



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 215017 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215017 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Quantum\_178, EhyElimayoE\_180, Kradal\_179, Satis\_179
- Track 2 : Nirvana\_203
- Track 3 : Frankenweenie\_197
- Track 4 : Zuko\_30

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

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

Genes that call this "Most Annotated" start:

- EhyElimayoE\_180, Frankenweenie\_197, Kradal\_179, Nirvana\_203, Quantum\_178, Satis\_179, Zuko\_30,

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

- 

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

- 

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

Start 3:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_180 (BM), Frankenweenie\_197 (BM), Kradal\_179 (BM), Nirvana\_203 (BM), Quantum\_178 (BM), Satis\_179 (BM), Zuko\_30 (BR),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BM, BR,

Info for manual annotations of cluster BM:

- Start number 3 was manually annotated 5 times for cluster BM.

Info for manual annotations of cluster BR:

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

**Gene Information:**

Gene: EhyElimayoE\_180 Start: 114749, Stop: 114474, Start Num: 3

Candidate Starts for EhyElimayoE\_180:

(1, 114755), (Start: 3 @114749 has 6 MA's), (5, 114674), (9, 114617), (12, 114584), (14, 114563), (15, 114542), (16, 114536),

Gene: Frankenweenie\_197 Start: 124922, Stop: 124647, Start Num: 3

Candidate Starts for Frankenweenie\_197:

(1, 124928), (Start: 3 @124922 has 6 MA's), (5, 124847), (8, 124793), (12, 124757), (14, 124736), (15, 124715), (16, 124709), (17, 124685),

Gene: Kradal\_179 Start: 114746, Stop: 114471, Start Num: 3

Candidate Starts for Kradal\_179:

(1, 114752), (Start: 3 @114746 has 6 MA's), (5, 114671), (9, 114614), (12, 114581), (14, 114560), (15, 114539), (16, 114533),

Gene: Nirvana\_203 Start: 123087, Stop: 122815, Start Num: 3

Candidate Starts for Nirvana\_203:

(Start: 3 @123087 has 6 MA's), (5, 123015), (6, 122994), (8, 122961), (9, 122958), (12, 122925), (14, 122904), (16, 122877),

Gene: Quantum\_178 Start: 114746, Stop: 114471, Start Num: 3

Candidate Starts for Quantum\_178:

(1, 114752), (Start: 3 @114746 has 6 MA's), (5, 114671), (9, 114614), (12, 114581), (14, 114560), (15, 114539), (16, 114533),

Gene: Satis\_179 Start: 115092, Stop: 114817, Start Num: 3

Candidate Starts for Satis\_179:

(1, 115098), (Start: 3 @115092 has 6 MA's), (5, 115017), (9, 114960), (12, 114927), (14, 114906), (15, 114885), (16, 114879),

Gene: Zuko\_30 Start: 28339, Stop: 28611, Start Num: 3

Candidate Starts for Zuko\_30:

(2, 28336), (Start: 3 @28339 has 6 MA's), (4, 28366), (7, 28450), (10, 28489), (11, 28492), (13, 28513),