



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 309569 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309569 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Quantum_254, Satis_255, EhyElimayoE_258, Kradal_256, Sarkar_255
- Track 2 : Nirvana_274
- Track 3 : Kela_255
- Track 4 : Frankenweenie_276
- Track 5 : Satis_254
- Track 6 : Quantum_253, EhyElimayoE_257, Kradal_255, Sarkar_254

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 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE_258, Frankenweenie_276, Kradal_256, Nirvana_274, Quantum_254, Sarkar_255, Satis_255,

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:

- EhyElimayoE_257, Kela_255, Kradal_255, Quantum_253, Sarkar_254, Satis_254,

Summary by start number:

Start 4:

- Found in 1 of 13 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kela_255 (BM),

Start 5:

- Found in 7 of 13 (53.8%) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: EhyElimayoE_258 (BM), Frankenweenie_276 (BM), Kradal_256 (BM), Nirvana_274 (BM), Quantum_254 (BM), Sarkar_255 (BM), Satis_255 (BM),

Start 33:

- Found in 5 of 13 (38.5%) of genes in pham
- Manual Annotations of this start: 5 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_257 (BM), Kradal_255 (BM), Quantum_253 (BM), Sarkar_254 (BM), Satis_254 (BM),

Summary by clusters:

There is one cluster represented in this pham: BM

Info for manual annotations of cluster BM:

- Start number 4 was manually annotated 1 time for cluster BM.
- Start number 5 was manually annotated 7 times for cluster BM.
- Start number 33 was manually annotated 5 times for cluster BM.

Gene Information:

Gene: EhyElimayoE_258 Start: 148955, Stop: 148440, Start Num: 5

Candidate Starts for EhyElimayoE_258:

(3, 149009), (Start: 5 @148955 has 7 MA's), (6, 148946), (9, 148886), (13, 148793), (14, 148781), (15, 148775), (20, 148709), (23, 148607), (25, 148583), (27, 148559),

Gene: EhyElimayoE_257 Start: 148443, Stop: 147970, Start Num: 33

Candidate Starts for EhyElimayoE_257:

(1, 149166), (2, 149058), (30, 148506), (Start: 33 @148443 has 5 MA's), (34, 148329), (35, 148314), (36, 148308), (37, 148293), (38, 148257), (39, 148251), (40, 148242), (41, 148221), (42, 148209), (43, 148122), (44, 148062),

Gene: Frankenweenie_276 Start: 160034, Stop: 159519, Start Num: 5

Candidate Starts for Frankenweenie_276:

(Start: 5 @160034 has 7 MA's), (6, 160025), (7, 159992), (8, 159983), (12, 159917), (19, 159797), (21, 159764), (22, 159692), (23, 159686), (24, 159677), (29, 159590), (32, 159530),

Gene: Kela_255 Start: 146832, Stop: 146323, Start Num: 4

Candidate Starts for Kela_255:

(Start: 4 @146832 has 1 MA's), (6, 146823), (9, 146763), (10, 146724), (11, 146718), (16, 146652), (17, 146628), (18, 146616), (21, 146568), (22, 146496), (24, 146481), (26, 146454), (31, 146376), (32, 146334),

Gene: Kradal_256 Start: 148952, Stop: 148437, Start Num: 5

Candidate Starts for Kradal_256:

(3, 149006), (Start: 5 @148952 has 7 MA's), (6, 148943), (9, 148883), (13, 148790), (14, 148778), (15, 148772), (20, 148706), (23, 148604), (25, 148580), (27, 148556),

Gene: Kradal_255 Start: 148440, Stop: 147967, Start Num: 33

Candidate Starts for Kradal_255:

(1, 149163), (2, 149055), (30, 148503), (Start: 33 @148440 has 5 MA's), (34, 148326), (35, 148311), (36, 148305), (37, 148290), (38, 148254), (39, 148248), (40, 148239), (41, 148218), (42, 148206), (43, 148119), (44, 148059),

Gene: Nirvana_274 Start: 160487, Stop: 159972, Start Num: 5

Candidate Starts for Nirvana_274:

(Start: 5 @160487 has 7 MA's), (6, 160478), (7, 160445), (8, 160436), (10, 160379), (12, 160370), (19, 160250), (21, 160217), (22, 160145), (23, 160139), (26, 160103), (32, 159983),

Gene: Quantum_254 Start: 148946, Stop: 148431, Start Num: 5

Candidate Starts for Quantum_254:

(3, 149000), (Start: 5 @148946 has 7 MA's), (6, 148937), (9, 148877), (13, 148784), (14, 148772), (15, 148766), (20, 148700), (23, 148598), (25, 148574), (27, 148550),

Gene: Quantum_253 Start: 148434, Stop: 147961, Start Num: 33

Candidate Starts for Quantum_253:

(1, 149157), (2, 149049), (30, 148497), (Start: 33 @148434 has 5 MA's), (34, 148320), (35, 148305), (36, 148299), (37, 148284), (38, 148248), (39, 148242), (40, 148233), (41, 148212), (42, 148200), (43, 148113), (44, 148053),

Gene: Sarkar_254 Start: 148464, Stop: 147991, Start Num: 33

Candidate Starts for Sarkar_254:

(1, 149187), (2, 149079), (30, 148527), (Start: 33 @148464 has 5 MA's), (34, 148350), (35, 148335), (36, 148329), (37, 148314), (38, 148278), (39, 148272), (40, 148263), (41, 148242), (42, 148230), (43, 148143), (44, 148083),

Gene: Sarkar_255 Start: 148976, Stop: 148461, Start Num: 5

Candidate Starts for Sarkar_255:

(3, 149030), (Start: 5 @148976 has 7 MA's), (6, 148967), (9, 148907), (13, 148814), (14, 148802), (15, 148796), (20, 148730), (23, 148628), (25, 148604), (27, 148580),

Gene: Satis_255 Start: 149289, Stop: 148774, Start Num: 5

Candidate Starts for Satis_255:

(3, 149343), (Start: 5 @149289 has 7 MA's), (6, 149280), (9, 149220), (13, 149127), (14, 149115), (15, 149109), (20, 149043), (23, 148941), (25, 148917), (27, 148893),

Gene: Satis_254 Start: 148777, Stop: 148304, Start Num: 33

Candidate Starts for Satis_254:

(1, 149500), (2, 149392), (28, 148882), (30, 148840), (Start: 33 @148777 has 5 MA's), (34, 148663), (35, 148648), (36, 148642), (37, 148627), (38, 148591), (39, 148585), (40, 148576), (41, 148555), (42, 148543), (43, 148456), (44, 148396),