



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 281086 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281086 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Peterson\_12, BaconJack\_11
- Track 2 : JC27\_11, Papez\_11
- Track 3 : SwirlSquare\_57
- Track 4 : Chadwick\_8, PetterN\_8, Scorpia\_8, Naca\_7
- Track 5 : Vetrix\_98
- Track 6 : Lynnae\_101

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

The start number called the most often in the published annotations is 4, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaconJack\_11, JC27\_11, Papez\_11, Peterson\_12,

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:

- Chadwick\_8, Lynnae\_101, Naca\_7, PetterN\_8, Scorpia\_8, SwirlSquare\_57, Vetrix\_98,

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

Start 3:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lynnae\_101 (L2), Vetrix\_98 (L2),

Start 4:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BaconJack\_11 (A1), JC27\_11 (A1), Papez\_11 (A1), Peterson\_12 (A1),

Start 6:

- Found in 5 of 11 ( 45.5% ) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Chadwick\_8 (A5), Naca\_7 (A5), PetterN\_8 (A5), Scorpia\_8 (A5),

Start 8:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SwirlSquare\_57 (A2),

### **Summary by clusters:**

There are 4 clusters represented in this pham: A1, L2, A2, A5,

Info for manual annotations of cluster A1:

- Start number 4 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster A5:

- Start number 6 was manually annotated 4 times for cluster A5.

Info for manual annotations of cluster L2:

- Start number 3 was manually annotated 1 time for cluster L2.

### **Gene Information:**

Gene: BaconJack\_11 Start: 5851, Stop: 6054, Start Num: 4

Candidate Starts for BaconJack\_11:

(1, 5821), (Start: 4 @5851 has 4 MA's), (5, 5854), (15, 6001),

Gene: Chadwick\_8 Start: 4941, Stop: 5153, Start Num: 6

Candidate Starts for Chadwick\_8:

(Start: 6 @4941 has 4 MA's), (9, 4974), (10, 4983), (15, 5085), (16, 5103), (17, 5106), (18, 5118), (19, 5139),

Gene: JC27\_11 Start: 6451, Stop: 6654, Start Num: 4

Candidate Starts for JC27\_11:

(1, 6421), (Start: 4 @6451 has 4 MA's), (5, 6454), (15, 6601),

Gene: Lynnae\_101 Start: 61350, Stop: 61568, Start Num: 3

Candidate Starts for Lynnae\_101:

(Start: 3 @61350 has 1 MA's), (7, 61371), (12, 61443), (13, 61476), (14, 61482), (15, 61497), (17, 61518), (20, 61551),

Gene: Naca\_7 Start: 5055, Stop: 5267, Start Num: 6

Candidate Starts for Naca\_7:

(Start: 6 @5055 has 4 MA's), (9, 5088), (10, 5097), (15, 5199), (16, 5217), (17, 5220), (18, 5232), (19, 5253),

Gene: Papez\_11 Start: 7261, Stop: 7464, Start Num: 4

Candidate Starts for Papez\_11:

(1, 7231), (Start: 4 @7261 has 4 MA's), (5, 7264), (15, 7411),

Gene: Peterson\_12 Start: 7249, Stop: 7452, Start Num: 4

Candidate Starts for Peterson\_12:

(1, 7219), (Start: 4 @7249 has 4 MA's), (5, 7252), (15, 7399),

Gene: PetterN\_8 Start: 4942, Stop: 5154, Start Num: 6

Candidate Starts for PetterN\_8:

(Start: 6 @4942 has 4 MA's), (9, 4975), (10, 4984), (15, 5086), (16, 5104), (17, 5107), (18, 5119), (19, 5140),

Gene: Scorpia\_8 Start: 4943, Stop: 5155, Start Num: 6

Candidate Starts for Scorpia\_8:

(Start: 6 @4943 has 4 MA's), (9, 4976), (10, 4985), (15, 5087), (16, 5105), (17, 5108), (18, 5120), (19, 5141),

Gene: SwirlSquare\_57 Start: 35232, Stop: 35041, Start Num: 8

Candidate Starts for SwirlSquare\_57:

(Start: 6 @35253 has 4 MA's), (7, 35238), (8, 35232), (10, 35211), (11, 35205), (13, 35130), (15, 35109),

Gene: Vetrix\_98 Start: 61194, Stop: 61412, Start Num: 3

Candidate Starts for Vetrix\_98:

(2, 61185), (Start: 3 @61194 has 1 MA's), (7, 61215), (12, 61287), (13, 61320), (14, 61326), (15, 61341), (17, 61362), (20, 61395),