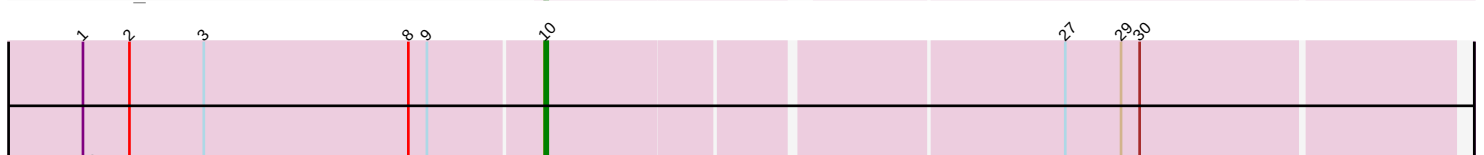
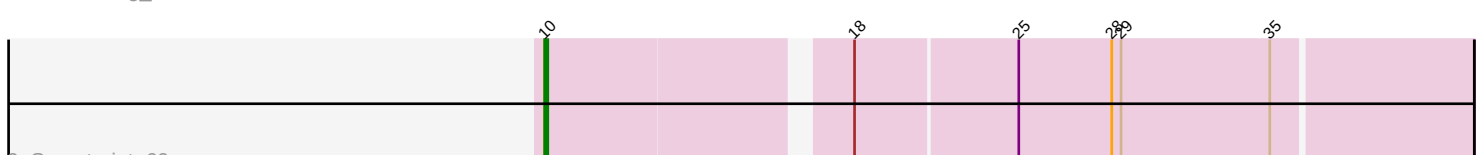
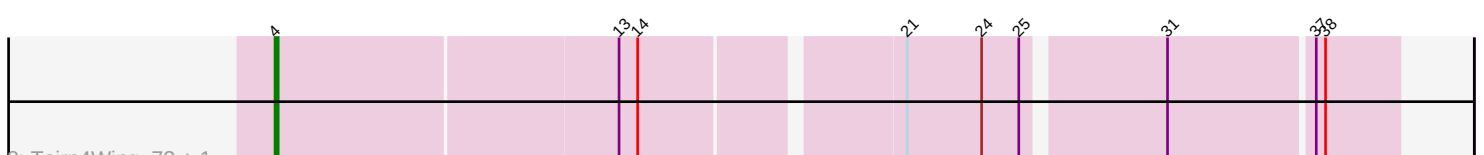
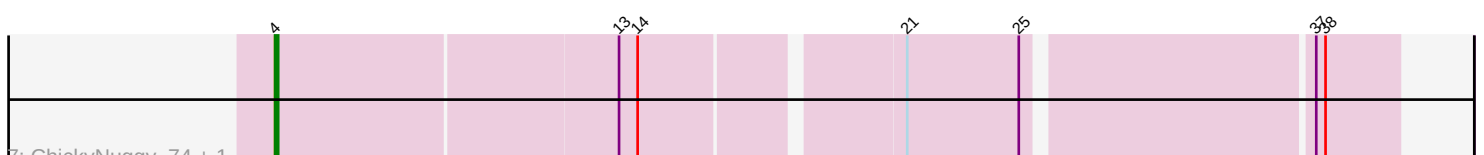
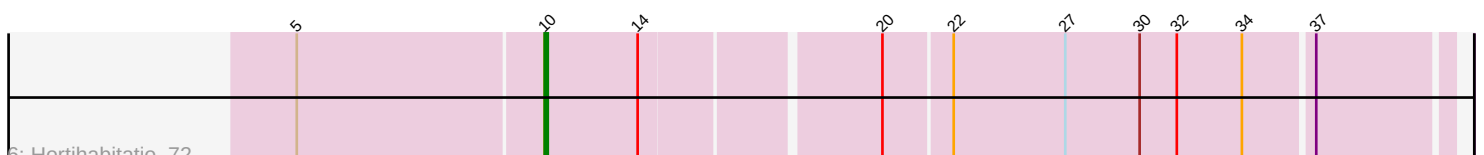
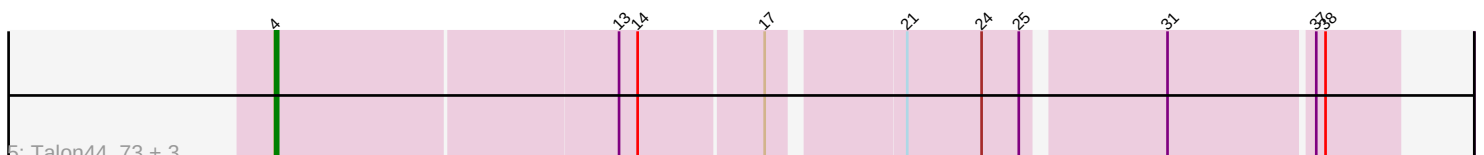
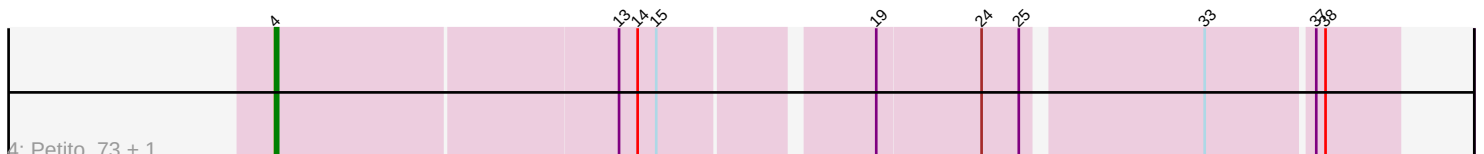
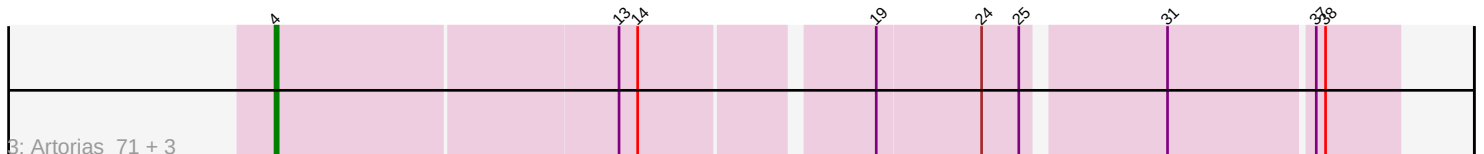
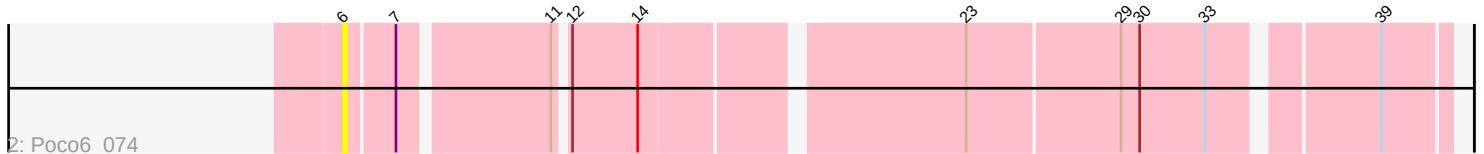
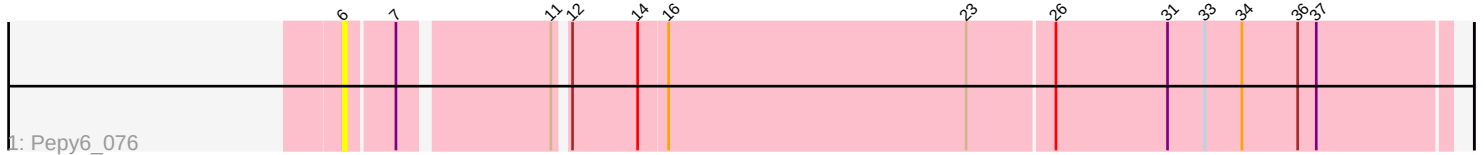


# Pham 309351



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 309351 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309351 has 19 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Pepy6\_076
- Track 2 : Poco6\_074
- Track 3 : Artorias\_71, Dancer\_71, Bugg\_74, FortCran\_71
- Track 4 : Petito\_73, Football\_73
- Track 5 : Talon44\_73, Captrips\_70, NoPickles\_70, Avazak\_72
- Track 6 : Hortihabitatio\_72
- Track 7 : ChickyNuggy\_74, JulesRay\_71
- Track 8 : Tairn4Wing\_73, Trufflozitus\_72
- Track 9 : Secretariat\_69
- Track 10 : Fazel\_72

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias\_71, Avazak\_72, Bugg\_74, Captrips\_70, ChickyNuggy\_74, Dancer\_71, Football\_73, FortCran\_71, JulesRay\_71, NoPickles\_70, Petito\_73, Tairn4Wing\_73, Talon44\_73, Trufflozitus\_72,

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

- 

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

- Fazel\_72, Hortihabitatio\_72, Pepy6\_076, Poco6\_074, Secretariat\_69,

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

Start 4:

- Found in 14 of 19 ( 73.7% ) of genes in pham
- Manual Annotations of this start: 10 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Artorias\_71 (DJ), Avazak\_72 (DJ), Bugg\_74 (DJ), Captrips\_70 (DJ), ChickyNuggy\_74 (DJ), Dancer\_71 (DJ), Football\_73 (DJ), FortCran\_71 (DJ), JulesRay\_71 (DJ), NoPickles\_70 (DJ), Petit\_73 (DJ), Tain4Wing\_73 (DJ), Talon44\_73 (DJ), Trufflozitus\_72 (DJ),

Start 6:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6\_076 (CC), Poco6\_074 (CC),

Start 10:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fazel\_72 (DJ), Hortihabitatio\_72 (DJ), Secretariat\_69 (DJ),

### Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:

- Start number 4 was manually annotated 10 times for cluster DJ.
- Start number 10 was manually annotated 3 times for cluster DJ.

### Gene Information:

Gene: Artorias\_71 Start: 48587, Stop: 48928, Start Num: 4

Candidate Starts for Artorias\_71:

(Start: 4 @48587 has 10 MA's), (13, 48695), (14, 48701), (19, 48770), (24, 48803), (25, 48815), (31, 48857), (37, 48902), (38, 48905),

Gene: Avazak\_72 Start: 48914, Stop: 49255, Start Num: 4

Candidate Starts for Avazak\_72:

(Start: 4 @48914 has 10 MA's), (13, 49022), (14, 49028), (17, 49067), (21, 49106), (24, 49130), (25, 49142), (31, 49184), (37, 49229), (38, 49232),

Gene: Bugg\_74 Start: 48632, Stop: 48973, Start Num: 4

Candidate Starts for Bugg\_74:

(Start: 4 @48632 has 10 MA's), (13, 48740), (14, 48746), (19, 48815), (24, 48848), (25, 48860), (31, 48902), (37, 48947), (38, 48950),

Gene: Captrips\_70 Start: 48062, Stop: 48403, Start Num: 4

Candidate Starts for Captrips\_70:

(Start: 4 @48062 has 10 MA's), (13, 48170), (14, 48176), (17, 48215), (21, 48254), (24, 48278), (25, 48290), (31, 48332), (37, 48377), (38, 48380),

Gene: ChickyNuggy\_74 Start: 48655, Stop: 48996, Start Num: 4

Candidate Starts for ChickyNuggy\_74:

(Start: 4 @48655 has 10 MA's), (13, 48763), (14, 48769), (21, 48847), (25, 48883), (37, 48970), (38, 48973),

Gene: Dancer\_71 Start: 48324, Stop: 48665, Start Num: 4

Candidate Starts for Dancer\_71:

(Start: 4 @48324 has 10 MA's), (13, 48432), (14, 48438), (19, 48507), (24, 48540), (25, 48552), (31, 48594), (37, 48639), (38, 48642),

Gene: Fazel\_72 Start: 48845, Stop: 49126, Start Num: 10

Candidate Starts for Fazel\_72:

(1, 48698), (2, 48713), (3, 48737), (8, 48803), (9, 48809), (Start: 10 @48845 has 3 MA's), (27, 49004), (29, 49022), (30, 49028),

Gene: Football\_73 Start: 48213, Stop: 48554, Start Num: 4

Candidate Starts for Football\_73:

(Start: 4 @48213 has 10 MA's), (13, 48321), (14, 48327), (15, 48333), (19, 48396), (24, 48429), (25, 48441), (33, 48495), (37, 48528), (38, 48531),

Gene: FortCran\_71 Start: 48587, Stop: 48928, Start Num: 4

Candidate Starts for FortCran\_71:

(Start: 4 @48587 has 10 MA's), (13, 48695), (14, 48701), (19, 48770), (24, 48803), (25, 48815), (31, 48857), (37, 48902), (38, 48905),

Gene: Hortihabitatio\_72 Start: 49221, Stop: 49499, Start Num: 10

Candidate Starts for Hortihabitatio\_72:

(5, 49143), (Start: 10 @49221 has 3 MA's), (14, 49251), (20, 49323), (22, 49344), (27, 49380), (30, 49404), (32, 49416), (34, 49437), (37, 49458),

Gene: JulesRay\_71 Start: 48580, Stop: 48921, Start Num: 4

Candidate Starts for JulesRay\_71:

(Start: 4 @48580 has 10 MA's), (13, 48688), (14, 48694), (21, 48772), (25, 48808), (37, 48895), (38, 48898),

Gene: NoPickles\_70 Start: 47748, Stop: 48089, Start Num: 4

Candidate Starts for NoPickles\_70:

(Start: 4 @47748 has 10 MA's), (13, 47856), (14, 47862), (17, 47901), (21, 47940), (24, 47964), (25, 47976), (31, 48018), (37, 48063), (38, 48066),

Gene: Pepy6\_076 Start: 59236, Stop: 59577, Start Num: 6

Candidate Starts for Pepy6\_076:

(6, 59236), (7, 59251), (11, 59296), (12, 59299), (14, 59320), (16, 59329), (23, 59425), (26, 59452), (31, 59488), (33, 59500), (34, 59512), (36, 59530), (37, 59536),

Gene: Petito\_73 Start: 49839, Stop: 50180, Start Num: 4

Candidate Starts for Petito\_73:

(Start: 4 @49839 has 10 MA's), (13, 49947), (14, 49953), (15, 49959), (19, 50022), (24, 50055), (25, 50067), (33, 50121), (37, 50154), (38, 50157),

Gene: Poco6\_074 Start: 60415, Stop: 60738, Start Num: 6

Candidate Starts for Poco6\_074:

(6, 60415), (7, 60430), (11, 60475), (12, 60478), (14, 60499), (23, 60595), (29, 60643), (30, 60649), (33, 60670), (39, 60718),

Gene: Secretariat\_69 Start: 47632, Stop: 47916, Start Num: 10

Candidate Starts for Secretariat\_69:

(Start: 10 @47632 has 3 MA's), (18, 47722), (25, 47773), (28, 47803), (29, 47806), (35, 47854),

Gene: Tairn4Wing\_73 Start: 48424, Stop: 48765, Start Num: 4

Candidate Starts for Tairn4Wing\_73:

(Start: 4 @48424 has 10 MA's), (13, 48532), (14, 48538), (21, 48616), (24, 48640), (25, 48652), (31, 48694), (37, 48739), (38, 48742),

Gene: Talon44\_73 Start: 48700, Stop: 49041, Start Num: 4

Candidate Starts for Talon44\_73:

(Start: 4 @48700 has 10 MA's), (13, 48808), (14, 48814), (17, 48853), (21, 48892), (24, 48916), (25, 48928), (31, 48970), (37, 49015), (38, 49018),

Gene: Trufflozitus\_72 Start: 48939, Stop: 49280, Start Num: 4

Candidate Starts for Trufflozitus\_72:

(Start: 4 @48939 has 10 MA's), (13, 49047), (14, 49053), (21, 49131), (24, 49155), (25, 49167), (31, 49209), (37, 49254), (38, 49257),