



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 301995 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301995 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : EricMillard\_159, Klein\_164, BAKA\_166, Kalah2\_157, Bagrid\_169, Marleymoo\_148, Bobby\_153, Duke13\_163, Optimus\_157
- Track 2 : Stellammi\_137

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA\_166, Bagrid\_169, Bobby\_153, Duke13\_163, EricMillard\_159, Kalah2\_157, Klein\_164, Marleymoo\_148, Optimus\_157,

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:

- Stellammi\_137,

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

Start 1:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA\_166 (J), Bagrid\_169 (J), Bobby\_153 (J), Duke13\_163 (J), EricMillard\_159 (J), Kalah2\_157 (J), Klein\_164 (J), Marleymoo\_148 (J), Optimus\_157 (J),

Start 2:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Stellammi\_137 (UNK),

## Summary by clusters:

There are 2 clusters represented in this pham: J, UNK,

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 7 times for cluster J.

Info for manual annotations of cluster UNK:

- Start number 2 was manually annotated 1 time for cluster UNK.

### **Gene Information:**

Gene: BAKA\_166 Start: 86863, Stop: 87108, Start Num: 1

Candidate Starts for BAKA\_166:

(Start: 1 @86863 has 7 MA's), (Start: 2 @86896 has 1 MA's), (3, 86950), (4, 86983), (5, 86989), (6, 87028),

Gene: Bagrid\_169 Start: 88092, Stop: 88337, Start Num: 1

Candidate Starts for Bagrid\_169:

(Start: 1 @88092 has 7 MA's), (Start: 2 @88125 has 1 MA's), (3, 88179), (4, 88212), (5, 88218), (6, 88257),

Gene: Bobby\_153 Start: 87833, Stop: 88078, Start Num: 1

Candidate Starts for Bobby\_153:

(Start: 1 @87833 has 7 MA's), (Start: 2 @87866 has 1 MA's), (3, 87920), (4, 87953), (5, 87959), (6, 87998),

Gene: Duke13\_163 Start: 85359, Stop: 85604, Start Num: 1

Candidate Starts for Duke13\_163:

(Start: 1 @85359 has 7 MA's), (Start: 2 @85392 has 1 MA's), (3, 85446), (4, 85479), (5, 85485), (6, 85524),

Gene: EricMillard\_159 Start: 86702, Stop: 86947, Start Num: 1

Candidate Starts for EricMillard\_159:

(Start: 1 @86702 has 7 MA's), (Start: 2 @86735 has 1 MA's), (3, 86789), (4, 86822), (5, 86828), (6, 86867),

Gene: Kalah2\_157 Start: 86290, Stop: 86535, Start Num: 1

Candidate Starts for Kalah2\_157:

(Start: 1 @86290 has 7 MA's), (Start: 2 @86323 has 1 MA's), (3, 86377), (4, 86410), (5, 86416), (6, 86455),

Gene: Klein\_164 Start: 84650, Stop: 84895, Start Num: 1

Candidate Starts for Klein\_164:

(Start: 1 @84650 has 7 MA's), (Start: 2 @84683 has 1 MA's), (3, 84737), (4, 84770), (5, 84776), (6, 84815),

Gene: Marleymoo\_148 Start: 83925, Stop: 84170, Start Num: 1

Candidate Starts for Marleymoo\_148:

(Start: 1 @83925 has 7 MA's), (Start: 2 @83958 has 1 MA's), (3, 84012), (4, 84045), (5, 84051), (6, 84090),

Gene: Optimus\_157 Start: 85179, Stop: 85424, Start Num: 1

Candidate Starts for Optimus\_157:

(Start: 1 @85179 has 7 MA's), (Start: 2 @85212 has 1 MA's), (3, 85266), (4, 85299), (5, 85305), (6, 85344),

Gene: Stellammi\_137 Start: 63474, Stop: 63668, Start Num: 2

Candidate Starts for Stellammi\_137:

(Start: 2 @63474 has 1 MA's), (7, 63639), (8, 63657),