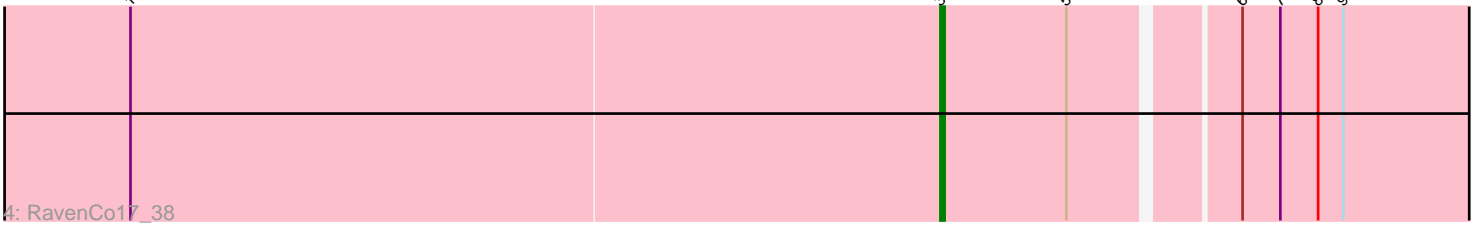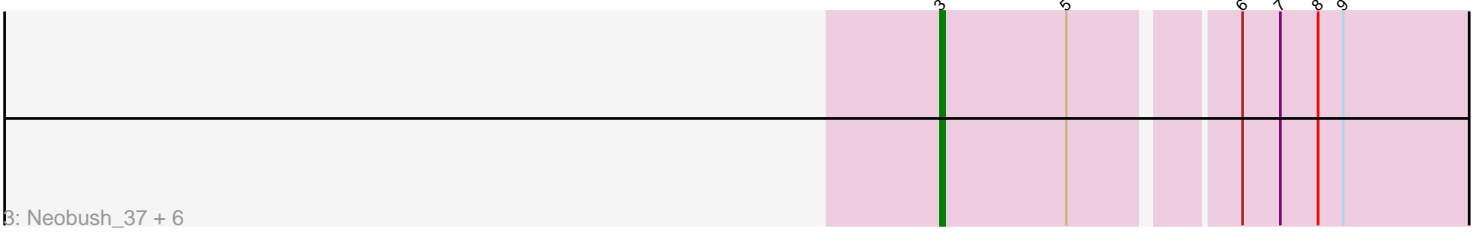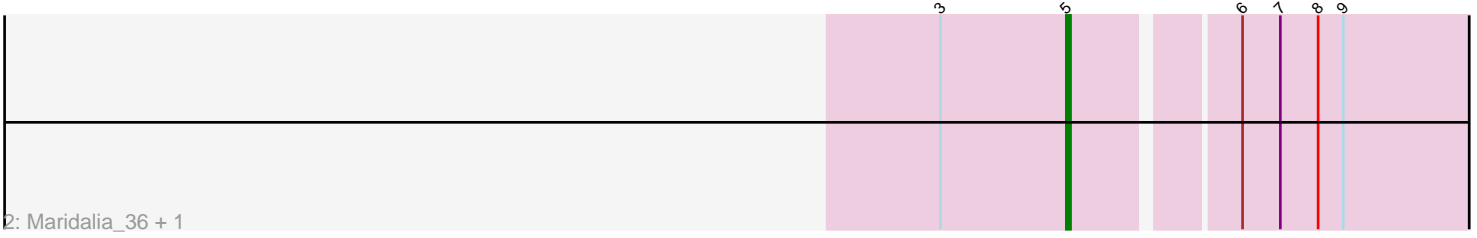# Pham 162298

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 162298 Report

This analysis was run 05/04/24 on database version 560.

Pham number 162298 has 13 members, 0 are drafts.

Phages represented in each track:
• Track 1 : BeeGee_40
• Track 2 : Maridalia_36, Eudoria_37
• Track 3 : Neobush_37, Antonio_37, Manasvini_37, Kita_38, Tayonia_37, Suscepit_37, Trumpet_37
• Track 4 : RavenCo17_38
• Track 5 : RayTheFireFly_40
• Track 6 : Ecliptus_42

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

The start number called the most often in the published annotations is 3, it was called in 8 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Antonio_37, Kita_38, Manasvini_37, Neobush_37, RavenCo17_38, Suscepit_37, Tayonia_37, Trumpet_37,

Genes that have the "Most Annotated" start but do not call it:
• Eudoria_37, Maridalia_36, RayTheFireFly_40,

Genes that do not have the "Most Annotated" start:
• BeeGee_40, Ecliptus_42,

Summary by start number:

Start 3:
• Found in 11 of 13 (84.6%) of genes in pham
• Manual Annotations of this start: 8 of 13
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Antonio_37 (CZ1), Kita_38 (CZ1), Manasvini_37 (CZ1), Neobush_37 (CZ1), RavenCo17_38 (CZ8), Suscepit_37 (CZ1), Tayonia_37 (CZ1), Trumpet_37 (CZ1),

Start 4:

• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BeeGee_40 (CY),

Start 5:
• Found in 12 of 13 (92.3%) of genes in pham
• Manual Annotations of this start: 4 of 13
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Ecliptus_42 (DN), Eudoria_37 (CZ1), Maridalia_36 (CZ1), RayTheFireFly_40 (DB),

Summary by clusters:

There are 5 clusters represented in this pham: DN, CZ8, CZ1, DB, CY,

Info for manual annotations of cluster CY:
•Start number 4 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ1:
•Start number 3 was manually annotated 7 times for cluster CZ1.
•Start number 5 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ8:
•Start number 3 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:
•Start number 5 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DN:
•Start number 5 was manually annotated 1 time for cluster DN.

Gene Information:

Gene: Antonio_37 Start: 29756, Stop: 29586, Start Num: 3
Candidate Starts for Antonio_37:
(Start: 3 @29756 has 8 MA's), (Start: 5 @29726 has 4 MA's), (6, 29690), (7, 29681), (8, 29672), (9, 29666),

Gene: BeeGee_40 Start: 30676, Stop: 30536, Start Num: 4
Candidate Starts for BeeGee_40:
(Start: 4 @30676 has 1 MA's), (6, 30640), (7, 30631), (8, 30622), (9, 30616),

Gene: Ecliptus_42 Start: 31367, Stop: 31227, Start Num: 5
Candidate Starts for Ecliptus_42:
(Start: 5 @31367 has 4 MA's), (6, 31325), (7, 31316), (8, 31307),

Gene: Eudoria_37 Start: 29726, Stop: 29586, Start Num: 5
Candidate Starts for Eudoria_37:
(Start: 3 @29756 has 8 MA's), (Start: 5 @29726 has 4 MA's), (6, 29690), (7, 29681), (8, 29672), (9, 29666),

Gene: Kita_38 Start: 29765, Stop: 29595, Start Num: 3
Candidate Starts for Kita_38:
(Start: 3 @29765 has 8 MA's), (Start: 5 @29735 has 4 MA's), (6, 29699), (7, 29690), (8, 29681), (9, 29675),

Gene: Manasvini_37 Start: 29757, Stop: 29587, Start Num: 3
Candidate Starts for Manasvini_37:
(Start: 3 @29757 has 8 MA's), (Start: 5 @29727 has 4 MA's), (6, 29691), (7, 29682), (8, 29673), (9, 29667),

Gene: Maridalia_36 Start: 29726, Stop: 29586, Start Num: 5
Candidate Starts for Maridalia_36:
(Start: 3 @29756 has 8 MA's), (Start: 5 @29726 has 4 MA's), (6, 29690), (7, 29681), (8, 29672), (9, 29666),

Gene: Neobush_37 Start: 29750, Stop: 29586, Start Num: 3
Candidate Starts for Neobush_37:
(Start: 3 @29750 has 8 MA's), (Start: 5 @29720 has 4 MA's), (6, 29684), (7, 29675), (8, 29666), (9, 29660),

Gene: RavenCo17_38 Start: 30576, Stop: 30412, Start Num: 3
Candidate Starts for RavenCo17_38:
(1, 30768), (Start: 3 @30576 has 8 MA's), (Start: 5 @30546 has 4 MA's), (6, 30510), (7, 30501), (8, 30492), (9, 30486),

Gene: RayTheFireFly_40 Start: 30275, Stop: 30135, Start Num: 5
Candidate Starts for RayTheFireFly_40:
(2, 30389), (Start: 3 @30305 has 8 MA's), (Start: 5 @30275 has 4 MA's), (6, 30239), (7, 30230), (8, 30221), (9, 30215),

Gene: Suscepit_37 Start: 29757, Stop: 29587, Start Num: 3
Candidate Starts for Suscepit_37:
(Start: 3 @29757 has 8 MA's), (Start: 5 @29727 has 4 MA's), (6, 29691), (7, 29682), (8, 29673), (9, 29667),

Gene: Tayonia_37 Start: 29756, Stop: 29586, Start Num: 3
Candidate Starts for Tayonia_37:
(Start: 3 @29756 has 8 MA's), (Start: 5 @29726 has 4 MA's), (6, 29690), (7, 29681), (8, 29672), (9, 29666),

Gene: Trumpet_37 Start: 29757, Stop: 29587, Start Num: 3
Candidate Starts for Trumpet_37:
(Start: 3 @29757 has 8 MA's), (Start: 5 @29727 has 4 MA's), (6, 29691), (7, 29682), (8, 29673), (9, 29667),