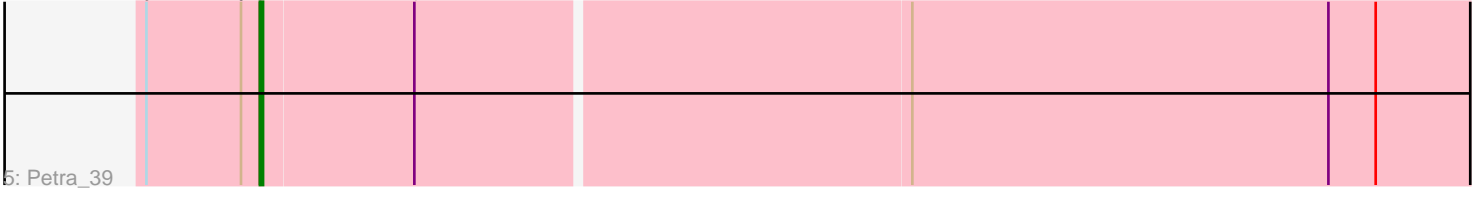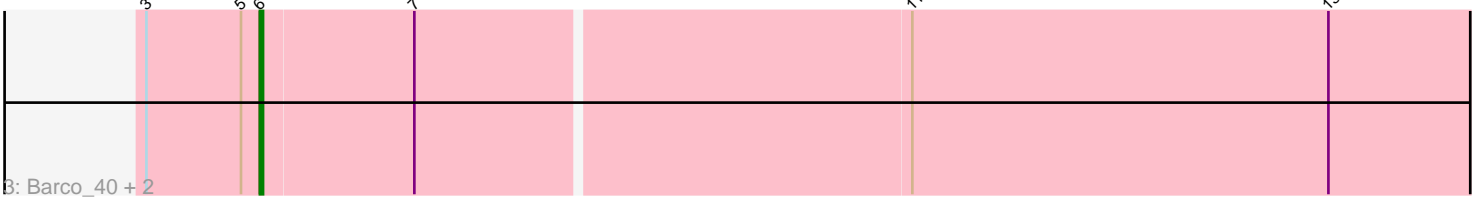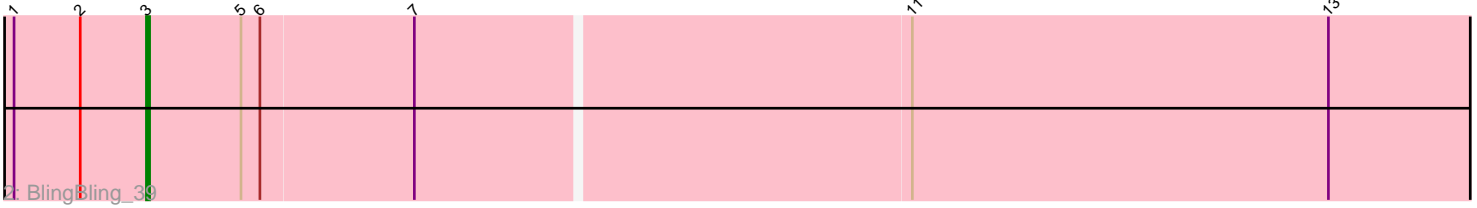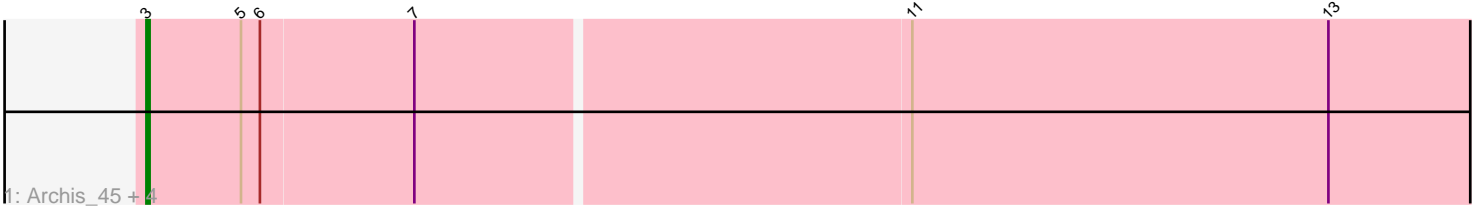# Pham 281016

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 281016 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281016 has 14 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Archis_45, MintFen_42, Zarbodnamra_41, Delian_45, CaptainKirk2_42
• Track 2 : BlingBling_39
• Track 3 : Barco_40, Melba_41, Zilla_41
• Track 4 : Guacamole_40, JasperJr_40
• Track 5 : Petra_39
• Track 6 : Obliviate_38
• Track 7 : Hitter_43

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 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Archis_45, BlingBling_39, CaptainKirk2_42, Delian_45, MintFen_42, Obliviate_38, Zarbodnamra_41,

Genes that have the "Most Annotated" start but do not call it:
• Barco_40, Melba_41, Petra_39, Zilla_41,

Genes that do not have the "Most Annotated" start:
• Guacamole_40, Hitter_43, JasperJr_40,

Summary by start number:

Start 3:
• Found in 11 of 14 (78.6%) of genes in pham
• Manual Annotations of this start: 7 of 13
• Called 63.6% of time when present
• Phage (with cluster) where this start called: Archis_45 (CV), BlingBling_39 (CV), CaptainKirk2_42 (CV), Delian_45 (CV), MintFen_42 (CV), Obliviate_38 (CV), Zarbodnamra_41 (CV),

Start 4:

• Found in 3 of 14 (21.4%) of genes in pham
• Manual Annotations of this start: 3 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Guacamole_40 (CV), Hitter_43 (CV), JasperJr_40 (CV),

Start 6:
• Found in 11 of 14 (78.6%) of genes in pham
• Manual Annotations of this start: 3 of 13
• Called 36.4% of time when present
• Phage (with cluster) where this start called: Barco_40 (CV), Melba_41 (CV), Petra_39 (CV), Zilla_41 (CV),

Summary by clusters:

There is one cluster represented in this pham: CV

Info for manual annotations of cluster CV:
•Start number 3 was manually annotated 7 times for cluster CV.
•Start number 4 was manually annotated 3 times for cluster CV.
•Start number 6 was manually annotated 3 times for cluster CV.

Gene Information:
Gene: Archis_45 Start: 33058, Stop: 32636, Start Num: 3
Candidate Starts for Archis_45:
(Start: 3 @33058 has 7 MA's), (5, 33028), (Start: 6 @33022 has 3 MA's), (7, 32974), (11, 32821), (13, 32689),

Gene: Barco_40 Start: 32072, Stop: 31686, Start Num: 6
Candidate Starts for Barco_40:
(Start: 3 @32108 has 7 MA's), (5, 32078), (Start: 6 @32072 has 3 MA's), (7, 32024), (11, 31871), (13, 31739),

Gene: BlingBling_39 Start: 33071, Stop: 32649, Start Num: 3
Candidate Starts for BlingBling_39:
(1, 33113), (2, 33092), (Start: 3 @33071 has 7 MA's), (5, 33041), (Start: 6 @33035 has 3 MA's), (7, 32987), (11, 32834), (13, 32702),

Gene: CaptainKirk2_42 Start: 32356, Stop: 31934, Start Num: 3
Candidate Starts for CaptainKirk2_42:
(Start: 3 @32356 has 7 MA's), (5, 32326), (Start: 6 @32320 has 3 MA's), (7, 32272), (11, 32119), (13, 31987),

Gene: Delian_45 Start: 32354, Stop: 31932, Start Num: 3
Candidate Starts for Delian_45:
(Start: 3 @32354 has 7 MA's), (5, 32324), (Start: 6 @32318 has 3 MA's), (7, 32270), (11, 32117), (13, 31985),

Gene: Guacamole_40 Start: 32920, Stop: 32501, Start Num: 4
Candidate Starts for Guacamole_40:

(Start: 4 @32920 has 3 MA's), (8, 32830), (9, 32725), (10, 32695), (12, 32662), (13, 32554),

Gene: Hitter_43 Start: 32564, Stop: 32145, Start Num: 4
Candidate Starts for Hitter_43:
(Start: 4 @32564 has 3 MA's), (8, 32474), (9, 32369), (10, 32339), (13, 32198), (14, 32183),

Gene: JasperJr_40 Start: 32920, Stop: 32501, Start Num: 4
Candidate Starts for JasperJr_40:
(Start: 4 @32920 has 3 MA's), (8, 32830), (9, 32725), (10, 32695), (12, 32662), (13, 32554),

Gene: Melba_41 Start: 32860, Stop: 32474, Start Num: 6
Candidate Starts for Melba_41:
(Start: 3 @32896 has 7 MA's), (5, 32866), (Start: 6 @32860 has 3 MA's), (7, 32812), (11, 32659), (13, 32527),

Gene: MintFen_42 Start: 32970, Stop: 32548, Start Num: 3
Candidate Starts for MintFen_42:
(Start: 3 @32970 has 7 MA's), (5, 32940), (Start: 6 @32934 has 3 MA's), (7, 32886), (11, 32733), (13, 32601),

Gene: Obliviate_38 Start: 31257, Stop: 30835, Start Num: 3
Candidate Starts for Obliviate_38:
(Start: 3 @31257 has 7 MA's), (5, 31227), (Start: 6 @31221 has 3 MA's), (7, 31173), (11, 31020), (13, 30888), (14, 30873),

Gene: Petra_39 Start: 31580, Stop: 31194, Start Num: 6
Candidate Starts for Petra_39:
(Start: 3 @31616 has 7 MA's), (5, 31586), (Start: 6 @31580 has 3 MA's), (7, 31532), (11, 31379), (13, 31247), (14, 31232),

Gene: Zarbodnamra_41 Start: 32378, Stop: 31956, Start Num: 3
Candidate Starts for Zarbodnamra_41:
(Start: 3 @32378 has 7 MA's), (5, 32348), (Start: 6 @32342 has 3 MA's), (7, 32294), (11, 32141), (13, 32009),

Gene: Zilla_41 Start: 32089, Stop: 31703, Start Num: 6
Candidate Starts for Zilla_41:
(Start: 3 @32125 has 7 MA's), (5, 32095), (Start: 6 @32089 has 3 MA's), (7, 32041), (11, 31888), (13, 31756),