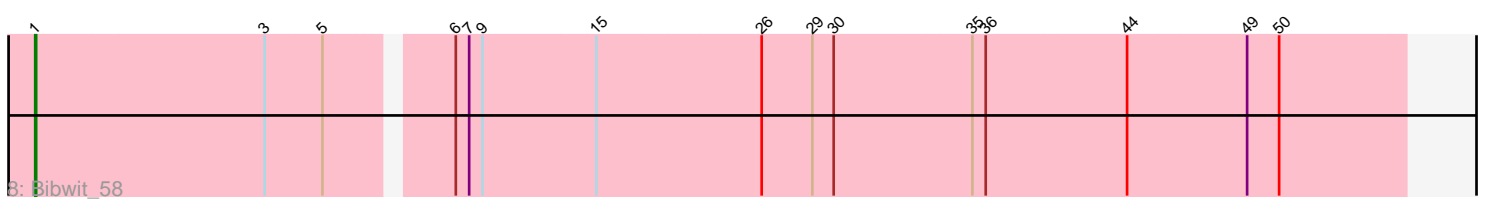
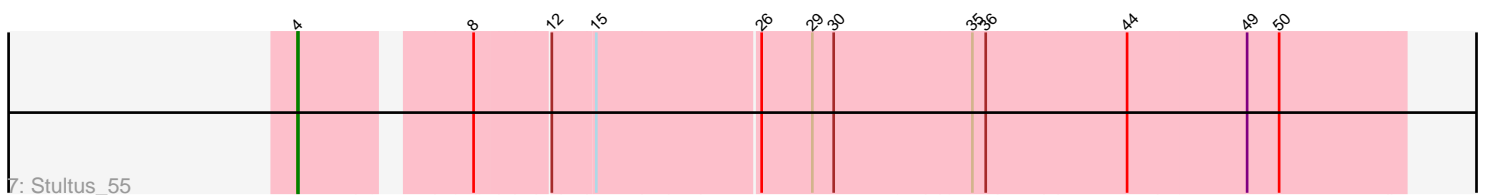
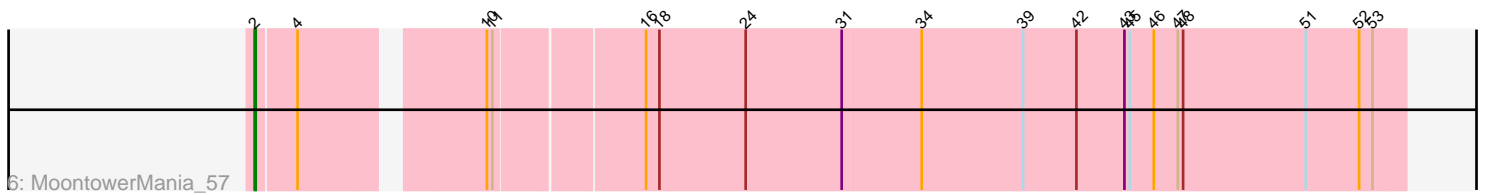
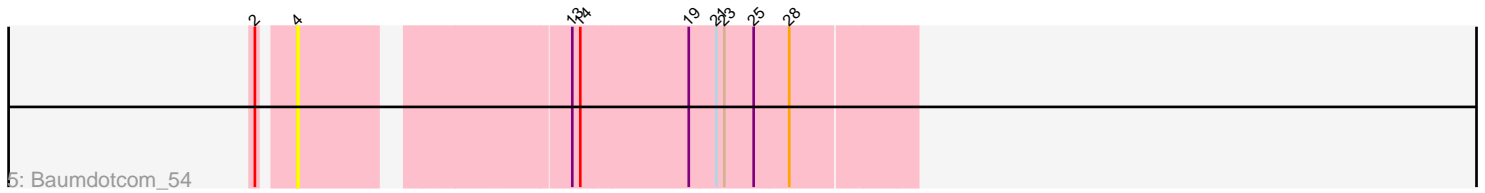
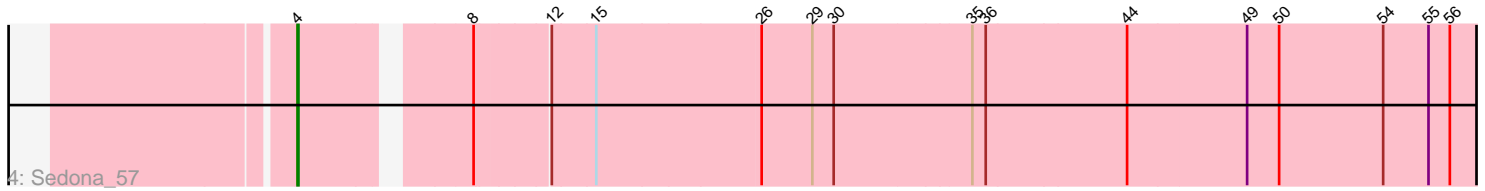
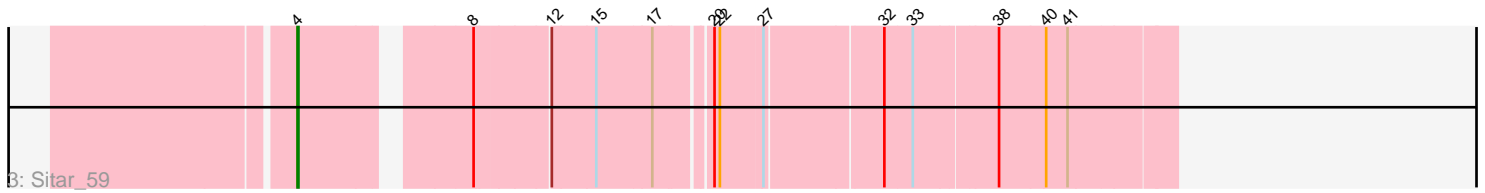
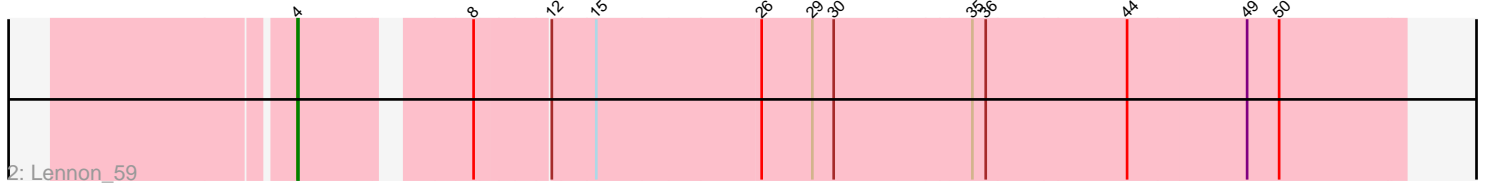
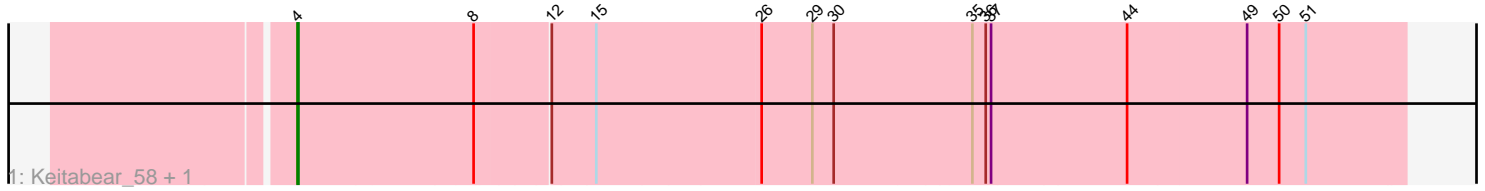


Pham 223653



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 223653 Report

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

Pham number 223653 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Keitabear\_58, Ailee\_55
- Track 2 : Lennon\_59
- Track 3 : Sitar\_59
- Track 4 : Sedona\_57
- Track 5 : Baumdotcom\_54
- Track 6 : MoontowerMania\_57
- Track 7 : Stultus\_55
- Track 8 : Bibwit\_58

### ***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 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ailee\_55, Baumdotcom\_54, Keitabear\_58, Lennon\_59, Sedona\_57, Sitar\_59, Stultus\_55,

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

- MoontowerMania\_57,

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

- Bibwit\_58,

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

Start 1:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bibwit\_58 (DE1),

Start 2:

- Found in 2 of 9 ( 22.2% ) of genes in pham

- Manual Annotations of this start: 1 of 8
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MoontowerMania\_57 (DE1),

Start 4:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Ailee\_55 (DE1), Baumdotcom\_54 (DE1), Keitabear\_58 (DE1), Lennon\_59 (DE1), Sedona\_57 (DE1), Sitar\_59 (DE1), Stultus\_55 (DE1),

### Summary by clusters:

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

- Start number 1 was manually annotated 1 time for cluster DE1.
- Start number 2 was manually annotated 1 time for cluster DE1.
- Start number 4 was manually annotated 6 times for cluster DE1.

### Gene Information:

Gene: Ailee\_55 Start: 46373, Stop: 47545, Start Num: 4

Candidate Starts for Ailee\_55:

(Start: 4 @46373 has 6 MA's), (8, 46535), (12, 46610), (15, 46658), (26, 46835), (29, 46892), (30, 46916), (35, 47066), (36, 47081), (37, 47087), (44, 47237), (49, 47369), (50, 47405), (51, 47435),

Gene: Baumdotcom\_54 Start: 45489, Stop: 46133, Start Num: 4

Candidate Starts for Baumdotcom\_54:

(Start: 2 @45456 has 1 MA's), (Start: 4 @45489 has 6 MA's), (13, 45756), (14, 45765), (19, 45885), (21, 45915), (23, 45924), (25, 45957), (28, 45996),

Gene: Bibwit\_58 Start: 46107, Stop: 47591, Start Num: 1

Candidate Starts for Bibwit\_58:

(Start: 1 @46107 has 1 MA's), (3, 46362), (5, 46425), (6, 46545), (7, 46560), (9, 46575), (15, 46701), (26, 46881), (29, 46938), (30, 46962), (35, 47112), (36, 47127), (44, 47283), (49, 47415), (50, 47451),

Gene: Keitabear\_58 Start: 47995, Stop: 49200, Start Num: 4

Candidate Starts for Keitabear\_58:

(Start: 4 @47995 has 6 MA's), (8, 48187), (12, 48262), (15, 48310), (26, 48490), (29, 48547), (30, 48571), (35, 48721), (36, 48736), (37, 48742), (44, 48892), (49, 49024), (50, 49060), (51, 49090),

Gene: Lennon\_59 Start: 48333, Stop: 49508, Start Num: 4

Candidate Starts for Lennon\_59:

(Start: 4 @48333 has 6 MA's), (8, 48495), (12, 48570), (15, 48618), (26, 48798), (29, 48855), (30, 48879), (35, 49029), (36, 49044), (44, 49200), (49, 49332), (50, 49368),

Gene: MoontowerMania\_57 Start: 47403, Stop: 48626, Start Num: 2

Candidate Starts for MoontowerMania\_57:

(Start: 2 @47403 has 1 MA's), (Start: 4 @47445 has 6 MA's), (10, 47622), (11, 47625), (16, 47781), (18, 47796), (24, 47892), (31, 48000), (34, 48087), (39, 48198), (42, 48258), (43, 48312), (45, 48318), (46, 48345), (47, 48372), (48, 48378), (51, 48516), (52, 48576), (53, 48591),

Gene: Sedona\_57 Start: 47675, Stop: 49015, Start Num: 4

Candidate Starts for Sedona\_57:

(Start: 4 @47675 has 6 MA's), (8, 47837), (12, 47912), (15, 47960), (26, 48140), (29, 48197), (30, 48221), (35, 48371), (36, 48386), (44, 48542), (49, 48674), (50, 48710), (54, 48827), (55, 48878), (56, 48902),

Gene: Sitar\_59 Start: 48333, Stop: 49211, Start Num: 4

Candidate Starts for Sitar\_59:

(Start: 4 @48333 has 6 MA's), (8, 48495), (12, 48570), (15, 48618), (17, 48678), (20, 48732), (22, 48738), (27, 48783), (32, 48906), (33, 48936), (38, 49023), (40, 49074), (41, 49098),

Gene: Stultus\_55 Start: 46310, Stop: 47479, Start Num: 4

Candidate Starts for Stultus\_55:

(Start: 4 @46310 has 6 MA's), (8, 46472), (12, 46547), (15, 46592), (26, 46769), (29, 46826), (30, 46850), (35, 47000), (36, 47015), (44, 47171), (49, 47303), (50, 47339),