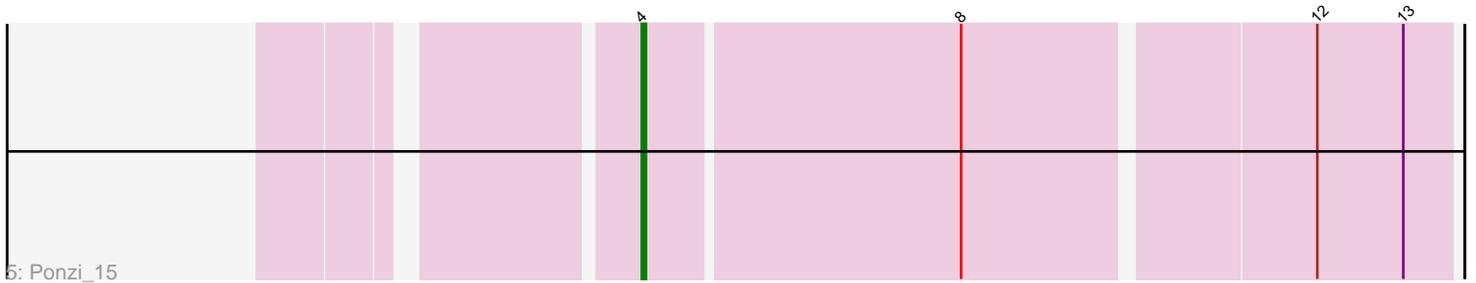
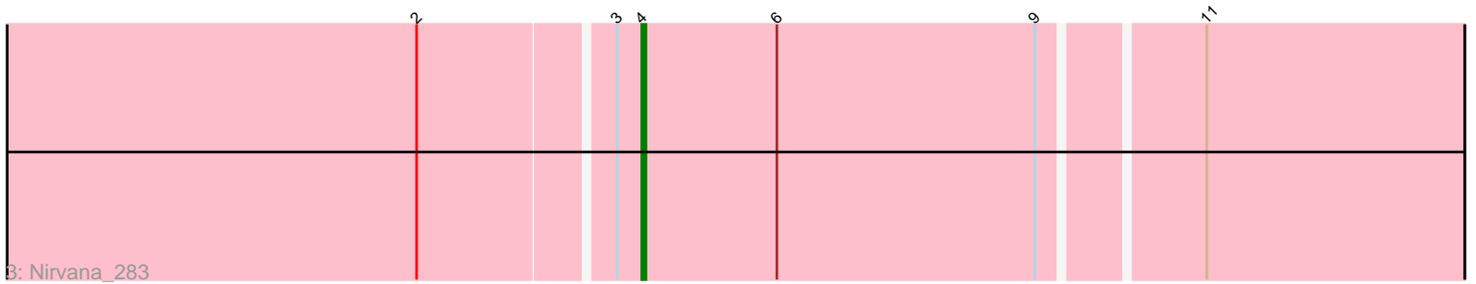
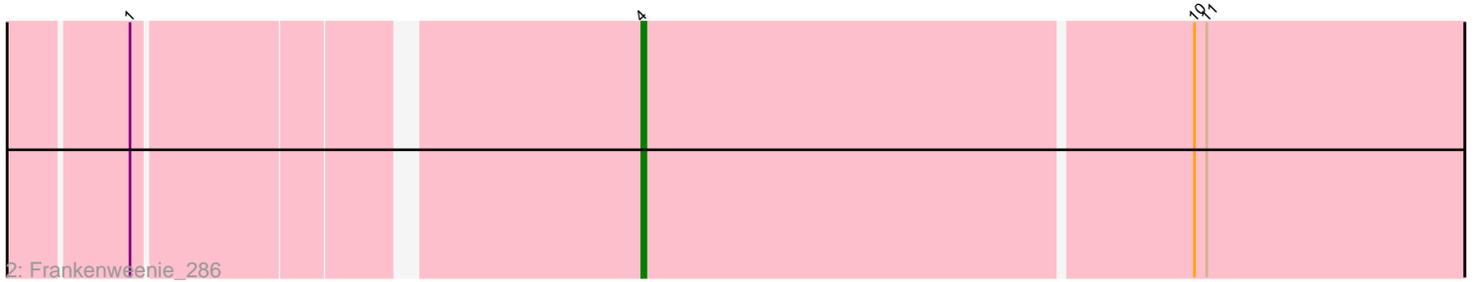
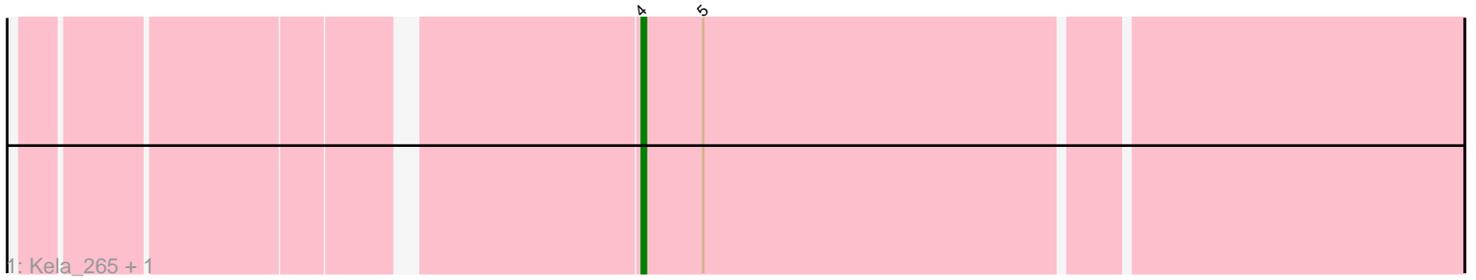


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 284403 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284403 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Kela\_265, JustBecause\_265
- Track 2 : Frankenweenie\_286
- Track 3 : Nirvana\_283
- Track 4 : Kradal\_265, Sarkar\_276, EhyElimayoE\_268, Satis\_265, Quantum\_263
- Track 5 : Ponzi\_15

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

The start number called the most often in the published annotations is 4, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE\_268, Frankenweenie\_286, JustBecause\_265, Kela\_265, Kradal\_265, Nirvana\_283, Ponzi\_15, Quantum\_263, Sarkar\_276, Satis\_265,

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 4:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_268 (BM), Frankenweenie\_286 (BM), JustBecause\_265 (BM), Kela\_265 (BM), Kradal\_265 (BM), Nirvana\_283 (BM), Ponzi\_15 (singleton), Quantum\_263 (BM), Sarkar\_276 (BM), Satis\_265 (BM),

### **Summary by clusters:**

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

Info for manual annotations of cluster BM:

•Start number 4 was manually annotated 8 times for cluster BM.

**Gene Information:**

Gene: EhyElimayoE\_268 Start: 152644, Stop: 152447, Start Num: 4

Candidate Starts for EhyElimayoE\_268:

(3, 152650), (Start: 4 @152644 has 9 MA's), (7, 152599), (10, 152512), (11, 152509), (14, 152455),

Gene: Frankenweenie\_286 Start: 163785, Stop: 163588, Start Num: 4

Candidate Starts for Frankenweenie\_286:

(1, 163899), (Start: 4 @163785 has 9 MA's), (10, 163653), (11, 163650),

Gene: JustBecause\_265 Start: 149325, Stop: 149131, Start Num: 4

Candidate Starts for JustBecause\_265:

(Start: 4 @149325 has 9 MA's), (5, 149310),

Gene: Kela\_265 Start: 150929, Stop: 150735, Start Num: 4

Candidate Starts for Kela\_265:

(Start: 4 @150929 has 9 MA's), (5, 150914),

Gene: Kradal\_265 Start: 152641, Stop: 152444, Start Num: 4

Candidate Starts for Kradal\_265:

(3, 152647), (Start: 4 @152641 has 9 MA's), (7, 152596), (10, 152509), (11, 152506), (14, 152452),

Gene: Nirvana\_283 Start: 164233, Stop: 164039, Start Num: 4

Candidate Starts for Nirvana\_283:

(2, 164284), (3, 164239), (Start: 4 @164233 has 9 MA's), (6, 164200), (9, 164137), (11, 164101),

Gene: Ponzi\_15 Start: 10003, Stop: 9815, Start Num: 4

Candidate Starts for Ponzi\_15:

(Start: 4 @10003 has 9 MA's), (8, 9928), (12, 9847), (13, 9826),

Gene: Quantum\_263 Start: 152635, Stop: 152438, Start Num: 4

Candidate Starts for Quantum\_263:

(3, 152641), (Start: 4 @152635 has 9 MA's), (7, 152590), (10, 152503), (11, 152500), (14, 152446),

Gene: Sarkar\_276 Start: 152686, Stop: 152489, Start Num: 4

Candidate Starts for Sarkar\_276:

(3, 152692), (Start: 4 @152686 has 9 MA's), (7, 152641), (10, 152554), (11, 152551), (14, 152497),

Gene: Satis\_265 Start: 152978, Stop: 152781, Start Num: 4

Candidate Starts for Satis\_265:

(3, 152984), (Start: 4 @152978 has 9 MA's), (7, 152933), (10, 152846), (11, 152843), (14, 152789),