



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 289862 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289862 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Chanagan\_82
- Track 2 : Gyzlar\_76, Dynamix\_84
- Track 3 : Levia\_78, Norz\_81
- Track 4 : BaconJack\_89, Sibs6\_88
- Track 5 : Briton15\_88
- Track 6 : DreamCatcher\_89
- Track 7 : Parliament\_85, Lamina13\_87
- Track 8 : Snazzy\_86, KyMonks1A\_91
- Track 9 : Phlippers\_84

### ***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 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaconJack\_89, Briton15\_88, Dynamix\_84, Gyzlar\_76, KyMonks1A\_91, Sibs6\_88, Snazzy\_86,

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

- DreamCatcher\_89, Lamina13\_87, Parliament\_85, Phlippers\_84,

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

- Chanagan\_82, Levia\_78, Norz\_81,

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

Start 1:

- Found in 11 of 14 ( 78.6% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 63.6% of time when present
- Phage (with cluster) where this start called: BaconJack\_89 (A1), Briton15\_88 (A1), Dynamix\_84 (A1), Gyzlar\_76 (A1), KyMonks1A\_91 (A1), Sibs6\_88 (A1), Snazzy\_86 (A1),

Start 2:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Chanagan\_82 (A1), DreamCatcher\_89 (A1), Lamina13\_87 (A1), Levia\_78 (A1), Norz\_81 (A1), Parliament\_85 (A1), Phlippers\_84 (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 7 times for cluster A1.
- Start number 2 was manually annotated 6 times for cluster A1.

**Gene Information:**

Gene: BaconJack\_89 Start: 51009, Stop: 50845, Start Num: 1

Candidate Starts for BaconJack\_89:

(Start: 1 @51009 has 7 MA's), (Start: 2 @50982 has 6 MA's), (4, 50955), (5, 50865),

Gene: Briton15\_88 Start: 49944, Stop: 49768, Start Num: 1

Candidate Starts for Briton15\_88:

(Start: 1 @49944 has 7 MA's), (Start: 2 @49917 has 6 MA's), (3, 49896), (4, 49890), (5, 49800),

Gene: Chanagan\_82 Start: 47023, Stop: 46874, Start Num: 2

Candidate Starts for Chanagan\_82:

(Start: 2 @47023 has 6 MA's), (4, 46996), (5, 46906),

Gene: DreamCatcher\_89 Start: 49533, Stop: 49384, Start Num: 2

Candidate Starts for DreamCatcher\_89:

(Start: 1 @49560 has 7 MA's), (Start: 2 @49533 has 6 MA's), (4, 49506), (5, 49416),

Gene: Dynamix\_84 Start: 47288, Stop: 47115, Start Num: 1

Candidate Starts for Dynamix\_84:

(Start: 1 @47288 has 7 MA's), (Start: 2 @47261 has 6 MA's), (3, 47240), (4, 47234), (5, 47144), (6, 47123),

Gene: Gyzlar\_76 Start: 45083, Stop: 44910, Start Num: 1

Candidate Starts for Gyzlar\_76:

(Start: 1 @45083 has 7 MA's), (Start: 2 @45056 has 6 MA's), (3, 45035), (4, 45029), (5, 44939), (6, 44918),

Gene: KyMonks1A\_91 Start: 49829, Stop: 49656, Start Num: 1

Candidate Starts for KyMonks1A\_91:

(Start: 1 @49829 has 7 MA's), (Start: 2 @49802 has 6 MA's), (4, 49775), (5, 49685), (6, 49664),

Gene: Lamina13\_87 Start: 50524, Stop: 50378, Start Num: 2

Candidate Starts for Lamina13\_87:

(Start: 1 @50551 has 7 MA's), (Start: 2 @50524 has 6 MA's), (4, 50497), (5, 50407), (6, 50386),

Gene: Levia\_78 Start: 46368, Stop: 46222, Start Num: 2

Candidate Starts for Levia\_78:

(Start: 2 @46368 has 6 MA's), (3, 46347), (4, 46341), (5, 46251), (6, 46230),

Gene: Norz\_81 Start: 50898, Stop: 50752, Start Num: 2

Candidate Starts for Norz\_81:

(Start: 2 @50898 has 6 MA's), (3, 50877), (4, 50871), (5, 50781), (6, 50760),

Gene: Parliament\_85 Start: 51007, Stop: 50861, Start Num: 2

Candidate Starts for Parliament\_85:

(Start: 1 @51034 has 7 MA's), (Start: 2 @51007 has 6 MA's), (4, 50980), (5, 50890), (6, 50869),

Gene: Phlippers\_84 Start: 50146, Stop: 50000, Start Num: 2

Candidate Starts for Phlippers\_84:

(Start: 1 @50173 has 7 MA's), (Start: 2 @50146 has 6 MA's), (3, 50125), (4, 50119), (5, 50029),

Gene: Sibs6\_88 Start: 46921, Stop: 46757, Start Num: 1

Candidate Starts for Sibs6\_88:

(Start: 1 @46921 has 7 MA's), (Start: 2 @46894 has 6 MA's), (4, 46867), (5, 46777),

Gene: Snazzy\_86 Start: 49312, Stop: 49139, Start Num: 1

Candidate Starts for Snazzy\_86:

(Start: 1 @49312 has 7 MA's), (Start: 2 @49285 has 6 MA's), (4, 49258), (5, 49168), (6, 49147),