157), (99, 37091), (104, 37046),

Gene: ChickenKing_53 Start: 37901, Stop: 37170, Start Num: 27

Candidate Starts for ChickenKing_53:

(22, 37940), (Start: 27 @37901 has 218 MA's), (30, 37820), (31, 37802), (Start: 32 @37799 has 2 MA's), (34, 37787), (44, 37682), (55, 37631), (63, 37586), (64, 37568), (66, 37553), (78, 37433), (89, 37340), (91, 37310), (99, 37244), (104, 37199),

Gene: ChikPic_56 Start: 37560, Stop: 36835, Start Num: 27

Candidate Starts for ChikPic_56:

(Start: 27 @37560 has 218 MA's), (Start: 32 @37458 has 2 MA's), (44, 37350), (64, 37233), (68, 37197), (70, 37185), (78, 37098), (87, 37041),

Gene: Christoph_58 Start: 39300, Stop: 38569, Start Num: 27

Candidate Starts for Christoph_58:

(Start: 27 @39300 has 218 MA's), (Start: 32 @39198 has 2 MA's), (44, 39081), (55, 39030), (64, 38967), (69, 38922), (71, 38913), (78, 38832), (87, 38775), (89, 38739), (91, 38709), (104, 38598),

Gene: Clancy_58 Start: 39300, Stop: 38569, Start Num: 27

Candidate Starts for Clancy_58:

(Start: 27 @39300 has 218 MA's), (Start: 32 @39198 has 2 MA's), (44, 39081), (55, 39030), (64, 38967), (69, 38922), (71, 38913), (78, 38832), (87, 38775), (91, 38709), (104, 38598),

Gene: ClearAsMud_7 Start: 3748, Stop: 4488, Start Num: 27

Candidate Starts for ClearAsMud_7:

(Start: 27 @3748 has 218 MA's), (28, 3781), (Start: 32 @3850 has 2 MA's), (34, 3862), (35, 3877), (43, 3952), (44, 3967), (68, 4111), (71, 4129), (77, 4195), (81, 4231), (90, 4327), (91, 4339), (104, 4450), (107, 4480),

Gene: ColaCorta_56 Start: 37751, Stop: 37026, Start Num: 27

Candidate Starts for ColaCorta_56:

(Start: 27 @37751 has 218 MA's), (Start: 32 @37649 has 2 MA's), (44, 37541), (60, 37454), (64, 37424), (68, 37388), (70, 37376), (78, 37289), (87, 37232),

Gene: Convict_59 Start: 39543, Stop: 38812, Start Num: 27

Candidate Starts for Convict_59:

(Start: 27 @39543 has 218 MA's), (Start: 32 @39441 has 2 MA's), (44, 39324), (55, 39273), (64, 39210), (69, 39165), (71, 39156), (78, 39075), (87, 39018), (91, 38952), (104, 38841),

Gene: CoraRita_58 Start: 39269, Stop: 38538, Start Num: 27

Candidate Starts for CoraRita_58:

(Start: 27 @39269 has 218 MA's), (Start: 32 @39167 has 2 MA's), (44, 39050), (55, 38999), (64, 38936), (69, 38891), (71, 38882), (78, 38801), (87, 38744), (91, 38678), (104, 38567),

Gene: Cranjis_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for Cranjjs_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: CrazyRich_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for CrazyRich_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Crisis_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for Crisis_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (88, 4034), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: Dave_59 Start: 39604, Stop: 38873, Start Num: 27

Candidate Starts for Dave_59:

(Start: 27 @39604 has 218 MA's), (Start: 32 @39502 has 2 MA's), (44, 39385), (55, 39334), (64, 39271), (69, 39226), (71, 39217), (78, 39136), (87, 39079), (91, 39013), (104, 38902),

Gene: DelaGarza_62 Start: 35949, Stop: 36692, Start Num: 27

Candidate Starts for DelaGarza_62:

(1, 35244), (2, 35247), (3, 35286), (5, 35598), (6, 35622), (7, 35661), (8, 35706), (9, 35730), (21, 35895), (Start: 27 @35949 has 218 MA's), (Start: 32 @36063 has 2 MA's), (39, 36138), (47, 36189), (53, 36222), (54, 36228), (64, 36288), (69, 36333), (71, 36342), (86, 36477), (88, 36510), (89, 36516), (91, 36546), (92, 36555), (101, 36639), (106, 36681),

Gene: Delphidian_58 Start: 39340, Stop: 38609, Start Num: 27

Candidate Starts for Delphidian_58:

(Start: 27 @39340 has 218 MA's), (Start: 32 @39238 has 2 MA's), (44, 39121), (55, 39070), (64, 39007), (69, 38962), (71, 38953), (78, 38872), (87, 38815), (91, 38749), (104, 38638),

Gene: Den3_59 Start: 39547, Stop: 38816, Start Num: 27

Candidate Starts for Den3_59:

(Start: 27 @39547 has 218 MA's), (Start: 32 @39445 has 2 MA's), (44, 39328), (55, 39277), (64, 39214), (69, 39169), (71, 39160), (78, 39079), (87, 39022), (91, 38956), (104, 38845),

Gene: Dothraki_59 Start: 39551, Stop: 38820, Start Num: 27

Candidate Starts for Dothraki_59:

(Start: 27 @39551 has 218 MA's), (Start: 32 @39449 has 2 MA's), (44, 39332), (55, 39281), (64, 39218), (69, 39173), (71, 39164), (78, 39083), (87, 39026), (91, 38960), (104, 38849),

Gene: Duocatuli_58 Start: 39296, Stop: 38565, Start Num: 27

Candidate Starts for Duocatuli_58:

(Start: 27 @39296 has 218 MA's), (Start: 32 @39194 has 2 MA's), (44, 39077), (55, 39026), (64, 38963), (69, 38918), (71, 38909), (78, 38828), (87, 38771), (91, 38705), (104, 38594),

Gene: EarickHC_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for EarickHC_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (77, 3926), (81, 3962), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: Eleri_56 Start: 37596, Stop: 36871, Start Num: 27

Candidate Starts for Eleri_56:

(Start: 27 @37596 has 218 MA's), (Start: 32 @37494 has 2 MA's), (44, 37386), (60, 37299), (64, 37269), (68, 37233), (70, 37221), (78, 37134), (87, 37077),

Gene: Endor_60 Start: 39867, Stop: 39136, Start Num: 27

Candidate Starts for Endor_60:

(Start: 27 @39867 has 218 MA's), (31, 39768), (Start: 32 @39765 has 2 MA's), (44, 39648), (55, 39597), (64, 39534), (69, 39489), (71, 39480), (78, 39399), (87, 39342), (89, 39306), (91, 39276), (104, 39165),

Gene: Erla_58 Start: 39284, Stop: 38553, Start Num: 27

Candidate Starts for Erla_58:

(Start: 27 @39284 has 218 MA's), (Start: 32 @39182 has 2 MA's), (44, 39065), (55, 39014), (64, 38951), (69, 38906), (71, 38897), (78, 38816), (87, 38759), (89, 38723), (91, 38693), (104, 38582),

Gene: Espinosa_58 Start: 39299, Stop: 38568, Start Num: 27

Candidate Starts for Espinosa_58:

(Start: 27 @39299 has 218 MA's), (Start: 32 @39197 has 2 MA's), (44, 39080), (55, 39029), (64, 38966), (69, 38921), (71, 38912), (78, 38831), (87, 38774), (89, 38738), (91, 38708), (104, 38597),

Gene: Etna_58 Start: 39477, Stop: 38746, Start Num: 27

Candidate Starts for Etna_58:

(Start: 27 @39477 has 218 MA's), (31, 39378), (Start: 32 @39375 has 2 MA's), (44, 39258), (55, 39207), (69, 39099), (71, 39090), (78, 39009), (87, 38952), (89, 38916), (91, 38886), (95, 38838), (104, 38775),

Gene: Etta_58 Start: 39288, Stop: 38557, Start Num: 27

Candidate Starts for Etta_58:

(Start: 27 @39288 has 218 MA's), (Start: 32 @39186 has 2 MA's), (44, 39069), (55, 39018), (64, 38955), (69, 38910), (71, 38901), (78, 38820), (87, 38763), (91, 38697), (104, 38586),

Gene: Exploradora_58 Start: 39249, Stop: 38518, Start Num: 27

Candidate Starts for Exploradora_58:

(Start: 27 @39249 has 218 MA's), (Start: 32 @39147 has 2 MA's), (44, 39030), (55, 38979), (64, 38916), (69, 38871), (71, 38862), (78, 38781), (87, 38724), (89, 38688), (91, 38658), (104, 38547),

Gene: FarmerDoug_58 Start: 39300, Stop: 38569, Start Num: 27

Candidate Starts for FarmerDoug_58:

(Start: 27 @39300 has 218 MA's), (Start: 32 @39198 has 2 MA's), (55, 39030), (69, 38922), (71, 38913), (78, 38832), (89, 38739), (91, 38709), (104, 38598),

Gene: Figueroism_59 Start: 39593, Stop: 38862, Start Num: 27

Candidate Starts for Figueroism_59:

(Start: 27 @39593 has 218 MA's), (Start: 32 @39491 has 2 MA's), (44, 39374), (55, 39323), (64, 39260), (69, 39215), (71, 39206), (78, 39125), (87, 39068), (91, 39002), (104, 38891),

Gene: Finny_57 Start: 37544, Stop: 36819, Start Num: 27

Candidate Starts for Finny_57:

(Start: 27 @37544 has 218 MA's), (Start: 32 @37442 has 2 MA's), (44, 37334), (60, 37247), (64, 37217), (68, 37181), (70, 37169), (87, 37025),

Gene: Fireman_5 Start: 2970, Stop: 3710, Start Num: 27

Candidate Starts for Fireman_5:

(14, 2892), (Start: 27 @2970 has 218 MA's), (28, 3003), (Start: 32 @3072 has 2 MA's), (34, 3084), (43, 3174), (44, 3189), (64, 3297), (68, 3333), (71, 3351), (77, 3417), (88, 3525), (91, 3561), (92, 3570), (104, 3672), (105, 3678),

Gene: GaeCeo_55 Start: 38134, Stop: 37403, Start Num: 27

Candidate Starts for GaeCeo_55:

(22, 38173), (Start: 27 @38134 has 218 MA's), (30, 38053), (31, 38035), (Start: 32 @38032 has 2 MA's), (34, 38020), (44, 37915), (55, 37864), (63, 37819), (64, 37801), (66, 37786), (78, 37666), (89, 37573), (91, 37543), (99, 37477), (104, 37432),

Gene: Ganandorf_7 Start: 3698, Stop: 4438, Start Num: 27

Candidate Starts for Ganandorf_7:

(Start: 27 @3698 has 218 MA's), (28, 3731), (Start: 32 @3800 has 2 MA's), (34, 3812), (35, 3827), (43, 3902), (44, 3917), (68, 4061), (71, 4079), (77, 4145), (81, 4181), (88, 4253), (90, 4277), (91, 4289), (93, 4304), (104, 4400),

Gene: GardenB_59 Start: 39672, Stop: 38938, Start Num: 27

Candidate Starts for GardenB_59:

(Start: 27 @39672 has 218 MA's), (Start: 32 @39570 has 2 MA's), (40, 39486), (44, 39453), (55, 39402), (69, 39291), (71, 39282), (78, 39201), (89, 39108), (91, 39078),

Gene: Garey24_59 Start: 39267, Stop: 38536, Start Num: 27

Candidate Starts for Garey24_59:

(Start: 27 @39267 has 218 MA's), (Start: 32 @39165 has 2 MA's), (44, 39048), (55, 38997), (64, 38934), (69, 38889), (71, 38880), (78, 38799), (87, 38742), (89, 38706), (91, 38676), (104, 38565),

Gene: Gargoyle_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Gargoyle_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (89, 38987), (91, 38957), (104, 38846),

Gene: Gelo_58 Start: 39294, Stop: 38563, Start Num: 27

Candidate Starts for Gelo_58:

(Start: 27 @39294 has 218 MA's), (Start: 32 @39192 has 2 MA's), (44, 39075), (55, 39024), (64, 38961), (69, 38916), (71, 38907), (78, 38826), (87, 38769), (89, 38733), (91, 38703), (104, 38592),

Gene: Germa_9 Start: 3706, Stop: 4446, Start Num: 27

Candidate Starts for Germa_9:

(Start: 27 @3706 has 218 MA's), (28, 3739), (Start: 32 @3808 has 2 MA's), (34, 3820), (35, 3835), (43, 3910), (44, 3925), (68, 4069), (71, 4087), (77, 4153), (81, 4189), (88, 4261), (90, 4285), (91, 4297), (104, 4408),

Gene: Gershwin_58 Start: 39301, Stop: 38570, Start Num: 27

Candidate Starts for Gershwin_58:

(Start: 27 @39301 has 218 MA's), (Start: 32 @39199 has 2 MA's), (44, 39082), (55, 39031), (64, 38968), (69, 38923), (71, 38914), (78, 38833), (87, 38776), (89, 38740), (91, 38710), (104, 38599),

Gene: Gina_5 Start: 2600, Stop: 3349, Start Num: 27

Candidate Starts for Gina_5:

(Start: 27 @2600 has 218 MA's), (Start: 32 @2714 has 2 MA's), (34, 2726), (38, 2765), (43, 2816), (44, 2831), (45, 2834), (51, 2855), (53, 2873), (64, 2939), (66, 2954), (68, 2975), (71, 2993), (73, 3026), (77,

3059), (81, 3095), (88, 3167), (91, 3203), (92, 3212), (98, 3263), (104, 3311), (105, 3317),

Gene: Gingerbug_61 Start: 36388, Stop: 37182, Start Num: 15

Candidate Starts for Gingerbug_61:

(Start: 15 @36388 has 1 MA's), (Start: 27 @36451 has 218 MA's), (Start: 32 @36553 has 2 MA's), (35, 36580), (47, 36679), (53, 36712), (64, 36778), (71, 36832), (87, 36970), (88, 37000), (91, 37036), (92, 37045), (94, 37060),

Gene: Glamour_55 Start: 37454, Stop: 36729, Start Num: 27

Candidate Starts for Glamour_55:

(Start: 27 @37454 has 218 MA's), (Start: 32 @37352 has 2 MA's), (44, 37244), (60, 37157), (64, 37127), (68, 37091), (70, 37079), (78, 36992), (87, 36935),

Gene: Glorp_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for Glorp_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: GoingMerry_59 Start: 39525, Stop: 38794, Start Num: 27

Candidate Starts for GoingMerry_59:

(Start: 27 @39525 has 218 MA's), (Start: 32 @39423 has 2 MA's), (44, 39306), (55, 39255), (64, 39192), (69, 39147), (71, 39138), (78, 39057), (87, 39000), (91, 38934), (104, 38823),

Gene: Golden_52 Start: 36611, Stop: 35883, Start Num: 27

Candidate Starts for Golden_52:

(Start: 27 @36611 has 218 MA's), (Start: 32 @36509 has 2 MA's), (41, 36422), (44, 36392), (59, 36314), (64, 36281), (68, 36245), (76, 36185), (78, 36146), (79, 36143), (86, 36092), (88, 36059), (90, 36035), (92, 36014), (104, 35912),

Gene: GoneGirl_60 Start: 39659, Stop: 38925, Start Num: 27

Candidate Starts for GoneGirl_60:

(Start: 27 @39659 has 218 MA's), (Start: 32 @39557 has 2 MA's), (40, 39473), (44, 39440), (55, 39389), (69, 39278), (71, 39269), (78, 39188), (89, 39095), (91, 39065),

Gene: Greys_59 Start: 39543, Stop: 38812, Start Num: 27

Candidate Starts for Greys_59:

(Start: 27 @39543 has 218 MA's), (Start: 32 @39441 has 2 MA's), (44, 39324), (55, 39273), (64, 39210), (69, 39165), (71, 39156), (78, 39075), (87, 39018), (91, 38952), (104, 38841),

Gene: Gubbabump_58 Start: 39238, Stop: 38507, Start Num: 27

Candidate Starts for Gubbabump_58:

(Start: 27 @39238 has 218 MA's), (Start: 32 @39136 has 2 MA's), (44, 39019), (55, 38968), (64, 38905), (69, 38860), (71, 38851), (78, 38770), (87, 38713), (89, 38677), (91, 38647), (104, 38536),

Gene: Guetzie_53 Start: 36703, Stop: 35975, Start Num: 27

Candidate Starts for Guetzie_53:

(Start: 27 @36703 has 218 MA's), (Start: 32 @36601 has 2 MA's), (41, 36514), (44, 36484), (59, 36406), (64, 36373), (68, 36337), (76, 36277), (78, 36238), (79, 36235), (86, 36184), (88, 36151), (90, 36127), (92, 36106),

Gene: HairyMan_51 Start: 37234, Stop: 36458, Start Num: 19

Candidate Starts for HairyMan_51:

(Start: 19 @37234 has 1 MA's), (Start: 27 @37192 has 218 MA's), (Start: 32 @37090 has 2 MA's), (44, 36973), (50, 36952), (51, 36949), (58, 36895), (78, 36724), (87, 36667), (89, 36631),

Gene: Hamlet_58 Start: 39523, Stop: 38792, Start Num: 27

Candidate Starts for Hamlet_58:

(Start: 27 @39523 has 218 MA's), (31, 39424), (Start: 32 @39421 has 2 MA's), (44, 39304), (55, 39253), (69, 39145), (71, 39136), (78, 39055), (87, 38998), (89, 38962), (91, 38932), (95, 38884), (104, 38821),

Gene: HanSolo_58 Start: 39248, Stop: 38517, Start Num: 27

Candidate Starts for HanSolo_58:

(Start: 27 @39248 has 218 MA's), (Start: 32 @39146 has 2 MA's), (44, 39029), (55, 38978), (64, 38915), (69, 38870), (71, 38861), (78, 38780), (87, 38723), (91, 38657), (104, 38546),

Gene: HankSprout_59 Start: 39167, Stop: 38436, Start Num: 27

Candidate Starts for HankSprout_59:

(Start: 27 @39167 has 218 MA's), (Start: 32 @39065 has 2 MA's), (44, 38948), (55, 38897), (64, 38834), (69, 38789), (71, 38780), (78, 38699), (87, 38642), (91, 38576), (104, 38465),

Gene: HavenFinLeoSun_60 Start: 39566, Stop: 38838, Start Num: 27

Candidate Starts for HavenFinLeoSun_60:

(13, 39647), (Start: 27 @39566 has 218 MA's), (Start: 32 @39467 has 2 MA's), (47, 39341), (55, 39299), (64, 39236), (69, 39191), (71, 39182), (78, 39101), (91, 38978), (99, 38912),

Gene: HerculesXL_52 Start: 35965, Stop: 35231, Start Num: 27

Candidate Starts for HerculesXL_52:

(Start: 27 @35965 has 218 MA's), (28, 35932), (Start: 32 @35863 has 2 MA's), (44, 35746), (49, 35728), (55, 35695), (63, 35650), (66, 35617), (78, 35494), (83, 35467), (87, 35437), (88, 35407), (90, 35383), (91, 35371),

Gene: Hermeonysus_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for Hermeonysus_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Honeyfin_8 Start: 3688, Stop: 4428, Start Num: 27

Candidate Starts for Honeyfin_8:

(Start: 27 @3688 has 218 MA's), (28, 3721), (Start: 32 @3790 has 2 MA's), (34, 3802), (35, 3817), (43, 3892), (44, 3907), (68, 4051), (71, 4069), (77, 4135), (81, 4171), (90, 4267), (91, 4279), (104, 4390), (107, 4420),

Gene: HungryHenry_58 Start: 39261, Stop: 38530, Start Num: 27

Candidate Starts for HungryHenry_58:

(Start: 27 @39261 has 218 MA's), (Start: 32 @39159 has 2 MA's), (44, 39042), (55, 38991), (64, 38928), (69, 38883), (71, 38874), (78, 38793), (87, 38736), (89, 38700), (91, 38670), (104, 38559),

Gene: Ilzat_58 Start: 39271, Stop: 38540, Start Num: 27

Candidate Starts for Ilzat_58:

(Start: 27 @39271 has 218 MA's), (Start: 32 @39169 has 2 MA's), (44, 39052), (55, 39001), (64, 38938), (69, 38893), (71, 38884), (78, 38803), (87, 38746), (91, 38680), (104, 38569),

Gene: Inventa_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Inventa_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (91, 38957), (104, 38846),

Gene: Ioannes_59 Start: 39625, Stop: 38894, Start Num: 27

Candidate Starts for Ioannes_59:

(Start: 27 @39625 has 218 MA's), (Start: 32 @39523 has 2 MA's), (44, 39406), (55, 39355), (64, 39292), (69, 39247), (71, 39238), (78, 39157), (87, 39100), (91, 39034), (104, 38923),

Gene: Ixel_54 Start: 37422, Stop: 36688, Start Num: 27

Candidate Starts for Ixel_54:

(Start: 27 @37422 has 218 MA's), (28, 37389), (31, 37323), (Start: 32 @37320 has 2 MA's), (50, 37182), (55, 37152), (63, 37104), (87, 36894), (89, 36858), (90, 36840), (91, 36828),

Gene: Janus167_58 Start: 39276, Stop: 38545, Start Num: 27

Candidate Starts for Janus167_58:

(Start: 27 @39276 has 218 MA's), (Start: 32 @39174 has 2 MA's), (44, 39057), (55, 39006), (64, 38943), (69, 38898), (71, 38889), (78, 38808), (87, 38751), (91, 38685), (104, 38574),

Gene: JasonD_60 Start: 39835, Stop: 39107, Start Num: 27

Candidate Starts for JasonD_60:

(Start: 27 @39835 has 218 MA's), (Start: 32 @39736 has 2 MA's), (47, 39610), (55, 39568), (64, 39505), (69, 39460), (71, 39451), (78, 39370), (91, 39247),

Gene: JasperRussell_58 Start: 39296, Stop: 38565, Start Num: 27

Candidate Starts for JasperRussell_58:

(Start: 27 @39296 has 218 MA's), (Start: 32 @39194 has 2 MA's), (44, 39077), (55, 39026), (64, 38963), (69, 38918), (71, 38909), (78, 38828), (87, 38771), (91, 38705), (104, 38594),

Gene: Jayden_6 Start: 3181, Stop: 3930, Start Num: 27

Candidate Starts for Jayden_6:

(11, 3067), (Start: 27 @3181 has 218 MA's), (Start: 32 @3295 has 2 MA's), (34, 3307), (43, 3397), (44, 3412), (53, 3454), (68, 3556), (71, 3574), (77, 3640), (81, 3676), (88, 3748), (91, 3784), (92, 3793), (104, 3892), (105, 3898),

Gene: Jefe_8 Start: 3682, Stop: 4422, Start Num: 27

Candidate Starts for Jefe_8:

(Start: 27 @3682 has 218 MA's), (28, 3715), (Start: 32 @3784 has 2 MA's), (34, 3796), (35, 3811), (43, 3886), (44, 3901), (68, 4045), (71, 4063), (77, 4129), (81, 4165), (88, 4237), (90, 4261), (91, 4273), (104, 4384),

Gene: Jemerald_53 Start: 37321, Stop: 36590, Start Num: 27

Candidate Starts for Jemerald_53:

(23, 37357), (24, 37348), (Start: 27 @37321 has 218 MA's), (30, 37240), (Start: 32 @37219 has 2 MA's), (34, 37207), (44, 37102), (51, 37078), (55, 37051), (58, 37027), (63, 37009), (64, 36991), (71, 36937), (83, 36829), (87, 36799), (91, 36733),

Gene: Jenos_60 Start: 40133, Stop: 39405, Start Num: 27

Candidate Starts for Jenos_60:

(Start: 27 @40133 has 218 MA's), (Start: 32 @40034 has 2 MA's), (35, 40007), (47, 39908), (55, 39866), (64, 39803), (69, 39758), (71, 39749), (78, 39668), (91, 39545),

Gene: Jerbirus_60 Start: 39291, Stop: 38560, Start Num: 27

Candidate Starts for Jerbirus_60:

(Start: 27 @39291 has 218 MA's), (Start: 32 @39189 has 2 MA's), (44, 39072), (55, 39021), (64, 38958), (69, 38913), (71, 38904), (78, 38823), (87, 38766), (89, 38730), (91, 38700), (104, 38589),

Gene: JeriBeth_58 Start: 39179, Stop: 38448, Start Num: 27

Candidate Starts for JeriBeth_58:

(Start: 27 @39179 has 218 MA's), (Start: 32 @39077 has 2 MA's), (44, 38960), (55, 38909), (64, 38846), (69, 38801), (71, 38792), (78, 38711), (87, 38654), (91, 38588), (104, 38477),

Gene: Jingles_52 Start: 36236, Stop: 35499, Start Num: 27

Candidate Starts for Jingles_52:

(Start: 27 @36236 has 218 MA's), (Start: 32 @36125 has 2 MA's), (39, 36050), (41, 36038), (44, 36008), (59, 35930), (64, 35897), (68, 35861), (78, 35762), (79, 35759), (86, 35708), (88, 35675), (90, 35651), (92, 35630), (104, 35528),

Gene: Jollipop_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for Jollipop_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Juanyo_52 Start: 36366, Stop: 35638, Start Num: 27

Candidate Starts for Juanyo_52:

(Start: 27 @36366 has 218 MA's), (Start: 32 @36264 has 2 MA's), (34, 36252), (39, 36189), (48, 36132), (50, 36126), (55, 36096), (62, 36057), (64, 36036), (75, 35946), (92, 35769), (96, 35718), (100, 35706),

Gene: Juicer_53 Start: 37321, Stop: 36590, Start Num: 27

Candidate Starts for Juicer_53:

(23, 37357), (24, 37348), (Start: 27 @37321 has 218 MA's), (30, 37240), (Start: 32 @37219 has 2 MA's), (34, 37207), (44, 37102), (51, 37078), (55, 37051), (58, 37027), (63, 37009), (64, 36991), (71, 36937), (83, 36829), (87, 36799), (91, 36733),

Gene: KaiHaiDragon_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for KaiHaiDragon_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: Kale_58 Start: 39303, Stop: 38572, Start Num: 27

Candidate Starts for Kale_58:

(Start: 27 @39303 has 218 MA's), (Start: 32 @39201 has 2 MA's), (44, 39084), (55, 39033), (64, 38970), (69, 38925), (71, 38916), (78, 38835), (87, 38778), (89, 38742), (91, 38712), (104, 38601),

Gene: KannH_58 Start: 39296, Stop: 38565, Start Num: 27

Candidate Starts for KannH_58:

(Start: 27 @39296 has 218 MA's), (Start: 32 @39194 has 2 MA's), (44, 39077), (55, 39026), (64, 38963), (69, 38918), (71, 38909), (78, 38828), (87, 38771), (91, 38705), (104, 38594),

Gene: Kauala_50 Start: 36328, Stop: 35600, Start Num: 27

Candidate Starts for Kauala_50:

(Start: 27 @36328 has 218 MA's), (Start: 32 @36226 has 2 MA's), (39, 36151), (41, 36139), (44, 36109), (59, 36031), (64, 35998), (68, 35962), (71, 35944), (72, 35923), (79, 35860), (88, 35776), (90,

35752), (92, 35731), (104, 35629),

Gene: Kavo_51 Start: 36011, Stop: 35277, Start Num: 27

Candidate Starts for Kavo_51:

(Start: 27 @36011 has 218 MA's), (28, 35978), (Start: 32 @35909 has 2 MA's), (44, 35792), (49, 35774), (55, 35741), (63, 35696), (66, 35663), (78, 35540), (83, 35513), (87, 35483), (90, 35429), (91, 35417),

Gene: KellyGreen_60 Start: 39285, Stop: 38554, Start Num: 27

Candidate Starts for KellyGreen_60:

(Start: 27 @39285 has 218 MA's), (Start: 32 @39183 has 2 MA's), (44, 39066), (55, 39015), (64, 38952), (69, 38907), (71, 38898), (78, 38817), (87, 38760), (89, 38724), (91, 38694), (104, 38583),

Gene: KingJulien_57 Start: 39318, Stop: 38587, Start Num: 27

Candidate Starts for KingJulien_57:

(Start: 27 @39318 has 218 MA's), (31, 39219), (Start: 32 @39216 has 2 MA's), (44, 39099), (55, 39048), (69, 38940), (71, 38931), (78, 38850), (87, 38793), (89, 38757), (91, 38727), (95, 38679), (104, 38616),

Gene: Klimt_59 Start: 39319, Stop: 38588, Start Num: 27

Candidate Starts for Klimt_59:

(Start: 27 @39319 has 218 MA's), (Start: 32 @39217 has 2 MA's), (44, 39100), (55, 39049), (64, 38986), (69, 38941), (71, 38932), (78, 38851), (87, 38794), (89, 38758), (91, 38728), (104, 38617),

Gene: Knox_59 Start: 39543, Stop: 38812, Start Num: 27

Candidate Starts for Knox_59:

(Start: 27 @39543 has 218 MA's), (Start: 32 @39441 has 2 MA's), (44, 39324), (55, 39273), (64, 39210), (69, 39165), (71, 39156), (78, 39075), (87, 39018), (91, 38952), (104, 38841),

Gene: Koji_50 Start: 36330, Stop: 35593, Start Num: 27

Candidate Starts for Koji_50:

(Start: 27 @36330 has 218 MA's), (Start: 32 @36219 has 2 MA's), (39, 36144), (41, 36132), (44, 36102), (59, 36024), (64, 35991), (68, 35955), (78, 35856), (79, 35853), (86, 35802), (88, 35769), (90, 35745), (92, 35724), (104, 35622),

Gene: Kouch_59 Start: 39249, Stop: 38518, Start Num: 27

Candidate Starts for Kouch_59:

(Start: 27 @39249 has 218 MA's), (Start: 32 @39147 has 2 MA's), (44, 39030), (55, 38979), (64, 38916), (69, 38871), (71, 38862), (78, 38781), (87, 38724), (89, 38688), (91, 38658), (104, 38547),

Gene: Kowalski_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for Kowalski_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Kurt1_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Kurt1_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (91, 38957), (104, 38846),

Gene: Leafus_58 Start: 39580, Stop: 38849, Start Num: 27

Candidate Starts for Leafus_58:

(Start: 27 @39580 has 218 MA's), (31, 39481), (Start: 32 @39478 has 2 MA's), (44, 39361), (55, 39310), (69, 39202), (71, 39193), (78, 39112), (87, 39055), (89, 39019), (91, 38989), (95, 38941), (104, 38878),

Gene: Lesiram_63 Start: 36202, Stop: 36945, Start Num: 27

Candidate Starts for Lesiram_63:

(1, 35497), (2, 35500), (3, 35539), (5, 35851), (6, 35875), (7, 35914), (8, 35959), (9, 35983), (21, 36148), (Start: 27 @36202 has 218 MA's), (28, 36247), (Start: 32 @36316 has 2 MA's), (39, 36391), (47, 36442), (53, 36475), (54, 36481), (64, 36541), (69, 36586), (71, 36595), (86, 36730), (88, 36763), (89, 36769), (91, 36799), (92, 36808), (101, 36892), (106, 36934),

Gene: LittleFortune_8 Start: 3688, Stop: 4428, Start Num: 27

Candidate Starts for LittleFortune_8:

(Start: 27 @3688 has 218 MA's), (28, 3721), (Start: 32 @3790 has 2 MA's), (34, 3802), (35, 3817), (43, 3892), (44, 3907), (68, 4051), (71, 4069), (77, 4135), (81, 4171), (88, 4243), (90, 4267), (91, 4279), (104, 4390),

Gene: Lovelyunicorn_59 Start: 39543, Stop: 38812, Start Num: 27

Candidate Starts for Lovelyunicorn_59:

(Start: 27 @39543 has 218 MA's), (Start: 32 @39441 has 2 MA's), (44, 39324), (55, 39273), (64, 39210), (69, 39165), (71, 39156), (78, 39075), (87, 39018), (91, 38952), (104, 38841),

Gene: Lucky3_52 Start: 36611, Stop: 35883, Start Num: 27

Candidate Starts for Lucky3_52:

(Start: 27 @36611 has 218 MA's), (Start: 32 @36509 has 2 MA's), (41, 36422), (44, 36392), (59, 36314), (64, 36281), (68, 36245), (76, 36185), (78, 36146), (79, 36143), (86, 36092), (88, 36059), (90, 36035), (92, 36014), (104, 35912),

Gene: Lucretia_8 Start: 3691, Stop: 4431, Start Num: 27

Candidate Starts for Lucretia_8:

(Start: 27 @3691 has 218 MA's), (28, 3724), (Start: 32 @3793 has 2 MA's), (34, 3805), (35, 3820), (43, 3895), (44, 3910), (68, 4054), (71, 4072), (77, 4138), (81, 4174), (88, 4246), (90, 4270), (91, 4282), (93, 4297), (104, 4393),

Gene: Ludgate_59 Start: 39544, Stop: 38813, Start Num: 27

Candidate Starts for Ludgate_59:

(Start: 27 @39544 has 218 MA's), (Start: 32 @39442 has 2 MA's), (44, 39325), (55, 39274), (64, 39211), (69, 39166), (71, 39157), (78, 39076), (87, 39019), (89, 38983), (91, 38953), (104, 38842),

Gene: MCubed_56 Start: 37611, Stop: 36886, Start Num: 27

Candidate Starts for MCubed_56:

(Start: 27 @37611 has 218 MA's), (Start: 32 @37509 has 2 MA's), (44, 37401), (60, 37314), (64, 37284), (68, 37248), (70, 37236), (78, 37149), (87, 37092),

Gene: MaeLinda_59 Start: 39555, Stop: 38824, Start Num: 27

Candidate Starts for MaeLinda_59:

(Start: 27 @39555 has 218 MA's), (Start: 32 @39453 has 2 MA's), (44, 39336), (55, 39285), (64, 39222), (69, 39177), (71, 39168), (78, 39087), (87, 39030), (91, 38964), (104, 38853),

Gene: ManRay_58 Start: 39301, Stop: 38570, Start Num: 27

Candidate Starts for ManRay_58:

(Start: 27 @39301 has 218 MA's), (Start: 32 @39199 has 2 MA's), (44, 39082), (55, 39031), (64, 38968), (69, 38923), (71, 38914), (78, 38833), (87, 38776), (89, 38740), (91, 38710), (104, 38599),

Gene: Martin_60 Start: 39557, Stop: 38826, Start Num: 27

Candidate Starts for Martin_60:

(Start: 27 @39557 has 218 MA's), (Start: 32 @39455 has 2 MA's), (44, 39338), (55, 39287), (64, 39224), (69, 39179), (71, 39170), (78, 39089), (87, 39032), (91, 38966), (104, 38855),

Gene: McGalleon_59 Start: 40271, Stop: 39543, Start Num: 27

Candidate Starts for McGalleon_59:

(Start: 27 @40271 has 218 MA's), (Start: 32 @40172 has 2 MA's), (35, 40145), (47, 40046), (55, 40004), (64, 39941), (69, 39896), (71, 39887), (78, 39806), (91, 39683),

Gene: Merida02_60 Start: 39347, Stop: 38616, Start Num: 27

Candidate Starts for Merida02_60:

(Start: 27 @39347 has 218 MA's), (Start: 32 @39245 has 2 MA's), (44, 39128), (55, 39077), (64, 39014), (69, 38969), (71, 38960), (78, 38879), (87, 38822), (91, 38756), (104, 38645),

Gene: Merry_ Start: 3722, Stop: 4393, Start Num: 32

Candidate Starts for Merry_:

(Start: 27 @3620 has 218 MA's), (28, 3653), (Start: 32 @3722 has 2 MA's), (45, 3842), (46, 3845), (47, 3848), (56, 3923), (68, 4016), (71, 4034), (86, 4172), (88, 4205), (90, 4229), (92, 4250), (104, 4352),

Gene: Metamorphoo_5 Start: 2863, Stop: 3603, Start Num: 27

Candidate Starts for Metamorphoo_5:

(14, 2785), (Start: 27 @2863 has 218 MA's), (28, 2896), (Start: 32 @2965 has 2 MA's), (34, 2977), (43, 3067), (44, 3082), (64, 3190), (68, 3226), (77, 3310), (81, 3346), (86, 3385), (88, 3418), (91, 3454), (104, 3565), (105, 3571),

Gene: MillyPhilly_59 Start: 39545, Stop: 38814, Start Num: 27

Candidate Starts for MillyPhilly_59:

(Start: 27 @39545 has 218 MA's), (Start: 32 @39443 has 2 MA's), (44, 39326), (55, 39275), (64, 39212), (69, 39167), (71, 39158), (78, 39077), (87, 39020), (91, 38954), (104, 38843),

Gene: MiniVolent_51 Start: 36320, Stop: 35592, Start Num: 27

Candidate Starts for MiniVolent_51:

(Start: 27 @36320 has 218 MA's), (Start: 32 @36218 has 2 MA's), (34, 36206), (39, 36143), (48, 36086), (50, 36080), (55, 36050), (62, 36011), (64, 35990), (75, 35900), (92, 35723), (96, 35672), (100, 35660),

Gene: MonChoix_57 Start: 39226, Stop: 38495, Start Num: 27

Candidate Starts for MonChoix_57:

(Start: 27 @39226 has 218 MA's), (Start: 32 @39124 has 2 MA's), (44, 39007), (55, 38956), (69, 38848), (71, 38839), (91, 38635), (104, 38524),

Gene: MrWorldwide_59 Start: 39555, Stop: 38824, Start Num: 27

Candidate Starts for MrWorldwide_59:

(Start: 27 @39555 has 218 MA's), (Start: 32 @39453 has 2 MA's), (44, 39336), (55, 39285), (64, 39222), (69, 39177), (71, 39168), (78, 39087), (87, 39030), (91, 38964), (104, 38853),

Gene: Mufasa8_99 Start: 57992, Stop: 57228, Start Num: 27

Candidate Starts for Mufasa8_99:

(4, 58640), (10, 58187), (Start: 27 @57992 has 218 MA's), (Start: 32 @57881 has 2 MA's), (37, 57845), (41, 57794), (61, 57680), (63, 57668), (64, 57650), (65, 57641), (76, 57554), (78, 57515), (85, 57470), (102, 57290), (104, 57275), (108, 57236),

Gene: Nagem_59 Start: 39591, Stop: 38860, Start Num: 27

Candidate Starts for Nagem_59:

(Start: 27 @39591 has 218 MA's), (Start: 32 @39489 has 2 MA's), (44, 39372), (55, 39321), (64, 39258), (69, 39213), (71, 39204), (78, 39123), (87, 39066), (89, 39030), (91, 39000), (104, 38889),

Gene: Nattles_58 Start: 39288, Stop: 38557, Start Num: 27

Candidate Starts for Nattles_58:

(Start: 27 @39288 has 218 MA's), (Start: 32 @39186 has 2 MA's), (44, 39069), (55, 39018), (64, 38955), (69, 38910), (71, 38901), (78, 38820), (87, 38763), (89, 38727), (91, 38697), (104, 38586),

Gene: NickSell_59 Start: 39558, Stop: 38827, Start Num: 27

Candidate Starts for NickSell_59:

(Start: 27 @39558 has 218 MA's), (Start: 32 @39456 has 2 MA's), (44, 39339), (55, 39288), (64, 39225), (69, 39180), (71, 39171), (78, 39090), (87, 39033), (91, 38967), (104, 38856),

Gene: NoodlelyBoi_7 Start: 3482, Stop: 4222, Start Num: 27

Candidate Starts for NoodlelyBoi_7:

(Start: 27 @3482 has 218 MA's), (28, 3515), (Start: 32 @3584 has 2 MA's), (34, 3596), (35, 3611), (43, 3686), (44, 3701), (68, 3845), (71, 3863), (77, 3929), (81, 3965), (88, 4037), (90, 4061), (91, 4073), (93, 4088), (104, 4184),

Gene: Oats_58 Start: 39301, Stop: 38570, Start Num: 27

Candidate Starts for Oats_58:

(Start: 27 @39301 has 218 MA's), (Start: 32 @39199 has 2 MA's), (44, 39082), (55, 39031), (64, 38968), (69, 38923), (71, 38914), (78, 38833), (87, 38776), (89, 38740), (91, 38710), (104, 38599),

Gene: OldNelly_59 Start: 39344, Stop: 38613, Start Num: 27

Candidate Starts for OldNelly_59:

(Start: 27 @39344 has 218 MA's), (Start: 32 @39242 has 2 MA's), (44, 39125), (55, 39074), (64, 39011), (69, 38966), (71, 38957), (78, 38876), (87, 38819), (91, 38753), (104, 38642),

Gene: Onika_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for Onika_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Orpington_56 Start: 37469, Stop: 36744, Start Num: 27

Candidate Starts for Orpington_56:

(Start: 27 @37469 has 218 MA's), (Start: 32 @37367 has 2 MA's), (44, 37259), (60, 37172), (64, 37142), (68, 37106), (70, 37094), (78, 37007), (87, 36950),

Gene: Oxtobor96_60 Start: 39543, Stop: 38812, Start Num: 27

Candidate Starts for Oxtobor96_60:

(Start: 27 @39543 has 218 MA's), (Start: 32 @39441 has 2 MA's), (44, 39324), (55, 39273), (64, 39210), (69, 39165), (71, 39156), (78, 39075), (87, 39018), (91, 38952), (104, 38841),

Gene: PSirce_56 Start: 37750, Stop: 37025, Start Num: 27

Candidate Starts for PSirce_56:

(20, 37798), (Start: 27 @37750 has 218 MA's), (Start: 32 @37648 has 2 MA's), (44, 37540), (60, 37453), (64, 37423), (68, 37387), (70, 37375), (78, 37288), (87, 37231),

Gene: Papafritta_58 Start: 39306, Stop: 38575, Start Num: 27

Candidate Starts for Papafritta_58:

(Start: 27 @39306 has 218 MA's), (Start: 32 @39204 has 2 MA's), (44, 39087), (55, 39036), (64, 38973), (69, 38928), (71, 38919), (78, 38838), (87, 38781), (91, 38715), (104, 38604),

Gene: ParleG_59 Start: 39555, Stop: 38824, Start Num: 27

Candidate Starts for ParleG_59:

(Start: 27 @39555 has 218 MA's), (Start: 32 @39453 has 2 MA's), (44, 39336), (55, 39285), (64, 39222), (69, 39177), (71, 39168), (78, 39087), (87, 39030), (91, 38964), (104, 38853),

Gene: Paschalis_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for Paschalis_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (88, 4034), (90, 4058), (91, 4070), (104, 4181),

Gene: Peep_59 Start: 39601, Stop: 38870, Start Num: 27

Candidate Starts for Peep_59:

(Start: 27 @39601 has 218 MA's), (Start: 32 @39499 has 2 MA's), (44, 39382), (55, 39331), (64, 39268), (69, 39223), (71, 39214), (78, 39133), (87, 39076), (91, 39010), (104, 38899),

Gene: Penta_51 Start: 36019, Stop: 35285, Start Num: 27

Candidate Starts for Penta_51:

(Start: 27 @36019 has 218 MA's), (28, 35986), (Start: 32 @35917 has 2 MA's), (44, 35800), (47, 35791), (49, 35782), (55, 35749), (63, 35704), (66, 35671), (78, 35548), (87, 35491), (88, 35461), (90, 35437), (91, 35425),

Gene: Peppino_58 Start: 39500, Stop: 38769, Start Num: 27

Candidate Starts for Peppino_58:

(Start: 27 @39500 has 218 MA's), (31, 39401), (Start: 32 @39398 has 2 MA's), (44, 39281), (55, 39230), (69, 39122), (71, 39113), (78, 39032), (87, 38975), (89, 38939), (91, 38909), (95, 38861), (104, 38798),

Gene: Phanita_57 Start: 37523, Stop: 36798, Start Num: 27

Candidate Starts for Phanita_57:

(Start: 27 @37523 has 218 MA's), (Start: 32 @37421 has 2 MA's), (42, 37340), (44, 37313), (60, 37226), (64, 37196), (68, 37160), (70, 37148), (78, 37061), (87, 37004),

Gene: PhedwardCullen_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for PhedwardCullen_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (88, 4034), (90, 4058), (91, 4070), (93, 4085), (104, 4181),

Gene: Pherbot_51 Start: 36125, Stop: 35388, Start Num: 27

Candidate Starts for Pherbot_51:

(Start: 27 @36125 has 218 MA's), (Start: 32 @36014 has 2 MA's), (39, 35939), (41, 35927), (44, 35897), (59, 35819), (64, 35786), (68, 35750), (78, 35651), (79, 35648), (86, 35597), (88, 35564), (90, 35540), (92, 35519), (104, 35417),

Gene: Pherferi_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Pherferi_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (91, 38957), (104, 38846),

Gene: Phiderman_59 Start: 39545, Stop: 38814, Start Num: 27

Candidate Starts for Phiderman_59:

(Start: 27 @39545 has 218 MA's), (Start: 32 @39443 has 2 MA's), (44, 39326), (55, 39275), (64, 39212), (69, 39167), (71, 39158), (78, 39077), (87, 39020), (91, 38954), (104, 38843),

Gene: PhillyPhantom_58 Start: 39411, Stop: 38680, Start Num: 27

Candidate Starts for PhillyPhantom_58:

(Start: 27 @39411 has 218 MA's), (31, 39312), (Start: 32 @39309 has 2 MA's), (44, 39192), (55, 39141), (69, 39033), (71, 39024), (78, 38943), (87, 38886), (89, 38850), (91, 38820), (95, 38772), (104, 38709),

Gene: Phireproof_59 Start: 39554, Stop: 38823, Start Num: 27

Candidate Starts for Phireproof_59:

(Start: 27 @39554 has 218 MA's), (Start: 32 @39452 has 2 MA's), (44, 39335), (55, 39284), (64, 39221), (69, 39176), (71, 39167), (78, 39086), (87, 39029), (91, 38963), (104, 38852),

Gene: Phorgeous_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for Phorgeous_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (88, 4034), (90, 4058), (91, 4070), (104, 4181),

Gene: Phrancesco_8 Start: 3697, Stop: 4437, Start Num: 27

Candidate Starts for Phrancesco_8:

(Start: 27 @3697 has 218 MA's), (28, 3730), (Start: 32 @3799 has 2 MA's), (34, 3811), (35, 3826), (43, 3901), (44, 3916), (68, 4060), (71, 4078), (77, 4144), (81, 4180), (90, 4276), (91, 4288), (104, 4399), (107, 4429),

Gene: PhredFlintston_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for PhredFlintston_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (91, 38957), (104, 38846),

Gene: Phriends_58 Start: 39348, Stop: 38617, Start Num: 27

Candidate Starts for Phriends_58:

(Start: 27 @39348 has 218 MA's), (Start: 32 @39246 has 2 MA's), (44, 39129), (55, 39078), (64, 39015), (69, 38970), (71, 38961), (78, 38880), (87, 38823), (91, 38757), (104, 38646),

Gene: PierreOrion_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for PierreOrion_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (88, 4034), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: PiperSansNom_8 Start: 3783, Stop: 4523, Start Num: 27

Candidate Starts for PiperSansNom_8:

(Start: 27 @3783 has 218 MA's), (28, 3816), (Start: 32 @3885 has 2 MA's), (34, 3897), (35, 3912), (43, 3987), (44, 4002), (68, 4146), (71, 4164), (77, 4230), (81, 4266), (88, 4338), (90, 4362), (91, 4374), (104, 4485),

Gene: Piperis_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for Piperis_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: Pocket_58 Start: 39328, Stop: 38597, Start Num: 27

Candidate Starts for Pocket_58:

(Start: 27 @39328 has 218 MA's), (Start: 32 @39226 has 2 MA's), (44, 39109), (55, 39058), (64, 38995), (69, 38950), (71, 38941), (78, 38860), (87, 38803), (89, 38767), (91, 38737), (104, 38626),

Gene: PorkBelly_35 Start: 27690, Stop: 26929, Start Num: 25

Candidate Starts for PorkBelly_35:

(12, 27765), (17, 27732), (18, 27729), (25, 27690), (29, 27633), (31, 27567), (Start: 32 @27564 has 2 MA's), (33, 27561), (36, 27534), (52, 27417), (54, 27399), (57, 27375), (65, 27330), (67, 27321), (76, 27243), (80, 27192), (82, 27183), (97, 27012), (103, 26973),

Gene: PrincePhergus_51 Start: 36141, Stop: 35404, Start Num: 27

Candidate Starts for PrincePhergus_51:

(Start: 27 @36141 has 218 MA's), (Start: 32 @36030 has 2 MA's), (39, 35955), (41, 35943), (44, 35913), (59, 35835), (64, 35802), (68, 35766), (78, 35667), (79, 35664), (86, 35613), (88, 35580), (90, 35556), (92, 35535), (104, 35433),

Gene: Pulchra_8 Start: 3709, Stop: 4449, Start Num: 27

Candidate Starts for Pulchra_8:

(Start: 27 @3709 has 218 MA's), (28, 3742), (Start: 32 @3811 has 2 MA's), (34, 3823), (35, 3838), (43, 3913), (44, 3928), (68, 4072), (71, 4090), (77, 4156), (81, 4192), (90, 4288), (91, 4300), (104, 4411), (107, 4441),

Gene: PuppyEggo_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for PuppyEggo_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (89, 38987), (91, 38957), (104, 38846),

Gene: Quhwah_8 Start: 3691, Stop: 4431, Start Num: 27

Candidate Starts for Quhwah_8:

(Start: 27 @3691 has 218 MA's), (28, 3724), (Start: 32 @3793 has 2 MA's), (34, 3805), (35, 3820), (43, 3895), (44, 3910), (68, 4054), (71, 4072), (77, 4138), (81, 4174), (90, 4270), (91, 4282), (104, 4393), (107, 4423),

Gene: Raccoon_58 Start: 39471, Stop: 38740, Start Num: 27

Candidate Starts for Raccoon_58:

(Start: 27 @39471 has 218 MA's), (31, 39372), (Start: 32 @39369 has 2 MA's), (44, 39252), (55, 39201), (69, 39093), (71, 39084), (78, 39003), (87, 38946), (89, 38910), (91, 38880), (95, 38832), (104, 38769),

Gene: Ramiel05_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for Ramiel05_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Rapheph_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Rapheph_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (91, 38957), (104, 38846),

Gene: Raptor_59 Start: 39546, Stop: 38815, Start Num: 27

Candidate Starts for Raptor_59:

(Start: 27 @39546 has 218 MA's), (Start: 32 @39444 has 2 MA's), (44, 39327), (55, 39276), (64, 39213), (69, 39168), (71, 39159), (78, 39078), (87, 39021), (91, 38955), (104, 38844),

Gene: Redfield_58 Start: 39510, Stop: 38779, Start Num: 27

Candidate Starts for Redfield_58:

(Start: 27 @39510 has 218 MA's), (31, 39411), (Start: 32 @39408 has 2 MA's), (44, 39291), (55, 39240), (69, 39132), (71, 39123), (78, 39042), (87, 38985), (89, 38949), (91, 38919), (95, 38871), (104, 38808),

Gene: RenegadeRaider_53 Start: 36035, Stop: 35298, Start Num: 27

Candidate Starts for RenegadeRaider_53:

(Start: 27 @36035 has 218 MA's), (Start: 32 @35924 has 2 MA's), (39, 35849), (41, 35837), (44, 35807), (59, 35729), (64, 35696), (68, 35660), (78, 35561), (79, 35558), (86, 35507), (88, 35474), (90, 35450), (92, 35429), (104, 35327),

Gene: Renzie_59 Start: 39604, Stop: 38873, Start Num: 27

Candidate Starts for Renzie_59:

(Start: 27 @39604 has 218 MA's), (Start: 32 @39502 has 2 MA's), (44, 39385), (55, 39334), (64, 39271), (69, 39226), (71, 39217), (78, 39136), (87, 39079), (91, 39013), (104, 38902),

Gene: Riyhil_59 Start: 39558, Stop: 38827, Start Num: 27

Candidate Starts for Riyhil_59:

(Start: 27 @39558 has 218 MA's), (Start: 32 @39456 has 2 MA's), (44, 39339), (55, 39288), (64, 39225), (69, 39180), (71, 39171), (78, 39090), (87, 39033), (91, 38967), (104, 38856),

Gene: Robinson_59 Start: 39620, Stop: 38889, Start Num: 27

Candidate Starts for Robinson_59:

(Start: 27 @39620 has 218 MA's), (Start: 32 @39518 has 2 MA's), (44, 39401), (55, 39350), (64, 39287), (69, 39242), (71, 39233), (78, 39152), (87, 39095), (91, 39029), (104, 38918),

Gene: RobsFeet_6 Start: 2970, Stop: 3710, Start Num: 27

Candidate Starts for RobsFeet_6:

(14, 2892), (Start: 27 @2970 has 218 MA's), (28, 3003), (Start: 32 @3072 has 2 MA's), (34, 3084), (43, 3174), (44, 3189), (68, 3333), (71, 3351), (77, 3417), (81, 3453), (88, 3525), (90, 3549), (91, 3561), (93, 3576), (104, 3672),

Gene: Rockwell_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for Rockwell_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Rog141_58 Start: 39291, Stop: 38560, Start Num: 27

Candidate Starts for Rog141_58:

(Start: 27 @39291 has 218 MA's), (Start: 32 @39189 has 2 MA's), (44, 39072), (55, 39021), (64, 38958), (69, 38913), (71, 38904), (78, 38823), (87, 38766), (89, 38730), (91, 38700), (104, 38589),

Gene: RosieMae_58 Start: 39352, Stop: 38621, Start Num: 27

Candidate Starts for RosieMae_58:

(Start: 27 @39352 has 218 MA's), (Start: 32 @39250 has 2 MA's), (44, 39133), (55, 39082), (64, 39019), (69, 38974), (71, 38965), (78, 38884), (87, 38827), (89, 38791), (91, 38761), (104, 38650),

Gene: SJay_59 Start: 39592, Stop: 38861, Start Num: 27

Candidate Starts for SJay_59:

(Start: 27 @39592 has 218 MA's), (Start: 32 @39490 has 2 MA's), (44, 39373), (55, 39322), (64, 39259), (69, 39214), (71, 39205), (78, 39124), (87, 39067), (89, 39031), (91, 39001), (104, 38890),

Gene: Sansa_54 Start: 37536, Stop: 36811, Start Num: 27

Candidate Starts for Sansa_54:

(Start: 27 @37536 has 218 MA's), (Start: 32 @37434 has 2 MA's), (44, 37326), (64, 37209), (68, 37173), (70, 37161), (78, 37074), (87, 37017),

Gene: Saratos_56 Start: 37580, Stop: 36855, Start Num: 27

Candidate Starts for Saratos_56:

(Start: 27 @37580 has 218 MA's), (Start: 32 @37478 has 2 MA's), (44, 37370), (60, 37283), (64, 37253), (68, 37217), (70, 37205), (78, 37118), (87, 37061),

Gene: Savannah_7 Start: 3494, Stop: 4234, Start Num: 27

Candidate Starts for Savannah_7:

(Start: 27 @3494 has 218 MA's), (28, 3527), (Start: 32 @3596 has 2 MA's), (34, 3608), (35, 3623), (43, 3698), (44, 3713), (68, 3857), (71, 3875), (77, 3941), (81, 3977), (88, 4049), (90, 4073), (91, 4085), (104, 4196),

Gene: Schimmels22_51 Start: 36265, Stop: 35531, Start Num: 27

Candidate Starts for Schimmels22_51:

(Start: 27 @36265 has 218 MA's), (28, 36232), (Start: 32 @36163 has 2 MA's), (44, 36046), (49, 36028), (55, 35995), (63, 35950), (66, 35917), (78, 35794), (83, 35767), (87, 35737), (88, 35707), (90, 35683), (91, 35671),

Gene: Schnapsidee_58 Start: 39452, Stop: 38721, Start Num: 27

Candidate Starts for Schnapsidee_58:

(Start: 27 @39452 has 218 MA's), (31, 39353), (Start: 32 @39350 has 2 MA's), (44, 39233), (55, 39182), (69, 39074), (71, 39065), (78, 38984), (87, 38927), (89, 38891), (91, 38861), (95, 38813), (104, 38750),

Gene: Schubert_51 Start: 36743, Stop: 35955, Start Num: 16

Candidate Starts for Schubert_51:

(Start: 16 @36743 has 1 MA's), (26, 36695), (Start: 32 @36584 has 2 MA's), (44, 36467), (55, 36416), (58, 36389), (69, 36308), (70, 36305), (74, 36269), (86, 36164), (91, 36095), (104, 35984),

Gene: Scissor2024_52 Start: 35911, Stop: 35177, Start Num: 27

Candidate Starts for Scissor2024_52:

(Start: 27 @35911 has 218 MA's), (28, 35878), (29, 35875), (Start: 32 @35809 has 2 MA's), (44, 35692), (49, 35674), (55, 35641), (63, 35596), (66, 35563), (78, 35440), (83, 35413), (87, 35383), (88, 35353), (90, 35329), (91, 35317),

Gene: Scumberland_8 Start: 3697, Stop: 4437, Start Num: 27

Candidate Starts for Scumberland_8:

(Start: 27 @3697 has 218 MA's), (28, 3730), (Start: 32 @3799 has 2 MA's), (34, 3811), (35, 3826), (43, 3901), (44, 3916), (68, 4060), (71, 4078), (77, 4144), (81, 4180), (90, 4276), (91, 4288), (93, 4303),

(104, 4399), (107, 4429),

Gene: Sedgewig_58 Start: 39252, Stop: 38521, Start Num: 27

Candidate Starts for Sedgewig_58:

(Start: 27 @39252 has 218 MA's), (Start: 32 @39150 has 2 MA's), (44, 39033), (55, 38982), (64, 38919), (69, 38874), (71, 38865), (78, 38784), (87, 38727), (91, 38661), (104, 38550),

Gene: Selwyn23_8 Start: 3709, Stop: 4449, Start Num: 27

Candidate Starts for Selwyn23_8:

(Start: 27 @3709 has 218 MA's), (28, 3742), (Start: 32 @3811 has 2 MA's), (34, 3823), (35, 3838), (43, 3913), (44, 3928), (68, 4072), (71, 4090), (77, 4156), (81, 4192), (90, 4288), (91, 4300), (104, 4411), (107, 4441),

Gene: ShaiHulud_59 Start: 39557, Stop: 38826, Start Num: 27

Candidate Starts for ShaiHulud_59:

(Start: 27 @39557 has 218 MA's), (Start: 32 @39455 has 2 MA's), (44, 39338), (55, 39287), (64, 39224), (69, 39179), (71, 39170), (78, 39089), (87, 39032), (89, 38996), (91, 38966), (104, 38855),

Gene: Shamu_56 Start: 37469, Stop: 36744, Start Num: 27

Candidate Starts for Shamu_56:

(Start: 27 @37469 has 218 MA's), (Start: 32 @37367 has 2 MA's), (44, 37259), (60, 37172), (64, 37142), (68, 37106), (70, 37094), (78, 37007), (87, 36950),

Gene: Shee_59 Start: 39545, Stop: 38814, Start Num: 27

Candidate Starts for Shee_59:

(Start: 27 @39545 has 218 MA's), (Start: 32 @39443 has 2 MA's), (44, 39326), (55, 39275), (64, 39212), (69, 39167), (71, 39158), (78, 39077), (87, 39020), (91, 38954), (104, 38843),

Gene: Shotgun_7 Start: 3470, Stop: 4210, Start Num: 27

Candidate Starts for Shotgun_7:

(Start: 27 @3470 has 218 MA's), (28, 3503), (Start: 32 @3572 has 2 MA's), (34, 3584), (35, 3599), (43, 3674), (44, 3689), (68, 3833), (71, 3851), (77, 3917), (81, 3953), (88, 4025), (90, 4049), (91, 4061), (104, 4172),

Gene: Shrubaron_5 Start: 2863, Stop: 3603, Start Num: 27

Candidate Starts for Shrubaron_5:

(14, 2785), (Start: 27 @2863 has 218 MA's), (28, 2896), (Start: 32 @2965 has 2 MA's), (34, 2977), (43, 3067), (44, 3082), (64, 3190), (68, 3226), (71, 3244), (77, 3310), (88, 3418), (91, 3454), (92, 3463), (104, 3565), (105, 3571),

Gene: Sinatra_52 Start: 36136, Stop: 35399, Start Num: 27

Candidate Starts for Sinatra_52:

(Start: 27 @36136 has 218 MA's), (Start: 32 @36025 has 2 MA's), (39, 35950), (41, 35938), (44, 35908), (59, 35830), (64, 35797), (68, 35761), (78, 35662), (79, 35659), (86, 35608), (88, 35575), (90, 35551), (92, 35530), (104, 35428),

Gene: SirFrank_7 Start: 3530, Stop: 4270, Start Num: 27

Candidate Starts for SirFrank_7:

(Start: 27 @3530 has 218 MA's), (28, 3563), (Start: 32 @3632 has 2 MA's), (34, 3644), (35, 3659), (43, 3734), (44, 3749), (68, 3893), (71, 3911), (77, 3977), (81, 4013), (88, 4085), (90, 4109), (91, 4121), (104, 4232),

Gene: SirVictor_53 Start: 36703, Stop: 35975, Start Num: 27

Candidate Starts for SirVictor_53:

(Start: 27 @36703 has 218 MA's), (Start: 32 @36601 has 2 MA's), (41, 36514), (44, 36484), (59, 36406), (64, 36373), (68, 36337), (76, 36277), (78, 36238), (79, 36235), (86, 36184), (88, 36151), (90, 36127), (92, 36106),

Gene: Skugga_5 Start: 2761, Stop: 3510, Start Num: 27

Candidate Starts for Skugga_5:

(Start: 27 @2761 has 218 MA's), (Start: 32 @2875 has 2 MA's), (34, 2887), (38, 2926), (43, 2977), (44, 2992), (45, 2995), (51, 3016), (53, 3034), (64, 3100), (66, 3115), (68, 3136), (71, 3154), (73, 3187), (77, 3220), (81, 3256), (88, 3328), (91, 3364), (92, 3373), (104, 3472), (105, 3478),

Gene: Smarties_11 Start: 4460, Stop: 5197, Start Num: 27

Candidate Starts for Smarties_11:

(Start: 27 @4460 has 218 MA's), (28, 4493), (Start: 32 @4562 has 2 MA's), (34, 4574), (35, 4589), (43, 4664), (44, 4679), (54, 4727), (64, 4787), (68, 4823), (77, 4907), (88, 5015), (91, 5051), (92, 5060), (104, 5162),

Gene: SoilGremlin_59 Start: 39341, Stop: 38610, Start Num: 27

Candidate Starts for SoilGremlin_59:

(Start: 27 @39341 has 218 MA's), (Start: 32 @39239 has 2 MA's), (44, 39122), (55, 39071), (64, 39008), (69, 38963), (71, 38954), (78, 38873), (87, 38816), (91, 38750), (104, 38639),

Gene: SolidSnake_60 Start: 39340, Stop: 38609, Start Num: 27

Candidate Starts for SolidSnake_60:

(Start: 27 @39340 has 218 MA's), (Start: 32 @39238 has 2 MA's), (44, 39121), (55, 39070), (64, 39007), (69, 38962), (71, 38953), (78, 38872), (87, 38815), (91, 38749), (104, 38638),

Gene: SonOfLevi_59 Start: 39319, Stop: 38588, Start Num: 27

Candidate Starts for SonOfLevi_59:

(Start: 27 @39319 has 218 MA's), (Start: 32 @39217 has 2 MA's), (44, 39100), (55, 39049), (64, 38986), (69, 38941), (71, 38932), (78, 38851), (87, 38794), (89, 38758), (91, 38728), (104, 38617),

Gene: Soror1_57 Start: 39333, Stop: 38602, Start Num: 27

Candidate Starts for Soror1_57:

(Start: 27 @39333 has 218 MA's), (31, 39234), (Start: 32 @39231 has 2 MA's), (44, 39114), (55, 39063), (69, 38955), (71, 38946), (78, 38865), (87, 38808), (89, 38772), (91, 38742), (95, 38694), (104, 38631),

Gene: Stanktossa_58 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Stanktossa_58:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (91, 38957), (104, 38846),

Gene: StingRay_58 Start: 39342, Stop: 38611, Start Num: 27

Candidate Starts for StingRay_58:

(Start: 27 @39342 has 218 MA's), (Start: 32 @39240 has 2 MA's), (44, 39123), (55, 39072), (64, 39009), (69, 38964), (71, 38955), (78, 38874), (87, 38817), (91, 38751), (104, 38640),

Gene: StirfryIV_58 Start: 39264, Stop: 38533, Start Num: 27

Candidate Starts for StirfryIV_58:

(Start: 27 @39264 has 218 MA's), (Start: 32 @39162 has 2 MA's), (44, 39045), (55, 38994), (64, 38931), (69, 38886), (71, 38877), (78, 38796), (87, 38739), (91, 38673), (104, 38562),

Gene: Stormbreaker8_57 Start: 39319, Stop: 38588, Start Num: 27

Candidate Starts for Stormbreaker8_57:

(Start: 27 @39319 has 218 MA's), (31, 39220), (Start: 32 @39217 has 2 MA's), (44, 39100), (55, 39049), (69, 38941), (71, 38932), (78, 38851), (87, 38794), (89, 38758), (91, 38728), (95, 38680), (104, 38617),

Gene: Strathdee_59 Start: 39547, Stop: 38816, Start Num: 27

Candidate Starts for Strathdee_59:

(Start: 27 @39547 has 218 MA's), (Start: 32 @39445 has 2 MA's), (44, 39328), (55, 39277), (64, 39214), (69, 39169), (71, 39160), (78, 39079), (87, 39022), (89, 38986), (91, 38956), (104, 38845),

Gene: Sunny_ Start: 3722, Stop: 4393, Start Num: 32

Candidate Starts for Sunny_:

(Start: 27 @3620 has 218 MA's), (28, 3653), (Start: 32 @3722 has 2 MA's), (45, 3842), (46, 3845), (47, 3848), (56, 3923), (68, 4016), (71, 4034), (86, 4172), (88, 4205), (90, 4229), (92, 4250), (104, 4352),

Gene: Superfresh_59 Start: 39604, Stop: 38873, Start Num: 27

Candidate Starts for Superfresh_59:

(Start: 27 @39604 has 218 MA's), (Start: 32 @39502 has 2 MA's), (44, 39385), (55, 39334), (64, 39271), (69, 39226), (71, 39217), (78, 39136), (87, 39079), (91, 39013), (104, 38902),

Gene: Sweetums_64 Start: 35836, Stop: 36579, Start Num: 27

Candidate Starts for Sweetums_64:

(1, 35131), (2, 35134), (3, 35173), (5, 35485), (6, 35509), (7, 35548), (8, 35593), (9, 35617), (21, 35782), (Start: 27 @35836 has 218 MA's), (28, 35881), (Start: 32 @35950 has 2 MA's), (39, 36025), (47, 36076), (53, 36109), (64, 36175), (69, 36220), (71, 36229), (86, 36364), (88, 36397), (89, 36403), (91, 36433), (92, 36442), (101, 36526), (106, 36568),

Gene: Symere_58 Start: 39262, Stop: 38531, Start Num: 27

Candidate Starts for Symere_58:

(Start: 27 @39262 has 218 MA's), (Start: 32 @39160 has 2 MA's), (44, 39043), (55, 38992), (64, 38929), (69, 38884), (71, 38875), (78, 38794), (87, 38737), (91, 38671), (104, 38560),

Gene: TatarkaPM_59 Start: 39558, Stop: 38827, Start Num: 27

Candidate Starts for TatarkaPM_59:

(Start: 27 @39558 has 218 MA's), (Start: 32 @39456 has 2 MA's), (44, 39339), (55, 39288), (64, 39225), (69, 39180), (71, 39171), (78, 39090), (87, 39033), (91, 38967), (104, 38856),

Gene: Teagan_59 Start: 39538, Stop: 38807, Start Num: 27

Candidate Starts for Teagan_59:

(Start: 27 @39538 has 218 MA's), (Start: 32 @39436 has 2 MA's), (44, 39319), (55, 39268), (64, 39205), (69, 39160), (71, 39151), (78, 39070), (87, 39013), (91, 38947), (104, 38836),

Gene: Teamocil_5 Start: 2600, Stop: 3349, Start Num: 27

Candidate Starts for Teamocil_5:

(Start: 27 @2600 has 218 MA's), (Start: 32 @2714 has 2 MA's), (34, 2726), (38, 2765), (43, 2816), (44, 2831), (45, 2834), (51, 2855), (53, 2873), (64, 2939), (66, 2954), (68, 2975), (71, 2993), (73, 3026), (77, 3059), (81, 3095), (88, 3167), (91, 3203), (92, 3212), (98, 3263), (104, 3311), (105, 3317),

Gene: TeddyBear_58 Start: 39301, Stop: 38570, Start Num: 27

Candidate Starts for TeddyBear_58:

(Start: 27 @39301 has 218 MA's), (Start: 32 @39199 has 2 MA's), (44, 39082), (55, 39031), (64, 38968), (69, 38923), (71, 38914), (78, 38833), (87, 38776), (89, 38740), (91, 38710), (104, 38599),

Gene: Tenda_58 Start: 39299, Stop: 38568, Start Num: 27

Candidate Starts for Tenda_58:

(Start: 27 @39299 has 218 MA's), (Start: 32 @39197 has 2 MA's), (44, 39080), (55, 39029), (64, 38966), (69, 38921), (71, 38912), (78, 38831), (87, 38774), (89, 38738), (91, 38708), (104, 38597),

Gene: Teng_66 Start: 35741, Stop: 36484, Start Num: 27

Candidate Starts for Teng_66:

(1, 35036), (2, 35039), (3, 35078), (5, 35390), (6, 35414), (7, 35453), (8, 35498), (9, 35522), (21, 35687), (Start: 27 @35741 has 218 MA's), (28, 35786), (Start: 32 @35855 has 2 MA's), (39, 35930), (47, 35981), (53, 36014), (54, 36020), (64, 36080), (69, 36125), (71, 36134), (84, 36254), (86, 36269), (88, 36302), (89, 36308), (91, 36338), (92, 36347), (101, 36431), (106, 36473),

Gene: Thompsonsone_59 Start: 39545, Stop: 38814, Start Num: 27

Candidate Starts for Thompsonsone_59:

(Start: 27 @39545 has 218 MA's), (Start: 32 @39443 has 2 MA's), (44, 39326), (55, 39275), (64, 39212), (69, 39167), (71, 39158), (78, 39077), (87, 39020), (91, 38954), (104, 38843),

Gene: Thorongil_59 Start: 39062, Stop: 38331, Start Num: 27

Candidate Starts for Thorongil_59:

(Start: 27 @39062 has 218 MA's), (Start: 32 @38960 has 2 MA's), (44, 38843), (55, 38792), (64, 38729), (69, 38684), (71, 38675), (78, 38594), (87, 38537), (91, 38471), (104, 38360),

Gene: TinSulphur_60 Start: 39554, Stop: 38823, Start Num: 27

Candidate Starts for TinSulphur_60:

(Start: 27 @39554 has 218 MA's), (Start: 32 @39452 has 2 MA's), (44, 39335), (55, 39284), (64, 39221), (69, 39176), (71, 39167), (78, 39086), (87, 39029), (91, 38963), (104, 38852),

Gene: Tinyman4_51 Start: 35961, Stop: 35227, Start Num: 27

Candidate Starts for Tinyman4_51:

(Start: 27 @35961 has 218 MA's), (28, 35928), (Start: 32 @35859 has 2 MA's), (44, 35742), (49, 35724), (55, 35691), (63, 35646), (66, 35613), (78, 35490), (83, 35463), (87, 35433), (88, 35403), (90, 35379), (91, 35367),

Gene: Tyrumbra_5 Start: 2866, Stop: 3615, Start Num: 27

Candidate Starts for Tyrumbra_5:

(11, 2752), (Start: 27 @2866 has 218 MA's), (Start: 32 @2980 has 2 MA's), (34, 2992), (43, 3082), (44, 3097), (53, 3139), (68, 3241), (71, 3259), (77, 3325), (81, 3361), (88, 3433), (91, 3469), (92, 3478), (104, 3577), (105, 3583),

Gene: Velene_59 Start: 39544, Stop: 38813, Start Num: 27

Candidate Starts for Velene_59:

(Start: 27 @39544 has 218 MA's), (Start: 32 @39442 has 2 MA's), (44, 39325), (55, 39274), (64, 39211), (69, 39166), (71, 39157), (78, 39076), (87, 39019), (91, 38953), (104, 38842),

Gene: Vispistious_59 Start: 39548, Stop: 38817, Start Num: 27

Candidate Starts for Vispistious_59:

(Start: 27 @39548 has 218 MA's), (Start: 32 @39446 has 2 MA's), (44, 39329), (55, 39278), (64, 39215), (69, 39170), (71, 39161), (78, 39080), (87, 39023), (89, 38987), (91, 38957), (104, 38846),

Gene: WestPM_51 Start: 36179, Stop: 35445, Start Num: 27

Candidate Starts for WestPM_51:

(Start: 27 @36179 has 218 MA's), (28, 36146), (Start: 32 @36077 has 2 MA's), (44, 35960), (49, 35942), (55, 35909), (63, 35864), (66, 35831), (71, 35792), (78, 35708), (87, 35651), (88, 35621), (90, 35597), (91, 35585),

Gene: WildNOut_59 Start: 39541, Stop: 38810, Start Num: 27

Candidate Starts for WildNOut_59:

(Start: 27 @39541 has 218 MA's), (Start: 32 @39439 has 2 MA's), (44, 39322), (55, 39271), (64, 39208), (69, 39163), (71, 39154), (78, 39073), (87, 39016), (91, 38950), (104, 38839),

Gene: Winzigespinne_58 Start: 39287, Stop: 38556, Start Num: 27

Candidate Starts for Winzigespinne_58:

(Start: 27 @39287 has 218 MA's), (Start: 32 @39185 has 2 MA's), (44, 39068), (55, 39017), (64, 38954), (69, 38909), (71, 38900), (78, 38819), (87, 38762), (91, 38696), (104, 38585),

Gene: Xebius_56 Start: 37583, Stop: 36858, Start Num: 27

Candidate Starts for Xebius_56:

(Start: 27 @37583 has 218 MA's), (Start: 32 @37481 has 2 MA's), (44, 37373), (60, 37286), (64, 37256), (68, 37220), (70, 37208), (78, 37121), (87, 37064),

Gene: Yeti_7 Start: 3479, Stop: 4219, Start Num: 27

Candidate Starts for Yeti_7:

(Start: 27 @3479 has 218 MA's), (28, 3512), (Start: 32 @3581 has 2 MA's), (34, 3593), (35, 3608), (43, 3683), (44, 3698), (68, 3842), (71, 3860), (77, 3926), (81, 3962), (90, 4058), (91, 4070), (104, 4181), (107, 4211),

Gene: Zada_60 Start: 39560, Stop: 38829, Start Num: 27

Candidate Starts for Zada_60:

(Start: 27 @39560 has 218 MA's), (Start: 32 @39458 has 2 MA's), (44, 39341), (55, 39290), (64, 39227), (69, 39182), (71, 39173), (78, 39092), (87, 39035), (91, 38969), (104, 38858),

Gene: Zapato_5 Start: 2851, Stop: 3588, Start Num: 27

Candidate Starts for Zapato_5:

(14, 2770), (Start: 27 @2851 has 218 MA's), (28, 2884), (Start: 32 @2953 has 2 MA's), (39, 3028), (43, 3055), (44, 3070), (46, 3076), (53, 3112), (64, 3178), (66, 3193), (71, 3232), (77, 3298), (88, 3406), (91, 3442), (92, 3451), (98, 3502), (104, 3550),

Gene: Zenitsu_56 Start: 37616, Stop: 36891, Start Num: 27

Candidate Starts for Zenitsu_56:

(Start: 27 @37616 has 218 MA's), (Start: 32 @37514 has 2 MA's), (44, 37406), (60, 37319), (64, 37289), (68, 37253), (70, 37241), (78, 37154), (87, 37097),