



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 159564 Report

This analysis was run 05/04/24 on database version 560.

Pham number 159564 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Settecandela\_186
- Track 2 : Shaqnato\_42
- Track 3 : Koguma\_42, LRRHood\_43, Lukilu\_40, Pinkcreek\_37, Grungle\_38, Astraea\_47, Yassified\_44, Alice\_40

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

The start number called the most often in the published annotations is 8, it was called in 9 of the 10 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:

- Settecandela\_186,

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

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

Start 4:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Settecandela\_186 (AA),

Start 8:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 90.0% 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),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AA, C1,

Info for manual annotations of cluster AA:

- Start number 4 was manually annotated 1 time for cluster AA.

Info for manual annotations of cluster C1:

- Start number 8 was manually annotated 9 times for cluster C1.

### **Gene Information:**

Gene: Alice\_40 Start: 13752, Stop: 14048, Start Num: 8

Candidate Starts for Alice\_40:

(2, 13551), (3, 13602), (5, 13620), (Start: 8 @13752 has 9 MA's), (9, 13797), (10, 13821), (11, 13866), (12, 13887), (13, 13917), (14, 13938), (15, 13980),

Gene: Astraea\_47 Start: 15148, Stop: 15444, Start Num: 8

Candidate Starts for Astraea\_47:

(2, 14947), (3, 14998), (5, 15016), (Start: 8 @15148 has 9 MA's), (9, 15193), (10, 15217), (11, 15262), (12, 15283), (13, 15313), (14, 15334), (15, 15376),

Gene: Grungle\_38 Start: 12567, Stop: 12863, Start Num: 8

Candidate Starts for Grungle\_38:

(2, 12366), (3, 12417), (5, 12435), (Start: 8 @12567 has 9 MA's), (9, 12612), (10, 12636), (11, 12681), (12, 12702), (13, 12732), (14, 12753), (15, 12795),

Gene: Koguma\_42 Start: 13213, Stop: 13509, Start Num: 8

Candidate Starts for Koguma\_42:

(2, 13012), (3, 13063), (5, 13081), (Start: 8 @13213 has 9 MA's), (9, 13258), (10, 13282), (11, 13327), (12, 13348), (13, 13378), (14, 13399), (15, 13441),

Gene: LRRHood\_43 Start: 15136, Stop: 15432, Start Num: 8

Candidate Starts for LRRHood\_43:

(2, 14935), (3, 14986), (5, 15004), (Start: 8 @15136 has 9 MA's), (9, 15181), (10, 15205), (11, 15250), (12, 15271), (13, 15301), (14, 15322), (15, 15364),

Gene: Lukilu\_40 Start: 14338, Stop: 14634, Start Num: 8

Candidate Starts for Lukilu\_40:

(2, 14137), (3, 14188), (5, 14206), (Start: 8 @14338 has 9 MA's), (9, 14383), (10, 14407), (11, 14452), (12, 14473), (13, 14503), (14, 14524), (15, 14566),

Gene: Pinkcreek\_37 Start: 13068, Stop: 13364, Start Num: 8

Candidate Starts for Pinkcreek\_37:

(2, 12867), (3, 12918), (5, 12936), (Start: 8 @13068 has 9 MA's), (9, 13113), (10, 13137), (11, 13182), (12, 13203), (13, 13233), (14, 13254), (15, 13296),

Gene: Settecandela\_186 Start: 121032, Stop: 121415, Start Num: 4

Candidate Starts for Settecandela\_186:

(Start: 4 @121032 has 1 MA's), (6, 121050), (7, 121101), (Start: 8 @121134 has 9 MA's), (12, 121269), (13, 121299), (14, 121320),

Gene: Shaqnato\_42 Start: 13558, Stop: 13854, Start Num: 8

Candidate Starts for Shaqnato\_42:

(1, 13354), (2, 13357), (3, 13408), (5, 13426), (Start: 8 @13558 has 9 MA's), (9, 13603), (10, 13627), (11, 13672), (12, 13693), (13, 13723), (14, 13744), (15, 13786),

Gene: Yassified\_44 Start: 14395, Stop: 14691, Start Num: 8

Candidate Starts for Yassified\_44:

(2, 14194), (3, 14245), (5, 14263), (Start: 8 @14395 has 9 MA's), (9, 14440), (10, 14464), (11, 14509), (12, 14530), (13, 14560), (14, 14581), (15, 14623),