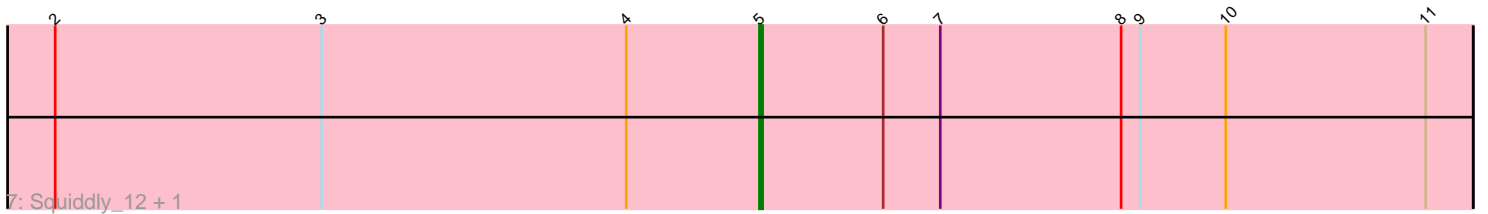
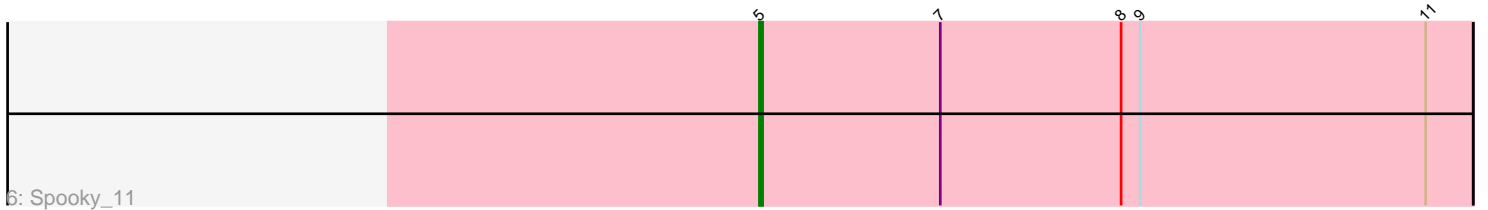
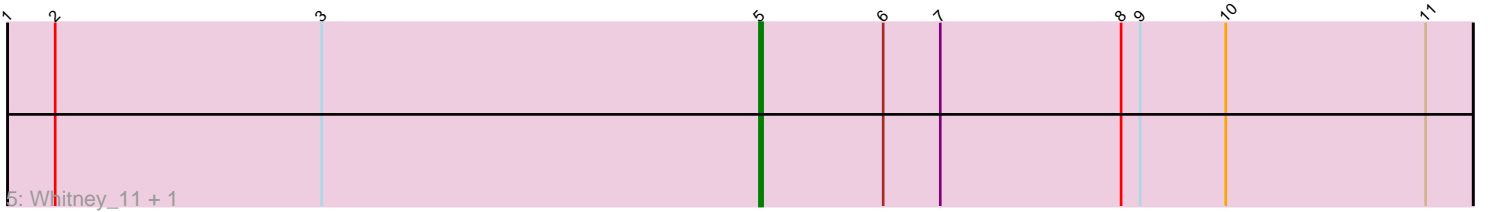
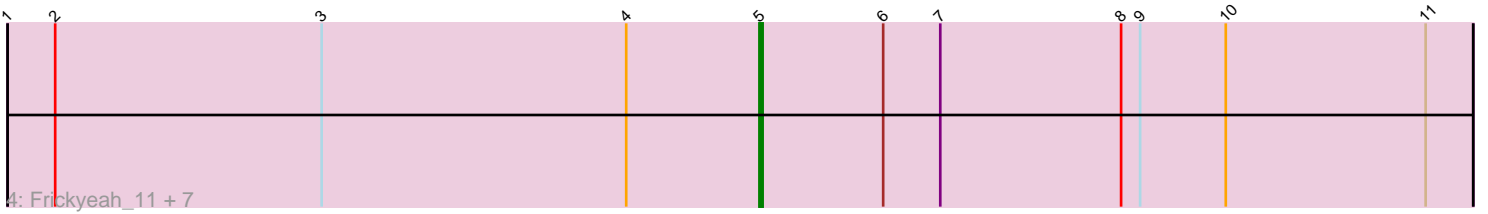
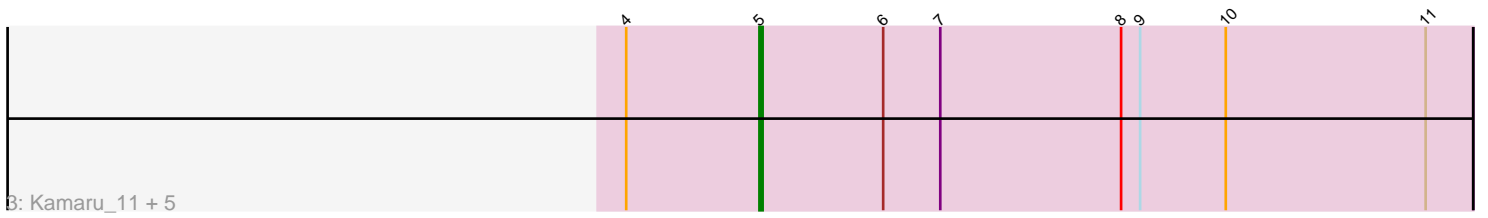
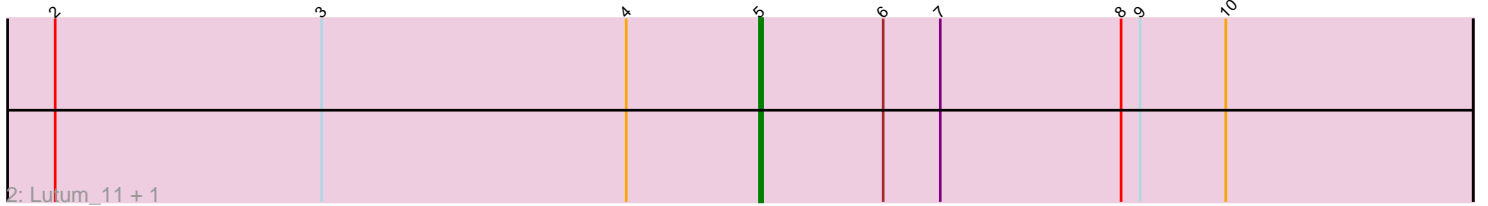
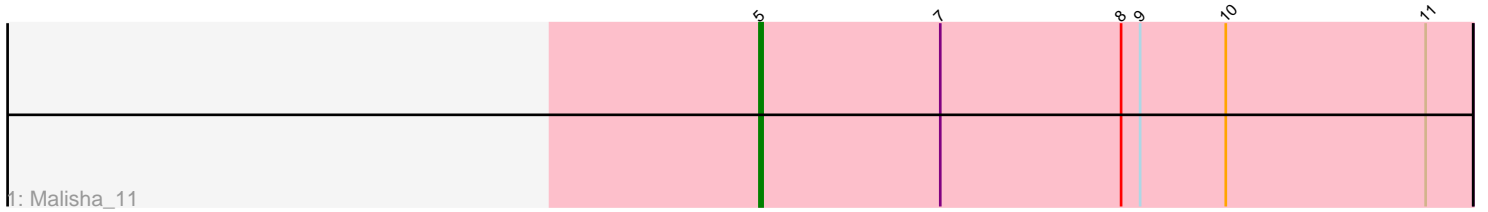


Pham 224882



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 224882 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224882 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Malisha\_11
- Track 2 : Lutum\_11, Kenna\_11
- Track 3 : Kamaru\_11, Holliday\_11, LitninMcQueen\_11, CheeseTouch\_11, Budski\_11, Phabuloso\_11
- Track 4 : Frickyeah\_11, Asapag\_11, BENtherdunthat\_11, Periwinkle\_11, Leroy\_11, Horus\_11, ShawBrad\_11, BotCity\_11
- Track 5 : Whitney\_11, Getalong\_11
- Track 6 : Spooky\_11
- Track 7 : Squiddly\_12, Phistory\_11

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

The start number called the most often in the published annotations is 5, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag\_11, BENtherdunthat\_11, BotCity\_11, Budski\_11, CheeseTouch\_11, Frickyeah\_11, Getalong\_11, Holliday\_11, Horus\_11, Kamaru\_11, Kenna\_11, Leroy\_11, LitninMcQueen\_11, Lutum\_11, Malisha\_11, Periwinkle\_11, Phabuloso\_11, Phistory\_11, ShawBrad\_11, Spooky\_11, Squiddly\_12, Whitney\_11,

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

- 

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

- 

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

Start 5:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Asapag\_11 (DN1), BENtherdunthat\_11 (DN1), BotCity\_11 (DN), Budski\_11 (DN), CheeseTouch\_11 (DN1), Frickyeah\_11 (DN1), Getalong\_11 (DN1), Holliday\_11 (DN1), Horus\_11 (DN1), Kamaru\_11 (DN1), Kenna\_11 (DN1), Leroy\_11 (DN1), LitninMcQueen\_11 (DN1), Lutum\_11 (DN1), Malisha\_11 (DN), Periwinkle\_11 (DN1), Phabuloso\_11 (DN1), Phistory\_11 (DN1), ShawBrad\_11 (DN1), Spooky\_11 (DN2), Squiddly\_12 (DN2), Whitney\_11 (DN1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DN, DN1, DN2,

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster DN1:

- Start number 5 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 5 was manually annotated 2 times for cluster DN2.

### **Gene Information:**

Gene: Asapag\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Asapag\_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: BENtherdunthat\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for BENtherdunthat\_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: BotCity\_11 Start: 6822, Stop: 7046, Start Num: 5

Candidate Starts for BotCity\_11:

(1, 6585), (2, 6600), (3, 6684), (4, 6780), (Start: 5 @6822 has 19 MA's), (6, 6861), (7, 6879), (8, 6936), (9, 6942), (10, 6969), (11, 7032),

Gene: Budski\_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Budski\_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: CheeseTouch\_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for CheeseTouch\_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Frickyeah\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Frickyeah\_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Getalong\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Getalong\_11:

(1, 6587), (2, 6602), (3, 6686), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Holliday\_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Holliday\_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Horus\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Horus\_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Kamaru\_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Kamaru\_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Kenna\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Kenna\_11:

(2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971),

Gene: Leroy\_11 Start: 6825, Stop: 7049, Start Num: 5

Candidate Starts for Leroy\_11:

(1, 6588), (2, 6603), (3, 6687), (4, 6783), (Start: 5 @6825 has 19 MA's), (6, 6864), (7, 6882), (8, 6939), (9, 6945), (10, 6972), (11, 7035),

Gene: LitninMcQueen\_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for LitninMcQueen\_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Lutum\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Lutum\_11:

(2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971),

Gene: Malisha\_11 Start: 7874, Stop: 8098, Start Num: 5

Candidate Starts for Malisha\_11:

(Start: 5 @7874 has 19 MA's), (7, 7931), (8, 7988), (9, 7994), (10, 8021), (11, 8084),

Gene: Periwinkle\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Periwinkle\_11:

(1, 6587), (2, 6602), (3, 6686), (4, 6782), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),

Gene: Phabuloso\_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for Phabuloso\_11:

(4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Phistory\_11 Start: 6813, Stop: 7037, Start Num: 5

Candidate Starts for Phistory\_11:

(2, 6591), (3, 6675), (4, 6771), (Start: 5 @6813 has 19 MA's), (6, 6852), (7, 6870), (8, 6927), (9, 6933), (10, 6960), (11, 7023),

Gene: ShawBrad\_11 Start: 6829, Stop: 7053, Start Num: 5

Candidate Starts for ShawBrad\_11:

(1, 6592), (2, 6607), (3, 6691), (4, 6787), (Start: 5 @6829 has 19 MA's), (6, 6868), (7, 6886), (8, 6943), (9, 6949), (10, 6976), (11, 7039),

Gene: Spooky\_11 Start: 6822, Stop: 7046, Start Num: 5

Candidate Starts for Spooky\_11:

(Start: 5 @6822 has 19 MA's), (7, 6879), (8, 6936), (9, 6942), (11, 7032),

Gene: Squiddly\_12 Start: 7509, Stop: 7733, Start Num: 5

Candidate Starts for Squiddly\_12:

(2, 7287), (3, 7371), (4, 7467), (Start: 5 @7509 has 19 MA's), (6, 7548), (7, 7566), (8, 7623), (9, 7629), (10, 7656), (11, 7719),

Gene: Whitney\_11 Start: 6824, Stop: 7048, Start Num: 5

Candidate Starts for Whitney\_11:

(1, 6587), (2, 6602), (3, 6686), (Start: 5 @6824 has 19 MA's), (6, 6863), (7, 6881), (8, 6938), (9, 6944), (10, 6971), (11, 7034),