



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 293306 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293306 has 12 members, 0 are drafts.

Phages represented in each track:

- Track 1 : YDN12\_45
- Track 2 : Piccadilly\_48, Cumberbatch\_49, FrumpyGal\_49, ArizonaGT\_49, Eklok\_48, Eastland\_48
- Track 3 : Vondra\_47, HFrancette\_48, Ignacio\_47
- Track 4 : AxeJC\_47
- Track 5 : Gilgamesh\_21

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

The start number called the most often in the published annotations is 7, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArizonaGT\_49, AxeJC\_47, Cumberbatch\_49, Eastland\_48, Eklok\_48, FrumpyGal\_49, HFrancette\_48, Ignacio\_47, Piccadilly\_48, Vondra\_47,

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

- 

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

- Gilgamesh\_21, YDN12\_45,

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

Start 6:

- Found in 2 of 12 ( 16.7% ) 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: Gilgamesh\_21 (singleton), YDN12\_45 (BG),

Start 7:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 10 of 12

- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArizonaGT\_49 (BP), AxeJC\_47 (BP), Cumberbatch\_49 (BP), Eastland\_48 (BP), Eklok\_48 (BP), FrumpyGal\_49 (BP), HFrancette\_48 (BP), Ignacio\_47 (BP), Piccadilly\_48 (BP), Vondra\_47 (BP),

### **Summary by clusters:**

There are 3 clusters represented in this pham: singleton, BG, BP,

Info for manual annotations of cluster BG:

- Start number 6 was manually annotated 1 time for cluster BG.

Info for manual annotations of cluster BP:

- Start number 7 was manually annotated 10 times for cluster BP.

### **Gene Information:**

Gene: ArizonaGT\_49 Start: 32249, Stop: 32467, Start Num: 7

Candidate Starts for ArizonaGT\_49:

(1, 31925), (2, 31949), (3, 32156), (Start: 7 @32249 has 10 MA's), (11, 32399),

Gene: AxeJC\_47 Start: 32027, Stop: 32236, Start Num: 7

Candidate Starts for AxeJC\_47:

(Start: 7 @32027 has 10 MA's),

Gene: Cumberbatch\_49 Start: 32249, Stop: 32467, Start Num: 7

Candidate Starts for Cumberbatch\_49:

(1, 31925), (2, 31949), (3, 32156), (Start: 7 @32249 has 10 MA's), (11, 32399),

Gene: Eastland\_48 Start: 32209, Stop: 32427, Start Num: 7

Candidate Starts for Eastland\_48:

(1, 31885), (2, 31909), (3, 32116), (Start: 7 @32209 has 10 MA's), (11, 32359),

Gene: Eklok\_48 Start: 32008, Stop: 32226, Start Num: 7

Candidate Starts for Eklok\_48:

(1, 31684), (2, 31708), (3, 31915), (Start: 7 @32008 has 10 MA's), (11, 32158),

Gene: FrumpyGal\_49 Start: 32209, Stop: 32427, Start Num: 7

Candidate Starts for FrumpyGal\_49:

(1, 31885), (2, 31909), (3, 32116), (Start: 7 @32209 has 10 MA's), (11, 32359),

Gene: Gilgamesh\_21 Start: 13106, Stop: 12825, Start Num: 6

Candidate Starts for Gilgamesh\_21:

(3, 13196), (5, 13109), (Start: 6 @13106 has 2 MA's), (8, 13088),

Gene: HFrancette\_48 Start: 32550, Stop: 32768, Start Num: 7

Candidate Starts for HFrancette\_48:

(Start: 7 @32550 has 10 MA's), (11, 32700),

Gene: Ignacio\_47 Start: 32453, Stop: 32671, Start Num: 7

Candidate Starts for Ignacio\_47:

(Start: 7 @32453 has 10 MA's), (11, 32603),

Gene: Piccadilly\_48 Start: 32208, Stop: 32426, Start Num: 7

Candidate Starts for Piccadilly\_48:

(1, 31884), (2, 31908), (3, 32115), (Start: 7 @32208 has 10 MA's), (11, 32358),

Gene: Vondra\_47 Start: 31794, Stop: 32012, Start Num: 7

Candidate Starts for Vondra\_47:

(Start: 7 @31794 has 10 MA's), (11, 31944),

Gene: YDN12\_45 Start: 34681, Stop: 34436, Start Num: 6

Candidate Starts for YDN12\_45:

(4, 34759), (Start: 6 @34681 has 2 MA's), (8, 34663), (9, 34645), (10, 34549), (12, 34498), (13, 34477),  
(14, 34462), (15, 34459), (16, 34447),