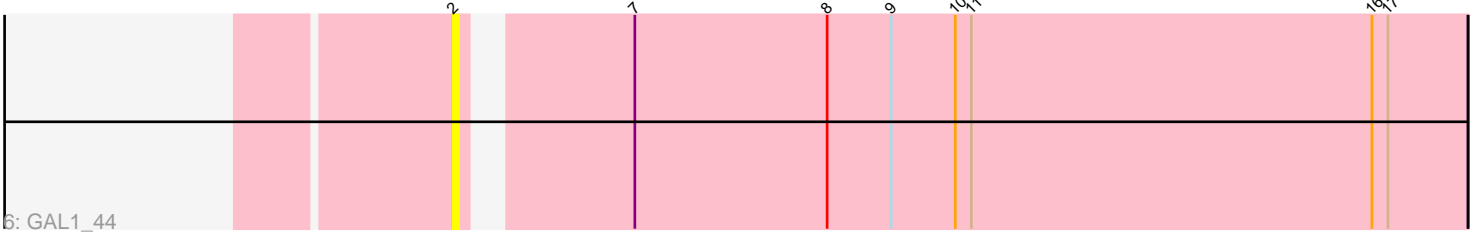
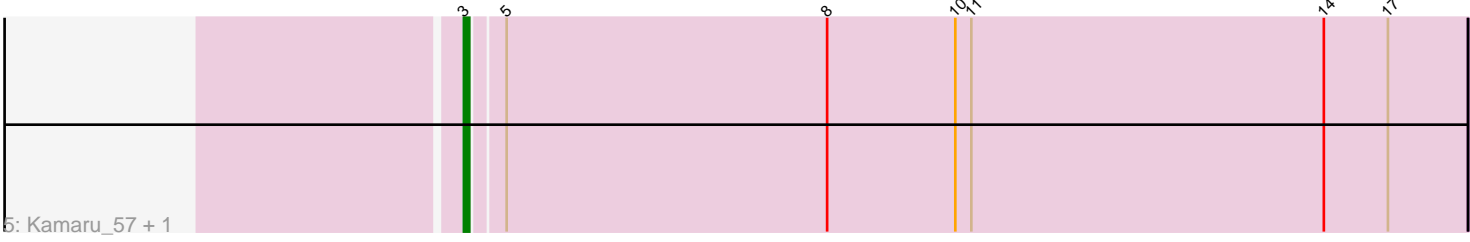
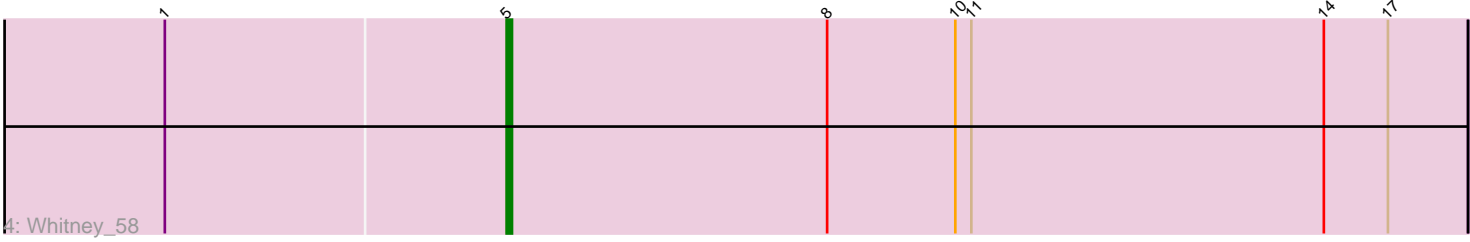
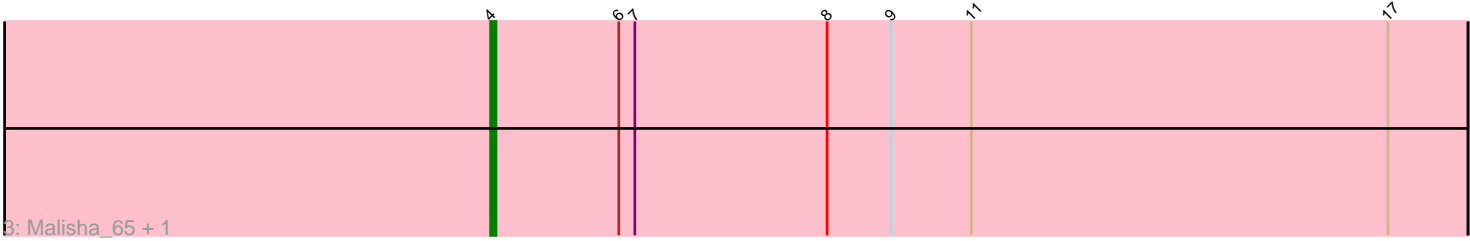
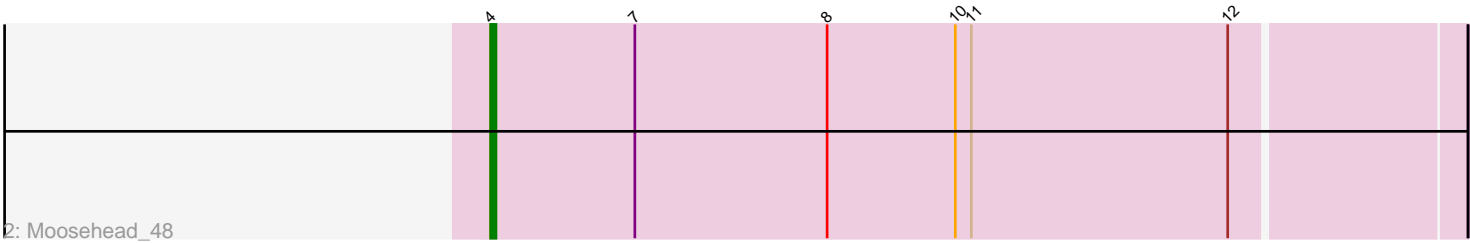
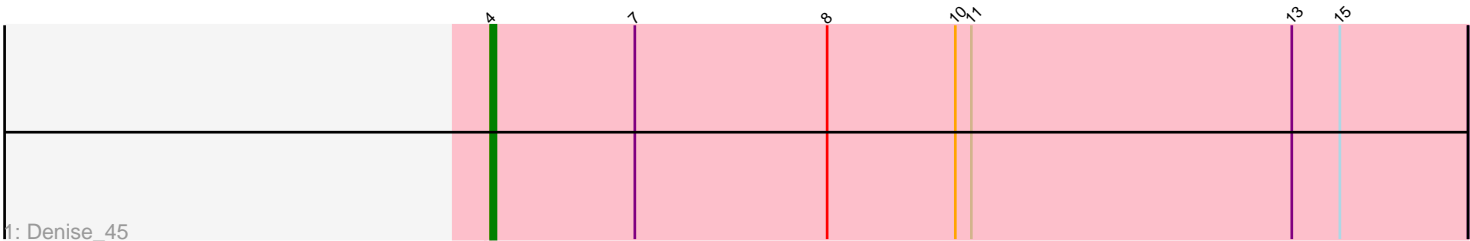


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 7278 Report

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

Pham number 7278 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Denise\_45
- Track 2 : Moosehead\_48
- Track 3 : Malisha\_65, Spooky\_54
- Track 4 : Whitney\_58
- Track 5 : Kamaru\_57, LitninMcQueen\_55
- Track 6 : GAL1\_44

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

The start number called the most often in the published annotations is 4, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Denise\_45, Malisha\_65, Moosehead\_48, Spooky\_54,

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

- 

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

- GAL1\_44, Kamaru\_57, LitninMcQueen\_55, Whitney\_58,

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

Start 2:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GAL1\_44 (singleton),

Start 3:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Kamaru\_57 (DN1), LitninMcQueen\_55 (DN1),

Start 4:

- Found in 4 of 8 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Denise\_45 (CZ5), Malisha\_65 (DN), Moosehead\_48 (CZ6), Spooky\_54 (DN2),

Start 5:

- Found in 3 of 8 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Whitney\_58 (DN1),

### **Summary by clusters:**

There are 6 clusters represented in this pham: DN, singleton, CZ6, CZ5, DN1, DN2,

Info for manual annotations of cluster CZ5:

- Start number 4 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 4 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DN:

- Start number 4 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 1 time for cluster DN1.
- Start number 5 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 4 was manually annotated 1 time for cluster DN2.

### **Gene Information:**

Gene: Denise\_45 Start: 32464, Stop: 32646, Start Num: 4

Candidate Starts for Denise\_45:

(Start: 4 @32464 has 4 MA's), (7, 32491), (8, 32527), (10, 32551), (11, 32554), (13, 32614), (15, 32623),

Gene: GAL1\_44 Start: 34177, Stop: 34359, Start Num: 2

Candidate Starts for GAL1\_44:

(2, 34177), (7, 34204), (8, 34240), (9, 34252), (10, 34264), (11, 34267), (16, 34342), (17, 34345),

Gene: Kamaru\_57 Start: 38144, Stop: 38329, Start Num: 3

Candidate Starts for Kamaru\_57:

(Start: 3 @38144 has 1 MA's), (Start: 5 @38150 has 1 MA's), (8, 38210), (10, 38234), (11, 38237), (14, 38303), (17, 38315),

Gene: LitninMcQueen\_55 Start: 37891, Stop: 38076, Start Num: 3

Candidate Starts for LitninMcQueen\_55:

(Start: 3 @37891 has 1 MA's), (Start: 5 @37897 has 1 MA's), (8, 37957), (10, 37981), (11, 37984), (14, 38050), (17, 38062),

Gene: Malisha\_65 Start: 40978, Stop: 41160, Start Num: 4

Candidate Starts for Malisha\_65:

(Start: 4 @40978 has 4 MA's), (6, 41002), (7, 41005), (8, 41041), (9, 41053), (11, 41068), (17, 41146),

Gene: Moosehead\_48 Start: 31078, Stop: 31257, Start Num: 4

Candidate Starts for Moosehead\_48:

(Start: 4 @31078 has 4 MA's), (7, 31105), (8, 31141), (10, 31165), (11, 31168), (12, 31216),

Gene: Spooky\_54 Start: 37675, Stop: 37857, Start Num: 4

Candidate Starts for Spooky\_54:

(Start: 4 @37675 has 4 MA's), (6, 37699), (7, 37702), (8, 37738), (9, 37750), (11, 37765), (17, 37843),

Gene: Whitney\_58 Start: 39901, Stop: 40080, Start Num: 5

Candidate Starts for Whitney\_58:

(1, 39838), (Start: 5 @39901 has 1 MA's), (8, 39961), (10, 39985), (11, 39988), (14, 40054), (17, 40066),