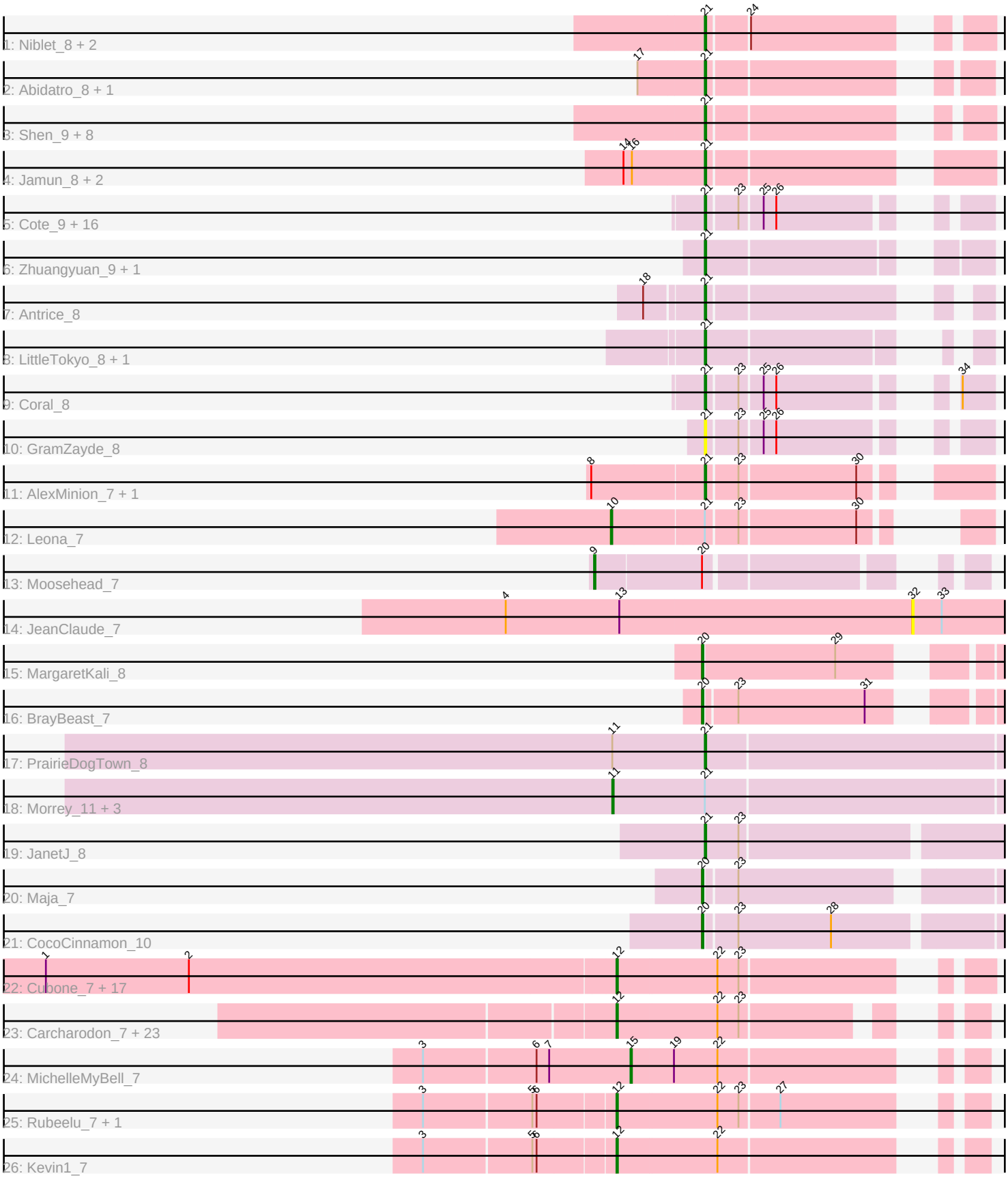
Pham 347453


1: Niblet_8 + 2
2: Abidatro_8 + 1
3: Shen_9 + 8
4: Jamun_8 + 2
5: Cote_9 + 16
6: Zhuangyuan_9 + 1
7: Antrice_8
8: LittleTokyo_8 + 1
9: Coral_8
10: GramZayde_8
11: AlexMinion_7 + 1
12: Leona_7
13: Moosehead_7
14: JeanClaude_7
15: MargaretKali_8
16: BrayBeast_7
17: PrairieDogTown_8
18: Morrey_11 + 3
19: JanetJ_8
20: Maja_7
21: CocoCinnamon_10
22: Cubone_7 + 17
23: Carcharodon_7 + 23
24: MichelleMyBell_7
25: Rubeelu_7 + 1
26: Kevin1_7

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 347453 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347453 has 102 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Niblet_8, Chicken_8, Zixiang_8
• Track 2 : Abidatro_8, Galaxy_8
• Track 3 : Shen_9, Amanises_9, Pelletreau_9, Toad24_9, Orcanus_8, KendraB23_9, Gravel_9, Eesa_8, Westrich_9
• Track 4 : Jamun_8, Brynnie_8, Basilisk_8
• Track 5 : Cote_9, Amelia_9, Daob_9, BadWillHunting_9, OtsoOtso_8, Jerole_9, Polka_8, Lunar_9, Melons_9, Bedetta_9, Bibble12_9, PhirstandPhine_9, Kepler_8, Colusalem_8, HannahPhantana_9, Pineda_9, Damocles_9
• Track 6 : Zhuangyuan_9, Cygnet_8
• Track 7 : Antrice_8
• Track 8 : LittleTokyo_8, TaylorSipht_8
• Track 9 : Coral_8
• Track 10 : GramZayde_8
• Track 11 : AlexMinion_7, StuartMinion_7
• Track 12 : Leona_7
• Track 13 : Moosehead_7
• Track 14 : JeanClaude_7
• Track 15 : MargaretKali_8
• Track 16 : BrayBeast_7
• Track 17 : PrairieDogTown_8
• Track 18 : Morrey_11, EvenBluerMoon_8, Hereford_9, Aoka_8
• Track 19 : JanetJ_8
• Track 20 : Maja_7
• Track 21 : CocoCinnamon_10
• Track 22 : Cubone_7, Jamie19_7, PhancyPhin_7, Hanako_7, Spinach_7, Phrann_7, Impisi_7, Raymond7_7, Shweta_7, Redi_7, SpongeBob_7, Nenae_7, ShrimpFriedEgg_7, Panchino_7, Rebel_7, SkinnyPete_7, BabeRuth_7, Purgamenstris_7
• Track 23 : Carcharodon_7, Xerxes_7, Bosection6_7, Philonius_7, Duplicity_7, Andies_7, Fulbright_7, Xeno_7, Tortoise12_7, Schnauzer_7, Silvafighter_7, Journey_7, Tapioca_7, EGUnicorn_7, Magsby_7, Phloss_7, Parmesanjohn_7, Aggie_7, Charlie_7, Silvy_7, Gex_7, Pipsqueaks_7, Smurph_7, Chewbacca_7
• Track 24 : MichelleMyBell_7
• Track 25 : Rubeelu_7, Butters_7
• Track 26 : Kevin1_7

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 44 of the 90 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_7, Andies_7, BabeRuth_7, Bosection6_7, Butters_7, Carcharodon_7, Charlie_7, Chewbacca_7, Cubone_7, Duplicity_7, EGUnicorn_7, Fulbright_7, Gex_7, Hanako_7, Impisi_7, Jamie19_7, Journey_7, Kevin1_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, Spinach_7, SpongeBob_7, Tapioca_7, Tortoise12_7, Xeno_7, Xerxes_7,

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

Genes that do not have the "Most Annotated" start:
• Abidatro_8, AlexMinion_7, Amanises_9, Amelia_9, Antrice_8, Aoka_8, BadWillHunting_9, Basilisk_8, Bedetta_9, Bibble12_9, BrayBeast_7, Brynnie_8, Chicken_8, CocoCinnamon_10, Colusalem_8, Coral_8, Cote_9, Cygnet_8, Damocles_9, Daob_9, Eesa_8, EvenBluerMoon_8, Galaxy_8, GramZayde_8, Gravel_9, HannahPhantana_9, Hereford_9, Jamun_8, JanetJ_8, JeanClaude_7, Jerole_9, KendraB23_9, Kepler_8, Leona_7, LittleTokyo_8, Lunar_9, Maja_7, MargaretKali_8, Melons_9, MichelleMyBell_7, Moosehead_7, Morrey_11, Niblet_8, Orcanus_8, OtsoOtso_8, Pelletreau_9, PhirstandPhine_9, Pineda_9, Polka_8, PrairieDogTown_8, Shen_9, StuartMinion_7, TaylorSipht_8, Toad24_9, Westrich_9, Zhuangyuan_9, Zixiang_8,

Summary by start number:

Start 9:
• Found in 1 of 102 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 90
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Moosehead_7 (CZ6),

Start 10:
• Found in 1 of 102 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 90
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leona_7 (AS3),

Start 11:
• Found in 5 of 102 (4.9%) of genes in pham
• Manual Annotations of this start: 3 of 90
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Aoka_8 (FO), EvenBluerMoon_8 (FO), Hereford_9 (FO), Morrey_11 (FO),

Start 12:
• Found in 45 of 102 (44.1%) of genes in pham

• Manual Annotations of this start: 44 of 90
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aggie_7 (N), Andies_7 (N), BabeRuth_7 (N), Bosection6_7 (N), Butters_7 (N), Carcharodon_7 (N), Charlie_7 (N), Chewbacca_7 (N), Cubone_7 (N), Duplicity_7 (N), EGUnicorn_7 (N), Fulbright_7 (N), Gex_7 (N), Hanako_7 (N), Impisi_7 (N), Jamie19_7 (N), Journey_7 (N), Kevin1_7 (N), 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), Spinach_7 (N), SpongeBob_7 (N), Tapioca_7 (N), Tortoise12_7 (N), Xeno_7 (N), Xerxes_7 (N),

Start 15:
• Found in 1 of 102 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 90
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MichelleMyBell_7 (N),

Start 20:
• Found in 5 of 102 (4.9%) of genes in pham
• Manual Annotations of this start: 4 of 90
• Called 80.0% of time when present
• Phage (with cluster) where this start called: BrayBeast_7 (FB), CocoCinnamon_10 (FO), Maja_7 (FO), MargaretKali_8 (FB),

Start 21:
• Found in 50 of 102 (49.0%) of genes in pham
• Manual Annotations of this start: 36 of 90
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Abidatro_8 (AS1), AlexMinion_7 (AS3), Amanises_9 (AS1), Amelia_9 (AS2), Antrice_8 (AS2), BadWillHunting_9 (AS2), Basilisk_8 (AS1), Bedetta_9 (AS2), Bibble12_9 (AS2), Brynnie_8 (AS1), Chicken_8 (AS1), Colusalem_8 (AS2), Coral_8 (AS2), Cote_9 (AS2), Cygnet_8 (AS2), Damocles_9 (AS2), Daob_9 (AS2), Eesa_8 (AS1), Galaxy_8 (AS1), GramZayde_8 (AS2), Gravel_9 (AS1), HannahPhantana_9 (AS2), Jamun_8 (AS1), JanetJ_8 (FO), Jerole_9 (AS2), KendraB23_9 (AS1), Kepler_8 (AS2), LittleTokyo_8 (AS2), Lunar_9 (AS2), Melons_9 (AS2), Niblet_8 (AS1), Orcanus_8 (AS1), OtsoOtso_8 (AS2), Pelletreau_9 (AS1), PhirstandPhine_9 (AS2), Pineda_9 (AS2), Polka_8 (AS2), PrairieDogTown_8 (FO), Shen_9 (AS1), StuartMinion_7 (AS3), TaylorSipht_8 (AS1), Toad24_9 (AS1), Westrich_9 (AS1), Zhuangyuan_9 (AS2), Zixiang_8 (AS1),

Start 32:
• Found in 1 of 102 (1.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JeanClaude_7 (FB),

Summary by clusters:

There are 7 clusters represented in this pham: AS3, AS2, AS1, CZ6, N, FB, FO,

Info for manual annotations of cluster AS1:

•Start number 21 was manually annotated 14 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 21 was manually annotated 18 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 10 was manually annotated 1 time for cluster AS3.
•Start number 21 was manually annotated 2 times for cluster AS3.

Info for manual annotations of cluster CZ6:
•Start number 9 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster FB:
•Start number 20 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FO:
•Start number 11 was manually annotated 3 times for cluster FO.
•Start number 20 was manually annotated 2 times for cluster FO.
•Start number 21 was manually annotated 2 times for cluster FO.

Info for manual annotations of cluster N:
•Start number 12 was manually annotated 44 times for cluster N.
•Start number 15 was manually annotated 1 time for cluster N.

Gene Information:

Gene: Abidatro_8 Start: 6875, Stop: 7084, Start Num: 21
Candidate Starts for Abidatro_8:
(17, 6830), (Start: 21 @6875 has 36 MA's),

Gene: Aggie_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Aggie_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: AlexMinion_7 Start: 6509, Stop: 6718, Start Num: 21
Candidate Starts for AlexMinion_7:
(8, 6431), (Start: 21 @6509 has 36 MA's), (23, 6530), (30, 6611),

Gene: Amanises_9 Start: 7098, Stop: 7280, Start Num: 21
Candidate Starts for Amanises_9:
(Start: 21 @7098 has 36 MA's),

Gene: Amelia_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Amelia_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Andies_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Andies_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Antrice_8 Start: 6824, Stop: 7024, Start Num: 21

Candidate Starts for Antrice_8:
(18, 6785), (Start: 21 @6824 has 36 MA's),

Gene: Aoka_8 Start: 7232, Stop: 7573, Start Num: 11
Candidate Starts for Aoka_8:
(Start: 11 @7232 has 3 MA's), (Start: 21 @7298 has 36 MA's),

Gene: BabeRuth_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for BabeRuth_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: BadWillHunting_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for BadWillHunting_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Basilisk_8 Start: 7139, Stop: 7408, Start Num: 21
Candidate Starts for Basilisk_8:
(14, 7082), (16, 7088), (Start: 21 @7139 has 36 MA's),

Gene: Bedetta_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Bedetta_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Bibble12_9 Start: 7080, Stop: 7283, Start Num: 21
Candidate Starts for Bibble12_9:
(Start: 21 @7080 has 36 MA's), (23, 7101), (25, 7116), (26, 7125),

Gene: Bosection6_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Bosection6_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: BrayBeast_7 Start: 6205, Stop: 6471, Start Num: 20
Candidate Starts for BrayBeast_7:
(Start: 20 @6205 has 4 MA's), (23, 6226), (31, 6316),

Gene: Brynnie_8 Start: 6936, Stop: 7220, Start Num: 21
Candidate Starts for Brynnie_8:
(14, 6879), (16, 6885), (Start: 21 @6936 has 36 MA's),

Gene: Butters_7 Start: 5729, Stop: 5977, Start Num: 12
Candidate Starts for Butters_7:
(3, 5600), (5, 5675), (6, 5678), (Start: 12 @5729 has 44 MA's), (22, 5798), (23, 5813), (27, 5840),

Gene: Carcharodon_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Carcharodon_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Charlie_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Charlie_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Chewbacca_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Chewbacca_7:

(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Chicken_8 Start: 6886, Stop: 7068, Start Num: 21
Candidate Starts for Chicken_8:
(Start: 21 @6886 has 36 MA's), (24, 6913),

Gene: CocoCinnamon_10 Start: 7373, Stop: 7678, Start Num: 20
Candidate Starts for CocoCinnamon_10:
(Start: 20 @7373 has 4 MA's), (23, 7394), (28, 7460),

Gene: Colusalem_8 Start: 6916, Stop: 7119, Start Num: 21
Candidate Starts for Colusalem_8:
(Start: 21 @6916 has 36 MA's), (23, 6937), (25, 6952), (26, 6961),

Gene: Coral_8 Start: 6916, Stop: 7119, Start Num: 21
Candidate Starts for Coral_8:
(Start: 21 @6916 has 36 MA's), (23, 6937), (25, 6952), (26, 6961), (34, 7051),

Gene: Cote_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Cote_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Cubone_7 Start: 5736, Stop: 5987, Start Num: 12
Candidate Starts for Cubone_7:
(1, 5334), (2, 5436), (Start: 12 @5736 has 44 MA's), (22, 5805), (23, 5820),

Gene: Cygnet_8 Start: 6857, Stop: 7063, Start Num: 21
Candidate Starts for Cygnet_8:
(Start: 21 @6857 has 36 MA's),

Gene: Damocles_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Damocles_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Daob_9 Start: 7080, Stop: 7283, Start Num: 21
Candidate Starts for Daob_9:
(Start: 21 @7080 has 36 MA's), (23, 7101), (25, 7116), (26, 7125),

Gene: Duplicity_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Duplicity_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: EGUnicorn_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for EGUnicorn_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Eesa_8 Start: 7101, Stop: 7283, Start Num: 21
Candidate Starts for Eesa_8:
(Start: 21 @7101 has 36 MA's),

Gene: EvenBluerMoon_8 Start: 7230, Stop: 7607, Start Num: 11
Candidate Starts for EvenBluerMoon_8:
(Start: 11 @7230 has 3 MA's), (Start: 21 @7296 has 36 MA's),

Gene: Fulbright_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Fulbright_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Galaxy_8 Start: 6882, Stop: 7091, Start Num: 21
Candidate Starts for Galaxy_8:
(17, 6837), (Start: 21 @6882 has 36 MA's),

Gene: Gex_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Gex_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: GramZayde_8 Start: 6916, Stop: 7119, Start Num: 21
Candidate Starts for GramZayde_8:
(Start: 21 @6916 has 36 MA's), (23, 6937), (25, 6952), (26, 6961),

Gene: Gravel_9 Start: 7098, Stop: 7280, Start Num: 21
Candidate Starts for Gravel_9:
(Start: 21 @7098 has 36 MA's),

Gene: Hanako_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Hanako_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: HannahPhantana_9 Start: 7080, Stop: 7283, Start Num: 21
Candidate Starts for HannahPhantana_9:
(Start: 21 @7080 has 36 MA's), (23, 7101), (25, 7116), (26, 7125),

Gene: Hereford_9 Start: 7411, Stop: 7752, Start Num: 11
Candidate Starts for Hereford_9:
(Start: 11 @7411 has 3 MA's), (Start: 21 @7477 has 36 MA's),

Gene: Impisi_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Impisi_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Jamie19_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Jamie19_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Jamun_8 Start: 7154, Stop: 7432, Start Num: 21
Candidate Starts for Jamun_8:
(14, 7097), (16, 7103), (Start: 21 @7154 has 36 MA's),

Gene: JanetJ_8 Start: 7079, Stop: 7387, Start Num: 21
Candidate Starts for JanetJ_8:
(Start: 21 @7079 has 36 MA's), (23, 7103),

Gene: JeanClaude_7 Start: 6199, Stop: 6378, Start Num: 32
Candidate Starts for JeanClaude_7:
(4, 5911), (13, 5992), (32, 6199), (33, 6220),

Gene: Jerole_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Jerole_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Journey_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Journey_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: KendraB23_9 Start: 7098, Stop: 7280, Start Num: 21
Candidate Starts for KendraB23_9:
(Start: 21 @7098 has 36 MA's),

Gene: Kepler_8 Start: 6915, Stop: 7118, Start Num: 21
Candidate Starts for Kepler_8:
(Start: 21 @6915 has 36 MA's), (23, 6936), (25, 6951), (26, 6960),

Gene: Kevin1_7 Start: 5729, Stop: 5977, Start Num: 12
Candidate Starts for Kevin1_7:
(3, 5600), (5, 5675), (6, 5678), (Start: 12 @5729 has 44 MA's), (22, 5798),

Gene: Leona_7 Start: 6489, Stop: 6743, Start Num: 10
Candidate Starts for Leona_7:
(Start: 10 @6489 has 1 MA's), (Start: 21 @6552 has 36 MA's), (23, 6573), (30, 6654),

Gene: LittleTokyo_8 Start: 6828, Stop: 7022, Start Num: 21
Candidate Starts for LittleTokyo_8:
(Start: 21 @6828 has 36 MA's),

Gene: Lunar_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Lunar_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Magsby_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Magsby_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Maja_7 Start: 6613, Stop: 6900, Start Num: 20
Candidate Starts for Maja_7:
(Start: 20 @6613 has 4 MA's), (23, 6634),

Gene: MargaretKali_8 Start: 6706, Stop: 6972, Start Num: 20
Candidate Starts for MargaretKali_8:
(Start: 20 @6706 has 4 MA's), (29, 6799),

Gene: Melons_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Melons_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: MichelleMyBell_7 Start: 5758, Stop: 5997, Start Num: 15
Candidate Starts for MichelleMyBell_7:
(3, 5614), (6, 5692), (7, 5701), (Start: 15 @5758 has 1 MA's), (19, 5788), (22, 5818),

Gene: Moosehead_7 Start: 5649, Stop: 5903, Start Num: 9

Candidate Starts for Moosehead_7:
(Start: 9 @5649 has 1 MA's), (Start: 20 @5724 has 4 MA's),

Gene: Morrey_11 Start: 7232, Stop: 7609, Start Num: 11
Candidate Starts for Morrey_11:
(Start: 11 @7232 has 3 MA's), (Start: 21 @7298 has 36 MA's),

Gene: Nenae_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Nenae_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Niblet_8 Start: 6886, Stop: 7068, Start Num: 21
Candidate Starts for Niblet_8:
(Start: 21 @6886 has 36 MA's), (24, 6913),

Gene: Orcanus_8 Start: 6891, Stop: 7073, Start Num: 21
Candidate Starts for Orcanus_8:
(Start: 21 @6891 has 36 MA's),

Gene: OtsoOtso_8 Start: 6916, Stop: 7119, Start Num: 21
Candidate Starts for OtsoOtso_8:
(Start: 21 @6916 has 36 MA's), (23, 6937), (25, 6952), (26, 6961),

Gene: Panchino_7 Start: 5753, Stop: 5980, Start Num: 12
Candidate Starts for Panchino_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Parmesanjohn_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Parmesanjohn_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Pelletreau_9 Start: 7098, Stop: 7280, Start Num: 21
Candidate Starts for Pelletreau_9:
(Start: 21 @7098 has 36 MA's),

Gene: PhancyPhin_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for PhancyPhin_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Philonius_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Philonius_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: PhirstandPhine_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for PhirstandPhine_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Phloss_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Phloss_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Phrann_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Phrann_7:

(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Pineda_9 Start: 7077, Stop: 7280, Start Num: 21
Candidate Starts for Pineda_9:
(Start: 21 @7077 has 36 MA's), (23, 7098), (25, 7113), (26, 7122),

Gene: Pipsqueaks_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Pipsqueaks_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Polka_8 Start: 6916, Stop: 7119, Start Num: 21
Candidate Starts for Polka_8:
(Start: 21 @6916 has 36 MA's), (23, 6937), (25, 6952), (26, 6961),

Gene: PrairieDogTown_8 Start: 7298, Stop: 7609, Start Num: 21
Candidate Starts for PrairieDogTown_8:
(Start: 11 @7232 has 3 MA's), (Start: 21 @7298 has 36 MA's),

Gene: Purgamenstris_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Purgamenstris_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Raymond7_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Raymond7_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Rebel_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Rebel_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Redi_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Redi_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Rubeelu_7 Start: 5729, Stop: 5977, Start Num: 12
Candidate Starts for Rubeelu_7:
(3, 5600), (5, 5675), (6, 5678), (Start: 12 @5729 has 44 MA's), (22, 5798), (23, 5813), (27, 5840),

Gene: Schnauzer_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Schnauzer_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Shen_9 Start: 7098, Stop: 7280, Start Num: 21
Candidate Starts for Shen_9:
(Start: 21 @7098 has 36 MA's),

Gene: ShrimpFriedEgg_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for ShrimpFriedEgg_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Shweta_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Shweta_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Silvafighter_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Silvafighter_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Silvy_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Silvy_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: SkinnyPete_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for SkinnyPete_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: Smurph_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Smurph_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Spinach_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for Spinach_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: SpongeBob_7 Start: 5753, Stop: 6004, Start Num: 12
Candidate Starts for SpongeBob_7:
(1, 5351), (2, 5453), (Start: 12 @5753 has 44 MA's), (22, 5822), (23, 5837),

Gene: StuartMinion_7 Start: 6509, Stop: 6718, Start Num: 21
Candidate Starts for StuartMinion_7:
(8, 6431), (Start: 21 @6509 has 36 MA's), (23, 6530), (30, 6611),

Gene: Tapioca_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Tapioca_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: TaylorSipht_8 Start: 6914, Stop: 7159, Start Num: 21
Candidate Starts for TaylorSipht_8:
(Start: 21 @6914 has 36 MA's),

Gene: Toad24_9 Start: 7098, Stop: 7280, Start Num: 21
Candidate Starts for Toad24_9:
(Start: 21 @7098 has 36 MA's),

Gene: Tortoise12_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Tortoise12_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Westrich_9 Start: 7086, Stop: 7268, Start Num: 21
Candidate Starts for Westrich_9:
(Start: 21 @7086 has 36 MA's),

Gene: Xeno_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Xeno_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Xerxes_7 Start: 5730, Stop: 5963, Start Num: 12
Candidate Starts for Xerxes_7:
(Start: 12 @5730 has 44 MA's), (22, 5799), (23, 5814),

Gene: Zhuangyuan_9 Start: 7207, Stop: 7446, Start Num: 21
Candidate Starts for Zhuangyuan_9:
(Start: 21 @7207 has 36 MA's),

Gene: Zixiang_8 Start: 6886, Stop: 7068, Start Num: 21
Candidate Starts for Zixiang_8:
(Start: 21 @6886 has 36 MA's), (24, 6913),