



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 154579 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154579 has 118 members, 16 are drafts.

Phages represented in each track:

- Track 1 : SJay_7, Ludgate_7, Nagem_7, Teagan_7, Bandik_7
- Track 2 : Greys_7, TinSulphur_7, Benjalauren_7, Duocatuli_7, Raptor_7, MaeLinda_7, HanSolo_7, Lovelyunicorn_7, Delphidian_7, Pocket_7, PhredFlintston_7, Jerbirus_7, AxiPup_7, Oats_7, Rapheph_7, Convict_7, WildNOut_7, HankSprout_7, Oxtober96_7, Chako_7, Kale_7, Asta_8, Bonino_7, Aubergine_7, Phireproof_7, MonChoix_7, Blage_7, Baines_7, AranulaLuti_7, Stanktossa_7, Papafritta_7, Shee_7, JasperRussell_7, Figueroism_7, HungryHenry_7, StirfryIV_7, Inventa_7, MillyPhilly_7, Ilzat_7, OldNelly_7, ParleG_7, Janus167_7, Gargoyle_7, Kurt1_7, Pherferi_7, Calix_7, Robinson_7, Strathdee_7, AlexAdler_7, Phriends_7, Tenda_7, Espinosa_7, Nattles_7, Gubbabump_7, Winzigespinne_7, Martin_8, Vispistious_7, Klimt_7, MrWorldwide_7, PuppyEggo_7, Erla_7, Gershwin_7, ManRay_7, KannH_7, Byron23_6, BonesMcCoy_7, Gelo_7, Garey24_7, Zada_7, Velene_7, Chamuel_7, ShaiHulud_7, Sedgewig_7, JeriBeth_7, Rog141_7, Den3_7, Dothraki_7, Ioannes_7, Knox_7, Alyxandracam_7, BigRedClifford_7, BeautPeep30_7, TeddyBear_7, StingRay_7, Riyhil_7, Phiderman_7, SoilGremlin_7, Clancy_7, Thompsone_7, SonOfLevi_7, TatarkaPM_7, NickSell_7, Christoph_7, Etta_7
- Track 3 : Renzie_7, Dave_7, Peep_7, Antoinette_7, Superfresh_7
- Track 4 : Thorongil_7
- Track 5 : Guetzie_7, Lucky3_7, Golden_7, BouleyBill_7, SirVictor_7
- Track 6 : Kauala_7
- Track 7 : PrincePhergus_7
- Track 8 : Bustleton_7, Pherbot_7
- Track 9 : Sinatra_7
- Track 10 : ChickenKing_7
- Track 11 : Cheeto1_8
- Track 12 : GaeCeo_8

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

The start number called the most often in the published annotations is 3, it was called in 98 of the 102 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlexAdler_7, Alyxandracam_7, Antoinette_7, AranulaLuti_7, Asta_8, Aubergine_7, AxiPup_7, Baines_7, Bandik_7, BeautPeep30_7, Benjalauren_7, BigRedClifford_7, Blage_7, BonesMcCoy_7, Bonino_7, BouleyBill_7, Byron23_6, Calix_7, Chako_7, Chamuel_7, ChickenKing_7, Christoph_7, Clancy_7, Convict_7, Dave_7, Delphidian_7, Den3_7, Dothraki_7, Duocatuli_7, Erla_7, Espinosa_7, Etta_7, Figueroism_7, GaeCeo_8, Garey24_7, Gargoyle_7, Gelo_7, Gershwin_7, Golden_7, Greys_7, Gubbabump_7, Guetzie_7, HanSolo_7, HankSprout_7, HungryHenry_7, Ilzat_7, Inventa_7, Ioannes_7, Janus167_7, JasperRussell_7, Jerbirus_7, JeriBeth_7, Kale_7, KannH_7, Kauala_7, Klimt_7, Knox_7, Kurt1_7, Lovelyunicorn_7, Lucky3_7, Ludgate_7, MaeLinda_7, ManRay_7, Martin_8, MillyPhilly_7, MonChoix_7, MrWorldwide_7, Nagem_7, Nattles_7, NickSell_7, Oats_7, OldNelly_7, Oxtober96_7, Papafritta_7, ParleG_7, Peep_7, Pherferi_7, Phiderman_7, Phireproof_7, PhredFlintston_7, Phriends_7, Pocket_7, PuppyEggo_7, Rapheph_7, Raptor_7, Renzie_7, Rihhil_7, Robinson_7, Rog141_7, SJay_7, Sedgewig_7, ShaiHulud_7, Shee_7, Sinatra_7, SirVictor_7, SoilGremlin_7, SonOfLevi_7, Stanktossa_7, StingRay_7, StirfryIV_7, Strathdee_7, Superfresh_7, TatarkaPM_7, Teagan_7, TeddyBear_7, Tenda_7, Thompsone_7, Thorongil_7, TinSulphur_7, Velene_7, Vispistious_7, WildNOut_7, Winzigespinne_7, Zada_7,

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

- Bustleton_7, Pherbot_7, PrincePhergus_7,

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

- Cheeto1_8,

Summary by start number:

Start 1:

- Found in 2 of 118 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 102
- Called 50.0% of time when present
- Phage (with cluster) where this start called: PrincePhergus_7 (EA4),

Start 2:

- Found in 3 of 118 (2.5%) of genes in pham
- Manual Annotations of this start: 3 of 102
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bustleton_7 (EA4), Cheeto1_8 (EA9), Pherbot_7 (EA4),

Start 3:

- Found in 117 of 118 (99.2%) of genes in pham
- Manual Annotations of this start: 98 of 102
- Called 97.4% of time when present
- Phage (with cluster) where this start called: AlexAdler_7 (EA1), Alyxandracam_7 (EA1), Antoinette_7 (EA1), AranulaLuti_7 (EA1), Asta_8 (EA1), Aubergine_7 (EA1), AxiPup_7 (EA1), Baines_7 (EA1), Bandik_7 (EA1), BeautPeep30_7 (EA1), Benjalauren_7 (EA1), BigRedClifford_7 (EA1), Blage_7 (EA1), BonesMcCoy_7 (EA1), Bonino_7 (EA1), BouleyBill_7 (EA4), Byron23_6 (EA1), Calix_7 (EA1), Chako_7 (EA1), Chamuel_7 (EA1), ChickenKing_7 (EA9), Christoph_7 (EA1), Clancy_7 (EA1), Convict_7 (EA1), Dave_7 (EA1), Delphidian_7 (EA1), Den3_7 (EA1), Dothraki_7 (EA1), Duocatuli_7 (EA1), Erla_7 (EA1), Espinosa_7 (EA1), Etta_7 (EA1), Figueroism_7 (EA1), GaeCeo_8 (EA9), Garey24_7 (EA1), Gargoyle_7 (EA1),

Gelo_7 (EA1), Gershwin_7 (EA1), Golden_7 (EA4), Greys_7 (EA1), Gubbabump_7 (EA1), Guetzie_7 (EA4), HanSolo_7 (EA1), HankSprout_7 (EA1), HungryHenry_7 (EA1), Ilzat_7 (EA1), Inventa_7 (EA1), Ioannes_7 (EA1), Janus167_7 (EA1), JasperRussell_7 (EA1), Jerbirus_7 (EA1), JeriBeth_7 (EA1), Kale_7 (EA1), KannH_7 (EA1), Kauala_7 (EA4), Klimt_7 (EA1), Knox_7 (EA1), Kurt1_7 (EA1), Lovelyunicorn_7 (EA1), Lucky3_7 (EA4), Ludgate_7 (EA1), MaeLinda_7 (EA1), ManRay_7 (EA1), Martin_8 (EA1), MillyPhilly_7 (EA1), MonChoix_7 (EA1), MrWorldwide_7 (EA1), Nagem_7 (EA1), Nattles_7 (EA1), NickSell_7 (EA1), Oats_7 (EA1), OldNelly_7 (EA1), October96_7 (EA1), Papafritta_7 (EA1), ParleG_7 (EA1), Peep_7 (EA1), Pherferi_7 (EA1), Phiderman_7 (EA1), Phireproof_7 (EA1), PhredFlintston_7 (EA1), Phriends_7 (EA1), Pocket_7 (EA1), PuppyEggo_7 (EA1), Rappheph_7 (EA1), Raptor_7 (EA1), Renzie_7 (EA1), Riyhil_7 (EA1), Robinson_7 (EA1), Rog141_7 (EA1), SJay_7 (EA1), Sedgewig_7 (EA1), ShaiHulud_7 (EA1), Shee_7 (EA1), Sinatra_7 (EA4), SirVictor_7 (EA4), SoilGremlin_7 (EA1), SonOfLevi_7 (EA1), Stanktossa_7 (EA1), StingRay_7 (EA1), StirfryIV_7 (EA1), Strathdee_7 (EA1), Superfresh_7 (EA1), TatarkaPM_7 (EA1), Teagan_7 (EA1), TeddyBear_7 (EA1), Tenda_7 (EA1), Thompsone_7 (EA1), Thorongil_7 (EA1), TinSulphur_7 (EA1), Velene_7 (EA1), Vispistious_7 (EA1), WildNOut_7 (EA1), Winzigespinne_7 (EA1), Zada_7 (EA1),

Summary by clusters:

There are 3 clusters represented in this pham: EA1, EA9, EA4,

Info for manual annotations of cluster EA1:

- Start number 3 was manually annotated 90 times for cluster EA1.

Info for manual annotations of cluster EA4:

- Start number 1 was manually annotated 1 time for cluster EA4.
- Start number 2 was manually annotated 2 times for cluster EA4.
- Start number 3 was manually annotated 6 times for cluster EA4.

Info for manual annotations of cluster EA9:

- Start number 2 was manually annotated 1 time for cluster EA9.
- Start number 3 was manually annotated 2 times for cluster EA9.

Gene Information:

Gene: AlexAdler_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for AlexAdler_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Alyxandracam_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Alyxandracam_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Antoinette_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Antoinette_7:

(Start: 3 @5631 has 98 MA's), (5, 5697), (8, 5781),

Gene: AranulaLuti_7 Start: 5631, Stop: 5882, Start Num: 3

Candidate Starts for AranulaLuti_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Asta_8 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for Asta_8:
(Start: 3 @5645 has 98 MA's), (8, 5795),

Gene: Aubergine_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for Aubergine_7:
(Start: 3 @5645 has 98 MA's), (8, 5795),

Gene: AxiPup_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for AxiPup_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Baines_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Baines_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Bandik_7 Start: 5631, Stop: 5873, Start Num: 3
Candidate Starts for Bandik_7:
(Start: 3 @5631 has 98 MA's), (9, 5793),

Gene: BeautPeep30_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for BeautPeep30_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Benjalauren_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Benjalauren_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: BigRedClifford_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for BigRedClifford_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Blage_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Blage_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: BonesMcCoy_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for BonesMcCoy_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Bonino_7 Start: 5630, Stop: 5875, Start Num: 3
Candidate Starts for Bonino_7:
(Start: 3 @5630 has 98 MA's), (8, 5780),

Gene: BouleyBill_7 Start: 5684, Stop: 5935, Start Num: 3
Candidate Starts for BouleyBill_7:
(Start: 3 @5684 has 98 MA's),

Gene: Bustleton_7 Start: 5666, Stop: 5917, Start Num: 2
Candidate Starts for Bustleton_7:

(Start: 2 @5666 has 3 MA's), (Start: 3 @5669 has 98 MA's), (6, 5774),

Gene: Byron23_6 Start: 5634, Stop: 5882, Start Num: 3

Candidate Starts for Byron23_6:

(Start: 3 @5634 has 98 MA's), (8, 5784),

Gene: Calix_7 Start: 5630, Stop: 5875, Start Num: 3

Candidate Starts for Calix_7:

(Start: 3 @5630 has 98 MA's), (8, 5780),

Gene: Chako_7 Start: 5631, Stop: 5882, Start Num: 3

Candidate Starts for Chako_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Chamuel_7 Start: 5632, Stop: 5877, Start Num: 3

Candidate Starts for Chamuel_7:

(Start: 3 @5632 has 98 MA's), (8, 5782),

Gene: Cheeto1_8 Start: 5764, Stop: 6009, Start Num: 2

Candidate Starts for Cheeto1_8:

(Start: 2 @5764 has 3 MA's), (7, 5887),

Gene: ChickenKing_7 Start: 5587, Stop: 5829, Start Num: 3

Candidate Starts for ChickenKing_7:

(Start: 3 @5587 has 98 MA's), (7, 5707),

Gene: Christoph_7 Start: 5643, Stop: 5894, Start Num: 3

Candidate Starts for Christoph_7:

(Start: 3 @5643 has 98 MA's), (8, 5793),

Gene: Clancy_7 Start: 5631, Stop: 5882, Start Num: 3

Candidate Starts for Clancy_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Convict_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Convict_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Dave_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Dave_7:

(Start: 3 @5631 has 98 MA's), (5, 5697), (8, 5781),

Gene: Delphidian_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Delphidian_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Den3_7 Start: 5635, Stop: 5883, Start Num: 3

Candidate Starts for Den3_7:

(Start: 3 @5635 has 98 MA's), (8, 5785),

Gene: Dothraki_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Dothraki_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Duocatuli_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Duocatuli_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Erla_7 Start: 5630, Stop: 5875, Start Num: 3
Candidate Starts for Erla_7:
(Start: 3 @5630 has 98 MA's), (8, 5780),

Gene: Espinosa_7 Start: 5643, Stop: 5894, Start Num: 3
Candidate Starts for Espinosa_7:
(Start: 3 @5643 has 98 MA's), (8, 5793),

Gene: Etta_7 Start: 5634, Stop: 5879, Start Num: 3
Candidate Starts for Etta_7:
(Start: 3 @5634 has 98 MA's), (8, 5784),

Gene: Figueroism_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Figueroism_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: GaeCeo_8 Start: 5757, Stop: 5999, Start Num: 3
Candidate Starts for GaeCeo_8:
(Start: 3 @5757 has 98 MA's), (7, 5877),

Gene: Garey24_7 Start: 5636, Stop: 5881, Start Num: 3
Candidate Starts for Garey24_7:
(Start: 3 @5636 has 98 MA's), (8, 5786),

Gene: Gargoyle_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Gargoyle_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Gelo_7 Start: 5634, Stop: 5879, Start Num: 3
Candidate Starts for Gelo_7:
(Start: 3 @5634 has 98 MA's), (8, 5784),

Gene: Gershwin_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for Gershwin_7:
(Start: 3 @5645 has 98 MA's), (8, 5795),

Gene: Golden_7 Start: 5769, Stop: 6020, Start Num: 3
Candidate Starts for Golden_7:
(Start: 3 @5769 has 98 MA's),

Gene: Greys_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Greys_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Gubbabump_7 Start: 5633, Stop: 5884, Start Num: 3
Candidate Starts for Gubbabump_7:
(Start: 3 @5633 has 98 MA's), (8, 5783),

Gene: Guetzie_7 Start: 5757, Stop: 6008, Start Num: 3
Candidate Starts for Guetzie_7:
(Start: 3 @5757 has 98 MA's),

Gene: HanSolo_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for HanSolo_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: HankSprout_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for HankSprout_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: HungryHenry_7 Start: 5632, Stop: 5883, Start Num: 3
Candidate Starts for HungryHenry_7:
(Start: 3 @5632 has 98 MA's), (8, 5782),

Gene: Ilzat_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Ilzat_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Inventa_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Inventa_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Ioannes_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Ioannes_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Janus167_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Janus167_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: JasperRussell_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for JasperRussell_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Jerbirus_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Jerbirus_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: JeriBeth_7 Start: 5631, Stop: 5876, Start Num: 3
Candidate Starts for JeriBeth_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Kale_7 Start: 5647, Stop: 5898, Start Num: 3
Candidate Starts for Kale_7:
(Start: 3 @5647 has 98 MA's), (8, 5797),

Gene: KannH_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for KannH_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Kauala_7 Start: 5674, Stop: 5934, Start Num: 3

Candidate Starts for Kauala_7:
(Start: 3 @5674 has 98 MA's),

Gene: Klimt_7 Start: 5632, Stop: 5877, Start Num: 3
Candidate Starts for Klimt_7:
(Start: 3 @5632 has 98 MA's), (8, 5782),

Gene: Knox_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Knox_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Kurt1_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Kurt1_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Lovelyunicorn_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Lovelyunicorn_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Lucky3_7 Start: 5769, Stop: 6020, Start Num: 3
Candidate Starts for Lucky3_7:
(Start: 3 @5769 has 98 MA's),

Gene: Ludgate_7 Start: 5631, Stop: 5873, Start Num: 3
Candidate Starts for Ludgate_7:
(Start: 3 @5631 has 98 MA's), (9, 5793),

Gene: MaeLinda_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for MaeLinda_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: ManRay_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for ManRay_7:
(Start: 3 @5645 has 98 MA's), (8, 5795),

Gene: Martin_8 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Martin_8:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: MillyPhilly_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for MillyPhilly_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: MonChoix_7 Start: 5651, Stop: 5911, Start Num: 3
Candidate Starts for MonChoix_7:
(Start: 3 @5651 has 98 MA's), (8, 5801),

Gene: MrWorldwide_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for MrWorldwide_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Nagem_7 Start: 5631, Stop: 5873, Start Num: 3
Candidate Starts for Nagem_7:

(Start: 3 @5631 has 98 MA's), (9, 5793),

Gene: Nattles_7 Start: 5636, Stop: 5881, Start Num: 3

Candidate Starts for Nattles_7:

(Start: 3 @5636 has 98 MA's), (8, 5786),

Gene: NickSell_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for NickSell_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Oats_7 Start: 5645, Stop: 5896, Start Num: 3

Candidate Starts for Oats_7:

(Start: 3 @5645 has 98 MA's), (8, 5795),

Gene: OldNelly_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for OldNelly_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Oxtober96_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Oxtober96_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Papafritta_7 Start: 5631, Stop: 5882, Start Num: 3

Candidate Starts for Papafritta_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: ParleG_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for ParleG_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Peep_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Peep_7:

(Start: 3 @5631 has 98 MA's), (5, 5697), (8, 5781),

Gene: Pherbot_7 Start: 5665, Stop: 5916, Start Num: 2

Candidate Starts for Pherbot_7:

(Start: 2 @5665 has 3 MA's), (Start: 3 @5668 has 98 MA's), (6, 5773),

Gene: Pherferi_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Pherferi_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Phiderman_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Phiderman_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Phireproof_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for Phireproof_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: PhredFlintston_7 Start: 5631, Stop: 5879, Start Num: 3

Candidate Starts for PhredFlintston_7:

(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Phriends_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Phriends_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Pocket_7 Start: 5630, Stop: 5881, Start Num: 3
Candidate Starts for Pocket_7:
(Start: 3 @5630 has 98 MA's), (8, 5780),

Gene: PrincePhergus_7 Start: 5666, Stop: 5923, Start Num: 1
Candidate Starts for PrincePhergus_7:
(Start: 1 @5666 has 1 MA's), (Start: 3 @5672 has 98 MA's),

Gene: PuppyEggo_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for PuppyEggo_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Rapheph_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Rapheph_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Raptor_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Raptor_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Renzie_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Renzie_7:
(Start: 3 @5631 has 98 MA's), (5, 5697), (8, 5781),

Gene: Riyhil_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Riyhil_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Robinson_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Robinson_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Rog141_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Rog141_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: SJay_7 Start: 5632, Stop: 5874, Start Num: 3
Candidate Starts for SJay_7:
(Start: 3 @5632 has 98 MA's), (9, 5794),

Gene: Sedgewig_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Sedgewig_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: ShaiHulud_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for ShaiHulud_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Shee_7 Start: 5628, Stop: 5876, Start Num: 3
Candidate Starts for Shee_7:
(Start: 3 @5628 has 98 MA's), (8, 5778),

Gene: Sinatra_7 Start: 5669, Stop: 5920, Start Num: 3
Candidate Starts for Sinatra_7:
(Start: 1 @5663 has 1 MA's), (Start: 3 @5669 has 98 MA's),

Gene: SirVictor_7 Start: 5757, Stop: 6008, Start Num: 3
Candidate Starts for SirVictor_7:
(Start: 3 @5757 has 98 MA's),

Gene: SoilGremlin_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for SoilGremlin_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: SonOfLevi_7 Start: 5632, Stop: 5877, Start Num: 3
Candidate Starts for SonOfLevi_7:
(Start: 3 @5632 has 98 MA's), (8, 5782),

Gene: Stanktossa_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Stanktossa_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: StingRay_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for StingRay_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: StirfryIV_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for StirfryIV_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Strathdee_7 Start: 5632, Stop: 5880, Start Num: 3
Candidate Starts for Strathdee_7:
(Start: 3 @5632 has 98 MA's), (8, 5782),

Gene: Superfresh_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Superfresh_7:
(Start: 3 @5631 has 98 MA's), (5, 5697), (8, 5781),

Gene: TatarkaPM_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for TatarkaPM_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Teagan_7 Start: 5631, Stop: 5873, Start Num: 3
Candidate Starts for Teagan_7:
(Start: 3 @5631 has 98 MA's), (9, 5793),

Gene: TeddyBear_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for TeddyBear_7:
(Start: 3 @5645 has 98 MA's), (8, 5795),

Gene: Tenda_7 Start: 5643, Stop: 5894, Start Num: 3

Candidate Starts for Tenda_7:
(Start: 3 @5643 has 98 MA's), (8, 5793),

Gene: Thompsone_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Thompsone_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Thorongil_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Thorongil_7:
(Start: 3 @5631 has 98 MA's), (4, 5637), (8, 5781),

Gene: TinSulphur_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for TinSulphur_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Velene_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Velene_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Vispistious_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Vispistious_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: WildNOut_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for WildNOut_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),

Gene: Winzigespinne_7 Start: 5630, Stop: 5881, Start Num: 3
Candidate Starts for Winzigespinne_7:
(Start: 3 @5630 has 98 MA's), (8, 5780),

Gene: Zada_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Zada_7:
(Start: 3 @5631 has 98 MA's), (8, 5781),