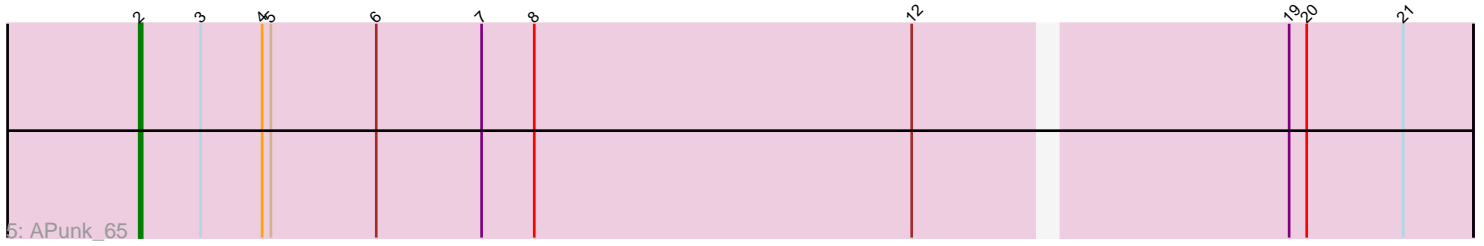
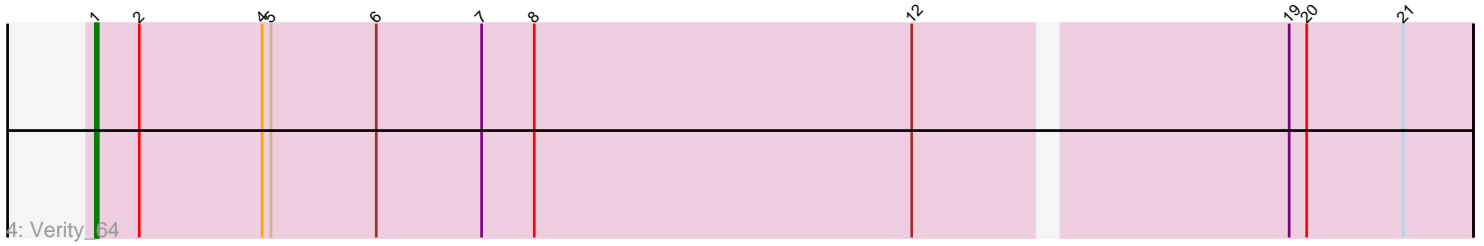
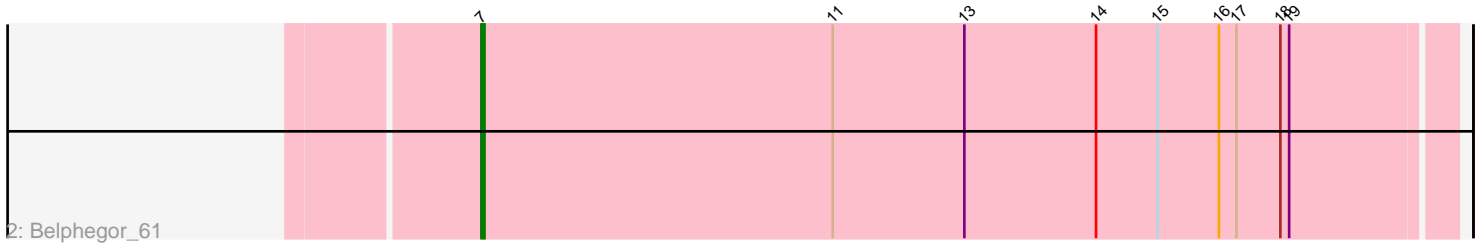
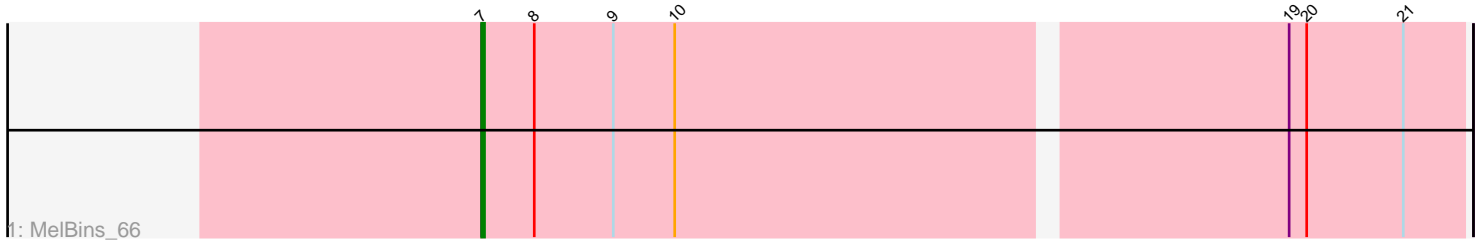


# Pham 301947



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 301947 Report

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

Pham number 301947 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : MelBins\_66
- Track 2 : Belphegor\_61
- Track 3 : Abblin\_65, Sampson\_67, Scioto\_66, Natkenzie\_65
- Track 4 : Verity\_64
- Track 5 : APunk\_65
- Track 6 : DoctorFroggo\_64, Zipp\_66, Delrey21\_64

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

The start number called the most often in the published annotations is 7, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abblin\_65, Belphegor\_61, Delrey21\_64, DoctorFroggo\_64, MelBins\_66, Natkenzie\_65, Sampson\_67, Scioto\_66, Zipp\_66,

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

- APunk\_65, Verity\_64,

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

- 

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

Start 1:

- Found in 8 of 11 ( 72.7% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Verity\_64 (DE4),

Start 2:

- Found in 9 of 11 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 11.1% of time when present

- Phage (with cluster) where this start called: APunk\_65 (DE4),

Start 7:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Abblin\_65 (DE4), Belphegor\_61 (DE2), Delrey21\_64 (DE4), DoctorFroggo\_64 (DE4), MelBins\_66 (DE2), Natkenzie\_65 (DE4), Sampson\_67 (DE4), Scioto\_66 (DE4), Zipp\_66 (DE4),

### Summary by clusters:

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

Info for manual annotations of cluster DE2:

- Start number 7 was manually annotated 2 times for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 1 was manually annotated 1 time for cluster DE4.
- Start number 2 was manually annotated 1 time for cluster DE4.
- Start number 7 was manually annotated 7 times for cluster DE4.

### Gene Information:

Gene: APunk\_65 Start: 49264, Stop: 49710, Start Num: 2

Candidate Starts for APunk\_65:

(Start: 2 @49264 has 1 MA's), (3, 49285), (4, 49306), (5, 49309), (6, 49345), (Start: 7 @49381 has 9 MA's), (8, 49399), (12, 49528), (19, 49648), (20, 49654), (21, 49687),

Gene: Abblin\_65 Start: 49677, Stop: 50006, Start Num: 7

Candidate Starts for Abblin\_65:

(Start: 1 @49545 has 1 MA's), (Start: 2 @49560 has 1 MA's), (4, 49602), (5, 49605), (6, 49641), (Start: 7 @49677 has 9 MA's), (8, 49695), (12, 49824), (19, 49944), (20, 49950), (21, 49983),

Gene: Belphegor\_61 Start: 49273, Stop: 49602, Start Num: 7

Candidate Starts for Belphegor\_61:

(Start: 7 @49273 has 9 MA's), (11, 49393), (13, 49438), (14, 49483), (15, 49504), (16, 49525), (17, 49531), (18, 49546), (19, 49549),

Gene: Delrey21\_64 Start: 50623, Stop: 50952, Start Num: 7

Candidate Starts for Delrey21\_64:

(Start: 1 @50491 has 1 MA's), (Start: 2 @50506 has 1 MA's), (4, 50548), (5, 50551), (6, 50587), (Start: 7 @50623 has 9 MA's), (8, 50641), (12, 50770), (19, 50890), (20, 50896), (21, 50929),

Gene: DoctorFroggo\_64 Start: 50623, Stop: 50952, Start Num: 7

Candidate Starts for DoctorFroggo\_64:

(Start: 1 @50491 has 1 MA's), (Start: 2 @50506 has 1 MA's), (4, 50548), (5, 50551), (6, 50587), (Start: 7 @50623 has 9 MA's), (8, 50641), (12, 50770), (19, 50890), (20, 50896), (21, 50929),

Gene: MelBins\_66 Start: 49855, Stop: 50181, Start Num: 7

Candidate Starts for MelBins\_66:

(Start: 7 @49855 has 9 MA's), (8, 49873), (9, 49900), (10, 49921), (19, 50122), (20, 50128), (21, 50161),

Gene: Natkenzie\_65 Start: 49677, Stop: 50006, Start Num: 7

Candidate Starts for Natkenzie\_65:

(Start: 1 @49545 has 1 MA's), (Start: 2 @49560 has 1 MA's), (4, 49602), (5, 49605), (6, 49641), (Start: 7 @49677 has 9 MA's), (8, 49695), (12, 49824), (19, 49944), (20, 49950), (21, 49983),

Gene: Sampson\_67 Start: 49828, Stop: 50157, Start Num: 7

Candidate Starts for Sampson\_67:

(Start: 1 @49696 has 1 MA's), (Start: 2 @49711 has 1 MA's), (4, 49753), (5, 49756), (6, 49792), (Start: 7 @49828 has 9 MA's), (8, 49846), (12, 49975), (19, 50095), (20, 50101), (21, 50134),

Gene: Scioto\_66 Start: 49678, Stop: 50007, Start Num: 7

Candidate Starts for Scioto\_66:

(Start: 1 @49546 has 1 MA's), (Start: 2 @49561 has 1 MA's), (4, 49603), (5, 49606), (6, 49642), (Start: 7 @49678 has 9 MA's), (8, 49696), (12, 49825), (19, 49945), (20, 49951), (21, 49984),

Gene: Verity\_64 Start: 50491, Stop: 50952, Start Num: 1

Candidate Starts for Verity\_64:

(Start: 1 @50491 has 1 MA's), (Start: 2 @50506 has 1 MA's), (4, 50548), (5, 50551), (6, 50587), (Start: 7 @50623 has 9 MA's), (8, 50641), (12, 50770), (19, 50890), (20, 50896), (21, 50929),

Gene: Zipp\_66 Start: 50685, Stop: 51014, Start Num: 7

Candidate Starts for Zipp\_66:

(Start: 1 @50553 has 1 MA's), (Start: 2 @50568 has 1 MA's), (4, 50610), (5, 50613), (6, 50649), (Start: 7 @50685 has 9 MA's), (8, 50703), (12, 50832), (19, 50952), (20, 50958), (21, 50991),