

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 225251 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225251 has 6 members, 4 are drafts.

Phages represented in each track:

Track 1 : AinMach\_22

Track 2 : ShakeltOph\_22, JasmineDragon\_21

Track 3 : Emotion\_21Track 4 : LadyAstra\_22Track 5 : MiniMommy\_21

# 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 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Emotion\_21, JasmineDragon\_21, LadyAstra\_22, MiniMommy\_21, ShakeItOph\_22,

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:

AinMach 22,

## Summary by start number:

#### Start 2:

- Found in 1 of 6 (16.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AinMach\_22 (AZ),

#### Start 3:

- Found in 5 of 6 (83.3%) of genes in pham
- Manual Annotations of this start: 2 of 2
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emotion\_21 (AZ4), JasmineDragon\_21 (AZ4), LadyAstra\_22 (AZ4), MiniMommy\_21 (AZ4), ShakeItOph\_22 (AZ4),

### Summary by clusters:

There are 2 clusters represented in this pham: AZ, AZ4,

Info for manual annotations of cluster AZ4:

•Start number 3 was manually annotated 2 times for cluster AZ4.

#### Gene Information:

Gene: AinMach\_22 Start: 19325, Stop: 20020, Start Num: 2

Candidate Starts for AinMach\_22:

(1, 19166), (2, 19325), (5, 19394), (8, 19472), (10, 19535), (13, 19769), (14, 19784), (15, 19841), (17, 19859),

Gene: Emotion\_21 Start: 18355, Stop: 19074, Start Num: 3

Candidate Starts for Emotion\_21:

(Start: 3 @18355 has 2 MA's), (6, 18430), (13, 18796), (20, 19015),

Gene: JasmineDragon\_21 Start: 17763, Stop: 18488, Start Num: 3

Candidate Starts for JasmineDragon 21:

(Start: 3 @ 17763 has 2 MA's), (4, 17820), (6, 17838), (8, 17907), (9, 17952), (13, 18204), (16, 18321), (18, 18378),

Gene: LadyAstra\_22 Start: 17767, Stop: 18492, Start Num: 3

Candidate Starts for LadyAstra\_22:

(Start: 3 @ 17767 has 2 MA's), (6, 17839), (7, 17884), (8, 17908), (9, 17953), (11, 18097), (12, 18139), (13, 18205), (16, 18313), (18, 18370), (19, 18418),

Gene: MiniMommy 21 Start: 17764, Stop: 18489, Start Num: 3

Candidate Starts for MiniMommy\_21:

(Start: 3 @17764 has 2 MA's), (4, 17821), (6, 17839), (7, 17884), (8, 17908), (9, 17953), (11, 18097), (12, 18139), (13, 18205), (16, 18322), (18, 18379),

Gene: ShakeltOph\_22 Start: 17763, Stop: 18488, Start Num: 3

Candidate Starts for ShakeltOph 22:

(Start: 3 @ 17763 has 2 MA's), (4, 17820), (6, 17838), (8, 17907), (9, 17952), (13, 18204), (16, 18321), (18, 18378),