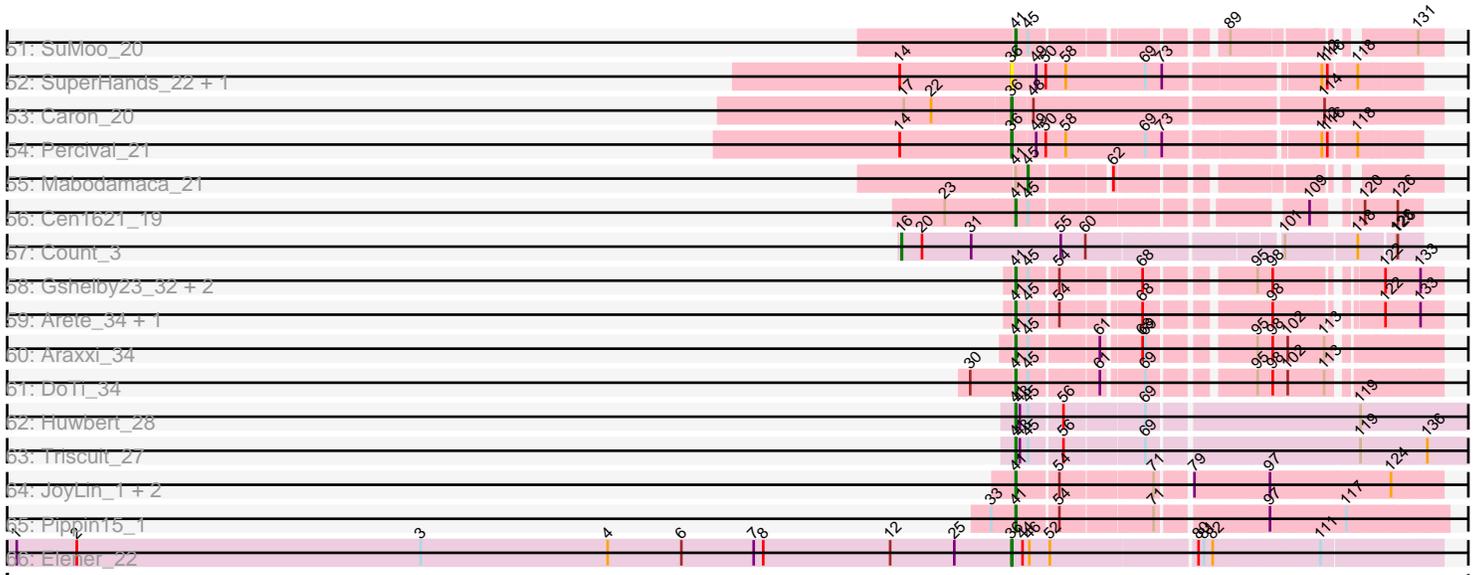


Pham 289091



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 289091 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289091 has 210 members, 18 are drafts.

Phages represented in each track:

- Track 1 : Oats_24, Clancy_24, Espinosa_24, JasperRussell_24, StirfryIV_24, Exploradora_24, Jerbirus_25, Duocatuli_24, Ilzat_24, Asta_24, HanSolo_24, KannH_24, CoraRita_25, Aubergine_24, HankSprout_25, Rog141_24, KellyGreen_25, Janus167_24, Symere_24, JeriBeth_25, Tenda_24, Papafritta_24, Winzigespinne_24, Chako_24, Pocket_24, Gubbabump_24, RosieMae_24, Kouch_24, Gershwin_24, AranulaLuti_24, Kale_24, HungryHenry_24, Christoph_24, ManRay_24, Sedgewig_24, TeddyBear_24, Benjal Lauren_25, StingRay_24
- Track 2 : Erla_24, Garey24_24, Chamuel_24, Baines_24, Bonino_24, Gelo_24, Klimt_24, Etta_24
- Track 3 : Lovelyunicorn_24, BonesMcCoy_24, SoilGremlin_24, Oxtober96_24, Velene_24, Delphidian_24, MillyPhilly_24, GoingMerry_24, Phriends_24, Convict_24, Blage_24, WildNOut_24, Den3_24, Knox_24, Greys_24, Merida02_25, Strathdee_24, OldNelly_24, Ioannes_24, BigRedClifford_24, Thompsone_24, Raptor_24
- Track 4 : Schnapsidee_24, Etna_24
- Track 5 : Balsa_24, Hamlet_24, Peppino_24, Redfield_24
- Track 6 : Renzie_24, Peep_24, TinSulphur_24, Inventa_24, Riyhil_24, Teagan_24, Gargoyle_24, Alyxandracam_24, Kurt1_24, Rappheph_24, Nagem_24, TatarkaPM_24, Ludgate_24, Antoinette_24, SJay_24, Superfresh_24, Byron23_24, Pherferi_24, SolidSnake_25, Shee_24, Dave_24, Stanktossa_24, Phireproof_24, PhredFlintston_24, MaeLinda_24, NickSell_24, Martin_25, Dothraki_24, Bandik_24, Figueroism_24, Zada_24, BeautPeep30_24, Phiderman_24
- Track 7 : Nattles_24, Calix_24, SonOfLevi_24
- Track 8 : McGalleon_25
- Track 9 : Endor_25
- Track 10 : KingJulien_24, Raccoon_24, BeeBee8_25, Soror1_24, Stormbreaker8_24
- Track 11 : PuppyEggo_24, AlexAdler_24, Vispistious_24, AxiPup_24, ShaiHulud_24, Thorongil_24
- Track 12 : Anilorac_24
- Track 13 : CarisSwetlik_27
- Track 14 : HavenFinLeoSun_25
- Track 15 : GoneGirl_25, GardenB_24
- Track 16 : Agente005_25
- Track 17 : JasonD_26
- Track 18 : Acosta_25
- Track 19 : Jenos_26
- Track 20 : Leafus_24, PhillyPhantom_24

- Track 21 : FarmerDoug_24
- Track 22 : MonChoix_23
- Track 23 : Robinson_24
- Track 24 : ParleG_24, MrWorldwide_24
- Track 25 : MiniVolent_23
- Track 26 : Mandalorian_23, Quartz_23, Nucci_23, Carostasia_23
- Track 27 : Juanyo_23
- Track 28 : YuuY_23
- Track 29 : HairyMan_22
- Track 30 : Andromedas_23, ChikPic_23, Xebius_23, Eleri_23, Glamour_22, PSirce_23, Zenitsu_23, ColaCorta_23, Saratos_23, Shamu_23
- Track 31 : MCubed_23, Finny_23, Phanita_23, Sansa_22
- Track 32 : Nebulous_23
- Track 33 : Alakazam_24
- Track 34 : Neferthena_23
- Track 35 : Clock_23
- Track 36 : Clayda5_20, Armstrong_20
- Track 37 : Eden_20
- Track 38 : Coltrane_20, Brahms_20
- Track 39 : CliffHanger_24
- Track 40 : Skylord_20
- Track 41 : Buldak_23
- Track 42 : Bernstein_20, Vitas_20, Rollins_20
- Track 43 : Olliecat_23, Squirrel_23
- Track 44 : Franklin22_21
- Track 45 : Gack_20
- Track 46 : BonaeVitae_17, Naby_17
- Track 47 : UtzChips_20, Barnstormer_20
- Track 48 : Honk_19
- Track 49 : IAmGroot_21, GardenState_21
- Track 50 : Gretchen_21
- Track 51 : SuMoo_20
- Track 52 : SuperHands_22, Forester_39
- Track 53 : Caron_20
- Track 54 : Percival_21
- Track 55 : Mabodamaca_21
- Track 56 : Cen1621_19
- Track 57 : Count_3
- Track 58 : Gshelby23_32, Hannabella_34, Casino_33
- Track 59 : Arete_34, Scruffy_34
- Track 60 : Araxxi_34
- Track 61 : DoTi_34
- Track 62 : Huwburt_28
- Track 63 : Triscuit_27
- Track 64 : JoyLin_1, Yotsuba_1, Eevee_1
- Track 65 : Pippin15_1
- Track 66 : Elener_22

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

The start number called the most often in the published annotations is 41, it was called in 142 of the 192 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alakazam_24, AlexAdler_24, Alyxandracam_24, Andromedas_23, Antoinette_24, AranulaLuti_24, Araxxi_34, Arete_34, Asta_24, Aubergine_24, AxiPup_24, Baines_24, Bandik_24, BeautPeep30_24, Benjalauren_25, BigRedClifford_24, Blage_24, BonesMcCoy_24, Bonino_24, Byron23_24, Carostasia_23, Casino_33, Cen1621_19, Chako_24, Chamuel_24, ChikPic_23, Christoph_24, Clancy_24, Clock_23, ColaCorta_23, Convict_24, CoraRita_25, Dave_24, Delphidian_24, Den3_24, DoTi_34, Dothraki_24, Duocatuli_24, Eevee_1, Eleri_23, Erla_24, Espinosa_24, Etta_24, Exploradora_24, Figueroism_24, Finny_23, Garey24_24, Gargoyle_24, Gelo_24, Gershwin_24, Glamour_22, GoingMerry_24, Greys_24, Gshelby23_32, Gubbabump_24, HairyMan_22, HanSolo_24, HankSprout_25, Hannabella_34, Honk_19, HungryHenry_24, Huwbert_28, Ilzat_24, Inventa_24, Ioannes_24, Janus167_24, JasperRussell_24, Jerbirus_25, JeriBeth_25, JoyLin_1, Juanyo_23, Kale_24, KannH_24, KellyGreen_25, Klimt_24, Knox_24, Kouch_24, Kurt1_24, Lovelyunicorn_24, Ludgate_24, MCubed_23, MaeLinda_24, ManRay_24, Mandalorian_23, Martin_25, Merida02_25, MillyPhilly_24, MiniVolent_23, MrWorldwide_24, Nagem_24, Nebulous_23, Neferthena_23, NickSell_24, Nucci_23, Oats_24, OldNelly_24, Oxtober96_24, PSirce_23, Papafritta_24, ParleG_24, Peep_24, Phanita_23, Pherferi_24, Phiderman_24, Phireproof_24, PhredFlintston_24, Phriends_24, Pippin15_1, Pocket_24, PuppyEggo_24, Quartz_23, Rappheph_24, Raptor_24, Renzie_24, Rihhil_24, Robinson_24, Rog141_24, RosieMae_24, SJay_24, Sansa_22, Saratos_23, Scruffy_34, Sedgewig_24, ShaiHulud_24, Shamu_23, Shee_24, SoilGremlin_24, SolidSnake_25, Stanktossa_24, StingRay_24, StirfryIV_24, Strathdee_24, SuMoo_20, Superfresh_24, Symere_24, TatarkaPM_24, Teagan_24, TeddyBear_24, Tenda_24, Thompsone_24, Thorongil_24, TinSulphur_24, Triscuit_27, Velene_24, Vispistious_24, WildNOut_24, Winzigespinne_24, Xebius_23, Yotsuba_1, YuuY_23, Zada_24, Zenitsu_23,

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

- Calix_24, Mabodamaca_21, Nattles_24, SonOfLevi_24,

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

- Acosta_25, Agente005_25, Anilorac_24, Armstrong_20, Balsa_24, Barnstormer_20, BeeBee8_25, Bernstein_20, BonaeVitae_17, Brahms_20, Buldak_23, CarisSwetlik_27, Caron_20, Clayda5_20, CliffHanger_24, Coltrane_20, Count_3, Eden_20, Elener_22, Endor_25, Etna_24, FarmerDoug_24, Forester_39, Franklin22_21, Gack_20, GardenB_24, GardenState_21, GoneGirl_25, Gretchen_21, Hamlet_24, HavenFinLeoSun_25, IAmGroot_21, JasonD_26, Jenos_26, KingJulien_24, Leafus_24, McGalleon_25, MonChoix_23, Naby_17, Olliecat_23, Peppino_24, Percival_21, PhillyPhantom_24, Raccoon_24, Redfield_24, Rollins_20, Schnapsidee_24, Skylord_20, Soror1_24, Squirrel_23, Stormbreaker8_24, SuperHands_22, UtzChips_20, Vitas_20,

Summary by start number:

Start 16:

- Found in 1 of 210 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 192
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Count_3 (EL),

Start 34:

- Found in 2 of 210 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 192
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BonaeVitae_17 (EE), Naby_17 (EE),

Start 35:

- Found in 14 of 210 (6.7%) of genes in pham
- Manual Annotations of this start: 3 of 192
- Called 21.4% of time when present
- Phage (with cluster) where this start called: Calix_24 (EA1), Nattles_24 (EA1), SonOfLevi_24 (EA1),

Start 36:

- Found in 14 of 210 (6.7%) of genes in pham
- Manual Annotations of this start: 12 of 192
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer_20 (EH), Buldak_23 (EB), Caron_20 (EH), CliffHanger_24 (EB), Elener_22 (singleton), Forester_39 (EH), GardenState_21 (EH), Gretchen_21 (EH), IAmGroot_21 (EH), Olliecat_23 (EB), Percival_21 (EH), Squircle_23 (EB), SuperHands_22 (EH), UtzChips_20 (EH),

Start 37:

- Found in 6 of 210 (2.9%) of genes in pham
- Manual Annotations of this start: 4 of 192
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta_25 (EA1), CarisSwetlik_27 (EA1), HavenFinLeoSun_25 (EA1), JasonD_26 (EA1), Jenos_26 (EA1), McGalleon_25 (EA1),

Start 38:

- Found in 7 of 210 (3.3%) of genes in pham
- Manual Annotations of this start: 5 of 192
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agente005_25 (EA1), Anilorac_24 (EA1), Endor_25 (EA1), FarmerDoug_24 (EA1), GardenB_24 (EA1), GoneGirl_25 (EA1), MonChoix_23 (EA1),

Start 39:

- Found in 13 of 210 (6.2%) of genes in pham
- Manual Annotations of this start: 11 of 192
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Balsa_24 (EA1), BeeBee8_25 (EA1), Etna_24 (EA1), Hamlet_24 (EA1), KingJulien_24 (EA1), Leafus_24 (EA1), Peppino_24 (EA1), PhillyPhantom_24 (EA1), Raccoon_24 (EA1), Redfield_24 (EA1), Schnapsidee_24 (EA1), Soror1_24 (EA1), Stormbreaker8_24 (EA1),

Start 40:

- Found in 11 of 210 (5.2%) of genes in pham
- Manual Annotations of this start: 11 of 192
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Armstrong_20 (EB), Bernstein_20 (EB), Brahms_20 (EB), Clayda5_20 (EB), Coltrane_20 (EB), Eden_20 (EB), Franklin22_21 (EB), Gack_20 (EB), Rollins_20 (EB), Skylord_20 (EB), Vitas_20 (EB),

Start 41:

- Found in 156 of 210 (74.3%) of genes in pham
- Manual Annotations of this start: 142 of 192
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Alakazam_24 (EA5), AlexAdler_24 (EA1), Alyxandracam_24 (EA1), Andromedas_23 (EA2), Antoinette_24 (EA1), AranulaLuti_24 (EA1), Araxxi_34 (EM1), Arete_34 (EM1), Asta_24 (EA1), Aubergine_24 (EA1), AxiPup_24 (EA1), Baines_24 (EA1), Bandik_24 (EA1), BeautPeep30_24 (EA1), Benjalauren_25 (EA1), BigRedClifford_24 (EA1), Blage_24 (EA1), BonesMcCoy_24 (EA1), Bonino_24 (EA1), Byron23_24 (EA1), Carostasia_23 (EA10), Casino_33 (EM1), Cen1621_19 (EH), Chako_24 (EA1), Chamuel_24 (EA1), ChikPic_23 (EA2), Christoph_24 (EA1), Clancy_24 (EA1), Clock_23 (EA5), ColaCorta_23 (EA2), Convict_24 (EA1), CoraRita_25 (EA1), Dave_24 (EA1), Delphidian_24 (EA1), Den3_24 (EA1), DoTi_34 (EM1), Dothraki_24 (EA1), Duocatuli_24 (EA1), Eevee_1 (JA), Eleri_23 (EA2), Erla_24 (EA1), Espinosa_24 (EA1), Etta_24 (EA1), Exploradora_24 (EA1), Figueroism_24 (EA1), Finny_23 (EA2), Garey24_24 (EA1), Gargoyle_24 (EA1), Gelo_24 (EA1), Gershwin_24 (EA1), Glamour_22 (EA2), GoingMerry_24 (EA1), Greys_24 (EA1), Gshelby23_32 (EM1), Gubbabump_24 (EA1), HairyMan_22 (EA10), HanSolo_24 (EA1), HankSprout_25 (EA1), Hannabella_34 (EM1), Honk_19 (EH), HungryHenry_24 (EA1), Huwbert_28 (GG), Ilzat_24 (EA1), Inventa_24 (EA1), Ioannes_24 (EA1), Janus167_24 (EA1), JasperRussell_24 (EA1), Jerbirus_25 (EA1), JeriBeth_25 (EA1), JoyLin_1 (JA), Juanyo_23 (EA10), Kale_24 (EA1), KannH_24 (EA1), KellyGreen_25 (EA1), Klimt_24 (EA1), Knox_24 (EA1), Kouch_24 (EA1), Kurt1_24 (EA1), Lovelyunicorn_24 (EA1), Ludgate_24 (EA1), MCubed_23 (EA2), MaeLinda_24 (EA1), ManRay_24 (EA1), Mandalorian_23 (EA10), Martin_25 (EA1), Merida02_25 (EA1), MillyPhilly_24 (EA1), MiniVolent_23 (EA10), MrWorldwide_24 (EA1), Nagem_24 (EA1), Nebulous_23 (EA5), Neferthena_23 (EA5), NickSell_24 (EA1), Nucci_23 (EA10), Oats_24 (EA1), OldNelly_24 (EA1), Oxtober96_24 (EA1), PSirce_23 (EA2), Papafritta_24 (EA1), ParleG_24 (EA1), Peep_24 (EA1), Phanita_23 (EA2), Pherferi_24 (EA1), Phiderman_24 (EA1), Phireproof_24 (EA1), PhredFlintston_24 (EA1), Phriends_24 (EA1), Pippin15_1 (JA), Pocket_24 (EA1), PuppyEggo_24 (EA1), Quartz_23 (EA10), Rappheph_24 (EA1), Raptor_24 (EA1), Renzie_24 (EA1), Riyhil_24 (EA1), Robinson_24 (EA1), Rog141_24 (EA1), RosieMae_24 (EA1), SJay_24 (EA1), Sansa_22 (EA2), Saratos_23 (EA2), Scruffy_34 (EM1), Sedgewig_24 (EA1), ShaiHulud_24 (EA1), Shamu_23 (EA2), Shee_24 (EA1), SoilGremlin_24 (EA1), SolidSnake_25 (EA1), Stanktossa_24 (EA1), StingRay_24 (EA1), StirfryIV_24 (EA1), Strathdee_24 (EA1), SuMoo_20 (EH), Superfresh_24 (EA1), Symere_24 (EA1), TatarkaPM_24 (EA1), Teagan_24 (EA1), TeddyBear_24 (EA1), Tenda_24 (EA1), Thompsone_24 (EA1), Thorongil_24 (EA1), TinSulphur_24 (EA1), Triscuit_27 (GG), Velene_24 (EA1), Vispistious_24 (EA1), WildNOut_24 (EA1), Winzigespinne_24 (EA1), Xebius_23 (EA2), Yotsuba_1 (JA), YuuY_23 (EA10), Zada_24 (EA1), Zenitsu_23 (EA2),

Start 45:

- Found in 42 of 210 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 192
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Mabodamaca_21 (EH),

Summary by clusters:

There are 12 clusters represented in this pham: EL, singleton, EA10, EE, EB, GG, EM1, EA1, EA2, EA5, JA, EH,

Info for manual annotations of cluster EA1:

- Start number 35 was manually annotated 3 times for cluster EA1.
- Start number 37 was manually annotated 4 times for cluster EA1.
- Start number 38 was manually annotated 5 times for cluster EA1.
- Start number 39 was manually annotated 11 times for cluster EA1.
- Start number 41 was manually annotated 103 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 41 was manually annotated 7 times for cluster EA10.

Info for manual annotations of cluster EA2:

- Start number 41 was manually annotated 13 times for cluster EA2.

Info for manual annotations of cluster EA5:

- Start number 41 was manually annotated 4 times for cluster EA5.

Info for manual annotations of cluster EB:

- Start number 36 was manually annotated 4 times for cluster EB.
- Start number 40 was manually annotated 11 times for cluster EB.

Info for manual annotations of cluster EE:

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

Info for manual annotations of cluster EH:

- Start number 36 was manually annotated 7 times for cluster EH.
- Start number 41 was manually annotated 3 times for cluster EH.
- Start number 45 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster EL:

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

Info for manual annotations of cluster EM1:

- Start number 41 was manually annotated 6 times for cluster EM1.

Info for manual annotations of cluster GG:

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

Info for manual annotations of cluster JA:

- Start number 41 was manually annotated 4 times for cluster JA.

Gene Information:

Gene: Acosta_25 Start: 18509, Stop: 19330, Start Num: 37

Candidate Starts for Acosta_25:

(Start: 37 @18509 has 4 MA's), (Start: 45 @18542 has 1 MA's), (54, 18599), (69, 18761), (93, 18938), (100, 19019), (106, 19052), (133, 19280),

Gene: Agente005_25 Start: 18800, Stop: 19540, Start Num: 38

Candidate Starts for Agente005_25:

(Start: 38 @18800 has 5 MA's), (Start: 45 @18833 has 1 MA's), (54, 18890), (69, 19040), (90, 19187), (124, 19433),

Gene: Alakazam_24 Start: 18140, Stop: 18949, Start Num: 41

Candidate Starts for Alakazam_24:

(Start: 41 @18140 has 142 MA's), (53, 18206), (75, 18416), (93, 18563), (100, 18644), (115, 18734), (121, 18806),

Gene: AlexAdler_24 Start: 18247, Stop: 19053, Start Num: 41

Candidate Starts for AlexAdler_24:

(18, 18025), (24, 18106), (26, 18130), (Start: 41 @18247 has 142 MA's), (78, 18562), (93, 18667), (100, 18748), (123, 18937), (124, 18946),

Gene: Alyxandracam_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Alyxandracam_24:

(18, 18037), (24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Andromedas_23 Start: 18467, Stop: 19249, Start Num: 41

Candidate Starts for Andromedas_23:

(Start: 41 @18467 has 142 MA's), (67, 18701), (83, 18818), (99, 18944), (127, 19166), (131, 19199),

Gene: Anilorac_24 Start: 18645, Stop: 19385, Start Num: 38

Candidate Starts for Anilorac_24:

(Start: 38 @18645 has 5 MA's), (Start: 45 @18678 has 1 MA's), (54, 18735), (64, 18858), (69, 18885), (79, 18957), (90, 19032), (124, 19278),

Gene: Antoinette_24 Start: 18247, Stop: 19053, Start Num: 41

Candidate Starts for Antoinette_24:

(18, 18025), (24, 18106), (26, 18130), (Start: 41 @18247 has 142 MA's), (78, 18562), (93, 18667), (100, 18748), (123, 18937),

Gene: AranulaLuti_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for AranulaLuti_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Araxxi_34 Start: 41327, Stop: 42091, Start Num: 41

Candidate Starts for Araxxi_34:

(Start: 41 @41327 has 142 MA's), (Start: 45 @41354 has 1 MA's), (61, 41483), (68, 41552), (69, 41558), (95, 41732), (98, 41765), (102, 41798), (113, 41876),

Gene: Arete_34 Start: 41089, Stop: 41835, Start Num: 41

Candidate Starts for Arete_34:

(Start: 41 @41089 has 142 MA's), (Start: 45 @41116 has 1 MA's), (54, 41173), (68, 41314), (98, 41527), (122, 41716), (133, 41788),

Gene: Armstrong_20 Start: 15862, Stop: 16719, Start Num: 40

Candidate Starts for Armstrong_20:

(5, 15130), (26, 15745), (Start: 40 @15862 has 11 MA's), (47, 15898), (69, 16144), (85, 16294), (88, 16306), (133, 16672),

Gene: Asta_24 Start: 18556, Stop: 19362, Start Num: 41

Candidate Starts for Asta_24:

(Start: 41 @18556 has 142 MA's), (78, 18871), (93, 18976), (100, 19057), (123, 19246), (124, 19255),

Gene: Aubergine_24 Start: 18556, Stop: 19362, Start Num: 41

Candidate Starts for Aubergine_24:

(Start: 41 @18556 has 142 MA's), (78, 18871), (93, 18976), (100, 19057), (123, 19246), (124, 19255),

Gene: AxiPup_24 Start: 18256, Stop: 19062, Start Num: 41

Candidate Starts for AxiPup_24:

(18, 18034), (24, 18115), (26, 18139), (Start: 41 @18256 has 142 MA's), (78, 18571), (93, 18676), (100, 18757), (123, 18946), (124, 18955),

Gene: Baines_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Baines_24:

(18, 18321), (24, 18402), (26, 18426), (Start: 35 @18537 has 3 MA's), (Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Balsa_24 Start: 18648, Stop: 19388, Start Num: 39

Candidate Starts for Balsa_24:

(Start: 39 @18648 has 11 MA's), (Start: 45 @18681 has 1 MA's), (54, 18738), (69, 18888), (79, 18960), (90, 19035), (94, 19065), (124, 19281),

Gene: Bandik_24 Start: 18255, Stop: 19061, Start Num: 41

Candidate Starts for Bandik_24:

(18, 18033), (24, 18114), (26, 18138), (Start: 41 @18255 has 142 MA's), (78, 18570), (93, 18675), (100, 18756), (123, 18945),

Gene: Barnstormer_20 Start: 17742, Stop: 18602, Start Num: 36

Candidate Starts for Barnstormer_20:

(Start: 36 @17742 has 12 MA's), (86, 18162), (114, 18360),

Gene: BeautPeep30_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for BeautPeep30_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: BeeBee8_25 Start: 18813, Stop: 19553, Start Num: 39

Candidate Starts for BeeBee8_25:

(24, 18672), (Start: 39 @18813 has 11 MA's), (Start: 45 @18846 has 1 MA's), (54, 18903), (69, 19053), (79, 19125), (90, 19200), (124, 19446),

Gene: Benjalauren_25 Start: 18552, Stop: 19358, Start Num: 41

Candidate Starts for Benjalauren_25:

(Start: 41 @18552 has 142 MA's), (78, 18867), (93, 18972), (100, 19053), (123, 19242), (124, 19251),

Gene: Bernstein_20 Start: 15893, Stop: 16774, Start Num: 40

Candidate Starts for Bernstein_20:

(21, 15716), (Start: 40 @15893 has 11 MA's), (47, 15929), (69, 16175), (93, 16388), (100, 16469), (133, 16727),

Gene: BigRedClifford_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for BigRedClifford_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Blage_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Blage_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: BonaeVitae_17 Start: 12824, Stop: 13576, Start Num: 34

Candidate Starts for BonaeVitae_17:

(Start: 34 @12824 has 2 MA's), (42, 12833), (58, 12929), (63, 13031), (64, 13052), (69, 13079), (70, 13085), (71, 13097), (77, 13148), (87, 13211), (112, 13385), (118, 13454), (124, 13511), (126, 13526),

Gene: BonesMcCoy_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for BonesMcCoy_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Bonino_24 Start: 18532, Stop: 19338, Start Num: 41

Candidate Starts for Bonino_24:

(18, 18310), (24, 18391), (26, 18415), (Start: 35 @18526 has 3 MA's), (Start: 41 @18532 has 142 MA's), (78, 18847), (93, 18952), (100, 19033), (123, 19222), (124, 19231),

Gene: Brahms_20 Start: 15838, Stop: 16722, Start Num: 40

Candidate Starts for Brahms_20:

(21, 15661), (Start: 40 @15838 has 11 MA's), (47, 15874), (69, 16120), (93, 16336), (100, 16417), (105, 16453),

Gene: Buldak_23 Start: 18630, Stop: 19475, Start Num: 36

Candidate Starts for Buldak_23:

(Start: 36 @18630 has 12 MA's), (46, 18669), (51, 18708), (72, 18933), (83, 19032), (91, 19074), (96, 19125), (110, 19212), (128, 19398), (129, 19401), (135, 19443),

Gene: Byron23_24 Start: 18264, Stop: 19070, Start Num: 41

Candidate Starts for Byron23_24:

(18, 18042), (24, 18123), (26, 18147), (Start: 41 @18264 has 142 MA's), (78, 18579), (93, 18684), (100, 18765), (123, 18954),

Gene: Calix_24 Start: 18530, Stop: 19342, Start Num: 35

Candidate Starts for Calix_24:

(18, 18314), (24, 18395), (26, 18419), (Start: 35 @18530 has 3 MA's), (Start: 41 @18536 has 142 MA's), (78, 18851), (93, 18956), (100, 19037), (123, 19226), (124, 19235),

Gene: CarisSwetlik_27 Start: 19006, Stop: 19827, Start Num: 37

Candidate Starts for CarisSwetlik_27:

(27, 18895), (Start: 37 @19006 has 4 MA's), (Start: 45 @19039 has 1 MA's), (69, 19258), (93, 19435), (100, 19516), (106, 19549), (133, 19777),

Gene: Caron_20 Start: 17127, Stop: 17996, Start Num: 36

Candidate Starts for Caron_20:

(17, 16896), (22, 16956), (Start: 36 @17127 has 12 MA's), (48, 17169), (114, 17745),

Gene: Carostasia_23 Start: 18678, Stop: 19541, Start Num: 41

Candidate Starts for Carostasia_23:

(19, 18459), (Start: 41 @18678 has 142 MA's), (67, 18912), (68, 18918), (83, 19029), (99, 19155), (130, 19404), (132, 19416), (134, 19419), (139, 19491),

Gene: Casino_33 Start: 41061, Stop: 41807, Start Num: 41

Candidate Starts for Casino_33:

(Start: 41 @41061 has 142 MA's), (Start: 45 @41088 has 1 MA's), (54, 41145), (68, 41286), (95, 41466), (98, 41499), (122, 41688), (133, 41760),

Gene: Cen1621_19 Start: 16339, Stop: 17049, Start Num: 41

Candidate Starts for Cen1621_19:

(23, 16189), (Start: 41 @16339 has 142 MA's), (Start: 45 @16366 has 1 MA's), (109, 16858), (120, 16927), (126, 16999),

Gene: Chako_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Chako_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Chamuel_24 Start: 18538, Stop: 19344, Start Num: 41

Candidate Starts for Chamuel_24:

(18, 18316), (24, 18397), (26, 18421), (Start: 35 @18532 has 3 MA's), (Start: 41 @18538 has 142 MA's), (78, 18853), (93, 18958), (100, 19039), (123, 19228), (124, 19237),

Gene: ChikPic_23 Start: 18483, Stop: 19265, Start Num: 41

Candidate Starts for ChikPic_23:

(Start: 41 @18483 has 142 MA's), (67, 18717), (83, 18834), (99, 18960), (127, 19182), (131, 19215),

Gene: Christoph_24 Start: 18554, Stop: 19360, Start Num: 41

Candidate Starts for Christoph_24:

(Start: 41 @18554 has 142 MA's), (78, 18869), (93, 18974), (100, 19055), (123, 19244), (124, 19253),

Gene: Clancy_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Clancy_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Clayda5_20 Start: 15868, Stop: 16725, Start Num: 40

Candidate Starts for Clayda5_20:

(5, 15136), (26, 15751), (Start: 40 @15868 has 11 MA's), (47, 15904), (69, 16150), (85, 16300), (88, 16312), (133, 16678),

Gene: CliffHanger_24 Start: 18299, Stop: 19144, Start Num: 36

Candidate Starts for CliffHanger_24:

(29, 18215), (Start: 36 @18299 has 12 MA's), (46, 18338), (83, 18701), (84, 18704), (135, 19112),

Gene: Clock_23 Start: 18689, Stop: 19501, Start Num: 41

Candidate Starts for Clock_23:

(Start: 41 @18689 has 142 MA's), (Start: 45 @18716 has 1 MA's), (47, 18722), (65, 18911), (75, 18965), (93, 19112), (100, 19193), (123, 19385), (124, 19394),

Gene: ColaCorta_23 Start: 18467, Stop: 19249, Start Num: 41

Candidate Starts for ColaCorta_23:

(Start: 41 @18467 has 142 MA's), (67, 18701), (83, 18818), (99, 18944), (127, 19166), (131, 19199),

Gene: Coltrane_20 Start: 15838, Stop: 16722, Start Num: 40

Candidate Starts for Coltrane_20:

(21, 15661), (Start: 40 @15838 has 11 MA's), (47, 15874), (69, 16120), (93, 16336), (100, 16417), (105, 16453),

Gene: Convict_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Convict_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: CoraRita_25 Start: 18552, Stop: 19358, Start Num: 41

Candidate Starts for CoraRita_25:

(Start: 41 @18552 has 142 MA's), (78, 18867), (93, 18972), (100, 19053), (123, 19242), (124, 19251),

Gene: Count_3 Start: 493, Stop: 1518, Start Num: 16

Candidate Starts for Count_3:

(Start: 16 @493 has 1 MA's), (20, 538), (31, 646), (55, 841), (60, 892), (101, 1252), (118, 1396), (125, 1465), (126, 1468),

Gene: Dave_24 Start: 18247, Stop: 19053, Start Num: 41

Candidate Starts for Dave_24:

(18, 18025), (24, 18106), (26, 18130), (Start: 41 @18247 has 142 MA's), (78, 18562), (93, 18667), (100, 18748), (123, 18937),

Gene: Delphidian_24 Start: 18258, Stop: 19064, Start Num: 41

Candidate Starts for Delphidian_24:

(24, 18117), (26, 18141), (Start: 41 @18258 has 142 MA's), (78, 18573), (93, 18678), (100, 18759), (123, 18948),

Gene: Den3_24 Start: 18263, Stop: 19069, Start Num: 41

Candidate Starts for Den3_24:

(24, 18122), (26, 18146), (Start: 41 @18263 has 142 MA's), (78, 18578), (93, 18683), (100, 18764), (123, 18953),

Gene: DoTi_34 Start: 41431, Stop: 42195, Start Num: 41

Candidate Starts for DoTi_34:

(30, 41338), (Start: 41 @41431 has 142 MA's), (Start: 45 @41458 has 1 MA's), (61, 41587), (69, 41662), (95, 41836), (98, 41869), (102, 41902), (113, 41980),

Gene: Dothraki_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Dothraki_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Duocatuli_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Duocatuli_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Eden_20 Start: 16231, Stop: 17001, Start Num: 40

Candidate Starts for Eden_20:

(Start: 40 @16231 has 11 MA's), (57, 16324), (69, 16468), (74, 16498), (79, 16540), (94, 16636), (133, 16954),

Gene: Eevee_1 Start: 116, Stop: 946, Start Num: 41

Candidate Starts for Eevee_1:

(Start: 41 @116 has 142 MA's), (54, 200), (71, 380), (79, 434), (97, 590), (124, 839),

Gene: Elener_22 Start: 19028, Stop: 19921, Start Num: 36

Candidate Starts for Elener_22:

(1, 16841), (2, 16973), (3, 17729), (4, 18140), (6, 18302), (7, 18461), (8, 18482), (12, 18761), (25, 18902), (Start: 36 @19028 has 12 MA's), (44, 19052), (46, 19067), (52, 19112), (80, 19418), (81, 19430), (82, 19445), (111, 19664),

Gene: Eleri_23 Start: 18480, Stop: 19262, Start Num: 41

Candidate Starts for Eleri_23:

(Start: 41 @18480 has 142 MA's), (67, 18714), (83, 18831), (99, 18957), (127, 19179), (131, 19212),

Gene: Endor_25 Start: 18780, Stop: 19520, Start Num: 38

Candidate Starts for Endor_25:

(Start: 38 @18780 has 5 MA's), (Start: 45 @18813 has 1 MA's), (54, 18870), (69, 19020), (79, 19092), (90, 19167), (124, 19413), (133, 19473), (135, 19485),

Gene: Erla_24 Start: 18536, Stop: 19342, Start Num: 41

Candidate Starts for Erla_24:

(18, 18314), (24, 18395), (26, 18419), (Start: 35 @18530 has 3 MA's), (Start: 41 @18536 has 142 MA's), (78, 18851), (93, 18956), (100, 19037), (123, 19226), (124, 19235),

Gene: Espinosa_24 Start: 18554, Stop: 19360, Start Num: 41

Candidate Starts for Espinosa_24:

(Start: 41 @18554 has 142 MA's), (78, 18869), (93, 18974), (100, 19055), (123, 19244), (124, 19253),

Gene: Etna_24 Start: 18641, Stop: 19381, Start Num: 39

Candidate Starts for Etna_24:

(24, 18500), (Start: 39 @18641 has 11 MA's), (Start: 45 @18674 has 1 MA's), (54, 18731), (69, 18881), (79, 18953), (90, 19028), (94, 19058), (124, 19274),

Gene: Etta_24 Start: 18540, Stop: 19346, Start Num: 41

Candidate Starts for Etta_24:

(18, 18318), (24, 18399), (26, 18423), (Start: 35 @18534 has 3 MA's), (Start: 41 @18540 has 142 MA's), (78, 18855), (93, 18960), (100, 19041), (123, 19230), (124, 19239),

Gene: Exploradora_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Exploradora_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: FarmerDoug_24 Start: 18356, Stop: 19096, Start Num: 38

Candidate Starts for FarmerDoug_24:

(Start: 38 @18356 has 5 MA's), (Start: 45 @18389 has 1 MA's), (54, 18446), (69, 18596), (79, 18668), (90, 18743), (103, 18842), (108, 18878), (121, 18956), (124, 18989),

Gene: Figueroism_24 Start: 18243, Stop: 19049, Start Num: 41

Candidate Starts for Figueroism_24:

(18, 18021), (24, 18102), (26, 18126), (Start: 41 @18243 has 142 MA's), (78, 18558), (93, 18663), (100, 18744), (123, 18933),

Gene: Finny_23 Start: 18466, Stop: 19248, Start Num: 41

Candidate Starts for Finny_23:

(Start: 41 @18466 has 142 MA's), (67, 18700), (83, 18817), (99, 18943), (127, 19165), (131, 19198),

Gene: Forester_39 Start: 19652, Stop: 20449, Start Num: 36

Candidate Starts for Forester_39:

(14, 19412), (Start: 36 @19652 has 12 MA's), (49, 19700), (50, 19721), (58, 19763), (69, 19934), (73, 19970), (112, 20252), (116, 20264), (118, 20321),

Gene: Franklin22_21 Start: 16416, Stop: 17186, Start Num: 40

Candidate Starts for Franklin22_21:

(9, 15909), (10, 16089), (21, 16242), (Start: 40 @16416 has 11 MA's), (69, 16653), (74, 16683), (79, 16725), (122, 17067), (131, 17136),

Gene: Gack_20 Start: 16302, Stop: 17072, Start Num: 40

Candidate Starts for Gack_20:

(10, 15975), (21, 16128), (Start: 40 @16302 has 11 MA's), (69, 16539), (74, 16569), (79, 16611), (122, 16953), (131, 17022),

Gene: GardenB_24 Start: 18645, Stop: 19385, Start Num: 38

Candidate Starts for GardenB_24:

(32, 18576), (Start: 38 @18645 has 5 MA's), (Start: 45 @18678 has 1 MA's), (54, 18735), (64, 18858), (69, 18885), (90, 19032), (123, 19269), (124, 19278),

Gene: GardenState_21 Start: 18154, Stop: 19038, Start Num: 36

Candidate Starts for GardenState_21:

(Start: 36 @18154 has 12 MA's), (69, 18436), (92, 18619),

Gene: Garey24_24 Start: 18519, Stop: 19325, Start Num: 41

Candidate Starts for Garey24_24:

(18, 18297), (24, 18378), (26, 18402), (Start: 35 @18513 has 3 MA's), (Start: 41 @18519 has 142 MA's), (78, 18834), (93, 18939), (100, 19020), (123, 19209), (124, 19218),

Gene: Gargoyle_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Gargoyle_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Gelo_24 Start: 18540, Stop: 19346, Start Num: 41

Candidate Starts for Gelo_24:

(18, 18318), (24, 18399), (26, 18423), (Start: 35 @18534 has 3 MA's), (Start: 41 @18540 has 142 MA's), (78, 18855), (93, 18960), (100, 19041), (123, 19230), (124, 19239),

Gene: Gershwin_24 Start: 18556, Stop: 19362, Start Num: 41

Candidate Starts for Gershwin_24:

(Start: 41 @18556 has 142 MA's), (78, 18871), (93, 18976), (100, 19057), (123, 19246), (124, 19255),

Gene: Glamour_22 Start: 18468, Stop: 19250, Start Num: 41

Candidate Starts for Glamour_22:

(Start: 41 @18468 has 142 MA's), (67, 18702), (83, 18819), (99, 18945), (127, 19167), (131, 19200),

Gene: GoingMerry_24 Start: 18269, Stop: 19075, Start Num: 41

Candidate Starts for GoingMerry_24:

(24, 18128), (26, 18152), (Start: 41 @18269 has 142 MA's), (78, 18584), (93, 18689), (100, 18770), (123, 18959),

Gene: GoneGirl_25 Start: 18751, Stop: 19491, Start Num: 38

Candidate Starts for GoneGirl_25:

(32, 18682), (Start: 38 @18751 has 5 MA's), (Start: 45 @18784 has 1 MA's), (54, 18841), (64, 18964), (69, 18991), (90, 19138), (123, 19375), (124, 19384),

Gene: Gretchen_21 Start: 18931, Stop: 19728, Start Num: 36

Candidate Starts for Gretchen_21:

(14, 18691), (Start: 36 @18931 has 12 MA's), (49, 18979), (50, 19000), (58, 19042), (69, 19213), (73, 19249), (112, 19531), (116, 19543), (118, 19600),

Gene: Greys_24 Start: 18256, Stop: 19062, Start Num: 41

Candidate Starts for Greys_24:

(24, 18115), (26, 18139), (Start: 41 @18256 has 142 MA's), (78, 18571), (93, 18676), (100, 18757), (123, 18946),

Gene: Gshelby23_32 Start: 40996, Stop: 41742, Start Num: 41

Candidate Starts for Gshelby23_32:

(Start: 41 @40996 has 142 MA's), (Start: 45 @41023 has 1 MA's), (54, 41080), (68, 41221), (95, 41401), (98, 41434), (122, 41623), (133, 41695),

Gene: Gubbabump_24 Start: 18545, Stop: 19351, Start Num: 41

Candidate Starts for Gubbabump_24:

(Start: 41 @18545 has 142 MA's), (78, 18860), (93, 18965), (100, 19046), (123, 19235), (124, 19244),

Gene: HairyMan_22 Start: 18211, Stop: 19077, Start Num: 41

Candidate Starts for HairyMan_22:

(Start: 41 @18211 has 142 MA's), (65, 18433), (83, 18562), (99, 18688), (132, 18952), (134, 18955), (137, 19012), (139, 19027),

Gene: Hamlet_24 Start: 18648, Stop: 19388, Start Num: 39

Candidate Starts for Hamlet_24:

(Start: 39 @18648 has 11 MA's), (Start: 45 @18681 has 1 MA's), (54, 18738), (69, 18888), (79, 18960), (90, 19035), (94, 19065), (124, 19281),

Gene: HanSolo_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for HanSolo_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: HankSprout_25 Start: 18423, Stop: 19229, Start Num: 41

Candidate Starts for HankSprout_25:

(Start: 41 @18423 has 142 MA's), (78, 18738), (93, 18843), (100, 18924), (123, 19113), (124, 19122),

Gene: Hannabella_34 Start: 41037, Stop: 41783, Start Num: 41

Candidate Starts for Hannabella_34:

(Start: 41 @41037 has 142 MA's), (Start: 45 @41064 has 1 MA's), (54, 41121), (68, 41262), (95, 41442), (98, 41475), (122, 41664), (133, 41736),

Gene: HavenFinLeoSun_25 Start: 18488, Stop: 19309, Start Num: 37

Candidate Starts for HavenFinLeoSun_25:

(Start: 37 @18488 has 4 MA's), (Start: 45 @18521 has 1 MA's), (54, 18578), (69, 18740), (93, 18917), (100, 18998), (106, 19031), (133, 19259),

Gene: Honk_19 Start: 16206, Stop: 16907, Start Num: 41

Candidate Starts for Honk_19:

(11, 15921), (15, 15963), (Start: 41 @16206 has 142 MA's), (Start: 45 @16233 has 1 MA's), (69, 16440), (76, 16488), (79, 16512), (120, 16785), (124, 16842), (126, 16857),

Gene: HungryHenry_24 Start: 18553, Stop: 19359, Start Num: 41

Candidate Starts for HungryHenry_24:

(Start: 41 @18553 has 142 MA's), (78, 18868), (93, 18973), (100, 19054), (123, 19243), (124, 19252),

Gene: Huwbert_28 Start: 10411, Stop: 11349, Start Num: 41

Candidate Starts for Huwbert_28:

(Start: 41 @10411 has 142 MA's), (43, 10420), (Start: 45 @10438 has 1 MA's), (56, 10501), (69, 10657), (119, 11086),

Gene: IAmGroot_21 Start: 18815, Stop: 19699, Start Num: 36

Candidate Starts for IAmGroot_21:

(Start: 36 @18815 has 12 MA's), (69, 19097), (92, 19280),

Gene: Ilzat_24 Start: 18552, Stop: 19358, Start Num: 41

Candidate Starts for Ilzat_24:

(Start: 41 @18552 has 142 MA's), (78, 18867), (93, 18972), (100, 19053), (123, 19242), (124, 19251),

Gene: Inventa_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Inventa_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Ioannes_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Ioannes_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Janus167_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Janus167_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: JasonD_26 Start: 18670, Stop: 19491, Start Num: 37

Candidate Starts for JasonD_26:

(Start: 37 @18670 has 4 MA's), (Start: 45 @18703 has 1 MA's), (54, 18760), (69, 18922), (93, 19099), (100, 19180), (106, 19213), (122, 19369), (133, 19441),

Gene: JasperRussell_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for JasperRussell_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Jenos_26 Start: 18997, Stop: 19818, Start Num: 37

Candidate Starts for Jenos_26:

(27, 18886), (Start: 37 @18997 has 4 MA's), (Start: 45 @19030 has 1 MA's), (69, 19249), (93, 19426), (100, 19507), (106, 19540), (133, 19768),

Gene: Jerbirus_25 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Jerbirus_25:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: JeriBeth_25 Start: 18399, Stop: 19205, Start Num: 41

Candidate Starts for JeriBeth_25:

(Start: 41 @18399 has 142 MA's), (78, 18714), (93, 18819), (100, 18900), (123, 19089), (124, 19098),

Gene: JoyLin_1 Start: 116, Stop: 946, Start Num: 41

Candidate Starts for JoyLin_1:

(Start: 41 @116 has 142 MA's), (54, 200), (71, 380), (79, 434), (97, 590), (124, 839),

Gene: Juanyo_23 Start: 18651, Stop: 19424, Start Num: 41

Candidate Starts for Juanyo_23:

(24, 18513), (Start: 35 @18645 has 3 MA's), (Start: 41 @18651 has 142 MA's), (67, 18885), (78, 18966), (99, 19128), (128, 19344),

Gene: Kale_24 Start: 18558, Stop: 19364, Start Num: 41

Candidate Starts for Kale_24:

(Start: 41 @18558 has 142 MA's), (78, 18873), (93, 18978), (100, 19059), (123, 19248), (124, 19257),

Gene: KannH_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for KannH_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: KellyGreen_25 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for KellyGreen_25:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: KingJulien_24 Start: 18641, Stop: 19381, Start Num: 39

Candidate Starts for KingJulien_24:

(24, 18500), (Start: 39 @18641 has 11 MA's), (Start: 45 @18674 has 1 MA's), (54, 18731), (69, 18881), (79, 18953), (90, 19028), (124, 19274),

Gene: Klimt_24 Start: 18538, Stop: 19344, Start Num: 41

Candidate Starts for Klimt_24:

(18, 18316), (24, 18397), (26, 18421), (Start: 35 @18532 has 3 MA's), (Start: 41 @18538 has 142 MA's), (78, 18853), (93, 18958), (100, 19039), (123, 19228), (124, 19237),

Gene: Knox_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Knox_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Kouch_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Kouch_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Kurt1_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Kurt1_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Leafus_24 Start: 18786, Stop: 19526, Start Num: 39

Candidate Starts for Leafus_24:

(Start: 39 @18786 has 11 MA's), (Start: 45 @18819 has 1 MA's), (54, 18876), (69, 19026), (79, 19098), (124, 19419),

Gene: Lovelyunicorn_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Lovelyunicorn_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Ludgate_24 Start: 18255, Stop: 19061, Start Num: 41

Candidate Starts for Ludgate_24:

(18, 18033), (24, 18114), (26, 18138), (Start: 41 @18255 has 142 MA's), (78, 18570), (93, 18675), (100, 18756), (123, 18945),

Gene: MCubed_23 Start: 18494, Stop: 19276, Start Num: 41

Candidate Starts for MCubed_23:

(Start: 41 @18494 has 142 MA's), (67, 18728), (83, 18845), (99, 18971), (127, 19193), (131, 19226),

Gene: Mabodamaca_21 Start: 18203, Stop: 18886, Start Num: 45

Candidate Starts for Mabodamaca_21:

(Start: 41 @18176 has 142 MA's), (Start: 45 @18203 has 1 MA's), (62, 18347),

Gene: MaeLinda_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for MaeLinda_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: ManRay_24 Start: 18556, Stop: 19362, Start Num: 41

Candidate Starts for ManRay_24:

(Start: 41 @18556 has 142 MA's), (78, 18871), (93, 18976), (100, 19057), (123, 19246), (124, 19255),

Gene: Mandalorian_23 Start: 18676, Stop: 19539, Start Num: 41

Candidate Starts for Mandalorian_23:

(19, 18457), (Start: 41 @18676 has 142 MA's), (67, 18910), (68, 18916), (83, 19027), (99, 19153), (130, 19402), (132, 19414), (134, 19417), (139, 19489),

Gene: Martin_25 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Martin_25:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: McGalleon_25 Start: 19116, Stop: 19937, Start Num: 37

Candidate Starts for McGalleon_25:

(13, 18864), (28, 19017), (Start: 37 @19116 has 4 MA's), (Start: 45 @19149 has 1 MA's), (69, 19368), (93, 19545), (100, 19626), (106, 19659), (133, 19887),

Gene: Merida02_25 Start: 18258, Stop: 19064, Start Num: 41

Candidate Starts for Merida02_25:

(24, 18117), (26, 18141), (Start: 41 @18258 has 142 MA's), (78, 18573), (93, 18678), (100, 18759), (123, 18948),

Gene: MillyPhilly_24 Start: 18258, Stop: 19064, Start Num: 41

Candidate Starts for MillyPhilly_24:

(24, 18117), (26, 18141), (Start: 41 @18258 has 142 MA's), (78, 18573), (93, 18678), (100, 18759), (123, 18948),

Gene: MiniVolent_23 Start: 18638, Stop: 19411, Start Num: 41

Candidate Starts for MiniVolent_23:

(24, 18500), (Start: 35 @18632 has 3 MA's), (Start: 41 @18638 has 142 MA's), (67, 18872), (78, 18953), (99, 19115),

Gene: MonChoix_23 Start: 18301, Stop: 19041, Start Num: 38

Candidate Starts for MonChoix_23:

(Start: 38 @18301 has 5 MA's), (Start: 45 @18334 has 1 MA's), (54, 18391), (69, 18541), (79, 18613), (90, 18688), (124, 18934), (133, 18994),

Gene: MrWorldwide_24 Start: 18262, Stop: 19068, Start Num: 41

Candidate Starts for MrWorldwide_24:

(Start: 41 @18262 has 142 MA's), (78, 18577), (93, 18682), (100, 18763), (123, 18952),

Gene: Naby_17 Start: 12821, Stop: 13573, Start Num: 34

Candidate Starts for Naby_17:

(Start: 34 @12821 has 2 MA's), (42, 12830), (58, 12926), (63, 13028), (64, 13049), (69, 13076), (70, 13082), (71, 13094), (77, 13145), (87, 13208), (112, 13382), (118, 13451), (124, 13508), (126, 13523),

Gene: Nagem_24 Start: 18255, Stop: 19061, Start Num: 41

Candidate Starts for Nagem_24:

(18, 18033), (24, 18114), (26, 18138), (Start: 41 @18255 has 142 MA's), (78, 18570), (93, 18675), (100, 18756), (123, 18945),

Gene: Nattles_24 Start: 18536, Stop: 19348, Start Num: 35

Candidate Starts for Nattles_24:

(18, 18320), (24, 18401), (26, 18425), (Start: 35 @18536 has 3 MA's), (Start: 41 @18542 has 142 MA's), (78, 18857), (93, 18962), (100, 19043), (123, 19232), (124, 19241),

Gene: Nebulous_23 Start: 18708, Stop: 19520, Start Num: 41

Candidate Starts for Nebulous_23:

(Start: 41 @18708 has 142 MA's), (Start: 45 @18735 has 1 MA's), (57, 18801), (65, 18930), (76, 19002), (93, 19131), (100, 19212), (104, 19245), (123, 19404),

Gene: Neferthema_23 Start: 18721, Stop: 19533, Start Num: 41

Candidate Starts for Neferthema_23:

(Start: 41 @18721 has 142 MA's), (Start: 45 @18748 has 1 MA's), (53, 18787), (68, 18961), (75, 18997), (79, 19039), (93, 19144), (100, 19225), (123, 19417), (124, 19426),

Gene: NickSell_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for NickSell_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Nucci_23 Start: 18665, Stop: 19528, Start Num: 41

Candidate Starts for Nucci_23:

(19, 18446), (Start: 41 @18665 has 142 MA's), (67, 18899), (68, 18905), (83, 19016), (99, 19142), (130, 19391), (132, 19403), (134, 19406), (139, 19478),

Gene: Oats_24 Start: 18556, Stop: 19362, Start Num: 41

Candidate Starts for Oats_24:

(Start: 41 @18556 has 142 MA's), (78, 18871), (93, 18976), (100, 19057), (123, 19246), (124, 19255),

Gene: OldNelly_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for OldNelly_24:

(24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Olliecat_23 Start: 18597, Stop: 19451, Start Num: 36

Candidate Starts for Olliecat_23:

(Start: 36 @18597 has 12 MA's), (46, 18636), (59, 18741), (66, 18864), (79, 18978), (80, 18987), (83, 19014), (96, 19104), (101, 19140), (110, 19188), (128, 19374), (129, 19377), (131, 19404),

Gene: Oxtober96_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Oxtober96_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: PSirce_23 Start: 18483, Stop: 19265, Start Num: 41

Candidate Starts for PSirce_23:

(Start: 41 @18483 has 142 MA's), (67, 18717), (83, 18834), (99, 18960), (127, 19182), (131, 19215),

Gene: Papafritta_24 Start: 18552, Stop: 19358, Start Num: 41

Candidate Starts for Papafritta_24:

(Start: 41 @18552 has 142 MA's), (78, 18867), (93, 18972), (100, 19053), (123, 19242), (124, 19251),

Gene: ParleG_24 Start: 18262, Stop: 19068, Start Num: 41

Candidate Starts for ParleG_24:

(Start: 41 @18262 has 142 MA's), (78, 18577), (93, 18682), (100, 18763), (123, 18952),

Gene: Peep_24 Start: 18247, Stop: 19053, Start Num: 41

Candidate Starts for Peep_24:

(18, 18025), (24, 18106), (26, 18130), (Start: 41 @18247 has 142 MA's), (78, 18562), (93, 18667), (100, 18748), (123, 18937),

Gene: Peppino_24 Start: 18639, Stop: 19379, Start Num: 39

Candidate Starts for Peppino_24:

(Start: 39 @18639 has 11 MA's), (Start: 45 @18672 has 1 MA's), (54, 18729), (69, 18879), (79, 18951), (90, 19026), (94, 19056), (124, 19272),

Gene: Percival_21 Start: 18765, Stop: 19562, Start Num: 36

Candidate Starts for Percival_21:

(14, 18525), (Start: 36 @18765 has 12 MA's), (49, 18813), (50, 18834), (58, 18876), (69, 19047), (73, 19083), (112, 19365), (116, 19377), (118, 19434),

Gene: Phanita_23 Start: 18465, Stop: 19247, Start Num: 41

Candidate Starts for Phanita_23:

(Start: 41 @18465 has 142 MA's), (67, 18699), (83, 18816), (99, 18942), (127, 19164), (131, 19197),

Gene: Pherferi_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Pherferi_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Phiderman_24 Start: 18258, Stop: 19064, Start Num: 41

Candidate Starts for Phiderman_24:

(18, 18036), (24, 18117), (26, 18141), (Start: 41 @18258 has 142 MA's), (78, 18573), (93, 18678), (100, 18759), (123, 18948),

Gene: PhillyPhantom_24 Start: 18648, Stop: 19388, Start Num: 39

Candidate Starts for PhillyPhantom_24:

(Start: 39 @18648 has 11 MA's), (Start: 45 @18681 has 1 MA's), (54, 18738), (69, 18888), (79, 18960), (124, 19281),

Gene: Phireproof_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Phireproof_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: PhredFlintston_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for PhredFlintston_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Phriends_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Phriends_24:

(24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Pippin15_1 Start: 127, Stop: 969, Start Num: 41

Candidate Starts for Pippin15_1:

(33, 73), (Start: 41 @127 has 142 MA's), (54, 211), (71, 391), (97, 601), (117, 760),

Gene: Pocket_24 Start: 18541, Stop: 19347, Start Num: 41

Candidate Starts for Pocket_24:

(Start: 41 @18541 has 142 MA's), (78, 18856), (93, 18961), (100, 19042), (123, 19231), (124, 19240),

Gene: PuppyEggo_24 Start: 18256, Stop: 19062, Start Num: 41

Candidate Starts for PuppyEggo_24:

(18, 18034), (24, 18115), (26, 18139), (Start: 41 @18256 has 142 MA's), (78, 18571), (93, 18676), (100, 18757), (123, 18946), (124, 18955),

Gene: Quartz_23 Start: 18677, Stop: 19540, Start Num: 41

Candidate Starts for Quartz_23:

(19, 18458), (Start: 41 @18677 has 142 MA's), (67, 18911), (68, 18917), (83, 19028), (99, 19154), (130, 19403), (132, 19415), (134, 19418), (139, 19490),

Gene: Raccoon_24 Start: 18647, Stop: 19387, Start Num: 39

Candidate Starts for Raccoon_24:

(24, 18506), (Start: 39 @18647 has 11 MA's), (Start: 45 @18680 has 1 MA's), (54, 18737), (69, 18887), (79, 18959), (90, 19034), (124, 19280),

Gene: Rapheph_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Rapheph_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Raptor_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Raptor_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Redfield_24 Start: 18647, Stop: 19387, Start Num: 39

Candidate Starts for Redfield_24:

(Start: 39 @18647 has 11 MA's), (Start: 45 @18680 has 1 MA's), (54, 18737), (69, 18887), (79, 18959), (90, 19034), (94, 19064), (124, 19280),

Gene: Renzie_24 Start: 18247, Stop: 19053, Start Num: 41

Candidate Starts for Renzie_24:

(18, 18025), (24, 18106), (26, 18130), (Start: 41 @18247 has 142 MA's), (78, 18562), (93, 18667), (100, 18748), (123, 18937),

Gene: Riyhil_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Riyhil_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Robinson_24 Start: 18250, Stop: 19056, Start Num: 41

Candidate Starts for Robinson_24:

(18, 18028), (24, 18109), (26, 18133), (Start: 35 @18244 has 3 MA's), (Start: 41 @18250 has 142 MA's), (78, 18565), (93, 18670), (100, 18751), (123, 18940),

Gene: Rog141_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for Rog141_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Rollins_20 Start: 15893, Stop: 16774, Start Num: 40

Candidate Starts for Rollins_20:

(21, 15716), (Start: 40 @15893 has 11 MA's), (47, 15929), (69, 16175), (93, 16388), (100, 16469), (133, 16727),

Gene: RosieMae_24 Start: 18552, Stop: 19358, Start Num: 41

Candidate Starts for RosieMae_24:

(Start: 41 @18552 has 142 MA's), (78, 18867), (93, 18972), (100, 19053), (123, 19242), (124, 19251),

Gene: SJay_24 Start: 18256, Stop: 19062, Start Num: 41

Candidate Starts for SJay_24:

(18, 18034), (24, 18115), (26, 18139), (Start: 41 @18256 has 142 MA's), (78, 18571), (93, 18676), (100, 18757), (123, 18946),

Gene: Sansa_22 Start: 18490, Stop: 19272, Start Num: 41

Candidate Starts for Sansa_22:

(Start: 41 @18490 has 142 MA's), (67, 18724), (83, 18841), (99, 18967), (127, 19189), (131, 19222),

Gene: Saratos_23 Start: 18468, Stop: 19250, Start Num: 41
Candidate Starts for Saratos_23:
(Start: 41 @18468 has 142 MA's), (67, 18702), (83, 18819), (99, 18945), (127, 19167), (131, 19200),

Gene: Schnapsidee_24 Start: 18640, Stop: 19380, Start Num: 39
Candidate Starts for Schnapsidee_24:
(24, 18499), (Start: 39 @18640 has 11 MA's), (Start: 45 @18673 has 1 MA's), (54, 18730), (69, 18880),
(79, 18952), (90, 19027), (94, 19057), (124, 19273),

Gene: Scruffy_34 Start: 41322, Stop: 42068, Start Num: 41
Candidate Starts for Scruffy_34:
(Start: 41 @41322 has 142 MA's), (Start: 45 @41349 has 1 MA's), (54, 41406), (68, 41547), (98,
41760), (122, 41949), (133, 42021),

Gene: Sedgewig_24 Start: 18543, Stop: 19349, Start Num: 41
Candidate Starts for Sedgewig_24:
(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: ShaiHulud_24 Start: 18256, Stop: 19062, Start Num: 41
Candidate Starts for ShaiHulud_24:
(18, 18034), (24, 18115), (26, 18139), (Start: 41 @18256 has 142 MA's), (78, 18571), (93, 18676),
(100, 18757), (123, 18946), (124, 18955),

Gene: Shamu_23 Start: 18480, Stop: 19262, Start Num: 41
Candidate Starts for Shamu_23:
(Start: 41 @18480 has 142 MA's), (67, 18714), (83, 18831), (99, 18957), (127, 19179), (131, 19212),

Gene: Shee_24 Start: 18258, Stop: 19064, Start Num: 41
Candidate Starts for Shee_24:
(18, 18036), (24, 18117), (26, 18141), (Start: 41 @18258 has 142 MA's), (78, 18573), (93, 18678),
(100, 18759), (123, 18948),

Gene: Skylord_20 Start: 15838, Stop: 16722, Start Num: 40
Candidate Starts for Skylord_20:
(21, 15661), (Start: 40 @15838 has 11 MA's), (47, 15874), (69, 16120), (93, 16336), (100, 16417),
(105, 16453), (122, 16603), (133, 16675),

Gene: SoilGremlin_24 Start: 18258, Stop: 19064, Start Num: 41
Candidate Starts for SoilGremlin_24:
(24, 18117), (26, 18141), (Start: 41 @18258 has 142 MA's), (78, 18573), (93, 18678), (100, 18759),
(123, 18948),

Gene: SolidSnake_25 Start: 18261, Stop: 19067, Start Num: 41
Candidate Starts for SolidSnake_25:
(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681),
(100, 18762), (123, 18951),

Gene: SonOfLevi_24 Start: 18532, Stop: 19344, Start Num: 35
Candidate Starts for SonOfLevi_24:
(18, 18316), (24, 18397), (26, 18421), (Start: 35 @18532 has 3 MA's), (Start: 41 @18538 has 142
MA's), (78, 18853), (93, 18958), (100, 19039), (123, 19228), (124, 19237),

Gene: Soror1_24 Start: 18650, Stop: 19390, Start Num: 39

Candidate Starts for Soror1_24:

(24, 18509), (Start: 39 @18650 has 11 MA's), (Start: 45 @18683 has 1 MA's), (54, 18740), (69, 18890), (79, 18962), (90, 19037), (124, 19283),

Gene: Squiracle_23 Start: 18596, Stop: 19450, Start Num: 36

Candidate Starts for Squiracle_23:

(Start: 36 @18596 has 12 MA's), (46, 18635), (59, 18740), (66, 18863), (79, 18977), (80, 18986), (83, 19013), (96, 19103), (101, 19139), (110, 19187), (128, 19373), (129, 19376), (131, 19403),

Gene: Stanktossa_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for Stanktossa_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: StingRay_24 Start: 18552, Stop: 19358, Start Num: 41

Candidate Starts for StingRay_24:

(Start: 41 @18552 has 142 MA's), (78, 18867), (93, 18972), (100, 19053), (123, 19242), (124, 19251),

Gene: StirfryIV_24 Start: 18543, Stop: 19349, Start Num: 41

Candidate Starts for StirfryIV_24:

(Start: 41 @18543 has 142 MA's), (78, 18858), (93, 18963), (100, 19044), (123, 19233), (124, 19242),

Gene: Stormbreaker8_24 Start: 18641, Stop: 19381, Start Num: 39

Candidate Starts for Stormbreaker8_24:

(24, 18500), (Start: 39 @18641 has 11 MA's), (Start: 45 @18674 has 1 MA's), (54, 18731), (69, 18881), (79, 18953), (90, 19028), (124, 19274),

Gene: Strathdee_24 Start: 18260, Stop: 19066, Start Num: 41

Candidate Starts for Strathdee_24:

(24, 18119), (26, 18143), (Start: 41 @18260 has 142 MA's), (78, 18575), (93, 18680), (100, 18761), (123, 18950),

Gene: SuMoo_20 Start: 17131, Stop: 17841, Start Num: 41

Candidate Starts for SuMoo_20:

(Start: 41 @17131 has 142 MA's), (Start: 45 @17158 has 1 MA's), (89, 17479), (131, 17791),

Gene: SuperHands_22 Start: 19659, Stop: 20459, Start Num: 36

Candidate Starts for SuperHands_22:

(14, 19419), (Start: 36 @19659 has 12 MA's), (49, 19707), (50, 19728), (58, 19770), (69, 19941), (73, 19977), (112, 20262), (116, 20274), (118, 20331),

Gene: Superfresh_24 Start: 18247, Stop: 19053, Start Num: 41

Candidate Starts for Superfresh_24:

(18, 18025), (24, 18106), (26, 18130), (Start: 41 @18247 has 142 MA's), (78, 18562), (93, 18667), (100, 18748), (123, 18937),

Gene: Symere_24 Start: 18540, Stop: 19346, Start Num: 41

Candidate Starts for Symere_24:

(Start: 41 @18540 has 142 MA's), (78, 18855), (93, 18960), (100, 19041), (123, 19230), (124, 19239),

Gene: TatarkaPM_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for TatarkaPM_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Teagan_24 Start: 18255, Stop: 19061, Start Num: 41

Candidate Starts for Teagan_24:

(18, 18033), (24, 18114), (26, 18138), (Start: 41 @18255 has 142 MA's), (78, 18570), (93, 18675), (100, 18756), (123, 18945),

Gene: TeddyBear_24 Start: 18556, Stop: 19362, Start Num: 41

Candidate Starts for TeddyBear_24:

(Start: 41 @18556 has 142 MA's), (78, 18871), (93, 18976), (100, 19057), (123, 19246), (124, 19255),

Gene: Tenda_24 Start: 18554, Stop: 19360, Start Num: 41

Candidate Starts for Tenda_24:

(Start: 41 @18554 has 142 MA's), (78, 18869), (93, 18974), (100, 19055), (123, 19244), (124, 19253),

Gene: Thompsone_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Thompsone_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Thorongil_24 Start: 18256, Stop: 19062, Start Num: 41

Candidate Starts for Thorongil_24:

(18, 18034), (24, 18115), (26, 18139), (Start: 41 @18256 has 142 MA's), (78, 18571), (93, 18676), (100, 18757), (123, 18946), (124, 18955),

Gene: TinSulphur_24 Start: 18261, Stop: 19067, Start Num: 41

Candidate Starts for TinSulphur_24:

(18, 18039), (24, 18120), (26, 18144), (Start: 41 @18261 has 142 MA's), (78, 18576), (93, 18681), (100, 18762), (123, 18951),

Gene: Triscuit_27 Start: 10327, Stop: 11265, Start Num: 41

Candidate Starts for Triscuit_27:

(Start: 41 @10327 has 142 MA's), (43, 10336), (Start: 45 @10354 has 1 MA's), (56, 10417), (69, 10573), (119, 11002), (136, 11143),

Gene: UtzChips_20 Start: 17730, Stop: 18590, Start Num: 36

Candidate Starts for UtzChips_20:

(Start: 36 @17730 has 12 MA's), (86, 18150), (114, 18348),

Gene: Velene_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for Velene_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Vispitious_24 Start: 18256, Stop: 19062, Start Num: 41

Candidate Starts for Vispitious_24:

(18, 18034), (24, 18115), (26, 18139), (Start: 41 @18256 has 142 MA's), (78, 18571), (93, 18676), (100, 18757), (123, 18946), (124, 18955),

Gene: Vitas_20 Start: 15833, Stop: 16714, Start Num: 40

Candidate Starts for Vitas_20:

(21, 15656), (Start: 40 @15833 has 11 MA's), (47, 15869), (69, 16115), (93, 16328), (100, 16409), (133, 16667),

Gene: WildNOut_24 Start: 18259, Stop: 19065, Start Num: 41

Candidate Starts for WildNOut_24:

(24, 18118), (26, 18142), (Start: 41 @18259 has 142 MA's), (78, 18574), (93, 18679), (100, 18760), (123, 18949),

Gene: Winzigespinne_24 Start: 18542, Stop: 19348, Start Num: 41

Candidate Starts for Winzigespinne_24:

(Start: 41 @18542 has 142 MA's), (78, 18857), (93, 18962), (100, 19043), (123, 19232), (124, 19241),

Gene: Xebius_23 Start: 18468, Stop: 19250, Start Num: 41

Candidate Starts for Xebius_23:

(Start: 41 @18468 has 142 MA's), (67, 18702), (83, 18819), (99, 18945), (127, 19167), (131, 19200),

Gene: Yotsuba_1 Start: 116, Stop: 946, Start Num: 41

Candidate Starts for Yotsuba_1:

(Start: 41 @116 has 142 MA's), (54, 200), (71, 380), (79, 434), (97, 590), (124, 839),

Gene: YuuY_23 Start: 18668, Stop: 19531, Start Num: 41

Candidate Starts for YuuY_23:

(24, 18527), (Start: 41 @18668 has 142 MA's), (57, 18761), (67, 18902), (68, 18908), (99, 19145), (107, 19208), (132, 19406), (134, 19409), (138, 19478), (139, 19481),

Gene: Zada_24 Start: 18241, Stop: 19047, Start Num: 41

Candidate Starts for Zada_24:

(18, 18019), (24, 18100), (26, 18124), (Start: 41 @18241 has 142 MA's), (78, 18556), (93, 18661), (100, 18742), (123, 18931),

Gene: Zenitsu_23 Start: 18495, Stop: 19277, Start Num: 41

Candidate Starts for Zenitsu_23:

(Start: 41 @18495 has 142 MA's), (67, 18729), (83, 18846), (99, 18972), (127, 19194), (131, 19227),