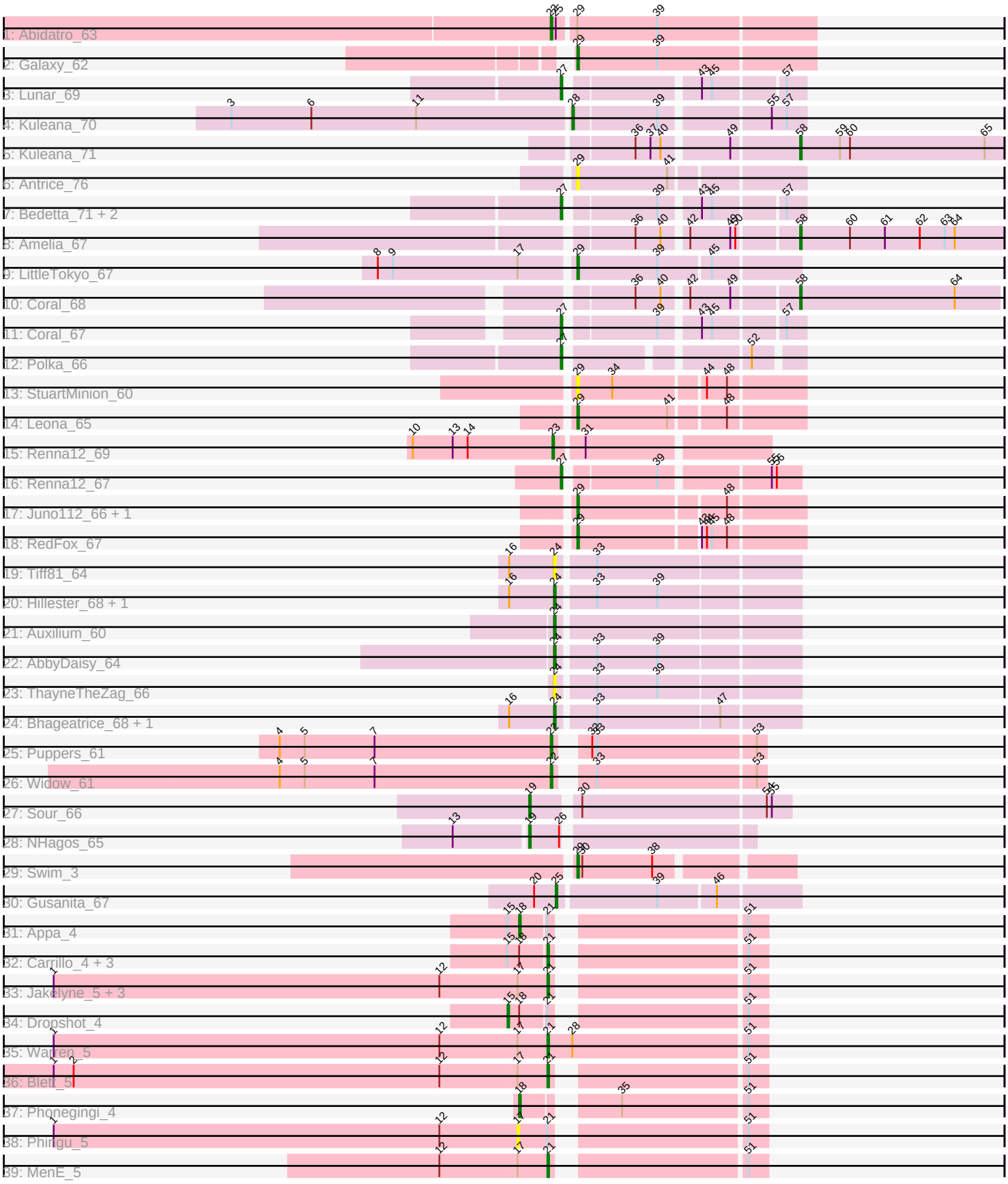
Pham 200386


1: Abidatro_63
2: Galaxy_62
3: Lunar_69
4: Kuleana_70
5: Kuleana_71
6: Antrice_76
7: Bedetta_71 + 2
8: Amelia_67
9: LittleTokyo_67
10: Coral_68
11: Coral_67
12: Polka_66
13: StuartMinion_60
14: Leona_65
15: Renna12_69
16: Renna12_67
17: Juno112_66 + 1
18: RedFox_67
19: Tiff81_64
20: Hillester_68 + 1
21: Auxilium_60
22: AbbyDaisy_64
23: ThayneTheZag_66
24: Bhageatrice_68 + 1
25: Puppers_61
26: Widow_61
27: Sour_66
28: NHagos_65
29: Swim_3
30: Gusanita_67
31: Appa_4
32: Carrillo_4 + 3
33: Jakalyne_5 + 3
34: Dropshot_4
35: Warren_5
36: Blett_5
37: Phonegingi_4
38: Phirigu_5
39: MenE_5

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 200386 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200386 has 50 members, 15 are drafts.

Phages represented in each track:
- Track 1 : Abidatro_63
- Track 2 : Galaxy_62
- Track 3 : Lunar_69
- Track 4 : Kuleana_70
- Track 5 : Kuleana_71
- Track 6 : Antrice_76
- Track 7 : Bedetta_71, HannahPhantana_68, Amelia_66
- Track 8 : Amelia_67
- Track 9 : LittleTokyo_67
- Track 10 : Coral_68
- Track 11 : Coral_67
- Track 12 : Polka_66
- Track 13 : StuartMinion_60
- Track 14 : Leona_65
- Track 15 : Renna12_69
- Track 16 : Renna12_67
- Track 17 : Juno112_66, Atlantica_68
- Track 18 : RedFox_67
- Track 19 : Tiff81_64
- Track 20 : Hillester_68, RadFad_68
- Track 21 : Auxilium_60
- Track 22 : AbbyDaisy_64
- Track 23 : ThayneTheZag_66
- Track 24 : Bhageatrice_68, Seahorse_66
- Track 25 : Puppers_61
- Track 26 : Widow_61
- Track 27 : Sour_66
- Track 28 : NHagos_65
- Track 29 : Swim_3
- Track 30 : Gusanita_67
- Track 31 : Appa_4
- Track 32 : Carrillo_4, Guzman_4, Antuna_4, PhillyJawn_4
- Track 33 : Jakelyne_5, Bush_5, CookieDog_5, Losacky_5
- Track 34 : Dropshot_4
- Track 35 : Warren_5
- Track 36 : Blett_5
- Track 37 : Phonegingi_4

• Track 38 : Phingu_5
• Track 39 : MenE_5

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

The start number called the most often in the published annotations is 27, it was called in 6 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_66, Bedetta_71, Coral_67, HannahPhantana_68, Lunar_69, Polka_66, Renna12_67,

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

Genes that do not have the "Most Annotated" start:
• AbbyDaisy_64, Abidatro_63, Amelia_67, Antrice_76, Antuna_4, Appa_4, Atlantica_68, Auxilium_60, Bhageatrice_68, Blett_5, Bush_5, Carrillo_4, CookieDog_5, Coral_68, Dropshot_4, Galaxy_62, Gusanita_67, Guzman_4, Hillester_68, Jakelyne_5, Juno112_66, Kuleana_70, Kuleana_71, Leona_65, LittleTokyo_67, Losacky_5, MenE_5, NHagos_65, PhillyJawn_4, Phingu_5, Phonegingi_4, Puppers_61, RadFad_68, RedFox_67, Renna12_69, Seahorse_66, Sour_66, StuartMinion_60, Swim_3, ThayneTheZag_66, Tiff81_64, Warren_5, Widow_61,

Summary by start number:

Start 15:
• Found in 6 of 50 (12.0%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Dropshot_4 (GA),

Start 17:
• Found in 9 of 50 (18.0%) of genes in pham
• No Manual Annotations of this start.
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Phingu_5 (GA),

Start 18:
• Found in 7 of 50 (14.0%) of genes in pham
• Manual Annotations of this start: 2 of 35
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Appa_4 (GA), Phonegingi_4 (GA),

Start 19:
• Found in 2 of 50 (4.0%) of genes in pham
• Manual Annotations of this start: 2 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NHagos_65 (DR), Sour_66 (DR),

Start 21:
• Found in 14 of 50 (28.0%) of genes in pham
• Manual Annotations of this start: 5 of 35
• Called 78.6% of time when present
• Phage (with cluster) where this start called: Antuna_4 (GA), Blett_5 (GA), Bush_5 (GA), Carrillo_4 (GA), CookieDog_5 (GA), Guzman_4 (GA), Jakelyne_5 (GA), Losacky_5 (GA), MenE_5 (GA), PhillyJawn_4 (GA), Warren_5 (GA),

Start 22:
• Found in 3 of 50 (6.0%) of genes in pham
• Manual Annotations of this start: 3 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abidatro_63 (AS1), Puppers_61 (CD), Widow_61 (CD),

Start 23:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Renna12_69 (AS3),

Start 24:
• Found in 8 of 50 (16.0%) of genes in pham
• Manual Annotations of this start: 4 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_64 (AY), Auxilium_60 (AY), Bhageatrice_68 (AY), Hillester_68 (AY), RadFad_68 (AY), Seahorse_66 (AY), ThayneTheZag_66 (AY), Tiff81_64 (AY),

Start 25:
• Found in 2 of 50 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Gusanita_67 (FF),

Start 27:
• Found in 7 of 50 (14.0%) of genes in pham
• Manual Annotations of this start: 6 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_66 (AS2), Bedetta_71 (AS2), Coral_67 (AS2), HannahPhantana_68 (AS2), Lunar_69 (AS2), Polka_66 (AS2), Renna12_67 (AS3),

Start 28:
• Found in 2 of 50 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kuleana_70 (AS2),

Start 29:
• Found in 10 of 50 (20.0%) of genes in pham
• Manual Annotations of this start: 6 of 35

• Called 90.0% of time when present
• Phage (with cluster) where this start called: Antrice_76 (AS2), Atlantica_68 (AS3), Galaxy_62 (AS1), Juno112_66 (AS3), Leona_65 (AS3), LittleTokyo_67 (AS2), RedFox_67 (AS3), StuartMinion_60 (AS3), Swim_3 (FD),

Start 58:
• Found in 3 of 50 (6.0%) of genes in pham
• Manual Annotations of this start: 3 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_67 (AS2), Coral_68 (AS2), Kuleana_71 (AS2),

Summary by clusters:

There are 9 clusters represented in this pham: AS3, AS2, AS1, FF, CD, FD, GA, AY, DR,

Info for manual annotations of cluster AS1:
•Start number 22 was manually annotated 1 time for cluster AS1.
•Start number 29 was manually annotated 1 time for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 27 was manually annotated 5 times for cluster AS2.
•Start number 28 was manually annotated 1 time for cluster AS2.
•Start number 29 was manually annotated 1 time for cluster AS2.
•Start number 58 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 23 was manually annotated 1 time for cluster AS3.
•Start number 27 was manually annotated 1 time for cluster AS3.
•Start number 29 was manually annotated 3 times for cluster AS3.

Info for manual annotations of cluster AY:
•Start number 24 was manually annotated 4 times for cluster AY.

Info for manual annotations of cluster CD:
•Start number 22 was manually annotated 2 times for cluster CD.

Info for manual annotations of cluster DR:
•Start number 19 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster FD:
•Start number 29 was manually annotated 1 time for cluster FD.

Info for manual annotations of cluster FF:
•Start number 25 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster GA:
•Start number 15 was manually annotated 1 time for cluster GA.
•Start number 18 was manually annotated 2 times for cluster GA.
•Start number 21 was manually annotated 5 times for cluster GA.

Gene Information:

Gene: AbbyDaisy_64 Start: 35318, Stop: 35455, Start Num: 24
Candidate Starts for AbbyDaisy_64:
(Start: 24 @35318 has 4 MA's), (33, 35339), (39, 35375),

Gene: Abidatro_63 Start: 37722, Stop: 37874, Start Num: 22
Candidate Starts for Abidatro_63:
(Start: 22 @37722 has 3 MA's), (Start: 25 @37725 has 1 MA's), (Start: 29 @37734 has 6 MA's), (39, 37782),

Gene: Amelia_66 Start: 36727, Stop: 36852, Start Num: 27
Candidate Starts for Amelia_66:
(Start: 27 @36727 has 6 MA's), (39, 36775), (43, 36796), (45, 36802), (57, 36841),

Gene: Amelia_67 Start: 36849, Stop: 36971, Start Num: 58
Candidate Starts for Amelia_67:
(36, 36762), (40, 36777), (42, 36789), (49, 36813), (50, 36816), (Start: 58 @36849 has 3 MA's), (60, 36879), (61, 36900), (62, 36921), (63, 36936), (64, 36942),

Gene: Antrice_76 Start: 37839, Stop: 37967, Start Num: 29
Candidate Starts for Antrice_76:
(Start: 29 @37839 has 6 MA's), (41, 37893),

Gene: Antuna_4 Start: 880, Stop: 993, Start Num: 21
Candidate Starts for Antuna_4:
(Start: 15 @859 has 1 MA's), (Start: 18 @865 has 2 MA's), (Start: 21 @880 has 5 MA's), (51, 982),

Gene: Appa_4 Start: 883, Stop: 1011, Start Num: 18
Candidate Starts for Appa_4:
(Start: 15 @877 has 1 MA's), (Start: 18 @883 has 2 MA's), (Start: 21 @898 has 5 MA's), (51, 1000),

Gene: Atlantica_68 Start: 37422, Stop: 37550, Start Num: 29
Candidate Starts for Atlantica_68:
(Start: 29 @37422 has 6 MA's), (48, 37506),

Gene: Auxilium_60 Start: 32290, Stop: 32427, Start Num: 24
Candidate Starts for Auxilium_60:
(Start: 24 @32290 has 4 MA's),

Gene: Bedetta_71 Start: 36890, Stop: 37015, Start Num: 27
Candidate Starts for Bedetta_71:
(Start: 27 @36890 has 6 MA's), (39, 36938), (43, 36959), (45, 36965), (57, 37004),

Gene: Bhageatrice_68 Start: 37131, Stop: 37268, Start Num: 24
Candidate Starts for Bhageatrice_68:
(16, 37104), (Start: 24 @37131 has 4 MA's), (33, 37152), (47, 37224),

Gene: Blett_5 Start: 1053, Stop: 1166, Start Num: 21
Candidate Starts for Blett_5:
(1, 759), (2, 771), (12, 990), (17, 1035), (Start: 21 @1053 has 5 MA's), (51, 1155),

Gene: Bush_5 Start: 1059, Stop: 1172, Start Num: 21

Candidate Starts for Bush_5:
(1, 765), (12, 996), (17, 1041), (Start: 21 @1059 has 5 MA's), (51, 1161),

Gene: Carrillo_4 Start: 892, Stop: 1005, Start Num: 21
Candidate Starts for Carrillo_4:
(Start: 15 @871 has 1 MA's), (Start: 18 @877 has 2 MA's), (Start: 21 @892 has 5 MA's), (51, 994),

Gene: CookieDog_5 Start: 1059, Stop: 1172, Start Num: 21
Candidate Starts for CookieDog_5:
(1, 765), (12, 996), (17, 1041), (Start: 21 @1059 has 5 MA's), (51, 1161),

Gene: Coral_68 Start: 37035, Stop: 37154, Start Num: 58
Candidate Starts for Coral_68:
(36, 36948), (40, 36963), (42, 36975), (49, 36999), (Start: 58 @37035 has 3 MA's), (64, 37128),

Gene: Coral_67 Start: 36913, Stop: 37038, Start Num: 27
Candidate Starts for Coral_67:
(Start: 27 @36913 has 6 MA's), (39, 36961), (43, 36982), (45, 36988), (57, 37027),

Gene: Dropshot_4 Start: 877, Stop: 1011, Start Num: 15
Candidate Starts for Dropshot_4:
(Start: 15 @877 has 1 MA's), (Start: 18 @883 has 2 MA's), (Start: 21 @898 has 5 MA's), (51, 1000),

Gene: Galaxy_62 Start: 36560, Stop: 36700, Start Num: 29
Candidate Starts for Galaxy_62:
(Start: 29 @36560 has 6 MA's), (39, 36608),

Gene: Gusanita_67 Start: 41673, Stop: 41810, Start Num: 25
Candidate Starts for Gusanita_67:
(20, 41661), (Start: 25 @41673 has 1 MA's), (39, 41730), (46, 41763),

Gene: Guzman_4 Start: 892, Stop: 1005, Start Num: 21
Candidate Starts for Guzman_4:
(Start: 15 @871 has 1 MA's), (Start: 18 @877 has 2 MA's), (Start: 21 @892 has 5 MA's), (51, 994),

Gene: HannahPhantana_68 Start: 36722, Stop: 36847, Start Num: 27
Candidate Starts for HannahPhantana_68:
(Start: 27 @36722 has 6 MA's), (39, 36770), (43, 36791), (45, 36797), (57, 36836),

Gene: Hillester_68 Start: 35895, Stop: 36032, Start Num: 24
Candidate Starts for Hillester_68:
(16, 35868), (Start: 24 @35895 has 4 MA's), (33, 35916), (39, 35952),

Gene: Jakelyne_5 Start: 1053, Stop: 1166, Start Num: 21
Candidate Starts for Jakelyne_5:
(1, 759), (12, 990), (17, 1035), (Start: 21 @1053 has 5 MA's), (51, 1155),

Gene: Juno112_66 Start: 37424, Stop: 37552, Start Num: 29
Candidate Starts for Juno112_66:
(Start: 29 @37424 has 6 MA's), (48, 37508),

Gene: Kuleana_70 Start: 37424, Stop: 37552, Start Num: 28
Candidate Starts for Kuleana_70:

(3, 37223), (6, 37271), (11, 37334), (Start: 28 @37424 has 1 MA's), (39, 37472), (55, 37532), (57, 37541),

Gene: Kuleana_71 Start: 37549, Stop: 37671, Start Num: 58
Candidate Starts for Kuleana_71:
(36, 37459), (37, 37468), (40, 37474), (49, 37510), (Start: 58 @37549 has 3 MA's), (59, 37573), (60, 37579), (65, 37660),

Gene: Leona_65 Start: 37507, Stop: 37635, Start Num: 29
Candidate Starts for Leona_65:
(Start: 29 @37507 has 6 MA's), (41, 37561), (48, 37591),

Gene: LittleTokyo_67 Start: 36418, Stop: 36546, Start Num: 29
Candidate Starts for LittleTokyo_67:
(8, 36304), (9, 36313), (17, 36388), (Start: 29 @36418 has 6 MA's), (39, 36466), (45, 36496),

Gene: Losacky_5 Start: 1050, Stop: 1163, Start Num: 21
Candidate Starts for Losacky_5:
(1, 756), (12, 987), (17, 1032), (Start: 21 @1050 has 5 MA's), (51, 1152),

Gene: Lunar_69 Start: 37045, Stop: 37170, Start Num: 27
Candidate Starts for Lunar_69:
(Start: 27 @37045 has 6 MA's), (43, 37114), (45, 37120), (57, 37159),

Gene: MenE_5 Start: 1059, Stop: 1172, Start Num: 21
Candidate Starts for MenE_5:
(12, 996), (17, 1041), (Start: 21 @1059 has 5 MA's), (51, 1161),

Gene: NHagos_65 Start: 52079, Stop: 52204, Start Num: 19
Candidate Starts for NHagos_65:
(13, 52037), (Start: 19 @52079 has 2 MA's), (26, 52097),

Gene: PhillyJawn_4 Start: 898, Stop: 1011, Start Num: 21
Candidate Starts for PhillyJawn_4:
(Start: 15 @877 has 1 MA's), (Start: 18 @883 has 2 MA's), (Start: 21 @898 has 5 MA's), (51, 1000),

Gene: Phingu_5 Start: 1044, Stop: 1175, Start Num: 17
Candidate Starts for Phingu_5:
(1, 768), (12, 999), (17, 1044), (Start: 21 @1062 has 5 MA's), (51, 1164),

Gene: Phonegingi_4 Start: 872, Stop: 1000, Start Num: 18
Candidate Starts for Phonegingi_4:
(Start: 18 @872 has 2 MA's), (35, 917), (51, 989),

Gene: Polka_66 Start: 36577, Stop: 36696, Start Num: 27
Candidate Starts for Polka_66:
(Start: 27 @36577 has 6 MA's), (52, 36670),

Gene: Puppers_61 Start: 41680, Stop: 41793, Start Num: 22
Candidate Starts for Puppers_61:
(4, 41518), (5, 41533), (7, 41575), (Start: 22 @41680 has 3 MA's), (32, 41692), (33, 41695), (53, 41788),

Gene: RadFad_68 Start: 35895, Stop: 36032, Start Num: 24
Candidate Starts for RadFad_68:
(16, 35868), (Start: 24 @35895 has 4 MA's), (33, 35916), (39, 35952),

Gene: RedFox_67 Start: 37521, Stop: 37649, Start Num: 29
Candidate Starts for RedFox_67:
(Start: 29 @37521 has 6 MA's), (43, 37590), (44, 37593), (45, 37596), (48, 37605),

Gene: Renna12_69 Start: 38028, Stop: 38147, Start Num: 23
Candidate Starts for Renna12_69:
(10, 37944), (13, 37968), (14, 37977), (Start: 23 @38028 has 1 MA's), (31, 38043),

Gene: Renna12_67 Start: 37634, Stop: 37759, Start Num: 27
Candidate Starts for Renna12_67:
(Start: 27 @37634 has 6 MA's), (39, 37682), (55, 37742), (56, 37745),

Gene: Seahorse_66 Start: 36402, Stop: 36539, Start Num: 24
Candidate Starts for Seahorse_66:
(16, 36375), (Start: 24 @36402 has 4 MA's), (33, 36423), (47, 36495),

Gene: Sour_66 Start: 54996, Stop: 55142, Start Num: 19
Candidate Starts for Sour_66:
(Start: 19 @54996 has 2 MA's), (30, 55020), (54, 55128), (55, 55131),

Gene: StuartMinion_60 Start: 33885, Stop: 34013, Start Num: 29
Candidate Starts for StuartMinion_60:
(Start: 29 @33885 has 6 MA's), (34, 33906), (44, 33957), (48, 33969),

Gene: Swim_3 Start: 1143, Stop: 1024, Start Num: 29
Candidate Starts for Swim_3:
(Start: 29 @1143 has 6 MA's), (30, 1140), (38, 1098),

Gene: ThayneTheZag_66 Start: 34569, Stop: 34706, Start Num: 24
Candidate Starts for ThayneTheZag_66:
(Start: 24 @34569 has 4 MA's), (33, 34590), (39, 34626),

Gene: Tiff81_64 Start: 32815, Stop: 32952, Start Num: 24
Candidate Starts for Tiff81_64:
(16, 32788), (Start: 24 @32815 has 4 MA's), (33, 32836),

Gene: Warren_5 Start: 1062, Stop: 1190, Start Num: 21
Candidate Starts for Warren_5:
(1, 768), (12, 999), (17, 1044), (Start: 21 @1062 has 5 MA's), (Start: 28 @1077 has 1 MA's), (51, 1179),

Gene: Widow_61 Start: 42226, Stop: 42339, Start Num: 22
Candidate Starts for Widow_61:
(4, 42064), (5, 42079), (7, 42121), (Start: 22 @42226 has 3 MA's), (33, 42241), (53, 42334),