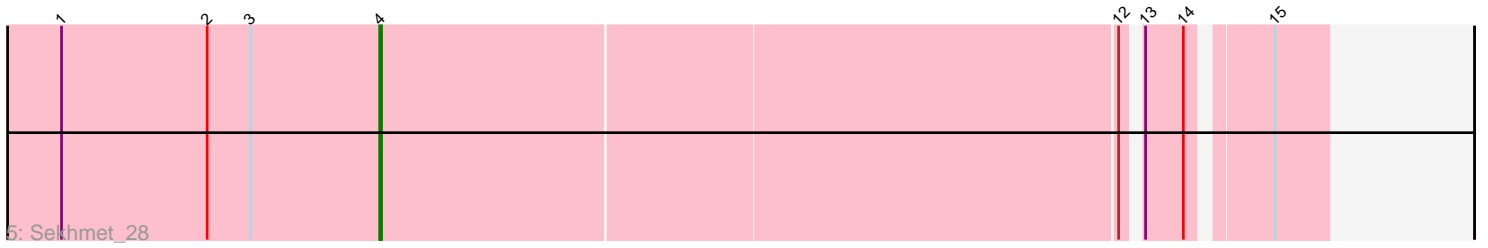
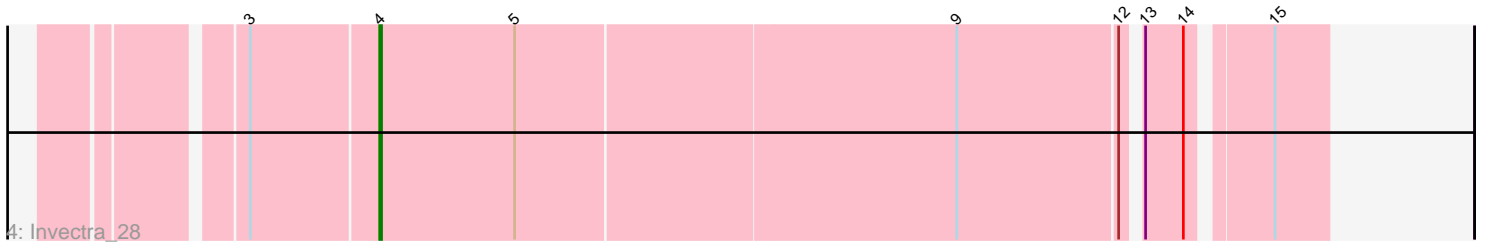
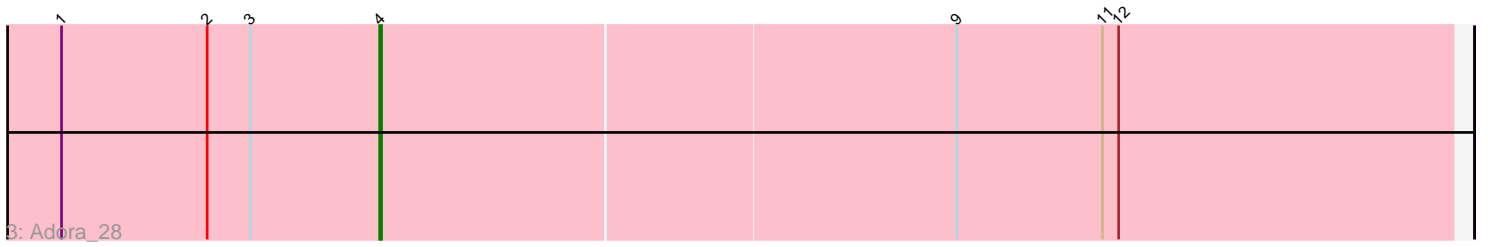
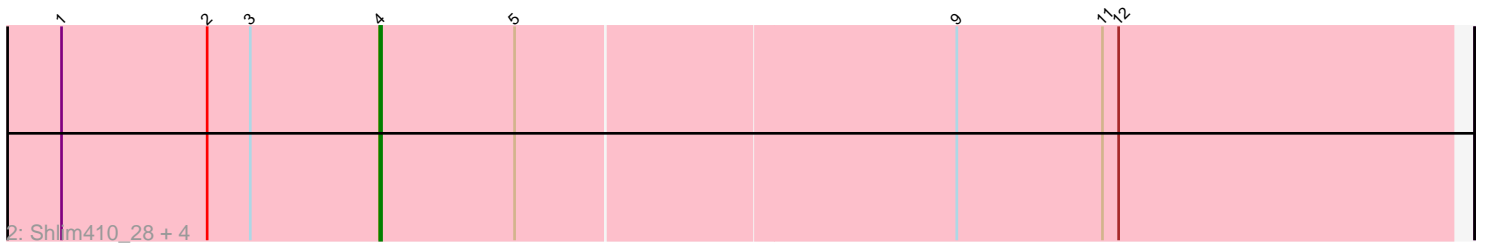
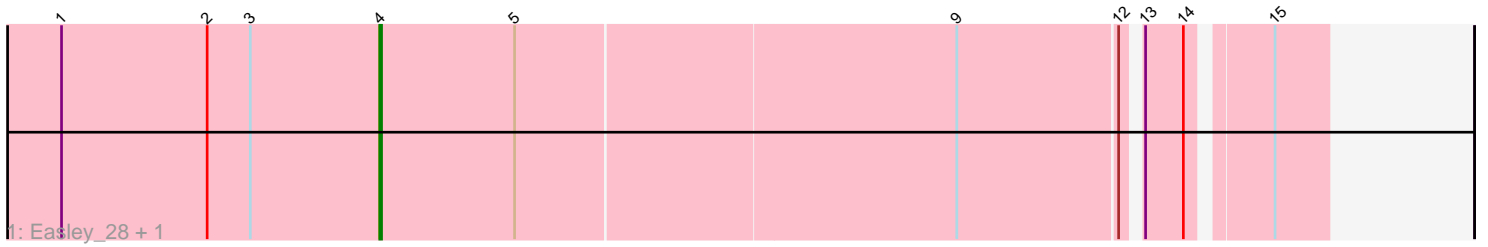


Pham 297150



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 297150 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297150 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Easley_28, WinkNick_28
- Track 2 : Shlim410_28, Twinkle_28, Hortense_28, Mcklovin_28, Howe_28
- Track 3 : Adora_28
- Track 4 : Invectra_28
- Track 5 : Sekhmet_28
- Track 6 : Gudmit_27

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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_28, Easley_28, Gudmit_27, Hortense_28, Howe_28, Invectra_28, Mcklovin_28, Sekhmet_28, Shlim410_28, Twinkle_28, WinkNick_28,

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

-

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

-

Summary by start number:

Start 4:

- Found in 11 of 11 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora_28 (CZ4), Easley_28 (CZ4), Gudmit_27 (singleton), Hortense_28 (CZ4), Howe_28 (CZ4), Invectra_28 (CZ4), Mcklovin_28 (CZ4), Sekhmet_28 (CZ4), Shlim410_28 (CZ4), Twinkle_28 (CZ4), WinkNick_28 (CZ4),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, CZ4,

Info for manual annotations of cluster CZ4:

•Start number 4 was manually annotated 10 times for cluster CZ4.

Gene Information:

Gene: Adora_28 Start: 23842, Stop: 24432, Start Num: 4

Candidate Starts for Adora_28:

(1, 23665), (2, 23746), (3, 23770), (Start: 4 @23842 has 11 MA's), (9, 24157), (11, 24238), (12, 24247),

Gene: Easley_28 Start: 23290, Stop: 23787, Start Num: 4

Candidate Starts for Easley_28:

(1, 23113), (2, 23194), (3, 23218), (Start: 4 @23290 has 11 MA's), (5, 23365), (9, 23605), (12, 23692), (13, 23698), (14, 23719), (15, 23758),

Gene: Gudmit_27 Start: 21597, Stop: 22205, Start Num: 4

Candidate Starts for Gudmit_27:

(2, 21501), (3, 21525), (Start: 4 @21597 has 11 MA's), (6, 21678), (7, 21882), (8, 21906), (10, 21969), (14, 22044), (16, 22128), (17, 22176),

Gene: Hortense_28 Start: 23889, Stop: 24479, Start Num: 4

Candidate Starts for Hortense_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 4 @23889 has 11 MA's), (5, 23964), (9, 24204), (11, 24285), (12, 24294),

Gene: Howe_28 Start: 23889, Stop: 24479, Start Num: 4

Candidate Starts for Howe_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 4 @23889 has 11 MA's), (5, 23964), (9, 24204), (11, 24285), (12, 24294),

Gene: Invectra_28 Start: 23947, Stop: 24444, Start Num: 4

Candidate Starts for Invectra_28:

(3, 23878), (Start: 4 @23947 has 11 MA's), (5, 24022), (9, 24262), (12, 24349), (13, 24355), (14, 24376), (15, 24415),

Gene: Mcklovin_28 Start: 26058, Stop: 26648, Start Num: 4

Candidate Starts for Mcklovin_28:

(1, 25881), (2, 25962), (3, 25986), (Start: 4 @26058 has 11 MA's), (5, 26133), (9, 26373), (11, 26454), (12, 26463),

Gene: Sekhmet_28 Start: 23658, Stop: 24155, Start Num: 4

Candidate Starts for Sekhmet_28:

(1, 23481), (2, 23562), (3, 23586), (Start: 4 @23658 has 11 MA's), (12, 24060), (13, 24066), (14, 24087), (15, 24126),

Gene: Shlim410_28 Start: 23889, Stop: 24479, Start Num: 4

Candidate Starts for Shlim410_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 4 @23889 has 11 MA's), (5, 23964), (9, 24204), (11, 24285), (12, 24294),

Gene: Twinkle_28 Start: 24948, Stop: 25538, Start Num: 4

Candidate Starts for Twinkle_28:

(1, 24771), (2, 24852), (3, 24876), (Start: 4 @24948 has 11 MA's), (5, 25023), (9, 25263), (11, 25344), (12, 25353),

Gene: WinkNick_28 Start: 23280, Stop: 23777, Start Num: 4

Candidate Starts for WinkNick_28:

(1, 23103), (2, 23184), (3, 23208), (Start: 4 @23280 has 11 MA's), (5, 23355), (9, 23595), (12, 23682), (13, 23688), (14, 23709), (15, 23748),