



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 297173 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297173 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Fajezeel\_89, Acme\_90, Greg\_89, Watermelon\_88
- Track 2 : Monet\_88, Treddle\_85, QTRlifeCrisis\_84, Buttons\_81
- Track 3 : Payneful\_74
- Track 4 : Marchy\_78, Levia\_79

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

Genes that call this "Most Annotated" start:

- Acme\_90, Buttons\_81, Fajezeel\_89, Greg\_89, Monet\_88, QTRlifeCrisis\_84, Treddle\_85, Watermelon\_88,

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

- Levia\_79, Marchy\_78, Payneful\_74,

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

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

Start 1:

- Found in 3 of 11 ( 27.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Payneful\_74 (A1),

Start 2:

- Found in 7 of 11 ( 63.6% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Levia\_79 (A1), Marchy\_78 (A1),

Start 3:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 11
- Called 72.7% of time when present
- Phage (with cluster) where this start called: Acme\_90 (A1), Buttons\_81 (A1), Fajezeel\_89 (A1), Greg\_89 (A1), Monet\_88 (A1), QTRlifeCrisis\_84 (A1), Treddle\_85 (A1), Watermelon\_88 (A1),

### **Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 1 was manually annotated 1 time for cluster A1.
- Start number 2 was manually annotated 2 times for cluster A1.
- Start number 3 was manually annotated 8 times for cluster A1.

### **Gene Information:**

Gene: Acme\_90 Start: 51093, Stop: 50980, Start Num: 3

Candidate Starts for Acme\_90:

(Start: 2 @51108 has 2 MA's), (Start: 3 @51093 has 8 MA's), (4, 51078), (5, 51057), (7, 51045), (8, 51027),

Gene: Buttons\_81 Start: 47302, Stop: 47189, Start Num: 3

Candidate Starts for Buttons\_81:

(Start: 3 @47302 has 8 MA's), (4, 47287), (5, 47266), (7, 47254), (8, 47236),

Gene: Fajezeel\_89 Start: 50383, Stop: 50270, Start Num: 3

Candidate Starts for Fajezeel\_89:

(Start: 2 @50398 has 2 MA's), (Start: 3 @50383 has 8 MA's), (4, 50368), (5, 50347), (7, 50335), (8, 50317),

Gene: Greg\_89 Start: 50383, Stop: 50270, Start Num: 3

Candidate Starts for Greg\_89:

(Start: 2 @50398 has 2 MA's), (Start: 3 @50383 has 8 MA's), (4, 50368), (5, 50347), (7, 50335), (8, 50317),

Gene: Levia\_79 Start: 46620, Stop: 46492, Start Num: 2

Candidate Starts for Levia\_79:

(Start: 1 @46623 has 1 MA's), (Start: 2 @46620 has 2 MA's), (Start: 3 @46605 has 8 MA's), (4, 46590), (5, 46569), (6, 46566), (7, 46557), (8, 46539),

Gene: Marchy\_78 Start: 46264, Stop: 46136, Start Num: 2

Candidate Starts for Marchy\_78:

(Start: 1 @46267 has 1 MA's), (Start: 2 @46264 has 2 MA's), (Start: 3 @46249 has 8 MA's), (4, 46234), (5, 46213), (6, 46210), (7, 46201), (8, 46183),

Gene: Monet\_88 Start: 50314, Stop: 50201, Start Num: 3

Candidate Starts for Monet\_88:

(Start: 3 @50314 has 8 MA's), (4, 50299), (5, 50278), (7, 50266), (8, 50248),

Gene: Payneful\_74 Start: 45359, Stop: 45228, Start Num: 1

Candidate Starts for Payneful\_74:

(Start: 1 @45359 has 1 MA's), (Start: 2 @45356 has 2 MA's), (Start: 3 @45341 has 8 MA's), (4, 45326), (5, 45305), (6, 45302), (7, 45293), (8, 45275),

Gene: QTRlifeCrisis\_84 Start: 48537, Stop: 48424, Start Num: 3

Candidate Starts for QTRlifeCrisis\_84:

(Start: 3 @48537 has 8 MA's), (4, 48522), (5, 48501), (7, 48489), (8, 48471),

Gene: Treddle\_85 Start: 49958, Stop: 49845, Start Num: 3

Candidate Starts for Treddle\_85:

(Start: 3 @49958 has 8 MA's), (4, 49943), (5, 49922), (7, 49910), (8, 49892),

Gene: Watermelon\_88 Start: 50262, Stop: 50149, Start Num: 3

Candidate Starts for Watermelon\_88:

(Start: 2 @50277 has 2 MA's), (Start: 3 @50262 has 8 MA's), (4, 50247), (5, 50226), (7, 50214), (8, 50196),