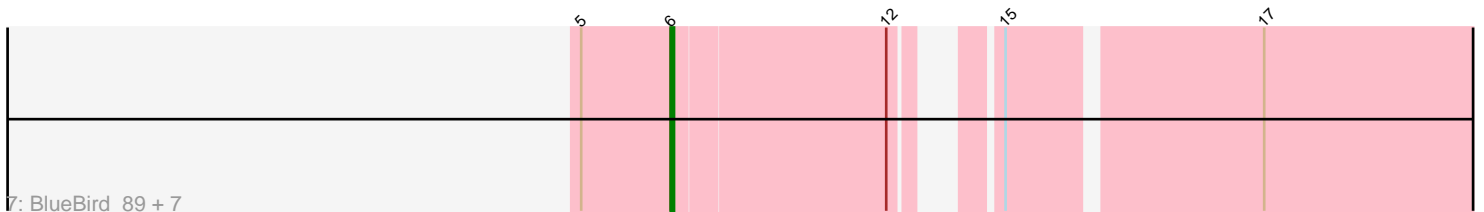
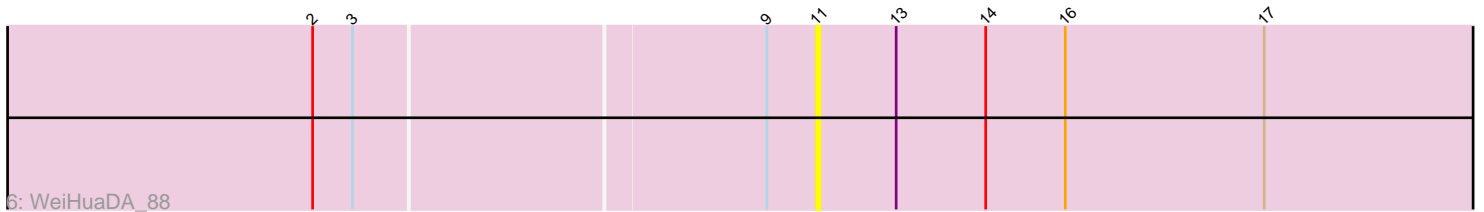
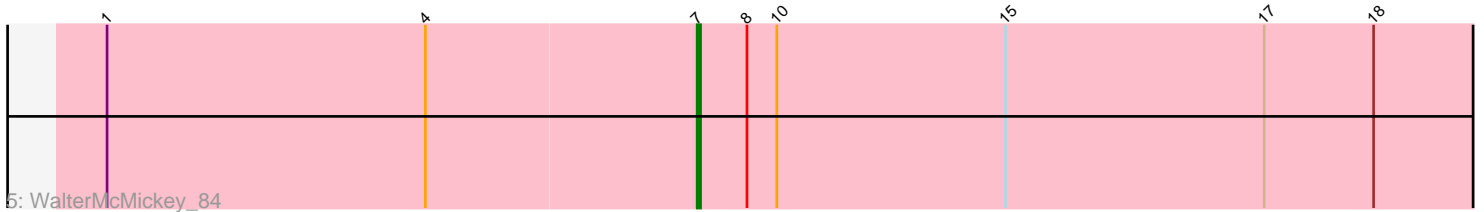
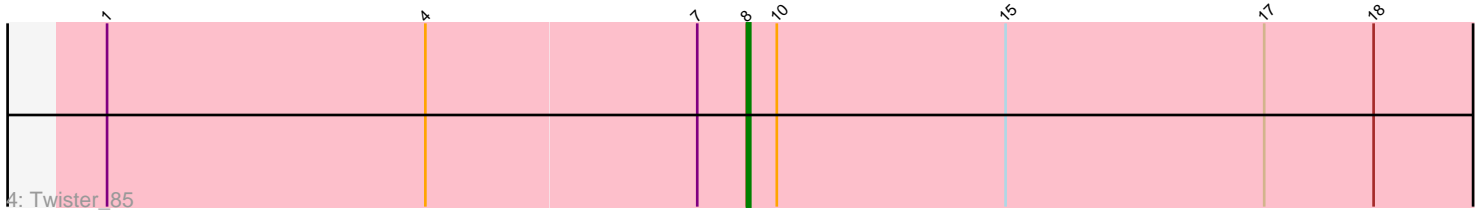
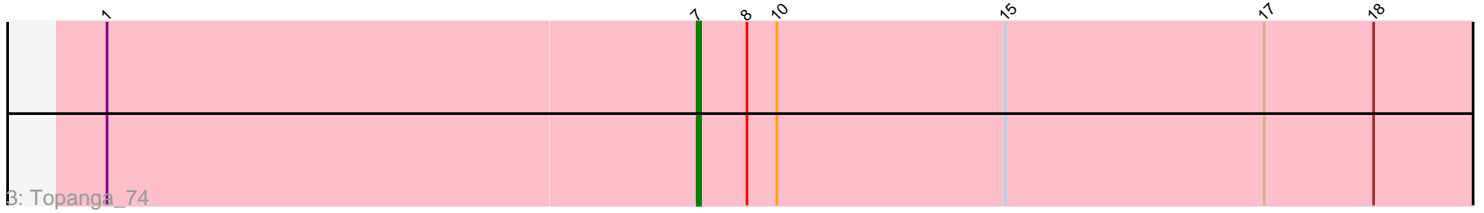
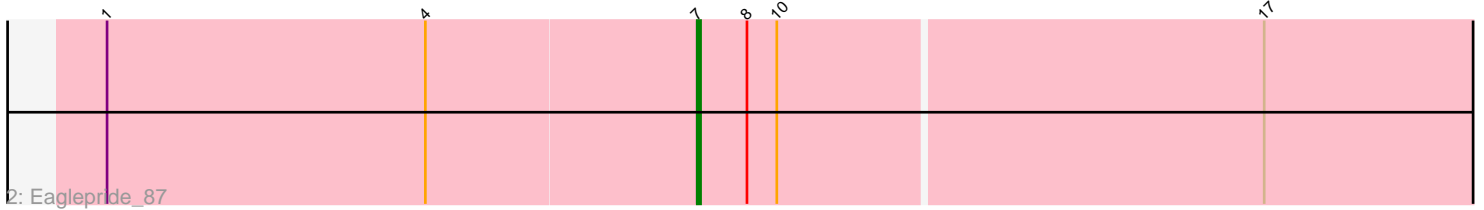
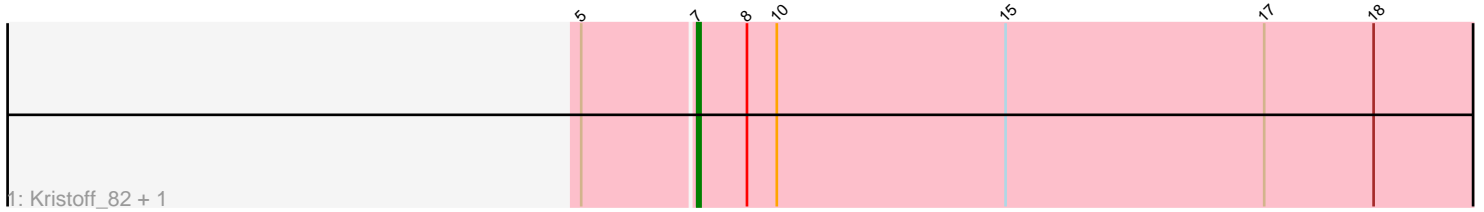


Pham 305397



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 305397 Report

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

Pham number 305397 has 15 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Kristoff\_82, Rebeuca\_85
- Track 2 : Eaglepride\_87
- Track 3 : Topanga\_74
- Track 4 : Twister\_85
- Track 5 : WalterMcMickey\_84
- Track 6 : WeiHuaDA\_88
- Track 7 : BlueBird\_89, Puppy\_88, SaturnRing\_88, Giroux\_90, Bugatti\_88, Pistachio\_87, Clammy\_88, TNguyen7\_88

### ***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 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Eaglepride\_87, Kristoff\_82, Rebeuca\_85, Topanga\_74, WalterMcMickey\_84,

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

- Twister\_85,

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

- BlueBird\_89, Bugatti\_88, Clammy\_88, Giroux\_90, Pistachio\_87, Puppy\_88, SaturnRing\_88, TNguyen7\_88, WeiHuaDA\_88,

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

Start 6:

- Found in 8 of 15 ( 53.3% ) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueBird\_89 (A3), Bugatti\_88 (A3), Clammy\_88 (A3), Giroux\_90 (A3), Pistachio\_87 (A3), Puppy\_88 (A3), SaturnRing\_88 (A3), TNguyen7\_88 (A3),

Start 7:

- Found in 6 of 15 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Eaglepride\_87 (A10), Kristoff\_82 (A10), Rebeuca\_85 (A10), Topanga\_74 (A10), WalterMcMickey\_84 (A10),

Start 8:

- Found in 6 of 15 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Twister\_85 (A10),

Start 11:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WeiHuaDA\_88 (A2),

**Summary by clusters:**

There are 3 clusters represented in this pham: A3, A2, A10,

Info for manual annotations of cluster A10:

- Start number 7 was manually annotated 5 times for cluster A10.
- Start number 8 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A3:

- Start number 6 was manually annotated 5 times for cluster A3.

**Gene Information:**

Gene: BlueBird\_89 Start: 48203, Stop: 47985, Start Num: 6

Candidate Starts for BlueBird\_89:

(5, 48230), (Start: 6 @48203 has 5 MA's), (12, 48140), (15, 48122), (17, 48050),

Gene: Bugatti\_88 Start: 48203, Stop: 47985, Start Num: 6

Candidate Starts for Bugatti\_88:

(5, 48230), (Start: 6 @48203 has 5 MA's), (12, 48140), (15, 48122), (17, 48050),

Gene: Clammy\_88 Start: 48203, Stop: 47985, Start Num: 6

Candidate Starts for Clammy\_88:

(5, 48230), (Start: 6 @48203 has 5 MA's), (12, 48140), (15, 48122), (17, 48050),

Gene: Eaglepride\_87 Start: 48695, Stop: 48462, Start Num: 7

Candidate Starts for Eaglepride\_87:

(1, 48872), (4, 48776), (Start: 7 @48695 has 5 MA's), (Start: 8 @48680 has 1 MA's), (10, 48671), (17, 48527),

Gene: Giroux\_90 Start: 48202, Stop: 47984, Start Num: 6

Candidate Starts for Giroux\_90:

(5, 48229), (Start: 6 @48202 has 5 MA's), (12, 48139), (15, 48121), (17, 48049),

Gene: Kristoff\_82 Start: 49033, Stop: 48797, Start Num: 7

Candidate Starts for Kristoff\_82:

(5, 49066), (Start: 7 @49033 has 5 MA's), (Start: 8 @49018 has 1 MA's), (10, 49009), (15, 48940), (17, 48862), (18, 48829),

Gene: Pistachio\_87 Start: 47750, Stop: 47532, Start Num: 6

Candidate Starts for Pistachio\_87:

(5, 47777), (Start: 6 @47750 has 5 MA's), (12, 47687), (15, 47669), (17, 47597),

Gene: Puppy\_88 Start: 47820, Stop: 47602, Start Num: 6

Candidate Starts for Puppy\_88:

(5, 47847), (Start: 6 @47820 has 5 MA's), (12, 47757), (15, 47739), (17, 47667),

Gene: Rebeuca\_85 Start: 49034, Stop: 48798, Start Num: 7

Candidate Starts for Rebeuca\_85:

(5, 49067), (Start: 7 @49034 has 5 MA's), (Start: 8 @49019 has 1 MA's), (10, 49010), (15, 48941), (17, 48863), (18, 48830),

Gene: SaturnRing\_88 Start: 48203, Stop: 47985, Start Num: 6

Candidate Starts for SaturnRing\_88:

(5, 48230), (Start: 6 @48203 has 5 MA's), (12, 48140), (15, 48122), (17, 48050),

Gene: TNguyen7\_88 Start: 48161, Stop: 47943, Start Num: 6

Candidate Starts for TNguyen7\_88:

(5, 48188), (Start: 6 @48161 has 5 MA's), (12, 48098), (15, 48080), (17, 48008),

Gene: Topanga\_74 Start: 45508, Stop: 45263, Start Num: 7

Candidate Starts for Topanga\_74:

(1, 45685), (Start: 7 @45508 has 5 MA's), (Start: 8 @45493 has 1 MA's), (10, 45484), (15, 45415), (17, 45337), (18, 45304),

Gene: Twister\_85 Start: 48707, Stop: 48477, Start Num: 8

Candidate Starts for Twister\_85:

(1, 48899), (4, 48803), (Start: 7 @48722 has 5 MA's), (Start: 8 @48707 has 1 MA's), (10, 48698), (15, 48629), (17, 48551), (18, 48518),

Gene: WalterMcMickey\_84 Start: 48722, Stop: 48477, Start Num: 7

Candidate Starts for WalterMcMickey\_84:

(1, 48899), (4, 48803), (Start: 7 @48722 has 5 MA's), (Start: 8 @48707 has 1 MA's), (10, 48698), (15, 48629), (17, 48551), (18, 48518),

Gene: WeiHuaDA\_88 Start: 49575, Stop: 49372, Start Num: 11

Candidate Starts for WeiHuaDA\_88:

(2, 49722), (3, 49710), (9, 49590), (11, 49575), (13, 49551), (14, 49524), (16, 49500), (17, 49440),