

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 224349 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224349 has 153 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Erla_43, StingRay_43, Raptor_44, Aubergine_43, Garey24_44, Kale_43, Renzie_44, Winzigespinne_43, ManRay_43, Papafritta_43, TeddyBear_43, Baines_43, Pocket_43, Dave_44, Bonino_43, Klimt_44, Chamuel_43, Asta_43, Nattles_43, SonOfLevi_44, Gershwin_43, Superfresh_44, Espinosa_43, Rihhil_44, Calix_43, RosieMae_45, Christoph_43, Antoinette_44, Gelo_43, Etta_43, Oats_43, Tenda_43, Gubbabump_43
- Track 2 : MonChoix_41
- Track 3 : Dothraki_44, NickSell_44, Martin_45, Kurt1_44, Bandik_44, TatarkaPM_44, SJay_44, BeautPeep30_44, SoilGremlin_45, Inventa_44, Rappheph_44, Robinson_44, ParleG_44, OldNelly_45, Stanktossa_44, Phireproof_44, MillyPhilly_44, Delphidian_44, Zada_45, Phiderman_44, MrWorldwide_44, AlexAdler_44, Nagem_44, Phriends_44, Byron23_45, Pherferi_44, Shee_44, PhredFlintston_44, TinSulphur_45
- Track 4 : Schnapsidee_44, Redfield_44, BeeBee8_45
- Track 5 : BonesMcCoy_44, Ludgate_44, Strathdee_44, Vispistious_44, BigRedClifford_44, Thompsone_44, Oxtober96_45, Convict_44, WildNOut_44, Blage_44, Knox_44, AxiPup_44, ShaiHulud_45, Teagan_44, Figueroism_44, PuppyEggo_44, Lovelyunicorn_44, Den3_44, Velene_44
- Track 6 : KingJulien_44, Stormbreaker8_43
- Track 7 : HankSprout_44
- Track 8 : McGalleon_46
- Track 9 : Greys_44, Thorongil_44, StirfryIV_43, Benjalauren_44, Duocatuli_43, Exploradora_43, AranulaLuti_43, Ilzat_43, KannH_43, JeriBeth_45, Clancy_43, Symere_45, HungryHenry_43, Sedgewig_43, Janus167_43, Jerbirus_45, Chako_43, Rog141_43, JasperRussell_43
- Track 10 : Ioannes_44
- Track 11 : Peep_44
- Track 12 : Acosta_46
- Track 13 : Raccoon_44, Hamlet_44, Leafus_44
- Track 14 : FarmerDoug_43
- Track 15 : HanSolo_43
- Track 16 : Alyxandracam_44
- Track 17 : Endor_45
- Track 18 : Etna_44
- Track 19 : CarisSwetlik_47
- Track 20 : Gargoyle_44
- Track 21 : Anilorac_44

- Track 22 : Agente005_44
- Track 23 : JasonD_48
- Track 24 : GardenB_44
- Track 25 : Jenos_47
- Track 26 : MaeLinda_44
- Track 27 : YuuY_42
- Track 28 : Juanyo_41
- Track 29 : Carostasia_41, Nucci_41, Mandalorian_41, Quartz_42
- Track 30 : HairyMan_39
- Track 31 : WestPM_38
- Track 32 : ChikPic_42, Shamu_43, Saratos_42
- Track 33 : Zenitsu_42, MCubed_42
- Track 34 : Eleri_42
- Track 35 : Glamour_42, ColaCorta_42, Andromedas_42
- Track 36 : Phanita_41
- Track 37 : Finny_43
- Track 38 : Clock_41, Nebulous_40
- Track 39 : Neferthena_43
- Track 40 : Schubert_41
- Track 41 : ChickenKing_42, GaeCeo_44
- Track 42 : Cheeto1_44

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

The start number called the most often in the published annotations is 12, it was called in 112 of the 142 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agente005_44, AlexAdler_44, Alyxandracam_44, Anilorac_44, Antoinette_44, AranulaLuti_43, Asta_43, Aubergine_43, AxiPup_44, Baines_43, Bandik_44, BeautPeep30_44, BeeBee8_45, Benjalauren_44, BigRedClifford_44, Blage_44, BonesMcCoy_44, Bonino_43, Byron23_45, Calix_43, Chako_43, Chamuel_43, Christoph_43, Clancy_43, Convict_44, Dave_44, Delphidian_44, Den3_44, Dothraki_44, Duocatuli_43, Endor_45, Erla_43, Espinosa_43, Etna_44, Etta_43, Exploradora_43, FarmerDoug_43, Figueroism_44, GardenB_44, Garey24_44, Gargoyle_44, Gelo_43, Gershwin_43, Greys_44, Gubbabump_43, HanSolo_43, HankSprout_44, HungryHenry_43, Ilzat_43, Inventa_44, Ioannes_44, Janus167_43, JasperRussell_43, Jerbirus_45, JeriBeth_45, Kale_43, KannH_43, KingJulien_44, Klimt_44, Knox_44, Kurt1_44, Lovelyunicorn_44, Ludgate_44, MaeLinda_44, ManRay_43, Martin_45, MillyPhilly_44, MonChoix_41, MrWorldwide_44, Nagem_44, Nattles_43, NickSell_44, Oats_43, OldNelly_45, Oxtober96_45, Papafritta_43, ParleG_44, Peep_44, Pherferi_44, Phiderman_44, Phireproof_44, PhredFlintston_44, Phriends_44, Pocket_43, PuppyEggo_44, Rappheph_44, Raptor_44, Redfield_44, Renzie_44, Rihhil_44, Robinson_44, Rog141_43, RosieMae_45, SJay_44, Schnapsidee_44, Sedgewig_43, ShaiHulud_45, Shee_44, SoilGremlin_45, SonOfLevi_44, Stanktossa_44, StingRay_43, StirfryIV_43, Stormbreaker8_43, Strathdee_44, Superfresh_44, Symere_45, TatarkaPM_44, Teagan_44, TeddyBear_43, Tenda_43, Thompsone_44, Thorongil_44, TinSulphur_45, Velene_44, Vispistious_44, WildNOOut_44, Winzigespinne_43, Zada_45,

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

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

- Acosta_46, Andromedas_42, CarisSwetlik_47, Carostasia_41, Cheeto1_44, ChickenKing_42, ChikPic_42, Clock_41, ColaCorta_42, Eleri_42, Finny_43, GaeCeo_44, Glamour_42, HairyMan_39, Hamlet_44, JasonD_48, Jenos_47, Juanyo_41, Leafus_44, MCubed_42, Mandalorian_41, McGalleon_46, Nebulous_40, Neferthema_43, Nucci_41, Phanita_41, Quartz_42, Raccoon_44, Saratos_42, Schubert_41, Shamu_43, WestPM_38, YuuY_42, Zenitsu_42,

Summary by start number:

Start 11:

- Found in 1 of 153 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WestPM_38 (EA11),

Start 12:

- Found in 119 of 153 (77.8%) of genes in pham
- Manual Annotations of this start: 112 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agente005_44 (EA1), AlexAdler_44 (EA1), Alyxandracam_44 (EA1), Anilorac_44 (EA1), Antoinette_44 (EA1), AranulaLuti_43 (EA1), Asta_43 (EA1), Aubergine_43 (EA1), AxiPup_44 (EA1), Baines_43 (EA1), Bandik_44 (EA1), BeautPeep30_44 (EA1), BeeBee8_45 (EA1), Benjalauren_44 (EA1), BigRedClifford_44 (EA1), Blage_44 (EA1), BonesMcCoy_44 (EA1), Bonino_43 (EA1), Byron23_45 (EA1), Calix_43 (EA1), Chako_43 (EA1), Chamuel_43 (EA1), Christoph_43 (EA1), Clancy_43 (EA1), Convict_44 (EA1), Dave_44 (EA1), Delphidian_44 (EA1), Den3_44 (EA1), Dothraki_44 (EA1), Duocatuli_43 (EA1), Endor_45 (EA1), Erla_43 (EA1), Espinosa_43 (EA1), Etna_44 (EA1), Etta_43 (EA1), Exploradora_43 (EA1), FarmerDoug_43 (EA1), Figueroism_44 (EA1), GardenB_44 (EA1), Garey24_44 (EA1), Gargoyle_44 (EA1), Gelo_43 (EA1), Gershwin_43 (EA1), Greys_44 (EA1), Gubbabump_43 (EA1), HanSolo_43 (EA1), HankSprout_44 (EA1), HungryHenry_43 (EA1), Ilzat_43 (EA1), Inventa_44 (EA1), Ioannes_44 (EA1), Janus167_43 (EA1), JasperRussell_43 (EA1), Jerbirus_45 (EA1), JeriBeth_45 (EA1), Kale_43 (EA1), KannH_43 (EA1), KingJulien_44 (EA1), Klimt_44 (EA1), Knox_44 (EA1), Kurt1_44 (EA1), Lovelyunicorn_44 (EA1), Ludgate_44 (EA1), MaeLinda_44 (EA1), ManRay_43 (EA1), Martin_45 (EA1), MillyPhilly_44 (EA1), MonChoix_41 (EA1), MrWorldwide_44 (EA1), Nagem_44 (EA1), Nattles_43 (EA1), NickSell_44 (EA1), Oats_43 (EA1), OldNelly_45 (EA1), Oxtober96_45 (EA1), Papafritta_43 (EA1), ParleG_44 (EA1), Peep_44 (EA1), Pherferi_44 (EA1), Phiderman_44 (EA1), Phireproof_44 (EA1), PhredFlintston_44 (EA1), Phriends_44 (EA1), Pocket_43 (EA1), PuppyEggo_44 (EA1), Rappheph_44 (EA1), Raptor_44 (EA1), Redfield_44 (EA1), Renzie_44 (EA1), Riyhil_44 (EA1), Robinson_44 (EA1), Rog141_43 (EA1), RosieMae_45 (EA1), SJay_44 (EA1), Schnapsidee_44 (EA1), Sedgewig_43 (EA1), ShaiHulud_45 (EA1), Shee_44 (EA1), SoilGremlin_45 (EA1), SonOfLevi_44 (EA1), Stanktossa_44 (EA1), StingRay_43 (EA1), StirfryIV_43 (EA1), Stormbreaker8_43 (EA1), Strathdee_44 (EA1), Superfresh_44 (EA1), Symere_45 (EA1), TatarkaPM_44 (EA1), Teagan_44 (EA1), TeddyBear_43 (EA1), Tenda_43 (EA1), Thompsone_44 (EA1), Thorongil_44 (EA1), TinSulphur_45 (EA1), Velene_44 (EA1), Vispistious_44 (EA1), WildNOut_44 (EA1), Winzigespinne_43 (EA1), Zada_45

(EA1),

Start 13:

- Found in 4 of 153 (2.6%) of genes in pham
- Manual Annotations of this start: 4 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cheeto1_44 (EA9), ChickenKing_42 (EA9), GaeCeo_44 (EA9), Schubert_41 (EA8),

Start 15:

- Found in 17 of 153 (11.1%) of genes in pham
- Manual Annotations of this start: 15 of 142
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Andromedas_42 (EA2), Carostasia_41 (EA10), ChikPic_42 (EA2), ColaCorta_42 (EA2), Eleri_42 (EA2), Glamour_42 (EA2), Juanyo_41 (EA10), MCubed_42 (EA2), Mandalorian_41 (EA10), Nucci_41 (EA10), Phanita_41 (EA2), Quartz_42 (EA10), Saratos_42 (EA2), Shamu_43 (EA2), Yuyu_42 (EA10), Zenitsu_42 (EA2),

Start 16:

- Found in 1 of 153 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HairyMan_39 (EA10),

Start 17:

- Found in 3 of 153 (2.0%) of genes in pham
- Manual Annotations of this start: 3 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clock_41 (EA5), Nebulous_40 (EA5), Neferthena_43 (EA5),

Start 18:

- Found in 8 of 153 (5.2%) of genes in pham
- Manual Annotations of this start: 6 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta_46 (EA1), CarisSwetlik_47 (EA1), Hamlet_44 (EA1), JasonD_48 (EA1), Jenos_47 (EA1), Leafus_44 (EA1), McGalleon_46 (EA1), Raccoon_44 (EA1),

Start 19:

- Found in 13 of 153 (8.5%) of genes in pham
- Manual Annotations of this start: 1 of 142
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Finny_43 (EA2),

Summary by clusters:

There are 7 clusters represented in this pham: EA11, EA10, EA9, EA8, EA1, EA2, EA5,

Info for manual annotations of cluster EA1:

- Start number 12 was manually annotated 112 times for cluster EA1.

- Start number 18 was manually annotated 6 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 15 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 11 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 15 was manually annotated 9 times for cluster EA2.
- Start number 19 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA5:

- Start number 17 was manually annotated 3 times for cluster EA5.

Info for manual annotations of cluster EA8:

- Start number 13 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 13 was manually annotated 3 times for cluster EA9.

Gene Information:

Gene: Acosta_46 Start: 32413, Stop: 32150, Start Num: 18

Candidate Starts for Acosta_46:

(Start: 18 @32413 has 6 MA's), (35, 32314), (44, 32233), (49, 32188),

Gene: Agente005_44 Start: 32146, Stop: 31868, Start Num: 12

Candidate Starts for Agente005_44:

(Start: 12 @32146 has 112 MA's), (20, 32110), (37, 31999), (50, 31894), (51, 31891),

Gene: AlexAdler_44 Start: 32273, Stop: 31995, Start Num: 12

Candidate Starts for AlexAdler_44:

(Start: 12 @32273 has 112 MA's), (26, 32201), (28, 32192), (37, 32126), (48, 32030), (50, 32021),

Gene: Alyxandracam_44 Start: 32283, Stop: 32005, Start Num: 12

Candidate Starts for Alyxandracam_44:

(Start: 12 @32283 has 112 MA's), (14, 32277), (26, 32211), (28, 32202), (37, 32136), (48, 32040), (50, 32031),

Gene: Andromedas_42 Start: 31517, Stop: 31239, Start Num: 15

Candidate Starts for Andromedas_42:

(8, 31565), (9, 31562), (Start: 15 @31517 has 15 MA's), (Start: 19 @31490 has 1 MA's), (29, 31436), (32, 31424), (38, 31361), (40, 31352), (47, 31277), (50, 31265),

Gene: Anilorac_44 Start: 32091, Stop: 31813, Start Num: 12

Candidate Starts for Anilorac_44:

(Start: 12 @32091 has 112 MA's), (14, 32085), (20, 32055), (37, 31944), (50, 31839), (51, 31836),

Gene: Antoinette_44 Start: 32273, Stop: 31995, Start Num: 12

Candidate Starts for Antoinette_44:

(Start: 12 @32273 has 112 MA's), (26, 32201), (28, 32192), (37, 32126), (48, 32030), (50, 32021),

Gene: AranulaLuti_43 Start: 31967, Stop: 31689, Start Num: 12

Candidate Starts for AranulaLuti_43:

(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: Asta_43 Start: 31980, Stop: 31702, Start Num: 12

Candidate Starts for Asta_43:

(Start: 12 @31980 has 112 MA's), (26, 31908), (28, 31899), (37, 31833), (48, 31737), (50, 31728),

Gene: Aubergine_43 Start: 31980, Stop: 31702, Start Num: 12

Candidate Starts for Aubergine_43:

(Start: 12 @31980 has 112 MA's), (26, 31908), (28, 31899), (37, 31833), (48, 31737), (50, 31728),

Gene: AxiPup_44 Start: 32252, Stop: 31974, Start Num: 12

Candidate Starts for AxiPup_44:

(Start: 12 @32252 has 112 MA's), (26, 32180), (28, 32171), (37, 32105), (48, 32009), (50, 32000),

Gene: Baines_43 Start: 31973, Stop: 31695, Start Num: 12

Candidate Starts for Baines_43:

(Start: 12 @31973 has 112 MA's), (26, 31901), (28, 31892), (37, 31826), (48, 31730), (50, 31721),

Gene: Bandik_44 Start: 32278, Stop: 32000, Start Num: 12

Candidate Starts for Bandik_44:

(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: BeautPeep30_44 Start: 32284, Stop: 32006, Start Num: 12

Candidate Starts for BeautPeep30_44:

(Start: 12 @32284 has 112 MA's), (26, 32212), (28, 32203), (37, 32137), (48, 32041), (50, 32032),

Gene: BeeBee8_45 Start: 32304, Stop: 32026, Start Num: 12

Candidate Starts for BeeBee8_45:

(Start: 12 @32304 has 112 MA's), (37, 32157), (50, 32052),

Gene: Benjalauren_44 Start: 31983, Stop: 31705, Start Num: 12

Candidate Starts for Benjalauren_44:

(Start: 12 @31983 has 112 MA's), (26, 31911), (28, 31902), (37, 31836), (48, 31740), (50, 31731),

Gene: BigRedClifford_44 Start: 32282, Stop: 32004, Start Num: 12

Candidate Starts for BigRedClifford_44:

(Start: 12 @32282 has 112 MA's), (26, 32210), (28, 32201), (37, 32135), (48, 32039), (50, 32030),

Gene: Blage_44 Start: 32282, Stop: 32004, Start Num: 12

Candidate Starts for Blage_44:

(Start: 12 @32282 has 112 MA's), (26, 32210), (28, 32201), (37, 32135), (48, 32039), (50, 32030),

Gene: BonesMcCoy_44 Start: 32282, Stop: 32004, Start Num: 12

Candidate Starts for BonesMcCoy_44:

(Start: 12 @32282 has 112 MA's), (26, 32210), (28, 32201), (37, 32135), (48, 32039), (50, 32030),

Gene: Bonino_43 Start: 31959, Stop: 31681, Start Num: 12

Candidate Starts for Bonino_43:

(Start: 12 @31959 has 112 MA's), (26, 31887), (28, 31878), (37, 31812), (48, 31716), (50, 31707),

Gene: Byron23_45 Start: 32281, Stop: 32003, Start Num: 12
Candidate Starts for Byron23_45:
(Start: 12 @32281 has 112 MA's), (26, 32209), (28, 32200), (37, 32134), (48, 32038), (50, 32029),

Gene: Calix_43 Start: 31966, Stop: 31688, Start Num: 12
Candidate Starts for Calix_43:
(Start: 12 @31966 has 112 MA's), (26, 31894), (28, 31885), (37, 31819), (48, 31723), (50, 31714),

Gene: CarisSwetlik_47 Start: 32697, Stop: 32434, Start Num: 18
Candidate Starts for CarisSwetlik_47:
(1, 32937), (3, 32913), (7, 32817), (Start: 18 @32697 has 6 MA's), (33, 32610), (35, 32598),

Gene: Carostasia_41 Start: 31061, Stop: 30786, Start Num: 15
Candidate Starts for Carostasia_41:
(Start: 15 @31061 has 15 MA's), (Start: 19 @31034 has 1 MA's), (25, 30998), (50, 30818), (51, 30815),

Gene: Chako_43 Start: 31967, Stop: 31689, Start Num: 12
Candidate Starts for Chako_43:
(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: Chamuel_43 Start: 31992, Stop: 31714, Start Num: 12
Candidate Starts for Chamuel_43:
(Start: 12 @31992 has 112 MA's), (26, 31920), (28, 31911), (37, 31845), (48, 31749), (50, 31740),

Gene: Cheeto1_44 Start: 31744, Stop: 31463, Start Num: 13
Candidate Starts for Cheeto1_44:
(Start: 13 @31744 has 4 MA's), (21, 31708), (30, 31660), (33, 31630), (38, 31588),

Gene: ChickenKing_42 Start: 31637, Stop: 31356, Start Num: 13
Candidate Starts for ChickenKing_42:
(4, 31778), (Start: 13 @31637 has 4 MA's), (21, 31601), (30, 31553), (33, 31523), (38, 31481),

Gene: ChikPic_42 Start: 31371, Stop: 31093, Start Num: 15
Candidate Starts for ChikPic_42:
(8, 31419), (9, 31416), (Start: 15 @31371 has 15 MA's), (Start: 19 @31344 has 1 MA's), (32, 31278),
(38, 31215), (40, 31206), (47, 31131), (50, 31119),

Gene: Christoph_43 Start: 31979, Stop: 31701, Start Num: 12
Candidate Starts for Christoph_43:
(Start: 12 @31979 has 112 MA's), (26, 31907), (28, 31898), (37, 31832), (48, 31736), (50, 31727),

Gene: Clancy_43 Start: 32012, Stop: 31734, Start Num: 12
Candidate Starts for Clancy_43:
(Start: 12 @32012 has 112 MA's), (26, 31940), (28, 31931), (37, 31865), (48, 31769), (50, 31760),

Gene: Clock_41 Start: 32201, Stop: 31950, Start Num: 17
Candidate Starts for Clock_41:
(Start: 17 @32201 has 3 MA's), (22, 32177), (24, 32174), (26, 32156), (43, 32027),

Gene: ColaCorta_42 Start: 31517, Stop: 31239, Start Num: 15
Candidate Starts for ColaCorta_42:

(8, 31565), (9, 31562), (Start: 15 @31517 has 15 MA's), (Start: 19 @31490 has 1 MA's), (29, 31436), (32, 31424), (38, 31361), (40, 31352), (47, 31277), (50, 31265),

Gene: Convict_44 Start: 32282, Stop: 32004, Start Num: 12

Candidate Starts for Convict_44:

(Start: 12 @32282 has 112 MA's), (26, 32210), (28, 32201), (37, 32135), (48, 32039), (50, 32030),

Gene: Dave_44 Start: 32273, Stop: 31995, Start Num: 12

Candidate Starts for Dave_44:

(Start: 12 @32273 has 112 MA's), (26, 32201), (28, 32192), (37, 32126), (48, 32030), (50, 32021),

Gene: Delphidian_44 Start: 32281, Stop: 32003, Start Num: 12

Candidate Starts for Delphidian_44:

(Start: 12 @32281 has 112 MA's), (26, 32209), (28, 32200), (37, 32134), (48, 32038), (50, 32029),

Gene: Den3_44 Start: 32287, Stop: 32009, Start Num: 12

Candidate Starts for Den3_44:

(Start: 12 @32287 has 112 MA's), (26, 32215), (28, 32206), (37, 32140), (48, 32044), (50, 32035),

Gene: Dothraki_44 Start: 32281, Stop: 32003, Start Num: 12

Candidate Starts for Dothraki_44:

(Start: 12 @32281 has 112 MA's), (26, 32209), (28, 32200), (37, 32134), (48, 32038), (50, 32029),

Gene: Duocatuli_43 Start: 31967, Stop: 31689, Start Num: 12

Candidate Starts for Duocatuli_43:

(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: Eleri_42 Start: 31361, Stop: 31083, Start Num: 15

Candidate Starts for Eleri_42:

(8, 31409), (9, 31406), (Start: 15 @31361 has 15 MA's), (27, 31289), (29, 31280), (40, 31196), (47, 31121), (50, 31109),

Gene: Endor_45 Start: 32376, Stop: 32098, Start Num: 12

Candidate Starts for Endor_45:

(Start: 12 @32376 has 112 MA's), (26, 32304), (29, 32289), (37, 32229),

Gene: Erla_43 Start: 31963, Stop: 31685, Start Num: 12

Candidate Starts for Erla_43:

(Start: 12 @31963 has 112 MA's), (26, 31891), (28, 31882), (37, 31816), (48, 31720), (50, 31711),

Gene: Espinosa_43 Start: 31978, Stop: 31700, Start Num: 12

Candidate Starts for Espinosa_43:

(Start: 12 @31978 has 112 MA's), (26, 31906), (28, 31897), (37, 31831), (48, 31735), (50, 31726),

Gene: Etna_44 Start: 32180, Stop: 31902, Start Num: 12

Candidate Starts for Etna_44:

(Start: 12 @32180 has 112 MA's), (37, 32033), (50, 31928),

Gene: Etta_43 Start: 31967, Stop: 31689, Start Num: 12

Candidate Starts for Etta_43:

(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: Exploradora_43 Start: 31967, Stop: 31689, Start Num: 12

Candidate Starts for Exploradora_43:
(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: FarmerDoug_43 Start: 31886, Stop: 31608, Start Num: 12
Candidate Starts for FarmerDoug_43:
(Start: 12 @31886 has 112 MA's), (20, 31850), (37, 31739), (50, 31634),

Gene: Figueroism_44 Start: 32272, Stop: 31994, Start Num: 12
Candidate Starts for Figueroism_44:
(Start: 12 @32272 has 112 MA's), (26, 32200), (28, 32191), (37, 32125), (48, 32029), (50, 32020),

Gene: Finny_43 Start: 31328, Stop: 31077, Start Num: 19
Candidate Starts for Finny_43:
(8, 31403), (9, 31400), (Start: 15 @31355 has 15 MA's), (Start: 19 @31328 has 1 MA's), (32, 31262),
(40, 31190), (47, 31115), (50, 31103), (51, 31100),

Gene: GaeCeo_44 Start: 31870, Stop: 31589, Start Num: 13
Candidate Starts for GaeCeo_44:
(4, 32011), (Start: 13 @31870 has 4 MA's), (21, 31834), (30, 31786), (33, 31756), (38, 31714),

Gene: GardenB_44 Start: 32121, Stop: 31843, Start Num: 12
Candidate Starts for GardenB_44:
(Start: 12 @32121 has 112 MA's), (35, 31995), (37, 31974), (46, 31893), (48, 31878), (50, 31869),

Gene: Garey24_44 Start: 31946, Stop: 31668, Start Num: 12
Candidate Starts for Garey24_44:
(Start: 12 @31946 has 112 MA's), (26, 31874), (28, 31865), (37, 31799), (48, 31703), (50, 31694),

Gene: Gargoyle_44 Start: 32287, Stop: 32009, Start Num: 12
Candidate Starts for Gargoyle_44:
(Start: 12 @32287 has 112 MA's), (26, 32215), (28, 32206), (37, 32140), (48, 32044), (50, 32035),

Gene: Gelo_43 Start: 31973, Stop: 31695, Start Num: 12
Candidate Starts for Gelo_43:
(Start: 12 @31973 has 112 MA's), (26, 31901), (28, 31892), (37, 31826), (48, 31730), (50, 31721),

Gene: Gershwin_43 Start: 31980, Stop: 31702, Start Num: 12
Candidate Starts for Gershwin_43:
(Start: 12 @31980 has 112 MA's), (26, 31908), (28, 31899), (37, 31833), (48, 31737), (50, 31728),

Gene: Glamour_42 Start: 31509, Stop: 31231, Start Num: 15
Candidate Starts for Glamour_42:
(8, 31557), (9, 31554), (Start: 15 @31509 has 15 MA's), (Start: 19 @31482 has 1 MA's), (29, 31428),
(32, 31416), (38, 31353), (40, 31344), (47, 31269), (50, 31257),

Gene: Greys_44 Start: 32280, Stop: 32002, Start Num: 12
Candidate Starts for Greys_44:
(Start: 12 @32280 has 112 MA's), (26, 32208), (28, 32199), (37, 32133), (48, 32037), (50, 32028),

Gene: Gubbabump_43 Start: 31960, Stop: 31682, Start Num: 12
Candidate Starts for Gubbabump_43:
(Start: 12 @31960 has 112 MA's), (26, 31888), (28, 31879), (37, 31813), (48, 31717), (50, 31708),

Gene: HairyMan_39 Start: 30605, Stop: 30336, Start Num: 16
Candidate Starts for HairyMan_39:
(16, 30605), (23, 30578), (24, 30575), (33, 30509), (35, 30497), (51, 30362),

Gene: Hamlet_44 Start: 32123, Stop: 31866, Start Num: 18
Candidate Starts for Hamlet_44:
(Start: 18 @32123 has 6 MA's), (34, 32027),

Gene: HanSolo_43 Start: 31967, Stop: 31689, Start Num: 12
Candidate Starts for HanSolo_43:
(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (45, 31742), (48, 31724), (50, 31715),

Gene: HankSprout_44 Start: 31847, Stop: 31569, Start Num: 12
Candidate Starts for HankSprout_44:
(Start: 12 @31847 has 112 MA's), (26, 31775), (28, 31766), (37, 31700), (48, 31604), (50, 31595),

Gene: HungryHenry_43 Start: 31972, Stop: 31694, Start Num: 12
Candidate Starts for HungryHenry_43:
(Start: 12 @31972 has 112 MA's), (26, 31900), (28, 31891), (37, 31825), (48, 31729), (50, 31720),

Gene: Ilzat_43 Start: 31983, Stop: 31705, Start Num: 12
Candidate Starts for Ilzat_43:
(Start: 12 @31983 has 112 MA's), (26, 31911), (28, 31902), (37, 31836), (48, 31740), (50, 31731),

Gene: Inventa_44 Start: 32278, Stop: 32000, Start Num: 12
Candidate Starts for Inventa_44:
(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: Ioannes_44 Start: 32282, Stop: 32004, Start Num: 12
Candidate Starts for Ioannes_44:
(10, 32315), (Start: 12 @32282 has 112 MA's), (26, 32210), (28, 32201), (37, 32135), (48, 32039), (50, 32030),

Gene: Janus167_43 Start: 31967, Stop: 31689, Start Num: 12
Candidate Starts for Janus167_43:
(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: JasonD_48 Start: 32341, Stop: 32078, Start Num: 18
Candidate Starts for JasonD_48:
(Start: 18 @32341 has 6 MA's), (35, 32242), (42, 32170),

Gene: JasperRussell_43 Start: 31967, Stop: 31689, Start Num: 12
Candidate Starts for JasperRussell_43:
(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: Jenos_47 Start: 32980, Stop: 32717, Start Num: 18
Candidate Starts for Jenos_47:
(1, 33220), (3, 33196), (7, 33100), (Start: 18 @32980 has 6 MA's), (35, 32881),

Gene: Jerbirus_45 Start: 31967, Stop: 31689, Start Num: 12
Candidate Starts for Jerbirus_45:
(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: JeriBeth_45 Start: 31830, Stop: 31552, Start Num: 12

Candidate Starts for JeriBeth_45:

(Start: 12 @31830 has 112 MA's), (26, 31758), (28, 31749), (37, 31683), (48, 31587), (50, 31578),

Gene: Juanyo_41 Start: 30992, Stop: 30714, Start Num: 15

Candidate Starts for Juanyo_41:

(Start: 15 @30992 has 15 MA's), (Start: 19 @30965 has 1 MA's), (32, 30899), (36, 30857), (39, 30833), (50, 30740), (51, 30737),

Gene: Kale_43 Start: 31982, Stop: 31704, Start Num: 12

Candidate Starts for Kale_43:

(Start: 12 @31982 has 112 MA's), (26, 31910), (28, 31901), (37, 31835), (48, 31739), (50, 31730),

Gene: KannH_43 Start: 31967, Stop: 31689, Start Num: 12

Candidate Starts for KannH_43:

(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: KingJulien_44 Start: 32016, Stop: 31738, Start Num: 12

Candidate Starts for KingJulien_44:

(Start: 12 @32016 has 112 MA's), (20, 31980), (37, 31869), (50, 31764),

Gene: Klimt_44 Start: 31998, Stop: 31720, Start Num: 12

Candidate Starts for Klimt_44:

(Start: 12 @31998 has 112 MA's), (26, 31926), (28, 31917), (37, 31851), (48, 31755), (50, 31746),

Gene: Knox_44 Start: 32282, Stop: 32004, Start Num: 12

Candidate Starts for Knox_44:

(Start: 12 @32282 has 112 MA's), (26, 32210), (28, 32201), (37, 32135), (48, 32039), (50, 32030),

Gene: Kurt1_44 Start: 32278, Stop: 32000, Start Num: 12

Candidate Starts for Kurt1_44:

(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: Leafus_44 Start: 32277, Stop: 32020, Start Num: 18

Candidate Starts for Leafus_44:

(Start: 18 @32277 has 6 MA's), (34, 32181),

Gene: Lovelyunicorn_44 Start: 32283, Stop: 32005, Start Num: 12

Candidate Starts for Lovelyunicorn_44:

(Start: 12 @32283 has 112 MA's), (26, 32211), (28, 32202), (37, 32136), (48, 32040), (50, 32031),

Gene: Ludgate_44 Start: 32281, Stop: 32003, Start Num: 12

Candidate Starts for Ludgate_44:

(Start: 12 @32281 has 112 MA's), (26, 32209), (28, 32200), (37, 32134), (48, 32038), (50, 32029),

Gene: MCubed_42 Start: 31386, Stop: 31108, Start Num: 15

Candidate Starts for MCubed_42:

(8, 31434), (9, 31431), (Start: 15 @31386 has 15 MA's), (27, 31314), (29, 31305), (38, 31230), (40, 31221), (50, 31134),

Gene: MaeLinda_44 Start: 32282, Stop: 32004, Start Num: 12

Candidate Starts for MaeLinda_44:

(Start: 12 @32282 has 112 MA's), (26, 32210), (28, 32201), (37, 32135), (48, 32039), (50, 32030),

Gene: ManRay_43 Start: 31980, Stop: 31702, Start Num: 12

Candidate Starts for ManRay_43:

(Start: 12 @31980 has 112 MA's), (26, 31908), (28, 31899), (37, 31833), (48, 31737), (50, 31728),

Gene: Mandalorian_41 Start: 31071, Stop: 30796, Start Num: 15

Candidate Starts for Mandalorian_41:

(Start: 15 @31071 has 15 MA's), (Start: 19 @31044 has 1 MA's), (25, 31008), (50, 30828), (51, 30825),

Gene: Martin_45 Start: 32287, Stop: 32009, Start Num: 12

Candidate Starts for Martin_45:

(Start: 12 @32287 has 112 MA's), (26, 32215), (28, 32206), (37, 32140), (48, 32044), (50, 32035),

Gene: McGalleon_46 Start: 33191, Stop: 32928, Start Num: 18

Candidate Starts for McGalleon_46:

(1, 33431), (3, 33407), (7, 33311), (Start: 18 @33191 has 6 MA's), (33, 33104), (35, 33092), (41, 33050), (48, 32969),

Gene: MillyPhilly_44 Start: 32275, Stop: 31997, Start Num: 12

Candidate Starts for MillyPhilly_44:

(Start: 12 @32275 has 112 MA's), (26, 32203), (28, 32194), (37, 32128), (48, 32032), (50, 32023),

Gene: MonChoix_41 Start: 31728, Stop: 31450, Start Num: 12

Candidate Starts for MonChoix_41:

(Start: 12 @31728 has 112 MA's), (37, 31581), (50, 31476), (51, 31473),

Gene: MrWorldwide_44 Start: 32285, Stop: 32007, Start Num: 12

Candidate Starts for MrWorldwide_44:

(Start: 12 @32285 has 112 MA's), (26, 32213), (28, 32204), (37, 32138), (48, 32042), (50, 32033),

Gene: Nagem_44 Start: 32278, Stop: 32000, Start Num: 12

Candidate Starts for Nagem_44:

(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: Nattles_43 Start: 31967, Stop: 31689, Start Num: 12

Candidate Starts for Nattles_43:

(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: Nebulous_40 Start: 32382, Stop: 32131, Start Num: 17

Candidate Starts for Nebulous_40:

(Start: 17 @32382 has 3 MA's), (22, 32358), (24, 32355), (26, 32337), (43, 32208),

Gene: Neferthena_43 Start: 31723, Stop: 31472, Start Num: 17

Candidate Starts for Neferthena_43:

(Start: 17 @31723 has 3 MA's), (22, 31699), (24, 31696), (43, 31549),

Gene: NickSell_44 Start: 32288, Stop: 32010, Start Num: 12

Candidate Starts for NickSell_44:

(Start: 12 @32288 has 112 MA's), (26, 32216), (28, 32207), (37, 32141), (48, 32045), (50, 32036),

Gene: Nucci_41 Start: 31054, Stop: 30779, Start Num: 15

Candidate Starts for Nucci_41:

(Start: 15 @31054 has 15 MA's), (Start: 19 @31027 has 1 MA's), (25, 30991), (50, 30811), (51, 30808),

Gene: Oats_43 Start: 31980, Stop: 31702, Start Num: 12

Candidate Starts for Oats_43:

(Start: 12 @31980 has 112 MA's), (26, 31908), (28, 31899), (37, 31833), (48, 31737), (50, 31728),

Gene: OldNelly_45 Start: 32284, Stop: 32006, Start Num: 12

Candidate Starts for OldNelly_45:

(Start: 12 @32284 has 112 MA's), (26, 32212), (28, 32203), (37, 32137), (48, 32041), (50, 32032),

Gene: Oxtober96_45 Start: 32283, Stop: 32005, Start Num: 12

Candidate Starts for Oxtober96_45:

(Start: 12 @32283 has 112 MA's), (26, 32211), (28, 32202), (37, 32136), (48, 32040), (50, 32031),

Gene: Papafritta_43 Start: 31988, Stop: 31710, Start Num: 12

Candidate Starts for Papafritta_43:

(Start: 12 @31988 has 112 MA's), (26, 31916), (28, 31907), (37, 31841), (48, 31745), (50, 31736),

Gene: ParleG_44 Start: 32285, Stop: 32007, Start Num: 12

Candidate Starts for ParleG_44:

(Start: 12 @32285 has 112 MA's), (26, 32213), (28, 32204), (37, 32138), (48, 32042), (50, 32033),

Gene: Peep_44 Start: 32270, Stop: 31992, Start Num: 12

Candidate Starts for Peep_44:

(Start: 12 @32270 has 112 MA's), (26, 32198), (37, 32123), (48, 32027), (50, 32018),

Gene: Phanita_41 Start: 31298, Stop: 31020, Start Num: 15

Candidate Starts for Phanita_41:

(8, 31346), (9, 31343), (Start: 15 @31298 has 15 MA's), (27, 31226), (29, 31217), (38, 31142), (40, 31133), (47, 31058), (50, 31046), (51, 31043),

Gene: Pherferi_44 Start: 32278, Stop: 32000, Start Num: 12

Candidate Starts for Pherferi_44:

(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: Phiderman_44 Start: 32275, Stop: 31997, Start Num: 12

Candidate Starts for Phiderman_44:

(Start: 12 @32275 has 112 MA's), (26, 32203), (28, 32194), (37, 32128), (48, 32032), (50, 32023),

Gene: Phireproof_44 Start: 32284, Stop: 32006, Start Num: 12

Candidate Starts for Phireproof_44:

(Start: 12 @32284 has 112 MA's), (26, 32212), (28, 32203), (37, 32137), (48, 32041), (50, 32032),

Gene: PhredFlintston_44 Start: 32278, Stop: 32000, Start Num: 12

Candidate Starts for PhredFlintston_44:

(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: Phriends_44 Start: 32284, Stop: 32006, Start Num: 12

Candidate Starts for Phriends_44:

(Start: 12 @32284 has 112 MA's), (26, 32212), (28, 32203), (37, 32137), (48, 32041), (50, 32032),

Gene: Pocket_43 Start: 32007, Stop: 31729, Start Num: 12

Candidate Starts for Pocket_43:

(Start: 12 @32007 has 112 MA's), (26, 31935), (28, 31926), (37, 31860), (48, 31764), (50, 31755),

Gene: PuppyEggo_44 Start: 32285, Stop: 32007, Start Num: 12

Candidate Starts for PuppyEggo_44:

(Start: 12 @32285 has 112 MA's), (26, 32213), (28, 32204), (37, 32138), (48, 32042), (50, 32033),

Gene: Quartz_42 Start: 31184, Stop: 30909, Start Num: 15

Candidate Starts for Quartz_42:

(Start: 15 @31184 has 15 MA's), (Start: 19 @31157 has 1 MA's), (25, 31121), (50, 30941), (51, 30938),

Gene: Raccoon_44 Start: 32080, Stop: 31823, Start Num: 18

Candidate Starts for Raccoon_44:

(Start: 18 @32080 has 6 MA's), (34, 31984),

Gene: Rapheph_44 Start: 32278, Stop: 32000, Start Num: 12

Candidate Starts for Rapheph_44:

(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: Raptor_44 Start: 32285, Stop: 32007, Start Num: 12

Candidate Starts for Raptor_44:

(Start: 12 @32285 has 112 MA's), (26, 32213), (28, 32204), (37, 32138), (48, 32042), (50, 32033),

Gene: Redfield_44 Start: 32133, Stop: 31855, Start Num: 12

Candidate Starts for Redfield_44:

(Start: 12 @32133 has 112 MA's), (37, 31986), (50, 31881),

Gene: Renzie_44 Start: 32273, Stop: 31995, Start Num: 12

Candidate Starts for Renzie_44:

(Start: 12 @32273 has 112 MA's), (26, 32201), (28, 32192), (37, 32126), (48, 32030), (50, 32021),

Gene: Riyhil_44 Start: 32288, Stop: 32010, Start Num: 12

Candidate Starts for Riyhil_44:

(Start: 12 @32288 has 112 MA's), (26, 32216), (28, 32207), (37, 32141), (48, 32045), (50, 32036),

Gene: Robinson_44 Start: 32276, Stop: 31998, Start Num: 12

Candidate Starts for Robinson_44:

(Start: 12 @32276 has 112 MA's), (26, 32204), (28, 32195), (37, 32129), (48, 32033), (50, 32024),

Gene: Rog141_43 Start: 31967, Stop: 31689, Start Num: 12

Candidate Starts for Rog141_43:

(Start: 12 @31967 has 112 MA's), (26, 31895), (28, 31886), (37, 31820), (48, 31724), (50, 31715),

Gene: RosieMae_45 Start: 32025, Stop: 31747, Start Num: 12

Candidate Starts for RosieMae_45:

(Start: 12 @32025 has 112 MA's), (26, 31953), (28, 31944), (37, 31878), (48, 31782), (50, 31773),

Gene: SJay_44 Start: 32279, Stop: 32001, Start Num: 12

Candidate Starts for SJay_44:

(Start: 12 @32279 has 112 MA's), (26, 32207), (28, 32198), (37, 32132), (48, 32036), (50, 32027),

Gene: Saratos_42 Start: 31346, Stop: 31068, Start Num: 15

Candidate Starts for Saratos_42:

(8, 31394), (9, 31391), (Start: 15 @31346 has 15 MA's), (Start: 19 @31319 has 1 MA's), (32, 31253), (38, 31190), (40, 31181), (47, 31106), (50, 31094),

Gene: Schnapsidee_44 Start: 32140, Stop: 31862, Start Num: 12

Candidate Starts for Schnapsidee_44:

(Start: 12 @32140 has 112 MA's), (37, 31993), (50, 31888),

Gene: Schubert_41 Start: 30985, Stop: 30704, Start Num: 13

Candidate Starts for Schubert_41:

(2, 31159), (4, 31126), (5, 31084), (6, 31066), (Start: 13 @30985 has 4 MA's), (21, 30949), (33, 30871), (38, 30829),

Gene: Sedgewig_43 Start: 31965, Stop: 31687, Start Num: 12

Candidate Starts for Sedgewig_43:

(Start: 12 @31965 has 112 MA's), (26, 31893), (28, 31884), (37, 31818), (48, 31722), (50, 31713),

Gene: ShaiHulud_45 Start: 32294, Stop: 32016, Start Num: 12

Candidate Starts for ShaiHulud_45:

(Start: 12 @32294 has 112 MA's), (26, 32222), (28, 32213), (37, 32147), (48, 32051), (50, 32042),

Gene: Shamu_43 Start: 31525, Stop: 31247, Start Num: 15

Candidate Starts for Shamu_43:

(8, 31573), (9, 31570), (Start: 15 @31525 has 15 MA's), (Start: 19 @31498 has 1 MA's), (32, 31432), (38, 31369), (40, 31360), (47, 31285), (50, 31273),

Gene: Shee_44 Start: 32275, Stop: 31997, Start Num: 12

Candidate Starts for Shee_44:

(Start: 12 @32275 has 112 MA's), (26, 32203), (28, 32194), (37, 32128), (48, 32032), (50, 32023),

Gene: SoilGremlin_45 Start: 32281, Stop: 32003, Start Num: 12

Candidate Starts for SoilGremlin_45:

(Start: 12 @32281 has 112 MA's), (26, 32209), (28, 32200), (37, 32134), (48, 32038), (50, 32029),

Gene: SonOfLevi_44 Start: 31998, Stop: 31720, Start Num: 12

Candidate Starts for SonOfLevi_44:

(Start: 12 @31998 has 112 MA's), (26, 31926), (28, 31917), (37, 31851), (48, 31755), (50, 31746),

Gene: Stanktossa_44 Start: 32278, Stop: 32000, Start Num: 12

Candidate Starts for Stanktossa_44:

(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: StingRay_43 Start: 31983, Stop: 31705, Start Num: 12

Candidate Starts for StingRay_43:

(Start: 12 @31983 has 112 MA's), (26, 31911), (28, 31902), (37, 31836), (48, 31740), (50, 31731),

Gene: StirfryIV_43 Start: 31976, Stop: 31698, Start Num: 12

Candidate Starts for StirfryIV_43:

(Start: 12 @31976 has 112 MA's), (26, 31904), (28, 31895), (37, 31829), (48, 31733), (50, 31724),

Gene: Stormbreaker8_43 Start: 32016, Stop: 31738, Start Num: 12

Candidate Starts for Stormbreaker8_43:

(Start: 12 @32016 has 112 MA's), (20, 31980), (37, 31869), (50, 31764),

Gene: Strathdee_44 Start: 32284, Stop: 32006, Start Num: 12
Candidate Starts for Strathdee_44:
(Start: 12 @32284 has 112 MA's), (26, 32212), (28, 32203), (37, 32137), (48, 32041), (50, 32032),

Gene: Superfresh_44 Start: 32273, Stop: 31995, Start Num: 12
Candidate Starts for Superfresh_44:
(Start: 12 @32273 has 112 MA's), (26, 32201), (28, 32192), (37, 32126), (48, 32030), (50, 32021),

Gene: Symere_45 Start: 31975, Stop: 31697, Start Num: 12
Candidate Starts for Symere_45:
(Start: 12 @31975 has 112 MA's), (26, 31903), (28, 31894), (37, 31828), (48, 31732), (50, 31723),

Gene: TatarkaPM_44 Start: 32288, Stop: 32010, Start Num: 12
Candidate Starts for TatarkaPM_44:
(Start: 12 @32288 has 112 MA's), (26, 32216), (28, 32207), (37, 32141), (48, 32045), (50, 32036),

Gene: Teagan_44 Start: 32278, Stop: 32000, Start Num: 12
Candidate Starts for Teagan_44:
(Start: 12 @32278 has 112 MA's), (26, 32206), (28, 32197), (37, 32131), (48, 32035), (50, 32026),

Gene: TeddyBear_43 Start: 31980, Stop: 31702, Start Num: 12
Candidate Starts for TeddyBear_43:
(Start: 12 @31980 has 112 MA's), (26, 31908), (28, 31899), (37, 31833), (48, 31737), (50, 31728),

Gene: Tenda_43 Start: 31978, Stop: 31700, Start Num: 12
Candidate Starts for Tenda_43:
(Start: 12 @31978 has 112 MA's), (26, 31906), (28, 31897), (37, 31831), (48, 31735), (50, 31726),

Gene: Thompsone_44 Start: 32285, Stop: 32007, Start Num: 12
Candidate Starts for Thompsone_44:
(Start: 12 @32285 has 112 MA's), (26, 32213), (28, 32204), (37, 32138), (48, 32042), (50, 32033),

Gene: Thorongil_44 Start: 31799, Stop: 31521, Start Num: 12
Candidate Starts for Thorongil_44:
(Start: 12 @31799 has 112 MA's), (26, 31727), (28, 31718), (37, 31652), (48, 31556), (50, 31547),

Gene: TinSulphur_45 Start: 32284, Stop: 32006, Start Num: 12
Candidate Starts for TinSulphur_45:
(Start: 12 @32284 has 112 MA's), (26, 32212), (28, 32203), (37, 32137), (48, 32041), (50, 32032),

Gene: Velene_44 Start: 32283, Stop: 32005, Start Num: 12
Candidate Starts for Velene_44:
(Start: 12 @32283 has 112 MA's), (26, 32211), (28, 32202), (37, 32136), (48, 32040), (50, 32031),

Gene: Vispitious_44 Start: 32285, Stop: 32007, Start Num: 12
Candidate Starts for Vispitious_44:
(Start: 12 @32285 has 112 MA's), (26, 32213), (28, 32204), (37, 32138), (48, 32042), (50, 32033),

Gene: WestPM_38 Start: 29624, Stop: 29334, Start Num: 11
Candidate Starts for WestPM_38:
(Start: 11 @29624 has 1 MA's), (37, 29468), (40, 29450),

Gene: WildNOOut_44 Start: 32281, Stop: 32003, Start Num: 12

Candidate Starts for WildNOut_44:

(Start: 12 @32281 has 112 MA's), (26, 32209), (28, 32200), (37, 32134), (48, 32038), (50, 32029),

Gene: Winzigespinne_43 Start: 31966, Stop: 31688, Start Num: 12

Candidate Starts for Winzigespinne_43:

(Start: 12 @31966 has 112 MA's), (26, 31894), (28, 31885), (37, 31819), (48, 31723), (50, 31714),

Gene: YuuY_42 Start: 31651, Stop: 31373, Start Num: 15

Candidate Starts for YuuY_42:

(Start: 15 @31651 has 15 MA's), (Start: 19 @31624 has 1 MA's), (31, 31561), (32, 31558), (35, 31525), (39, 31492), (46, 31423), (48, 31408), (51, 31396),

Gene: Zada_45 Start: 32254, Stop: 31976, Start Num: 12

Candidate Starts for Zada_45:

(Start: 12 @32254 has 112 MA's), (26, 32182), (28, 32173), (37, 32107), (48, 32011), (50, 32002),

Gene: Zenitsu_42 Start: 31391, Stop: 31113, Start Num: 15

Candidate Starts for Zenitsu_42:

(8, 31439), (9, 31436), (Start: 15 @31391 has 15 MA's), (27, 31319), (29, 31310), (38, 31235), (40, 31226), (50, 31139),