



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 272477 Report

This analysis was run 02/07/26 on database version 634.

Pham number 272477 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Imvubu\_76
- Track 2 : Zenteno07\_88
- Track 3 : BirdsNest\_88
- Track 4 : Thonko\_83
- Track 5 : Boilgate\_79
- Track 6 : Stellammi\_203
- Track 7 : Gaia\_180
- Track 8 : Nebkiss\_175

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

The start number called the most often in the published annotations is 6, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BirdsNest\_88, Boilgate\_79, Thonko\_83, Zenteno07\_88,

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

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

- Gaia\_180, Imvubu\_76, Nebkiss\_175, Stellammi\_203,

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

Start 4:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nebkiss\_175 (X),

Start 6:

- Found in 4 of 8 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 7

- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest\_88 (B13), Boilgate\_79 (K8), Thonko\_83 (B8), Zenteno07\_88 (B13),

Start 7:

- Found in 3 of 8 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Gaia\_180 (X), Stellammi\_203 (UNK),

Start 8:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Imvubu\_76 (B10),

### **Summary by clusters:**

There are 6 clusters represented in this pham: UNK, B13, B10, X, K8, B8,

Info for manual annotations of cluster B10:

- Start number 8 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B13:

- Start number 6 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B8:

- Start number 6 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster K8:

- Start number 6 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster X:

- Start number 4 was manually annotated 1 time for cluster X.
- Start number 7 was manually annotated 1 time for cluster X.

### **Gene Information:**

Gene: BirdsNest\_88 Start: 64901, Stop: 64701, Start Num: 6

Candidate Starts for BirdsNest\_88:

(Start: 6 @64901 has 4 MA's),

Gene: Boilgate\_79 Start: 55875, Stop: 56075, Start Num: 6

Candidate Starts for Boilgate\_79:

(1, 55788), (2, 55803), (Start: 6 @55875 has 4 MA's),

Gene: Gaia\_180 Start: 88497, Stop: 88309, Start Num: 7

Candidate Starts for Gaia\_180:

(Start: 4 @88536 has 1 MA's), (5, 88533), (Start: 7 @88497 has 1 MA's),

Gene: Imvubu\_76 Start: 61150, Stop: 60977, Start Num: 8

Candidate Starts for Imvubu\_76:

(Start: 8 @61150 has 1 MA's),

Gene: Nebkiss\_175 Start: 83689, Stop: 83462, Start Num: 4

Candidate Starts for Nebkiss\_175:

(Start: 4 @83689 has 1 MA's), (5, 83686), (Start: 7 @83650 has 1 MA's),

Gene: Stellammi\_203 Start: 86596, Stop: 86411, Start Num: 7

Candidate Starts for Stellammi\_203:

(Start: 7 @86596 has 1 MA's),

Gene: Thonko\_83 Start: 62167, Stop: 61967, Start Num: 6

Candidate Starts for Thonko\_83:

(3, 62221), (Start: 6 @62167 has 4 MA's),

Gene: Zenteno07\_88 Start: 64544, Stop: 64344, Start Num: 6

Candidate Starts for Zenteno07\_88:

(Start: 6 @64544 has 4 MA's), (9, 64502), (10, 64496), (11, 64484),