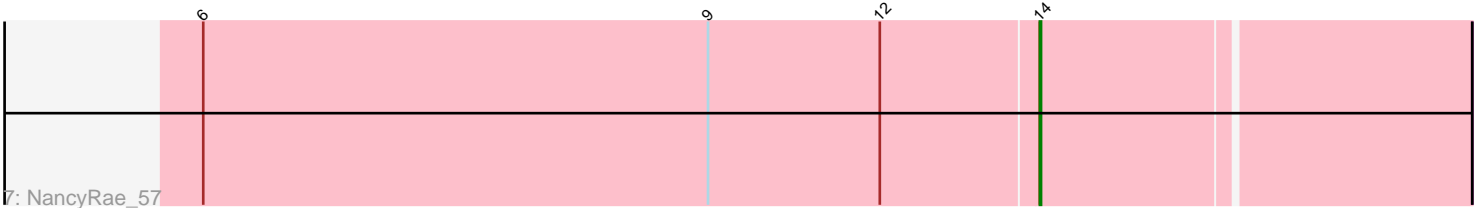
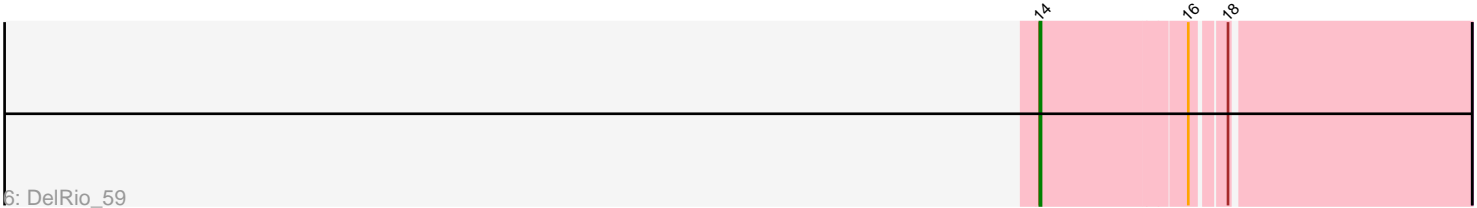
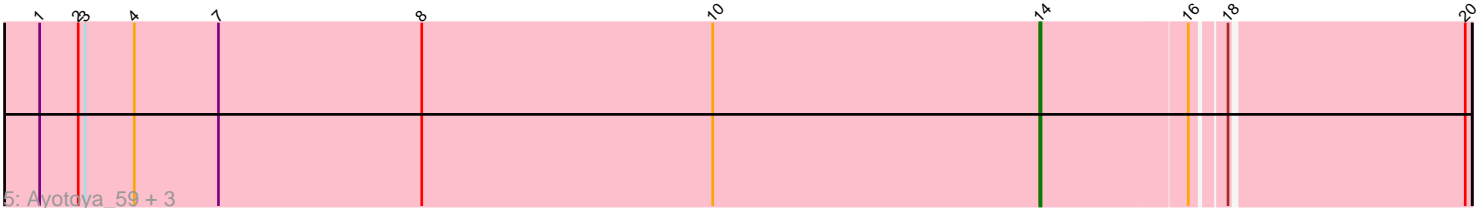
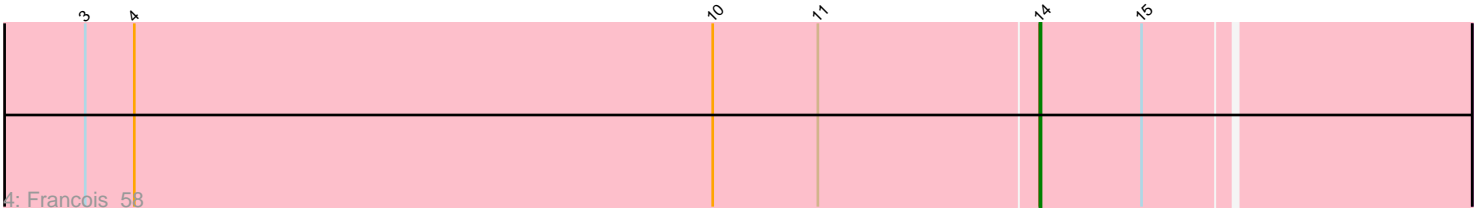
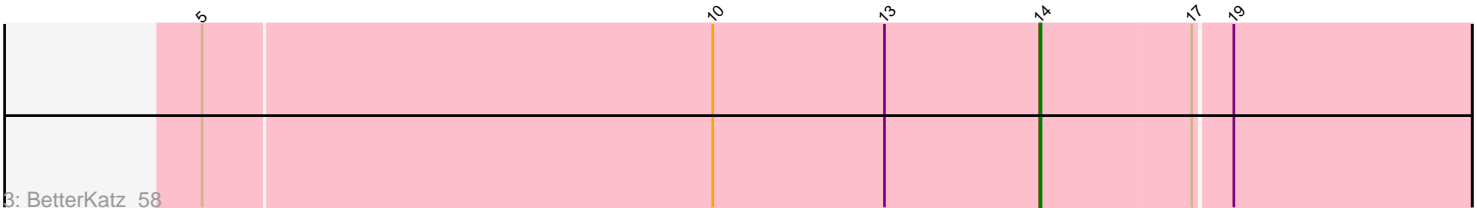
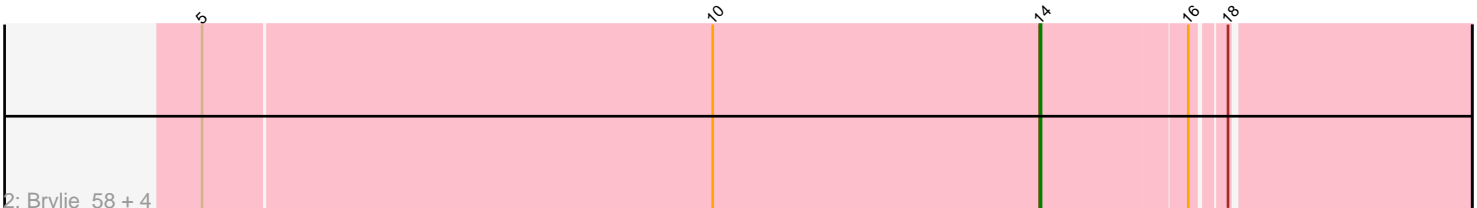
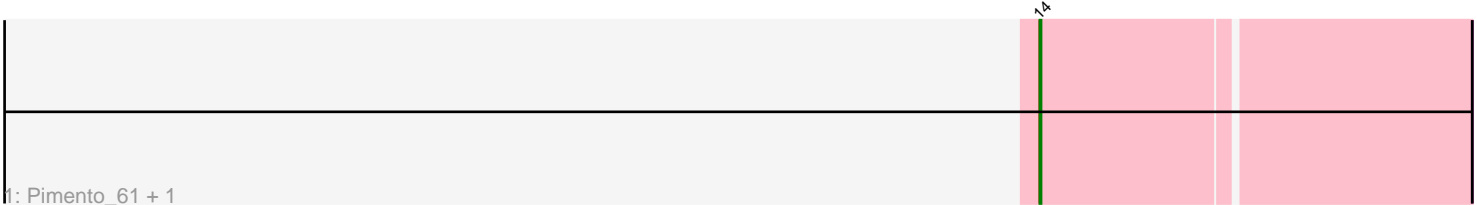


Pham 4660



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 4660 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4660 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Pimento\_61, Bock\_59
- Track 2 : Brylie\_58, Nadeem\_58, WheatThin\_57, Mulch\_58, Parada\_58
- Track 3 : BetterKatz\_58
- Track 4 : Francois\_58
- Track 5 : Ayotoya\_59, Hamood\_59, GrandSlam\_59, Chop\_59
- Track 6 : DelRio\_59
- Track 7 : NancyRae\_57

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

The start number called the most often in the published annotations is 14, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya\_59, BetterKatz\_58, Bock\_59, Brylie\_58, Chop\_59, DelRio\_59, Francois\_58, GrandSlam\_59, Hamood\_59, Mulch\_58, Nadeem\_58, NancyRae\_57, Parada\_58, Pimento\_61, WheatThin\_57,

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 14:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ayotoya\_59 (DI), BetterKatz\_58 (DI), Bock\_59 (DI), Brylie\_58 (DI), Chop\_59 (DI), DelRio\_59 (DI), Francois\_58 (DI), GrandSlam\_59 (DI), Hamood\_59 (DI), Mulch\_58 (DI), Nadeem\_58 (DI), NancyRae\_57 (DI), Parada\_58 (DI), Pimento\_61 (DI), WheatThin\_57 (DI),

## Summary by clusters:

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:

•Start number 14 was manually annotated 13 times for cluster DI.

### **Gene Information:**

Gene: Ayotoya\_59 Start: 40216, Stop: 40560, Start Num: 14

Candidate Starts for Ayotoya\_59:

(1, 39361), (2, 39394), (3, 39400), (4, 39442), (7, 39514), (8, 39688), (10, 39937), (Start: 14 @40216 has 13 MA's), (16, 40336), (18, 40360), (20, 40555),

Gene: BetterKatz\_58 Start: 39415, Stop: 39774, Start Num: 14

Candidate Starts for BetterKatz\_58:

(5, 38704), (10, 39136), (13, 39283), (Start: 14 @39415 has 13 MA's), (17, 39541), (19, 39571),

Gene: Bock\_59 Start: 39447, Stop: 39803, Start Num: 14

Candidate Starts for Bock\_59:

(Start: 14 @39447 has 13 MA's),

Gene: Brylie\_58 Start: 39196, Stop: 39540, Start Num: 14

Candidate Starts for Brylie\_58:

(5, 38485), (10, 38917), (Start: 14 @39196 has 13 MA's), (16, 39316), (18, 39340),

Gene: Chop\_59 Start: 39967, Stop: 40311, Start Num: 14

Candidate Starts for Chop\_59:

(1, 39112), (2, 39145), (3, 39151), (4, 39193), (7, 39265), (8, 39439), (10, 39688), (Start: 14 @39967 has 13 MA's), (16, 40087), (18, 40111), (20, 40306),

Gene: DelRio\_59 Start: 40377, Stop: 40721, Start Num: 14

Candidate Starts for DelRio\_59:

(Start: 14 @40377 has 13 MA's), (16, 40497), (18, 40521),

Gene: Francois\_58 Start: 39451, Stop: 39807, Start Num: 14

Candidate Starts for Francois\_58:

(3, 38638), (4, 38680), (10, 39175), (11, 39265), (Start: 14 @39451 has 13 MA's), (15, 39538),

Gene: GrandSlam\_59 Start: 39967, Stop: 40311, Start Num: 14

Candidate Starts for GrandSlam\_59:

(1, 39112), (2, 39145), (3, 39151), (4, 39193), (7, 39265), (8, 39439), (10, 39688), (Start: 14 @39967 has 13 MA's), (16, 40087), (18, 40111), (20, 40306),

Gene: Hamood\_59 Start: 39967, Stop: 40311, Start Num: 14

Candidate Starts for Hamood\_59:

(1, 39112), (2, 39145), (3, 39151), (4, 39193), (7, 39265), (8, 39439), (10, 39688), (Start: 14 @39967 has 13 MA's), (16, 40087), (18, 40111), (20, 40306),

Gene: Mulch\_58 Start: 39196, Stop: 39540, Start Num: 14

Candidate Starts for Mulch\_58:

(5, 38485), (10, 38917), (Start: 14 @39196 has 13 MA's), (16, 39316), (18, 39340),

Gene: Nadeem\_58 Start: 39184, Stop: 39528, Start Num: 14

Candidate Starts for Nadeem\_58:

(5, 38473), (10, 38905), (Start: 14 @39184 has 13 MA's), (16, 39304), (18, 39328),

Gene: NancyRae\_57 Start: 39182, Stop: 39538, Start Num: 14

Candidate Starts for NancyRae\_57:

(6, 38471), (9, 38903), (12, 39050), (Start: 14 @39182 has 13 MA's),

Gene: Parada\_58 Start: 39196, Stop: 39540, Start Num: 14

Candidate Starts for Parada\_58:

(5, 38485), (10, 38917), (Start: 14 @39196 has 13 MA's), (16, 39316), (18, 39340),

Gene: Pimento\_61 Start: 39094, Stop: 39450, Start Num: 14

Candidate Starts for Pimento\_61:

(Start: 14 @39094 has 13 MA's),

Gene: WheatThin\_57 Start: 39184, Stop: 39528, Start Num: 14

Candidate Starts for WheatThin\_57:

(5, 38473), (10, 38905), (Start: 14 @39184 has 13 MA's), (16, 39304), (18, 39328),