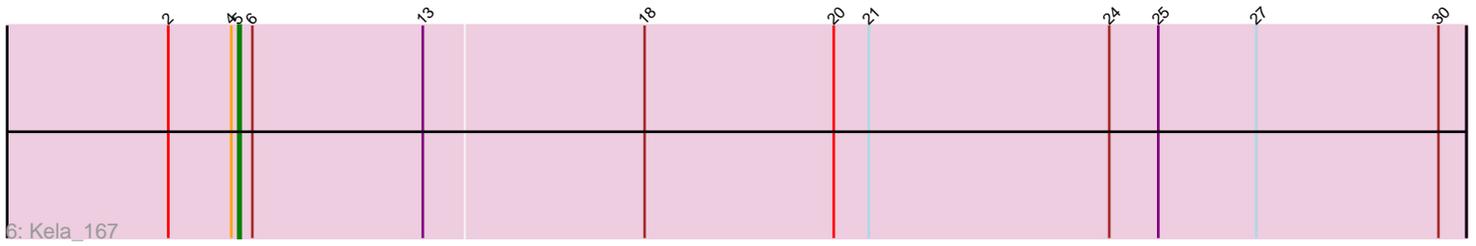
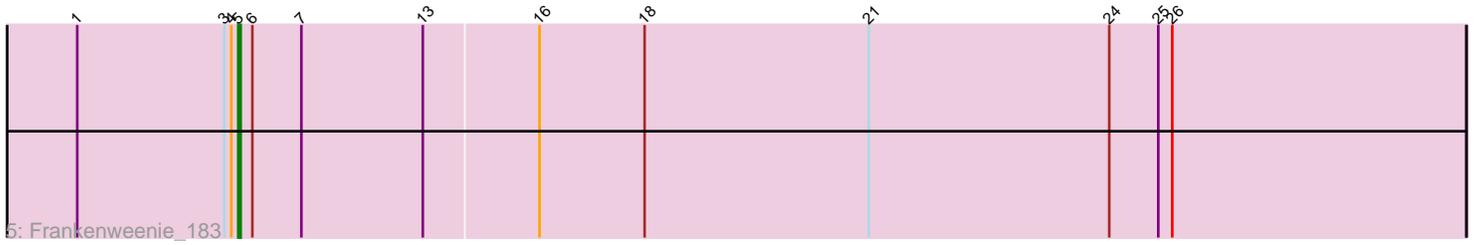
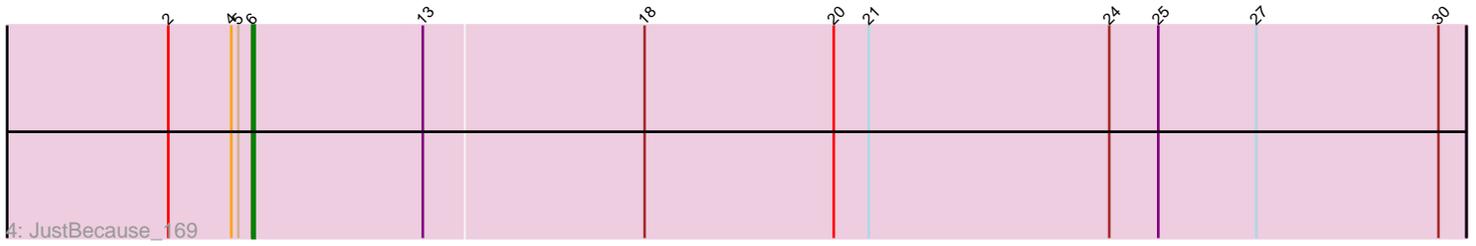
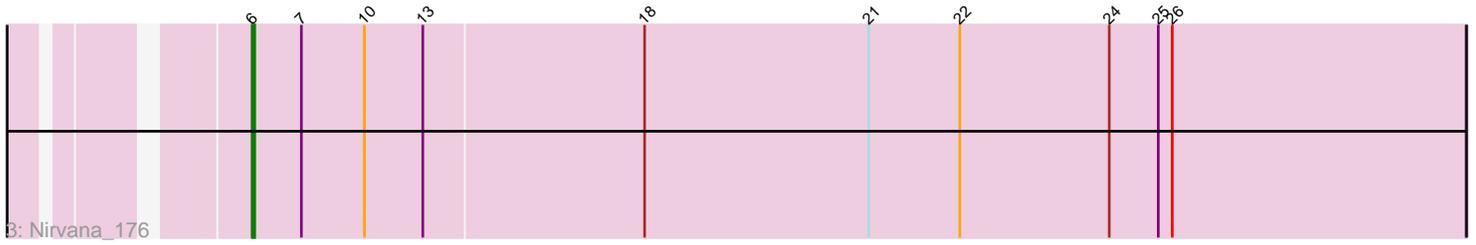
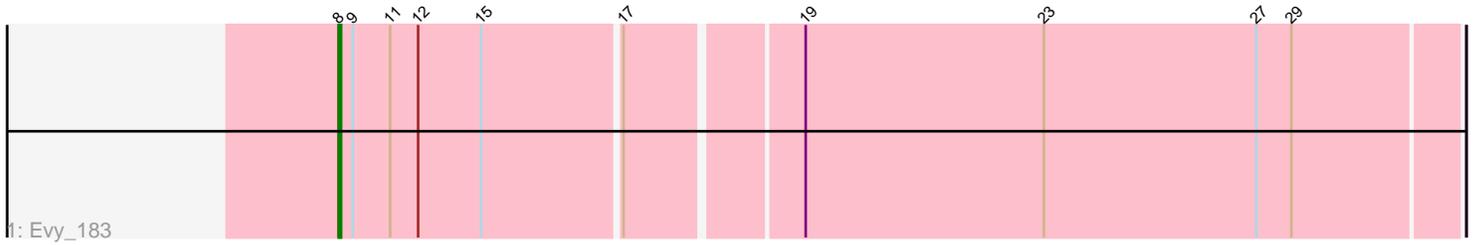


Pham 284410



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 284410 Report

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

Pham number 284410 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Evy\_183
- Track 2 : Sarkar\_177, Kradal\_168, EhyElimayoE\_169, Satis\_168, Quantum\_167
- Track 3 : Nirvana\_176
- Track 4 : JustBecause\_169
- Track 5 : Frankenweenie\_183
- Track 6 : Kela\_167

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

The start number called the most often in the published annotations is 6, it was called in 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE\_169, JustBecause\_169, Kradal\_168, Nirvana\_176, Quantum\_167, Sarkar\_177, Satis\_168,

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

- Frankenweenie\_183, Kela\_167,

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

- Evy\_183,

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

Start 5:

- Found in 8 of 10 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Frankenweenie\_183 (BM), Kela\_167 (BM),

Start 6:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 6 of 9

- Called 77.8% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_169 (BM), JustBecause\_169 (BM), Kradal\_168 (BM), Nirvana\_176 (BM), Quantum\_167 (BM), Sarkar\_177 (BM), Satis\_168 (BM),

Start 8:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Evy\_183 (BE1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BM, BE1,

Info for manual annotations of cluster BE1:

- Start number 8 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BM:

- Start number 5 was manually annotated 2 times for cluster BM.
- Start number 6 was manually annotated 6 times for cluster BM.

### **Gene Information:**

Gene: EhyElimayoE\_169 Start: 110655, Stop: 110146, Start Num: 6

Candidate Starts for EhyElimayoE\_169:

(3, 110667), (4, 110664), (Start: 5 @110661 has 2 MA's), (Start: 6 @110655 has 6 MA's), (7, 110634), (10, 110607), (13, 110583), (14, 110577), (16, 110535), (18, 110490), (24, 110292), (25, 110271), (28, 110226),

Gene: Evy\_183 Start: 100459, Stop: 100920, Start Num: 8

Candidate Starts for Evy\_183:

(Start: 8 @100459 has 1 MA's), (9, 100465), (11, 100480), (12, 100492), (15, 100519), (17, 100576), (19, 100645), (23, 100747), (27, 100837), (29, 100852),

Gene: Frankenweenie\_183 Start: 119290, Stop: 118769, Start Num: 5

Candidate Starts for Frankenweenie\_183:

(1, 119359), (3, 119296), (4, 119293), (Start: 5 @119290 has 2 MA's), (Start: 6 @119284 has 6 MA's), (7, 119263), (13, 119212), (16, 119164), (18, 119119), (21, 119023), (24, 118921), (25, 118900), (26, 118894),

Gene: JustBecause\_169 Start: 107818, Stop: 107303, Start Num: 6

Candidate Starts for JustBecause\_169:

(2, 107854), (4, 107827), (Start: 5 @107824 has 2 MA's), (Start: 6 @107818 has 6 MA's), (13, 107746), (18, 107653), (20, 107572), (21, 107557), (24, 107455), (25, 107434), (27, 107392), (30, 107314),

Gene: Kela\_167 Start: 107698, Stop: 107177, Start Num: 5

Candidate Starts for Kela\_167:

(2, 107728), (4, 107701), (Start: 5 @107698 has 2 MA's), (Start: 6 @107692 has 6 MA's), (13, 107620), (18, 107527), (20, 107446), (21, 107431), (24, 107329), (25, 107308), (27, 107266), (30, 107188),

Gene: Kradal\_168 Start: 110652, Stop: 110143, Start Num: 6

Candidate Starts for Kradal\_168:

(3, 110664), (4, 110661), (Start: 5 @110658 has 2 MA's), (Start: 6 @110652 has 6 MA's), (7, 110631), (10, 110604), (13, 110580), (14, 110574), (16, 110532), (18, 110487), (24, 110289), (25, 110268), (28, 110223),

Gene: Nirvana\_176 Start: 117685, Stop: 117170, Start Num: 6

Candidate Starts for Nirvana\_176:

(Start: 6 @117685 has 6 MA's), (7, 117664), (10, 117637), (13, 117613), (18, 117520), (21, 117424), (22, 117385), (24, 117322), (25, 117301), (26, 117295),

Gene: Quantum\_167 Start: 110652, Stop: 110143, Start Num: 6

Candidate Starts for Quantum\_167:

(3, 110664), (4, 110661), (Start: 5 @110658 has 2 MA's), (Start: 6 @110652 has 6 MA's), (7, 110631), (10, 110604), (13, 110580), (14, 110574), (16, 110532), (18, 110487), (24, 110289), (25, 110268), (28, 110223),

Gene: Sarkar\_177 Start: 110652, Stop: 110143, Start Num: 6

Candidate Starts for Sarkar\_177:

(3, 110664), (4, 110661), (Start: 5 @110658 has 2 MA's), (Start: 6 @110652 has 6 MA's), (7, 110631), (10, 110604), (13, 110580), (14, 110574), (16, 110532), (18, 110487), (24, 110289), (25, 110268), (28, 110223),

Gene: Satis\_168 Start: 110648, Stop: 110139, Start Num: 6

Candidate Starts for Satis\_168:

(3, 110660), (4, 110657), (Start: 5 @110654 has 2 MA's), (Start: 6 @110648 has 6 MA's), (7, 110627), (10, 110600), (13, 110576), (14, 110570), (16, 110528), (18, 110483), (24, 110285), (25, 110264), (28, 110219),