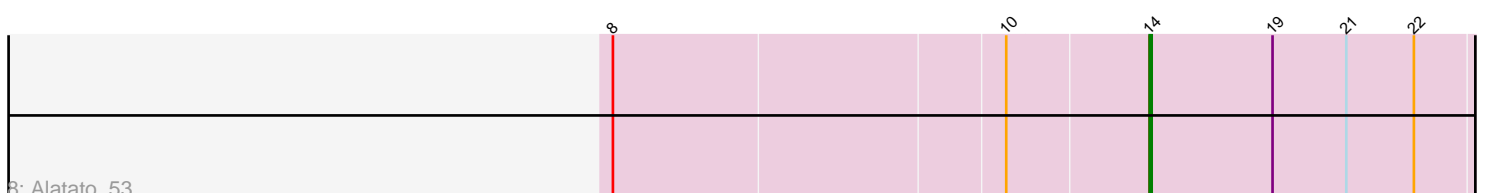
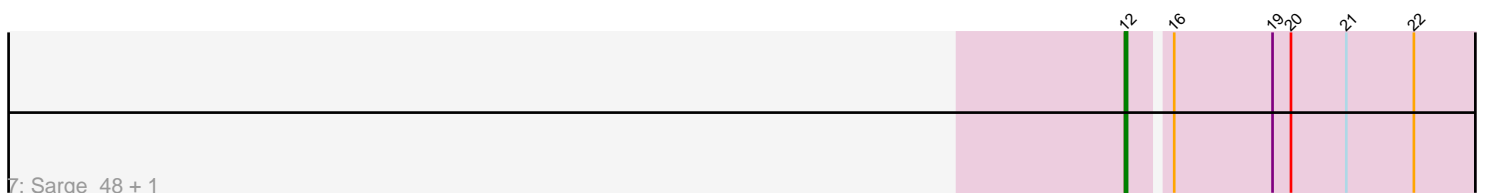
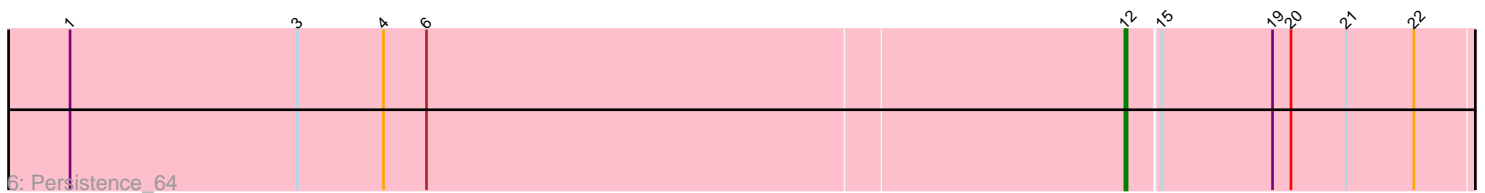
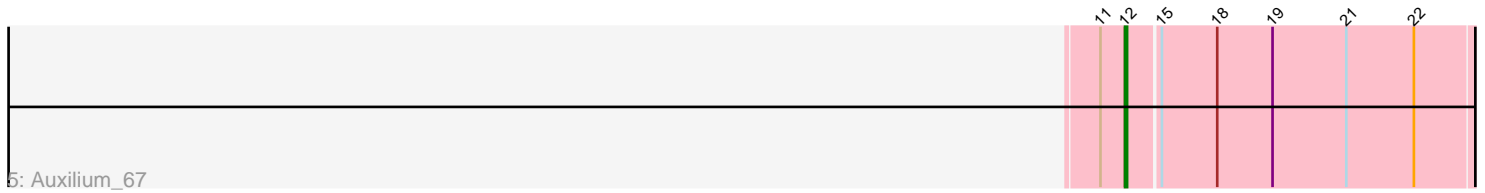
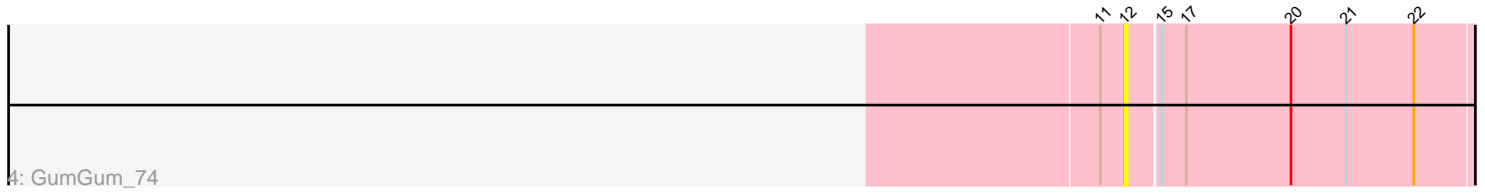
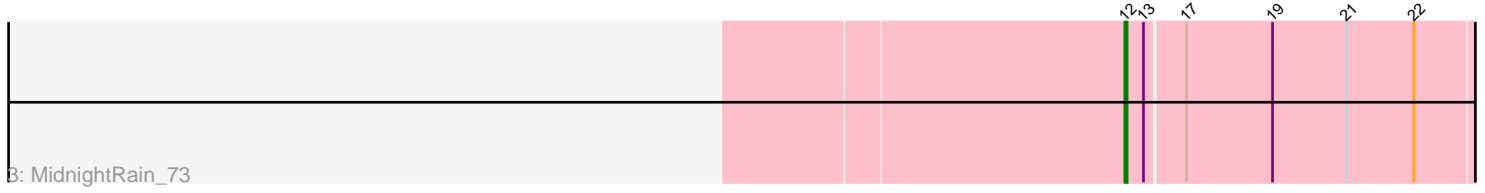
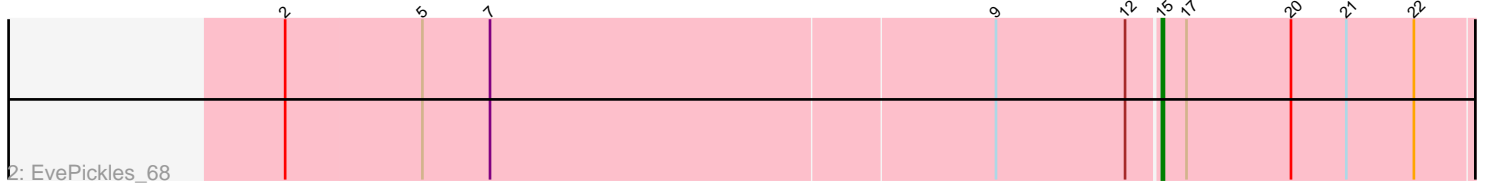
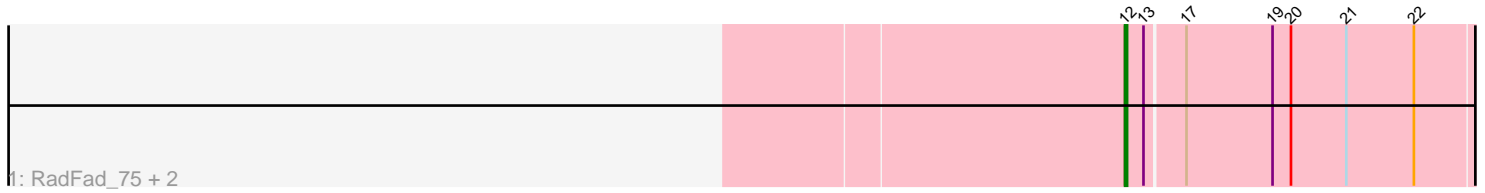


Pham 301954



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 301954 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301954 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : RadFad\_75, Vopal\_72, Hillester\_75
- Track 2 : EvePickles\_68
- Track 3 : MidnightRain\_73
- Track 4 : GumGum\_74
- Track 5 : Auxilium\_67
- Track 6 : Persistence\_64
- Track 7 : Sarge\_48, BrayBeast\_54
- Track 8 : Alatato\_53

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

The start number called the most often in the published annotations is 12, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auxilium\_67, BrayBeast\_54, GumGum\_74, Hillester\_75, MidnightRain\_73, Persistence\_64, RadFad\_75, Sarge\_48, Vopal\_72,

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

- EvePickles\_68,

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

- Alatato\_53,

### **Summary by start number:**

Start 12:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Auxilium\_67 (AY), BrayBeast\_54 (FB), GumGum\_74 (AY), Hillester\_75 (AY), MidnightRain\_73 (AY), Persistence\_64 (AY), RadFad\_75 (AY), Sarge\_48 (FB), Vopal\_72 (AY),

Start 14:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatao\_53 (FB),

Start 15:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 25.0% of time when present
- Phage (with cluster) where this start called: EvePickles\_68 (AY),

**Summary by clusters:**

There are 2 clusters represented in this pham: AY, FB,

Info for manual annotations of cluster AY:

- Start number 12 was manually annotated 5 times for cluster AY.
- Start number 15 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FB:

- Start number 12 was manually annotated 2 times for cluster FB.
- Start number 14 was manually annotated 1 time for cluster FB.

**Gene Information:**

Gene: Alatao\_53 Start: 31219, Stop: 31377, Start Num: 14

Candidate Starts for Alatao\_53:

(8, 30967), (10, 31153), (Start: 14 @31219 has 1 MA's), (19, 31279), (21, 31315), (22, 31348),

Gene: Auxilium\_67 Start: 35324, Stop: 35491, Start Num: 12

Candidate Starts for Auxilium\_67:

(11, 35312), (Start: 12 @35324 has 7 MA's), (Start: 15 @35339 has 1 MA's), (18, 35366), (19, 35393), (21, 35429), (22, 35462),

Gene: BrayBeast\_54 Start: 31079, Stop: 31249, Start Num: 12

Candidate Starts for BrayBeast\_54:

(Start: 12 @31079 has 7 MA's), (16, 31097), (19, 31145), (20, 31154), (21, 31181), (22, 31214),

Gene: EvePickles\_68 Start: 38201, Stop: 38353, Start Num: 15

Candidate Starts for EvePickles\_68:

(2, 37781), (5, 37847), (7, 37880), (9, 38123), (Start: 12 @38186 has 7 MA's), (Start: 15 @38201 has 1 MA's), (17, 38213), (20, 38264), (21, 38291), (22, 38324),

Gene: GumGum\_74 Start: 38050, Stop: 38217, Start Num: 12

Candidate Starts for GumGum\_74:

(11, 38038), (Start: 12 @38050 has 7 MA's), (Start: 15 @38065 has 1 MA's), (17, 38077), (20, 38128), (21, 38155), (22, 38188),

Gene: Hillester\_75 Start: 38659, Stop: 38826, Start Num: 12

Candidate Starts for Hillester\_75:

(Start: 12 @38659 has 7 MA's), (13, 38668), (17, 38686), (19, 38728), (20, 38737), (21, 38764), (22, 38797),

Gene: MidnightRain\_73 Start: 38445, Stop: 38612, Start Num: 12

Candidate Starts for MidnightRain\_73:

(Start: 12 @38445 has 7 MA's), (13, 38454), (17, 38472), (19, 38514), (21, 38550), (22, 38583),

Gene: Persistence\_64 Start: 35999, Stop: 36166, Start Num: 12

Candidate Starts for Persistence\_64:

(1, 35489), (3, 35600), (4, 35642), (6, 35663), (Start: 12 @35999 has 7 MA's), (Start: 15 @36014 has 1 MA's), (19, 36068), (20, 36077), (21, 36104), (22, 36137),

Gene: RadFad\_75 Start: 38659, Stop: 38826, Start Num: 12

Candidate Starts for RadFad\_75:

(Start: 12 @38659 has 7 MA's), (13, 38668), (17, 38686), (19, 38728), (20, 38737), (21, 38764), (22, 38797),

Gene: Sarge\_48 Start: 28826, Stop: 28996, Start Num: 12

Candidate Starts for Sarge\_48:

(Start: 12 @28826 has 7 MA's), (16, 28844), (19, 28892), (20, 28901), (21, 28928), (22, 28961),

Gene: Vopal\_72 Start: 40127, Stop: 40294, Start Num: 12

Candidate Starts for Vopal\_72:

(Start: 12 @40127 has 7 MA's), (13, 40136), (17, 40154), (19, 40196), (20, 40205), (21, 40232), (22, 40265),