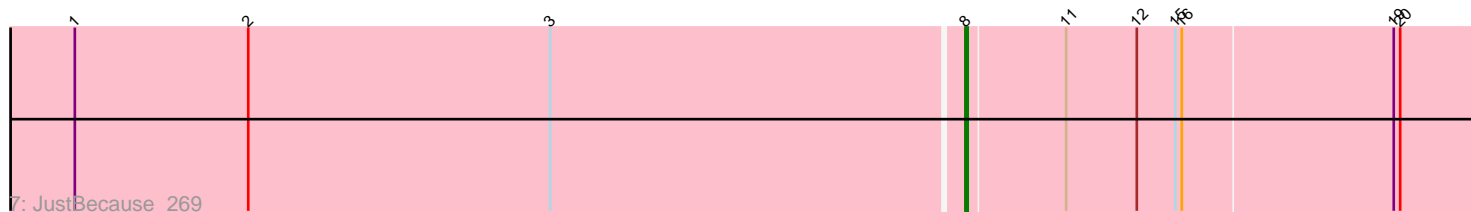
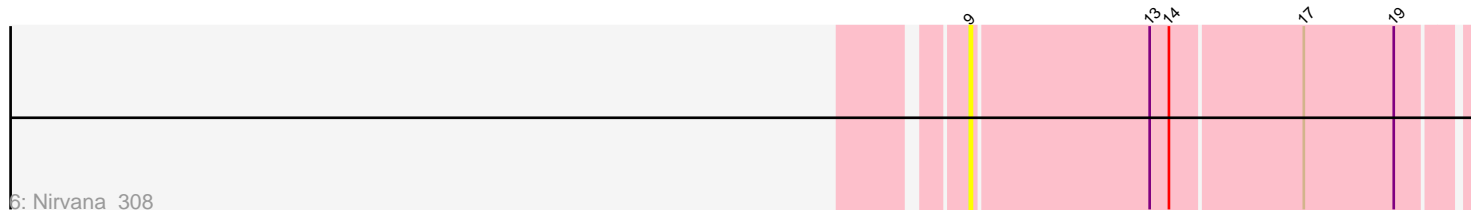
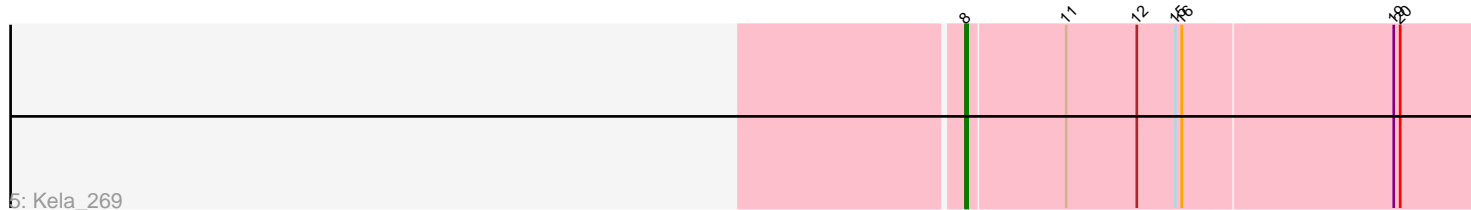
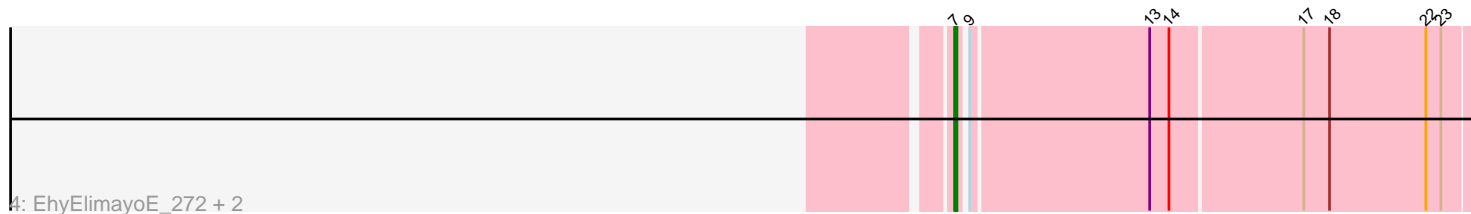
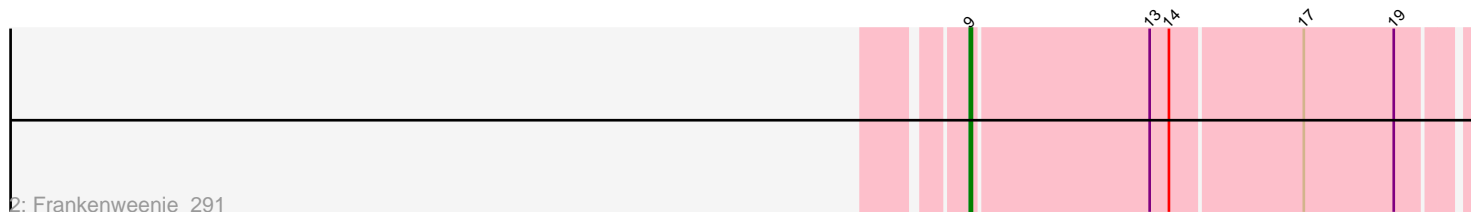


# Pham 5538



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 5538 Report

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

Pham number 5538 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Satis\_270, EhyElimayoE\_273, Kradal\_270
- Track 2 : Frankenweenie\_291
- Track 3 : Frankenweenie\_292
- Track 4 : EhyElimayoE\_272, Satis\_269, Kradal\_269
- Track 5 : Kela\_269
- Track 6 : Nirvana\_308
- Track 7 : JustBecause\_269

### ***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 4 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE\_273, Frankenweenie\_292, Kradal\_270, Satis\_270,

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

- 

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

- EhyElimayoE\_272, Frankenweenie\_291, JustBecause\_269, Kela\_269, Kradal\_269, Nirvana\_308, Satis\_269,

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

Start 6:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_273 (BM), Frankenweenie\_292 (BM), Kradal\_270 (BM), Satis\_270 (BM),

Start 7:

- Found in 3 of 11 ( 27.3% ) of genes in pham

- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_272 (BM), Kradal\_269 (BM), Satis\_269 (BM),

Start 8:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustBecause\_269 (BM), Kela\_269 (BM),

Start 9:

- Found in 5 of 11 ( 45.5% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Frankenweenie\_291 (BM), Nirvana\_308 (BM),

### **Summary by clusters:**

There is one cluster represented in this pham: BM

Info for manual annotations of cluster BM:

- Start number 6 was manually annotated 4 times for cluster BM.
- Start number 7 was manually annotated 3 times for cluster BM.
- Start number 8 was manually annotated 2 times for cluster BM.
- Start number 9 was manually annotated 1 time for cluster BM.

### **Gene Information:**

Gene: EhyElimayoE\_272 Start: 154071, Stop: 153841, Start Num: 7

Candidate Starts for EhyElimayoE\_272:

(Start: 7 @154071 has 3 MA's), (Start: 9 @154068 has 1 MA's), (13, 153987), (14, 153978), (17, 153918), (18, 153906), (22, 153861), (23, 153855),

Gene: EhyElimayoE\_273 Start: 154339, Stop: 154097, Start Num: 6

Candidate Starts for EhyElimayoE\_273:

(3, 154525), (4, 154507), (5, 154363), (Start: 6 @154339 has 4 MA's), (11, 154288), (15, 154237), (21, 154129),

Gene: Frankenweenie\_291 Start: 165356, Stop: 165135, Start Num: 9

Candidate Starts for Frankenweenie\_291:

(Start: 9 @165356 has 1 MA's), (13, 165275), (14, 165266), (17, 165206), (19, 165164),

Gene: Frankenweenie\_292 Start: 165697, Stop: 165455, Start Num: 6

Candidate Starts for Frankenweenie\_292:

(4, 165865), (5, 165721), (Start: 6 @165697 has 4 MA's), (10, 165655), (13, 165604), (15, 165592), (16, 165589), (19, 165493),

Gene: JustBecause\_269 Start: 150841, Stop: 150608, Start Num: 8

Candidate Starts for JustBecause\_269:

(1, 151252), (2, 151171), (3, 151030), (Start: 8 @150841 has 2 MA's), (11, 150796), (12, 150763), (15, 150745), (16, 150742), (19, 150646), (20, 150643),

Gene: Kela\_269 Start: 152446, Stop: 152213, Start Num: 8

Candidate Starts for Kela\_269:

(Start: 8 @152446 has 2 MA's), (11, 152401), (12, 152368), (15, 152350), (16, 152347), (19, 152251), (20, 152248),

Gene: Kradal\_270 Start: 154336, Stop: 154094, Start Num: 6

Candidate Starts for Kradal\_270:

(3, 154522), (4, 154504), (5, 154360), (Start: 6 @154336 has 4 MA's), (11, 154285), (15, 154234), (21, 154126),

Gene: Kradal\_269 Start: 154068, Stop: 153838, Start Num: 7

Candidate Starts for Kradal\_269:

(Start: 7 @154068 has 3 MA's), (Start: 9 @154065 has 1 MA's), (13, 153984), (14, 153975), (17, 153915), (18, 153903), (22, 153858), (23, 153852),

Gene: Nirvana\_308 Start: 166070, Stop: 165849, Start Num: 9

Candidate Starts for Nirvana\_308:

(Start: 9 @166070 has 1 MA's), (13, 165989), (14, 165980), (17, 165920), (19, 165878),

Gene: Satis\_270 Start: 154673, Stop: 154431, Start Num: 6

Candidate Starts for Satis\_270:

(3, 154859), (4, 154841), (5, 154697), (Start: 6 @154673 has 4 MA's), (11, 154622), (15, 154571), (21, 154463),

Gene: Satis\_269 Start: 154405, Stop: 154175, Start Num: 7

Candidate Starts for Satis\_269:

(Start: 7 @154405 has 3 MA's), (Start: 9 @154402 has 1 MA's), (13, 154321), (14, 154312), (17, 154252), (18, 154240), (22, 154195), (23, 154189),