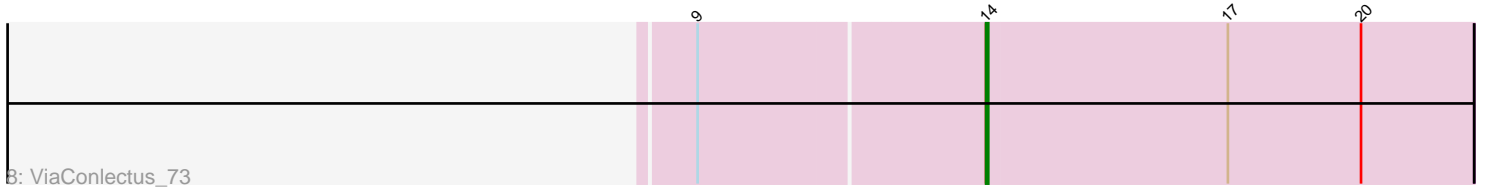
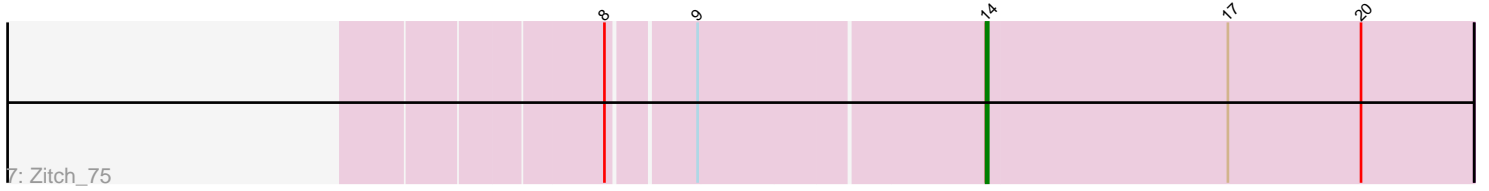
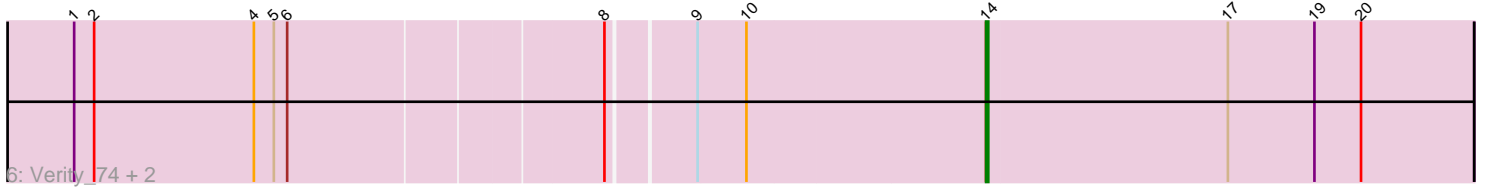
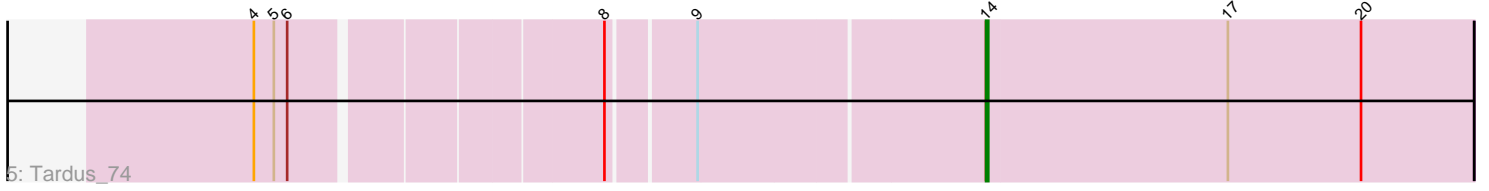
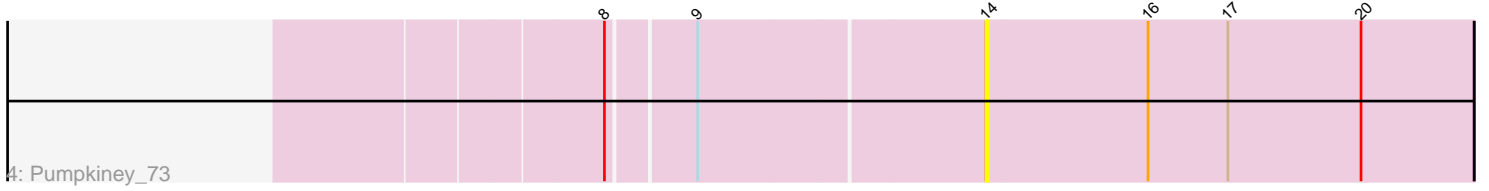
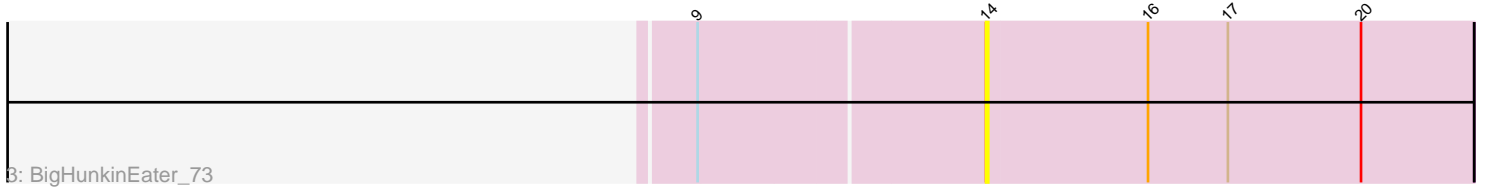
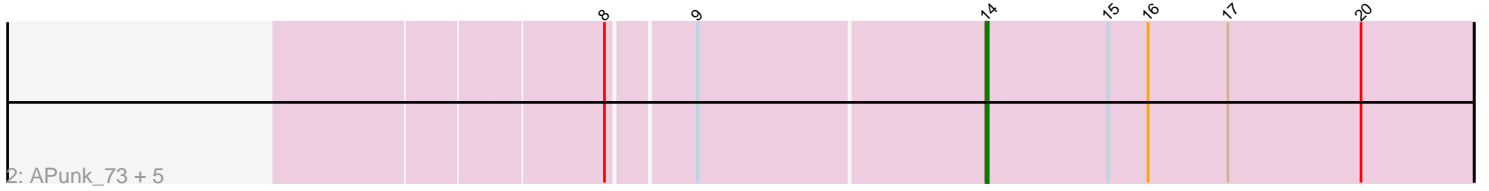
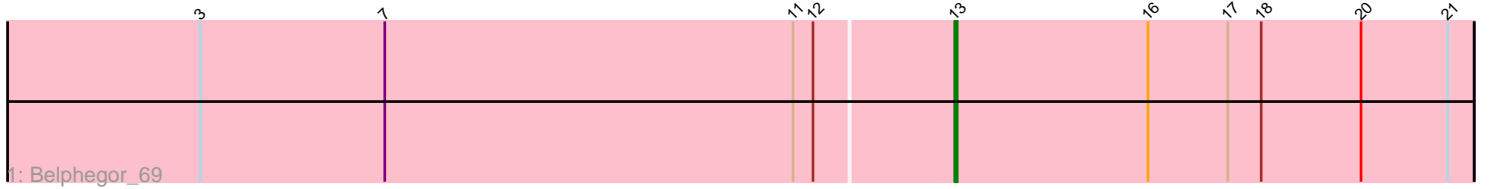


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 297067 Report

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

Pham number 297067 has 15 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Belphegor\_69
- Track 2 : APunk\_73, Abblin\_73, Scioto\_73, Natkenzie\_73, Sampson\_75, Zipp\_74
- Track 3 : BigHunkinEater\_73
- Track 4 : Pumpkiney\_73
- Track 5 : Tardus\_74
- Track 6 : Verity\_74, Delrey21\_74, DoctorFroggo\_74
- Track 7 : Zitch\_75
- Track 8 : ViaConlectus\_73

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

The start number called the most often in the published annotations is 14, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk\_73, Abblin\_73, BigHunkinEater\_73, Delrey21\_74, DoctorFroggo\_74, Natkenzie\_73, Pumpkiney\_73, Sampson\_75, Scioto\_73, Tardus\_74, Verity\_74, ViaConlectus\_73, Zipp\_74, Zitch\_75,

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

- 

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

- Belphegor\_69,

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

Start 13:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belphegor\_69 (DE2),

Start 14:

- Found in 14 of 15 ( 93.3% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk\_73 (DE4), Abblin\_73 (DE4), BigHunkinEater\_73 (DE4), Delrey21\_74 (DE4), DoctorFroggo\_74 (DE4), Natkenzie\_73 (DE4), Pumpkiney\_73 (DE4), Sampson\_75 (DE4), Scioto\_73 (DE4), Tardus\_74 (DE4), Verity\_74 (DE4), ViaConlectus\_73 (DE4), Zipp\_74 (DE4), Zitch\_75 (DE4),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DE2, DE4,

Info for manual annotations of cluster DE2:

- Start number 13 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 14 was manually annotated 9 times for cluster DE4.

### **Gene Information:**

Gene: APunk\_73 Start: 53717, Stop: 53935, Start Num: 14

Candidate Starts for APunk\_73:

(8, 53558), (9, 53594), (Start: 14 @53717 has 9 MA's), (15, 53771), (16, 53789), (17, 53825), (20, 53885),

Gene: Abblin\_73 Start: 53875, Stop: 54093, Start Num: 14

Candidate Starts for Abblin\_73:

(8, 53716), (9, 53752), (Start: 14 @53875 has 9 MA's), (15, 53929), (16, 53947), (17, 53983), (20, 54043),

Gene: Belphegor\_69 Start: 54091, Stop: 54324, Start Num: 13

Candidate Starts for Belphegor\_69:

(3, 53758), (7, 53839), (11, 54022), (12, 54031), (Start: 13 @54091 has 1 MA's), (16, 54178), (17, 54214), (18, 54229), (20, 54274), (21, 54313),

Gene: BigHunkinEater\_73 Start: 53522, Stop: 53740, Start Num: 14

Candidate Starts for BigHunkinEater\_73:

(9, 53399), (Start: 14 @53522 has 9 MA's), (16, 53594), (17, 53630), (20, 53690),

Gene: Delrey21\_74 Start: 55666, Stop: 55884, Start Num: 14

Candidate Starts for Delrey21\_74:

(1, 55273), (2, 55282), (4, 55354), (5, 55363), (6, 55369), (8, 55504), (9, 55540), (10, 55561), (Start: 14 @55666 has 9 MA's), (17, 55774), (19, 55813), (20, 55834),

Gene: DoctorFroggo\_74 Start: 55666, Stop: 55884, Start Num: 14

Candidate Starts for DoctorFroggo\_74:

(1, 55273), (2, 55282), (4, 55354), (5, 55363), (6, 55369), (8, 55504), (9, 55540), (10, 55561), (Start: 14 @55666 has 9 MA's), (17, 55774), (19, 55813), (20, 55834),

Gene: Natkenzie\_73 Start: 53875, Stop: 54093, Start Num: 14

Candidate Starts for Natkenzie\_73:

(8, 53716), (9, 53752), (Start: 14 @53875 has 9 MA's), (15, 53929), (16, 53947), (17, 53983), (20, 54043),

Gene: Pumpkiney\_73 Start: 52482, Stop: 52700, Start Num: 14

Candidate Starts for Pumpkiney\_73:

(8, 52323), (9, 52359), (Start: 14 @52482 has 9 MA's), (16, 52554), (17, 52590), (20, 52650),

Gene: Sampson\_75 Start: 54026, Stop: 54244, Start Num: 14

Candidate Starts for Sampson\_75:

(8, 53867), (9, 53903), (Start: 14 @54026 has 9 MA's), (15, 54080), (16, 54098), (17, 54134), (20, 54194),

Gene: Scioto\_73 Start: 53876, Stop: 54094, Start Num: 14

Candidate Starts for Scioto\_73:

(8, 53717), (9, 53753), (Start: 14 @53876 has 9 MA's), (15, 53930), (16, 53948), (17, 53984), (20, 54044),

Gene: Tardus\_74 Start: 54330, Stop: 54548, Start Num: 14

Candidate Starts for Tardus\_74:

(4, 54027), (5, 54036), (6, 54042), (8, 54171), (9, 54207), (Start: 14 @54330 has 9 MA's), (17, 54438), (20, 54498),

Gene: Verity\_74 Start: 55666, Stop: 55884, Start Num: 14

Candidate Starts for Verity\_74:

(1, 55273), (2, 55282), (4, 55354), (5, 55363), (6, 55369), (8, 55504), (9, 55540), (10, 55561), (Start: 14 @55666 has 9 MA's), (17, 55774), (19, 55813), (20, 55834),

Gene: ViaConlectus\_73 Start: 52827, Stop: 53045, Start Num: 14

Candidate Starts for ViaConlectus\_73:

(9, 52704), (Start: 14 @52827 has 9 MA's), (17, 52935), (20, 52995),

Gene: Zipp\_74 Start: 55254, Stop: 55472, Start Num: 14

Candidate Starts for Zipp\_74:

(8, 55095), (9, 55131), (Start: 14 @55254 has 9 MA's), (15, 55308), (16, 55326), (17, 55362), (20, 55422),

Gene: Zitch\_75 Start: 53704, Stop: 53922, Start Num: 14

Candidate Starts for Zitch\_75:

(8, 53545), (9, 53581), (Start: 14 @53704 has 9 MA's), (17, 53812), (20, 53872),