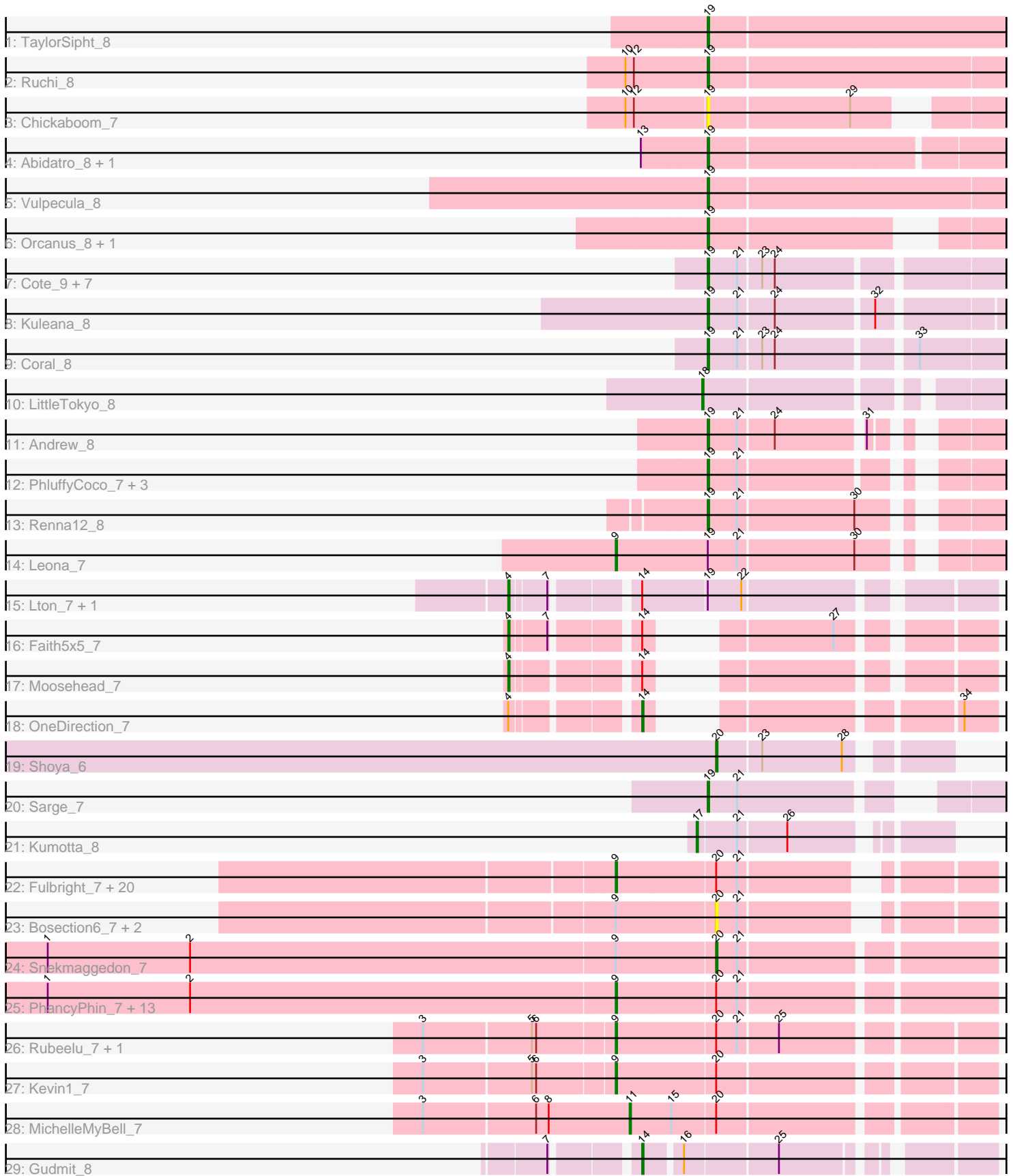


Pham 171409



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 171409 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171409 has 78 members, 10 are drafts.

Phages represented in each track:

- Track 1 : TaylorSipht_8
- Track 2 : Ruchi_8
- Track 3 : Chickaboom_7
- Track 4 : Abidatro_8, Galaxy_8
- Track 5 : Vulpecula_8
- Track 6 : Orcanus_8, Eesa_8
- Track 7 : Cote_9, Daob_9, Polka_8, HannahPhantana_9, Melons_9, Kepler_8, Amelia_9, Lunar_9
- Track 8 : Kuleana_8
- Track 9 : Coral_8
- Track 10 : LittleTokyo_8
- Track 11 : Andrew_8
- Track 12 : PhluffyCoco_7, KHumphrey_7, Juno112_7, RedFox_7
- Track 13 : Renna12_8
- Track 14 : Leona_7
- Track 15 : Lton_7, Pepperoni_7
- Track 16 : Faith5x5_7
- Track 17 : Moosehead_7
- Track 18 : OneDirection_7
- Track 19 : Shoya_6
- Track 20 : Sarge_7
- Track 21 : Kumotta_8
- Track 22 : Fulbright_7, Aggie_7, Parmesanjohn_7, Charlie_7, Xeno_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, Phloss_7, Magsby_7, Philonius_7
- Track 23 : Bosection6_7, Melville_7, Scitech_7
- Track 24 : Snekmaggedon_7
- Track 25 : PhancyPhin_7, SpongeBob_7, Redi_7, Nenae_7, Jamie19_7, Purgamenstris_7, BabeRuth_7, Raymond7_7, ShrimpFriedEgg_7, Phrann_7, Panchino_7, Rebel_7, Shweta_7, SkinnyPete_7
- Track 26 : Rubeelu_7, Butters_7
- Track 27 : Kevin1_7
- Track 28 : MichelleMyBell_7
- Track 29 : 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 9, it was called in 38 of the 68 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, Jamie19_7, Journey_7, Kevin1_7, Leona_7, Magsby_7, Nenae_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, Melville_7, Scitech_7, Snekmaggedon_7,

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

- Abidatro_8, Amelia_9, Andrew_8, Chickaboom_7, Coral_8, Cote_9, Daob_9, Eesa_8, Faith5x5_7, Galaxy_8, Gudmit_8, HannahPhantana_9, Juno112_7, KHumphrey_7, Kepler_8, Kuleana_8, Kumotta_8, LittleTokyo_8, Lton_7, Lunar_9, Melons_9, MichelleMyBell_7, Moosehead_7, OneDirection_7, Orcanus_8, Pepperoni_7, PhluffyCoco_7, Polka_8, RedFox_7, Renna12_8, Ruchi_8, Sarge_7, Shoya_6, TaylorSipht_8, Vulpecula_8,

Summary by start number:

Start 4:

- Found in 5 of 78 (6.4%) of genes in pham
- Manual Annotations of this start: 3 of 68
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Faith5x5_7 (CZ6), Lton_7 (CZ), Moosehead_7 (CZ6), Pepperoni_7 (CZ),

Start 9:

- Found in 43 of 78 (55.1%) of genes in pham
- Manual Annotations of this start: 38 of 68
- Called 90.7% 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), Jamie19_7 (N), Journey_7 (N), Kevin1_7 (N), Leona_7 (AS3), Magsby_7 (N), Nenae_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 11:

- Found in 1 of 78 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 68
- Called 100.0% of time when present

- Phage (with cluster) where this start called: MichelleMyBell_7 (N),

Start 14:

- Found in 6 of 78 (7.7%) of genes in pham
- Manual Annotations of this start: 2 of 68
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gudmit_8 (singleton), OneDirection_7 (CZ6),

Start 17:

- Found in 1 of 78 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 68
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumotta_8 (FB),

Start 18:

- Found in 1 of 78 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 68
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleTokyo_8 (AS2),

Start 19:

- Found in 28 of 78 (35.9%) of genes in pham
- Manual Annotations of this start: 20 of 68
- Called 89.3% of time when present
- Phage (with cluster) where this start called: Abidatro_8 (AS1), Amelia_9 (AS2), Andrew_8 (AS3), Chickaboom_7 (AS1), Coral_8 (AS2), Cote_9 (AS2), Daob_9 (AS2), Eesa_8 (AS1), Galaxy_8 (AS1), HannahPhantana_9 (AS2), Juno112_7 (AS3), KHumphrey_7 (AS3), Kepler_8 (AS2), Kuleana_8 (AS2), Lunar_9 (AS2), Melons_9 (AS2), Orcanus_8 (AS1), PhluffyCoco_7 (AS3), Polka_8 (AS2), RedFox_7 (AS3), Renna12_8 (AS3), Ruchi_8 (AS1), Sarge_7 (FB), TaylorSipht_8 (AS1), Vulpecula_8 (AS1),

Start 20:

- Found in 44 of 78 (56.4%) of genes in pham
- Manual Annotations of this start: 2 of 68
- Called 11.4% of time when present
- Phage (with cluster) where this start called: Bosection6_7 (N), Melville_7 (N), Scitech_7 (N), Shoya_6 (FB), Snekmaggon_7 (N),

Summary by clusters:

There are 8 clusters represented in this pham: AS3, AS2, singleton, CZ6, AS1, N, CZ, FB,

Info for manual annotations of cluster AS1:

- Start number 19 was manually annotated 7 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 18 was manually annotated 1 time for cluster AS2.
- Start number 19 was manually annotated 9 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 9 was manually annotated 1 time for cluster AS3.
- Start number 19 was manually annotated 3 times for cluster AS3.

Info for manual annotations of cluster CZ:

- Start number 4 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ6:

- Start number 4 was manually annotated 2 times for cluster CZ6.
- Start number 14 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster FB:

- Start number 17 was manually annotated 1 time for cluster FB.
- Start number 19 was manually annotated 1 time for cluster FB.
- Start number 20 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster N:

- Start number 9 was manually annotated 37 times for cluster N.
- Start number 11 was manually annotated 1 time for cluster N.
- Start number 20 was manually annotated 1 time for cluster N.

Gene Information:

Gene: Abidatro_8 Start: 6875, Stop: 7084, Start Num: 19

Candidate Starts for Abidatro_8:

(13, 6830), (Start: 19 @6875 has 20 MA's),

Gene: Aggie_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Aggie_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Amelia_9 Start: 7077, Stop: 7280, Start Num: 19

Candidate Starts for Amelia_9:

(Start: 19 @7077 has 20 MA's), (21, 7098), (23, 7113), (24, 7122),

Gene: Andies_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Andies_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Andrew_8 Start: 6895, Stop: 7071, Start Num: 19

Candidate Starts for Andrew_8:

(Start: 19 @6895 has 20 MA's), (21, 6916), (24, 6940), (31, 6997),

Gene: BabeRuth_7 Start: 5753, Stop: 6004, Start Num: 9

Candidate Starts for BabeRuth_7:

(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Bosection6_7 Start: 5799, Stop: 5963, Start Num: 20

Candidate Starts for Bosection6_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Butters_7 Start: 5729, Stop: 5977, Start Num: 9

Candidate Starts for Butters_7:

(3, 5600), (5, 5675), (6, 5678), (Start: 9 @5729 has 38 MA's), (Start: 20 @5798 has 2 MA's), (21, 5813), (25, 5840),

Gene: Carcharodon_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Carcharodon_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Charlie_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Charlie_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Chewbacca_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Chewbacca_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Chickaboom_7 Start: 6580, Stop: 6765, Start Num: 19

Candidate Starts for Chickaboom_7:

(10, 6526), (12, 6532), (Start: 19 @6580 has 20 MA's), (29, 6679),

Gene: Coral_8 Start: 6916, Stop: 7119, Start Num: 19

Candidate Starts for Coral_8:

(Start: 19 @6916 has 20 MA's), (21, 6937), (23, 6952), (24, 6961), (33, 7051),

Gene: Cote_9 Start: 7077, Stop: 7280, Start Num: 19

Candidate Starts for Cote_9:

(Start: 19 @7077 has 20 MA's), (21, 7098), (23, 7113), (24, 7122),

Gene: Daob_9 Start: 7080, Stop: 7283, Start Num: 19

Candidate Starts for Daob_9:

(Start: 19 @7080 has 20 MA's), (21, 7101), (23, 7116), (24, 7125),

Gene: Duplicity_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Duplicity_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Eesa_8 Start: 7101, Stop: 7283, Start Num: 19

Candidate Starts for Eesa_8:

(Start: 19 @7101 has 20 MA's),

Gene: Faith5x5_7 Start: 5658, Stop: 5912, Start Num: 4

Candidate Starts for Faith5x5_7:

(Start: 4 @5658 has 3 MA's), (7, 5682), (Start: 14 @5733 has 2 MA's), (27, 5820),

Gene: Fulbright_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Fulbright_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Galaxy_8 Start: 6882, Stop: 7091, Start Num: 19

Candidate Starts for Galaxy_8:

(13, 6837), (Start: 19 @6882 has 20 MA's),

Gene: Gex_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Gex_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Gudmit_8 Start: 6514, Stop: 6726, Start Num: 14

Candidate Starts for Gudmit_8:

(7, 6463), (Start: 14 @6514 has 2 MA's), (16, 6538), (25, 6601),

Gene: HannahPhantana_9 Start: 7080, Stop: 7283, Start Num: 19

Candidate Starts for HannahPhantana_9:

(Start: 19 @7080 has 20 MA's), (21, 7101), (23, 7116), (24, 7125),

Gene: Jamie19_7 Start: 5753, Stop: 6004, Start Num: 9

Candidate Starts for Jamie19_7:

(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Journey_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Journey_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Juno112_7 Start: 6511, Stop: 6693, Start Num: 19

Candidate Starts for Juno112_7:

(Start: 19 @6511 has 20 MA's), (21, 6532),

Gene: KHumphrey_7 Start: 6510, Stop: 6692, Start Num: 19

Candidate Starts for KHumphrey_7:

(Start: 19 @6510 has 20 MA's), (21, 6531),

Gene: Kepler_8 Start: 6915, Stop: 7118, Start Num: 19

Candidate Starts for Kepler_8:

(Start: 19 @6915 has 20 MA's), (21, 6936), (23, 6951), (24, 6960),

Gene: Kevin1_7 Start: 5729, Stop: 5977, Start Num: 9

Candidate Starts for Kevin1_7:

(3, 5600), (5, 5675), (6, 5678), (Start: 9 @5729 has 38 MA's), (Start: 20 @5798 has 2 MA's),

Gene: Kuleana_8 Start: 6883, Stop: 7083, Start Num: 19

Candidate Starts for Kuleana_8:

(Start: 19 @6883 has 20 MA's), (21, 6904), (24, 6928), (32, 6994),

Gene: Kumotta_8 Start: 7171, Stop: 7326, Start Num: 17

Candidate Starts for Kumotta_8:

(Start: 17 @7171 has 1 MA's), (21, 7198), (26, 7231),

Gene: Leona_7 Start: 6489, Stop: 6743, Start Num: 9

Candidate Starts for Leona_7:

(Start: 9 @6489 has 38 MA's), (Start: 19 @6552 has 20 MA's), (21, 6573), (30, 6654),

Gene: LittleTokyo_8 Start: 6828, Stop: 7022, Start Num: 18

Candidate Starts for LittleTokyo_8:

(Start: 18 @6828 has 1 MA's),

Gene: Lton_7 Start: 5667, Stop: 5966, Start Num: 4

Candidate Starts for Lton_7:

(Start: 4 @5667 has 3 MA's), (7, 5691), (Start: 14 @5742 has 2 MA's), (Start: 19 @5787 has 20 MA's), (22, 5811),

Gene: Lunar_9 Start: 7077, Stop: 7280, Start Num: 19
Candidate Starts for Lunar_9:
(Start: 19 @7077 has 20 MA's), (21, 7098), (23, 7113), (24, 7122),

Gene: Magsby_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Magsby_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Melons_9 Start: 7077, Stop: 7280, Start Num: 19
Candidate Starts for Melons_9:
(Start: 19 @7077 has 20 MA's), (21, 7098), (23, 7113), (24, 7122),

Gene: Melville_7 Start: 5799, Stop: 5963, Start Num: 20
Candidate Starts for Melville_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: MichelleMyBell_7 Start: 5758, Stop: 5997, Start Num: 11
Candidate Starts for MichelleMyBell_7:
(3, 5614), (6, 5692), (8, 5701), (Start: 11 @5758 has 1 MA's), (15, 5788), (Start: 20 @5818 has 2 MA's),

Gene: Moosehead_7 Start: 5649, Stop: 5903, Start Num: 4
Candidate Starts for Moosehead_7:
(Start: 4 @5649 has 3 MA's), (Start: 14 @5724 has 2 MA's),

Gene: Nenae_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for Nenae_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: OneDirection_7 Start: 5719, Stop: 5904, Start Num: 14
Candidate Starts for OneDirection_7:
(Start: 4 @5644 has 3 MA's), (Start: 14 @5719 has 2 MA's), (34, 5881),

Gene: Orcanus_8 Start: 6891, Stop: 7073, Start Num: 19
Candidate Starts for Orcanus_8:
(Start: 19 @6891 has 20 MA's),

Gene: Panchino_7 Start: 5753, Stop: 5980, Start Num: 9
Candidate Starts for Panchino_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Parmesanjohn_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Parmesanjohn_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Pepperoni_7 Start: 5961, Stop: 6260, Start Num: 4
Candidate Starts for Pepperoni_7:
(Start: 4 @5961 has 3 MA's), (7, 5985), (Start: 14 @6036 has 2 MA's), (Start: 19 @6081 has 20 MA's), (22, 6105),

Gene: PhancyPhin_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for PhancyPhin_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Philonius_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Philonius_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Phloss_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Phloss_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: PhluffyCoco_7 Start: 6510, Stop: 6692, Start Num: 19
Candidate Starts for PhluffyCoco_7:
(Start: 19 @6510 has 20 MA's), (21, 6531),

Gene: Phrann_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for Phrann_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Pipsqueaks_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Pipsqueaks_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Polka_8 Start: 6916, Stop: 7119, Start Num: 19
Candidate Starts for Polka_8:
(Start: 19 @6916 has 20 MA's), (21, 6937), (23, 6952), (24, 6961),

Gene: Purgamenstris_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for Purgamenstris_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Raymond7_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for Raymond7_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Rebel_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for Rebel_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: RedFox_7 Start: 6510, Stop: 6692, Start Num: 19
Candidate Starts for RedFox_7:
(Start: 19 @6510 has 20 MA's), (21, 6531),

Gene: Redi_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for Redi_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Renna12_8 Start: 6698, Stop: 6889, Start Num: 19
Candidate Starts for Renna12_8:
(Start: 19 @6698 has 20 MA's), (21, 6719), (30, 6800),

Gene: Rubeelu_7 Start: 5729, Stop: 5977, Start Num: 9

Candidate Starts for Rubeelu_7:
(3, 5600), (5, 5675), (6, 5678), (Start: 9 @5729 has 38 MA's), (Start: 20 @5798 has 2 MA's), (21, 5813), (25, 5840),

Gene: Ruchi_8 Start: 7139, Stop: 7354, Start Num: 19
Candidate Starts for Ruchi_8:
(10, 7082), (12, 7088), (Start: 19 @7139 has 20 MA's),

Gene: Sarge_7 Start: 6203, Stop: 6382, Start Num: 19
Candidate Starts for Sarge_7:
(Start: 19 @6203 has 20 MA's), (21, 6224),

Gene: Schnauzer_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Schnauzer_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Scitech_7 Start: 5799, Stop: 5963, Start Num: 20
Candidate Starts for Scitech_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Shoya_6 Start: 5816, Stop: 5962, Start Num: 20
Candidate Starts for Shoya_6:
(Start: 20 @5816 has 2 MA's), (23, 5846), (28, 5903),

Gene: ShrimpFriedEgg_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for ShrimpFriedEgg_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Shweta_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for Shweta_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Silvafighter_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Silvafighter_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Silvy_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Silvy_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: SkinnyPete_7 Start: 5753, Stop: 6004, Start Num: 9
Candidate Starts for SkinnyPete_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Smurph_7 Start: 5730, Stop: 5963, Start Num: 9
Candidate Starts for Smurph_7:
(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Snekmaggedon_7 Start: 5822, Stop: 6004, Start Num: 20
Candidate Starts for Snekmaggedon_7:
(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: SpongeBob_7 Start: 5753, Stop: 6004, Start Num: 9

Candidate Starts for SpongeBob_7:

(1, 5351), (2, 5453), (Start: 9 @5753 has 38 MA's), (Start: 20 @5822 has 2 MA's), (21, 5837),

Gene: Tapioca_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Tapioca_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: TaylorSipht_8 Start: 6914, Stop: 7159, Start Num: 19

Candidate Starts for TaylorSipht_8:

(Start: 19 @6914 has 20 MA's),

Gene: Vulpecula_8 Start: 7215, Stop: 7430, Start Num: 19

Candidate Starts for Vulpecula_8:

(Start: 19 @7215 has 20 MA's),

Gene: Xeno_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Xeno_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),

Gene: Xerxes_7 Start: 5730, Stop: 5963, Start Num: 9

Candidate Starts for Xerxes_7:

(Start: 9 @5730 has 38 MA's), (Start: 20 @5799 has 2 MA's), (21, 5814),