



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 106832 Report

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

Pham number 106832 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Shivanishola\_10, Brandonk123\_13
- Track 2 : Geodirt\_10, Lennon\_11, Stultus\_10, Keitabear\_11, Sitar\_11, Vivi2\_9, ChadMasterC\_10
- Track 3 : Barsten\_11
- Track 4 : RiverRaider\_11

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

The start number called the most often in the published annotations is 2, it was called in 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barsten\_11, Brandonk123\_13, ChadMasterC\_10, Geodirt\_10, Keitabear\_11, Lennon\_11, Shivanishola\_10, Sitar\_11, Stultus\_10, Vivi2\_9,

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:

- RiverRaider\_11,

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

Start 2:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barsten\_11 (DE1), Brandonk123\_13 (DE1), ChadMasterC\_10 (DE1), Geodirt\_10 (DE1), Keitabear\_11 (DE1), Lennon\_11 (DE1), Shivanishola\_10 (DE1), Sitar\_11 (DE1), Stultus\_10 (DE1), Vivi2\_9 (DE1),

Start 3:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: RiverRaider\_11 (DE1),

### **Summary by clusters:**

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

- Start number 2 was manually annotated 10 times for cluster DE1.

### ***Gene Information:***

Gene: Barsten\_11 Start: 5914, Stop: 6081, Start Num: 2

Candidate Starts for Barsten\_11:

(Start: 2 @5914 has 10 MA's), (4, 5962),

Gene: Brandonk123\_13 Start: 6598, Stop: 6765, Start Num: 2

Candidate Starts for Brandonk123\_13:

(Start: 2 @6598 has 10 MA's), (4, 6646),

Gene: ChadMasterC\_10 Start: 6186, Stop: 6353, Start Num: 2

Candidate Starts for ChadMasterC\_10:

(1, 6084), (Start: 2 @6186 has 10 MA's), (4, 6234),

Gene: Geodirt\_10 Start: 6226, Stop: 6393, Start Num: 2

Candidate Starts for Geodirt\_10:

(1, 6124), (Start: 2 @6226 has 10 MA's), (4, 6274),

Gene: Keitabear\_11 Start: 7592, Stop: 7759, Start Num: 2

Candidate Starts for Keitabear\_11:

(1, 7490), (Start: 2 @7592 has 10 MA's), (4, 7640),

Gene: Lennon\_11 Start: 6801, Stop: 6968, Start Num: 2

Candidate Starts for Lennon\_11:

(1, 6699), (Start: 2 @6801 has 10 MA's), (4, 6849),

Gene: RiverRaider\_11 Start: 5472, Stop: 5633, Start Num: 3

Candidate Starts for RiverRaider\_11:

(3, 5472),

Gene: Shivanishola\_10 Start: 6635, Stop: 6802, Start Num: 2

Candidate Starts for Shivanishola\_10:

(Start: 2 @6635 has 10 MA's), (4, 6683),

Gene: Sitar\_11 Start: 6801, Stop: 6968, Start Num: 2

Candidate Starts for Sitar\_11:

(1, 6699), (Start: 2 @6801 has 10 MA's), (4, 6849),

Gene: Stultus\_10 Start: 6625, Stop: 6792, Start Num: 2

Candidate Starts for Stultus\_10:

(1, 6523), (Start: 2 @6625 has 10 MA's), (4, 6673),

Gene: Vivi2\_9 Start: 5614, Stop: 5781, Start Num: 2  
Candidate Starts for Vivi2\_9:  
(1, 5512), (Start: 2 @5614 has 10 MA's), (4, 5662),