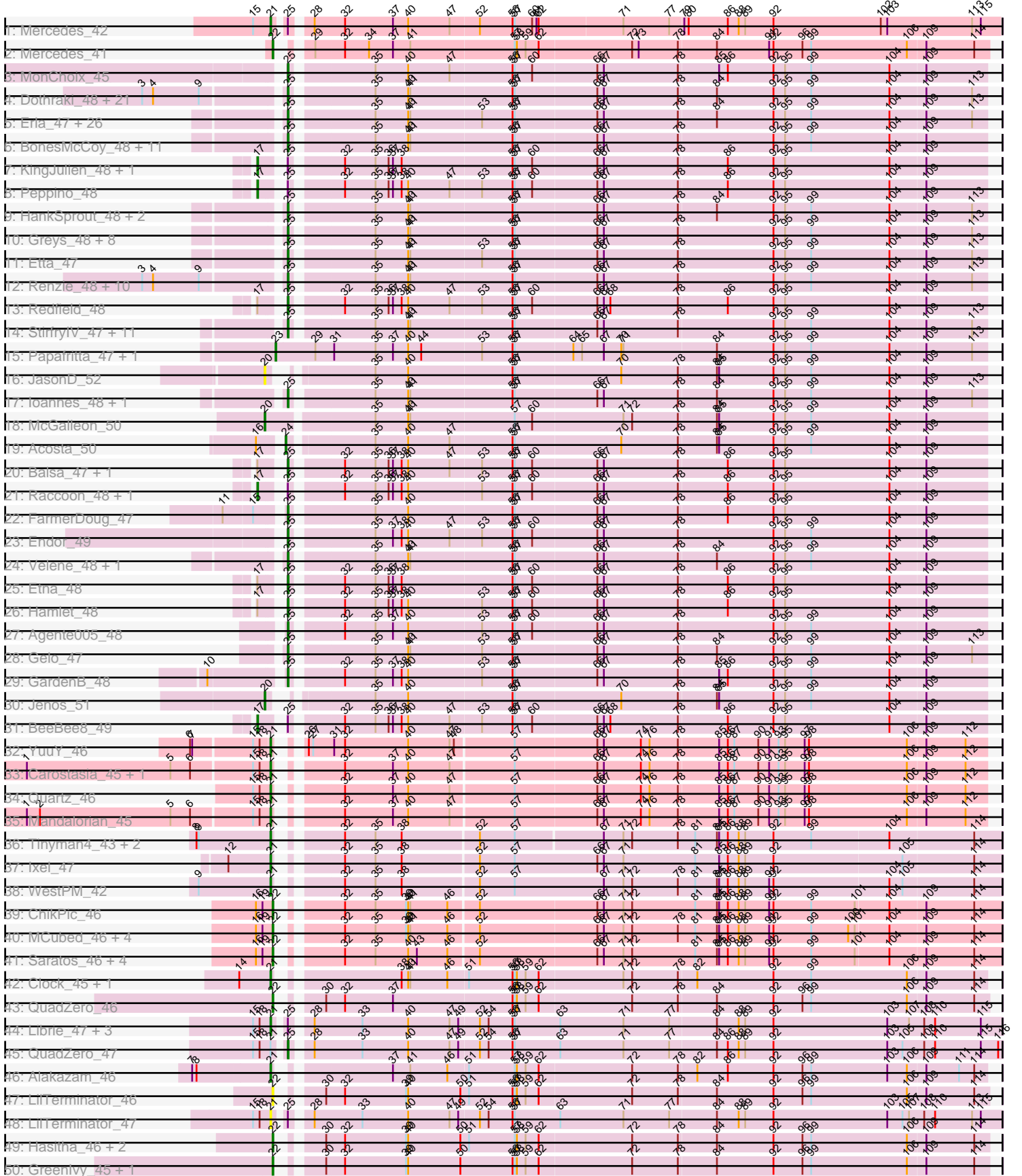
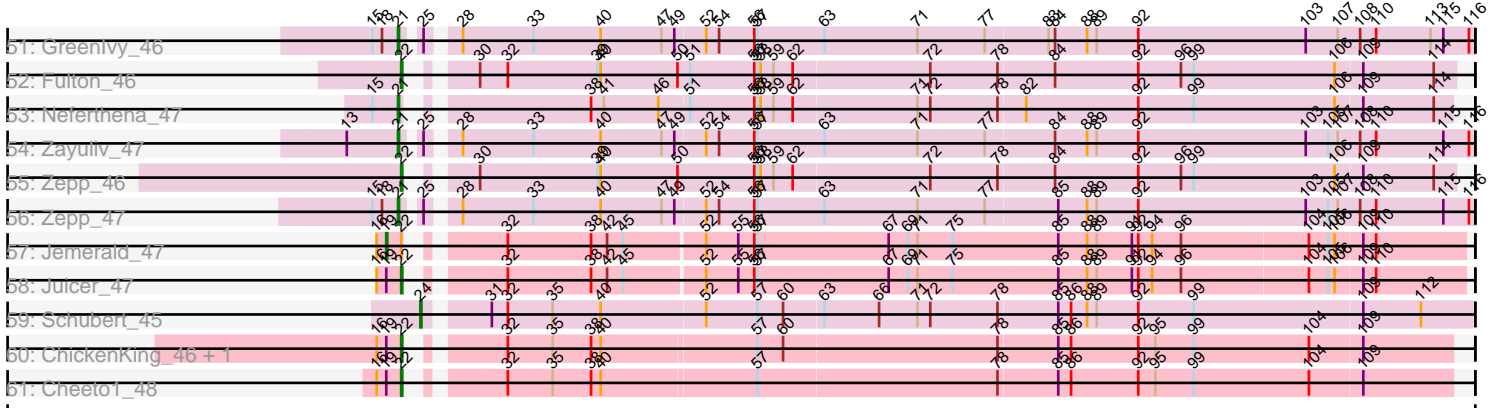


Pham 182018



Pham 182018



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 182018 Report

This analysis was run 11/02/24 on database version 579.

Pham number 182018 has 175 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Mercedes_42
- Track 2 : Mercedes_41
- Track 3 : MonChoix_45
- Track 4 : Dothraki_48, Riyhil_48, NickSell_48, Kurt1_48, Martin_49, Bandik_48, TatarkaPM_48, BeautPeep30_48, Inventa_48, Rapheph_48, ParleG_48, Stanktossa_48, MillyPhilly_48, Shee_48, Phireproof_48, MrWorldwide_48, Byron23_49, Pherferi_48, Phiderman_48, PhredFlintston_48, MaeLinda_48, TinSulphur_49
- Track 5 : Erla_47, Garey24_48, Kale_47, ManRay_47, Winzigespinne_47, TeddyBear_47, SJay_48, Klimt_48, Espinosa_47, Baines_47, Pocket_47, Bonino_47, Aubergine_47, Chamuel_47, Rog141_47, Asta_47, SonOfLevi_48, Nattles_47, Gershwin_47, Calix_47, Christoph_47, Nagem_48, Oats_47, Tenda_47, Jerbirus_49, StingRay_47, Gubbabump_47
- Track 6 : BonesMcCoy_48, BigRedClifford_48, Convict_48, Oxtober96_49, Blage_48, WildNOut_48, Knox_48, Thompsone_48, Gargoyle_48, Raptor_48, Lovelyunicorn_48, Den3_48
- Track 7 : KingJulien_48, Stormbreaker8_47
- Track 8 : Peppino_48
- Track 9 : HankSprout_48, Figueroism_48, Zada_49
- Track 10 : Greys_48, Strathdee_48, Thorongil_48, Vispistious_48, Ludgate_48, Alyxandracam_48, AxiPup_48, PuppyEggo_48, ShaiHulud_49
- Track 11 : Etta_47
- Track 12 : Renzie_48, Peep_48, Dave_48, Robinson_48, Superfresh_48, OldNelly_49, Delphidian_48, SoilGremlin_49, AlexAdler_48, Antoinette_48, Phriends_48
- Track 13 : Redfield_48
- Track 14 : StirfryIV_47, Benjalauren_48, HanSolo_47, AranulaLuti_47, Ilzat_47, KannH_47, JeriBeth_49, Clancy_47, HungryHenry_47, Sedgewig_47, Chako_47, JasperRussell_47
- Track 15 : Papafritta_47, Janus167_47
- Track 16 : JasonD_52
- Track 17 : Ioannes_48, Duocatuli_47
- Track 18 : McGalleon_50
- Track 19 : Acosta_50
- Track 20 : Balsa_47, Schnapsidee_48
- Track 21 : Raccoon_48, Leafus_48
- Track 22 : FarmerDoug_47

- Track 23 : Endor_49
- Track 24 : Velene_48, Teagan_48
- Track 25 : Etna_48
- Track 26 : Hamlet_48
- Track 27 : Agente005_48
- Track 28 : Gelo_47
- Track 29 : GardenB_48
- Track 30 : Jenos_51
- Track 31 : BeeBee8_49
- Track 32 : YuuY_46
- Track 33 : Carostasia_45, Nucci_45
- Track 34 : Quartz_46
- Track 35 : Mandalorian_45
- Track 36 : Tinyman4_43, Schimmels22_43, HerculesXL_44
- Track 37 : Ixel_47
- Track 38 : WestPM_42
- Track 39 : ChikPic_46
- Track 40 : MCubed_46, Zenitsu_46, Shamu_47, Sansa_45, Finny_47
- Track 41 : Saratos_46, Eleri_46, ColaCorta_46, Glamour_46, Andromedas_46
- Track 42 : Clock_45, Nebulous_44
- Track 43 : QuadZero_46
- Track 44 : Librie_47, Hasitha_47, Fulton_47, CaptainRex_47
- Track 45 : QuadZero_47
- Track 46 : Alakazam_46
- Track 47 : LilTerminator_46
- Track 48 : LilTerminator_47
- Track 49 : Hasitha_46, CaptainRex_46, Librie_46
- Track 50 : Greenlvy_45, Zayuliv_46
- Track 51 : Greenlvy_46
- Track 52 : Fulton_46
- Track 53 : Neferthema_47
- Track 54 : Zayuliv_47
- Track 55 : Zepp_46
- Track 56 : Zepp_47
- Track 57 : Jemerald_47
- Track 58 : Juicer_47
- Track 59 : Schubert_45
- Track 60 : ChickenKing_46, GaeCeo_48
- Track 61 : Cheeto1_48

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

The start number called the most often in the published annotations is 25, it was called in 109 of the 167 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Agente005_48, AlexAdler_48, Alyxandracam_48, Antoinette_48, AranulaLuti_47, Asta_47, Aubergine_47, AxiPup_48, Baines_47, Balsa_47, Bandik_48, BeautPeep30_48, Benjalauren_48, BigRedClifford_48, Blage_48, BonesMcCoy_48, Bonino_47, Byron23_49, Calix_47, Chako_47, Chamuel_47, Christoph_47,

Clancy_47, Convict_48, Dave_48, Delphidian_48, Den3_48, Dothraki_48, Duocatuli_47, Endor_49, Erla_47, Espinosa_47, Etna_48, Etta_47, FarmerDoug_47, Figueroism_48, GardenB_48, Garey24_48, Gargoyle_48, Gelo_47, Gershwin_47, Greys_48, Gubbabump_47, Hamlet_48, HanSolo_47, HankSprout_48, HungryHenry_47, Ilzat_47, Inventa_48, Ioannes_48, JasperRussell_47, Jerbirus_49, JeriBeth_49, Kale_47, KannH_47, Klimt_48, Knox_48, Kurt1_48, Lovelyunicorn_48, Ludgate_48, MaeLinda_48, ManRay_47, Martin_49, MillyPhilly_48, MonChoix_45, MrWorldwide_48, Nagem_48, Nattles_47, NickSell_48, Oats_47, OldNelly_49, Oxtober96_49, ParleG_48, Peep_48, Pherferi_48, Phiderman_48, Phireproof_48, PhredFlintston_48, Phriends_48, Pocket_47, PuppyEggo_48, QuadZero_47, Rappheph_48, Raptor_48, Redfield_48, Renzie_48, Rihhil_48, Robinson_48, Rog141_47, SJay_48, Schnapsidee_48, Sedgewig_47, ShaiHulud_49, Shee_48, SoilGremlin_49, SonOfLevi_48, Stanktossa_48, StingRay_47, StirfryIV_47, Strathdee_48, Superfresh_48, TatarkaPM_48, Teagan_48, TeddyBear_47, Tenda_47, Thompsone_48, Thorongil_48, TinSulphur_49, Velene_48, Vispistious_48, WildNOut_48, Winzigespinne_47, Zada_49,

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

- BeeBee8_49, CaptainRex_47, Fulton_47, Greenlvy_46, Hasitha_47, KingJulien_48, Leafus_48, Librie_47, LilTerminator_47, Mercedes_42, Peppino_48, Raccoon_48, Stormbreaker8_47, Zayuliv_47, Zepp_47,

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

- Acosta_50, Alakazam_46, Andromedas_46, CaptainRex_46, Carostasia_45, Cheeto1_48, ChickenKing_46, ChikPic_46, Clock_45, ColaCorta_46, Eleri_46, Finny_47, Fulton_46, GaeCeo_48, Glamour_46, Greenlvy_45, Hasitha_46, HerculesXL_44, Ixel_47, Janus167_47, JasonD_52, Jemerald_47, Jenos_51, Juicer_47, Librie_46, LilTerminator_46, MCubed_46, Mandalorian_45, McGalleon_50, Mercedes_41, Nebulous_44, Neferthena_47, Nucci_45, Papafritta_47, QuadZero_46, Quartz_46, Sansa_45, Saratos_46, Schimmels22_43, Schubert_45, Shamu_47, Tinyman4_43, WestPM_42, YuuY_46, Zayuliv_46, Zenitsu_46, Zepp_46,

Summary by start number:

Start 17:

- Found in 11 of 175 (6.3%) of genes in pham
- Manual Annotations of this start: 5 of 167
- Called 54.5% of time when present
- Phage (with cluster) where this start called: BeeBee8_49 (EA1), KingJulien_48 (EA1), Leafus_48 (EA1), Peppino_48 (EA1), Raccoon_48 (EA1), Stormbreaker8_47 (EA1),

Start 19:

- Found in 16 of 175 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 167
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Jemerald_47 (EA6),

Start 20:

- Found in 3 of 175 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 167
- Called 100.0% of time when present

- Phage (with cluster) where this start called: JasonD_52 (EA1), Jenos_51 (EA1), McGalleon_50 (EA1),

Start 21:

- Found in 24 of 175 (13.7%) of genes in pham
- Manual Annotations of this start: 22 of 167
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Alakazam_46 (EA5), CaptainRex_47 (EA5), Carostasia_45 (EA10), Clock_45 (EA5), Fulton_47 (EA5), Greenlvy_46 (EA5), Hasitha_47 (EA5), HerculesXL_44 (EA11), Ixel_47 (EA11), Librie_47 (EA5), LilTerminator_47 (EA5), Mandalorian_45 (EA10), Mercedes_42 (EA), Nebulous_44 (EA5), Neferthena_47 (EA5), Nucci_45 (EA10), Quartz_46 (EA10), Schimmels22_43 (EA11), Tinyman4_43 (EA11), WestPM_42 (EA11), YuuY_46 (EA10), Zayuliv_47 (EA5), Zepp_47 (EA5),

Start 22:

- Found in 26 of 175 (14.9%) of genes in pham
- Manual Annotations of this start: 24 of 167
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Andromedas_46 (EA2), CaptainRex_46 (EA5), Cheeto1_48 (EA9), ChickenKing_46 (EA9), ChikPic_46 (EA2), ColaCorta_46 (EA2), Eleri_46 (EA2), Finny_47 (EA2), Fulton_46 (EA5), GaeCeo_48 (EA9), Glamour_46 (EA2), Greenlvy_45 (EA5), Hasitha_46 (EA5), Juicer_47 (EA6), Librie_46 (EA5), LilTerminator_46 (EA5), MCubed_46 (EA2), Mercedes_41 (EA), QuadZero_46 (EA5), Sansa_45 (EA2), Saratos_46 (EA2), Shamu_47 (EA2), Zayuliv_46 (EA5), Zenitsu_46 (EA2), Zepp_46 (EA5),

Start 23:

- Found in 2 of 175 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 167
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Janus167_47 (EA1), Papafritta_47 (EA1),

Start 24:

- Found in 2 of 175 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 167
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta_50 (EA1), Schubert_45 (EA8),

Start 25:

- Found in 128 of 175 (73.1%) of genes in pham
- Manual Annotations of this start: 109 of 167
- Called 88.3% of time when present
- Phage (with cluster) where this start called: Agente005_48 (EA1), AlexAdler_48 (EA1), Alyxandracam_48 (EA1), Antoinette_48 (EA1), AranulaLuti_47 (EA1), Asta_47 (EA1), Aubergine_47 (EA1), AxiPup_48 (EA1), Baines_47 (EA1), Balsa_47 (EA1), Bandik_48 (EA1), BeautPeep30_48 (EA1), Benjalauren_48 (EA1), BigRedClifford_48 (EA1), Blage_48 (EA1), BonesMcCoy_48 (EA1), Bonino_47 (EA1), Byron23_49 (EA1), Calix_47 (EA1), Chako_47 (EA1), Chamuel_47 (EA1), Christoph_47 (EA1), Clancy_47 (EA1), Convict_48 (EA1), Dave_48 (EA1), Delphidian_48 (EA1), Den3_48 (EA1), Dothraki_48 (EA1), Duocatuli_47 (EA1), Endor_49 (EA1), Erla_47 (EA1), Espinosa_47 (EA1), Etna_48 (EA1), Etta_47 (EA1), FarmerDoug_47 (EA1),

Figuerismo_48 (EA1), GardenB_48 (EA1), Garey24_48 (EA1), Gargoyle_48 (EA1), Gelo_47 (EA1), Gershwin_47 (EA1), Greys_48 (EA1), Gubbabump_47 (EA1), Hamlet_48 (EA1), HanSolo_47 (EA1), HankSprout_48 (EA1), HungryHenry_47 (EA1), Ilzat_47 (EA1), Inventa_48 (EA1), Ioannes_48 (EA1), JasperRussell_47 (EA1), Jerbirus_49 (EA1), JeriBeth_49 (EA1), Kale_47 (EA1), KannH_47 (EA1), Klimt_48 (EA1), Knox_48 (EA1), Kurt1_48 (EA1), Lovelyunicorn_48 (EA1), Ludgate_48 (EA1), MaeLinda_48 (EA1), ManRay_47 (EA1), Martin_49 (EA1), MillyPhilly_48 (EA1), MonChoix_45 (EA1), MrWorldwide_48 (EA1), Nagem_48 (EA1), Nattles_47 (EA1), NickSell_48 (EA1), Oats_47 (EA1), OldNelly_49 (EA1), Oxtober96_49 (EA1), ParleG_48 (EA1), Peep_48 (EA1), Pherferi_48 (EA1), Phiderman_48 (EA1), Phireproof_48 (EA1), PhredFlintston_48 (EA1), Phriends_48 (EA1), Pocket_47 (EA1), PuppyEggo_48 (EA1), QuadZero_47 (EA5), Rappheph_48 (EA1), Raptor_48 (EA1), Redfield_48 (EA1), Renzie_48 (EA1), Rihhil_48 (EA1), Robinson_48 (EA1), Rog141_47 (EA1), SJay_48 (EA1), Schnapsidee_48 (EA1), Sedgewig_47 (EA1), ShaiHulud_49 (EA1), Shee_48 (EA1), SoilGremlin_49 (EA1), SonOfLevi_48 (EA1), Stanktossa_48 (EA1), StingRay_47 (EA1), StirfryIV_47 (EA1), Strathdee_48 (EA1), Superfresh_48 (EA1), TatarkaPM_48 (EA1), Teagan_48 (EA1), TeddyBear_47 (EA1), Tenda_47 (EA1), Thompsone_48 (EA1), Thorongil_48 (EA1), TinSulphur_49 (EA1), Velene_48 (EA1), Vispistious_48 (EA1), WildNOut_48 (EA1), Winzigespinne_47 (EA1), Zada_49 (EA1),

Summary by clusters:

There are 9 clusters represented in this pham: EA11, EA10, EA, EA9, EA8, EA1, EA2, EA5, EA6,

Info for manual annotations of cluster EA:

- Start number 21 was manually annotated 1 time for cluster EA.
- Start number 22 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 17 was manually annotated 5 times for cluster EA1.
- Start number 20 was manually annotated 2 times for cluster EA1.
- Start number 23 was manually annotated 2 times for cluster EA1.
- Start number 24 was manually annotated 1 time for cluster EA1.
- Start number 25 was manually annotated 108 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 21 was manually annotated 5 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 21 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 22 was manually annotated 11 times for cluster EA2.

Info for manual annotations of cluster EA5:

- Start number 21 was manually annotated 11 times for cluster EA5.
- Start number 22 was manually annotated 8 times for cluster EA5.
- Start number 25 was manually annotated 1 time for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 19 was manually annotated 1 time for cluster EA6.

- Start number 22 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA8:

- Start number 24 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 22 was manually annotated 3 times for cluster EA9.

Gene Information:

Gene: Acosta_50 Start: 35485, Stop: 34550, Start Num: 24

Candidate Starts for Acosta_50:

(16, 35509), (Start: 24 @35485 has 2 MA's), (35, 35380), (40, 35335), (47, 35278), (56, 35194), (57, 35191), (70, 35047), (78, 34969), (84, 34918), (85, 34915), (92, 34840), (95, 34825), (99, 34789), (104, 34681), (109, 34633),

Gene: Agente005_48 Start: 35301, Stop: 34369, Start Num: 25

Candidate Starts for Agente005_48:

(Start: 25 @35301 has 109 MA's), (32, 35241), (35, 35199), (37, 35175), (40, 35154), (53, 35055), (56, 35013), (57, 35010), (60, 34986), (66, 34899), (67, 34890), (78, 34788), (92, 34659), (95, 34644), (99, 34608), (104, 34500), (109, 34452),

Gene: Alakazam_46 Start: 34714, Stop: 33779, Start Num: 21

Candidate Starts for Alakazam_46:

(7, 34819), (8, 34813), (Start: 21 @34714 has 22 MA's), (37, 34585), (41, 34561), (46, 34510), (51, 34483), (57, 34420), (58, 34417), (59, 34405), (62, 34387), (72, 34261), (78, 34198), (82, 34174), (86, 34132), (92, 34069), (96, 34030), (99, 34018), (103, 33913), (106, 33886), (109, 33862), (111, 33817), (114, 33796),

Gene: AlexAdler_48 Start: 35308, Stop: 34376, Start Num: 25

Candidate Starts for AlexAdler_48:

(3, 35488), (4, 35473), (9, 35410), (Start: 25 @35308 has 109 MA's), (35, 35206), (40, 35161), (41, 35158), (56, 35020), (57, 35017), (66, 34906), (67, 34897), (78, 34795), (92, 34666), (95, 34651), (99, 34615), (104, 34507), (109, 34459), (113, 34396),

Gene: Alyxandracam_48 Start: 35318, Stop: 34386, Start Num: 25

Candidate Starts for Alyxandracam_48:

(Start: 25 @35318 has 109 MA's), (35, 35216), (40, 35171), (41, 35168), (56, 35030), (57, 35027), (66, 34916), (67, 34907), (78, 34805), (92, 34676), (95, 34661), (99, 34625), (104, 34517), (109, 34469), (113, 34406),

Gene: Andromedas_46 Start: 34244, Stop: 33294, Start Num: 22

Candidate Starts for Andromedas_46:

(16, 34265), (Start: 19 @34256 has 1 MA's), (Start: 22 @34244 has 24 MA's), (32, 34184), (35, 34142), (40, 34097), (43, 34085), (46, 34043), (52, 34004), (66, 33845), (67, 33836), (71, 33809), (72, 33797), (81, 33710), (84, 33680), (85, 33677), (86, 33665), (88, 33650), (89, 33641), (91, 33608), (92, 33602), (99, 33551), (101, 33491), (104, 33446), (109, 33398), (114, 33332),

Gene: Antoinette_48 Start: 35308, Stop: 34376, Start Num: 25

Candidate Starts for Antoinette_48:

(3, 35488), (4, 35473), (9, 35410), (Start: 25 @35308 has 109 MA's), (35, 35206), (40, 35161), (41, 35158), (56, 35020), (57, 35017), (66, 34906), (67, 34897), (78, 34795), (92, 34666), (95, 34651), (99, 34615), (104, 34507), (109, 34459), (113, 34396),

Gene: AranulaLuti_47 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for AranulaLuti_47:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: Asta_47 Start: 35030, Stop: 34098, Start Num: 25

Candidate Starts for Asta_47:

(Start: 25 @35030 has 109 MA's), (35, 34928), (40, 34883), (41, 34880), (53, 34784), (56, 34742), (57, 34739), (66, 34628), (67, 34619), (78, 34517), (84, 34466), (92, 34388), (95, 34373), (99, 34337), (104, 34229), (109, 34181), (113, 34118),

Gene: Aubergine_47 Start: 35030, Stop: 34098, Start Num: 25

Candidate Starts for Aubergine_47:

(Start: 25 @35030 has 109 MA's), (35, 34928), (40, 34883), (41, 34880), (53, 34784), (56, 34742), (57, 34739), (66, 34628), (67, 34619), (78, 34517), (84, 34466), (92, 34388), (95, 34373), (99, 34337), (104, 34229), (109, 34181), (113, 34118),

Gene: AxiPup_48 Start: 35287, Stop: 34355, Start Num: 25

Candidate Starts for AxiPup_48:

(Start: 25 @35287 has 109 MA's), (35, 35185), (40, 35140), (41, 35137), (56, 34999), (57, 34996), (66, 34885), (67, 34876), (78, 34774), (92, 34645), (95, 34630), (99, 34594), (104, 34486), (109, 34438), (113, 34375),

Gene: Baines_47 Start: 35023, Stop: 34091, Start Num: 25

Candidate Starts for Baines_47:

(Start: 25 @35023 has 109 MA's), (35, 34921), (40, 34876), (41, 34873), (53, 34777), (56, 34735), (57, 34732), (66, 34621), (67, 34612), (78, 34510), (84, 34459), (92, 34381), (95, 34366), (99, 34330), (104, 34222), (109, 34174), (113, 34111),

Gene: Balsa_47 Start: 35285, Stop: 34353, Start Num: 25

Candidate Starts for Balsa_47:

(Start: 17 @35306 has 5 MA's), (Start: 25 @35285 has 109 MA's), (32, 35225), (35, 35183), (36, 35165), (37, 35159), (38, 35147), (40, 35138), (47, 35081), (53, 35039), (56, 34997), (57, 34994), (60, 34970), (66, 34883), (67, 34874), (78, 34772), (86, 34706), (92, 34643), (95, 34628), (104, 34484), (109, 34436),

Gene: Bandik_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for Bandik_48:

(3, 35493), (4, 35478), (9, 35415), (Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: BeautPeep30_48 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for BeautPeep30_48:

(3, 35499), (4, 35484), (9, 35421), (Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (84, 34755), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470), (113, 34407),

Gene: BeeBee8_49 Start: 35477, Stop: 34524, Start Num: 17

Candidate Starts for BeeBee8_49:

(Start: 17 @35477 has 5 MA's), (Start: 25 @35456 has 109 MA's), (32, 35396), (35, 35354), (36, 35336), (37, 35330), (38, 35318), (40, 35309), (47, 35252), (53, 35210), (56, 35168), (57, 35165), (60, 35141), (66, 35054), (67, 35045), (68, 35036), (78, 34943), (86, 34877), (92, 34814), (95, 34799), (104, 34655), (109, 34607),

Gene: Benjalauren_48 Start: 35036, Stop: 34104, Start Num: 25

Candidate Starts for Benjalauren_48:

(Start: 25 @35036 has 109 MA's), (35, 34934), (40, 34889), (41, 34886), (56, 34748), (57, 34745), (66, 34634), (67, 34625), (78, 34523), (92, 34394), (95, 34379), (99, 34343), (104, 34235), (109, 34187), (113, 34124),

Gene: BigRedClifford_48 Start: 35314, Stop: 34382, Start Num: 25

Candidate Starts for BigRedClifford_48:

(Start: 25 @35314 has 109 MA's), (35, 35212), (40, 35167), (41, 35164), (56, 35026), (57, 35023), (66, 34912), (67, 34903), (78, 34801), (92, 34672), (95, 34657), (99, 34621), (104, 34513), (109, 34465),

Gene: Blage_48 Start: 35314, Stop: 34382, Start Num: 25

Candidate Starts for Blage_48:

(Start: 25 @35314 has 109 MA's), (35, 35212), (40, 35167), (41, 35164), (56, 35026), (57, 35023), (66, 34912), (67, 34903), (78, 34801), (92, 34672), (95, 34657), (99, 34621), (104, 34513), (109, 34465),

Gene: BonesMcCoy_48 Start: 35314, Stop: 34382, Start Num: 25

Candidate Starts for BonesMcCoy_48:

(Start: 25 @35314 has 109 MA's), (35, 35212), (40, 35167), (41, 35164), (56, 35026), (57, 35023), (66, 34912), (67, 34903), (78, 34801), (92, 34672), (95, 34657), (99, 34621), (104, 34513), (109, 34465),

Gene: Bonino_47 Start: 35009, Stop: 34077, Start Num: 25

Candidate Starts for Bonino_47:

(Start: 25 @35009 has 109 MA's), (35, 34907), (40, 34862), (41, 34859), (53, 34763), (56, 34721), (57, 34718), (66, 34607), (67, 34598), (78, 34496), (84, 34445), (92, 34367), (95, 34352), (99, 34316), (104, 34208), (109, 34160), (113, 34097),

Gene: Byron23_49 Start: 35316, Stop: 34384, Start Num: 25

Candidate Starts for Byron23_49:

(3, 35496), (4, 35481), (9, 35418), (Start: 25 @35316 has 109 MA's), (35, 35214), (40, 35169), (41, 35166), (56, 35028), (57, 35025), (66, 34914), (67, 34905), (78, 34803), (84, 34752), (92, 34674), (95, 34659), (99, 34623), (104, 34515), (109, 34467), (113, 34404),

Gene: Calix_47 Start: 35016, Stop: 34084, Start Num: 25

Candidate Starts for Calix_47:

(Start: 25 @35016 has 109 MA's), (35, 34914), (40, 34869), (41, 34866), (53, 34770), (56, 34728), (57, 34725), (66, 34614), (67, 34605), (78, 34503), (84, 34452), (92, 34374), (95, 34359), (99, 34323), (104, 34215), (109, 34167), (113, 34104),

Gene: CaptainRex_46 Start: 32725, Stop: 31787, Start Num: 22

Candidate Starts for CaptainRex_46:

(Start: 22 @32725 has 24 MA's), (30, 32689), (32, 32665), (39, 32581), (40, 32578), (50, 32506), (51, 32494), (57, 32431), (58, 32428), (59, 32416), (62, 32398), (72, 32272), (78, 32209), (84, 32158), (92, 32080), (96, 32041), (99, 32029), (106, 31897), (109, 31873), (114, 31807),

Gene: CaptainRex_47 Start: 33696, Stop: 32722, Start Num: 21

Candidate Starts for CaptainRex_47:

(15, 33720), (18, 33711), (Start: 21 @33696 has 22 MA's), (Start: 25 @33684 has 109 MA's), (28, 33663), (33, 33597), (40, 33534), (47, 33477), (49, 33465), (52, 33438), (54, 33426), (56, 33393), (57, 33390), (63, 33327), (71, 33240), (77, 33177), (84, 33114), (88, 33084), (89, 33075), (92, 33036), (103, 32880), (107, 32850), (108, 32829), (110, 32814), (115, 32751),

Gene: Carostasia_45 Start: 33807, Stop: 32875, Start Num: 21

Candidate Starts for Carostasia_45:

(1, 34137), (5, 33939), (6, 33912), (15, 33831), (18, 33822), (Start: 21 @33807 has 22 MA's), (32, 33744), (37, 33678), (40, 33657), (47, 33600), (57, 33516), (66, 33405), (67, 33396), (74, 33345), (76, 33333), (78, 33294), (85, 33240), (86, 33228), (87, 33219), (90, 33186), (91, 33171), (93, 33159), (95, 33150), (97, 33123), (98, 33117), (106, 32982), (109, 32958), (112, 32904),

Gene: Chako_47 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for Chako_47:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: Chamuel_47 Start: 35042, Stop: 34110, Start Num: 25

Candidate Starts for Chamuel_47:

(Start: 25 @35042 has 109 MA's), (35, 34940), (40, 34895), (41, 34892), (53, 34796), (56, 34754), (57, 34751), (66, 34640), (67, 34631), (78, 34529), (84, 34478), (92, 34400), (95, 34385), (99, 34349), (104, 34241), (109, 34193), (113, 34130),

Gene: Cheeto1_48 Start: 34781, Stop: 33852, Start Num: 22

Candidate Starts for Cheeto1_48:

(16, 34802), (Start: 19 @34793 has 1 MA's), (Start: 22 @34781 has 24 MA's), (32, 34721), (35, 34679), (38, 34643), (40, 34634), (57, 34493), (78, 34271), (85, 34217), (86, 34205), (92, 34142), (95, 34127), (99, 34091), (104, 33983), (109, 33935),

Gene: ChickenKing_46 Start: 34674, Stop: 33745, Start Num: 22

Candidate Starts for ChickenKing_46:

(16, 34695), (Start: 19 @34686 has 1 MA's), (Start: 22 @34674 has 24 MA's), (32, 34614), (35, 34572), (38, 34536), (40, 34527), (57, 34386), (60, 34362), (78, 34164), (85, 34110), (86, 34098), (92, 34035), (95, 34020), (99, 33984), (104, 33876), (109, 33828),

Gene: ChikPic_46 Start: 34098, Stop: 33148, Start Num: 22

Candidate Starts for ChikPic_46:

(16, 34119), (Start: 19 @34110 has 1 MA's), (Start: 22 @34098 has 24 MA's), (32, 34038), (35, 33996), (39, 33954), (40, 33951), (41, 33948), (46, 33897), (52, 33858), (66, 33699), (67, 33690), (71, 33663), (72, 33651), (81, 33564), (84, 33534), (85, 33531), (86, 33519), (88, 33504), (89, 33495), (91, 33462), (92, 33456), (99, 33405), (101, 33345), (104, 33300), (109, 33252), (114, 33186),

Gene: Christoph_47 Start: 35029, Stop: 34097, Start Num: 25

Candidate Starts for Christoph_47:

(Start: 25 @35029 has 109 MA's), (35, 34927), (40, 34882), (41, 34879), (53, 34783), (56, 34741), (57, 34738), (66, 34627), (67, 34618), (78, 34516), (84, 34465), (92, 34387), (95, 34372), (99, 34336), (104, 34228), (109, 34180), (113, 34117),

Gene: Clancy_47 Start: 35065, Stop: 34133, Start Num: 25

Candidate Starts for Clancy_47:

(Start: 25 @35065 has 109 MA's), (35, 34963), (40, 34918), (41, 34915), (56, 34777), (57, 34774), (66, 34663), (67, 34654), (78, 34552), (92, 34423), (95, 34408), (99, 34372), (104, 34264), (109, 34216), (113, 34153),

Gene: Clock_45 Start: 35450, Stop: 34515, Start Num: 21

Candidate Starts for Clock_45:

(14, 35492), (Start: 21 @35450 has 22 MA's), (38, 35309), (40, 35300), (41, 35297), (46, 35246), (51, 35219), (56, 35159), (57, 35156), (58, 35153), (59, 35141), (62, 35123), (71, 35009), (72, 34997), (78, 34934), (82, 34910), (92, 34805), (99, 34754), (106, 34622), (109, 34598), (114, 34532),

Gene: ColaCorta_46 Start: 34244, Stop: 33294, Start Num: 22

Candidate Starts for ColaCorta_46:

(16, 34265), (Start: 19 @34256 has 1 MA's), (Start: 22 @34244 has 24 MA's), (32, 34184), (35, 34142), (40, 34097), (43, 34085), (46, 34043), (52, 34004), (66, 33845), (67, 33836), (71, 33809), (72, 33797), (81, 33710), (84, 33680), (85, 33677), (86, 33665), (88, 33650), (89, 33641), (91, 33608), (92, 33602), (99, 33551), (101, 33491), (104, 33446), (109, 33398), (114, 33332),

Gene: Convict_48 Start: 35314, Stop: 34382, Start Num: 25

Candidate Starts for Convict_48:

(Start: 25 @35314 has 109 MA's), (35, 35212), (40, 35167), (41, 35164), (56, 35026), (57, 35023), (66, 34912), (67, 34903), (78, 34801), (92, 34672), (95, 34657), (99, 34621), (104, 34513), (109, 34465),

Gene: Dave_48 Start: 35308, Stop: 34376, Start Num: 25

Candidate Starts for Dave_48:

(3, 35488), (4, 35473), (9, 35410), (Start: 25 @35308 has 109 MA's), (35, 35206), (40, 35161), (41, 35158), (56, 35020), (57, 35017), (66, 34906), (67, 34897), (78, 34795), (92, 34666), (95, 34651), (99, 34615), (104, 34507), (109, 34459), (113, 34396),

Gene: Delphidian_48 Start: 35316, Stop: 34384, Start Num: 25

Candidate Starts for Delphidian_48:

(3, 35496), (4, 35481), (9, 35418), (Start: 25 @35316 has 109 MA's), (35, 35214), (40, 35169), (41, 35166), (56, 35028), (57, 35025), (66, 34914), (67, 34905), (78, 34803), (92, 34674), (95, 34659), (99, 34623), (104, 34515), (109, 34467), (113, 34404),

Gene: Den3_48 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for Den3_48:

(Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470),

Gene: Dothraki_48 Start: 35316, Stop: 34384, Start Num: 25

Candidate Starts for Dothraki_48:

(3, 35496), (4, 35481), (9, 35418), (Start: 25 @35316 has 109 MA's), (35, 35214), (40, 35169), (41, 35166), (56, 35028), (57, 35025), (66, 34914), (67, 34905), (78, 34803), (84, 34752), (92, 34674), (95, 34659), (99, 34623), (104, 34515), (109, 34467), (113, 34404),

Gene: Duocatuli_47 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for Duocatuli_47:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (84, 34456), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: Eleri_46 Start: 34088, Stop: 33138, Start Num: 22

Candidate Starts for Eleri_46:

(16, 34109), (Start: 19 @34100 has 1 MA's), (Start: 22 @34088 has 24 MA's), (32, 34028), (35, 33986), (40, 33941), (43, 33929), (46, 33887), (52, 33848), (66, 33689), (67, 33680), (71, 33653), (72, 33641), (81, 33554), (84, 33524), (85, 33521), (86, 33509), (88, 33494), (89, 33485), (91, 33452), (92, 33446), (99, 33395), (101, 33335), (104, 33290), (109, 33242), (114, 33176),

Gene: Endor_49 Start: 35511, Stop: 34579, Start Num: 25

Candidate Starts for Endor_49:

(Start: 25 @35511 has 109 MA's), (35, 35409), (37, 35385), (38, 35373), (40, 35364), (47, 35307), (53, 35265), (56, 35223), (57, 35220), (60, 35196), (66, 35109), (67, 35100), (78, 34998), (92, 34869), (95, 34854), (99, 34818), (104, 34710), (109, 34662),

Gene: Erla_47 Start: 35013, Stop: 34081, Start Num: 25

Candidate Starts for Erla_47:

(Start: 25 @35013 has 109 MA's), (35, 34911), (40, 34866), (41, 34863), (53, 34767), (56, 34725), (57, 34722), (66, 34611), (67, 34602), (78, 34500), (84, 34449), (92, 34371), (95, 34356), (99, 34320), (104, 34212), (109, 34164), (113, 34101),

Gene: Espinosa_47 Start: 35028, Stop: 34096, Start Num: 25

Candidate Starts for Espinosa_47:

(Start: 25 @35028 has 109 MA's), (35, 34926), (40, 34881), (41, 34878), (53, 34782), (56, 34740), (57, 34737), (66, 34626), (67, 34617), (78, 34515), (84, 34464), (92, 34386), (95, 34371), (99, 34335), (104, 34227), (109, 34179), (113, 34116),

Gene: Etna_48 Start: 35332, Stop: 34400, Start Num: 25

Candidate Starts for Etna_48:

(Start: 17 @35353 has 5 MA's), (Start: 25 @35332 has 109 MA's), (32, 35272), (35, 35230), (36, 35212), (37, 35206), (38, 35194), (56, 35044), (57, 35041), (60, 35017), (66, 34930), (67, 34921), (78, 34819), (86, 34753), (92, 34690), (95, 34675), (104, 34531), (109, 34483),

Gene: Etta_47 Start: 35017, Stop: 34085, Start Num: 25

Candidate Starts for Etta_47:

(Start: 25 @35017 has 109 MA's), (35, 34915), (40, 34870), (41, 34867), (53, 34771), (56, 34729), (57, 34726), (66, 34615), (67, 34606), (78, 34504), (92, 34375), (95, 34360), (99, 34324), (104, 34216), (109, 34168), (113, 34105),

Gene: FarmerDoug_47 Start: 35017, Stop: 34085, Start Num: 25

Candidate Starts for FarmerDoug_47:

(11, 35086), (15, 35047), (Start: 25 @35017 has 109 MA's), (35, 34915), (40, 34870), (56, 34729), (57, 34726), (66, 34615), (67, 34606), (78, 34504), (86, 34438), (92, 34375), (95, 34360), (104, 34216), (109, 34168),

Gene: Figueroism_48 Start: 35307, Stop: 34375, Start Num: 25

Candidate Starts for Figueroism_48:

(Start: 25 @35307 has 109 MA's), (35, 35205), (40, 35160), (41, 35157), (56, 35019), (57, 35016), (66, 34905), (67, 34896), (78, 34794), (84, 34743), (92, 34665), (95, 34650), (99, 34614), (104, 34506), (109, 34458), (113, 34395),

Gene: Finny_47 Start: 34082, Stop: 33132, Start Num: 22

Candidate Starts for Finny_47:

(16, 34103), (Start: 19 @34094 has 1 MA's), (Start: 22 @34082 has 24 MA's), (32, 34022), (35, 33980), (39, 33938), (40, 33935), (41, 33932), (46, 33881), (52, 33842), (66, 33683), (67, 33674), (71, 33647), (72, 33635), (78, 33572), (81, 33548), (84, 33518), (85, 33515), (86, 33503), (88, 33488), (89, 33479), (91, 33446), (92, 33440), (99, 33389), (100, 33338), (101, 33329), (104, 33284), (109, 33236),

(114, 33170),

Gene: Fulton_46 Start: 32726, Stop: 31788, Start Num: 22

Candidate Starts for Fulton_46:

(Start: 22 @32726 has 24 MA's), (30, 32690), (32, 32666), (39, 32582), (40, 32579), (50, 32507), (51, 32495), (56, 32435), (57, 32432), (58, 32429), (59, 32417), (62, 32399), (72, 32273), (78, 32210), (84, 32159), (92, 32081), (96, 32042), (99, 32030), (106, 31898), (109, 31874), (114, 31808),

Gene: Fulton_47 Start: 33697, Stop: 32723, Start Num: 21

Candidate Starts for Fulton_47:

(15, 33721), (18, 33712), (Start: 21 @33697 has 22 MA's), (Start: 25 @33685 has 109 MA's), (28, 33664), (33, 33598), (40, 33535), (47, 33478), (49, 33466), (52, 33439), (54, 33427), (56, 33394), (57, 33391), (63, 33328), (71, 33241), (77, 33178), (84, 33115), (88, 33085), (89, 33076), (92, 33037), (103, 32881), (107, 32851), (108, 32830), (110, 32815), (115, 32752),

Gene: GaeCeo_48 Start: 34907, Stop: 33978, Start Num: 22

Candidate Starts for GaeCeo_48:

(16, 34928), (Start: 19 @34919 has 1 MA's), (Start: 22 @34907 has 24 MA's), (32, 34847), (35, 34805), (38, 34769), (40, 34760), (57, 34619), (60, 34595), (78, 34397), (85, 34343), (86, 34331), (92, 34268), (95, 34253), (99, 34217), (104, 34109), (109, 34061),

Gene: GardenB_48 Start: 35273, Stop: 34341, Start Num: 25

Candidate Starts for GardenB_48:

(10, 35363), (Start: 25 @35273 has 109 MA's), (32, 35213), (35, 35171), (37, 35147), (38, 35135), (40, 35126), (53, 35027), (56, 34985), (57, 34982), (66, 34871), (67, 34862), (78, 34760), (85, 34706), (86, 34694), (92, 34631), (95, 34616), (99, 34580), (104, 34472), (109, 34424),

Gene: Garey24_48 Start: 34996, Stop: 34064, Start Num: 25

Candidate Starts for Garey24_48:

(Start: 25 @34996 has 109 MA's), (35, 34894), (40, 34849), (41, 34846), (53, 34750), (56, 34708), (57, 34705), (66, 34594), (67, 34585), (78, 34483), (84, 34432), (92, 34354), (95, 34339), (99, 34303), (104, 34195), (109, 34147), (113, 34084),

Gene: Gargoyle_48 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for Gargoyle_48:

(Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470),

Gene: Gelo_47 Start: 35023, Stop: 34091, Start Num: 25

Candidate Starts for Gelo_47:

(Start: 25 @35023 has 109 MA's), (35, 34921), (40, 34876), (41, 34873), (53, 34777), (56, 34735), (57, 34732), (66, 34621), (67, 34612), (78, 34510), (84, 34459), (92, 34381), (95, 34366), (99, 34330), (104, 34222), (109, 34174), (113, 34111),

Gene: Gershwin_47 Start: 35030, Stop: 34098, Start Num: 25

Candidate Starts for Gershwin_47:

(Start: 25 @35030 has 109 MA's), (35, 34928), (40, 34883), (41, 34880), (53, 34784), (56, 34742), (57, 34739), (66, 34628), (67, 34619), (78, 34517), (84, 34466), (92, 34388), (95, 34373), (99, 34337), (104, 34229), (109, 34181), (113, 34118),

Gene: Glamour_46 Start: 34236, Stop: 33286, Start Num: 22

Candidate Starts for Glamour_46:

(16, 34257), (Start: 19 @34248 has 1 MA's), (Start: 22 @34236 has 24 MA's), (32, 34176), (35, 34134), (40, 34089), (43, 34077), (46, 34035), (52, 33996), (66, 33837), (67, 33828), (71, 33801), (72, 33789), (81, 33702), (84, 33672), (85, 33669), (86, 33657), (88, 33642), (89, 33633), (91, 33600), (92, 33594), (99, 33543), (101, 33483), (104, 33438), (109, 33390), (114, 33324),

Gene: Greenlvy_45 Start: 33081, Stop: 32143, Start Num: 22

Candidate Starts for Greenlvy_45:

(Start: 22 @33081 has 24 MA's), (30, 33045), (32, 33021), (39, 32937), (40, 32934), (50, 32862), (56, 32790), (57, 32787), (58, 32784), (59, 32772), (62, 32754), (72, 32628), (78, 32565), (84, 32514), (92, 32436), (96, 32397), (99, 32385), (106, 32253), (109, 32229), (114, 32163),

Gene: Greenlvy_46 Start: 34052, Stop: 33078, Start Num: 21

Candidate Starts for Greenlvy_46:

(15, 34076), (18, 34067), (Start: 21 @34052 has 22 MA's), (Start: 25 @34040 has 109 MA's), (28, 34019), (33, 33953), (40, 33890), (47, 33833), (49, 33821), (52, 33794), (54, 33782), (56, 33749), (57, 33746), (63, 33683), (71, 33596), (77, 33533), (83, 33476), (84, 33470), (88, 33440), (89, 33431), (92, 33392), (103, 33236), (107, 33206), (108, 33185), (110, 33170), (113, 33119), (115, 33107), (116, 33083),

Gene: Greys_48 Start: 35315, Stop: 34383, Start Num: 25

Candidate Starts for Greys_48:

(Start: 25 @35315 has 109 MA's), (35, 35213), (40, 35168), (41, 35165), (56, 35027), (57, 35024), (66, 34913), (67, 34904), (78, 34802), (92, 34673), (95, 34658), (99, 34622), (104, 34514), (109, 34466), (113, 34403),

Gene: Gubbabump_47 Start: 35010, Stop: 34078, Start Num: 25

Candidate Starts for Gubbabump_47:

(Start: 25 @35010 has 109 MA's), (35, 34908), (40, 34863), (41, 34860), (53, 34764), (56, 34722), (57, 34719), (66, 34608), (67, 34599), (78, 34497), (84, 34446), (92, 34368), (95, 34353), (99, 34317), (104, 34209), (109, 34161), (113, 34098),

Gene: Hamlet_48 Start: 35277, Stop: 34345, Start Num: 25

Candidate Starts for Hamlet_48:

(Start: 17 @35298 has 5 MA's), (Start: 25 @35277 has 109 MA's), (32, 35217), (35, 35175), (36, 35157), (37, 35151), (38, 35139), (40, 35130), (53, 35031), (56, 34989), (57, 34986), (60, 34962), (66, 34875), (67, 34866), (78, 34764), (86, 34698), (92, 34635), (95, 34620), (104, 34476), (109, 34428),

Gene: HanSolo_47 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for HanSolo_47:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: HankSprout_48 Start: 34897, Stop: 33965, Start Num: 25

Candidate Starts for HankSprout_48:

(Start: 25 @34897 has 109 MA's), (35, 34795), (40, 34750), (41, 34747), (56, 34609), (57, 34606), (66, 34495), (67, 34486), (78, 34384), (84, 34333), (92, 34255), (95, 34240), (99, 34204), (104, 34096), (109, 34048), (113, 33985),

Gene: Hasitha_46 Start: 32738, Stop: 31800, Start Num: 22

Candidate Starts for Hasitha_46:

(Start: 22 @32738 has 24 MA's), (30, 32702), (32, 32678), (39, 32594), (40, 32591), (50, 32519), (51, 32507), (57, 32444), (58, 32441), (59, 32429), (62, 32411), (72, 32285), (78, 32222), (84, 32171), (92,

32093), (96, 32054), (99, 32042), (106, 31910), (109, 31886), (114, 31820),

Gene: Hasitha_47 Start: 33709, Stop: 32735, Start Num: 21

Candidate Starts for Hasitha_47:

(15, 33733), (18, 33724), (Start: 21 @33709 has 22 MA's), (Start: 25 @33697 has 109 MA's), (28, 33676), (33, 33610), (40, 33547), (47, 33490), (49, 33478), (52, 33451), (54, 33439), (56, 33406), (57, 33403), (63, 33340), (71, 33253), (77, 33190), (84, 33127), (88, 33097), (89, 33088), (92, 33049), (103, 32893), (107, 32863), (108, 32842), (110, 32827), (115, 32764),

Gene: HerculesXL_44 Start: 32838, Stop: 31888, Start Num: 21

Candidate Starts for HerculesXL_44:

(8, 32940), (9, 32937), (Start: 21 @32838 has 22 MA's), (32, 32775), (35, 32733), (38, 32697), (52, 32595), (57, 32547), (67, 32430), (71, 32403), (72, 32391), (78, 32328), (81, 32304), (84, 32274), (85, 32271), (86, 32259), (88, 32244), (89, 32235), (92, 32196), (99, 32145), (104, 32040), (114, 31926),

Gene: HungryHenry_47 Start: 35025, Stop: 34093, Start Num: 25

Candidate Starts for HungryHenry_47:

(Start: 25 @35025 has 109 MA's), (35, 34923), (40, 34878), (41, 34875), (56, 34737), (57, 34734), (66, 34623), (67, 34614), (78, 34512), (92, 34383), (95, 34368), (99, 34332), (104, 34224), (109, 34176), (113, 34113),

Gene: Ilzat_47 Start: 35036, Stop: 34104, Start Num: 25

Candidate Starts for Ilzat_47:

(Start: 25 @35036 has 109 MA's), (35, 34934), (40, 34889), (41, 34886), (56, 34748), (57, 34745), (66, 34634), (67, 34625), (78, 34523), (92, 34394), (95, 34379), (99, 34343), (104, 34235), (109, 34187), (113, 34124),

Gene: Inventa_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for Inventa_48:

(3, 35493), (4, 35478), (9, 35415), (Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: loannes_48 Start: 35317, Stop: 34385, Start Num: 25

Candidate Starts for loannes_48:

(Start: 25 @35317 has 109 MA's), (35, 35215), (40, 35170), (41, 35167), (56, 35029), (57, 35026), (66, 34915), (67, 34906), (78, 34804), (84, 34753), (92, 34675), (95, 34660), (99, 34624), (104, 34516), (109, 34468), (113, 34405),

Gene: Ixel_47 Start: 34521, Stop: 33565, Start Num: 21

Candidate Starts for Ixel_47:

(12, 34578), (Start: 21 @34521 has 22 MA's), (32, 34458), (35, 34416), (38, 34380), (52, 34278), (57, 34230), (66, 34116), (67, 34107), (71, 34080), (81, 33981), (85, 33948), (86, 33936), (88, 33921), (89, 33912), (92, 33873), (105, 33699), (114, 33603),

Gene: Janus167_47 Start: 35050, Stop: 34085, Start Num: 23

Candidate Starts for Janus167_47:

(Start: 23 @35050 has 2 MA's), (29, 34996), (31, 34972), (35, 34915), (37, 34891), (40, 34870), (44, 34852), (53, 34771), (56, 34729), (57, 34726), (64, 34648), (65, 34636), (67, 34606), (70, 34582), (71, 34579), (84, 34453), (92, 34375), (95, 34360), (99, 34324), (104, 34216), (109, 34168), (113, 34105),

Gene: JasonD_52 Start: 35414, Stop: 34479, Start Num: 20

Candidate Starts for JasonD_52:

(Start: 20 @35414 has 2 MA's), (35, 35309), (40, 35264), (56, 35123), (57, 35120), (70, 34976), (78, 34898), (84, 34847), (85, 34844), (92, 34769), (95, 34754), (99, 34718), (104, 34610), (109, 34562),

Gene: JasperRussell_47 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for JasperRussell_47:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: Jemerald_47 Start: 34687, Stop: 33734, Start Num: 19

Candidate Starts for Jemerald_47:

(16, 34696), (Start: 19 @34687 has 1 MA's), (Start: 22 @34675 has 24 MA's), (32, 34615), (38, 34537), (42, 34522), (45, 34507), (52, 34435), (55, 34405), (56, 34390), (57, 34387), (67, 34264), (69, 34246), (71, 34237), (75, 34204), (85, 34108), (88, 34081), (89, 34072), (91, 34039), (92, 34033), (94, 34021), (96, 33994), (104, 33877), (105, 33859), (106, 33853), (109, 33829), (110, 33817),

Gene: Jenos_51 Start: 36143, Stop: 35208, Start Num: 20

Candidate Starts for Jenos_51:

(Start: 20 @36143 has 2 MA's), (35, 36038), (40, 35993), (56, 35852), (57, 35849), (70, 35705), (78, 35627), (84, 35576), (85, 35573), (92, 35498), (95, 35483), (99, 35447), (104, 35339), (109, 35291),

Gene: Jerbirus_49 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for Jerbirus_49:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (53, 34774), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (84, 34456), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: JeriBeth_49 Start: 34883, Stop: 33951, Start Num: 25

Candidate Starts for JeriBeth_49:

(Start: 25 @34883 has 109 MA's), (35, 34781), (40, 34736), (41, 34733), (56, 34595), (57, 34592), (66, 34481), (67, 34472), (78, 34370), (92, 34241), (95, 34226), (99, 34190), (104, 34082), (109, 34034), (113, 33971),

Gene: Juicer_47 Start: 34675, Stop: 33734, Start Num: 22

Candidate Starts for Juicer_47:

(16, 34696), (Start: 19 @34687 has 1 MA's), (Start: 22 @34675 has 24 MA's), (32, 34615), (38, 34537), (42, 34522), (45, 34507), (52, 34435), (55, 34405), (56, 34390), (57, 34387), (67, 34264), (69, 34246), (71, 34237), (75, 34204), (85, 34108), (88, 34081), (89, 34072), (91, 34039), (92, 34033), (94, 34021), (96, 33994), (104, 33877), (105, 33859), (106, 33853), (109, 33829), (110, 33817),

Gene: Kale_47 Start: 35032, Stop: 34100, Start Num: 25

Candidate Starts for Kale_47:

(Start: 25 @35032 has 109 MA's), (35, 34930), (40, 34885), (41, 34882), (53, 34786), (56, 34744), (57, 34741), (66, 34630), (67, 34621), (78, 34519), (84, 34468), (92, 34390), (95, 34375), (99, 34339), (104, 34231), (109, 34183), (113, 34120),

Gene: KannH_47 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for KannH_47:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: KingJulien_48 Start: 35189, Stop: 34236, Start Num: 17

Candidate Starts for KingJulien_48:

(Start: 17 @35189 has 5 MA's), (Start: 25 @35168 has 109 MA's), (32, 35108), (35, 35066), (36, 35048), (37, 35042), (38, 35030), (56, 34880), (57, 34877), (60, 34853), (66, 34766), (67, 34757), (78, 34655), (86, 34589), (92, 34526), (95, 34511), (104, 34367), (109, 34319),

Gene: Klimt_48 Start: 35048, Stop: 34116, Start Num: 25

Candidate Starts for Klimt_48:

(Start: 25 @35048 has 109 MA's), (35, 34946), (40, 34901), (41, 34898), (53, 34802), (56, 34760), (57, 34757), (66, 34646), (67, 34637), (78, 34535), (84, 34484), (92, 34406), (95, 34391), (99, 34355), (104, 34247), (109, 34199), (113, 34136),

Gene: Knox_48 Start: 35314, Stop: 34382, Start Num: 25

Candidate Starts for Knox_48:

(Start: 25 @35314 has 109 MA's), (35, 35212), (40, 35167), (41, 35164), (56, 35026), (57, 35023), (66, 34912), (67, 34903), (78, 34801), (92, 34672), (95, 34657), (99, 34621), (104, 34513), (109, 34465),

Gene: Kurt1_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for Kurt1_48:

(3, 35493), (4, 35478), (9, 35415), (Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: Leafus_48 Start: 35452, Stop: 34499, Start Num: 17

Candidate Starts for Leafus_48:

(Start: 17 @35452 has 5 MA's), (Start: 25 @35431 has 109 MA's), (32, 35371), (35, 35329), (36, 35311), (37, 35305), (38, 35293), (40, 35284), (53, 35185), (56, 35143), (57, 35140), (60, 35116), (66, 35029), (67, 35020), (78, 34918), (86, 34852), (92, 34789), (95, 34774), (104, 34630), (109, 34582),

Gene: Librie_47 Start: 33696, Stop: 32722, Start Num: 21

Candidate Starts for Librie_47:

(15, 33720), (18, 33711), (Start: 21 @33696 has 22 MA's), (Start: 25 @33684 has 109 MA's), (28, 33663), (33, 33597), (40, 33534), (47, 33477), (49, 33465), (52, 33438), (54, 33426), (56, 33393), (57, 33390), (63, 33327), (71, 33240), (77, 33177), (84, 33114), (88, 33084), (89, 33075), (92, 33036), (103, 32880), (107, 32850), (108, 32829), (110, 32814), (115, 32751),

Gene: Librie_46 Start: 32725, Stop: 31787, Start Num: 22

Candidate Starts for Librie_46:

(Start: 22 @32725 has 24 MA's), (30, 32689), (32, 32665), (39, 32581), (40, 32578), (50, 32506), (51, 32494), (57, 32431), (58, 32428), (59, 32416), (62, 32398), (72, 32272), (78, 32209), (84, 32158), (92, 32080), (96, 32041), (99, 32029), (106, 31897), (109, 31873), (114, 31807),

Gene: LilTerminator_46 Start: 32747, Stop: 31809, Start Num: 22

Candidate Starts for LilTerminator_46:

(Start: 22 @32747 has 24 MA's), (30, 32711), (32, 32687), (39, 32603), (40, 32600), (50, 32528), (51, 32516), (56, 32456), (57, 32453), (58, 32450), (59, 32438), (62, 32420), (72, 32294), (78, 32231), (84, 32180), (92, 32102), (96, 32063), (99, 32051), (106, 31919), (109, 31895), (114, 31829),

Gene: LilTerminator_47 Start: 33718, Stop: 32744, Start Num: 21

Candidate Starts for LilTerminator_47:

(15, 33742), (18, 33733), (Start: 21 @33718 has 22 MA's), (Start: 25 @33706 has 109 MA's), (28, 33685), (33, 33619), (40, 33556), (47, 33499), (49, 33487), (52, 33460), (54, 33448), (56, 33415), (57, 33412), (63, 33349), (71, 33262), (77, 33199), (84, 33136), (88, 33106), (89, 33097), (92, 33058), (103, 32902), (105, 32881), (107, 32872), (108, 32851), (110, 32836), (113, 32785), (115, 32773),

Gene: Lovelyunicorn_48 Start: 35315, Stop: 34383, Start Num: 25

Candidate Starts for Lovelyunicorn_48:

(Start: 25 @35315 has 109 MA's), (35, 35213), (40, 35168), (41, 35165), (56, 35027), (57, 35024), (66, 34913), (67, 34904), (78, 34802), (92, 34673), (95, 34658), (99, 34622), (104, 34514), (109, 34466),

Gene: Ludgate_48 Start: 35316, Stop: 34384, Start Num: 25

Candidate Starts for Ludgate_48:

(Start: 25 @35316 has 109 MA's), (35, 35214), (40, 35169), (41, 35166), (56, 35028), (57, 35025), (66, 34914), (67, 34905), (78, 34803), (92, 34674), (95, 34659), (99, 34623), (104, 34515), (109, 34467), (113, 34404),

Gene: MCubed_46 Start: 34113, Stop: 33163, Start Num: 22

Candidate Starts for MCubed_46:

(16, 34134), (Start: 19 @34125 has 1 MA's), (Start: 22 @34113 has 24 MA's), (32, 34053), (35, 34011), (39, 33969), (40, 33966), (41, 33963), (46, 33912), (52, 33873), (66, 33714), (67, 33705), (71, 33678), (72, 33666), (78, 33603), (81, 33579), (84, 33549), (85, 33546), (86, 33534), (88, 33519), (89, 33510), (91, 33477), (92, 33471), (99, 33420), (100, 33369), (101, 33360), (104, 33315), (109, 33267), (114, 33201),

Gene: MaeLinda_48 Start: 35317, Stop: 34385, Start Num: 25

Candidate Starts for MaeLinda_48:

(3, 35497), (4, 35482), (9, 35419), (Start: 25 @35317 has 109 MA's), (35, 35215), (40, 35170), (41, 35167), (56, 35029), (57, 35026), (66, 34915), (67, 34906), (78, 34804), (84, 34753), (92, 34675), (95, 34660), (99, 34624), (104, 34516), (109, 34468), (113, 34405),

Gene: ManRay_47 Start: 35030, Stop: 34098, Start Num: 25

Candidate Starts for ManRay_47:

(Start: 25 @35030 has 109 MA's), (35, 34928), (40, 34883), (41, 34880), (53, 34784), (56, 34742), (57, 34739), (66, 34628), (67, 34619), (78, 34517), (84, 34466), (92, 34388), (95, 34373), (99, 34337), (104, 34229), (109, 34181), (113, 34118),

Gene: Mandalorian_45 Start: 33817, Stop: 32885, Start Num: 21

Candidate Starts for Mandalorian_45:

(1, 34147), (2, 34129), (5, 33949), (6, 33922), (15, 33841), (18, 33832), (Start: 21 @33817 has 22 MA's), (32, 33754), (37, 33688), (40, 33667), (47, 33610), (57, 33526), (66, 33415), (67, 33406), (74, 33355), (76, 33343), (78, 33304), (85, 33250), (86, 33238), (87, 33229), (90, 33196), (91, 33181), (93, 33169), (95, 33160), (97, 33133), (98, 33127), (106, 32992), (109, 32968), (112, 32914),

Gene: Martin_49 Start: 35322, Stop: 34390, Start Num: 25

Candidate Starts for Martin_49:

(3, 35502), (4, 35487), (9, 35424), (Start: 25 @35322 has 109 MA's), (35, 35220), (40, 35175), (41, 35172), (56, 35034), (57, 35031), (66, 34920), (67, 34911), (78, 34809), (84, 34758), (92, 34680), (95, 34665), (99, 34629), (104, 34521), (109, 34473), (113, 34410),

Gene: McGalleon_50 Start: 36335, Stop: 35370, Start Num: 20

Candidate Starts for McGalleon_50:

(Start: 20 @36335 has 2 MA's), (35, 36200), (40, 36155), (41, 36152), (57, 36011), (60, 35987), (71, 35864), (72, 35852), (78, 35789), (84, 35738), (85, 35735), (92, 35660), (95, 35645), (99, 35609), (104, 35501), (109, 35453),

Gene: Mercedes_42 Start: 33681, Stop: 32713, Start Num: 21

Candidate Starts for Mercedes_42:

(15, 33705), (Start: 21 @33681 has 22 MA's), (Start: 25 @33669 has 109 MA's), (28, 33648), (32, 33606), (37, 33540), (40, 33519), (47, 33462), (52, 33423), (56, 33378), (57, 33375), (60, 33351), (61, 33345), (62, 33342), (71, 33228), (77, 33165), (79, 33147), (80, 33141), (86, 33087), (88, 33072), (89, 33063), (92, 33024), (102, 32877), (103, 32868), (113, 32751), (115, 32739),

Gene: Mercedes_41 Start: 32713, Stop: 31778, Start Num: 22

Candidate Starts for Mercedes_41:

(Start: 22 @32713 has 24 MA's), (29, 32692), (32, 32653), (34, 32620), (37, 32587), (41, 32563), (57, 32422), (58, 32419), (59, 32407), (62, 32389), (72, 32263), (73, 32254), (78, 32200), (84, 32149), (91, 32077), (92, 32071), (96, 32032), (99, 32020), (106, 31888), (109, 31864), (114, 31798),

Gene: MillyPhilly_48 Start: 35310, Stop: 34378, Start Num: 25

Candidate Starts for MillyPhilly_48:

(3, 35490), (4, 35475), (9, 35412), (Start: 25 @35310 has 109 MA's), (35, 35208), (40, 35163), (41, 35160), (56, 35022), (57, 35019), (66, 34908), (67, 34899), (78, 34797), (84, 34746), (92, 34668), (95, 34653), (99, 34617), (104, 34509), (109, 34461), (113, 34398),

Gene: MonChoix_45 Start: 34865, Stop: 33933, Start Num: 25

Candidate Starts for MonChoix_45:

(Start: 25 @34865 has 109 MA's), (35, 34763), (40, 34718), (47, 34661), (56, 34577), (57, 34574), (60, 34550), (66, 34463), (67, 34454), (78, 34352), (85, 34298), (86, 34286), (92, 34223), (95, 34208), (99, 34172), (104, 34064), (109, 34016),

Gene: MrWorldwide_48 Start: 35320, Stop: 34388, Start Num: 25

Candidate Starts for MrWorldwide_48:

(3, 35500), (4, 35485), (9, 35422), (Start: 25 @35320 has 109 MA's), (35, 35218), (40, 35173), (41, 35170), (56, 35032), (57, 35029), (66, 34918), (67, 34909), (78, 34807), (84, 34756), (92, 34678), (95, 34663), (99, 34627), (104, 34519), (109, 34471), (113, 34408),

Gene: Nagem_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for Nagem_48:

(Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (53, 35067), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: Nattles_47 Start: 35017, Stop: 34085, Start Num: 25

Candidate Starts for Nattles_47:

(Start: 25 @35017 has 109 MA's), (35, 34915), (40, 34870), (41, 34867), (53, 34771), (56, 34729), (57, 34726), (66, 34615), (67, 34606), (78, 34504), (84, 34453), (92, 34375), (95, 34360), (99, 34324), (104, 34216), (109, 34168), (113, 34105),

Gene: Nebulous_44 Start: 35631, Stop: 34696, Start Num: 21

Candidate Starts for Nebulous_44:

(14, 35673), (Start: 21 @35631 has 22 MA's), (38, 35490), (40, 35481), (41, 35478), (46, 35427), (51, 35400), (56, 35340), (57, 35337), (58, 35334), (59, 35322), (62, 35304), (71, 35190), (72, 35178), (78, 35115), (82, 35091), (92, 34986), (99, 34935), (106, 34803), (109, 34779), (114, 34713),

Gene: Neferthema_47 Start: 34968, Stop: 34033, Start Num: 21

Candidate Starts for Neferthema_47:

(15, 34992), (Start: 21 @34968 has 22 MA's), (38, 34827), (41, 34815), (46, 34764), (51, 34737), (56, 34677), (57, 34674), (58, 34671), (59, 34659), (62, 34641), (71, 34527), (72, 34515), (78, 34452), (82, 34428), (92, 34323), (99, 34272), (106, 34140), (109, 34116), (114, 34050),

Gene: NickSell_48 Start: 35323, Stop: 34391, Start Num: 25

Candidate Starts for NickSell_48:

(3, 35503), (4, 35488), (9, 35425), (Start: 25 @35323 has 109 MA's), (35, 35221), (40, 35176), (41, 35173), (56, 35035), (57, 35032), (66, 34921), (67, 34912), (78, 34810), (84, 34759), (92, 34681), (95, 34666), (99, 34630), (104, 34522), (109, 34474), (113, 34411),

Gene: Nucci_45 Start: 33800, Stop: 32868, Start Num: 21

Candidate Starts for Nucci_45:

(1, 34130), (5, 33932), (6, 33905), (15, 33824), (18, 33815), (Start: 21 @33800 has 22 MA's), (32, 33737), (37, 33671), (40, 33650), (47, 33593), (57, 33509), (66, 33398), (67, 33389), (74, 33338), (76, 33326), (78, 33287), (85, 33233), (86, 33221), (87, 33212), (90, 33179), (91, 33164), (93, 33152), (95, 33143), (97, 33116), (98, 33110), (106, 32975), (109, 32951), (112, 32897),

Gene: Oats_47 Start: 35030, Stop: 34098, Start Num: 25

Candidate Starts for Oats_47:

(Start: 25 @35030 has 109 MA's), (35, 34928), (40, 34883), (41, 34880), (53, 34784), (56, 34742), (57, 34739), (66, 34628), (67, 34619), (78, 34517), (84, 34466), (92, 34388), (95, 34373), (99, 34337), (104, 34229), (109, 34181), (113, 34118),

Gene: OldNelly_49 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for OldNelly_49:

(3, 35499), (4, 35484), (9, 35421), (Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470), (113, 34407),

Gene: Oxtober96_49 Start: 35315, Stop: 34383, Start Num: 25

Candidate Starts for Oxtober96_49:

(Start: 25 @35315 has 109 MA's), (35, 35213), (40, 35168), (41, 35165), (56, 35027), (57, 35024), (66, 34913), (67, 34904), (78, 34802), (92, 34673), (95, 34658), (99, 34622), (104, 34514), (109, 34466),

Gene: Papafritta_47 Start: 35074, Stop: 34109, Start Num: 23

Candidate Starts for Papafritta_47:

(Start: 23 @35074 has 2 MA's), (29, 35020), (31, 34996), (35, 34939), (37, 34915), (40, 34894), (44, 34876), (53, 34795), (56, 34753), (57, 34750), (64, 34672), (65, 34660), (67, 34630), (70, 34606), (71, 34603), (84, 34477), (92, 34399), (95, 34384), (99, 34348), (104, 34240), (109, 34192), (113, 34129),

Gene: ParleG_48 Start: 35320, Stop: 34388, Start Num: 25

Candidate Starts for ParleG_48:

(3, 35500), (4, 35485), (9, 35422), (Start: 25 @35320 has 109 MA's), (35, 35218), (40, 35173), (41, 35170), (56, 35032), (57, 35029), (66, 34918), (67, 34909), (78, 34807), (84, 34756), (92, 34678), (95, 34663), (99, 34627), (104, 34519), (109, 34471), (113, 34408),

Gene: Peep_48 Start: 35305, Stop: 34373, Start Num: 25

Candidate Starts for Peep_48:

(3, 35485), (4, 35470), (9, 35407), (Start: 25 @35305 has 109 MA's), (35, 35203), (40, 35158), (41, 35155), (56, 35017), (57, 35014), (66, 34903), (67, 34894), (78, 34792), (92, 34663), (95, 34648), (99, 34612), (104, 34504), (109, 34456), (113, 34393),

Gene: Peppino_48 Start: 35298, Stop: 34345, Start Num: 17

Candidate Starts for Peppino_48:

(Start: 17 @35298 has 5 MA's), (Start: 25 @35277 has 109 MA's), (32, 35217), (35, 35175), (36, 35157), (37, 35151), (38, 35139), (40, 35130), (47, 35073), (53, 35031), (56, 34989), (57, 34986), (60, 34962), (66, 34875), (67, 34866), (78, 34764), (86, 34698), (92, 34635), (95, 34620), (104, 34476),

(109, 34428),

Gene: Pherferi_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for Pherferi_48:

(3, 35493), (4, 35478), (9, 35415), (Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: Phiderman_48 Start: 35310, Stop: 34378, Start Num: 25

Candidate Starts for Phiderman_48:

(3, 35490), (4, 35475), (9, 35412), (Start: 25 @35310 has 109 MA's), (35, 35208), (40, 35163), (41, 35160), (56, 35022), (57, 35019), (66, 34908), (67, 34899), (78, 34797), (84, 34746), (92, 34668), (95, 34653), (99, 34617), (104, 34509), (109, 34461), (113, 34398),

Gene: Phireproof_48 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for Phireproof_48:

(3, 35499), (4, 35484), (9, 35421), (Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (84, 34755), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470), (113, 34407),

Gene: PhredFlintston_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for PhredFlintston_48:

(3, 35493), (4, 35478), (9, 35415), (Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: Phriends_48 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for Phriends_48:

(3, 35499), (4, 35484), (9, 35421), (Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470), (113, 34407),

Gene: Pocket_47 Start: 35057, Stop: 34125, Start Num: 25

Candidate Starts for Pocket_47:

(Start: 25 @35057 has 109 MA's), (35, 34955), (40, 34910), (41, 34907), (53, 34811), (56, 34769), (57, 34766), (66, 34655), (67, 34646), (78, 34544), (84, 34493), (92, 34415), (95, 34400), (99, 34364), (104, 34256), (109, 34208), (113, 34145),

Gene: PuppyEggo_48 Start: 35320, Stop: 34388, Start Num: 25

Candidate Starts for PuppyEggo_48:

(Start: 25 @35320 has 109 MA's), (35, 35218), (40, 35173), (41, 35170), (56, 35032), (57, 35029), (66, 34918), (67, 34909), (78, 34807), (92, 34678), (95, 34663), (99, 34627), (104, 34519), (109, 34471), (113, 34408),

Gene: QuadZero_46 Start: 32889, Stop: 31954, Start Num: 22

Candidate Starts for QuadZero_46:

(Start: 22 @32889 has 24 MA's), (30, 32853), (32, 32829), (37, 32763), (56, 32601), (57, 32598), (58, 32595), (59, 32583), (62, 32565), (72, 32439), (78, 32376), (84, 32325), (92, 32247), (96, 32208), (99, 32196), (106, 32064), (109, 32040), (114, 31974),

Gene: QuadZero_47 Start: 33848, Stop: 32886, Start Num: 25

Candidate Starts for QuadZero_47:

(15, 33884), (18, 33875), (Start: 21 @33860 has 22 MA's), (Start: 25 @33848 has 109 MA's), (28, 33827), (33, 33761), (40, 33698), (47, 33641), (49, 33629), (52, 33602), (54, 33590), (56, 33557), (57, 33554), (63, 33491), (71, 33404), (77, 33341), (84, 33278), (86, 33263), (88, 33248), (89, 33239), (92, 33200), (103, 33044), (105, 33023), (108, 32993), (110, 32978), (115, 32915), (116, 32891),

Gene: Quartz_46 Start: 33930, Stop: 32998, Start Num: 21

Candidate Starts for Quartz_46:

(15, 33954), (18, 33945), (Start: 21 @33930 has 22 MA's), (32, 33867), (37, 33801), (40, 33780), (47, 33723), (57, 33639), (66, 33528), (67, 33519), (74, 33468), (76, 33456), (78, 33417), (85, 33363), (86, 33351), (87, 33342), (90, 33309), (91, 33294), (93, 33282), (95, 33273), (97, 33246), (98, 33240), (106, 33105), (109, 33081), (112, 33027),

Gene: Raccoon_48 Start: 35255, Stop: 34302, Start Num: 17

Candidate Starts for Raccoon_48:

(Start: 17 @35255 has 5 MA's), (Start: 25 @35234 has 109 MA's), (32, 35174), (35, 35132), (36, 35114), (37, 35108), (38, 35096), (40, 35087), (53, 34988), (56, 34946), (57, 34943), (60, 34919), (66, 34832), (67, 34823), (78, 34721), (86, 34655), (92, 34592), (95, 34577), (104, 34433), (109, 34385),

Gene: Rapheph_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for Rapheph_48:

(3, 35493), (4, 35478), (9, 35415), (Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: Raptor_48 Start: 35317, Stop: 34385, Start Num: 25

Candidate Starts for Raptor_48:

(Start: 25 @35317 has 109 MA's), (35, 35215), (40, 35170), (41, 35167), (56, 35029), (57, 35026), (66, 34915), (67, 34906), (78, 34804), (92, 34675), (95, 34660), (99, 34624), (104, 34516), (109, 34468),

Gene: Redfield_48 Start: 35285, Stop: 34353, Start Num: 25

Candidate Starts for Redfield_48:

(Start: 17 @35306 has 5 MA's), (Start: 25 @35285 has 109 MA's), (32, 35225), (35, 35183), (36, 35165), (37, 35159), (38, 35147), (40, 35138), (47, 35081), (53, 35039), (56, 34997), (57, 34994), (60, 34970), (66, 34883), (67, 34874), (68, 34865), (78, 34772), (86, 34706), (92, 34643), (95, 34628), (104, 34484), (109, 34436),

Gene: Renzie_48 Start: 35308, Stop: 34376, Start Num: 25

Candidate Starts for Renzie_48:

(3, 35488), (4, 35473), (9, 35410), (Start: 25 @35308 has 109 MA's), (35, 35206), (40, 35161), (41, 35158), (56, 35020), (57, 35017), (66, 34906), (67, 34897), (78, 34795), (92, 34666), (95, 34651), (99, 34615), (104, 34507), (109, 34459), (113, 34396),

Gene: Riyhil_48 Start: 35323, Stop: 34391, Start Num: 25

Candidate Starts for Riyhil_48:

(3, 35503), (4, 35488), (9, 35425), (Start: 25 @35323 has 109 MA's), (35, 35221), (40, 35176), (41, 35173), (56, 35035), (57, 35032), (66, 34921), (67, 34912), (78, 34810), (84, 34759), (92, 34681), (95, 34666), (99, 34630), (104, 34522), (109, 34474), (113, 34411),

Gene: Robinson_48 Start: 35311, Stop: 34379, Start Num: 25

Candidate Starts for Robinson_48:

(3, 35491), (4, 35476), (9, 35413), (Start: 25 @35311 has 109 MA's), (35, 35209), (40, 35164), (41, 35161), (56, 35023), (57, 35020), (66, 34909), (67, 34900), (78, 34798), (92, 34669), (95, 34654), (99, 34618), (104, 34510), (109, 34462), (113, 34399),

Gene: Rog141_47 Start: 35020, Stop: 34088, Start Num: 25

Candidate Starts for Rog141_47:

(Start: 25 @35020 has 109 MA's), (35, 34918), (40, 34873), (41, 34870), (53, 34774), (56, 34732), (57, 34729), (66, 34618), (67, 34609), (78, 34507), (84, 34456), (92, 34378), (95, 34363), (99, 34327), (104, 34219), (109, 34171), (113, 34108),

Gene: SJay_48 Start: 35314, Stop: 34382, Start Num: 25

Candidate Starts for SJay_48:

(Start: 25 @35314 has 109 MA's), (35, 35212), (40, 35167), (41, 35164), (53, 35068), (56, 35026), (57, 35023), (66, 34912), (67, 34903), (78, 34801), (84, 34750), (92, 34672), (95, 34657), (99, 34621), (104, 34513), (109, 34465), (113, 34402),

Gene: Sansa_45 Start: 34318, Stop: 33368, Start Num: 22

Candidate Starts for Sansa_45:

(16, 34339), (Start: 19 @34330 has 1 MA's), (Start: 22 @34318 has 24 MA's), (32, 34258), (35, 34216), (39, 34174), (40, 34171), (41, 34168), (46, 34117), (52, 34078), (66, 33919), (67, 33910), (71, 33883), (72, 33871), (78, 33808), (81, 33784), (84, 33754), (85, 33751), (86, 33739), (88, 33724), (89, 33715), (91, 33682), (92, 33676), (99, 33625), (100, 33574), (101, 33565), (104, 33520), (109, 33472), (114, 33406),

Gene: Saratos_46 Start: 34073, Stop: 33123, Start Num: 22

Candidate Starts for Saratos_46:

(16, 34094), (Start: 19 @34085 has 1 MA's), (Start: 22 @34073 has 24 MA's), (32, 34013), (35, 33971), (40, 33926), (43, 33914), (46, 33872), (52, 33833), (66, 33674), (67, 33665), (71, 33638), (72, 33626), (81, 33539), (84, 33509), (85, 33506), (86, 33494), (88, 33479), (89, 33470), (91, 33437), (92, 33431), (99, 33380), (101, 33320), (104, 33275), (109, 33227), (114, 33161),

Gene: Schimmels22_43 Start: 33137, Stop: 32187, Start Num: 21

Candidate Starts for Schimmels22_43:

(8, 33239), (9, 33236), (Start: 21 @33137 has 22 MA's), (32, 33074), (35, 33032), (38, 32996), (52, 32894), (57, 32846), (67, 32729), (71, 32702), (72, 32690), (78, 32627), (81, 32603), (84, 32573), (85, 32570), (86, 32558), (88, 32543), (89, 32534), (92, 32495), (99, 32444), (104, 32339), (114, 32225),

Gene: Schnapsidee_48 Start: 35292, Stop: 34360, Start Num: 25

Candidate Starts for Schnapsidee_48:

(Start: 17 @35313 has 5 MA's), (Start: 25 @35292 has 109 MA's), (32, 35232), (35, 35190), (36, 35172), (37, 35166), (38, 35154), (40, 35145), (47, 35088), (53, 35046), (56, 35004), (57, 35001), (60, 34977), (66, 34890), (67, 34881), (78, 34779), (86, 34713), (92, 34650), (95, 34635), (104, 34491), (109, 34443),

Gene: Schubert_45 Start: 33948, Stop: 32995, Start Num: 24

Candidate Starts for Schubert_45:

(Start: 24 @33948 has 2 MA's), (31, 33900), (32, 33885), (35, 33843), (40, 33798), (52, 33702), (57, 33654), (60, 33630), (63, 33594), (66, 33543), (71, 33507), (72, 33495), (78, 33432), (85, 33378), (86, 33366), (88, 33351), (89, 33342), (92, 33303), (99, 33252), (109, 33096), (112, 33042),

Gene: Sedgewig_47 Start: 35018, Stop: 34086, Start Num: 25

Candidate Starts for Sedgewig_47:

(Start: 25 @35018 has 109 MA's), (35, 34916), (40, 34871), (41, 34868), (56, 34730), (57, 34727), (66, 34616), (67, 34607), (78, 34505), (92, 34376), (95, 34361), (99, 34325), (104, 34217), (109, 34169), (113, 34106),

Gene: ShaiHulud_49 Start: 35329, Stop: 34397, Start Num: 25

Candidate Starts for ShaiHulud_49:

(Start: 25 @35329 has 109 MA's), (35, 35227), (40, 35182), (41, 35179), (56, 35041), (57, 35038), (66, 34927), (67, 34918), (78, 34816), (92, 34687), (95, 34672), (99, 34636), (104, 34528), (109, 34480), (113, 34417),

Gene: Shamu_47 Start: 34252, Stop: 33302, Start Num: 22

Candidate Starts for Shamu_47:

(16, 34273), (Start: 19 @34264 has 1 MA's), (Start: 22 @34252 has 24 MA's), (32, 34192), (35, 34150), (39, 34108), (40, 34105), (41, 34102), (46, 34051), (52, 34012), (66, 33853), (67, 33844), (71, 33817), (72, 33805), (78, 33742), (81, 33718), (84, 33688), (85, 33685), (86, 33673), (88, 33658), (89, 33649), (91, 33616), (92, 33610), (99, 33559), (100, 33508), (101, 33499), (104, 33454), (109, 33406), (114, 33340),

Gene: Shee_48 Start: 35310, Stop: 34378, Start Num: 25

Candidate Starts for Shee_48:

(3, 35490), (4, 35475), (9, 35412), (Start: 25 @35310 has 109 MA's), (35, 35208), (40, 35163), (41, 35160), (56, 35022), (57, 35019), (66, 34908), (67, 34899), (78, 34797), (84, 34746), (92, 34668), (95, 34653), (99, 34617), (104, 34509), (109, 34461), (113, 34398),

Gene: SoilGremlin_49 Start: 35316, Stop: 34384, Start Num: 25

Candidate Starts for SoilGremlin_49:

(3, 35496), (4, 35481), (9, 35418), (Start: 25 @35316 has 109 MA's), (35, 35214), (40, 35169), (41, 35166), (56, 35028), (57, 35025), (66, 34914), (67, 34905), (78, 34803), (92, 34674), (95, 34659), (99, 34623), (104, 34515), (109, 34467), (113, 34404),

Gene: SonOfLevi_48 Start: 35048, Stop: 34116, Start Num: 25

Candidate Starts for SonOfLevi_48:

(Start: 25 @35048 has 109 MA's), (35, 34946), (40, 34901), (41, 34898), (53, 34802), (56, 34760), (57, 34757), (66, 34646), (67, 34637), (78, 34535), (84, 34484), (92, 34406), (95, 34391), (99, 34355), (104, 34247), (109, 34199), (113, 34136),

Gene: Stanktossa_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for Stanktossa_48:

(3, 35493), (4, 35478), (9, 35415), (Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (84, 34749), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464), (113, 34401),

Gene: StingRay_47 Start: 35033, Stop: 34101, Start Num: 25

Candidate Starts for StingRay_47:

(Start: 25 @35033 has 109 MA's), (35, 34931), (40, 34886), (41, 34883), (53, 34787), (56, 34745), (57, 34742), (66, 34631), (67, 34622), (78, 34520), (84, 34469), (92, 34391), (95, 34376), (99, 34340), (104, 34232), (109, 34184), (113, 34121),

Gene: StirfryIV_47 Start: 35029, Stop: 34097, Start Num: 25

Candidate Starts for StirfryIV_47:

(Start: 25 @35029 has 109 MA's), (35, 34927), (40, 34882), (41, 34879), (56, 34741), (57, 34738), (66, 34627), (67, 34618), (78, 34516), (92, 34387), (95, 34372), (99, 34336), (104, 34228), (109, 34180), (113, 34117),

Gene: Stormbreaker8_47 Start: 35189, Stop: 34236, Start Num: 17

Candidate Starts for Stormbreaker8_47:

(Start: 17 @35189 has 5 MA's), (Start: 25 @35168 has 109 MA's), (32, 35108), (35, 35066), (36, 35048), (37, 35042), (38, 35030), (56, 34880), (57, 34877), (60, 34853), (66, 34766), (67, 34757), (78, 34655), (86, 34589), (92, 34526), (95, 34511), (104, 34367), (109, 34319),

Gene: Strathdee_48 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for Strathdee_48:

(Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470), (113, 34407),

Gene: Superfresh_48 Start: 35308, Stop: 34376, Start Num: 25

Candidate Starts for Superfresh_48:

(3, 35488), (4, 35473), (9, 35410), (Start: 25 @35308 has 109 MA's), (35, 35206), (40, 35161), (41, 35158), (56, 35020), (57, 35017), (66, 34906), (67, 34897), (78, 34795), (92, 34666), (95, 34651), (99, 34615), (104, 34507), (109, 34459), (113, 34396),

Gene: TatarkaPM_48 Start: 35323, Stop: 34391, Start Num: 25

Candidate Starts for TatarkaPM_48:

(3, 35503), (4, 35488), (9, 35425), (Start: 25 @35323 has 109 MA's), (35, 35221), (40, 35176), (41, 35173), (56, 35035), (57, 35032), (66, 34921), (67, 34912), (78, 34810), (84, 34759), (92, 34681), (95, 34666), (99, 34630), (104, 34522), (109, 34474), (113, 34411),

Gene: Teagan_48 Start: 35310, Stop: 34378, Start Num: 25

Candidate Starts for Teagan_48:

(Start: 25 @35310 has 109 MA's), (35, 35208), (40, 35163), (41, 35160), (56, 35022), (57, 35019), (66, 34908), (67, 34899), (78, 34797), (84, 34746), (92, 34668), (95, 34653), (99, 34617), (104, 34509), (109, 34461),

Gene: TeddyBear_47 Start: 35030, Stop: 34098, Start Num: 25

Candidate Starts for TeddyBear_47:

(Start: 25 @35030 has 109 MA's), (35, 34928), (40, 34883), (41, 34880), (53, 34784), (56, 34742), (57, 34739), (66, 34628), (67, 34619), (78, 34517), (84, 34466), (92, 34388), (95, 34373), (99, 34337), (104, 34229), (109, 34181), (113, 34118),

Gene: Tenda_47 Start: 35028, Stop: 34096, Start Num: 25

Candidate Starts for Tenda_47:

(Start: 25 @35028 has 109 MA's), (35, 34926), (40, 34881), (41, 34878), (53, 34782), (56, 34740), (57, 34737), (66, 34626), (67, 34617), (78, 34515), (84, 34464), (92, 34386), (95, 34371), (99, 34335), (104, 34227), (109, 34179), (113, 34116),

Gene: Thompsone_48 Start: 35317, Stop: 34385, Start Num: 25

Candidate Starts for Thompsone_48:

(Start: 25 @35317 has 109 MA's), (35, 35215), (40, 35170), (41, 35167), (56, 35029), (57, 35026), (66, 34915), (67, 34906), (78, 34804), (92, 34675), (95, 34660), (99, 34624), (104, 34516), (109, 34468),

Gene: Thorongil_48 Start: 34834, Stop: 33902, Start Num: 25

Candidate Starts for Thorongil_48:

(Start: 25 @34834 has 109 MA's), (35, 34732), (40, 34687), (41, 34684), (56, 34546), (57, 34543), (66, 34432), (67, 34423), (78, 34321), (92, 34192), (95, 34177), (99, 34141), (104, 34033), (109, 33985), (113, 33922),

Gene: TinSulphur_49 Start: 35319, Stop: 34387, Start Num: 25

Candidate Starts for TinSulphur_49:

(3, 35499), (4, 35484), (9, 35421), (Start: 25 @35319 has 109 MA's), (35, 35217), (40, 35172), (41, 35169), (56, 35031), (57, 35028), (66, 34917), (67, 34908), (78, 34806), (84, 34755), (92, 34677), (95, 34662), (99, 34626), (104, 34518), (109, 34470), (113, 34407),

Gene: Tinyman4_43 Start: 32838, Stop: 31888, Start Num: 21

Candidate Starts for Tinyman4_43:

(8, 32940), (9, 32937), (Start: 21 @32838 has 22 MA's), (32, 32775), (35, 32733), (38, 32697), (52, 32595), (57, 32547), (67, 32430), (71, 32403), (72, 32391), (78, 32328), (81, 32304), (84, 32274), (85, 32271), (86, 32259), (88, 32244), (89, 32235), (92, 32196), (99, 32145), (104, 32040), (114, 31926),

Gene: Velene_48 Start: 35315, Stop: 34383, Start Num: 25

Candidate Starts for Velene_48:

(Start: 25 @35315 has 109 MA's), (35, 35213), (40, 35168), (41, 35165), (56, 35027), (57, 35024), (66, 34913), (67, 34904), (78, 34802), (84, 34751), (92, 34673), (95, 34658), (99, 34622), (104, 34514), (109, 34466),

Gene: Vispitious_48 Start: 35320, Stop: 34388, Start Num: 25

Candidate Starts for Vispitious_48:

(Start: 25 @35320 has 109 MA's), (35, 35218), (40, 35173), (41, 35170), (56, 35032), (57, 35029), (66, 34918), (67, 34909), (78, 34807), (92, 34678), (95, 34663), (99, 34627), (104, 34519), (109, 34471), (113, 34408),

Gene: WestPM_42 Start: 32910, Stop: 31954, Start Num: 21

Candidate Starts for WestPM_42:

(9, 33009), (Start: 21 @32910 has 22 MA's), (32, 32847), (35, 32805), (38, 32769), (52, 32667), (57, 32619), (67, 32496), (71, 32469), (72, 32457), (78, 32394), (81, 32370), (84, 32340), (85, 32337), (86, 32325), (88, 32310), (89, 32301), (91, 32268), (92, 32262), (104, 32106), (105, 32088), (114, 31992),

Gene: WildNOut_48 Start: 35313, Stop: 34381, Start Num: 25

Candidate Starts for WildNOut_48:

(Start: 25 @35313 has 109 MA's), (35, 35211), (40, 35166), (41, 35163), (56, 35025), (57, 35022), (66, 34911), (67, 34902), (78, 34800), (92, 34671), (95, 34656), (99, 34620), (104, 34512), (109, 34464),

Gene: Winzigespinne_47 Start: 35016, Stop: 34084, Start Num: 25

Candidate Starts for Winzigespinne_47:

(Start: 25 @35016 has 109 MA's), (35, 34914), (40, 34869), (41, 34866), (53, 34770), (56, 34728), (57, 34725), (66, 34614), (67, 34605), (78, 34503), (84, 34452), (92, 34374), (95, 34359), (99, 34323), (104, 34215), (109, 34167), (113, 34104),

Gene: YuuY_46 Start: 34393, Stop: 33461, Start Num: 21

Candidate Starts for YuuY_46:

(6, 34495), (7, 34492), (15, 34414), (18, 34405), (Start: 21 @34393 has 22 MA's), (26, 34378), (27, 34372), (31, 34345), (32, 34330), (40, 34243), (47, 34186), (48, 34180), (57, 34102), (66, 33991), (67, 33982), (74, 33931), (76, 33919), (78, 33880), (85, 33826), (86, 33814), (87, 33805), (90, 33772), (91, 33757), (93, 33745), (95, 33736), (97, 33709), (98, 33703), (106, 33568), (109, 33544), (112, 33490),

Gene: Zada_49 Start: 35289, Stop: 34357, Start Num: 25

Candidate Starts for Zada_49:

(Start: 25 @35289 has 109 MA's), (35, 35187), (40, 35142), (41, 35139), (56, 35001), (57, 34998), (66, 34887), (67, 34878), (78, 34776), (84, 34725), (92, 34647), (95, 34632), (99, 34596), (104, 34488), (109, 34440), (113, 34377),

Gene: Zayuliv_46 Start: 33363, Stop: 32425, Start Num: 22

Candidate Starts for Zayuliv_46:

(Start: 22 @33363 has 24 MA's), (30, 33327), (32, 33303), (39, 33219), (40, 33216), (50, 33144), (56, 33072), (57, 33069), (58, 33066), (59, 33054), (62, 33036), (72, 32910), (78, 32847), (84, 32796), (92, 32718), (96, 32679), (99, 32667), (106, 32535), (109, 32511), (114, 32445),

Gene: Zayuliv_47 Start: 34334, Stop: 33360, Start Num: 21

Candidate Starts for Zayuliv_47:

(13, 34382), (Start: 21 @34334 has 22 MA's), (Start: 25 @34322 has 109 MA's), (28, 34301), (33, 34235), (40, 34172), (47, 34115), (49, 34103), (52, 34076), (54, 34064), (56, 34031), (57, 34028), (63, 33965), (71, 33878), (77, 33815), (84, 33752), (88, 33722), (89, 33713), (92, 33674), (103, 33518), (105, 33497), (107, 33488), (108, 33467), (110, 33452), (115, 33389), (116, 33365),

Gene: Zenitsu_46 Start: 34118, Stop: 33168, Start Num: 22

Candidate Starts for Zenitsu_46:

(16, 34139), (Start: 19 @34130 has 1 MA's), (Start: 22 @34118 has 24 MA's), (32, 34058), (35, 34016), (39, 33974), (40, 33971), (41, 33968), (46, 33917), (52, 33878), (66, 33719), (67, 33710), (71, 33683), (72, 33671), (78, 33608), (81, 33584), (84, 33554), (85, 33551), (86, 33539), (88, 33524), (89, 33515), (91, 33482), (92, 33476), (99, 33425), (100, 33374), (101, 33365), (104, 33320), (109, 33272), (114, 33206),

Gene: Zepp_46 Start: 32797, Stop: 31859, Start Num: 22

Candidate Starts for Zepp_46:

(Start: 22 @32797 has 24 MA's), (30, 32761), (39, 32653), (40, 32650), (50, 32578), (56, 32506), (57, 32503), (58, 32500), (59, 32488), (62, 32470), (72, 32344), (78, 32281), (84, 32230), (92, 32152), (96, 32113), (99, 32101), (106, 31969), (109, 31945), (114, 31879),

Gene: Zepp_47 Start: 33768, Stop: 32794, Start Num: 21

Candidate Starts for Zepp_47:

(15, 33792), (18, 33783), (Start: 21 @33768 has 22 MA's), (Start: 25 @33756 has 109 MA's), (28, 33735), (33, 33669), (40, 33606), (47, 33549), (49, 33537), (52, 33510), (54, 33498), (56, 33465), (57, 33462), (63, 33399), (71, 33312), (77, 33249), (85, 33183), (88, 33156), (89, 33147), (92, 33108), (103, 32952), (105, 32931), (107, 32922), (108, 32901), (110, 32886), (115, 32823), (116, 32799),