



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 88466 Report

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

Pham number 88466 has 5 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Phabuloso\_77
- Track 2 : CheeseTouch\_76, Horus\_73
- Track 3 : Spooky\_70
- Track 4 : Kuwabara\_73

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

The start number called the most often in the published annotations is 11, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Phabuloso\_77, Spooky\_70,

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

- Kuwabara\_73,

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

- CheeseTouch\_76, Horus\_73,

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

Start 10:

- Found in 2 of 5 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kuwabara\_73 (DN4),

Start 11:

- Found in 3 of 5 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Phabuloso\_77 (DN1), Spooky\_70 (DN2),

Start 12:

- Found in 2 of 5 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CheeseTouch\_76 (DN1), Horus\_73 (DN1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DN4, DN1, DN2,

Info for manual annotations of cluster DN1:

- Start number 11 was manually annotated 1 time for cluster DN1.
- Start number 12 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 11 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN4:

- Start number 10 was manually annotated 1 time for cluster DN4.

### **Gene Information:**

Gene: CheeseTouch\_76 Start: 39918, Stop: 40199, Start Num: 12

Candidate Starts for CheeseTouch\_76:

(Start: 12 @39918 has 2 MA's), (14, 39978), (15, 40041), (16, 40044), (17, 40143), (18, 40173), (19, 40182), (20, 40185),

Gene: Horus\_73 Start: 44810, Stop: 45091, Start Num: 12

Candidate Starts for Horus\_73:

(Start: 12 @44810 has 2 MA's), (14, 44870), (15, 44933), (16, 44936), (17, 45035), (18, 45065), (19, 45074), (20, 45077),

Gene: Kuwabara\_73 Start: 44536, Stop: 44856, Start Num: 10

Candidate Starts for Kuwabara\_73:

(1, 44194), (3, 44299), (5, 44350), (6, 44368), (9, 44509), (Start: 10 @44536 has 1 MA's), (Start: 11 @44566 has 2 MA's), (13, 44617), (16, 44701), (17, 44800), (18, 44830), (19, 44839), (20, 44842),

Gene: Phabuloso\_77 Start: 44325, Stop: 44615, Start Num: 11

Candidate Starts for Phabuloso\_77:

(8, 44190), (9, 44268), (Start: 10 @44295 has 1 MA's), (Start: 11 @44325 has 2 MA's), (13, 44376), (15, 44457), (16, 44460), (17, 44559), (18, 44589), (19, 44598), (20, 44601),

Gene: Spooky\_70 Start: 42586, Stop: 42876, Start Num: 11

Candidate Starts for Spooky\_70:

(1, 42214), (2, 42262), (4, 42325), (6, 42388), (7, 42409), (9, 42529), (Start: 11 @42586 has 2 MA's), (13, 42637), (15, 42718), (16, 42721), (17, 42820), (18, 42850), (19, 42859), (20, 42862),