



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 88008 Report

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

Pham number 88008 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : DrGrey\_63, FrodoSwaggins\_65
- Track 2 : TieDye\_65, TaidaOne\_70
- Track 3 : OlympicHelado\_70
- Track 4 : Soshi\_65
- Track 5 : Popy\_65

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

The start number called the most often in the published annotations is 2, it was called in 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Soshi\_65, TaidaOne\_70, TieDye\_65,

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

- DrGrey\_63, FrodoSwaggins\_65, OlympicHelado\_70, Popy\_65,

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

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

Start 1:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 42.9% of time when present
- Phage (with cluster) where this start called: DrGrey\_63 (B11), FrodoSwaggins\_65 (B11), OlympicHelado\_70 (B11),

Start 2:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 42.9% of time when present

- Phage (with cluster) where this start called: Soshi\_65 (BI1), TaidaOne\_70 (BI1), TieDye\_65 (BI1),

Start 3:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Popy\_65 (BI1),

### **Summary by clusters:**

There is one cluster represented in this pham: BI1

Info for manual annotations of cluster BI1:

- Start number 1 was manually annotated 3 times for cluster BI1.
- Start number 2 was manually annotated 3 times for cluster BI1.
- Start number 3 was manually annotated 1 time for cluster BI1.

### **Gene Information:**

Gene: DrGrey\_63 Start: 43792, Stop: 44184, Start Num: 1

Candidate Starts for DrGrey\_63:

(Start: 1 @43792 has 3 MA's), (Start: 2 @43795 has 3 MA's), (Start: 3 @43867 has 1 MA's), (4, 43945), (5, 44152),

Gene: FrodoSwaggins\_65 Start: 44186, Stop: 44578, Start Num: 1

Candidate Starts for FrodoSwaggins\_65:

(Start: 1 @44186 has 3 MA's), (Start: 2 @44189 has 3 MA's), (Start: 3 @44261 has 1 MA's), (4, 44339), (5, 44546),

Gene: OlympicHelado\_70 Start: 44431, Stop: 44823, Start Num: 1

Candidate Starts for OlympicHelado\_70:

(Start: 1 @44431 has 3 MA's), (Start: 2 @44434 has 3 MA's), (Start: 3 @44506 has 1 MA's), (4, 44584), (5, 44791),

Gene: Popy\_65 Start: 44261, Stop: 44578, Start Num: 3

Candidate Starts for Popy\_65:

(Start: 1 @44186 has 3 MA's), (Start: 2 @44189 has 3 MA's), (Start: 3 @44261 has 1 MA's), (4, 44339), (5, 44546),

Gene: Soshi\_65 Start: 44021, Stop: 44410, Start Num: 2

Candidate Starts for Soshi\_65:

(Start: 1 @44018 has 3 MA's), (Start: 2 @44021 has 3 MA's), (Start: 3 @44093 has 1 MA's), (4, 44171), (5, 44378),

Gene: TaidaOne\_70 Start: 44880, Stop: 45269, Start Num: 2

Candidate Starts for TaidaOne\_70:

(Start: 1 @44877 has 3 MA's), (Start: 2 @44880 has 3 MA's), (Start: 3 @44952 has 1 MA's), (4, 45030), (5, 45237),

Gene: TieDye\_65 Start: 43305, Stop: 43694, Start Num: 2

Candidate Starts for TieDye\_65:

(Start: 1 @43302 has 3 MA's), (Start: 2 @43305 has 3 MA's), (Start: 3 @43377 has 1 MA's), (4, 43455), (5, 43662),