



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 266947 Report

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

Pham number 266947 has 9 members, 4 are drafts.

Phages represented in each track:

- Track 1 : FiveHead\_41, JohnThicc\_40, Origami\_39, LadyAstra\_39
- Track 2 : MiniMommy\_36, ShakeltOph\_37, JasmineDragon\_37
- Track 3 : Emotion\_36
- Track 4 : VroomVroom\_37

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

The start number called the most often in the published annotations is 10, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- JasmineDragon\_37, MiniMommy\_36, ShakeltOph\_37,

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:

- Emotion\_36, FiveHead\_41, JohnThicc\_40, LadyAstra\_39, Origami\_39, VroomVroom\_37,

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

Start 8:

- Found in 5 of 9 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emotion\_36 (AZ4), FiveHead\_41 (AZ4), JohnThicc\_40 (AZ4), LadyAstra\_39 (AZ4), Origami\_39 (AZ4),

Start 9:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: VroomVroom\_37 (AZ4),

Start 10:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JasmineDragon\_37 (AZ4), MiniMommy\_36 (AZ4), ShakeltOph\_37 (AZ4),

### **Summary by clusters:**

There is one cluster represented in this pham: AZ4

Info for manual annotations of cluster AZ4:

- Start number 8 was manually annotated 1 time for cluster AZ4.
- Start number 9 was manually annotated 1 time for cluster AZ4.
- Start number 10 was manually annotated 3 times for cluster AZ4.

### **Gene Information:**

Gene: Emotion\_36 Start: 25935, Stop: 26117, Start Num: 8

Candidate Starts for Emotion\_36:

(4, 25440), (5, 25743), (Start: 8 @25935 has 1 MA's), (16, 26004), (20, 26076), (21, 26091),

Gene: FiveHead\_41 Start: 26141, Stop: 26347, Start Num: 8

Candidate Starts for FiveHead\_41:

(1, 25415), (2, 25556), (3, 25604), (4, 25631), (Start: 8 @26141 has 1 MA's), (11, 26153), (13, 26192), (14, 26195), (16, 26222), (19, 26282),

Gene: JasmineDragon\_37 Start: 26049, Stop: 26249, Start Num: 10

Candidate Starts for JasmineDragon\_37:

(6, 25989), (7, 26001), (Start: 10 @26049 has 3 MA's), (15, 26127), (17, 26166), (18, 26178),

Gene: JohnThicc\_40 Start: 26141, Stop: 26347, Start Num: 8

Candidate Starts for JohnThicc\_40:

(1, 25415), (2, 25556), (3, 25604), (4, 25631), (Start: 8 @26141 has 1 MA's), (11, 26153), (13, 26192), (14, 26195), (16, 26222), (19, 26282),

Gene: LadyAstra\_39 Start: 26083, Stop: 26289, Start Num: 8

Candidate Starts for LadyAstra\_39:

(1, 25357), (2, 25498), (3, 25546), (4, 25573), (Start: 8 @26083 has 1 MA's), (11, 26095), (13, 26134), (14, 26137), (16, 26164), (19, 26224),

Gene: MiniMommy\_36 Start: 26050, Stop: 26250, Start Num: 10

Candidate Starts for MiniMommy\_36:

(6, 25990), (7, 26002), (Start: 10 @26050 has 3 MA's), (15, 26128), (17, 26167), (18, 26179),

Gene: Origami\_39 Start: 26083, Stop: 26289, Start Num: 8

Candidate Starts for Origami\_39:

(1, 25357), (2, 25498), (3, 25546), (4, 25573), (Start: 8 @26083 has 1 MA's), (11, 26095), (13, 26134), (14, 26137), (16, 26164), (19, 26224),

Gene: ShakeltOph\_37 Start: 26049, Stop: 26249, Start Num: 10

Candidate Starts for ShakeltOph\_37:

(6, 25989), (7, 26001), (Start: 10 @26049 has 3 MA's), (15, 26127), (17, 26166), (18, 26178),

Gene: VroomVroom\_37 Start: 26147, Stop: 26347, Start Num: 9

Candidate Starts for VroomVroom\_37:

(Start: 9 @26147 has 1 MA's), (12, 26195), (14, 26201), (16, 26228), (18, 26276),