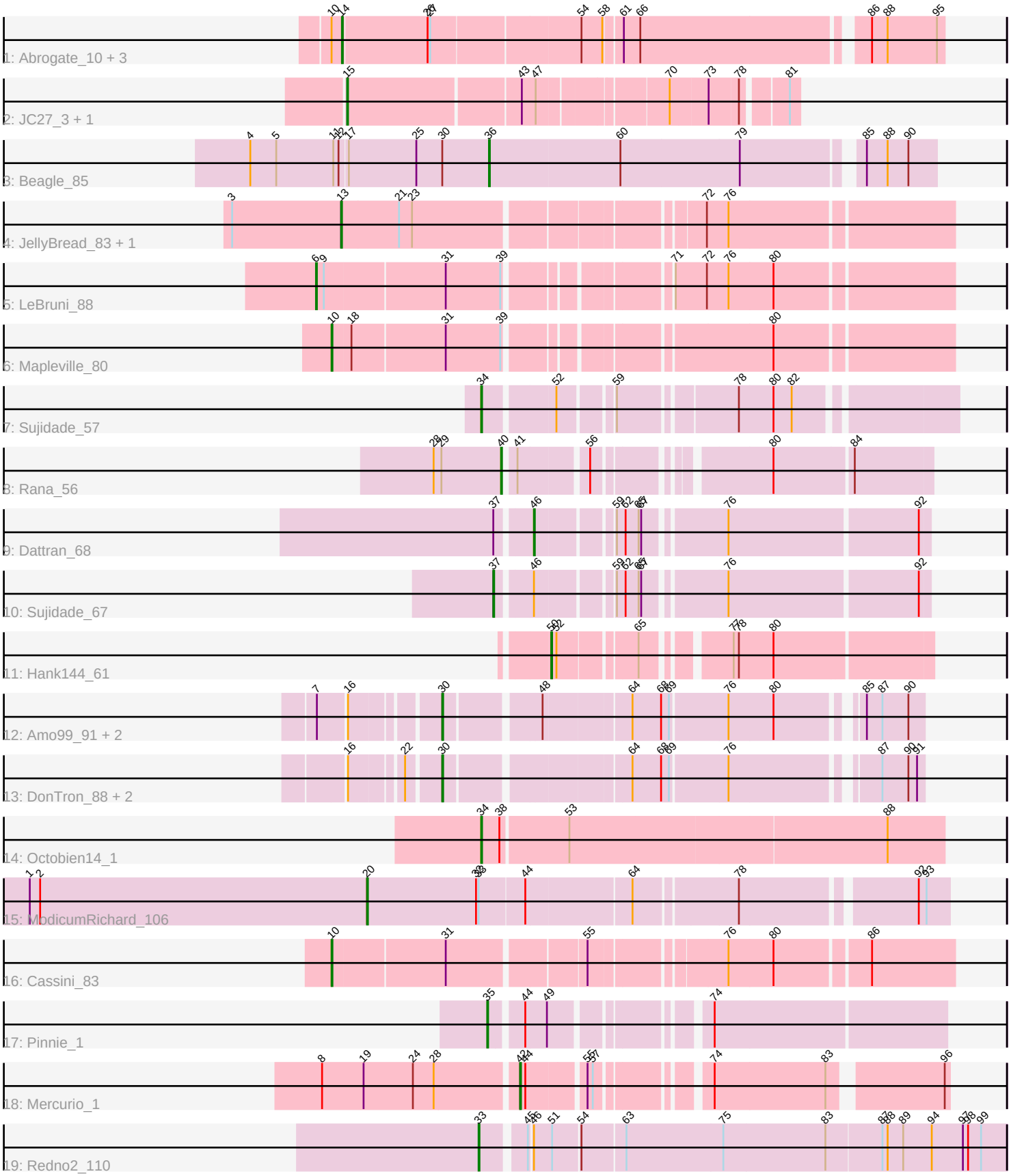
Pham 347928


1: Abrogate_10 + 3
2: JC27_3 + 1
3: Beagle_85
4: JellyBread_83 + 1
5: LeBruni_88
6: Mapleville_80
7: Sujidade_57
8: Rana_56
9: Dattran_68
10: Sujidade_67
11: Hank144_61
12: Amo99_91 + 2
13: DonTron_88 + 2
14: Octobien14_1
15: ModicumRichard_106
16: Cassini_83
17: Pinnie_1
18: Mercurio_1
19: Redno2_110

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 347928 Report

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

Pham number 347928 has 28 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Abrogate_10, DreamCatcher_1, Ruotula_1, Sanya_1
• Track 2 : JC27_3, Peterson_2
• Track 3 : Beagle_85
• Track 4 : JellyBread_83, BlackSpider_75
• Track 5 : LeBruni_88
• Track 6 : Mapleville_80
• Track 7 : Sujidade_57
• Track 8 : Rana_56
• Track 9 : Dattran_68
• Track 10 : Sujidade_67
• Track 11 : Hank144_61
• Track 12 : Amo99_91, Jollymon_88, ColdSoup_91
• Track 13 : DonTron_88, Soos_84, Sting_87
• Track 14 : Octobien14_1
• Track 15 : ModicumRichard_106
• Track 16 : Cassini_83
• Track 17 : Pinnie_1
• Track 18 : Mercurio_1
• Track 19 : Redno2_110

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

The start number called the most often in the published annotations is 30, it was called in 4 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amo99_91, ColdSoup_91, DonTron_88, Jollymon_88, Soos_84, Sting_87,

Genes that have the "Most Annotated" start but do not call it:
• Beagle_85,

Genes that do not have the "Most Annotated" start:
• Abrogate_10, BlackSpider_75, Cassini_83, Dattran_68, DreamCatcher_1, Hank144_61, JC27_3, JellyBread_83, LeBruni_88, Mapleville_80, Mercurio_1,

ModicumRichard_106, Octobien14_1, Peterson_2, Pinnie_1, Rana_56, Redno2_110, Ruotula_1, Sanya_1, Sujidade_57, Sujidade_67,

Summary by start number:

Start 6:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LeBruni_88 (AY),

Start 10:
• Found in 6 of 28 (21.4%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Cassini_83 (FN), Mapleville_80 (AY),

Start 13:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlackSpider_75 (FN), JellyBread_83 (AY),

Start 14:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abrogate_10 (A1), DreamCatcher_1 (A1), Ruotula_1 (A1), Sanya_1 (A1),

Start 15:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JC27_3 (A1), Peterson_2 (A1),

Start 20:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ModicumRichard_106 (DZ),

Start 30:
• Found in 7 of 28 (25.0%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Amo99_91 (CP), ColdSoup_91 (CP), DonTron_88 (CP), Jollymon_88 (CP), Soos_84 (CP), Sting_87 (CP),

Start 33:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 26

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Redno2_110 (J),

Start 34:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Octobien14_1 (DU1), Sujidade_57 (BD1),

Start 35:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pinnie_1 (G3),

Start 36:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beagle_85 (AP2),

Start 37:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sujidade_67 (BD1),

Start 40:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rana_56 (BD1),

Start 42:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mercurio_1 (G4),

Start 46:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Dattran_68 (BD1),

Start 50:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hank144_61 (BD2),

Summary by clusters:

There are 12 clusters represented in this pham: G4, G3, AP2, J, A1, BD1, BD2, AY, DU1, DZ, CP, FN,

Info for manual annotations of cluster A1:
•Start number 14 was manually annotated 4 times for cluster A1.
•Start number 15 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster AP2:
•Start number 36 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AY:
•Start number 6 was manually annotated 1 time for cluster AY.
•Start number 10 was manually annotated 1 time for cluster AY.
•Start number 13 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BD1:
•Start number 34 was manually annotated 1 time for cluster BD1.
•Start number 37 was manually annotated 1 time for cluster BD1.
•Start number 40 was manually annotated 1 time for cluster BD1.
•Start number 46 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 50 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster CP:
•Start number 30 was manually annotated 4 times for cluster CP.

Info for manual annotations of cluster DU1:
•Start number 34 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster DZ:
•Start number 20 was manually annotated 1 time for cluster DZ.

Info for manual annotations of cluster FN:
•Start number 10 was manually annotated 1 time for cluster FN.
•Start number 13 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster G3:
•Start number 35 was manually annotated 1 time for cluster G3.

Info for manual annotations of cluster G4:
•Start number 42 was manually annotated 1 time for cluster G4.

Info for manual annotations of cluster J:
•Start number 33 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Abrogate_10 Start: 697, Stop: 1347, Start Num: 14
Candidate Starts for Abrogate_10:

(Start: 10 @685 has 2 MA's), (Start: 14 @697 has 4 MA's), (26, 793), (27, 796), (54, 961), (58, 985), (61, 1003), (66, 1021), (86, 1264), (88, 1282), (95, 1339),

Gene: Amo99_91 Start: 56649, Stop: 57140, Start Num: 30
Candidate Starts for Amo99_91:
(7, 56529), (16, 56559), (Start: 30 @56649 has 4 MA's), (48, 56745), (64, 56838), (68, 56871), (69, 56880), (76, 56943), (80, 56994), (85, 57075), (87, 57093), (90, 57123),

Gene: Beagle_85 Start: 50263, Stop: 49775, Start Num: 36
Candidate Starts for Beagle_85:
(4, 50536), (5, 50506), (11, 50440), (12, 50434), (17, 50425), (25, 50347), (Start: 30 @50317 has 4 MA's), (Start: 36 @50263 has 1 MA's), (60, 50113), (79, 49978), (85, 49855), (88, 49831), (90, 49807),

Gene: BlackSpider_75 Start: 46054, Stop: 46710, Start Num: 13
Candidate Starts for BlackSpider_75:
(3, 45928), (Start: 13 @46054 has 2 MA's), (21, 46120), (23, 46135), (72, 46438), (76, 46462),

Gene: Cassini_83 Start: 47802, Stop: 48464, Start Num: 10
Candidate Starts for Cassini_83:
(Start: 10 @47802 has 2 MA's), (31, 47928), (55, 48075), (76, 48216), (80, 48267), (86, 48369),

Gene: ColdSoup_91 Start: 56730, Stop: 57221, Start Num: 30
Candidate Starts for ColdSoup_91:
(7, 56610), (16, 56640), (Start: 30 @56730 has 4 MA's), (48, 56826), (64, 56919), (68, 56952), (69, 56961), (76, 57024), (80, 57075), (85, 57156), (87, 57174), (90, 57204),

Gene: Dattran_68 Start: 45865, Stop: 45455, Start Num: 46
Candidate Starts for Dattran_68:
(Start: 37 @45901 has 1 MA's), (Start: 46 @45865 has 1 MA's), (59, 45787), (62, 45778), (65, 45763), (67, 45760), (76, 45676), (92, 45466),

Gene: DonTron_88 Start: 56608, Stop: 57099, Start Num: 30
Candidate Starts for DonTron_88:
(16, 56518), (22, 56572), (Start: 30 @56608 has 4 MA's), (64, 56797), (68, 56830), (69, 56839), (76, 56902), (87, 57052), (90, 57082), (91, 57091),

Gene: DreamCatcher_1 Start: 695, Stop: 1345, Start Num: 14
Candidate Starts for DreamCatcher_1:
(Start: 10 @683 has 2 MA's), (Start: 14 @695 has 4 MA's), (26, 791), (27, 794), (54, 959), (58, 983), (61, 1001), (66, 1019), (86, 1262), (88, 1280), (95, 1337),

Gene: Hank144_61 Start: 41838, Stop: 41452, Start Num: 50
Candidate Starts for Hank144_61:
(Start: 50 @41838 has 1 MA's), (52, 41832), (65, 41751), (77, 41670), (78, 41664), (80, 41625),

Gene: JC27_3 Start: 1139, Stop: 1612, Start Num: 15
Candidate Starts for JC27_3:
(Start: 15 @1139 has 2 MA's), (43, 1331), (47, 1346), (70, 1481), (73, 1523), (78, 1556), (81, 1601),

Gene: JellyBread_83 Start: 48413, Stop: 49069, Start Num: 13
Candidate Starts for JellyBread_83:
(3, 48287), (Start: 13 @48413 has 2 MA's), (21, 48479), (23, 48494), (72, 48797), (76, 48821),

Gene: Jollymon_88 Start: 56730, Stop: 57221, Start Num: 30
Candidate Starts for Jollymon_88:
(7, 56610), (16, 56640), (Start: 30 @56730 has 4 MA's), (48, 56826), (64, 56919), (68, 56952), (69, 56961), (76, 57024), (80, 57075), (85, 57156), (87, 57174), (90, 57204),

Gene: LeBruni_88 Start: 48740, Stop: 49414, Start Num: 6
Candidate Starts for LeBruni_88:
(Start: 6 @48740 has 1 MA's), (9, 48749), (31, 48884), (39, 48947), (71, 49106), (72, 49142), (76, 49166), (80, 49217),

Gene: Mapleville_80 Start: 47176, Stop: 47832, Start Num: 10
Candidate Starts for Mapleville_80:
(Start: 10 @47176 has 2 MA's), (18, 47197), (31, 47302), (39, 47365), (80, 47635),

Gene: Mercurio_1 Start: 275, Stop: 700, Start Num: 42
Candidate Starts for Mercurio_1:
(8, 56), (19, 104), (24, 161), (28, 185), (Start: 42 @275 has 1 MA's), (44, 281), (55, 341), (57, 347), (74, 452), (83, 578), (96, 695),

Gene: ModicumRichard_106 Start: 60143, Stop: 60772, Start Num: 20
Candidate Starts for ModicumRichard_106:
(1, 59753), (2, 59765), (Start: 20 @60143 has 1 MA's), (32, 60269), (Start: 33 @60272 has 1 MA's), (44, 60323), (64, 60440), (78, 60551), (92, 60737), (93, 60746),

Gene: Octobien14_1 Start: 652, Stop: 131, Start Num: 34
Candidate Starts for Octobien14_1:
(Start: 34 @652 has 2 MA's), (38, 631), (53, 556), (88, 196),

Gene: Peterson_2 Start: 990, Stop: 1463, Start Num: 15
Candidate Starts for Peterson_2:
(Start: 15 @990 has 2 MA's), (43, 1182), (47, 1197), (70, 1332), (73, 1374), (78, 1407), (81, 1452),

Gene: Pinnie_1 Start: 56, Stop: 520, Start Num: 35
Candidate Starts for Pinnie_1:
(Start: 35 @56 has 1 MA's), (44, 89), (49, 113), (74, 260),

Gene: Rana_56 Start: 41917, Stop: 41495, Start Num: 40
Candidate Starts for Rana_56:
(28, 41995), (29, 41986), (Start: 40 @41917 has 1 MA's), (41, 41908), (56, 41836), (80, 41668), (84, 41581),

Gene: Redno2_110 Start: 62847, Stop: 63428, Start Num: 33
Candidate Starts for Redno2_110:
(Start: 33 @62847 has 1 MA's), (45, 62892), (Start: 46 @62895 has 1 MA's), (51, 62916), (54, 62946), (63, 62994), (75, 63105), (83, 63222), (87, 63285), (88, 63291), (89, 63309), (94, 63342), (97, 63378), (98, 63384), (99, 63399),

Gene: Ruotula_1 Start: 698, Stop: 1348, Start Num: 14
Candidate Starts for Ruotula_1:
(Start: 10 @686 has 2 MA's), (Start: 14 @698 has 4 MA's), (26, 794), (27, 797), (54, 962), (58, 986), (61, 1004), (66, 1022), (86, 1265), (88, 1283), (95, 1340),

Gene: Sanya_1 Start: 697, Stop: 1347, Start Num: 14

Candidate Starts for Sanya_1:
(Start: 10 @685 has 2 MA's), (Start: 14 @697 has 4 MA's), (26, 793), (27, 796), (54, 961), (58, 985), (61, 1003), (66, 1021), (86, 1264), (88, 1282), (95, 1339),

Gene: Soos_84 Start: 55934, Stop: 56425, Start Num: 30
Candidate Starts for Soos_84:
(16, 55844), (22, 55898), (Start: 30 @55934 has 4 MA's), (64, 56123), (68, 56156), (69, 56165), (76, 56228), (87, 56378), (90, 56408), (91, 56417),

Gene: Sting_87 Start: 56373, Stop: 56864, Start Num: 30
Candidate Starts for Sting_87:
(16, 56283), (22, 56337), (Start: 30 @56373 has 4 MA's), (64, 56562), (68, 56595), (69, 56604), (76, 56667), (87, 56817), (90, 56847), (91, 56856),

Gene: Sujidade_57 Start: 42775, Stop: 42293, Start Num: 34
Candidate Starts for Sujidade_57:
(Start: 34 @42775 has 2 MA's), (52, 42700), (59, 42646), (78, 42523), (80, 42484), (82, 42463),

Gene: Sujidade_67 Start: 46444, Stop: 45998, Start Num: 37
Candidate Starts for Sujidade_67:
(Start: 37 @46444 has 1 MA's), (Start: 46 @46408 has 1 MA's), (59, 46330), (62, 46321), (65, 46306), (67, 46303), (76, 46219), (92, 46009),