



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 280940 Report

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

Pham number 280940 has 18 members, 6 are drafts.

Phages represented in each track:

- Track 1 : ThursdayNight\_8
- Track 2 : DrManhattan\_9, MissSwiss\_9
- Track 3 : Sue2\_9
- Track 4 : Adolin\_9
- Track 5 : Liebe\_8, Maureen\_8, IUFootball\_8, MaGuCo\_8
- Track 6 : Tweety19\_9, Snek\_9
- Track 7 : JohnThicc\_8, Origami\_8, FiveHead\_8, LadyAstra\_8
- Track 8 : JasmineDragon\_8, ShakeltOph\_8
- Track 9 : VroomVroom\_8

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

The start number called the most often in the published annotations is 4, it was called in 6 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adolin\_9, DrManhattan\_9, FiveHead\_8, JasmineDragon\_8, JohnThicc\_8, LadyAstra\_8, MissSwiss\_9, Origami\_8, ShakeltOph\_8, VroomVroom\_8,

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:

- IUFootball\_8, Liebe\_8, MaGuCo\_8, Maureen\_8, Snek\_9, Sue2\_9, ThursdayNight\_8, Tweety19\_9,

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

Start 1:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sue2\_9 (AZ1),

#### Start 2:

- Found in 5 of 18 ( 27.8% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IUFootball\_8 (AZ2), Liebe\_8 (AZ2), MaGuCo\_8 (AZ2), Maureen\_8 (AZ2), ThursdayNight\_8 (AZ),

#### Start 3:

- Found in 2 of 18 ( 11.1% ) 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: Sneak\_9 (AZ3), Tweety19\_9 (AZ3),

#### Start 4:

- Found in 10 of 18 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 6 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin\_9 (AZ1), DrManhattan\_9 (AZ1), FiveHead\_8 (AZ4), JasmineDragon\_8 (AZ4), JohnThicc\_8 (AZ4), LadyAstra\_8 (AZ4), MissSwiss\_9 (AZ1), Origami\_8 (AZ4), ShakeltOph\_8 (AZ4), VroomVroom\_8 (AZ4),

### **Summary by clusters:**

There are 5 clusters represented in this pham: AZ1, AZ2, AZ3, AZ4, AZ,

#### Info for manual annotations of cluster AZ1:

- Start number 1 was manually annotated 1 time for cluster AZ1.
- Start number 4 was manually annotated 3 times for cluster AZ1.

#### Info for manual annotations of cluster AZ2:

- Start number 2 was manually annotated 3 times for cluster AZ2.

#### Info for manual annotations of cluster AZ3:

- Start number 3 was manually annotated 2 times for cluster AZ3.

#### Info for manual annotations of cluster AZ4:

- Start number 4 was manually annotated 3 times for cluster AZ4.

### **Gene Information:**

Gene: Adolin\_9 Start: 8255, Stop: 8371, Start Num: 4

Candidate Starts for Adolin\_9:

(Start: 4 @8255 has 6 MA's),

Gene: DrManhattan\_9 Start: 8245, Stop: 8361, Start Num: 4

Candidate Starts for DrManhattan\_9:

(Start: 4 @8245 has 6 MA's),

Gene: FiveHead\_8 Start: 6566, Stop: 6658, Start Num: 4

Candidate Starts for FiveHead\_8:

(Start: 4 @6566 has 6 MA's), (6, 6593),

Gene: IUFootball\_8 Start: 6731, Stop: 6844, Start Num: 2

Candidate Starts for IUFootball\_8:

(Start: 2 @6731 has 3 MA's), (5, 6749),

Gene: JasmineDragon\_8 Start: 6570, Stop: 6671, Start Num: 4

Candidate Starts for JasmineDragon\_8:

(Start: 4 @6570 has 6 MA's),

Gene: JohnThicc\_8 Start: 6566, Stop: 6658, Start Num: 4

Candidate Starts for JohnThicc\_8:

(Start: 4 @6566 has 6 MA's), (6, 6593),

Gene: LadyAstra\_8 Start: 6566, Stop: 6658, Start Num: 4

Candidate Starts for LadyAstra\_8:

(Start: 4 @6566 has 6 MA's), (6, 6593),

Gene: Liebe\_8 Start: 6731, Stop: 6844, Start Num: 2

Candidate Starts for Liebe\_8:

(Start: 2 @6731 has 3 MA's), (5, 6749),

Gene: MaGuCo\_8 Start: 6590, Stop: 6703, Start Num: 2

Candidate Starts for MaGuCo\_8:

(Start: 2 @6590 has 3 MA's), (5, 6608),

Gene: Maureen\_8 Start: 6731, Stop: 6844, Start Num: 2

Candidate Starts for Maureen\_8:

(Start: 2 @6731 has 3 MA's), (5, 6749),

Gene: MissSwiss\_9 Start: 8258, Stop: 8365, Start Num: 4

Candidate Starts for MissSwiss\_9:

(Start: 4 @8258 has 6 MA's),

Gene: Origami\_8 Start: 6566, Stop: 6658, Start Num: 4

Candidate Starts for Origami\_8:

(Start: 4 @6566 has 6 MA's), (6, 6593),

Gene: ShakeltOph\_8 Start: 6570, Stop: 6671, Start Num: 4

Candidate Starts for ShakeltOph\_8:

(Start: 4 @6570 has 6 MA's),

Gene: Snek\_9 Start: 7366, Stop: 7482, Start Num: 3

Candidate Starts for Snek\_9:

(Start: 3 @7366 has 2 MA's),

Gene: Sue2\_9 Start: 8280, Stop: 8396, Start Num: 1

Candidate Starts for Sue2\_9:

(Start: 1 @8280 has 1 MA's),

Gene: ThursdayNight\_8 Start: 6783, Stop: 6902, Start Num: 2

Candidate Starts for ThursdayNight\_8:

(Start: 2 @6783 has 3 MA's), (5, 6801),

Gene: Tweety19\_9 Start: 7365, Stop: 7481, Start Num: 3  
Candidate Starts for Tweety19\_9:  
(Start: 3 @7365 has 2 MA's),

Gene: VroomVroom\_8 Start: 6582, Stop: 6683, Start Num: 4  
Candidate Starts for VroomVroom\_8:  
(Start: 4 @6582 has 6 MA's), (7, 6639),