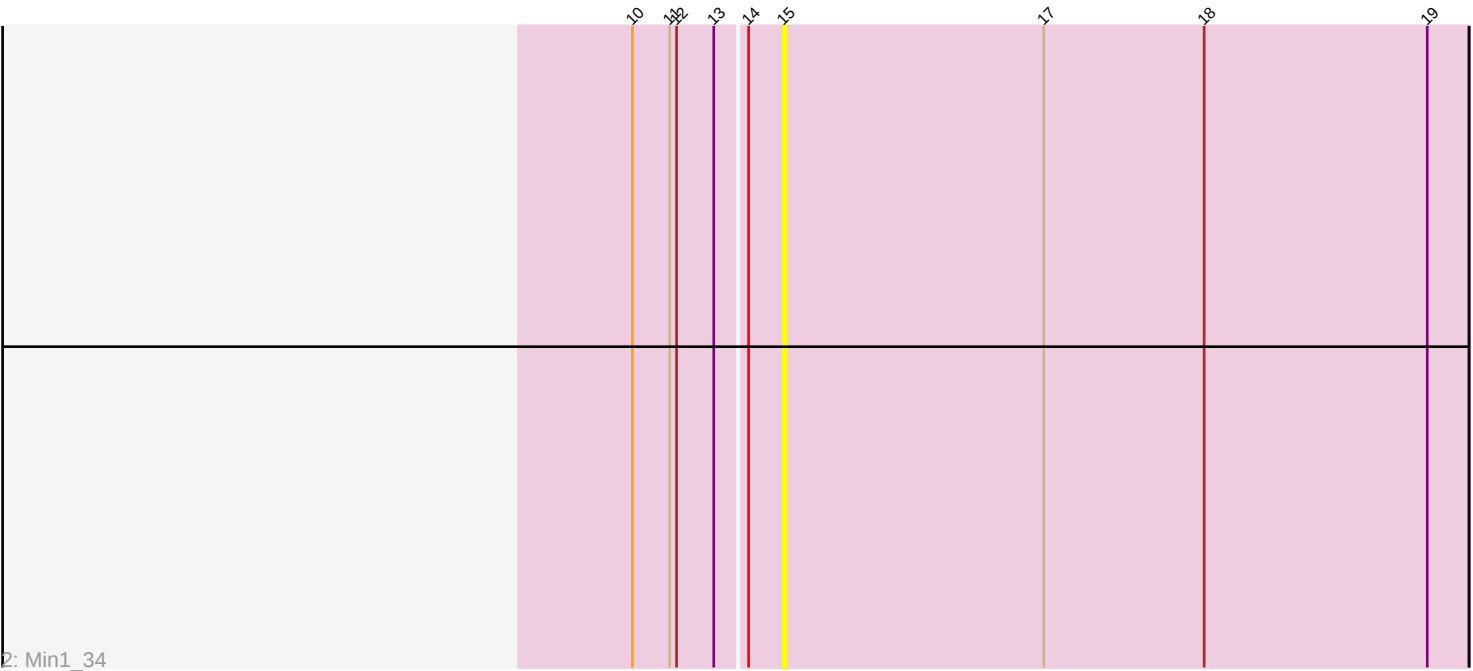
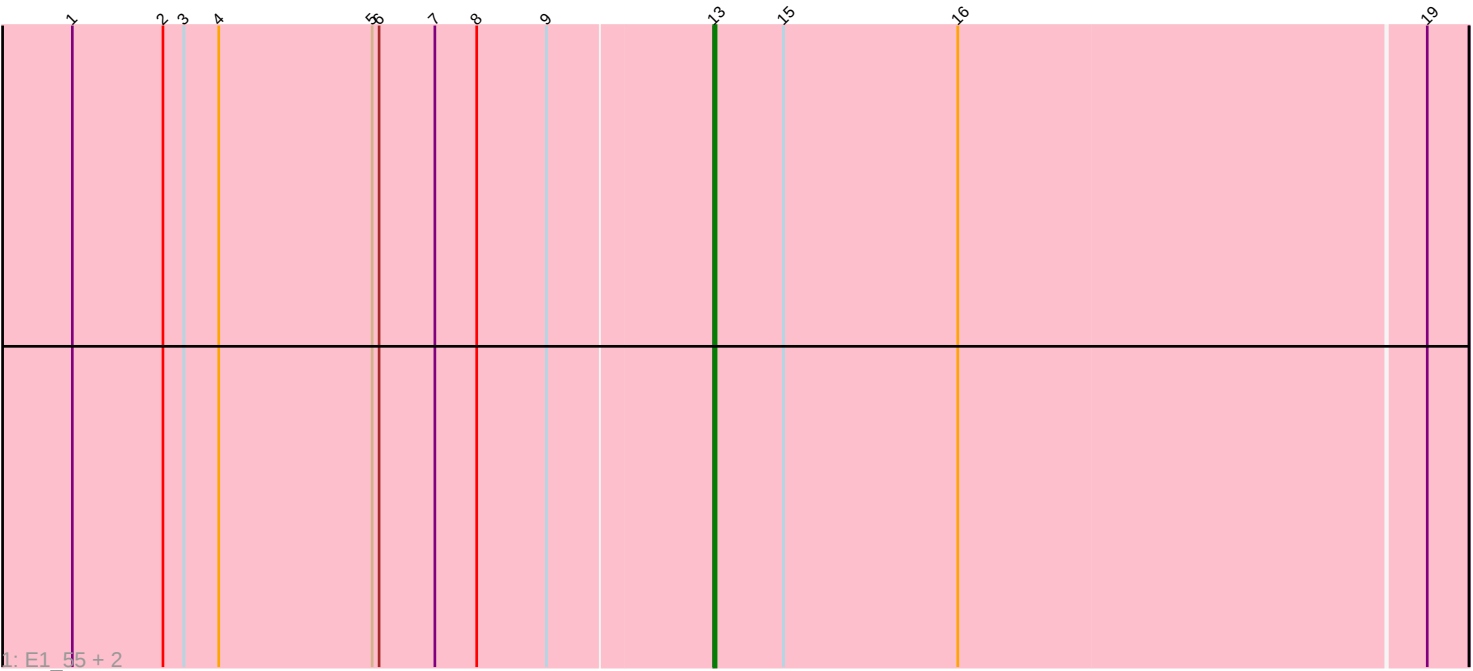




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 281399 Report

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

Pham number 281399 has 4 members, 1 are drafts.

Phages represented in each track:

- Track 1 : E1_55, B3_57, Anatole_55
- Track 2 : Min1_34

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

The start number called the most often in the published annotations is 13, it was called in 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anatole_55, B3_57, E1_55,

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

- Min1_34,

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

•

Summary by start number:

Start 13:

- Found in 4 of 4 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 3
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Anatole_55 (BV), B3_57 (BV), E1_55 (BV),

Start 15:

- Found in 4 of 4 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Min1_34 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster BV:

•Start number 13 was manually annotated 3 times for cluster BV.

Gene Information:

Gene: Anatole_55 Start: 34869, Stop: 35189, Start Num: 13

Candidate Starts for Anatole_55:

(1, 34596), (2, 34635), (3, 34644), (4, 34659), (5, 34725), (6, 34728), (7, 34752), (8, 34770), (9, 34800),
(Start: 13 @34869 has 3 MA's), (15, 34899), (16, 34974), (19, 35172),

Gene: B3_57 Start: 35532, Stop: 35852, Start Num: 13

Candidate Starts for B3_57:

(1, 35259), (2, 35298), (3, 35307), (4, 35322), (5, 35388), (6, 35391), (7, 35415), (8, 35433), (9, 35463),
(Start: 13 @35532 has 3 MA's), (15, 35562), (16, 35637), (19, 35835),

Gene: E1_55 Start: 34794, Stop: 35114, Start Num: 13

Candidate Starts for E1_55:

(1, 34521), (2, 34560), (3, 34569), (4, 34584), (5, 34650), (6, 34653), (7, 34677), (8, 34695), (9, 34725),
(Start: 13 @34794 has 3 MA's), (15, 34824), (16, 34899), (19, 35097),

Gene: Min1_34 Start: 16506, Stop: 16799, Start Num: 15

Candidate Starts for Min1_34:

(10, 16446), (11, 16461), (12, 16464), (Start: 13 @16479 has 3 MA's), (14, 16491), (15, 16506), (17, 16617), (18, 16686), (19, 16782),