



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 9696 Report

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

Pham number 9696 has 5 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Kradal\_30, EhyElimayoE\_30, Satis\_30
- Track 2 : Frankenweenie\_35
- Track 3 : Nirvana\_34

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

The start number called the most often in the published annotations is 12, it was called in 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE\_30, Frankenweenie\_35, Kradal\_30, Satis\_30,

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

- Nirvana\_34,

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

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

Start 11:

- Found in 2 of 5 ( 40.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nirvana\_34 (BM),

Start 12:

- Found in 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 4
- Called 80.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_30 (BM), Frankenweenie\_35 (BM), Kradal\_30 (BM), Satis\_30 (BM),

### **Summary by clusters:**

There is one cluster represented in this pham: BM

Info for manual annotations of cluster BM:

•Start number 12 was manually annotated 4 times for cluster BM.

### **Gene Information:**

Gene: EhyElimayoE\_30 Start: 18593, Stop: 19414, Start Num: 12

Candidate Starts for EhyElimayoE\_30:

(1, 18314), (3, 18371), (4, 18377), (8, 18551), (10, 18572), (Start: 12 @18593 has 4 MA's), (15, 18755), (16, 18782), (17, 18791), (18, 18812), (19, 18851), (20, 18929), (22, 18956), (23, 18968), (24, 19028), (25, 19037), (26, 19082), (29, 19112), (32, 19214), (33, 19250), (34, 19256), (35, 19280), (37, 19391), (38, 19397),

Gene: Frankenweenie\_35 Start: 20487, Stop: 21302, Start Num: 12

Candidate Starts for Frankenweenie\_35:

(4, 20292), (5, 20337), (6, 20403), (7, 20442), (9, 20451), (11, 20481), (Start: 12 @20487 has 4 MA's), (13, 20601), (14, 20604), (18, 20697), (19, 20736), (20, 20814), (21, 20826), (24, 20913), (26, 20967), (27, 20973), (31, 21093), (34, 21141), (36, 21234), (37, 21279),

Gene: Kradal\_30 Start: 18593, Stop: 19414, Start Num: 12

Candidate Starts for Kradal\_30:

(1, 18314), (3, 18371), (4, 18377), (8, 18551), (10, 18572), (Start: 12 @18593 has 4 MA's), (15, 18755), (16, 18782), (17, 18791), (18, 18812), (19, 18851), (20, 18929), (22, 18956), (23, 18968), (24, 19028), (25, 19037), (26, 19082), (29, 19112), (32, 19214), (33, 19250), (34, 19256), (35, 19280), (37, 19391), (38, 19397),

Gene: Nirvana\_34 Start: 20677, Stop: 21498, Start Num: 11

Candidate Starts for Nirvana\_34:

(1, 20398), (2, 20434), (4, 20488), (5, 20533), (6, 20599), (9, 20647), (11, 20677), (Start: 12 @20683 has 4 MA's), (13, 20797), (14, 20800), (18, 20893), (19, 20932), (20, 21010), (21, 21022), (22, 21037), (25, 21118), (26, 21163), (27, 21169), (28, 21172), (30, 21217), (31, 21289), (34, 21337), (36, 21430), (37, 21475),

Gene: Satis\_30 Start: 18589, Stop: 19410, Start Num: 12

Candidate Starts for Satis\_30:

(1, 18310), (3, 18367), (4, 18373), (8, 18547), (10, 18568), (Start: 12 @18589 has 4 MA's), (15, 18751), (16, 18778), (17, 18787), (18, 18808), (19, 18847), (20, 18925), (22, 18952), (23, 18964), (24, 19024), (25, 19033), (26, 19078), (29, 19108), (32, 19210), (33, 19246), (34, 19252), (35, 19276), (37, 19387), (38, 19393),