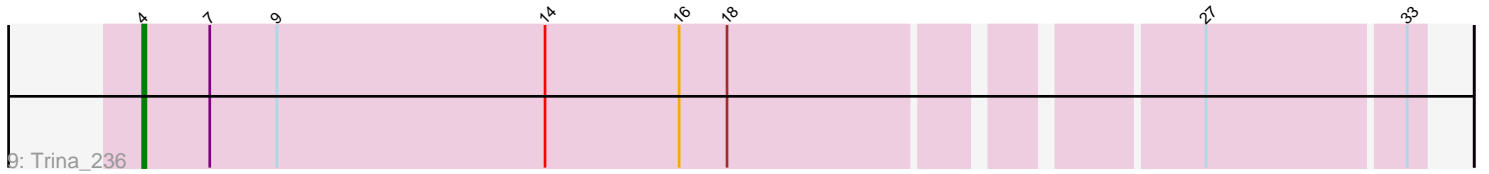
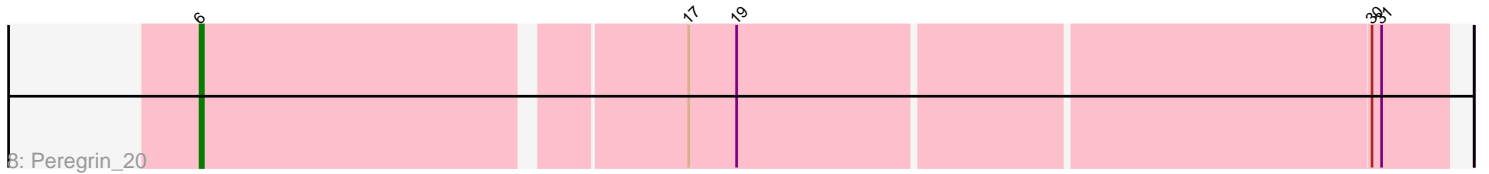
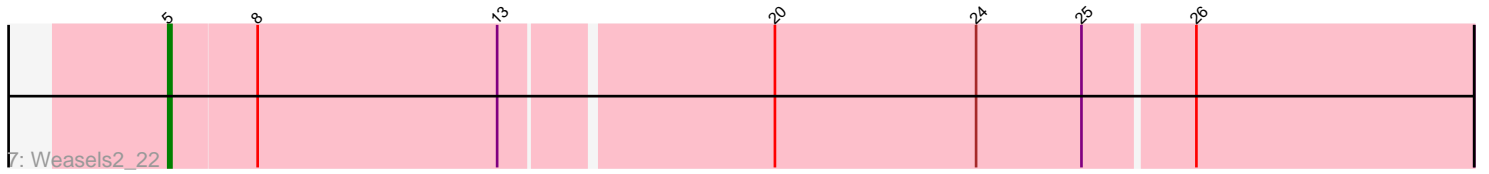
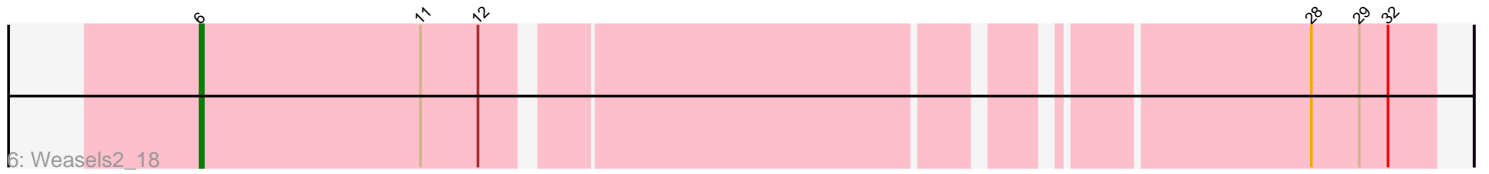
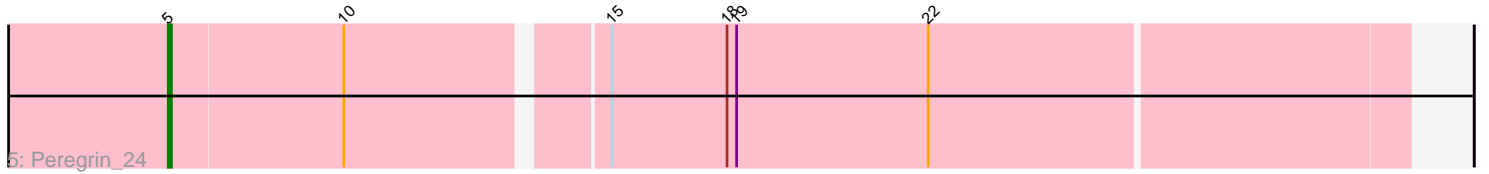
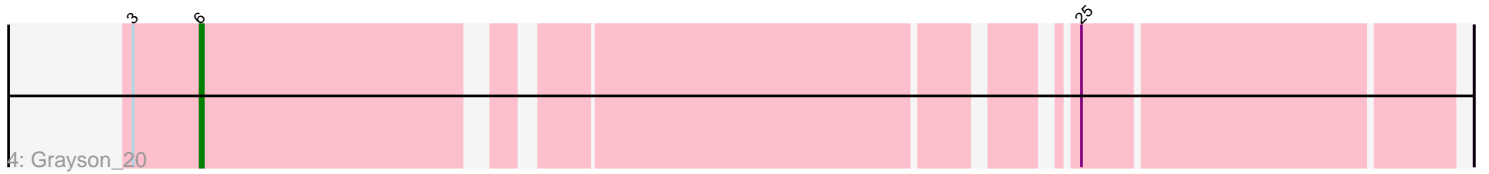
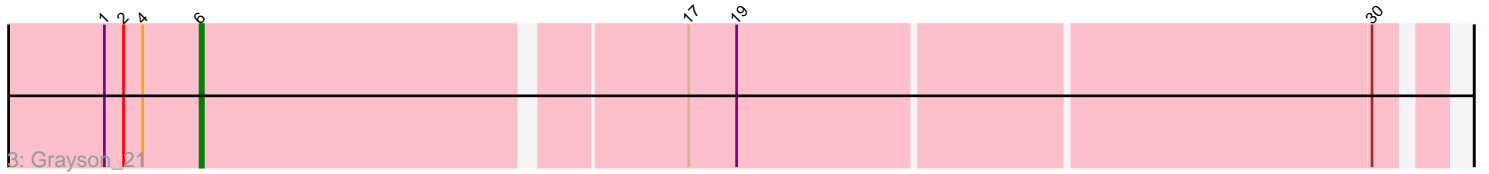
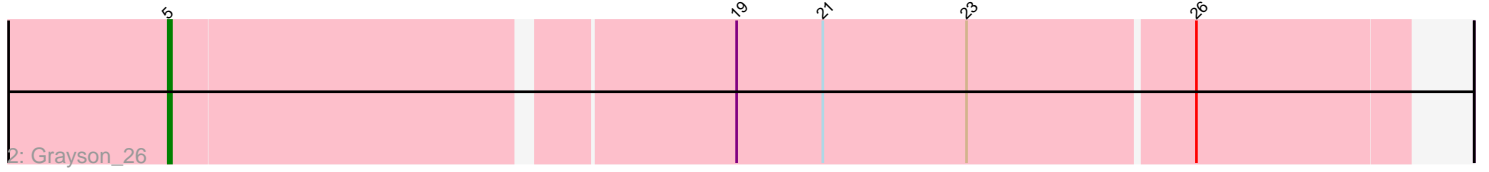
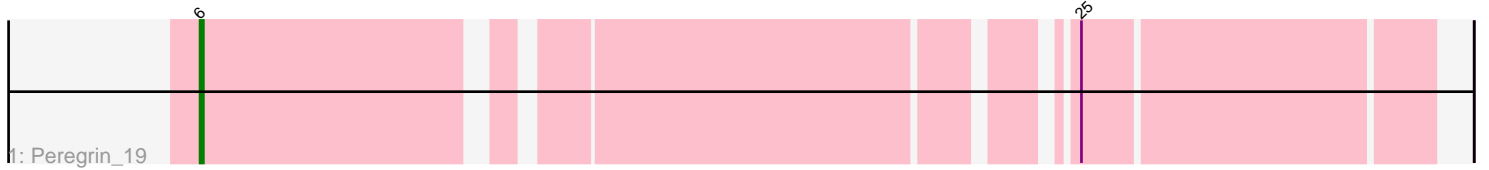


Pham 225114



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 225114 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225114 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Peregrin_19
- Track 2 : Grayson_26
- Track 3 : Grayson_21
- Track 4 : Grayson_20
- Track 5 : Peregrin_24
- Track 6 : Weasels2_18
- Track 7 : Weasels2_22
- Track 8 : Peregrin_20
- Track 9 : Trina_236

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

The start number called the most often in the published annotations is 6, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Grayson_20, Grayson_21, Peregrin_19, Peregrin_20, Weasels2_18,

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

-

Genes that do not have the "Most Annotated" start:

- Grayson_26, Peregrin_24, Trina_236, Weasels2_22,

Summary by start number:

Start 4:

- Found in 2 of 9 (22.2%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Trina_236 (CE),

Start 5:

- Found in 3 of 9 (33.3%) of genes in pham

- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_26 (CB), Peregrin_24 (CB), Weasels2_22 (CB),

Start 6:

- Found in 5 of 9 (55.6%) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_20 (CB), Grayson_21 (CB), Peregrin_19 (CB), Peregrin_20 (CB), Weasels2_18 (CB),

Summary by clusters:

There are 2 clusters represented in this pham: CB, CE,

Info for manual annotations of cluster CB:

- Start number 5 was manually annotated 3 times for cluster CB.
- Start number 6 was manually annotated 5 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 4 was manually annotated 1 time for cluster CE.

Gene Information:

Gene: Grayson_26 Start: 7449, Stop: 7075, Start Num: 5

Candidate Starts for Grayson_26:

(Start: 5 @7449 has 3 MA's), (19, 7281), (21, 7254), (23, 7209), (26, 7140),

Gene: Grayson_21 Start: 6068, Stop: 5700, Start Num: 6

Candidate Starts for Grayson_21:

(1, 6098), (2, 6092), (Start: 4 @6086 has 1 MA's), (Start: 6 @6068 has 5 MA's), (17, 5924), (19, 5909), (30, 5717),

Gene: Grayson_20 Start: 5707, Stop: 5357, Start Num: 6

Candidate Starts for Grayson_20:

(3, 5728), (Start: 6 @5707 has 5 MA's), (25, 5467),

Gene: Peregrin_19 Start: 5539, Stop: 5195, Start Num: 6

Candidate Starts for Peregrin_19:

(Start: 6 @5539 has 5 MA's), (25, 5299),

Gene: Peregrin_24 Start: 6762, Stop: 6388, Start Num: 5

Candidate Starts for Peregrin_24:

(Start: 5 @6762 has 3 MA's), (10, 6708), (15, 6633), (18, 6597), (19, 6594), (22, 6534),

Gene: Peregrin_20 Start: 5906, Stop: 5532, Start Num: 6

Candidate Starts for Peregrin_20:

(Start: 6 @5906 has 5 MA's), (17, 5762), (19, 5747), (30, 5555), (31, 5552),

Gene: Trina_236 Start: 121948, Stop: 122328, Start Num: 4

Candidate Starts for Trina_236:

(Start: 4 @121948 has 1 MA's), (7, 121969), (9, 121990), (14, 122074), (16, 122116), (18, 122131), (27, 122263), (33, 122323),

Gene: Weasels2_18 Start: 5542, Stop: 5186, Start Num: 6

Candidate Starts for Weasels2_18:

(Start: 6 @5542 has 5 MA's), (11, 5473), (12, 5455), (28, 5224), (29, 5209), (32, 5200),

Gene: Weasels2_22 Start: 6969, Stop: 6571, Start Num: 5

Candidate Starts for Weasels2_22:

(Start: 5 @6969 has 3 MA's), (8, 6942), (13, 6867), (20, 6786), (24, 6723), (25, 6690), (26, 6657),