



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 297221 Report

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

Pham number 297221 has 10 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Lenoxika_43, ToastyOats_45
- Track 2 : Dirdigger_43
- Track 3 : Ryan_43, BigSherm_41, Nandita_43, Saintcarr_42, Yonex_43
- Track 4 : Donatella_41
- Track 5 : Toodles_42

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

The start number called the most often in the published annotations is 6, it was called in 2 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigSherm_41, Nandita_43, Ryan_43, Saintcarr_42, Toodles_42, Yonex_43,

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

- Donatella_41, Lenoxika_43, ToastyOats_45,

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

- Dirdigger_43,

Summary by start number:

Start 4:

- Found in 10 of 10 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Donatella_41 (FF), Lenoxika_43 (FF), ToastyOats_45 (FF),

Start 6:

- Found in 9 of 10 (90.0%) of genes in pham
- Manual Annotations of this start: 2 of 3
- Called 66.7% of time when present

- Phage (with cluster) where this start called: BigSherm_41 (FF), Nandita_43 (FF), Ryan_43 (FF), Saintcarr_42 (FF), Toodles_42 (FF), Yonex_43 (FF),

Start 7:

- Found in 1 of 10 (10.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dirdigger_43 (FF),

Summary by clusters:

There is one cluster represented in this pham: FF

Info for manual annotations of cluster FF:

- Start number 4 was manually annotated 1 time for cluster FF.
- Start number 6 was manually annotated 2 times for cluster FF.

Gene Information:

Gene: BigSherm_41 Start: 29733, Stop: 29419, Start Num: 6

Candidate Starts for BigSherm_41:

(1, 29961), (2, 29937), (3, 29865), (Start: 4 @29847 has 1 MA's), (Start: 6 @29733 has 2 MA's), (9, 29598), (10, 29535), (11, 29529),

Gene: Dirdigger_43 Start: 30603, Stop: 30352, Start Num: 7

Candidate Starts for Dirdigger_43:

(Start: 4 @30759 has 1 MA's), (5, 30744), (7, 30603), (9, 30519), (11, 30450),

Gene: Donatella_41 Start: 30320, Stop: 29892, Start Num: 4

Candidate Starts for Donatella_41:

(1, 30434), (3, 30338), (Start: 4 @30320 has 1 MA's), (Start: 6 @30206 has 2 MA's), (8, 30104), (9, 30071), (10, 30008), (11, 30002),

Gene: Lenoxika_43 Start: 30210, Stop: 29782, Start Num: 4

Candidate Starts for Lenoxika_43:

(1, 30324), (2, 30300), (3, 30228), (Start: 4 @30210 has 1 MA's), (Start: 6 @30096 has 2 MA's), (9, 29961), (10, 29898), (11, 29892),

Gene: Nandita_43 Start: 29959, Stop: 29645, Start Num: 6

Candidate Starts for Nandita_43:

(1, 30187), (2, 30163), (3, 30091), (Start: 4 @30073 has 1 MA's), (Start: 6 @29959 has 2 MA's), (9, 29824), (10, 29761), (11, 29755),

Gene: Ryan_43 Start: 30508, Stop: 30194, Start Num: 6

Candidate Starts for Ryan_43:

(1, 30736), (2, 30712), (3, 30640), (Start: 4 @30622 has 1 MA's), (Start: 6 @30508 has 2 MA's), (9, 30373), (10, 30310), (11, 30304),

Gene: Saintcarr_42 Start: 30279, Stop: 29965, Start Num: 6

Candidate Starts for Saintcarr_42:

(1, 30507), (2, 30483), (3, 30411), (Start: 4 @30393 has 1 MA's), (Start: 6 @30279 has 2 MA's), (9, 30144), (10, 30081), (11, 30075),

Gene: ToastyOats_45 Start: 30397, Stop: 29969, Start Num: 4

Candidate Starts for ToastyOats_45:

(1, 30511), (2, 30487), (3, 30415), (Start: 4 @30397 has 1 MA's), (Start: 6 @30283 has 2 MA's), (9, 30148), (10, 30085), (11, 30079),

Gene: Toodles_42 Start: 30899, Stop: 30600, Start Num: 6

Candidate Starts for Toodles_42:

(1, 31127), (2, 31103), (3, 31031), (Start: 4 @31013 has 1 MA's), (Start: 6 @30899 has 2 MA's), (9, 30764), (11, 30695), (12, 30614),

Gene: Yonex_43 Start: 30508, Stop: 30194, Start Num: 6

Candidate Starts for Yonex_43:

(1, 30736), (2, 30712), (3, 30640), (Start: 4 @30622 has 1 MA's), (Start: 6 @30508 has 2 MA's), (9, 30373), (10, 30310), (11, 30304),