



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 168081 Report

This analysis was run 07/09/24 on database version 566.

Pham number 168081 has 118 members, 10 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, Bonino_7, Asta_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 104 of the 108 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlexAdler_7, Alyxandracam_7, Antoinette_7, AranulaLuti_7, Asta_7, 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 108
- 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 108
- 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: 104 of 108
- 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_7 (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), Thompstone_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 96 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 104 MA's), (8, 5781),

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

Candidate Starts for Alyxandracam_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Antoinette_7:

(Start: 3 @5631 has 104 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 104 MA's), (8, 5781),

Gene: Asta_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for Asta_7:
(Start: 3 @5645 has 104 MA's), (8, 5795),

Gene: Aubergine_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for Aubergine_7:
(Start: 3 @5645 has 104 MA's), (8, 5795),

Gene: AxiPup_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for AxiPup_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Baines_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Baines_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Bandik_7 Start: 5631, Stop: 5873, Start Num: 3
Candidate Starts for Bandik_7:
(Start: 3 @5631 has 104 MA's), (9, 5793),

Gene: BeautPeep30_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for BeautPeep30_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Benjalauren_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Benjalauren_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: BigRedClifford_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for BigRedClifford_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Blage_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Blage_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: BonesMcCoy_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for BonesMcCoy_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Bonino_7 Start: 5630, Stop: 5875, Start Num: 3
Candidate Starts for Bonino_7:
(Start: 3 @5630 has 104 MA's), (8, 5780),

Gene: BouleyBill_7 Start: 5684, Stop: 5935, Start Num: 3
Candidate Starts for BouleyBill_7:
(Start: 3 @5684 has 104 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 104 MA's), (6, 5774),

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

Candidate Starts for Byron23_6:

(Start: 3 @5634 has 104 MA's), (8, 5784),

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

Candidate Starts for Calix_7:

(Start: 3 @5630 has 104 MA's), (8, 5780),

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

Candidate Starts for Chako_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Chamuel_7:

(Start: 3 @5632 has 104 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 104 MA's), (7, 5707),

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

Candidate Starts for Christoph_7:

(Start: 3 @5643 has 104 MA's), (8, 5793),

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

Candidate Starts for Clancy_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Convict_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Dave_7:

(Start: 3 @5631 has 104 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 104 MA's), (8, 5781),

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

Candidate Starts for Den3_7:

(Start: 3 @5635 has 104 MA's), (8, 5785),

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

Candidate Starts for Dothraki_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Duocatuli_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Duocatuli_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Erla_7 Start: 5630, Stop: 5875, Start Num: 3
Candidate Starts for Erla_7:
(Start: 3 @5630 has 104 MA's), (8, 5780),

Gene: Espinosa_7 Start: 5643, Stop: 5894, Start Num: 3
Candidate Starts for Espinosa_7:
(Start: 3 @5643 has 104 MA's), (8, 5793),

Gene: Etta_7 Start: 5634, Stop: 5879, Start Num: 3
Candidate Starts for Etta_7:
(Start: 3 @5634 has 104 MA's), (8, 5784),

Gene: Figueroism_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Figueroism_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: GaeCeo_8 Start: 5757, Stop: 5999, Start Num: 3
Candidate Starts for GaeCeo_8:
(Start: 3 @5757 has 104 MA's), (7, 5877),

Gene: Garey24_7 Start: 5636, Stop: 5881, Start Num: 3
Candidate Starts for Garey24_7:
(Start: 3 @5636 has 104 MA's), (8, 5786),

Gene: Gargoyle_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Gargoyle_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Gelo_7 Start: 5634, Stop: 5879, Start Num: 3
Candidate Starts for Gelo_7:
(Start: 3 @5634 has 104 MA's), (8, 5784),

Gene: Gershwin_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for Gershwin_7:
(Start: 3 @5645 has 104 MA's), (8, 5795),

Gene: Golden_7 Start: 5769, Stop: 6020, Start Num: 3
Candidate Starts for Golden_7:
(Start: 3 @5769 has 104 MA's),

Gene: Greys_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Greys_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Gubbabump_7 Start: 5633, Stop: 5884, Start Num: 3
Candidate Starts for Gubbabump_7:
(Start: 3 @5633 has 104 MA's), (8, 5783),

Gene: Guetzie_7 Start: 5757, Stop: 6008, Start Num: 3
Candidate Starts for Guetzie_7:
(Start: 3 @5757 has 104 MA's),

Gene: HanSolo_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for HanSolo_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: HankSprout_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for HankSprout_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: HungryHenry_7 Start: 5632, Stop: 5883, Start Num: 3
Candidate Starts for HungryHenry_7:
(Start: 3 @5632 has 104 MA's), (8, 5782),

Gene: Ilzat_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Ilzat_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Inventa_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Inventa_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: loannes_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for loannes_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Janus167_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Janus167_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: JasperRussell_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for JasperRussell_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Jerbirus_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Jerbirus_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: JeriBeth_7 Start: 5631, Stop: 5876, Start Num: 3
Candidate Starts for JeriBeth_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Kale_7 Start: 5647, Stop: 5898, Start Num: 3
Candidate Starts for Kale_7:
(Start: 3 @5647 has 104 MA's), (8, 5797),

Gene: KannH_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for KannH_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Kauala_7:
(Start: 3 @5674 has 104 MA's),

Gene: Klimt_7 Start: 5632, Stop: 5877, Start Num: 3
Candidate Starts for Klimt_7:
(Start: 3 @5632 has 104 MA's), (8, 5782),

Gene: Knox_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Knox_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Kurt1_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Kurt1_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Lovelyunicorn_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Lovelyunicorn_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Lucky3_7 Start: 5769, Stop: 6020, Start Num: 3
Candidate Starts for Lucky3_7:
(Start: 3 @5769 has 104 MA's),

Gene: Ludgate_7 Start: 5631, Stop: 5873, Start Num: 3
Candidate Starts for Ludgate_7:
(Start: 3 @5631 has 104 MA's), (9, 5793),

Gene: MaeLinda_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for MaeLinda_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: ManRay_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for ManRay_7:
(Start: 3 @5645 has 104 MA's), (8, 5795),

Gene: Martin_8 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Martin_8:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: MillyPhilly_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for MillyPhilly_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: MonChoix_7 Start: 5651, Stop: 5911, Start Num: 3
Candidate Starts for MonChoix_7:
(Start: 3 @5651 has 104 MA's), (8, 5801),

Gene: MrWorldwide_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for MrWorldwide_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

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

(Start: 3 @5631 has 104 MA's), (9, 5793),

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

Candidate Starts for Nattles_7:

(Start: 3 @5636 has 104 MA's), (8, 5786),

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

Candidate Starts for NickSell_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Oats_7:

(Start: 3 @5645 has 104 MA's), (8, 5795),

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

Candidate Starts for OldNelly_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Oxtober96_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Papafritta_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for ParleG_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Peep_7:

(Start: 3 @5631 has 104 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 104 MA's), (6, 5773),

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

Candidate Starts for Pherferi_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Phiderman_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for Phireproof_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

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

Candidate Starts for PhredFlintston_7:

(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Phriends_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Phriends_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Pocket_7 Start: 5630, Stop: 5881, Start Num: 3
Candidate Starts for Pocket_7:
(Start: 3 @5630 has 104 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 104 MA's),

Gene: PuppyEggo_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for PuppyEggo_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Rapheph_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Rapheph_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Raptor_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Raptor_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Renzie_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Renzie_7:
(Start: 3 @5631 has 104 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 104 MA's), (8, 5781),

Gene: Robinson_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Robinson_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Rog141_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Rog141_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: SJay_7 Start: 5632, Stop: 5874, Start Num: 3
Candidate Starts for SJay_7:
(Start: 3 @5632 has 104 MA's), (9, 5794),

Gene: Sedgewig_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for Sedgewig_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: ShaiHulud_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for ShaiHulud_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Shee_7 Start: 5628, Stop: 5876, Start Num: 3
Candidate Starts for Shee_7:
(Start: 3 @5628 has 104 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 104 MA's),

Gene: SirVictor_7 Start: 5757, Stop: 6008, Start Num: 3
Candidate Starts for SirVictor_7:
(Start: 3 @5757 has 104 MA's),

Gene: SoilGremlin_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for SoilGremlin_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: SonOfLevi_7 Start: 5632, Stop: 5877, Start Num: 3
Candidate Starts for SonOfLevi_7:
(Start: 3 @5632 has 104 MA's), (8, 5782),

Gene: Stanktossa_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Stanktossa_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: StingRay_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for StingRay_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: StirfryIV_7 Start: 5631, Stop: 5882, Start Num: 3
Candidate Starts for StirfryIV_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Strathdee_7 Start: 5632, Stop: 5880, Start Num: 3
Candidate Starts for Strathdee_7:
(Start: 3 @5632 has 104 MA's), (8, 5782),

Gene: Superfresh_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Superfresh_7:
(Start: 3 @5631 has 104 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 104 MA's), (8, 5781),

Gene: Teagan_7 Start: 5631, Stop: 5873, Start Num: 3
Candidate Starts for Teagan_7:
(Start: 3 @5631 has 104 MA's), (9, 5793),

Gene: TeddyBear_7 Start: 5645, Stop: 5896, Start Num: 3
Candidate Starts for TeddyBear_7:
(Start: 3 @5645 has 104 MA's), (8, 5795),

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

Candidate Starts for Tenda_7:
(Start: 3 @5643 has 104 MA's), (8, 5793),

Gene: Thompsone_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Thompsone_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Thorongil_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Thorongil_7:
(Start: 3 @5631 has 104 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 104 MA's), (8, 5781),

Gene: Velene_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Velene_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Vispitious_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Vispitious_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: WildNOut_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for WildNOut_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),

Gene: Winzigespinne_7 Start: 5630, Stop: 5881, Start Num: 3
Candidate Starts for Winzigespinne_7:
(Start: 3 @5630 has 104 MA's), (8, 5780),

Gene: Zada_7 Start: 5631, Stop: 5879, Start Num: 3
Candidate Starts for Zada_7:
(Start: 3 @5631 has 104 MA's), (8, 5781),