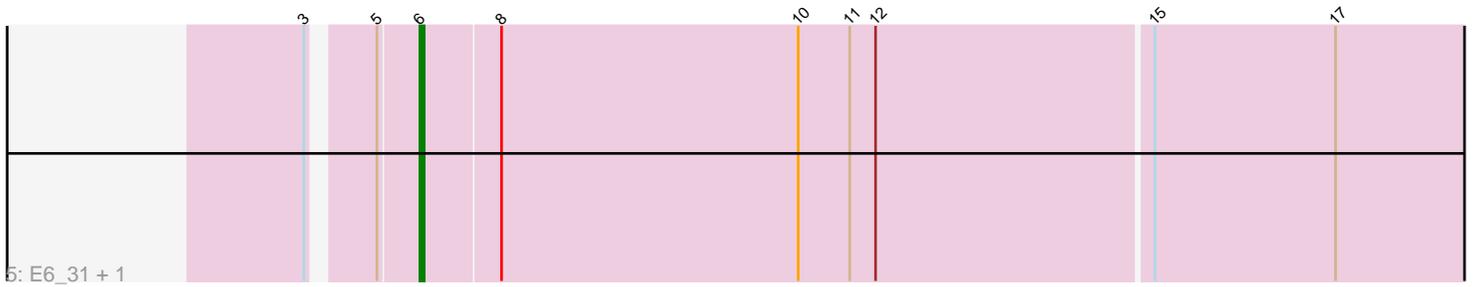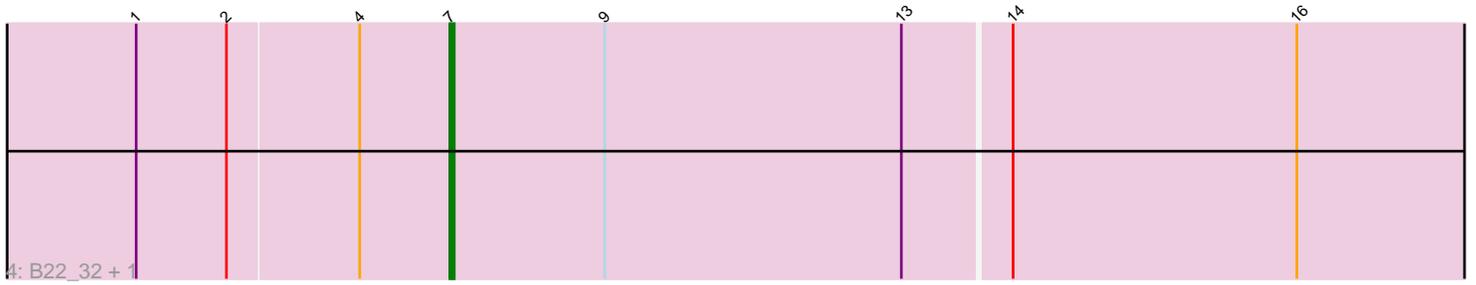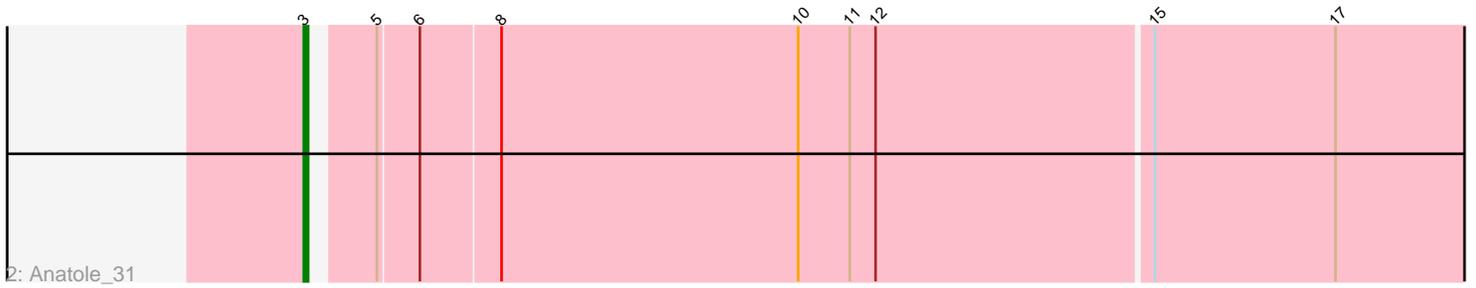# Pham 291839

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 291839 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291839 has 7 members, 0 are drafts.

Phages represented in each track:
• Track 1 : B3_31
• Track 2 : Anatole_31
• Track 3 : G4_32
• Track 4 : B22_32, Doucette_34
• Track 5 : E6_31, E1_31

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

The start number called the most often in the published annotations is 7, it was called in 2 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• B22_32, Doucette_34,

Genes that have the "Most Annotated" start but do not call it:
• B3_31, G4_32,

Genes that do not have the "Most Annotated" start:
• Anatole_31, E1_31, E6_31,

Summary by start number:

Start 3:
• Found in 3 of 7 (42.9%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Anatole_31 (BV),

Start 4:
• Found in 4 of 7 (57.1%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 25.0% of time when present
• Phage (with cluster) where this start called: B3_31 (BV),

Start 6:
• Found in 3 of 7 (42.9%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 66.7% of time when present
• Phage (with cluster) where this start called: E1_31 (BV), E6_31 (BW),

Start 7:
• Found in 4 of 7 (57.1%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 50.0% of time when present
• Phage (with cluster) where this start called: B22_32 (BW), Doucette_34 (BW),

Start 9:
• Found in 4 of 7 (57.1%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 25.0% of time when present
• Phage (with cluster) where this start called: G4_32 (BW),

Summary by clusters:

There are 2 clusters represented in this pham: BV, BW,

Info for manual annotations of cluster BV:
•Start number 3 was manually annotated 1 time for cluster BV.
•Start number 4 was manually annotated 1 time for cluster BV.
•Start number 6 was manually annotated 1 time for cluster BV.

Info for manual annotations of cluster BW:
•Start number 6 was manually annotated 1 time for cluster BW.
•Start number 7 was manually annotated 2 times for cluster BW.
•Start number 9 was manually annotated 1 time for cluster BW.

Gene Information:
Gene: Anatole_31 Start: 23401, Stop: 23664, Start Num: 3
Candidate Starts for Anatole_31:
(Start: 3 @23401 has 1 MA's), (5, 23413), (Start: 6 @23422 has 2 MA's), (8, 23440), (10, 23509), (11, 23521), (12, 23527), (15, 23590), (17, 23632),

Gene: B22_32 Start: 23397, Stop: 23636, Start Num: 7
Candidate Starts for B22_32:
(1, 23325), (2, 23346), (Start: 4 @23376 has 1 MA's), (Start: 7 @23397 has 2 MA's), (Start: 9 @23433 has 1 MA's), (13, 23502), (14, 23526), (16, 23592),

Gene: B3_31 Start: 23506, Stop: 23766, Start Num: 4
Candidate Starts for B3_31:
(Start: 4 @23506 has 1 MA's), (Start: 7 @23527 has 2 MA's), (Start: 9 @23563 has 1 MA's), (13, 23632), (14, 23656), (16, 23722),

Gene: Doucette_34 Start: 24811, Stop: 25050, Start Num: 7
Candidate Starts for Doucette_34:

(1, 24739), (2, 24760), (Start: 4 @24790 has 1 MA's), (Start: 7 @24811 has 2 MA's), (Start: 9 @24847 has 1 MA's), (13, 24916), (14, 24940), (16, 25006),

Gene: E1_31 Start: 23422, Stop: 23664, Start Num: 6
Candidate Starts for E1_31:
(Start: 3 @23401 has 1 MA's), (5, 23413), (Start: 6 @23422 has 2 MA's), (8, 23440), (10, 23509), (11, 23521), (12, 23527), (15, 23590), (17, 23632),

Gene: E6_31 Start: 23144, Stop: 23386, Start Num: 6
Candidate Starts for E6_31:
(Start: 3 @23123 has 1 MA's), (5, 23135), (Start: 6 @23144 has 2 MA's), (8, 23162), (10, 23231), (11, 23243), (12, 23249), (15, 23312), (17, 23354),

Gene: G4_32 Start: 24466, Stop: 24669, Start Num: 9
Candidate Starts for G4_32:
(Start: 4 @24409 has 1 MA's), (Start: 7 @24430 has 2 MA's), (Start: 9 @24466 has 1 MA's), (13, 24535), (14, 24559), (16, 24625),