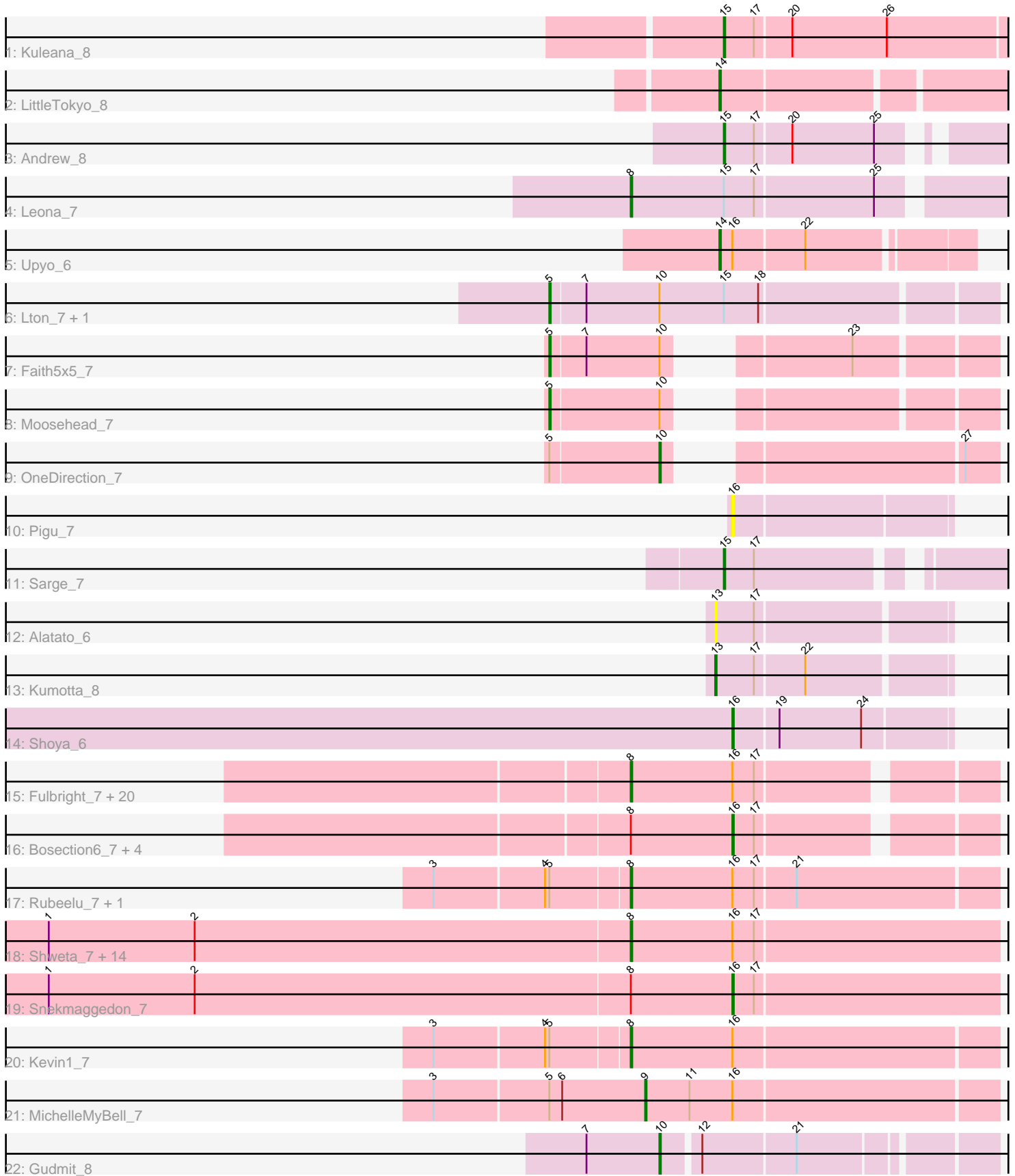


Pham 214295



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 214295 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214295 has 62 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Kuleana_8
- Track 2 : LittleTokyo_8
- Track 3 : Andrew_8
- Track 4 : Leona_7
- Track 5 : Upyo_6
- Track 6 : Lton_7, Pepperoni_7
- Track 7 : Faith5x5_7
- Track 8 : Moosehead_7
- Track 9 : OneDirection_7
- Track 10 : Pigu_7
- Track 11 : Sarge_7
- Track 12 : Alatato_6
- Track 13 : Kumotta_8
- Track 14 : Shoya_6
- Track 15 : Fulbright_7, Xeno_7, Aggie_7, Parmesanjohn_7, Charlie_7, Silvy_7, Duplicity_7, Andies_7, Gex_7, Pipsqueaks_7, Schnauzer_7, Smurph_7, Carcharodon_7, Xerxes_7, Silvafighter_7, Journey_7, Chewbacca_7, Tapioca_7, Magsby_7, Phloss_7, Philonius_7
- Track 16 : Bosection6_7, Melville_7, Scitech_7, Tortoise12_7, EGUunicorn_7
- Track 17 : Rubeelu_7, Butters_7
- Track 18 : Shweta_7, PhancyPhin_7, SpongeBob_7, Hanako_7, Nenae_7, Jamie19_7, Phrann_7, Purgamenstris_7, BabeRuth_7, Raymond7_7, ShrimpFriedEgg_7, Panchino_7, Redi_7, Rebel_7, SkinnyPete_7
- Track 19 : Snekmaggedon_7
- Track 20 : Kevin1_7
- Track 21 : MichelleMyBell_7
- Track 22 : Gudmit_8

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

The start number called the most often in the published annotations is 8, it was called in 40 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aggie_7, Andies_7, BabeRuth_7, Butters_7, Carcharodon_7, Charlie_7, Chewbacca_7, Duplicity_7, Fulbright_7, Gex_7, Hanako_7, Jamie19_7, Journey_7, Kevin1_7, Leona_7, Magsby_7, Nенаe_7, Panchino_7, Parmesanjohn_7, PhancyPhin_7, Philonius_7, Phloss_7, Phrann_7, Pipsqueaks_7, Purgamenstris_7, Raymond7_7, Rebel_7, Redi_7, Rubeelu_7, Schnauzer_7, ShrimpFriedEgg_7, Shweta_7, Silvafighter_7, Silvy_7, SkinnyPete_7, Smurph_7, SpongeBob_7, Tapioca_7, Xeno_7, Xerxes_7,

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

- Bosection6_7, EGUnicorn_7, Melville_7, Scitech_7, Snekmaggedon_7, Tortoise12_7,

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

- Alatato_6, Andrew_8, Faith5x5_7, Gudmit_8, Kuleana_8, Kumotta_8, LittleTokyo_8, Lton_7, MichelleMyBell_7, Moosehead_7, OneDirection_7, Pepperoni_7, Pigu_7, Sarge_7, Shoya_6, Upyo_6,

Summary by start number:

Start 5:

- Found in 9 of 62 (14.5%) of genes in pham
- Manual Annotations of this start: 3 of 55
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Faith5x5_7 (CZ6), Lton_7 (CZ), Moosehead_7 (CZ6), Pepperoni_7 (CZ),

Start 8:

- Found in 46 of 62 (74.2%) of genes in pham
- Manual Annotations of this start: 40 of 55
- Called 87.0% of time when present
- Phage (with cluster) where this start called: Aggie_7 (N), Andies_7 (N), BabeRuth_7 (N), Butters_7 (N), Carcharodon_7 (N), Charlie_7 (N), Chewbacca_7 (N), Duplicity_7 (N), Fulbright_7 (N), Gex_7 (N), Hanako_7 (N), Jamie19_7 (N), Journey_7 (N), Kevin1_7 (N), Leona_7 (AS3), Magsby_7 (N), Nенаe_7 (N), Panchino_7 (N), Parmesanjohn_7 (N), PhancyPhin_7 (N), Philonius_7 (N), Phloss_7 (N), Phrann_7 (N), Pipsqueaks_7 (N), Purgamenstris_7 (N), Raymond7_7 (N), Rebel_7 (N), Redi_7 (N), Rubeelu_7 (N), Schnauzer_7 (N), ShrimpFriedEgg_7 (N), Shweta_7 (N), Silvafighter_7 (N), Silvy_7 (N), SkinnyPete_7 (N), Smurph_7 (N), SpongeBob_7 (N), Tapioca_7 (N), Xeno_7 (N), Xerxes_7 (N),

Start 9:

- Found in 1 of 62 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MichelleMyBell_7 (N),

Start 10:

- Found in 6 of 62 (9.7%) of genes in pham
- Manual Annotations of this start: 2 of 55
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gudmit_8 (singleton), OneDirection_7 (CZ6),

Start 13:

- Found in 2 of 62 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatato_6 (FB), Kumotta_8 (FB),

Start 14:

- Found in 2 of 62 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleTokyo_8 (AS2), Upyo_6 (CD),

Start 15:

- Found in 6 of 62 (9.7%) of genes in pham
- Manual Annotations of this start: 3 of 55
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Andrew_8 (AS3), Kuleana_8 (AS2), Sarge_7 (FB),

Start 16:

- Found in 49 of 62 (79.0%) of genes in pham
- Manual Annotations of this start: 3 of 55
- Called 16.3% of time when present
- Phage (with cluster) where this start called: Bosection6_7 (N), EGUnicorn_7 (N), Melville_7 (N), Pigu_7 (FB), Scitech_7 (N), Shoya_6 (FB), Snekmaggedon_7 (N), Tortoise12_7 (N),

Summary by clusters:

There are 8 clusters represented in this pham: AS3, AS2, singleton, CZ6, N, CZ, FB, CD,

Info for manual annotations of cluster AS2:

- Start number 14 was manually annotated 1 time for cluster AS2.
- Start number 15 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 8 was manually annotated 1 time for cluster AS3.
- Start number 15 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster CD:

- Start number 14 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CZ:

- Start number 5 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ6:

- Start number 5 was manually annotated 2 times for cluster CZ6.
- Start number 10 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster FB:

- Start number 13 was manually annotated 1 time for cluster FB.
- Start number 15 was manually annotated 1 time for cluster FB.

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

Info for manual annotations of cluster N:

- Start number 8 was manually annotated 39 times for cluster N.
- Start number 9 was manually annotated 1 time for cluster N.
- Start number 16 was manually annotated 2 times for cluster N.

Gene Information:

Gene: Aggie_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Aggie_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Alatato_6 Start: 5818, Stop: 5973, Start Num: 13

Candidate Starts for Alatato_6:

(Start: 13 @5818 has 1 MA's), (17, 5845),

Gene: Andies_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Andies_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Andrew_8 Start: 6895, Stop: 7071, Start Num: 15

Candidate Starts for Andrew_8:

(Start: 15 @6895 has 3 MA's), (17, 6916), (20, 6940), (25, 6997),

Gene: BabeRuth_7 Start: 5753, Stop: 6004, Start Num: 8

Candidate Starts for BabeRuth_7:

(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Bosection6_7 Start: 5799, Stop: 5963, Start Num: 16

Candidate Starts for Bosection6_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Butters_7 Start: 5729, Stop: 5977, Start Num: 8

Candidate Starts for Butters_7:

(3, 5600), (4, 5675), (Start: 5 @5678 has 3 MA's), (Start: 8 @5729 has 40 MA's), (Start: 16 @5798 has 3 MA's), (17, 5813), (21, 5840),

Gene: Carcharodon_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Carcharodon_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Charlie_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Charlie_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Chewbacca_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Chewbacca_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Duplicity_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Duplicity_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: EGUunicorn_7 Start: 5799, Stop: 5963, Start Num: 16

Candidate Starts for EGUunicorn_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Faith5x5_7 Start: 5658, Stop: 5912, Start Num: 5

Candidate Starts for Faith5x5_7:

(Start: 5 @5658 has 3 MA's), (7, 5682), (Start: 10 @5733 has 2 MA's), (23, 5820),

Gene: Fulbright_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Fulbright_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Gex_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Gex_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Gudmit_8 Start: 6514, Stop: 6726, Start Num: 10

Candidate Starts for Gudmit_8:

(7, 6463), (Start: 10 @6514 has 2 MA's), (12, 6538), (21, 6601),

Gene: Hanako_7 Start: 5753, Stop: 6004, Start Num: 8

Candidate Starts for Hanako_7:

(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Jamie19_7 Start: 5753, Stop: 6004, Start Num: 8

Candidate Starts for Jamie19_7:

(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Journey_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Journey_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Kevin1_7 Start: 5729, Stop: 5977, Start Num: 8

Candidate Starts for Kevin1_7:

(3, 5600), (4, 5675), (Start: 5 @5678 has 3 MA's), (Start: 8 @5729 has 40 MA's), (Start: 16 @5798 has 3 MA's),

Gene: Kuleana_8 Start: 6883, Stop: 7083, Start Num: 15

Candidate Starts for Kuleana_8:

(Start: 15 @6883 has 3 MA's), (17, 6904), (20, 6928), (26, 6994),

Gene: Kumotta_8 Start: 7171, Stop: 7326, Start Num: 13

Candidate Starts for Kumotta_8:

(Start: 13 @7171 has 1 MA's), (17, 7198), (22, 7231),

Gene: Leona_7 Start: 6489, Stop: 6743, Start Num: 8

Candidate Starts for Leona_7:

(Start: 8 @6489 has 40 MA's), (Start: 15 @6552 has 3 MA's), (17, 6573), (25, 6654),

Gene: LittleTokyo_8 Start: 6828, Stop: 7022, Start Num: 14

Candidate Starts for LittleTokyo_8:

(Start: 14 @6828 has 2 MA's),

Gene: Lton_7 Start: 5667, Stop: 5966, Start Num: 5

Candidate Starts for Lton_7:

(Start: 5 @5667 has 3 MA's), (7, 5691), (Start: 10 @5742 has 2 MA's), (Start: 15 @5787 has 3 MA's), (18, 5811),

Gene: Magsby_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Magsby_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Melville_7 Start: 5799, Stop: 5963, Start Num: 16

Candidate Starts for Melville_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: MichelleMyBell_7 Start: 5758, Stop: 5997, Start Num: 9

Candidate Starts for MichelleMyBell_7:

(3, 5614), (Start: 5 @5692 has 3 MA's), (6, 5701), (Start: 9 @5758 has 1 MA's), (11, 5788), (Start: 16 @5818 has 3 MA's),

Gene: Moosehead_7 Start: 5649, Stop: 5903, Start Num: 5

Candidate Starts for Moosehead_7:

(Start: 5 @5649 has 3 MA's), (Start: 10 @5724 has 2 MA's),

Gene: Nenae_7 Start: 5753, Stop: 6004, Start Num: 8

Candidate Starts for Nenae_7:

(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: OneDirection_7 Start: 5719, Stop: 5904, Start Num: 10

Candidate Starts for OneDirection_7:

(Start: 5 @5644 has 3 MA's), (Start: 10 @5719 has 2 MA's), (27, 5881),

Gene: Panchino_7 Start: 5753, Stop: 5980, Start Num: 8

Candidate Starts for Panchino_7:

(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Parmesanjohn_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Parmesanjohn_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Pepperoni_7 Start: 5961, Stop: 6260, Start Num: 5

Candidate Starts for Pepperoni_7:

(Start: 5 @5961 has 3 MA's), (7, 5985), (Start: 10 @6036 has 2 MA's), (Start: 15 @6081 has 3 MA's), (18, 6105),

Gene: PhancyPhin_7 Start: 5753, Stop: 6004, Start Num: 8

Candidate Starts for PhancyPhin_7:

(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Philonius_7 Start: 5730, Stop: 5963, Start Num: 8

Candidate Starts for Philonius_7:

(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Phloss_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Phloss_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Phrann_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for Phrann_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Pigu_7 Start: 5789, Stop: 5935, Start Num: 16
Candidate Starts for Pigu_7:
(Start: 16 @5789 has 3 MA's),

Gene: Pipsqueaks_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Pipsqueaks_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Purgamenstris_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for Purgamenstris_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Raymond7_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for Raymond7_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Rebel_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for Rebel_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Redi_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for Redi_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Rubeelu_7 Start: 5729, Stop: 5977, Start Num: 8
Candidate Starts for Rubeelu_7:
(3, 5600), (4, 5675), (Start: 5 @5678 has 3 MA's), (Start: 8 @5729 has 40 MA's), (Start: 16 @5798 has 3 MA's), (17, 5813), (21, 5840),

Gene: Sarge_7 Start: 6203, Stop: 6382, Start Num: 15
Candidate Starts for Sarge_7:
(Start: 15 @6203 has 3 MA's), (17, 6224),

Gene: Schnauzer_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Schnauzer_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Scitech_7 Start: 5799, Stop: 5963, Start Num: 16
Candidate Starts for Scitech_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Shoya_6 Start: 5816, Stop: 5962, Start Num: 16
Candidate Starts for Shoya_6:
(Start: 16 @5816 has 3 MA's), (19, 5846), (24, 5903),

Gene: ShrimpFriedEgg_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for ShrimpFriedEgg_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Shweta_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for Shweta_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Silvafighter_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Silvafighter_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Silvy_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Silvy_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: SkinnyPete_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for SkinnyPete_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Smurph_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Smurph_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Snekmaggedon_7 Start: 5822, Stop: 6004, Start Num: 16
Candidate Starts for Snekmaggedon_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: SpongeBob_7 Start: 5753, Stop: 6004, Start Num: 8
Candidate Starts for SpongeBob_7:
(1, 5351), (2, 5453), (Start: 8 @5753 has 40 MA's), (Start: 16 @5822 has 3 MA's), (17, 5837),

Gene: Tapioca_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Tapioca_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Tortoise12_7 Start: 5799, Stop: 5963, Start Num: 16
Candidate Starts for Tortoise12_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Upyo_6 Start: 5831, Stop: 5995, Start Num: 14
Candidate Starts for Upyo_6:
(Start: 14 @5831 has 2 MA's), (Start: 16 @5840 has 3 MA's), (22, 5888),

Gene: Xeno_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Xeno_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),

Gene: Xerxes_7 Start: 5730, Stop: 5963, Start Num: 8
Candidate Starts for Xerxes_7:
(Start: 8 @5730 has 40 MA's), (Start: 16 @5799 has 3 MA's), (17, 5814),