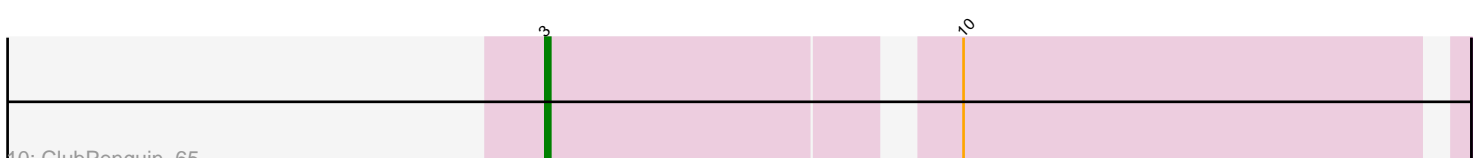
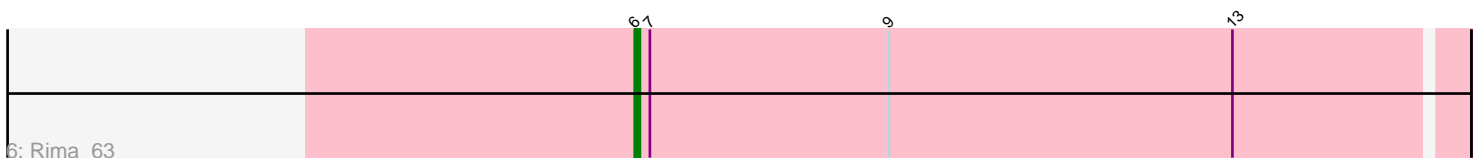
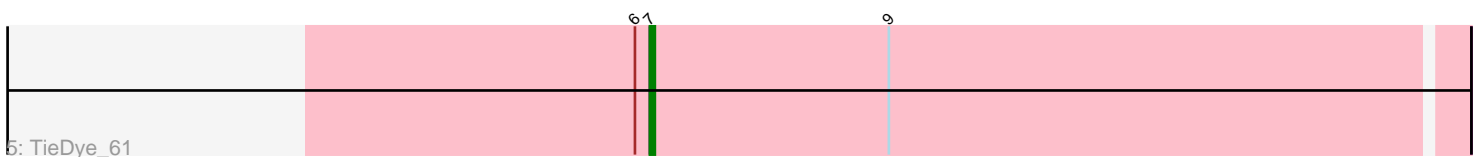
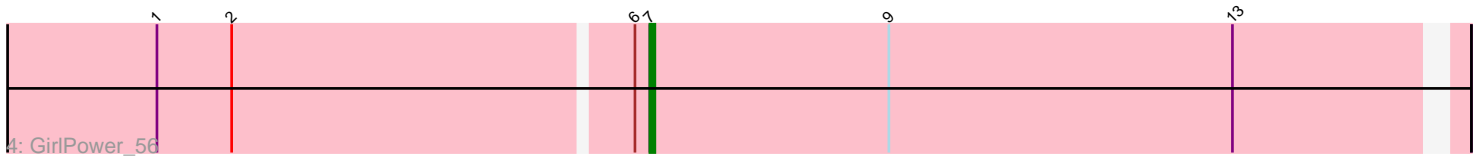
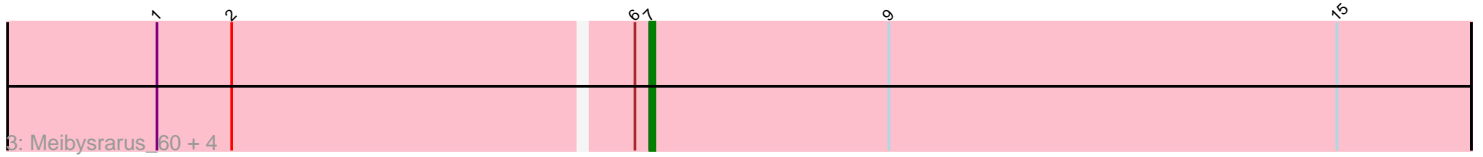
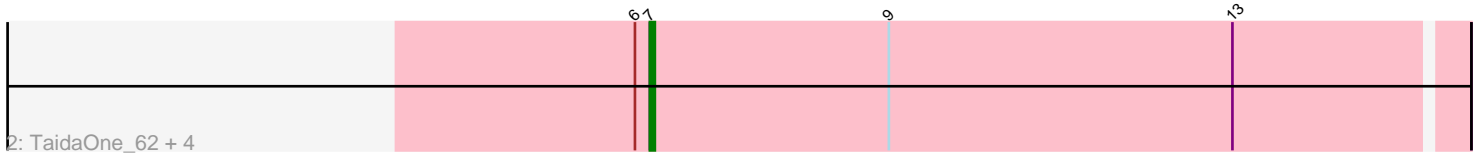
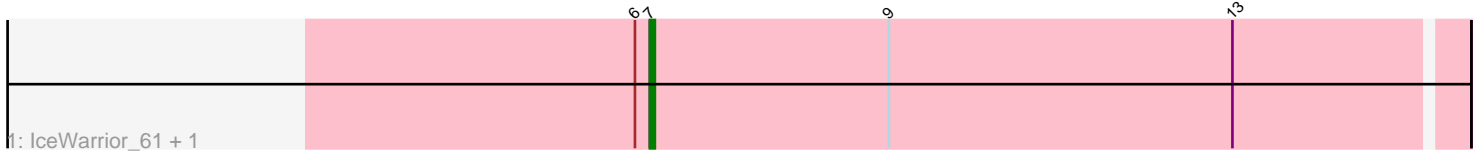


Pham 309313



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 309313 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309313 has 20 members, 0 are drafts.

Phages represented in each track:

- Track 1 : IceWarrior\_61, Namu\_63
- Track 2 : TaidaOne\_62, Indigenous\_62, FidgetOrca\_62, TonyStarch\_61, Hoshi\_61
- Track 3 : Meibysrarus\_60, Jaylociraptor\_62, CherryBlossom\_62, Maya\_62, Spectropatronm\_62
- Track 4 : GirlPower\_56
- Track 5 : TieDye\_61
- Track 6 : Rima\_63
- Track 7 : Esketit\_62
- Track 8 : RosaAsantewaa\_40
- Track 9 : Bing\_65, Wigberry\_64
- Track 10 : ClubPenguin\_65

### ***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 14 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryBlossom\_62, FidgetOrca\_62, GirlPower\_56, Hoshi\_61, IceWarrior\_61, Indigenous\_62, Jaylociraptor\_62, Maya\_62, Meibysrarus\_60, Namu\_63, Spectropatronm\_62, TaidaOne\_62, TieDye\_61, TonyStarch\_61,

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

- Esketit\_62, Rima\_63,

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

- Bing\_65, ClubPenguin\_65, RosaAsantewaa\_40, Wigberry\_64,

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

Start 3:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present

- Phage (with cluster) where this start called: ClubPenguin\_65 (BI7),

Start 4:

- Found in 2 of 20 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bing\_65 (BI5), Wigberry\_64 (BI5),

Start 5:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RosaAsantewaa\_40 (BI2),

Start 6:

- Found in 16 of 20 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Esketit\_62 (BI1), Rima\_63 (BI1),

Start 7:

- Found in 16 of 20 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 14 of 20
- Called 87.5% of time when present
- Phage (with cluster) where this start called: CherryBlossom\_62 (BI1), FidgetOrca\_62 (BI1), GirlPower\_56 (BI1), Hoshi\_61 (BI1), IceWarrior\_61 (BI1), Indigenous\_62 (BI1), Jaylociraptor\_62 (BI1), Maya\_62 (BI1), Meibysrurus\_60 (BI1), Namu\_63 (BI1), Spectropatronm\_62 (BI1), TaidaOne\_62 (BI1), TieDye\_61 (BI1), TonyStarch\_61 (BI1),

### **Summary by clusters:**

There are 4 clusters represented in this pham: BI7, BI5, BI2, BI1,

Info for manual annotations of cluster BI1:

- Start number 6 was manually annotated 2 times for cluster BI1.
- Start number 7 was manually annotated 14 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 5 was manually annotated 1 time for cluster BI2.

Info for manual annotations of cluster BI5:

- Start number 4 was manually annotated 2 times for cluster BI5.

Info for manual annotations of cluster BI7:

- Start number 3 was manually annotated 1 time for cluster BI7.

### **Gene Information:**

Gene: Bing\_65 Start: 43115, Stop: 43282, Start Num: 4

Candidate Starts for Bing\_65:

(Start: 4 @43115 has 2 MA's), (8, 43175), (14, 43256), (16, 43265), (17, 43271),

Gene: CherryBlossom\_62 Start: 42236, Stop: 42400, Start Num: 7

Candidate Starts for CherryBlossom\_62:

(1, 42140), (2, 42155), (Start: 6 @42233 has 2 MA's), (Start: 7 @42236 has 14 MA's), (9, 42284), (15, 42374),

Gene: ClubPenguin\_65 Start: 42538, Stop: 42708, Start Num: 3

Candidate Starts for ClubPenguin\_65:

(Start: 3 @42538 has 1 MA's), (10, 42613),

Gene: Esketit\_62 Start: 42376, Stop: 42543, Start Num: 6

Candidate Starts for Esketit\_62:

(1, 42283), (2, 42298), (Start: 6 @42376 has 2 MA's), (Start: 7 @42379 has 14 MA's), (9, 42427), (15, 42517),

Gene: FidgetOrca\_62 Start: 42372, Stop: 42533, Start Num: 7

Candidate Starts for FidgetOrca\_62:

(Start: 6 @42369 has 2 MA's), (Start: 7 @42372 has 14 MA's), (9, 42420), (13, 42489),

Gene: GirlPower\_56 Start: 42563, Stop: 42721, Start Num: 7

Candidate Starts for GirlPower\_56:

(1, 42467), (2, 42482), (Start: 6 @42560 has 2 MA's), (Start: 7 @42563 has 14 MA's), (9, 42611), (13, 42680),

Gene: Hoshi\_61 Start: 41979, Stop: 42140, Start Num: 7

Candidate Starts for Hoshi\_61:

(Start: 6 @41976 has 2 MA's), (Start: 7 @41979 has 14 MA's), (9, 42027), (13, 42096),

Gene: IceWarrior\_61 Start: 42058, Stop: 42219, Start Num: 7

Candidate Starts for IceWarrior\_61:

(Start: 6 @42055 has 2 MA's), (Start: 7 @42058 has 14 MA's), (9, 42106), (13, 42175),

Gene: Indigenous\_62 Start: 42376, Stop: 42537, Start Num: 7

Candidate Starts for Indigenous\_62:

(Start: 6 @42373 has 2 MA's), (Start: 7 @42376 has 14 MA's), (9, 42424), (13, 42493),

Gene: Jaylociraptor\_62 Start: 42372, Stop: 42536, Start Num: 7

Candidate Starts for Jaylociraptor\_62:

(1, 42276), (2, 42291), (Start: 6 @42369 has 2 MA's), (Start: 7 @42372 has 14 MA's), (9, 42420), (15, 42510),

Gene: Maya\_62 Start: 42386, Stop: 42550, Start Num: 7

Candidate Starts for Maya\_62:

(1, 42290), (2, 42305), (Start: 6 @42383 has 2 MA's), (Start: 7 @42386 has 14 MA's), (9, 42434), (15, 42524),

Gene: Meibysrarus\_60 Start: 41749, Stop: 41913, Start Num: 7

Candidate Starts for Meibysrarus\_60:

(1, 41653), (2, 41668), (Start: 6 @41746 has 2 MA's), (Start: 7 @41749 has 14 MA's), (9, 41797), (15, 41887),

Gene: Namo\_63 Start: 42726, Stop: 42887, Start Num: 7

Candidate Starts for Namu\_63:

(Start: 6 @42723 has 2 MA's), (Start: 7 @42726 has 14 MA's), (9, 42774), (13, 42843),

Gene: Rima\_63 Start: 42723, Stop: 42887, Start Num: 6

Candidate Starts for Rima\_63:

(Start: 6 @42723 has 2 MA's), (Start: 7 @42726 has 14 MA's), (9, 42774), (13, 42843),

Gene: RosaAsantewaa\_40 Start: 33286, Stop: 33447, Start Num: 5

Candidate Starts for RosaAsantewaa\_40:

(Start: 5 @33286 has 1 MA's), (8, 33343), (11, 33361), (12, 33364), (15, 33430),

Gene: Spectropatronm\_62 Start: 42379, Stop: 42543, Start Num: 7

Candidate Starts for Spectropatronm\_62:

(1, 42283), (2, 42298), (Start: 6 @42376 has 2 MA's), (Start: 7 @42379 has 14 MA's), (9, 42427), (15, 42517),

Gene: TaidaOne\_62 Start: 42885, Stop: 43046, Start Num: 7

Candidate Starts for TaidaOne\_62:

(Start: 6 @42882 has 2 MA's), (Start: 7 @42885 has 14 MA's), (9, 42933), (13, 43002),

Gene: TieDye\_61 Start: 41961, Stop: 42122, Start Num: 7

Candidate Starts for TieDye\_61:

(Start: 6 @41958 has 2 MA's), (Start: 7 @41961 has 14 MA's), (9, 42009),

Gene: TonyStarch\_61 Start: 42124, Stop: 42285, Start Num: 7

Candidate Starts for TonyStarch\_61:

(Start: 6 @42121 has 2 MA's), (Start: 7 @42124 has 14 MA's), (9, 42172), (13, 42241),

Gene: Wigberry\_64 Start: 42581, Stop: 42748, Start Num: 4

Candidate Starts for Wigberry\_64:

(Start: 4 @42581 has 2 MA's), (8, 42641), (14, 42722), (16, 42731), (17, 42737),