



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 5216 Report

This analysis was run 04/05/24 on database version 557.

Pham number 5216 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Beem\_236, EricMillard\_230, Ejimix\_224, KashFlow\_225, JuicyJay\_228, Hannaconda\_223, Schatzie\_225, Redno2\_224, Zelink\_226, Hughesyang\_235, ThreeRngTarjay\_232

### ***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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beem\_236, Ejimix\_224, EricMillard\_230, Hannaconda\_223, Hughesyang\_235, JuicyJay\_228, KashFlow\_225, Redno2\_224, Schatzie\_225, ThreeRngTarjay\_232, Zelink\_226,

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 1:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beem\_236 (J), Ejimix\_224 (J), EricMillard\_230 (J), Hannaconda\_223 (J), Hughesyang\_235 (J), JuicyJay\_228 (J), KashFlow\_225 (J), Redno2\_224 (J), Schatzie\_225 (J), ThreeRngTarjay\_232 (J), Zelink\_226 (J),

### **Summary by clusters:**

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 11 times for cluster J.

**Gene Information:**

Gene: Beem\_236 Start: 110192, Stop: 110052, Start Num: 1

Candidate Starts for Beem\_236:

(Start: 1 @110192 has 11 MA's), (2, 110120), (3, 110069),

Gene: Ejimix\_224 Start: 108435, Stop: 108295, Start Num: 1

Candidate Starts for Ejimix\_224:

(Start: 1 @108435 has 11 MA's), (2, 108363), (3, 108312),

Gene: EricMillard\_230 Start: 110279, Stop: 110139, Start Num: 1

Candidate Starts for EricMillard\_230:

(Start: 1 @110279 has 11 MA's), (2, 110207), (3, 110156),

Gene: Hannaconda\_223 Start: 108484, Stop: 108344, Start Num: 1

Candidate Starts for Hannaconda\_223:

(Start: 1 @108484 has 11 MA's), (2, 108412), (3, 108361),

Gene: Hughesyang\_235 Start: 110166, Stop: 110026, Start Num: 1

Candidate Starts for Hughesyang\_235:

(Start: 1 @110166 has 11 MA's), (2, 110094), (3, 110043),

Gene: JuicyJay\_228 Start: 110141, Stop: 110001, Start Num: 1

Candidate Starts for JuicyJay\_228:

(Start: 1 @110141 has 11 MA's), (2, 110069), (3, 110018),

Gene: KashFlow\_225 Start: 108378, Stop: 108238, Start Num: 1

Candidate Starts for KashFlow\_225:

(Start: 1 @108378 has 11 MA's), (2, 108306), (3, 108255),

Gene: Redno2\_224 Start: 105484, Stop: 105344, Start Num: 1

Candidate Starts for Redno2\_224:

(Start: 1 @105484 has 11 MA's), (2, 105412), (3, 105361),

Gene: Schatzie\_225 Start: 108405, Stop: 108265, Start Num: 1

Candidate Starts for Schatzie\_225:

(Start: 1 @108405 has 11 MA's), (2, 108333), (3, 108282),

Gene: ThreeRngTarjay\_232 Start: 110590, Stop: 110450, Start Num: 1

Candidate Starts for ThreeRngTarjay\_232:

(Start: 1 @110590 has 11 MA's), (2, 110518), (3, 110467),

Gene: Zelink\_226 Start: 108091, Stop: 107951, Start Num: 1

Candidate Starts for Zelink\_226:

(Start: 1 @108091 has 11 MA's), (2, 108019), (3, 107968),