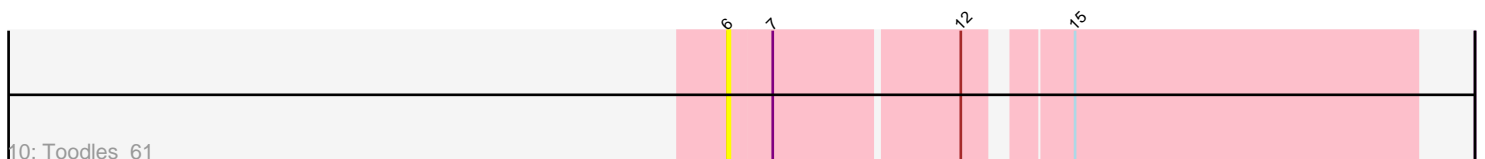
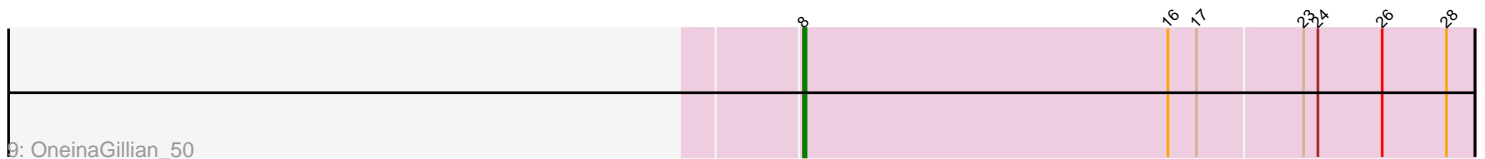
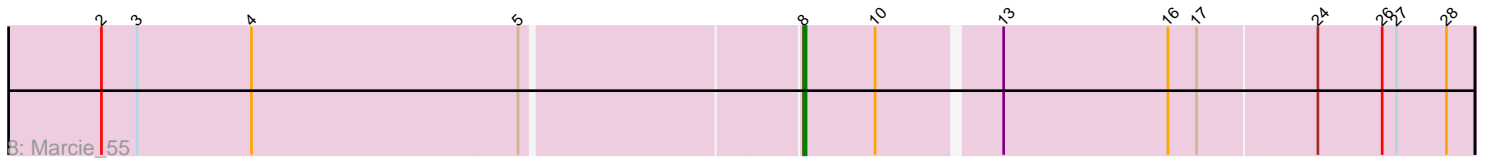
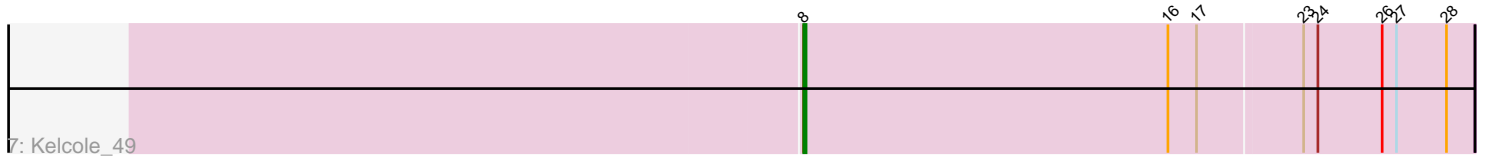
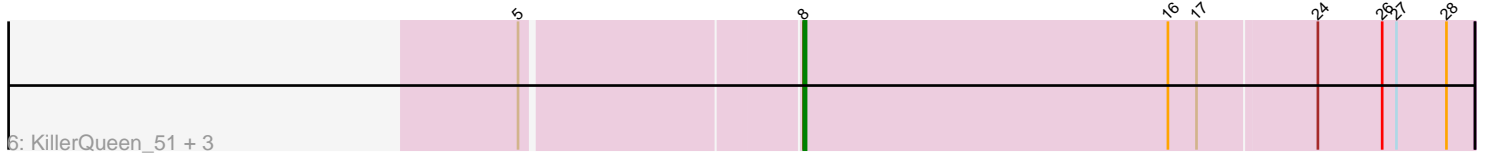
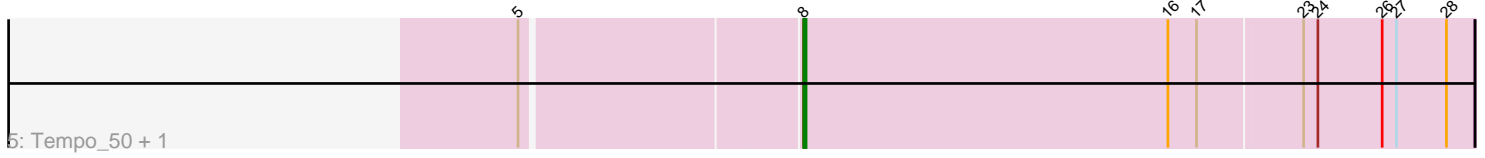
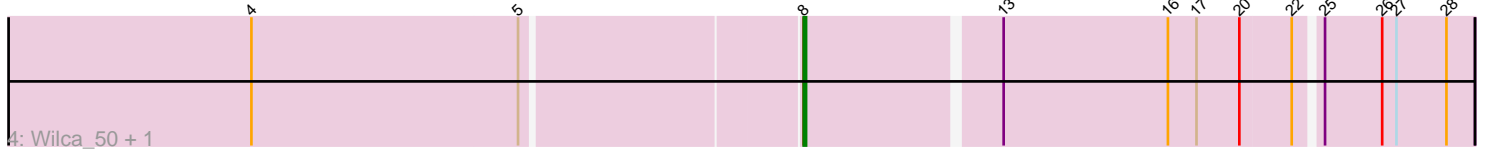
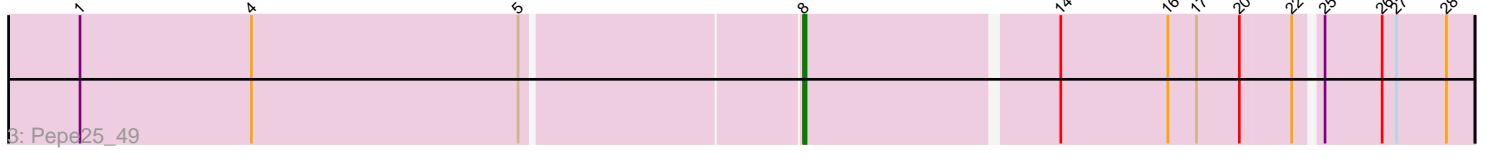
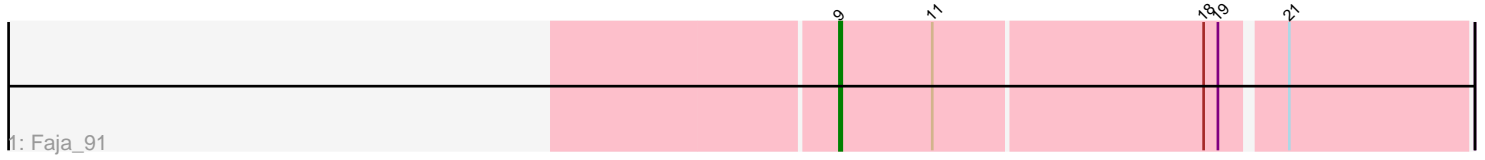


Pham 305396



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 305396 Report

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

Pham number 305396 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Faja\_91
- Track 2 : Globfish\_90
- Track 3 : Pepe25\_49
- Track 4 : Wilca\_50, BirdInFrench\_50
- Track 5 : Tempo\_50, Fregley\_51
- Track 6 : KillerQueen\_51, CandC\_49, Romm\_52, RobinRose\_52
- Track 7 : Kelcole\_49
- Track 8 : Marcie\_55
- Track 9 : OneinaGillian\_50
- Track 10 : Toodles\_61

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

The start number called the most often in the published annotations is 8, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BirdInFrench\_50, CandC\_49, Fregley\_51, Kelcole\_49, KillerQueen\_51, Marcie\_55, OneinaGillian\_50, Pepe25\_49, RobinRose\_52, Romm\_52, Tempo\_50, Wilca\_50,

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

- 

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

- Faja\_91, Globfish\_90, Toodles\_61,

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

Start 6:

- 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: Toodles\_61 (FF),

Start 8:

- Found in 12 of 15 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 11 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench\_50 (EG), CandC\_49 (EG), Fregley\_51 (EG), Kelcole\_49 (EG), KillerQueen\_51 (EG), Marcie\_55 (EG), OneinaGillian\_50 (EG), Pepe25\_49 (EG), RobinRose\_52 (EG), Romm\_52 (EG), Tempo\_50 (EG), Wilca\_50 (EG),

Start 9:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faja\_91 (AY), Globfish\_90 (AY),

**Summary by clusters:**

There are 3 clusters represented in this pham: AY, EG, FF,

Info for manual annotations of cluster AY:

- Start number 9 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster EG:

- Start number 8 was manually annotated 11 times for cluster EG.

**Gene Information:**

Gene: BirdInFrench\_50 Start: 35488, Stop: 35219, Start Num: 8

Candidate Starts for BirdInFrench\_50:

(4, 35710), (5, 35599), (Start: 8 @35488 has 11 MA's), (13, 35410), (16, 35341), (17, 35329), (20, 35311), (22, 35290), (25, 35281), (26, 35257), (27, 35251), (28, 35230),

Gene: CandC\_49 Start: 35861, Stop: 35583, Start Num: 8

Candidate Starts for CandC\_49:

(5, 35972), (Start: 8 @35861 has 11 MA's), (16, 35708), (17, 35696), (24, 35648), (26, 35621), (27, 35615), (28, 35594),

Gene: Faja\_91 Start: 50148, Stop: 50402, Start Num: 9

Candidate Starts for Faja\_91:

(Start: 9 @50148 has 2 MA's), (11, 50187), (18, 50298), (19, 50304), (21, 50328),

Gene: Fregley\_51 Start: 36422, Stop: 36144, Start Num: 8

Candidate Starts for Fregley\_51:

(5, 36533), (Start: 8 @36422 has 11 MA's), (16, 36269), (17, 36257), (23, 36215), (24, 36209), (26, 36182), (27, 36176), (28, 36155),

Gene: Globfish\_90 Start: 48891, Stop: 49145, Start Num: 9

Candidate Starts for Globfish\_90:

(Start: 9 @48891 has 2 MA's), (18, 49041), (19, 49047), (21, 49071),

Gene: Kelcole\_49 Start: 36313, Stop: 36035, Start Num: 8

Candidate Starts for Kelcole\_49:

(Start: 8 @36313 has 11 MA's), (16, 36160), (17, 36148), (23, 36106), (24, 36100), (26, 36073), (27, 36067), (28, 36046),

Gene: KillerQueen\_51 Start: 36305, Stop: 36027, Start Num: 8

Candidate Starts for KillerQueen\_51:

(5, 36416), (Start: 8 @36305 has 11 MA's), (16, 36152), (17, 36140), (24, 36092), (26, 36065), (27, 36059), (28, 36038),

Gene: Marcie\_55 Start: 36924, Stop: 36652, Start Num: 8

Candidate Starts for Marcie\_55:

(2, 37209), (3, 37194), (4, 37146), (5, 37035), (Start: 8 @36924 has 11 MA's), (10, 36894), (13, 36846), (16, 36777), (17, 36765), (24, 36717), (26, 36690), (27, 36684), (28, 36663),

Gene: OneinaGillian\_50 Start: 35958, Stop: 35680, Start Num: 8

Candidate Starts for OneinaGillian\_50:

(Start: 8 @35958 has 11 MA's), (16, 35805), (17, 35793), (23, 35751), (24, 35745), (26, 35718), (28, 35691),

Gene: Pepe25\_49 Start: 35500, Stop: 35231, Start Num: 8

Candidate Starts for Pepe25\_49:

(1, 35794), (4, 35722), (5, 35611), (Start: 8 @35500 has 11 MA's), (14, 35398), (16, 35353), (17, 35341), (20, 35323), (22, 35302), (25, 35293), (26, 35269), (27, 35263), (28, 35242),

Gene: RobinRose\_52 Start: 36467, Stop: 36189, Start Num: 8

Candidate Starts for RobinRose\_52:

(5, 36578), (Start: 8 @36467 has 11 MA's), (16, 36314), (17, 36302), (24, 36254), (26, 36227), (27, 36221), (28, 36200),

Gene: Romm\_52 Start: 36467, Stop: 36189, Start Num: 8

Candidate Starts for Romm\_52:

(5, 36578), (Start: 8 @36467 has 11 MA's), (16, 36314), (17, 36302), (24, 36254), (26, 36227), (27, 36221), (28, 36200),

Gene: Tempo\_50 Start: 36346, Stop: 36068, Start Num: 8

Candidate Starts for Tempo\_50:

(5, 36457), (Start: 8 @36346 has 11 MA's), (16, 36193), (17, 36181), (23, 36139), (24, 36133), (26, 36106), (27, 36100), (28, 36079),

Gene: Toodles\_61 Start: 39232, Stop: 39504, Start Num: 6

Candidate Starts for Toodles\_61:

(6, 39232), (7, 39250), (12, 39325), (15, 39361),

Gene: Wilca\_50 Start: 35488, Stop: 35219, Start Num: 8

Candidate Starts for Wilca\_50:

(4, 35710), (5, 35599), (Start: 8 @35488 has 11 MA's), (13, 35410), (16, 35341), (17, 35329), (20, 35311), (22, 35290), (25, 35281), (26, 35257), (27, 35251), (28, 35230),