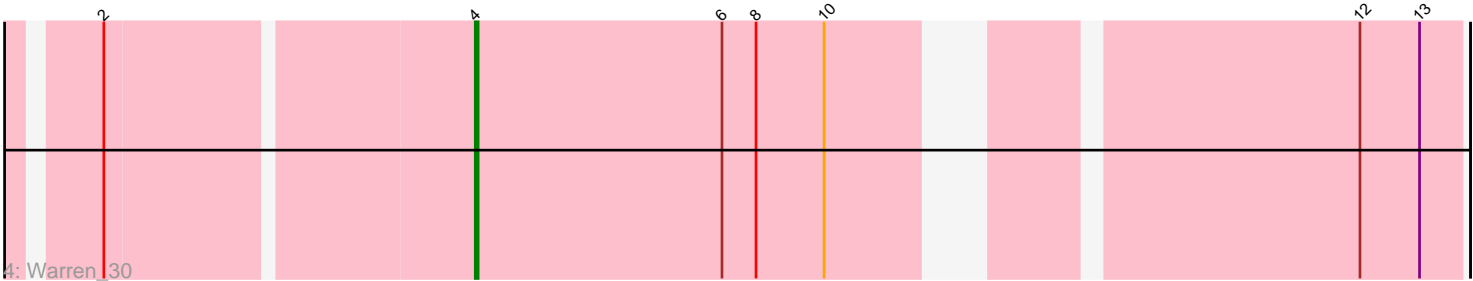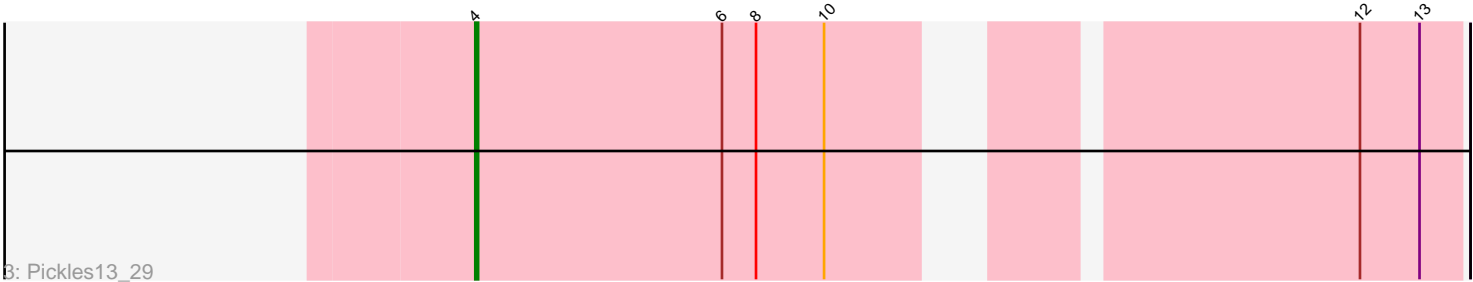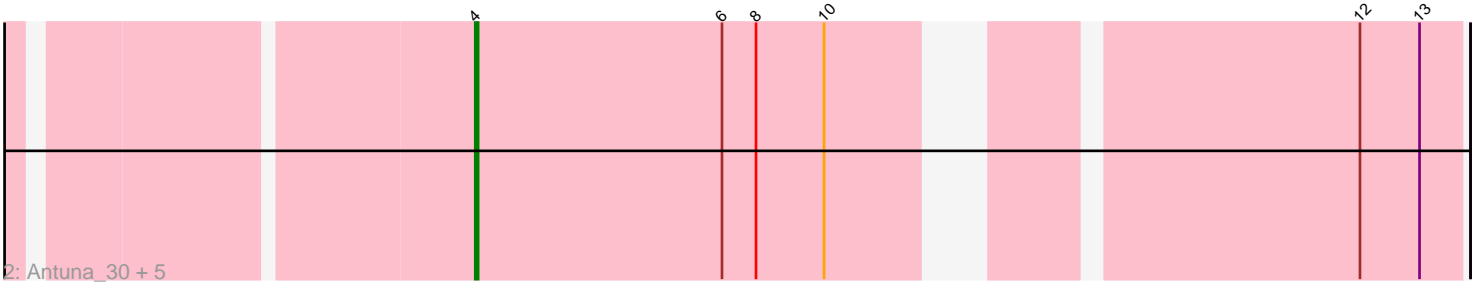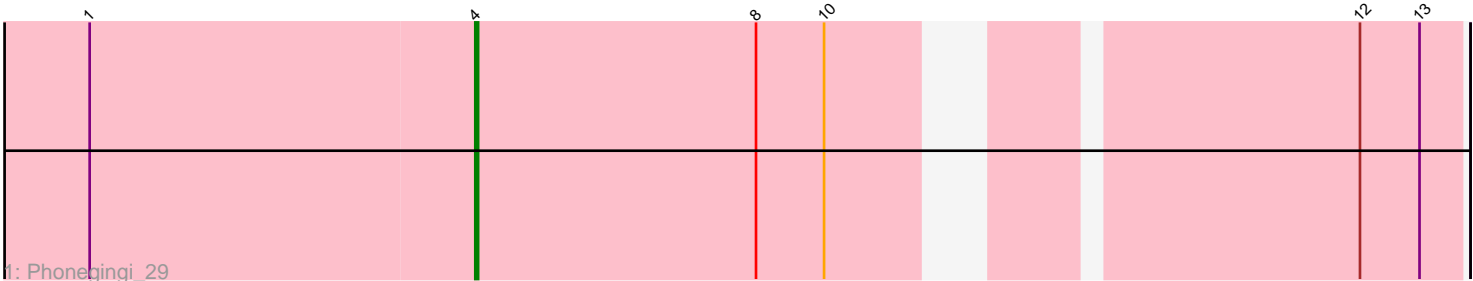# Pham 8687

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 8687 Report

This analysis was run 04/05/24 on database version 557.

Pham number 8687 has 10 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Phonegingi_29
• Track 2 : Antuna_30, Dropshot_29, Bush_31, Appa_29, Blett_30, MenE_33
• Track 3 : Pickles13_29
• Track 4 : Warren_30
• Track 5 : Isperia_28

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

Genes that call this "Most Annotated" start:
• Antuna_30, Appa_29, Blett_30, Bush_31, Dropshot_29, MenE_33, Phonegingi_29, Pickles13_29, Warren_30,

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

Genes that do not have the "Most Annotated" start:
• Isperia_28,

Summary by start number:

Start 3:
• Found in 1 of 10 (10.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Isperia_28 (GJ),

Start 4:
• Found in 9 of 10 (90.0%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Antuna_30 (GA), Appa_29 (GA), Blett_30 (GA), Bush_31 (GA), Dropshot_29 (GA), MenE_33 (GA), Phonegingi_29 (GA), Pickles13_29 (GA), Warren_30 (GA),

Summary by clusters:

There are 2 clusters represented in this pham: GJ, GA,

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

Gene Information:

Gene: Antuna_30 Start: 19573, Stop: 19887, Start Num: 4
Candidate Starts for Antuna_30:
(Start: 4 @19573 has 7 MA's), (6, 19660), (8, 19672), (10, 19696), (12, 19852), (13, 19873),

Gene: Appa_29 Start: 19438, Stop: 19752, Start Num: 4
Candidate Starts for Appa_29:
(Start: 4 @19438 has 7 MA's), (6, 19525), (8, 19537), (10, 19561), (12, 19717), (13, 19738),

Gene: Blett_30 Start: 19585, Stop: 19899, Start Num: 4
Candidate Starts for Blett_30:
(Start: 4 @19585 has 7 MA's), (6, 19672), (8, 19684), (10, 19708), (12, 19864), (13, 19885),

Gene: Bush_31 Start: 19563, Stop: 19877, Start Num: 4
Candidate Starts for Bush_31:
(Start: 4 @19563 has 7 MA's), (6, 19650), (8, 19662), (10, 19686), (12, 19842), (13, 19863),

Gene: Dropshot_29 Start: 19435, Stop: 19749, Start Num: 4
Candidate Starts for Dropshot_29:
(Start: 4 @19435 has 7 MA's), (6, 19522), (8, 19534), (10, 19558), (12, 19714), (13, 19735),

Gene: Isperia_28 Start: 19113, Stop: 19484, Start Num: 3
Candidate Starts for Isperia_28:
(3, 19113), (5, 19167), (7, 19227), (9, 19242), (10, 19257), (11, 19266), (14, 19473),

Gene: MenE_33 Start: 19703, Stop: 20017, Start Num: 4
Candidate Starts for MenE_33:
(Start: 4 @19703 has 7 MA's), (6, 19790), (8, 19802), (10, 19826), (12, 19982), (13, 20003),

Gene: Phonegingi_29 Start: 19448, Stop: 19762, Start Num: 4
Candidate Starts for Phonegingi_29:
(1, 19313), (Start: 4 @19448 has 7 MA's), (8, 19547), (10, 19571), (12, 19727), (13, 19748),

Gene: Pickles13_29 Start: 19856, Stop: 20170, Start Num: 4
Candidate Starts for Pickles13_29:
(Start: 4 @19856 has 7 MA's), (6, 19943), (8, 19955), (10, 19979), (12, 20135), (13, 20156),

Gene: Warren_30 Start: 19633, Stop: 19947, Start Num: 4

Candidate Starts for Warren_30:
(2, 19510), (Start: 4 @19633 has 7 MA's), (6, 19720), (8, 19732), (10, 19756), (12, 19912), (13, 19933),