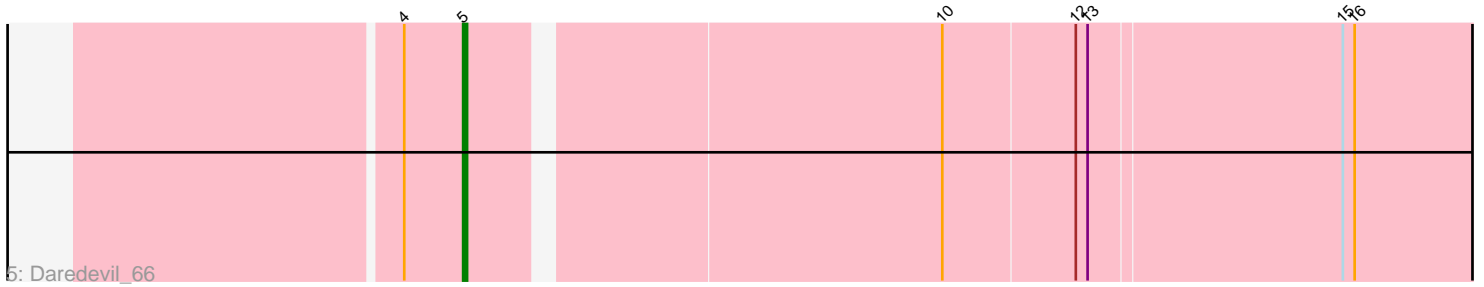
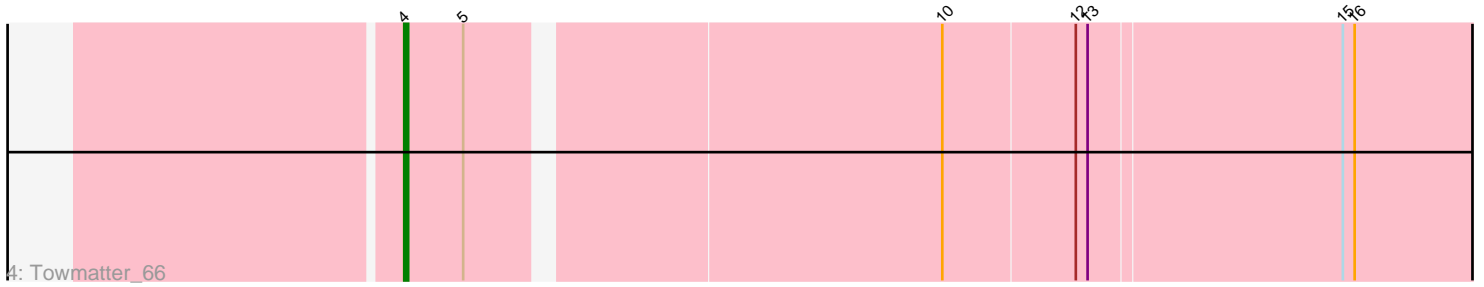
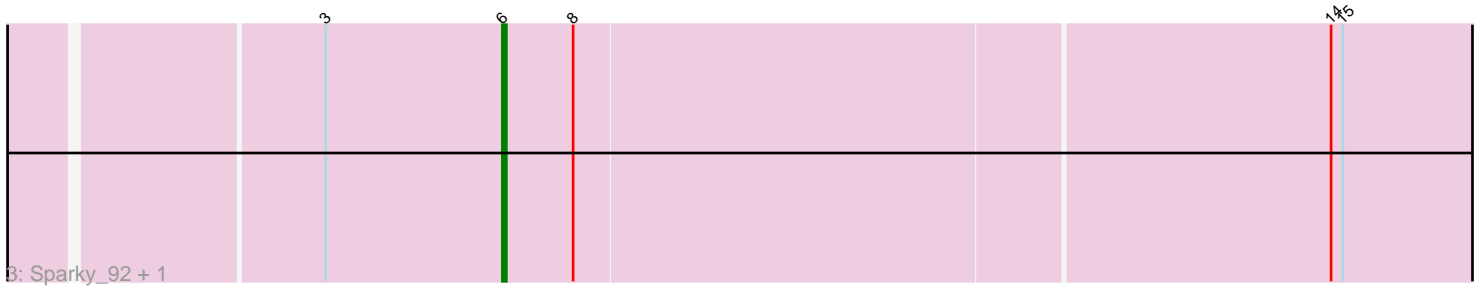
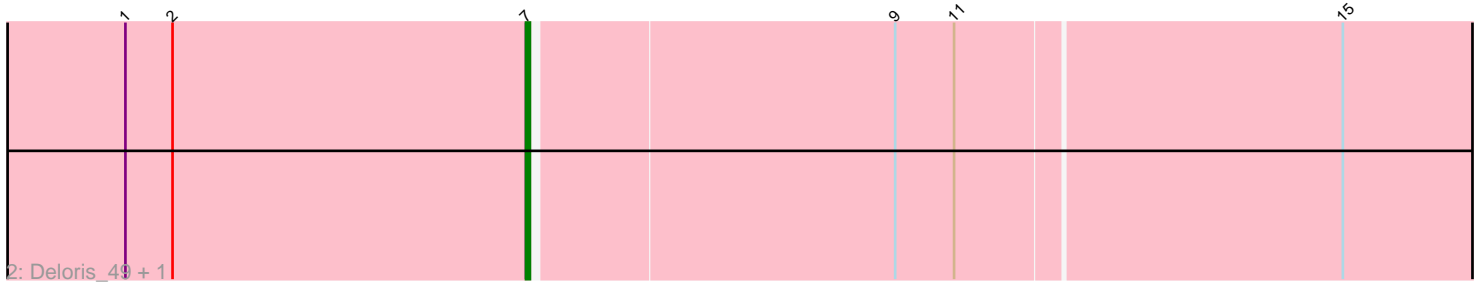
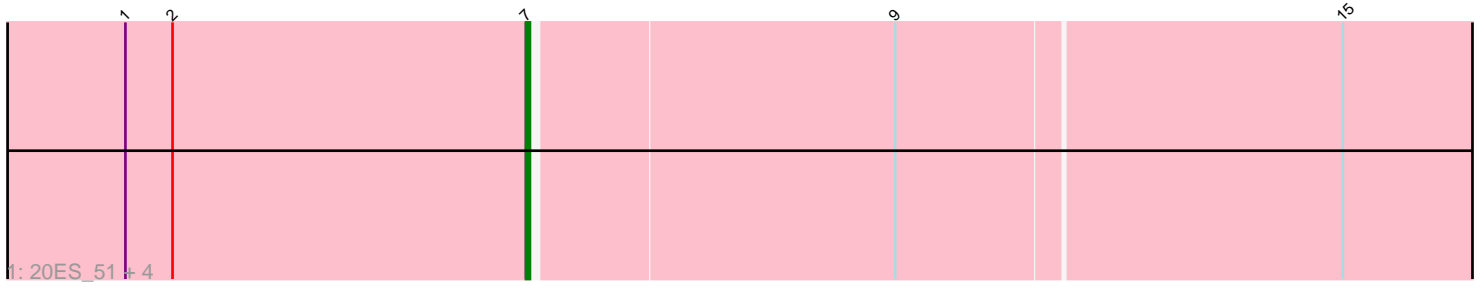


Pham 303842



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 303842 Report

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

Pham number 303842 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : 20ES\_51, First\_0050, LadyBird\_53, AN3\_51, VA6\_49
- Track 2 : Deloris\_49, BengiVuitton\_50
- Track 3 : Sparky\_92, Farewell\_93
- Track 4 : Towmatter\_66
- Track 5 : Daredevil\_66

### ***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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES\_51, AN3\_51, BengiVuitton\_50, Deloris\_49, First\_0050, LadyBird\_53, VA6\_49,

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

- 

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

- Daredevil\_66, Farewell\_93, Sparky\_92, Towmatter\_66,

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

Start 4:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Towmatter\_66 (DL),

Start 5:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Daredevil\_66 (DL),

Start 6:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell\_93 (AF), Sparky\_92 (AF),

Start 7:

- Found in 7 of 11 ( 63.6% ) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES\_51 (A2), AN3\_51 (A2), BengiVuitton\_50 (A2), Deloris\_49 (A2), First\_0050 (A2), LadyBird\_53 (A2), VA6\_49 (A2),

**Summary by clusters:**

There are 3 clusters represented in this pham: DL, A2, AF,

Info for manual annotations of cluster A2:

- Start number 7 was manually annotated 5 times for cluster A2.

Info for manual annotations of cluster AF:

- Start number 6 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster DL:

- Start number 4 was manually annotated 1 time for cluster DL.
- Start number 5 was manually annotated 1 time for cluster DL.

**Gene Information:**

Gene: 20ES\_51 Start: 32882, Stop: 32634, Start Num: 7

Candidate Starts for 20ES\_51:

(1, 32984), (2, 32972), (Start: 7 @32882 has 5 MA's), (9, 32792), (15, 32681),

Gene: AN3\_51 Start: 33253, Stop: 33005, Start Num: 7

Candidate Starts for AN3\_51:

(1, 33355), (2, 33343), (Start: 7 @33253 has 5 MA's), (9, 33163), (15, 33052),

Gene: BengiVuitton\_50 Start: 32835, Stop: 32587, Start Num: 7

Candidate Starts for BengiVuitton\_50:

(1, 32937), (2, 32925), (Start: 7 @32835 has 5 MA's), (9, 32745), (11, 32730), (15, 32634),

Gene: Daredevil\_66 Start: 49516, Stop: 49250, Start Num: 5

Candidate Starts for Daredevil\_66:

(Start: 4 @49531 has 1 MA's), (Start: 5 @49516 has 1 MA's), (10, 49402), (12, 49369), (13, 49366), (15, 49303), (16, 49300),

Gene: Deloris\_49 Start: 32504, Stop: 32256, Start Num: 7

Candidate Starts for Deloris\_49:

(1, 32606), (2, 32594), (Start: 7 @32504 has 5 MA's), (9, 32414), (11, 32399), (15, 32303),

Gene: Farewell\_93 Start: 60714, Stop: 60971, Start Num: 6  
Candidate Starts for Farewell\_93:  
(3, 60669), (Start: 6 @60714 has 2 MA's), (8, 60732), (14, 60921), (15, 60924),

Gene: First\_0050 Start: 32758, Stop: 32510, Start Num: 7  
Candidate Starts for First\_0050:  
(1, 32860), (2, 32848), (Start: 7 @32758 has 5 MA's), (9, 32668), (15, 32557),

Gene: LadyBird\_53 Start: 33193, Stop: 32945, Start Num: 7  
Candidate Starts for LadyBird\_53:  
(1, 33295), (2, 33283), (Start: 7 @33193 has 5 MA's), (9, 33103), (15, 32992),

Gene: Sparky\_92 Start: 62308, Stop: 62565, Start Num: 6  
Candidate Starts for Sparky\_92:  
(3, 62263), (Start: 6 @62308 has 2 MA's), (8, 62326), (14, 62515), (15, 62518),

Gene: Towmatter\_66 Start: 49610, Stop: 49329, Start Num: 4  
Candidate Starts for Towmatter\_66:  
(Start: 4 @49610 has 1 MA's), (Start: 5 @49595 has 1 MA's), (10, 49481), (12, 49448), (13, 49445),  
(15, 49382), (16, 49379),

Gene: VA6\_49 Start: 32727, Stop: 32479, Start Num: 7  
Candidate Starts for VA6\_49:  
(1, 32829), (2, 32817), (Start: 7 @32727 has 5 MA's), (9, 32637), (15, 32526),