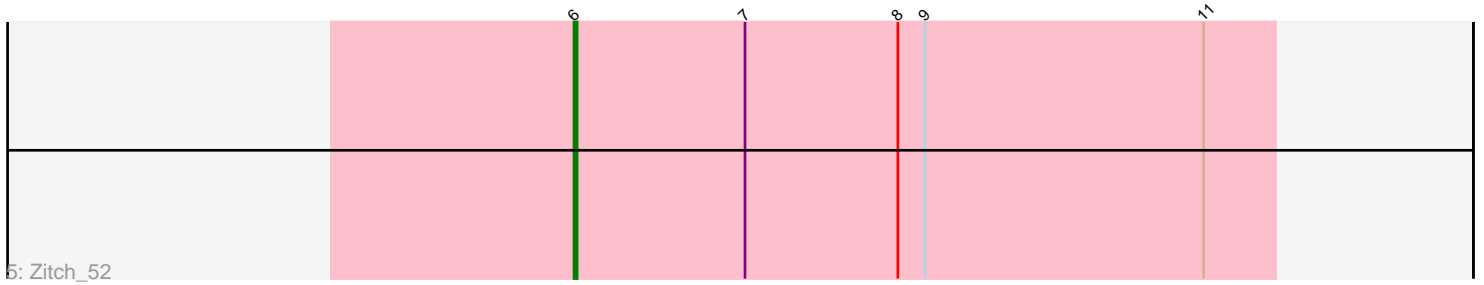
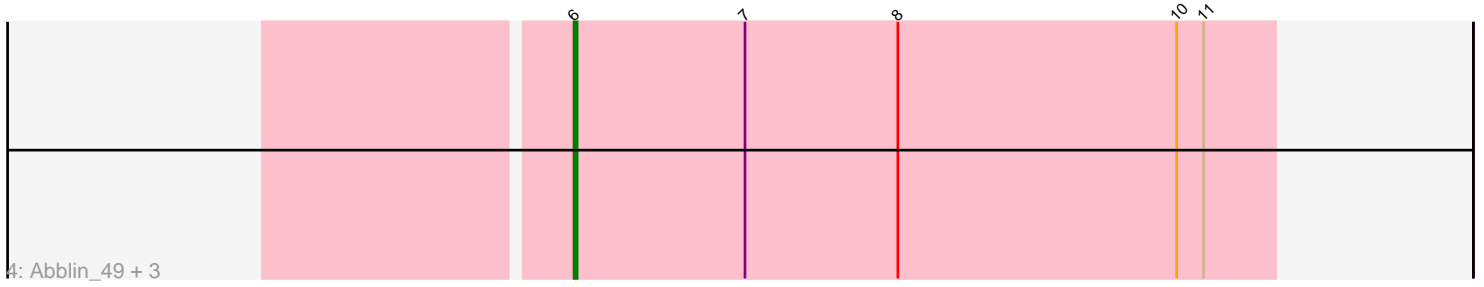
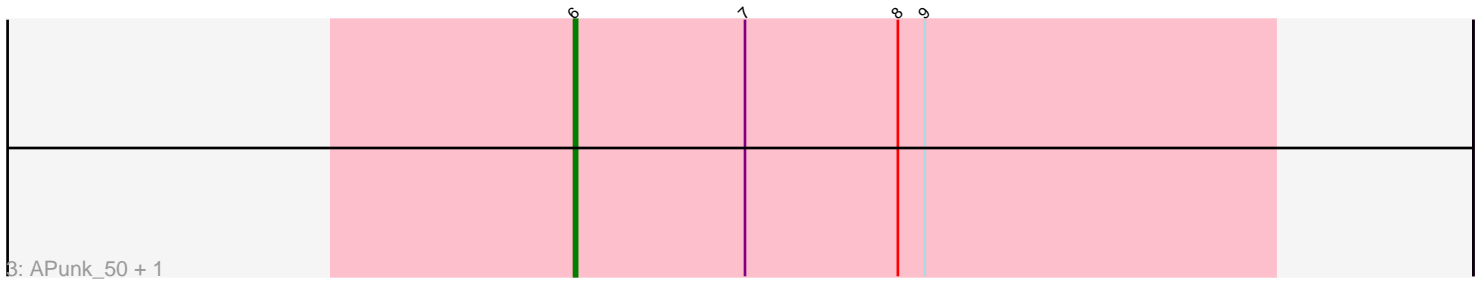
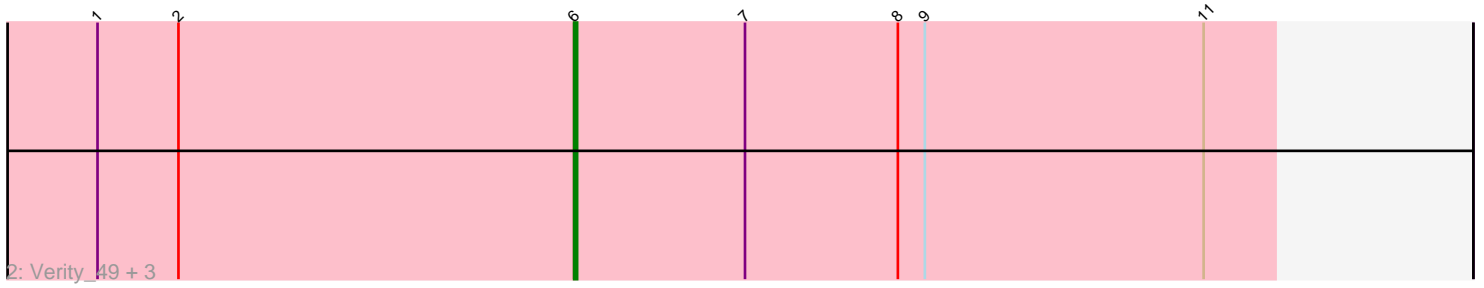
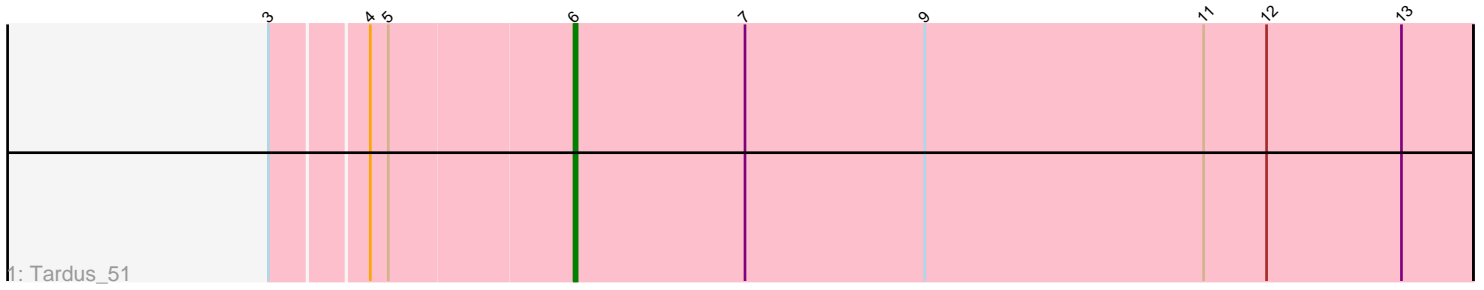


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 225053 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225053 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Tardus\_51
- Track 2 : Verity\_49, Delrey21\_49, DoctorFroggo\_49, Zipp\_50
- Track 3 : APunk\_50, ViaConlectus\_49
- Track 4 : Abblin\_49, Natkenzie\_49, Scioto\_50, Sampson\_49
- Track 5 : Zitch\_52

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

The start number called the most often in the published annotations is 6, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk\_50, Abblin\_49, Delrey21\_49, DoctorFroggo\_49, Natkenzie\_49, Sampson\_49, Scioto\_50, Tardus\_51, Verity\_49, ViaConlectus\_49, Zipp\_50, Zitch\_52,

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

- 

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

- 

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

Start 6:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk\_50 (DE4), Abblin\_49 (DE4), Delrey21\_49 (DE4), DoctorFroggo\_49 (DE4), Natkenzie\_49 (DE4), Sampson\_49 (DE4), Scioto\_50 (DE4), Tardus\_51 (DE4), Verity\_49 (DE4), ViaConlectus\_49 (DE4), Zipp\_50 (DE4), Zitch\_52 (DE4),

### **Summary by clusters:**

There is one cluster represented in this pham: DE4

Info for manual annotations of cluster DE4:

•Start number 6 was manually annotated 9 times for cluster DE4.

**Gene Information:**

Gene: APunk\_50 Start: 41636, Stop: 41869, Start Num: 6

Candidate Starts for APunk\_50:

(Start: 6 @41636 has 9 MA's), (7, 41693), (8, 41744), (9, 41753),

Gene: Abblin\_49 Start: 42179, Stop: 42412, Start Num: 6

Candidate Starts for Abblin\_49:

(Start: 6 @42179 has 9 MA's), (7, 42236), (8, 42287), (10, 42380), (11, 42389),

Gene: Delrey21\_49 Start: 42950, Stop: 43183, Start Num: 6

Candidate Starts for Delrey21\_49:

(1, 42791), (2, 42818), (Start: 6 @42950 has 9 MA's), (7, 43007), (8, 43058), (9, 43067), (11, 43160),

Gene: DoctorFroggo\_49 Start: 42950, Stop: 43183, Start Num: 6

Candidate Starts for DoctorFroggo\_49:

(1, 42791), (2, 42818), (Start: 6 @42950 has 9 MA's), (7, 43007), (8, 43058), (9, 43067), (11, 43160),

Gene: Natkenzie\_49 Start: 42179, Stop: 42412, Start Num: 6

Candidate Starts for Natkenzie\_49:

(Start: 6 @42179 has 9 MA's), (7, 42236), (8, 42287), (10, 42380), (11, 42389),

Gene: Sampson\_49 Start: 42124, Stop: 42357, Start Num: 6

Candidate Starts for Sampson\_49:

(Start: 6 @42124 has 9 MA's), (7, 42181), (8, 42232), (10, 42325), (11, 42334),

Gene: Scioto\_50 Start: 42180, Stop: 42413, Start Num: 6

Candidate Starts for Scioto\_50:

(Start: 6 @42180 has 9 MA's), (7, 42237), (8, 42288), (10, 42381), (11, 42390),

Gene: Tardus\_51 Start: 41789, Stop: 42088, Start Num: 6

Candidate Starts for Tardus\_51:

(3, 41693), (4, 41723), (5, 41729), (Start: 6 @41789 has 9 MA's), (7, 41846), (9, 41906), (11, 41999), (12, 42020), (13, 42065),

Gene: Verity\_49 Start: 42950, Stop: 43183, Start Num: 6

Candidate Starts for Verity\_49:

(1, 42791), (2, 42818), (Start: 6 @42950 has 9 MA's), (7, 43007), (8, 43058), (9, 43067), (11, 43160),

Gene: ViaConlectus\_49 Start: 40808, Stop: 41041, Start Num: 6

Candidate Starts for ViaConlectus\_49:

(Start: 6 @40808 has 9 MA's), (7, 40865), (8, 40916), (9, 40925),

Gene: Zipp\_50 Start: 42865, Stop: 43098, Start Num: 6

Candidate Starts for Zipp\_50:

(1, 42706), (2, 42733), (Start: 6 @42865 has 9 MA's), (7, 42922), (8, 42973), (9, 42982), (11, 43075),

Gene: Zitch\_52 Start: 40964, Stop: 41197, Start Num: 6

Candidate Starts for Zitch\_52:

(Start: 6 @40964 has 9 MA's), (7, 41021), (8, 41072), (9, 41081), (11, 41174),