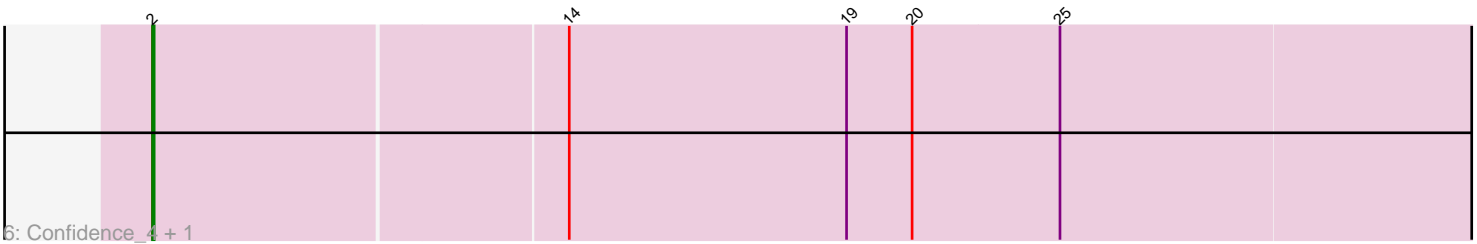
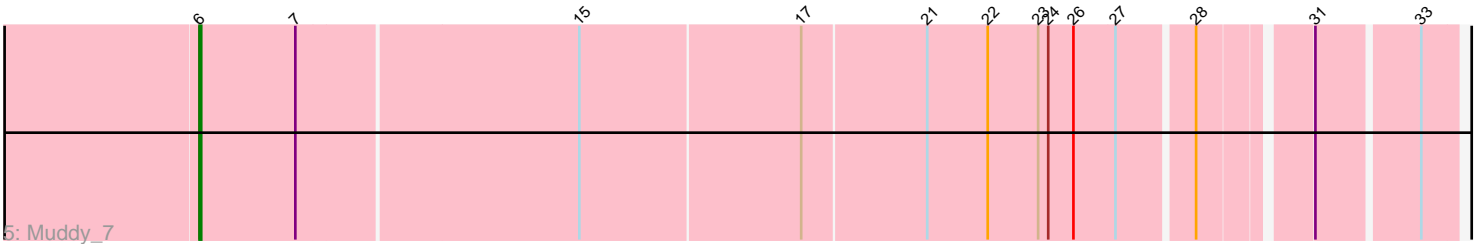
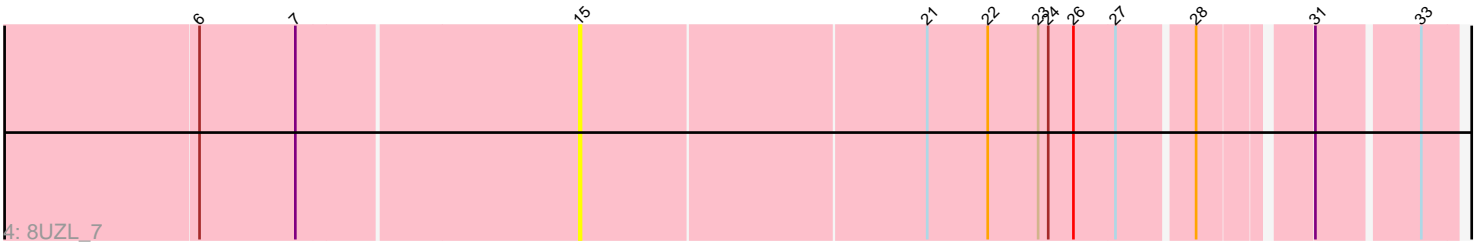
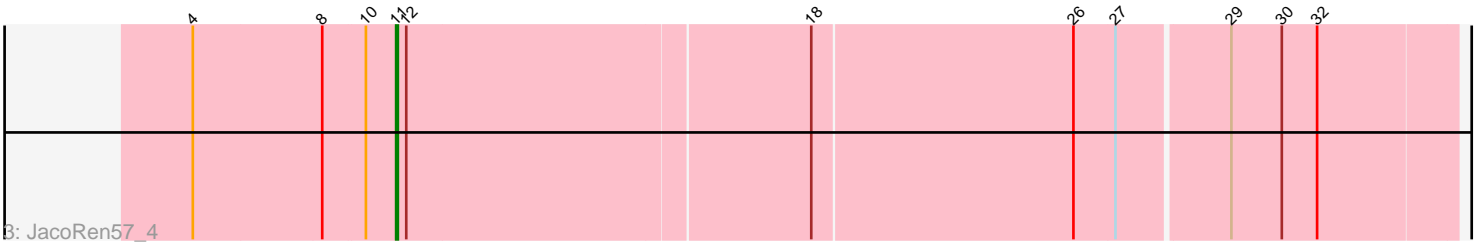
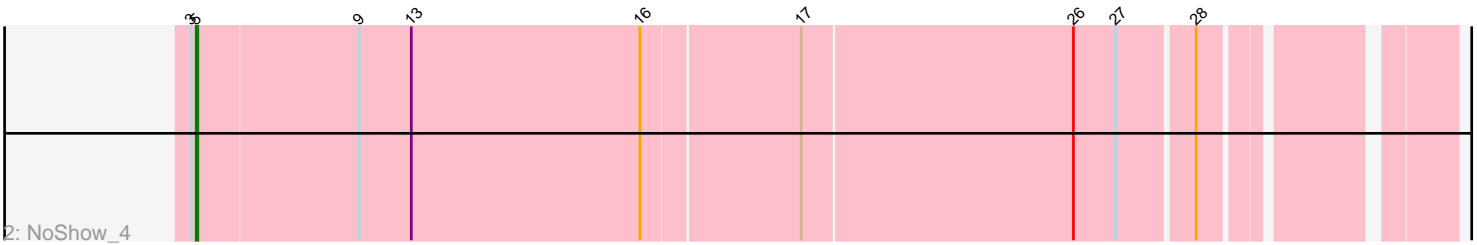
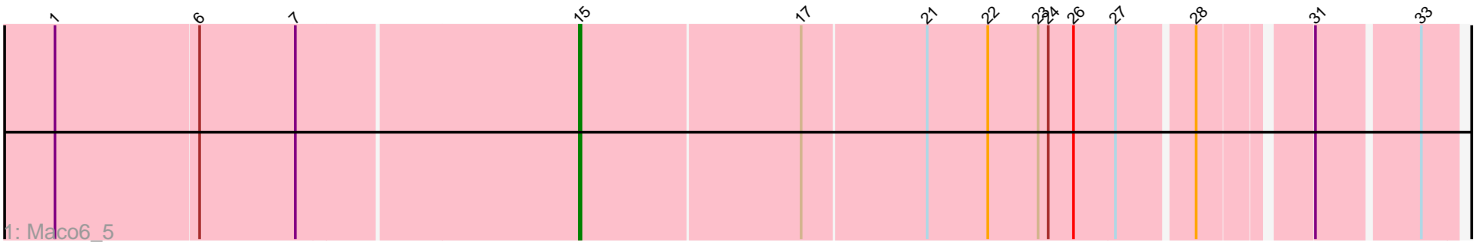


Pham 281211



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 281211 Report

This analysis was run 02/07/26 on database version 634.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 281211 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Maco6\_5
- Track 2 : NoShow\_4
- Track 3 : JacoRen57\_4
- Track 4 : 8UZL\_7
- Track 5 : Muddy\_7
- Track 6 : Confidence\_4, BeeGee\_4

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

Genes that call this "Most Annotated" start:

- BeeGee\_4, Confidence\_4,

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

•

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

- 8UZL\_7, JacoRen57\_4, Maco6\_5, Muddy\_7, NoShow\_4,

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

Start 2:

- Found in 2 of 7 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BeeGee\_4 (CY5), Confidence\_4 (CY1),

Start 5:

- Found in 1 of 7 ( 14.3% ) 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: NoShow\_4 (AB),

Start 6:

- Found in 3 of 7 ( 42.9% ) 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: Muddy\_7 (AB),

Start 11:

- Found in 1 of 7 ( 14.3% ) 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: JacoRen57\_4 (AB),

Start 15:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 66.7% of time when present
- Phage (with cluster) where this start called: 8UZL\_7 (AB), Maco6\_5 (AB),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CY1, AB, CY5,

Info for manual annotations of cluster AB:

- Start number 5 was manually annotated 1 time for cluster AB.
- Start number 6 was manually annotated 1 time for cluster AB.
- Start number 11 was manually annotated 1 time for cluster AB.
- Start number 15 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster CY1:

- Start number 2 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY5:

- Start number 2 was manually annotated 1 time for cluster CY5.

### **Gene Information:**

Gene: 8UZL\_7 Start: 5062, Stop: 5550, Start Num: 15

Candidate Starts for 8UZL\_7:

(Start: 6 @4843 has 1 MA's), (7, 4900), (Start: 15 @5062 has 1 MA's), (21, 5263), (22, 5299), (23, 5329), (24, 5335), (26, 5350), (27, 5374), (28, 5416), (31, 5473), (33, 5530),

Gene: BeeGee\_4 Start: 3710, Stop: 4522, Start Num: 2

Candidate Starts for BeeGee\_4:

(Start: 2 @3710 has 2 MA's), (14, 3950), (19, 4115), (20, 4154), (25, 4241),

Gene: Confidence\_4 Start: 3710, Stop: 4522, Start Num: 2

Candidate Starts for Confidence\_4:

(Start: 2 @3710 has 2 MA's), (14, 3950), (19, 4115), (20, 4154), (25, 4241),

Gene: JacoRen57\_4 Start: 3951, Stop: 4562, Start Num: 11

Candidate Starts for JacoRen57\_4:

(4, 3834), (8, 3909), (10, 3933), (Start: 11 @3951 has 1 MA's), (12, 3957), (18, 4191), (26, 4344), (27, 4368), (29, 4431), (30, 4461), (32, 4482),

Gene: Maco6\_5 Start: 4321, Stop: 4809, Start Num: 15

Candidate Starts for Maco6\_5:

(1, 4018), (Start: 6 @4102 has 1 MA's), (7, 4159), (Start: 15 @4321 has 1 MA's), (17, 4450), (21, 4522), (22, 4558), (23, 4588), (24, 4594), (26, 4609), (27, 4633), (28, 4675), (31, 4732), (33, 4789),

Gene: Muddy\_7 Start: 5056, Stop: 5763, Start Num: 6

Candidate Starts for Muddy\_7:

(Start: 6 @5056 has 1 MA's), (7, 5113), (Start: 15 @5275 has 1 MA's), (17, 5404), (21, 5476), (22, 5512), (23, 5542), (24, 5548), (26, 5563), (27, 5587), (28, 5629), (31, 5686), (33, 5743),

Gene: NoShow\_4 Start: 3865, Stop: 4563, Start Num: 5

Candidate Starts for NoShow\_4:

(3, 3862), (Start: 5 @3865 has 1 MA's), (9, 3958), (13, 3988), (16, 4123), (17, 4213), (26, 4372), (27, 4396), (28, 4438),