



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 303811 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303811 has 12 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Percival\_38, Forester\_37, Gretchen\_38, SuperHands\_37
- Track 2 : Barnstormer\_35, UtzChips\_35
- Track 3 : Caron\_38
- Track 4 : SuMoo\_35, Mabodamaca\_35
- Track 5 : GardenState\_38, IAmGroot\_38
- Track 6 : Floof\_38

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barnstormer\_35, Caron\_38, Floof\_38, Forester\_37, GardenState\_38, Gretchen\_38, IAmGroot\_38, Percival\_38, SuperHands\_37, UtzChips\_35,

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:

- Mabodamaca\_35, SuMoo\_35,

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

Start 3:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 10 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer\_35 (EH), Caron\_38 (EH), Floof\_38 (EH), Forester\_37 (EH), GardenState\_38 (EH), Gretchen\_38 (EH), IAmGroot\_38 (EH), Percival\_38 (EH), SuperHands\_37 (EH), UtzChips\_35 (EH),

Start 4:

- Found in 2 of 12 ( 16.7% ) of genes in pham

- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mabodamaca\_35 (EH), SuMoo\_35 (EH),

### **Summary by clusters:**

There is one cluster represented in this pham: EH

Info for manual annotations of cluster EH:

- Start number 3 was manually annotated 10 times for cluster EH.
- Start number 4 was manually annotated 2 times for cluster EH.

### **Gene Information:**

Gene: Barnstormer\_35 Start: 24679, Stop: 24924, Start Num: 3

Candidate Starts for Barnstormer\_35:

(1, 24565), (Start: 3 @24679 has 10 MA's), (7, 24856),

Gene: Caron\_38 Start: 25164, Stop: 25409, Start Num: 3

Candidate Starts for Caron\_38:

(1, 25050), (Start: 3 @25164 has 10 MA's),

Gene: Floof\_38 Start: 25665, Stop: 25910, Start Num: 3

Candidate Starts for Floof\_38:

(2, 25593), (Start: 3 @25665 has 10 MA's), (5, 25791), (6, 25803), (8, 25899),

Gene: Forester\_37 Start: 27094, Stop: 27339, Start Num: 3

Candidate Starts for Forester\_37:

(Start: 3 @27094 has 10 MA's),

Gene: GardenState\_38 Start: 25346, Stop: 25567, Start Num: 3

Candidate Starts for GardenState\_38:

(Start: 3 @25346 has 10 MA's),

Gene: Gretchen\_38 Start: 26776, Stop: 27021, Start Num: 3

Candidate Starts for Gretchen\_38:

(Start: 3 @26776 has 10 MA's),

Gene: IAmGroot\_38 Start: 26011, Stop: 26232, Start Num: 3

Candidate Starts for IAmGroot\_38:

(Start: 3 @26011 has 10 MA's),

Gene: Mabodamaca\_35 Start: 25059, Stop: 25295, Start Num: 4

Candidate Starts for Mabodamaca\_35:

(Start: 4 @25059 has 2 MA's),

Gene: Percival\_38 Start: 26610, Stop: 26855, Start Num: 3

Candidate Starts for Percival\_38:

(Start: 3 @26610 has 10 MA's),

Gene: SuMoo\_35 Start: 24005, Stop: 24241, Start Num: 4

Candidate Starts for SuMoo\_35:  
(Start: 4 @24005 has 2 MA's),

Gene: SuperHands\_37 Start: 27113, Stop: 27358, Start Num: 3  
Candidate Starts for SuperHands\_37:  
(Start: 3 @27113 has 10 MA's),

Gene: UtzChips\_35 Start: 24664, Stop: 24909, Start Num: 3  
Candidate Starts for UtzChips\_35:  
(1, 24550), (Start: 3 @24664 has 10 MA's), (7, 24841),