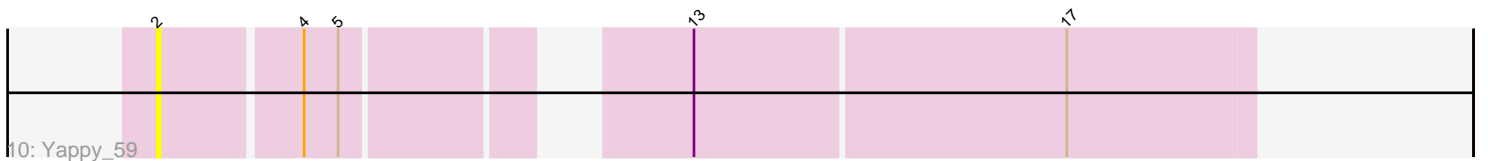
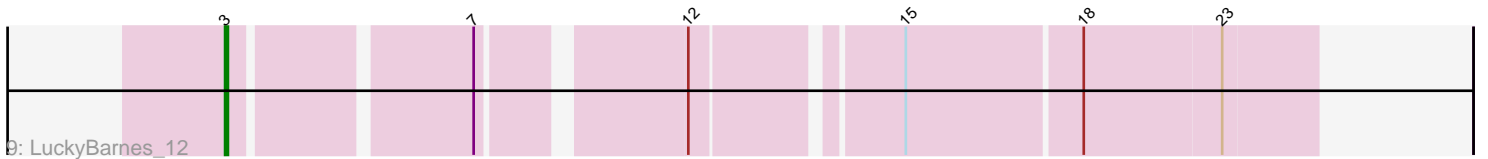
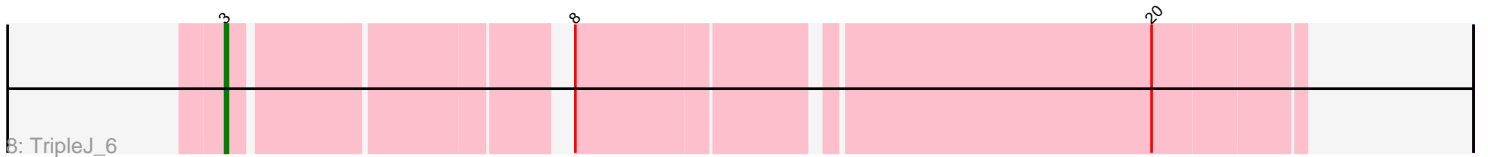
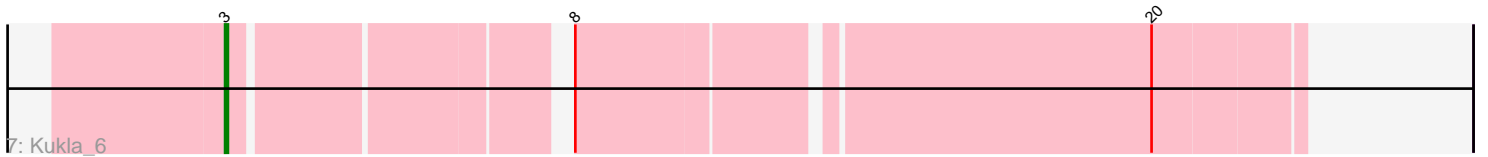
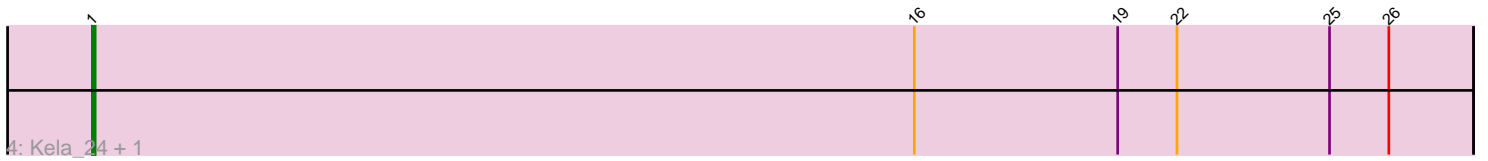
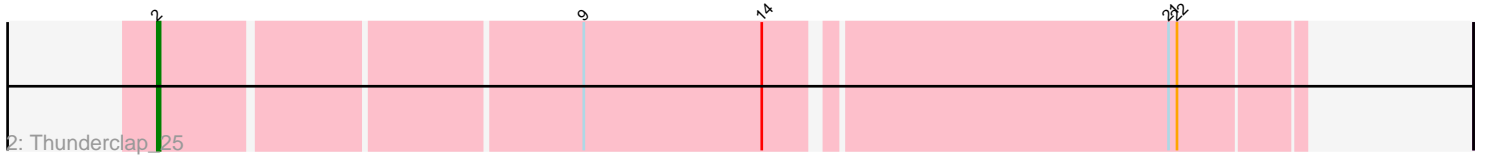
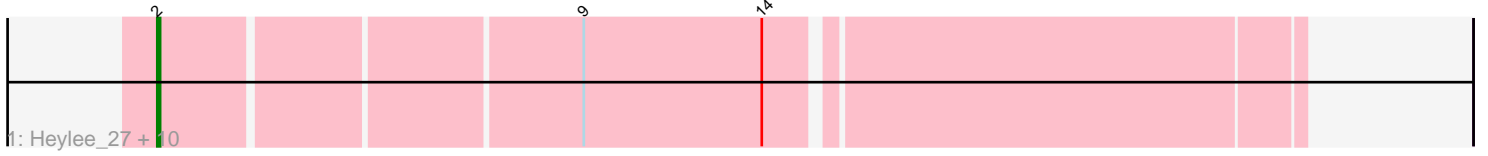


Pham 190044



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 190044 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190044 has 25 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Heylee\_27, Gorgeous\_25, Jaek\_24, Ichor\_24, Anansi\_25, SorJuana\_25, Yeezus\_24, Amigo\_25, Boersma\_26, Amavida\_27, Rings\_24
- Track 2 : Thunderclap\_25
- Track 3 : Molivia\_29
- Track 4 : Kela\_24, JustBecause\_24
- Track 5 : Kradal\_28, Quantum\_27, EhyElimayoE\_28, Satis\_28
- Track 6 : Nirvana\_32, Frankenweenie\_33
- Track 7 : Kukla\_6
- Track 8 : TripleJ\_6
- Track 9 : LuckyBarnes\_12
- Track 10 : Yappy\_59

### ***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 13 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amavida\_27, Amigo\_25, Anansi\_25, Boersma\_26, Gorgeous\_25, Heylee\_27, Ichor\_24, Jaek\_24, Molivia\_29, Rings\_24, SorJuana\_25, Thunderclap\_25, Yappy\_59, Yeezus\_24,

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

- 

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

- EhyElimayoE\_28, Frankenweenie\_33, JustBecause\_24, Kela\_24, Kradal\_28, Kukla\_6, LuckyBarnes\_12, Nirvana\_32, Quantum\_27, Satis\_28, TripleJ\_6,

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

Start 1:

- Found in 8 of 25 ( 32.0% ) of genes in pham
- Manual Annotations of this start: 7 of 23

- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_28 (BM), Frankenweenie\_33 (BM), JustBecause\_24 (BM), Kela\_24 (BM), Kradal\_28 (BM), Nirvana\_32 (BM), Quantum\_27 (BM), Satis\_28 (BM),

#### Start 2:

- Found in 14 of 25 ( 56.0% ) of genes in pham
- Manual Annotations of this start: 13 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amavida\_27 (AQ), Amigo\_25 (AQ), Anansi\_25 (AQ), Boersma\_26 (AQ), Gorgeous\_25 (AQ), Heylee\_27 (AQ), Ichor\_24 (AQ), Jaek\_24 (AQ), Molivia\_29 (AQ), Rings\_24 (AQ), SorJuana\_25 (AQ), Thunderclap\_25 (AQ), Yappy\_59 (singleton), Yeezus\_24 (AQ),

#### Start 3:

- Found in 3 of 25 ( 12.0% ) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kukla\_6 (FJ), LuckyBarnes\_12 (singleton), TripleJ\_6 (FJ),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AQ, BM, FJ, singleton,

Info for manual annotations of cluster AQ:

- Start number 2 was manually annotated 13 times for cluster AQ.

Info for manual annotations of cluster BM:

- Start number 1 was manually annotated 7 times for cluster BM.

Info for manual annotations of cluster FJ:

- Start number 3 was manually annotated 2 times for cluster FJ.

### **Gene Information:**

Gene: Amavida\_27 Start: 13028, Stop: 13411, Start Num: 2

Candidate Starts for Amavida\_27:

(Start: 2 @13028 has 13 MA's), (9, 13169), (14, 13232),

Gene: Amigo\_25 Start: 12902, Stop: 13285, Start Num: 2

Candidate Starts for Amigo\_25:

(Start: 2 @12902 has 13 MA's), (9, 13043), (14, 13106),

Gene: Anansi\_25 Start: 12911, Stop: 13294, Start Num: 2

Candidate Starts for Anansi\_25:

(Start: 2 @12911 has 13 MA's), (9, 13052), (14, 13115),

Gene: Boersma\_26 Start: 12902, Stop: 13285, Start Num: 2

Candidate Starts for Boersma\_26:

(Start: 2 @12902 has 13 MA's), (9, 13043), (14, 13106),

Gene: EhyElimayoE\_28 Start: 16404, Stop: 16892, Start Num: 1  
Candidate Starts for EhyElimayoE\_28:  
(Start: 1 @16404 has 7 MA's), (10, 16581), (11, 16584), (16, 16695), (24, 16815), (25, 16842), (26, 16863),

Gene: Frankenweenie\_33 Start: 18291, Stop: 18779, Start Num: 1  
Candidate Starts for Frankenweenie\_33:  
(Start: 1 @18291 has 7 MA's), (10, 18468), (16, 18582), (26, 18750),

Gene: Gorgeous\_25 Start: 12911, Stop: 13294, Start Num: 2  
Candidate Starts for Gorgeous\_25:  
(Start: 2 @12911 has 13 MA's), (9, 13052), (14, 13115),

Gene: Heylee\_27 Start: 13028, Stop: 13411, Start Num: 2  
Candidate Starts for Heylee\_27:  
(Start: 2 @13028 has 13 MA's), (9, 13169), (14, 13232),

Gene: Ichor\_24 Start: 12902, Stop: 13285, Start Num: 2  
Candidate Starts for Ichor\_24:  
(Start: 2 @12902 has 13 MA's), (9, 13043), (14, 13106),

Gene: Jaek\_24 Start: 12902, Stop: 13285, Start Num: 2  
Candidate Starts for Jaek\_24:  
(Start: 2 @12902 has 13 MA's), (9, 13043), (14, 13106),

Gene: JustBecause\_24 Start: 15143, Stop: 15631, Start Num: 1  
Candidate Starts for JustBecause\_24:  
(Start: 1 @15143 has 7 MA's), (16, 15434), (19, 15506), (22, 15527), (25, 15581), (26, 15602),

Gene: Kela\_24 Start: 15134, Stop: 15622, Start Num: 1  
Candidate Starts for Kela\_24:  
(Start: 1 @15134 has 7 MA's), (16, 15425), (19, 15497), (22, 15518), (25, 15572), (26, 15593),

Gene: Kradal\_28 Start: 16404, Stop: 16892, Start Num: 1  
Candidate Starts for Kradal\_28:  
(Start: 1 @16404 has 7 MA's), (10, 16581), (11, 16584), (16, 16695), (24, 16815), (25, 16842), (26, 16863),

Gene: Kukla\_6 Start: 5268, Stop: 5615, Start Num: 3  
Candidate Starts for Kukla\_6:  
(Start: 3 @5268 has 3 MA's), (8, 5373), (20, 5565),

Gene: LuckyBarnes\_12 Start: 8066, Stop: 8413, Start Num: 3  
Candidate Starts for LuckyBarnes\_12:  
(Start: 3 @8066 has 3 MA's), (7, 8144), (12, 8207), (15, 8273), (18, 8333), (23, 8381),

Gene: Molivia\_29 Start: 13194, Stop: 13577, Start Num: 2  
Candidate Starts for Molivia\_29:  
(Start: 2 @13194 has 13 MA's), (6, 13284),

Gene: Nirvana\_32 Start: 18488, Stop: 18976, Start Num: 1  
Candidate Starts for Nirvana\_32:

(Start: 1 @18488 has 7 MA's), (10, 18665), (16, 18779), (26, 18947),

Gene: Quantum\_27 Start: 16404, Stop: 16892, Start Num: 1

Candidate Starts for Quantum\_27:

(Start: 1 @16404 has 7 MA's), (10, 16581), (11, 16584), (16, 16695), (24, 16815), (25, 16842), (26, 16863),

Gene: Rings\_24 Start: 13033, Stop: 13416, Start Num: 2

Candidate Starts for Rings\_24:

(Start: 2 @13033 has 13 MA's), (9, 13174), (14, 13237),

Gene: Satis\_28 Start: 16400, Stop: 16888, Start Num: 1

Candidate Starts for Satis\_28:

(Start: 1 @16400 has 7 MA's), (10, 16577), (11, 16580), (16, 16691), (24, 16811), (25, 16838), (26, 16859),

Gene: SorJuana\_25 Start: 12911, Stop: 13294, Start Num: 2

Candidate Starts for SorJuana\_25:

(Start: 2 @12911 has 13 MA's), (9, 13052), (14, 13115),

Gene: Thunderclap\_25 Start: 12931, Stop: 13314, Start Num: 2

Candidate Starts for Thunderclap\_25:

(Start: 2 @12931 has 13 MA's), (9, 13072), (14, 13135), (21, 13270), (22, 13273),

Gene: TripleJ\_6 Start: 5557, Stop: 5904, Start Num: 3

Candidate Starts for TripleJ\_6:

(Start: 3 @5557 has 3 MA's), (8, 5662), (20, 5854),

Gene: Yappy\_59 Start: 18789, Stop: 19139, Start Num: 2

Candidate Starts for Yappy\_59:

(Start: 2 @18789 has 13 MA's), (4, 18837), (5, 18849), (13, 18945), (17, 19074),

Gene: Yeezus\_24 Start: 12901, Stop: 13284, Start Num: 2

Candidate Starts for Yeezus\_24:

(Start: 2 @12901 has 13 MA's), (9, 13042), (14, 13105),