



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 284374 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284374 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Fitzgerald\_66, Ailee\_65
- Track 2 : BobBob\_67
- Track 3 : Affeca\_67, Love\_71, Shivanishola\_66
- Track 4 : Nordenberg\_65, Tangent\_69, Rofo\_67
- Track 5 : Jabberwocky\_66
- Track 6 : Galadriel\_66

### ***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 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca\_67, Jabberwocky\_66, Love\_71, Nordenberg\_65, Rofo\_67, Shivanishola\_66, Tangent\_69,

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:

- Ailee\_65, BobBob\_67, Fitzgerald\_66, Galadriel\_66,

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

Start 8:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ailee\_65 (DE1), BobBob\_67 (DE1), Fitzgerald\_66 (DE1), Galadriel\_66 (DE1),

Start 10:

- Found in 7 of 11 ( 63.6% ) of genes in pham
- Manual Annotations of this start: 7 of 11

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Affeca\_67 (DE1), Jabberwocky\_66 (DE1), Love\_71 (DE1), Nordenberg\_65 (DE1), Rofo\_67 (DE1), Shivanishola\_66 (DE1), Tangent\_69 (DE1),

### **Summary by clusters:**

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

- Start number 8 was manually annotated 4 times for cluster DE1.
- Start number 10 was manually annotated 7 times for cluster DE1.

### **Gene Information:**

Gene: Affeca\_67 Start: 51592, Stop: 51711, Start Num: 10

Candidate Starts for Affeca\_67:

(3, 51037), (4, 51136), (6, 51172), (9, 51544), (Start: 10 @51592 has 7 MA's),

Gene: Ailee\_65 Start: 50917, Stop: 51036, Start Num: 8

Candidate Starts for Ailee\_65:

(Start: 8 @50917 has 4 MA's),

Gene: BobBob\_67 Start: 50844, Stop: 50963, Start Num: 8

Candidate Starts for BobBob\_67:

(7, 50763), (Start: 8 @50844 has 4 MA's),

Gene: Fitzgerald\_66 Start: 51659, Stop: 51778, Start Num: 8

Candidate Starts for Fitzgerald\_66:

(Start: 8 @51659 has 4 MA's),

Gene: Galadriel\_66 Start: 51536, Stop: 51655, Start Num: 8

Candidate Starts for Galadriel\_66:

(1, 51089), (2, 51188), (7, 51464), (Start: 8 @51536 has 4 MA's),

Gene: Jabberwocky\_66 Start: 51918, Stop: 52037, Start Num: 10

Candidate Starts for Jabberwocky\_66:

(4, 51465), (6, 51501), (9, 51870), (Start: 10 @51918 has 7 MA's),

Gene: Love\_71 Start: 52032, Stop: 52151, Start Num: 10

Candidate Starts for Love\_71:

(3, 51477), (4, 51576), (6, 51612), (9, 51984), (Start: 10 @52032 has 7 MA's),

Gene: Nordenberg\_65 Start: 50152, Stop: 50271, Start Num: 10

Candidate Starts for Nordenberg\_65:

(3, 49618), (4, 49705), (5, 49711), (9, 50104), (Start: 10 @50152 has 7 MA's),

Gene: Rofo\_67 Start: 51164, Stop: 51283, Start Num: 10

Candidate Starts for Rofo\_67:

(3, 50630), (4, 50717), (5, 50723), (9, 51116), (Start: 10 @51164 has 7 MA's),

Gene: Shivanishola\_66 Start: 49804, Stop: 49923, Start Num: 10

Candidate Starts for Shivanishola\_66:

(3, 49249), (4, 49348), (6, 49384), (9, 49756), (Start: 10 @49804 has 7 MA's),

Gene: Tangent\_69 Start: 50869, Stop: 50988, Start Num: 10

Candidate Starts for Tangent\_69:

(3, 50335), (4, 50422), (5, 50428), (9, 50821), (Start: 10 @50869 has 7 MA's),