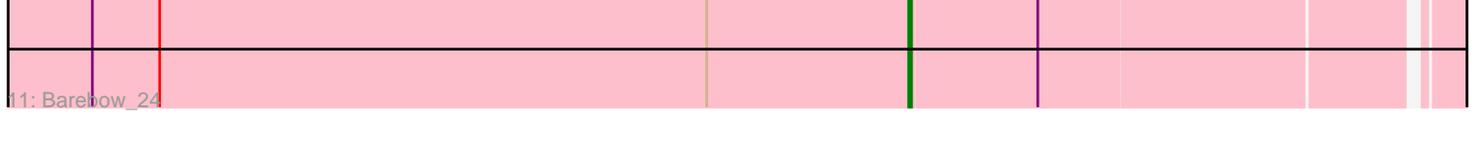
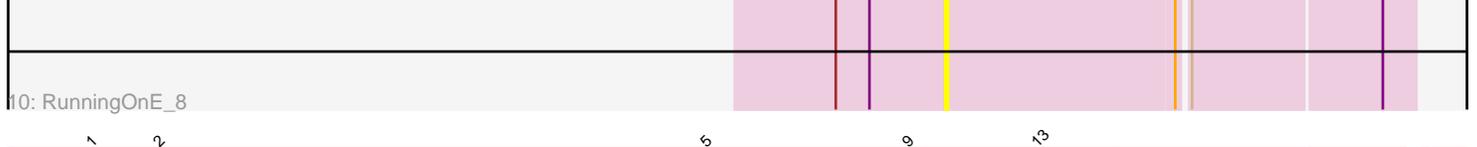
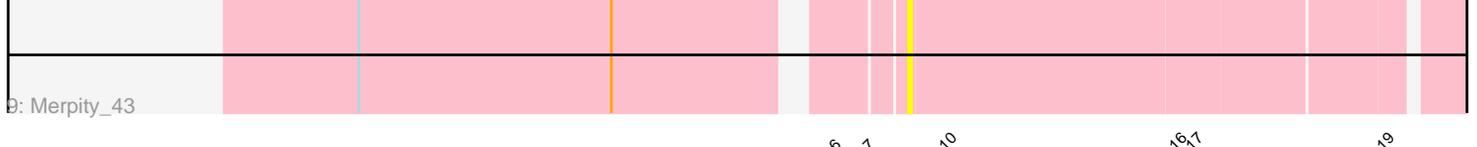
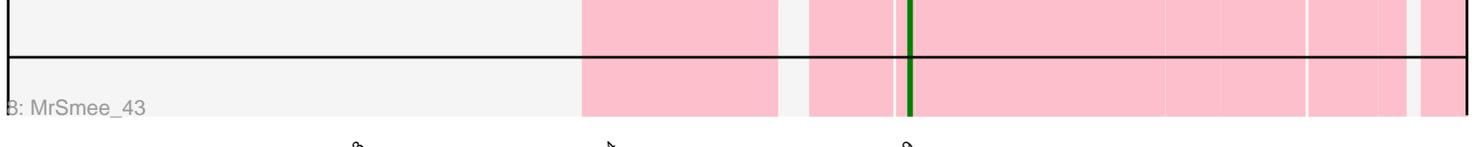
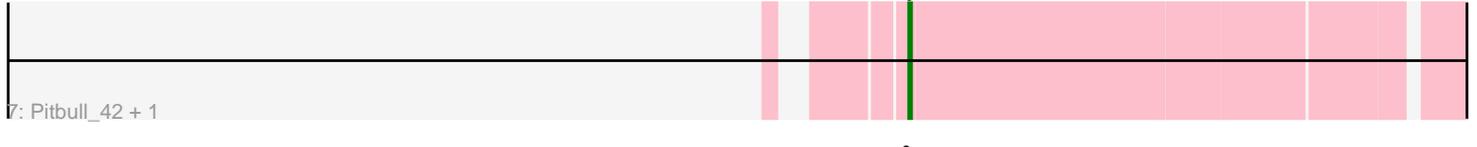
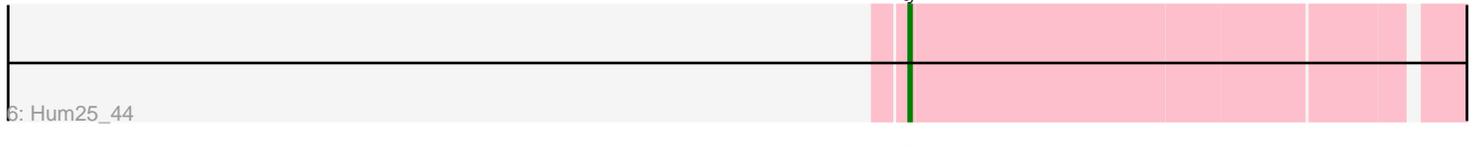
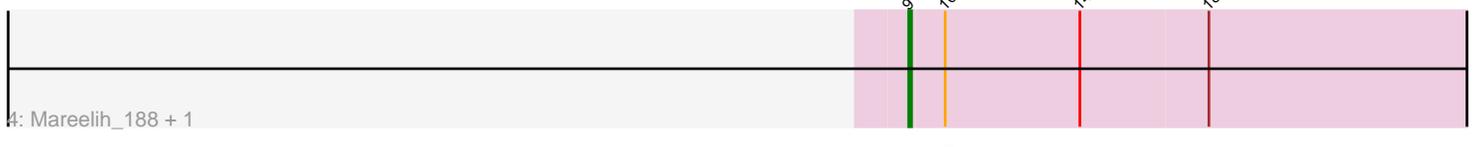
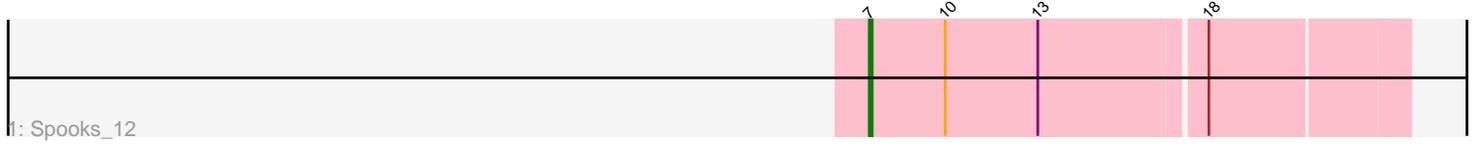


Pham 289869



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 289869 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289869 has 14 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Spooks\_12
- Track 2 : Success\_12
- Track 3 : Forza\_191, BlueNGold\_187
- Track 4 : Mareelih\_188, Boopy\_191
- Track 5 : GMA2\_95
- Track 6 : Hum25\_44
- Track 7 : Pitbull\_42, Skitty\_38
- Track 8 : MrSmee\_43
- Track 9 : Merpity\_43
- Track 10 : RunningOnE\_8
- Track 11 : Barebow\_24

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

The start number called the most often in the published annotations is 9, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barebow\_24, Boopy\_191, Hum25\_44, Mareelih\_188, Merpity\_43, MrSmee\_43, Pitbull\_42, Skitty\_38,

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

- BlueNGold\_187, Forza\_191,

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

- GMA2\_95, RunningOnE\_8, Spooks\_12, Success\_12,

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

Start 7:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Spooks\_12 (BT), Success\_12 (BT),

Start 8:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2\_95 (DS),

Start 9:

- Found in 10 of 14 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Barebow\_24 (singleton), Boopy\_191 (DS), Hum25\_44 (FQ), Mareelih\_188 (DS), Merpity\_43 (FQ), MrSmee\_43 (FQ), Pitbull\_42 (FQ), Skitty\_38 (FQ),

Start 10:

- Found in 7 of 14 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 42.9% of time when present
- Phage (with cluster) where this start called: BlueNGold\_187 (DS), Forza\_191 (DS), RunningOnE\_8 (UNK),

**Summary by clusters:**

There are 5 clusters represented in this pham: BT, FQ, singleton, UNK, DS,

Info for manual annotations of cluster BT:

- Start number 7 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster DS:

- Start number 9 was manually annotated 2 times for cluster DS.
- Start number 10 was manually annotated 2 times for cluster DS.

Info for manual annotations of cluster FQ:

- Start number 9 was manually annotated 4 times for cluster FQ.

**Gene Information:**

Gene: Barebow\_24 Start: 17257, Stop: 17445, Start Num: 9

Candidate Starts for Barebow\_24:

(1, 16966), (2, 16990), (5, 17185), (Start: 9 @17257 has 7 MA's), (13, 17302),

Gene: BlueNGold\_187 Start: 109354, Stop: 109548, Start Num: 10

Candidate Starts for BlueNGold\_187:

(Start: 9 @109342 has 7 MA's), (Start: 10 @109354 has 2 MA's), (14, 109402), (18, 109447),

Gene: Boopy\_191 Start: 109353, Stop: 109559, Start Num: 9

Candidate Starts for Boopy\_191:

(Start: 9 @109353 has 7 MA's), (Start: 10 @109365 has 2 MA's), (14, 109413), (18, 109458),

Gene: Forza\_191 Start: 109282, Stop: 109476, Start Num: 10  
Candidate Starts for Forza\_191:  
(Start: 9 @109270 has 7 MA's), (Start: 10 @109282 has 2 MA's), (14, 109330), (18, 109375),

Gene: GMA2\_95 Start: 87367, Stop: 87170, Start Num: 8  
Candidate Starts for GMA2\_95:  
(8, 87367), (Start: 10 @87349 has 2 MA's),

Gene: Hum25\_44 Start: 27639, Stop: 27827, Start Num: 9  
Candidate Starts for Hum25\_44:  
(Start: 9 @27639 has 7 MA's),

Gene: Mareelih\_188 Start: 108788, Stop: 108994, Start Num: 9  
Candidate Starts for Mareelih\_188:  
(Start: 9 @108788 has 7 MA's), (Start: 10 @108800 has 2 MA's), (14, 108848), (18, 108893),

Gene: Merpity\_43 Start: 28039, Stop: 28227, Start Num: 9  
Candidate Starts for Merpity\_43:  
(3, 27859), (4, 27949), (Start: 9 @28039 has 7 MA's),

Gene: MrSmee\_43 Start: 28469, Stop: 28657, Start Num: 9  
Candidate Starts for MrSmee\_43:  
(Start: 9 @28469 has 7 MA's),

Gene: Pitbull\_42 Start: 26865, Stop: 27053, Start Num: 9  
Candidate Starts for Pitbull\_42:  
(Start: 9 @26865 has 7 MA's),

Gene: RunningOnE\_8 Start: 3386, Stop: 3225, Start Num: 10  
Candidate Starts for RunningOnE\_8:  
(6, 3425), (Start: 7 @3413 has 2 MA's), (Start: 10 @3386 has 2 MA's), (16, 3305), (17, 3302), (19, 3236),

Gene: Skitty\_38 Start: 26378, Stop: 26566, Start Num: 9  
Candidate Starts for Skitty\_38:  
(Start: 9 @26378 has 7 MA's),

Gene: Spooks\_12 Start: 9089, Stop: 8904, Start Num: 7  
Candidate Starts for Spooks\_12:  
(Start: 7 @9089 has 2 MA's), (Start: 10 @9062 has 2 MA's), (13, 9029), (18, 8972),

Gene: Success\_12 Start: 8329, Stop: 8147, Start Num: 7  
Candidate Starts for Success\_12:  
(Start: 7 @8329 has 2 MA's), (11, 8281), (12, 8278), (15, 8254), (17, 8221),