



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 87297 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87297 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Shaqnato\_42
- Track 2 : BadAgartude\_48, Morizzled23\_49
- Track 3 : Grungle\_38, LRRHood\_43, Koguma\_42, Lukilu\_40, Pinkcreek\_37, Astraea\_47, Yassified\_44, Alice\_40
- Track 4 : JulietS\_41

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

The start number called the most often in the published annotations is 5, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alice\_40, Astraea\_47, Grungle\_38, Koguma\_42, LRRHood\_43, Lukilu\_40, Pinkcreek\_37, Shaqnato\_42, Yassified\_44,

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

- BadAgartude\_48, JulietS\_41, Morizzled23\_49,

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

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

Start 5:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Alice\_40 (C1), Astraea\_47 (C1), Grungle\_38 (C1), Koguma\_42 (C1), LRRHood\_43 (C1), Lukilu\_40 (C1), Pinkcreek\_37 (C1), Shaqnato\_42 (C1), Yassified\_44 (C1),

Start 7:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 11

- Called 16.7% of time when present
- Phage (with cluster) where this start called: BadAgartude\_48 (C1), Morizzled23\_49 (C1),

Start 9:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: JulietS\_41 (C1),

### **Summary by clusters:**

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 5 was manually annotated 9 times for cluster C1.
- Start number 7 was manually annotated 2 times for cluster C1.

### **Gene Information:**

Gene: Alice\_40 Start: 13752, Stop: 14048, Start Num: 5

Candidate Starts for Alice\_40:

(2, 13551), (3, 13602), (4, 13620), (Start: 5 @13752 has 9 MA's), (6, 13797), (Start: 7 @13821 has 2 MA's), (8, 13866), (9, 13887), (10, 13917), (11, 13938), (12, 13980),

Gene: Astraea\_47 Start: 15148, Stop: 15444, Start Num: 5

Candidate Starts for Astraea\_47:

(2, 14947), (3, 14998), (4, 15016), (Start: 5 @15148 has 9 MA's), (6, 15193), (Start: 7 @15217 has 2 MA's), (8, 15262), (9, 15283), (10, 15313), (11, 15334), (12, 15376),

Gene: BadAgartude\_48 Start: 15902, Stop: 16129, Start Num: 7

Candidate Starts for BadAgartude\_48:

(2, 15632), (3, 15683), (4, 15701), (Start: 5 @15833 has 9 MA's), (6, 15878), (Start: 7 @15902 has 2 MA's), (8, 15947), (9, 15968), (10, 15998), (11, 16019), (12, 16061),

Gene: Grungle\_38 Start: 12567, Stop: 12863, Start Num: 5

Candidate Starts for Grungle\_38:

(2, 12366), (3, 12417), (4, 12435), (Start: 5 @12567 has 9 MA's), (6, 12612), (Start: 7 @12636 has 2 MA's), (8, 12681), (9, 12702), (10, 12732), (11, 12753), (12, 12795),

Gene: JulietS\_41 Start: 13005, Stop: 13166, Start Num: 9

Candidate Starts for JulietS\_41:

(2, 12669), (3, 12720), (4, 12738), (Start: 5 @12870 has 9 MA's), (6, 12915), (Start: 7 @12939 has 2 MA's), (8, 12984), (9, 13005), (10, 13035), (11, 13056), (12, 13098),

Gene: Koguma\_42 Start: 13213, Stop: 13509, Start Num: 5

Candidate Starts for Koguma\_42:

(2, 13012), (3, 13063), (4, 13081), (Start: 5 @13213 has 9 MA's), (6, 13258), (Start: 7 @13282 has 2 MA's), (8, 13327), (9, 13348), (10, 13378), (11, 13399), (12, 13441),

Gene: LRRHood\_43 Start: 15136, Stop: 15432, Start Num: 5

Candidate Starts for LRRHood\_43:

(2, 14935), (3, 14986), (4, 15004), (Start: 5 @15136 has 9 MA's), (6, 15181), (Start: 7 @15205 has 2 MA's), (8, 15250), (9, 15271), (10, 15301), (11, 15322), (12, 15364),

Gene: Lukilu\_40 Start: 14338, Stop: 14634, Start Num: 5

Candidate Starts for Lukilu\_40:

(2, 14137), (3, 14188), (4, 14206), (Start: 5 @14338 has 9 MA's), (6, 14383), (Start: 7 @14407 has 2 MA's), (8, 14452), (9, 14473), (10, 14503), (11, 14524), (12, 14566),

Gene: Morizzled23\_49 Start: 14908, Stop: 15135, Start Num: 7

Candidate Starts for Morizzled23\_49:

(2, 14638), (3, 14689), (4, 14707), (Start: 5 @14839 has 9 MA's), (6, 14884), (Start: 7 @14908 has 2 MA's), (8, 14953), (9, 14974), (10, 15004), (11, 15025), (12, 15067),

Gene: Pinkcreek\_37 Start: 13068, Stop: 13364, Start Num: 5

Candidate Starts for Pinkcreek\_37:

(2, 12867), (3, 12918), (4, 12936), (Start: 5 @13068 has 9 MA's), (6, 13113), (Start: 7 @13137 has 2 MA's), (8, 13182), (9, 13203), (10, 13233), (11, 13254), (12, 13296),

Gene: Shaqnato\_42 Start: 13558, Stop: 13854, Start Num: 5

Candidate Starts for Shaqnato\_42:

(1, 13354), (2, 13357), (3, 13408), (4, 13426), (Start: 5 @13558 has 9 MA's), (6, 13603), (Start: 7 @13627 has 2 MA's), (8, 13672), (9, 13693), (10, 13723), (11, 13744), (12, 13786),

Gene: Yassified\_44 Start: 14395, Stop: 14691, Start Num: 5

Candidate Starts for Yassified\_44:

(2, 14194), (3, 14245), (4, 14263), (Start: 5 @14395 has 9 MA's), (6, 14440), (Start: 7 @14464 has 2 MA's), (8, 14509), (9, 14530), (10, 14560), (11, 14581), (12, 14623),