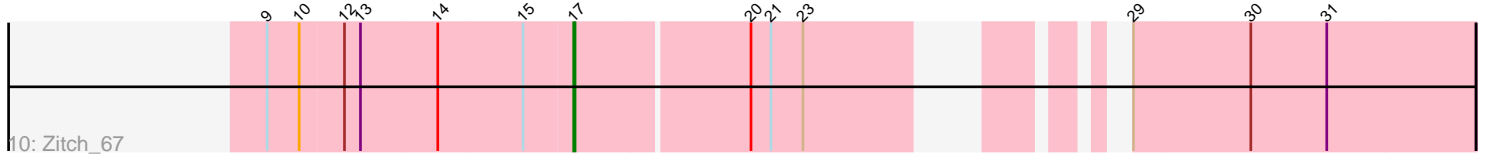
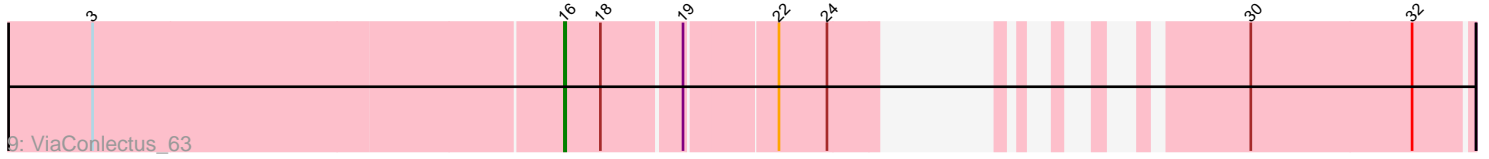
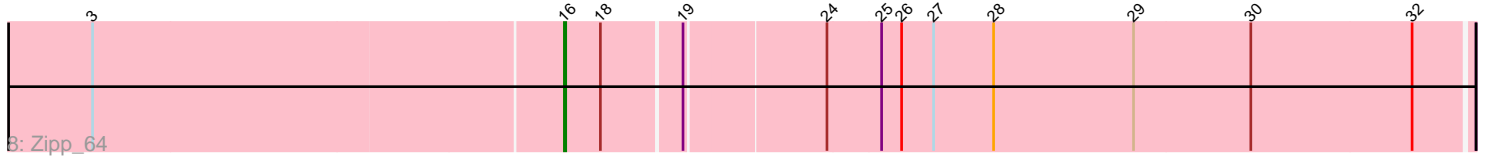
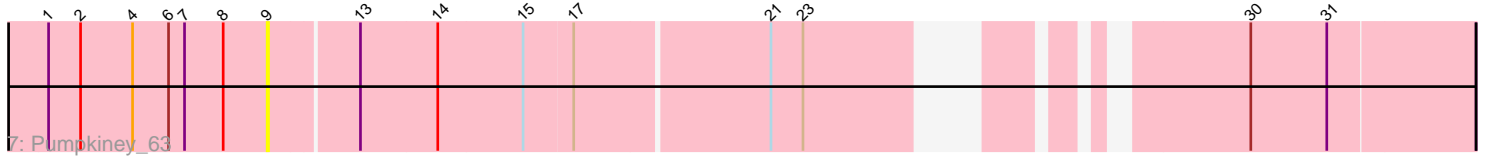
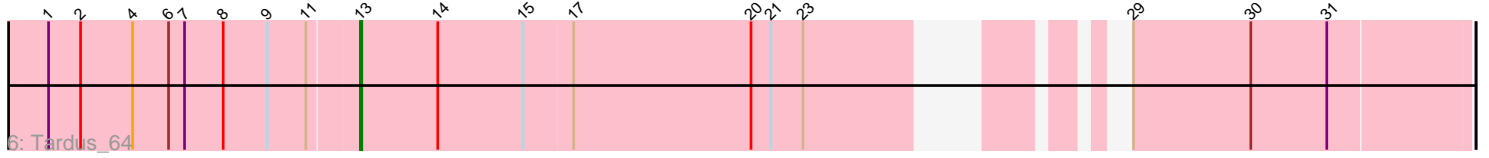
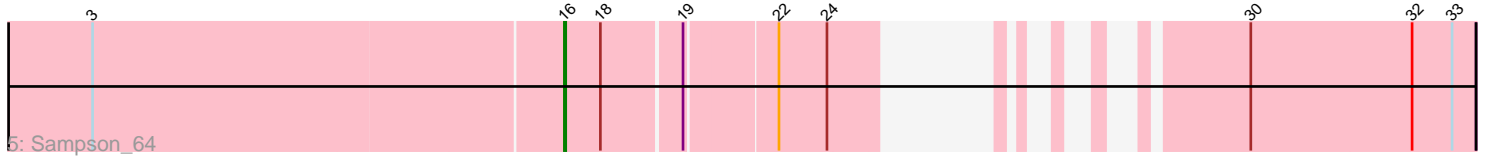
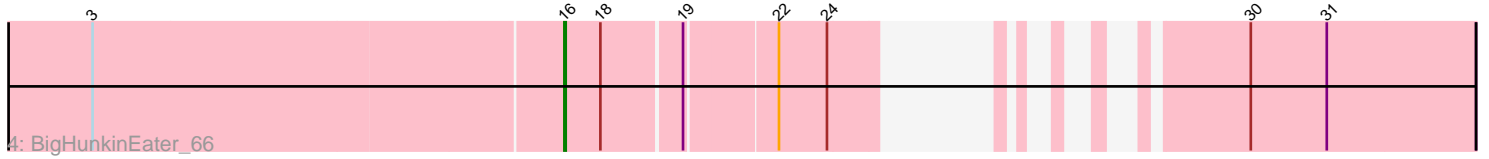
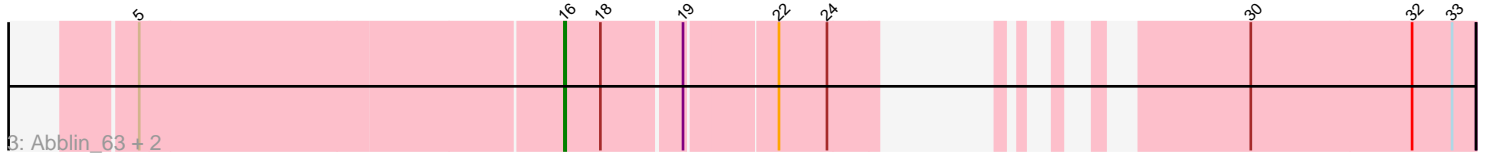
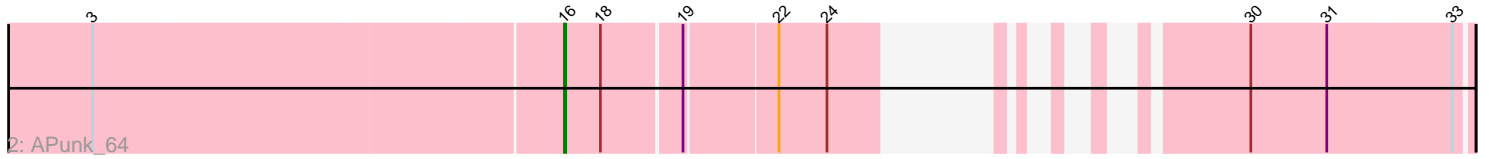
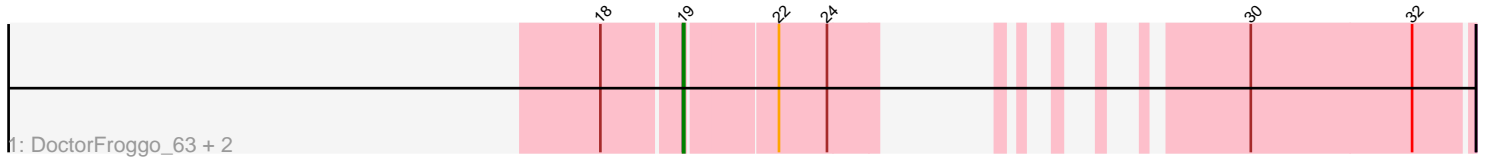


# Pham 301879



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 301879 Report

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

Pham number 301879 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : DoctorFroggo\_63, Verity\_63, Delrey21\_63
- Track 2 : APunk\_64
- Track 3 : Abblin\_63, Scioto\_64, Natkenzie\_63
- Track 4 : BigHunkinEater\_66
- Track 5 : Sampson\_64
- Track 6 : Tardus\_64
- Track 7 : Pumpkiney\_63
- Track 8 : Zipp\_64
- Track 9 : ViaConlectus\_63
- Track 10 : Zitch\_67

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

The start number called the most often in the published annotations is 16, it was called in 8 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk\_64, Abblin\_63, BigHunkinEater\_66, Natkenzie\_63, Sampson\_64, Scioto\_64, ViaConlectus\_63, Zipp\_64,

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

- 

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

- Delrey21\_63, DoctorFroggo\_63, Pumpkiney\_63, Tardus\_64, Verity\_63, Zitch\_67,

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

Start 9:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Pumpkiney\_63 (DE4),

Start 13:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Tardus\_64 (DE4),

Start 16:

- Found in 8 of 14 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 8 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk\_64 (DE4), Abblin\_63 (DE4), BigHunkinEater\_66 (DE4), Natkenzie\_63 (DE4), Sampson\_64 (DE4), Scioto\_64 (DE4), ViaConlectus\_63 (DE4), Zipp\_64 (DE4),

Start 17:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Zitch\_67 (DE4),

Start 19:

- Found in 11 of 14 ( 78.6% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 27.3% of time when present
- Phage (with cluster) where this start called: Delrey21\_63 (DE4), DoctorFroggo\_63 (DE4), Verity\_63 (DE4),

**Summary by clusters:**

There is one cluster represented in this pham: DE4

Info for manual annotations of cluster DE4:

- Start number 13 was manually annotated 1 time for cluster DE4.
- Start number 16 was manually annotated 8 times for cluster DE4.
- Start number 17 was manually annotated 1 time for cluster DE4.
- Start number 19 was manually annotated 3 times for cluster DE4.

**Gene Information:**

Gene: APunk\_64 Start: 48715, Stop: 49200, Start Num: 16

Candidate Starts for APunk\_64:

(3, 48370), (Start: 16 @48715 has 8 MA's), (18, 48742), (Start: 19 @48799 has 3 MA's), (22, 48862), (24, 48898), (30, 49039), (31, 49096), (33, 49189),

Gene: Abblin\_63 Start: 48864, Stop: 49367, Start Num: 16

Candidate Starts for Abblin\_63:

(5, 48555), (Start: 16 @48864 has 8 MA's), (18, 48891), (Start: 19 @48948 has 3 MA's), (22, 49011), (24, 49047), (30, 49200), (32, 49320), (33, 49350),

Gene: BigHunkinEater\_66 Start: 48430, Stop: 48921, Start Num: 16

Candidate Starts for BigHunkinEater\_66:

(3, 48085), (Start: 16 @48430 has 8 MA's), (18, 48457), (Start: 19 @48514 has 3 MA's), (22, 48577), (24, 48613), (30, 48754), (31, 48811),

Gene: Delrey21\_63 Start: 50058, Stop: 50453, Start Num: 19

Candidate Starts for Delrey21\_63:

(18, 50001), (Start: 19 @50058 has 3 MA's), (22, 50121), (24, 50157), (30, 50292), (32, 50412),

Gene: DoctorFroggo\_63 Start: 50058, Stop: 50453, Start Num: 19

Candidate Starts for DoctorFroggo\_63:

(18, 50001), (Start: 19 @50058 has 3 MA's), (22, 50121), (24, 50157), (30, 50292), (32, 50412),

Gene: Natkenzie\_63 Start: 48864, Stop: 49367, Start Num: 16

Candidate Starts for Natkenzie\_63:

(5, 48555), (Start: 16 @48864 has 8 MA's), (18, 48891), (Start: 19 @48948 has 3 MA's), (22, 49011), (24, 49047), (30, 49200), (32, 49320), (33, 49350),

Gene: Pumpkiney\_63 Start: 47204, Stop: 47989, Start Num: 9

Candidate Starts for Pumpkiney\_63:

(1, 47042), (2, 47066), (4, 47105), (6, 47132), (7, 47144), (8, 47171), (9, 47204), (Start: 13 @47267 has 1 MA's), (14, 47324), (15, 47387), (Start: 17 @47423 has 1 MA's), (21, 47564), (23, 47588), (30, 47825), (31, 47882),

Gene: Sampson\_64 Start: 49027, Stop: 49518, Start Num: 16

Candidate Starts for Sampson\_64:

(3, 48682), (Start: 16 @49027 has 8 MA's), (18, 49054), (Start: 19 @49111 has 3 MA's), (22, 49174), (24, 49210), (30, 49351), (32, 49471), (33, 49501),

Gene: Scioto\_64 Start: 48865, Stop: 49368, Start Num: 16

Candidate Starts for Scioto\_64:

(5, 48556), (Start: 16 @48865 has 8 MA's), (18, 48892), (Start: 19 @48949 has 3 MA's), (22, 49012), (24, 49048), (30, 49201), (32, 49321), (33, 49351),

Gene: Tardus\_64 Start: 48797, Stop: 49519, Start Num: 13

Candidate Starts for Tardus\_64:

(1, 48572), (2, 48596), (4, 48635), (6, 48662), (7, 48674), (8, 48701), (9, 48734), (11, 48761), (Start: 13 @48797 has 1 MA's), (14, 48854), (15, 48917), (Start: 17 @48953 has 1 MA's), (20, 49085), (21, 49100), (23, 49124), (29, 49274), (30, 49361), (31, 49418),

Gene: Verity\_63 Start: 50058, Stop: 50453, Start Num: 19

Candidate Starts for Verity\_63:

(18, 50001), (Start: 19 @50058 has 3 MA's), (22, 50121), (24, 50157), (30, 50292), (32, 50412),

Gene: ViaConlectus\_63 Start: 47858, Stop: 48343, Start Num: 16

Candidate Starts for ViaConlectus\_63:

(3, 47513), (Start: 16 @47858 has 8 MA's), (18, 47885), (Start: 19 @47942 has 3 MA's), (22, 48005), (24, 48041), (30, 48182), (32, 48302),

Gene: Zipp\_64 Start: 49856, Stop: 50515, Start Num: 16

Candidate Starts for Zipp\_64:

(3, 49511), (Start: 16 @49856 has 8 MA's), (18, 49883), (Start: 19 @49940 has 3 MA's), (24, 50039), (25, 50078), (26, 50093), (27, 50117), (28, 50162), (29, 50267), (30, 50354), (32, 50474),

Gene: Zitch\_67 Start: 48507, Stop: 49076, Start Num: 17

Candidate Starts for Zitch\_67:

(9, 48285), (10, 48309), (12, 48339), (Start: 13 @48351 has 1 MA's), (14, 48408), (15, 48471), (Start:  
17 @48507 has 1 MA's), (20, 48633), (21, 48648), (23, 48672), (29, 48822), (30, 48909), (31, 48966),