



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 309524 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309524 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Eraser\_55, Asa16\_55, London\_55, Niobe\_55, Skelbel\_56
- Track 2 : Amyev\_56
- Track 3 : Iter\_57, Ascela\_57
- Track 4 : Adolin\_57, DrManhattan\_57
- Track 5 : DrSierra\_53
- Track 6 : MissSwiss\_56, PandaPo\_56
- Track 7 : Tian\_55
- Track 8 : Berrie\_55

### ***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 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amyev\_56, Asa16\_55, Ascela\_57, Berrie\_55, Eraser\_55, Iter\_57, London\_55, Niobe\_55, Skelbel\_56, Tian\_55,

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

- 

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

- Adolin\_57, DrManhattan\_57, DrSierra\_53, MissSwiss\_56, PandaPo\_56,

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

Start 2:

- Found in 10 of 15 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 8 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amyev\_56 (AZ1), Asa16\_55 (AZ1), Ascela\_57 (AZ1), Berrie\_55 (AZ1), Eraser\_55 (AZ1), Iter\_57 (AZ1), London\_55 (AZ1), Niobe\_55 (AZ1), Skelbel\_56 (AZ1), Tian\_55 (AZ1),

Start 3:

- Found in 5 of 15 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin\_57 (AZ1), DrManhattan\_57 (AZ1), DrSierra\_53 (AZ1), MissSwiss\_56 (AZ1), PandaPo\_56 (AZ1),

### **Summary by clusters:**

There is one cluster represented in this pham: AZ1

Info for manual annotations of cluster AZ1:

- Start number 2 was manually annotated 8 times for cluster AZ1.
- Start number 3 was manually annotated 4 times for cluster AZ1.

### **Gene Information:**

Gene: Adolin\_57 Start: 37241, Stop: 37465, Start Num: 3

Candidate Starts for Adolin\_57:

(Start: 3 @37241 has 4 MA's),

Gene: Amyev\_56 Start: 40609, Stop: 40833, Start Num: 2

Candidate Starts for Amyev\_56:

(Start: 2 @40609 has 8 MA's),

Gene: Asa16\_55 Start: 39306, Stop: 39530, Start Num: 2

Candidate Starts for Asa16\_55:

(Start: 2 @39306 has 8 MA's),

Gene: Ascela\_57 Start: 38762, Stop: 38992, Start Num: 2

Candidate Starts for Ascela\_57:

(Start: 2 @38762 has 8 MA's), (4, 38927), (5, 38936),

Gene: Berrie\_55 Start: 38569, Stop: 38805, Start Num: 2

Candidate Starts for Berrie\_55:

(Start: 2 @38569 has 8 MA's),

Gene: DrManhattan\_57 Start: 36809, Stop: 37033, Start Num: 3

Candidate Starts for DrManhattan\_57:

(Start: 3 @36809 has 4 MA's),

Gene: DrSierra\_53 Start: 36987, Stop: 37208, Start Num: 3

Candidate Starts for DrSierra\_53:

(Start: 3 @36987 has 4 MA's),

Gene: Eraser\_55 Start: 39313, Stop: 39537, Start Num: 2

Candidate Starts for Eraser\_55:

(Start: 2 @39313 has 8 MA's),

Gene: Iter\_57 Start: 38754, Stop: 38984, Start Num: 2

Candidate Starts for Iter\_57:

(Start: 2 @38754 has 8 MA's), (4, 38919), (5, 38928),

Gene: London\_55 Start: 39304, Stop: 39528, Start Num: 2

Candidate Starts for London\_55:

(Start: 2 @39304 has 8 MA's),

Gene: MissSwiss\_56 Start: 36962, Stop: 37186, Start Num: 3

Candidate Starts for MissSwiss\_56:

(Start: 3 @36962 has 4 MA's),

Gene: Niobe\_55 Start: 39307, Stop: 39531, Start Num: 2

Candidate Starts for Niobe\_55:

(Start: 2 @39307 has 8 MA's),

Gene: PandaPo\_56 Start: 36970, Stop: 37194, Start Num: 3

Candidate Starts for PandaPo\_56:

(Start: 3 @36970 has 4 MA's),

Gene: Skelbel\_56 Start: 39307, Stop: 39531, Start Num: 2

Candidate Starts for Skelbel\_56:

(Start: 2 @39307 has 8 MA's),

Gene: Tian\_55 Start: 40608, Stop: 40832, Start Num: 2

Candidate Starts for Tian\_55:

(1, 40569), (Start: 2 @40608 has 8 MA's),