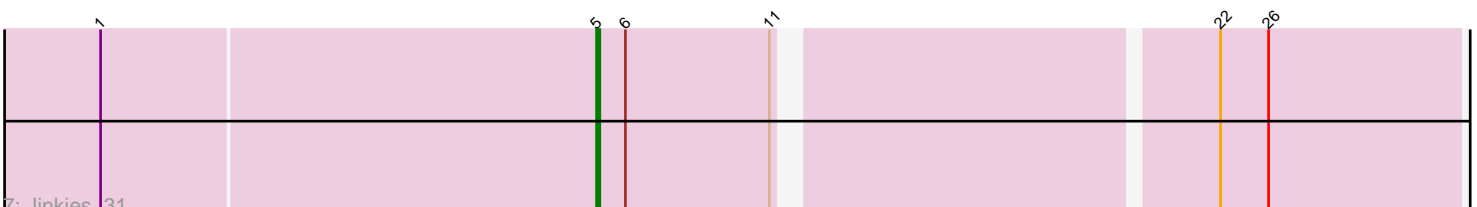
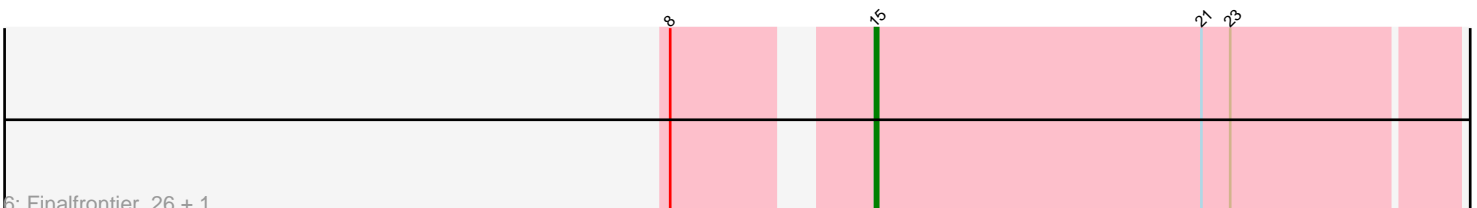
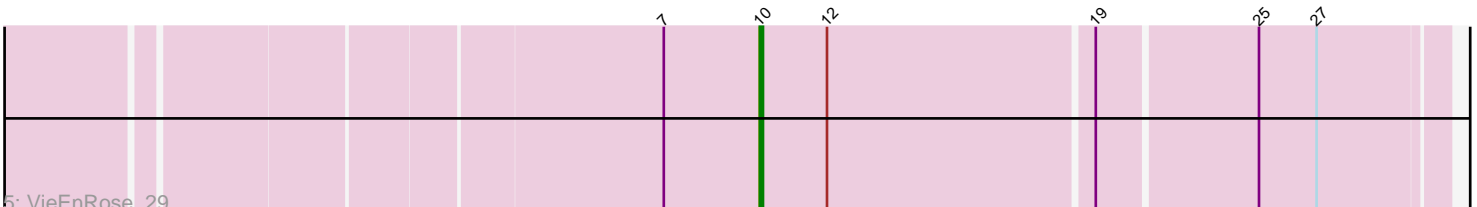
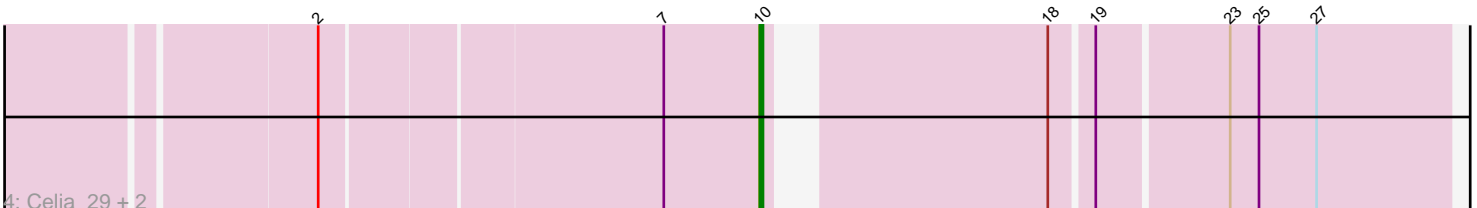
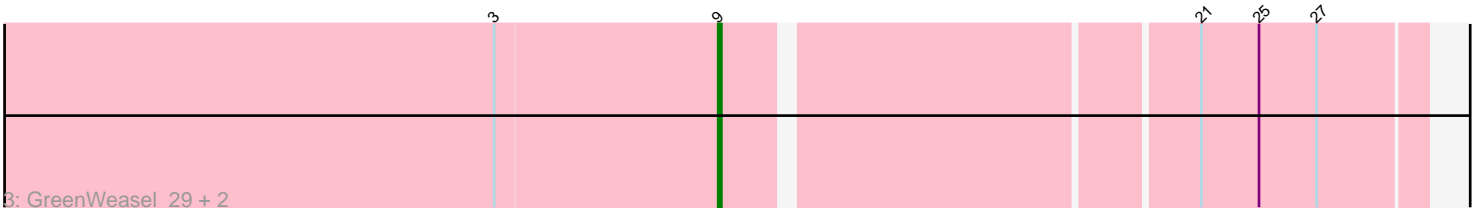
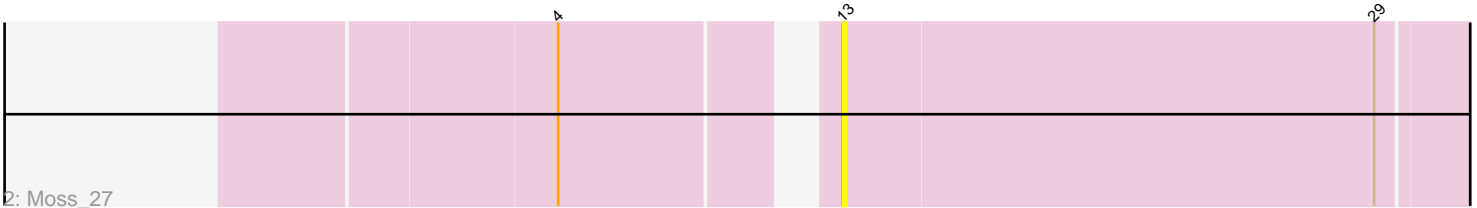


Pham 158307



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 158307 Report

This analysis was run 04/28/24 on database version 559.

Pham number 158307 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Hestia\_28
- Track 2 : Moss\_27
- Track 3 : GreenWeasel\_29, BroPlease\_28, phiHau3\_29
- Track 4 : Celia\_29, Urza\_29, Itza\_29
- Track 5 : VieEnRose\_29
- Track 6 : Finalfrontier\_26, BabyDaisy\_26
- Track 7 : Jinkies\_31

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

The start number called the most often in the published annotations is 10, it was called in 4 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Celia\_29, Itza\_29, Urza\_29, VieEnRose\_29,

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

- 

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

- BabyDaisy\_26, BroPlease\_28, Finalfrontier\_26, GreenWeasel\_29, Hestia\_28, Jinkies\_31, Moss\_27, phiHau3\_29,

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

Start 5:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hestia\_28 (AY), Jinkies\_31 (FL),

Start 9:

- Found in 3 of 12 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 3 of 11

- Called 100.0% of time when present
- Phage (with cluster) where this start called: BroPlease\_28 (BD4), GreenWeasel\_29 (BD4), phiHau3\_29 (BD4),

Start 10:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Celia\_29 (BD6), Itza\_29 (BD6), Urza\_29 (BD6), VieEnRose\_29 (BD6),

Start 13:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Moss\_27 (AZ),

Start 15:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyDaisy\_26 (EB), Finalfrontier\_26 (EB),

### **Summary by clusters:**

There are 6 clusters represented in this pham: EB, BD4, BD6, AY, AZ, FL,

Info for manual annotations of cluster AY:

- Start number 5 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BD4:

- Start number 9 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:

- Start number 10 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster EB:

- Start number 15 was manually annotated 2 times for cluster EB.

Info for manual annotations of cluster FL:

- Start number 5 was manually annotated 1 time for cluster FL.

### **Gene Information:**

Gene: BabyDaisy\_26 Start: 19813, Stop: 19992, Start Num: 15

Candidate Starts for BabyDaisy\_26:

(8, 19762), (Start: 15 @19813 has 2 MA's), (21, 19915), (23, 19924),

Gene: BroPlease\_28 Start: 22457, Stop: 22663, Start Num: 9

Candidate Starts for BroPlease\_28:

(3, 22388), (Start: 9 @22457 has 3 MA's), (21, 22595), (25, 22613), (27, 22631),

Gene: Celia\_29 Start: 23000, Stop: 23194, Start Num: 10

Candidate Starts for Celia\_29:

(2, 22868), (7, 22970), (Start: 10 @23000 has 4 MA's), (18, 23075), (19, 23087), (23, 23126), (25, 23135), (27, 23153),

Gene: Finalfrontier\_26 Start: 20179, Stop: 20358, Start Num: 15

Candidate Starts for Finalfrontier\_26:

(8, 20128), (Start: 15 @20179 has 2 MA's), (21, 20281), (23, 20290),

Gene: GreenWeasel\_29 Start: 22466, Stop: 22672, Start Num: 9

Candidate Starts for GreenWeasel\_29:

(3, 22397), (Start: 9 @22466 has 3 MA's), (21, 22604), (25, 22622), (27, 22640),

Gene: Hestia\_28 Start: 20403, Stop: 20663, Start Num: 5

Candidate Starts for Hestia\_28:

(Start: 5 @20403 has 2 MA's), (14, 20475), (16, 20502), (17, 20505), (20, 20574), (24, 20598), (26, 20604), (28, 20622),

Gene: Itza\_29 Start: 22914, Stop: 23108, Start Num: 10

Candidate Starts for Itza\_29:

(2, 22782), (7, 22884), (Start: 10 @22914 has 4 MA's), (18, 22989), (19, 23001), (23, 23040), (25, 23049), (27, 23067),

Gene: Jinkies\_31 Start: 24736, Stop: 24990, Start Num: 5

Candidate Starts for Jinkies\_31:

(1, 24583), (Start: 5 @24736 has 2 MA's), (6, 24745), (11, 24790), (22, 24916), (26, 24931),

Gene: Moss\_27 Start: 18269, Stop: 18475, Start Num: 13

Candidate Starts for Moss\_27:

(4, 18197), (13, 18269), (29, 18434),

Gene: Urza\_29 Start: 22935, Stop: 23129, Start Num: 10

Candidate Starts for Urza\_29:

(2, 22803), (7, 22905), (Start: 10 @22935 has 4 MA's), (18, 23010), (19, 23022), (23, 23061), (25, 23070), (27, 23088),

Gene: VieEnRose\_29 Start: 23003, Stop: 23209, Start Num: 10

Candidate Starts for VieEnRose\_29:

(7, 22973), (Start: 10 @23003 has 4 MA's), (12, 23024), (19, 23105), (25, 23153), (27, 23171),

Gene: phiHau3\_29 Start: 22430, Stop: 22636, Start Num: 9

Candidate Starts for phiHau3\_29:

(3, 22361), (Start: 9 @22430 has 3 MA's), (21, 22568), (25, 22586), (27, 22604),