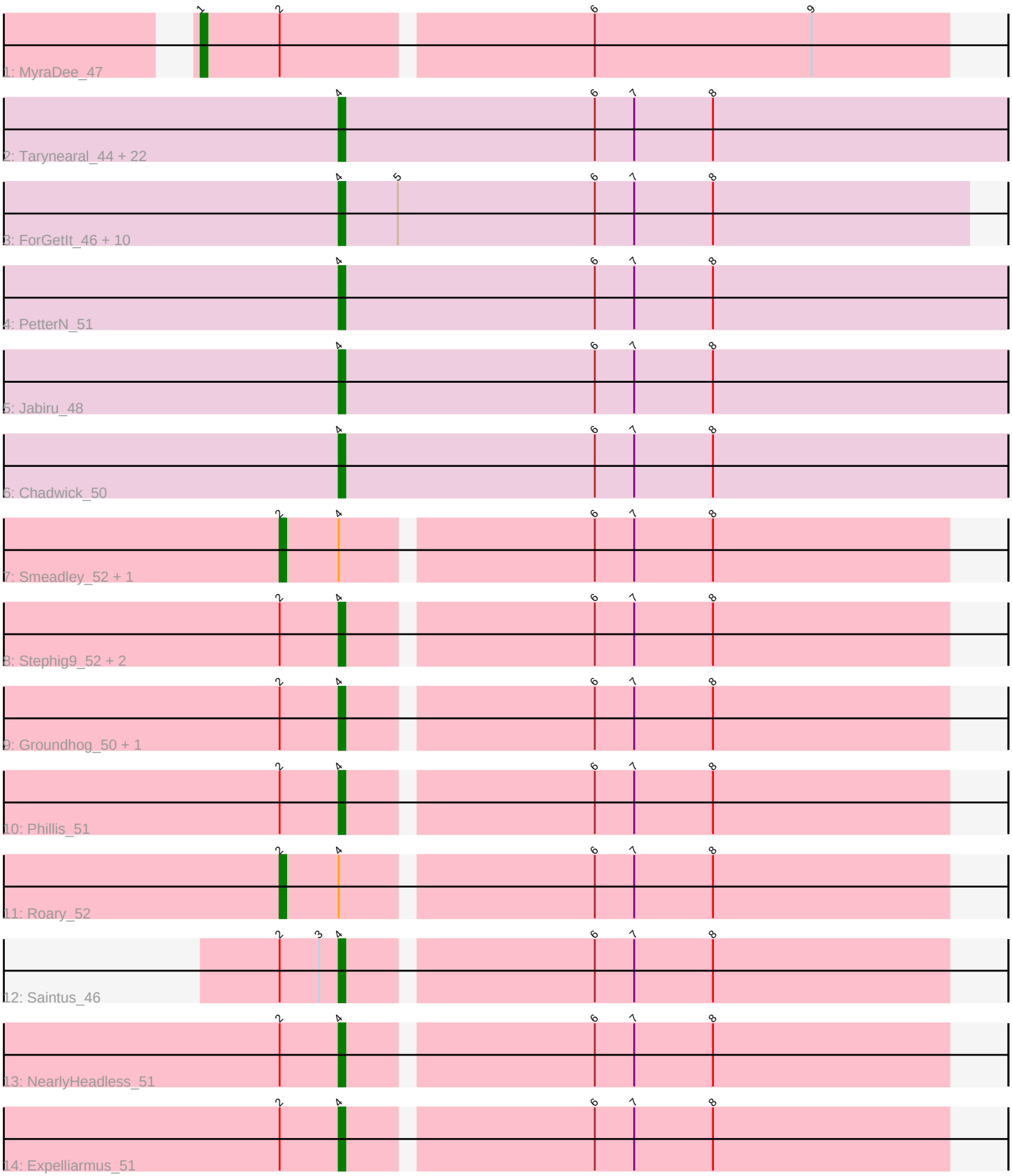
Pham 345837


1: MyraDee_47
2: Tarynearal_44 + 22
3: ForGetIt_46 + 10
4: PetterN_51
5: Jabiru_48
6: Chadwick_50
7: Smeadley_52 + 1
8: Stephig9_52 + 2
9: Groundhog_50 + 1
10: Phillis_51
11: Roary_52
12: Saintus_46
13: NearlyHeadless_51
14: Expelliarmus_51

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 345837 Report

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

Pham number 345837 has 50 members, 2 are drafts.

Phages represented in each track:
• Track 1 : MyraDee_47
• Track 2 : Tarynearal_44, Swirley_48, Bluefalcon_45, MarysWell_46, Bonamassa_46, Prinashe11_45, Benedict_50, Micasa_47, Florence4_46, Cuco_46, UnionJack_48, Milcery_46, Scorpia_51, Ghoulboy_49, ElTiger69_49, Florence1_44, LittleCherry_46, Dublin_46, Theia_45, Zolita_48, HuhtaEnerson15_46, SydNat_49, Twigg_46
• Track 3 : ForGetIt_46, Tiger_45, Aragog_45, AgentM_45, Discoknowium_44, Jovo_46, PickleBack_46, Phlorence_44, Lev2_46, Archetta_45, Conspiracy_46
• Track 4 : PetterN_51
• Track 5 : Jabiru_48
• Track 6 : Chadwick_50
• Track 7 : Smeadley_52, Caitlin_51
• Track 8 : Stephig9_52, Astro_51, Danforth_51
• Track 9 : Groundhog_50, Dixon_51
• Track 10 : Phillis_51
• Track 11 : Roary_52
• Track 12 : Saintus_46
• Track 13 : NearlyHeadless_51
• Track 14 : Expelliarmus_51

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

The start number called the most often in the published annotations is 4, it was called in 44 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AgentM_45, Aragog_45, Archetta_45, Astro_51, Benedict_50, Bluefalcon_45, Bonamassa_46, Chadwick_50, Conspiracy_46, Cuco_46, Danforth_51, Discoknowium_44, Dixon_51, Dublin_46, ElTiger69_49, Expelliarmus_51, Florence1_44, Florence4_46, ForGetIt_46, Ghoulboy_49, Groundhog_50, HuhtaEnerson15_46, Jabiru_48, Jovo_46, Lev2_46, LittleCherry_46, MarysWell_46, Micasa_47, Milcery_46, NearlyHeadless_51, PetterN_51, Phillis_51, Phlorence_44, PickleBack_46, Prinashe11_45, Saintus_46, Scorpia_51, Stephig9_52, Swirley_48, SydNat_49, Tarynearal_44, Theia_45, Tiger_45, Twigg_46, UnionJack_48, Zolita_48,

Genes that have the "Most Annotated" start but do not call it:
• Caitlin_51, Roary_52, Smeadley_52,

Genes that do not have the "Most Annotated" start:
• MyraDee_47,

Summary by start number:

Start 1:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 48
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_47 (A18),

Start 2:
• Found in 13 of 50 (26.0%) of genes in pham
• Manual Annotations of this start: 3 of 48
• Called 23.1% of time when present
• Phage (with cluster) where this start called: Caitlin_51 (A8), Roary_52 (A8), Smeadley_52 (A8),

Start 4:
• Found in 49 of 50 (98.0%) of genes in pham
• Manual Annotations of this start: 44 of 48
• Called 93.9% of time when present
• Phage (with cluster) where this start called: AgentM_45 (A5), Aragog_45 (A5), Archetta_45 (A5), Astro_51 (A8), Benedict_50 (A5), Bluefalcon_45 (A5), Bonamassa_46 (A5), Chadwick_50 (A5), Conspiracy_46 (A5), Cuco_46 (A5), Danforth_51 (A8), Discoknowium_44 (A5), Dixon_51 (A8), Dublin_46 (A5), ElTiger69_49 (A5), Expelliarmus_51 (A8), Florence1_44 (A5), Florence4_46 (A5), ForGetIt_46 (A5), Ghoulboy_49 (A5), Groundhog_50 (A8), HuhtaEnerson15_46 (A5), Jabiru_48 (A5), Jovo_46 (A5), Lev2_46 (A5), LittleCherry_46 (A5), MarysWell_46 (A5), Micasa_47 (A5), Milcery_46 (A5), NearlyHeadless_51 (A8), PetterN_51 (A5), Phillis_51 (A8), Phlorence_44 (A5), PickleBack_46 (A5), Prinashe11_45 (A5), Saintus_46 (A8), Scorpia_51 (A5), Stephig9_52 (A8), Swirley_48 (A5), SydNat_49 (A5), Tarynearal_44 (A5), Theia_45 (A5), Tiger_45 (A5), Twigg_46 (A5), UnionJack_48 (A5), Zolita_48 (A5),

Summary by clusters:

There are 3 clusters represented in this pham: A8, A5, A18,

Info for manual annotations of cluster A18:
•Start number 1 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A5:
•Start number 4 was manually annotated 35 times for cluster A5.

Info for manual annotations of cluster A8:
•Start number 2 was manually annotated 3 times for cluster A8.
•Start number 4 was manually annotated 9 times for cluster A8.

Gene Information:

Gene: AgentM_45 Start: 34651, Stop: 34556, Start Num: 4
Candidate Starts for AgentM_45:
(Start: 4 @34651 has 44 MA's), (5, 34642), (6, 34612), (7, 34606), (8, 34594),

Gene: Aragog_45 Start: 34671, Stop: 34576, Start Num: 4
Candidate Starts for Aragog_45:
(Start: 4 @34671 has 44 MA's), (5, 34662), (6, 34632), (7, 34626), (8, 34614),

Gene: Archetta_45 Start: 35081, Stop: 34980, Start Num: 4
Candidate Starts for Archetta_45:
(Start: 4 @35081 has 44 MA's), (5, 35072), (6, 35042), (7, 35036), (8, 35024),

Gene: Astro_51 Start: 34575, Stop: 34486, Start Num: 4
Candidate Starts for Astro_51:
(Start: 2 @34584 has 3 MA's), (Start: 4 @34575 has 44 MA's), (6, 34539), (7, 34533), (8, 34521),

Gene: Benedict_50 Start: 35040, Stop: 34939, Start Num: 4
Candidate Starts for Benedict_50:
(Start: 4 @35040 has 44 MA's), (6, 35001), (7, 34995), (8, 34983),

Gene: Bluefalcon_45 Start: 35226, Stop: 35125, Start Num: 4
Candidate Starts for Bluefalcon_45:
(Start: 4 @35226 has 44 MA's), (6, 35187), (7, 35181), (8, 35169),

Gene: Bonamassa_46 Start: 35070, Stop: 34969, Start Num: 4
Candidate Starts for Bonamassa_46:
(Start: 4 @35070 has 44 MA's), (6, 35031), (7, 35025), (8, 35013),

Gene: Caitlin_51 Start: 34577, Stop: 34479, Start Num: 2
Candidate Starts for Caitlin_51:
(Start: 2 @34577 has 3 MA's), (Start: 4 @34568 has 44 MA's), (6, 34532), (7, 34526), (8, 34514),

Gene: Chadwick_50 Start: 34851, Stop: 34750, Start Num: 4
Candidate Starts for Chadwick_50:
(Start: 4 @34851 has 44 MA's), (6, 34812), (7, 34806), (8, 34794),

Gene: Conspiracy_46 Start: 34893, Stop: 34798, Start Num: 4
Candidate Starts for Conspiracy_46:
(Start: 4 @34893 has 44 MA's), (5, 34884), (6, 34854), (7, 34848), (8, 34836),

Gene: Cuco_46 Start: 34926, Stop: 34825, Start Num: 4
Candidate Starts for Cuco_46:
(Start: 4 @34926 has 44 MA's), (6, 34887), (7, 34881), (8, 34869),

Gene: Danforth_51 Start: 34604, Stop: 34515, Start Num: 4
Candidate Starts for Danforth_51:
(Start: 2 @34613 has 3 MA's), (Start: 4 @34604 has 44 MA's), (6, 34568), (7, 34562), (8, 34550),

Gene: Discoknowium_44 Start: 34560, Stop: 34459, Start Num: 4

Candidate Starts for Discoknowium_44:
(Start: 4 @34560 has 44 MA's), (5, 34551), (6, 34521), (7, 34515), (8, 34503),

Gene: Dixon_51 Start: 34399, Stop: 34310, Start Num: 4
Candidate Starts for Dixon_51:
(Start: 2 @34408 has 3 MA's), (Start: 4 @34399 has 44 MA's), (6, 34363), (7, 34357), (8, 34345),

Gene: Dublin_46 Start: 35062, Stop: 34961, Start Num: 4
Candidate Starts for Dublin_46:
(Start: 4 @35062 has 44 MA's), (6, 35023), (7, 35017), (8, 35005),

Gene: ElTiger69_49 Start: 35022, Stop: 34921, Start Num: 4
Candidate Starts for ElTiger69_49:
(Start: 4 @35022 has 44 MA's), (6, 34983), (7, 34977), (8, 34965),

Gene: Expelliarmus_51 Start: 34633, Stop: 34544, Start Num: 4
Candidate Starts for Expelliarmus_51:
(Start: 2 @34642 has 3 MA's), (Start: 4 @34633 has 44 MA's), (6, 34597), (7, 34591), (8, 34579),

Gene: Florence1_44 Start: 34396, Stop: 34295, Start Num: 4
Candidate Starts for Florence1_44:
(Start: 4 @34396 has 44 MA's), (6, 34357), (7, 34351), (8, 34339),

Gene: Florence4_46 Start: 34396, Stop: 34295, Start Num: 4
Candidate Starts for Florence4_46:
(Start: 4 @34396 has 44 MA's), (6, 34357), (7, 34351), (8, 34339),

Gene: ForGetIt_46 Start: 34918, Stop: 34823, Start Num: 4
Candidate Starts for ForGetIt_46:
(Start: 4 @34918 has 44 MA's), (5, 34909), (6, 34879), (7, 34873), (8, 34861),

Gene: Ghoulboy_49 Start: 35797, Stop: 35696, Start Num: 4
Candidate Starts for Ghoulboy_49:
(Start: 4 @35797 has 44 MA's), (6, 35758), (7, 35752), (8, 35740),

Gene: Groundhog_50 Start: 34531, Stop: 34442, Start Num: 4
Candidate Starts for Groundhog_50:
(Start: 2 @34540 has 3 MA's), (Start: 4 @34531 has 44 MA's), (6, 34495), (7, 34489), (8, 34477),

Gene: HuhtaEnerson15_46 Start: 34964, Stop: 34863, Start Num: 4
Candidate Starts for HuhtaEnerson15_46:
(Start: 4 @34964 has 44 MA's), (6, 34925), (7, 34919), (8, 34907),

Gene: Jabiru_48 Start: 34895, Stop: 34794, Start Num: 4
Candidate Starts for Jabiru_48:
(Start: 4 @34895 has 44 MA's), (6, 34856), (7, 34850), (8, 34838),

Gene: Jovo_46 Start: 35174, Stop: 35079, Start Num: 4
Candidate Starts for Jovo_46:
(Start: 4 @35174 has 44 MA's), (5, 35165), (6, 35135), (7, 35129), (8, 35117),

Gene: Lev2_46 Start: 34806, Stop: 34711, Start Num: 4
Candidate Starts for Lev2_46:

(Start: 4 @34806 has 44 MA's), (5, 34797), (6, 34767), (7, 34761), (8, 34749),

Gene: LittleCherry_46 Start: 34984, Stop: 34883, Start Num: 4
Candidate Starts for LittleCherry_46:
(Start: 4 @34984 has 44 MA's), (6, 34945), (7, 34939), (8, 34927),

Gene: MarysWell_46 Start: 35305, Stop: 35204, Start Num: 4
Candidate Starts for MarysWell_46:
(Start: 4 @35305 has 44 MA's), (6, 35266), (7, 35260), (8, 35248),

Gene: Micasa_47 Start: 35152, Stop: 35051, Start Num: 4
Candidate Starts for Micasa_47:
(Start: 4 @35152 has 44 MA's), (6, 35113), (7, 35107), (8, 35095),

Gene: Milcery_46 Start: 34941, Stop: 34840, Start Num: 4
Candidate Starts for Milcery_46:
(Start: 4 @34941 has 44 MA's), (6, 34902), (7, 34896), (8, 34884),

Gene: MyraDee_47 Start: 32494, Stop: 32384, Start Num: 1
Candidate Starts for MyraDee_47:
(Start: 1 @32494 has 1 MA's), (Start: 2 @32482 has 3 MA's), (6, 32437), (9, 32404),

Gene: NearlyHeadless_51 Start: 34370, Stop: 34281, Start Num: 4
Candidate Starts for NearlyHeadless_51:
(Start: 2 @34379 has 3 MA's), (Start: 4 @34370 has 44 MA's), (6, 34334), (7, 34328), (8, 34316),

Gene: PetterN_51 Start: 35019, Stop: 34918, Start Num: 4
Candidate Starts for PetterN_51:
(Start: 4 @35019 has 44 MA's), (6, 34980), (7, 34974), (8, 34962),

Gene: Phillis_51 Start: 34572, Stop: 34483, Start Num: 4
Candidate Starts for Phillis_51:
(Start: 2 @34581 has 3 MA's), (Start: 4 @34572 has 44 MA's), (6, 34536), (7, 34530), (8, 34518),

Gene: Phlorence_44 Start: 34551, Stop: 34450, Start Num: 4
Candidate Starts for Phlorence_44:
(Start: 4 @34551 has 44 MA's), (5, 34542), (6, 34512), (7, 34506), (8, 34494),

Gene: PickleBack_46 Start: 34798, Stop: 34703, Start Num: 4
Candidate Starts for PickleBack_46:
(Start: 4 @34798 has 44 MA's), (5, 34789), (6, 34759), (7, 34753), (8, 34741),

Gene: Prinashe11_45 Start: 34843, Stop: 34742, Start Num: 4
Candidate Starts for Prinashe11_45:
(Start: 4 @34843 has 44 MA's), (6, 34804), (7, 34798), (8, 34786),

Gene: Roary_52 Start: 34598, Stop: 34500, Start Num: 2
Candidate Starts for Roary_52:
(Start: 2 @34598 has 3 MA's), (Start: 4 @34589 has 44 MA's), (6, 34553), (7, 34547), (8, 34535),

Gene: Saintus_46 Start: 31305, Stop: 31216, Start Num: 4
Candidate Starts for Saintus_46:

(Start: 2 @31314 has 3 MA's), (3, 31308), (Start: 4 @31305 has 44 MA's), (6, 31269), (7, 31263), (8, 31251),

Gene: Scorpia_51 Start: 35105, Stop: 35004, Start Num: 4
Candidate Starts for Scorpia_51:
(Start: 4 @35105 has 44 MA's), (6, 35066), (7, 35060), (8, 35048),

Gene: Smeadley_52 Start: 34764, Stop: 34666, Start Num: 2
Candidate Starts for Smeadley_52:
(Start: 2 @34764 has 3 MA's), (Start: 4 @34755 has 44 MA's), (6, 34719), (7, 34713), (8, 34701),

Gene: Stephig9_52 Start: 34821, Stop: 34732, Start Num: 4
Candidate Starts for Stephig9_52:
(Start: 2 @34830 has 3 MA's), (Start: 4 @34821 has 44 MA's), (6, 34785), (7, 34779), (8, 34767),

Gene: Swirley_48 Start: 35284, Stop: 35183, Start Num: 4
Candidate Starts for Swirley_48:
(Start: 4 @35284 has 44 MA's), (6, 35245), (7, 35239), (8, 35227),

Gene: SydNat_49 Start: 35806, Stop: 35705, Start Num: 4
Candidate Starts for SydNat_49:
(Start: 4 @35806 has 44 MA's), (6, 35767), (7, 35761), (8, 35749),

Gene: Tarynearal_44 Start: 34726, Stop: 34625, Start Num: 4
Candidate Starts for Tarynearal_44:
(Start: 4 @34726 has 44 MA's), (6, 34687), (7, 34681), (8, 34669),

Gene: Theia_45 Start: 35283, Stop: 35182, Start Num: 4
Candidate Starts for Theia_45:
(Start: 4 @35283 has 44 MA's), (6, 35244), (7, 35238), (8, 35226),

Gene: Tiger_45 Start: 34472, Stop: 34377, Start Num: 4
Candidate Starts for Tiger_45:
(Start: 4 @34472 has 44 MA's), (5, 34463), (6, 34433), (7, 34427), (8, 34415),

Gene: Twigg_46 Start: 34923, Stop: 34822, Start Num: 4
Candidate Starts for Twigg_46:
(Start: 4 @34923 has 44 MA's), (6, 34884), (7, 34878), (8, 34866),

Gene: UnionJack_48 Start: 34595, Stop: 34494, Start Num: 4
Candidate Starts for UnionJack_48:
(Start: 4 @34595 has 44 MA's), (6, 34556), (7, 34550), (8, 34538),

Gene: Zolita_48 Start: 35810, Stop: 35709, Start Num: 4
Candidate Starts for Zolita_48:
(Start: 4 @35810 has 44 MA's), (6, 35771), (7, 35765), (8, 35753),