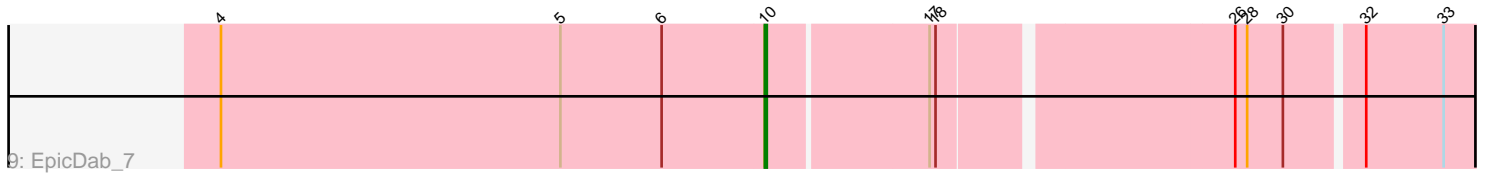
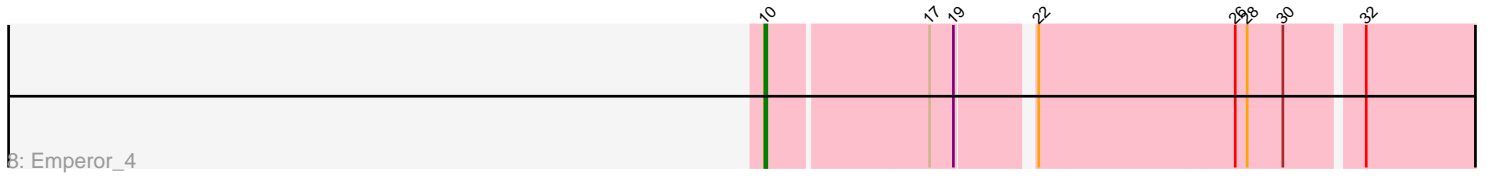
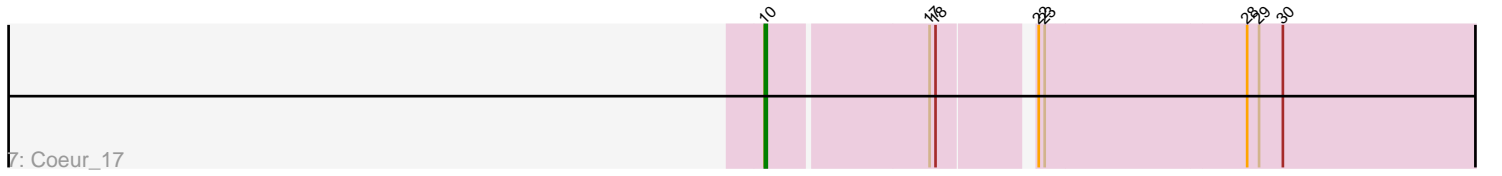
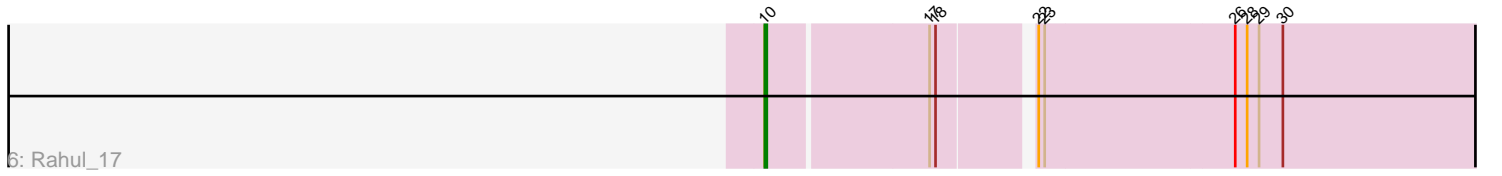
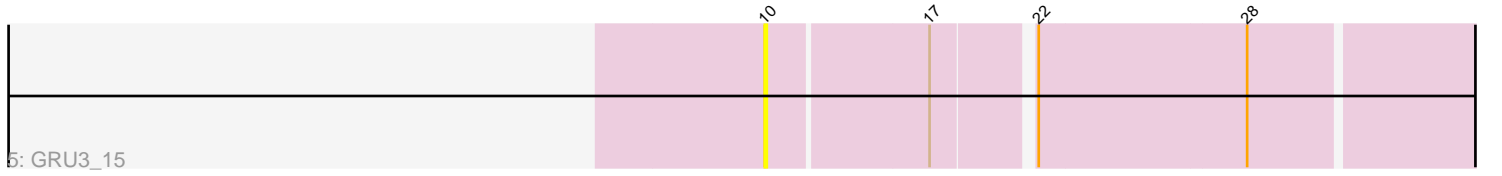
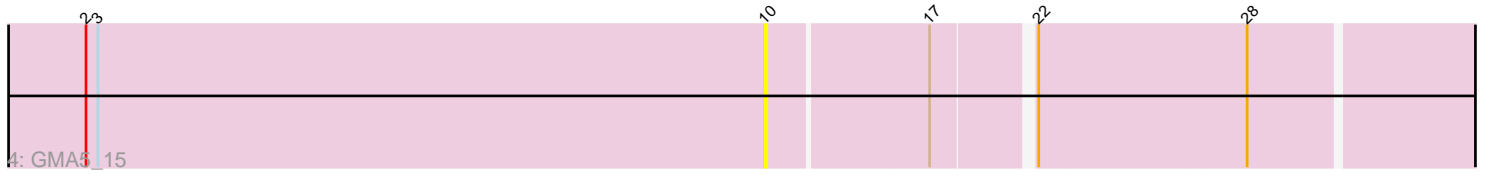
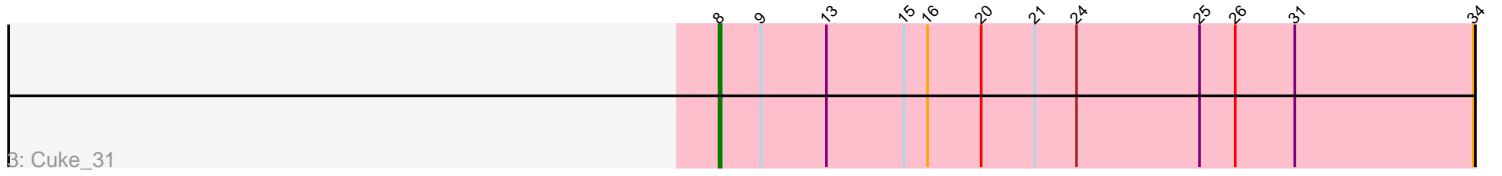
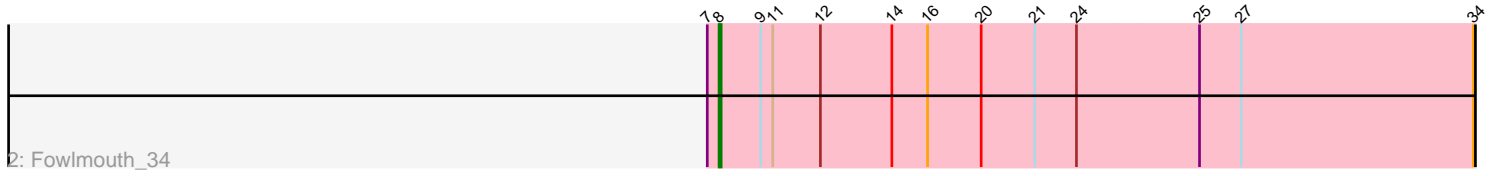
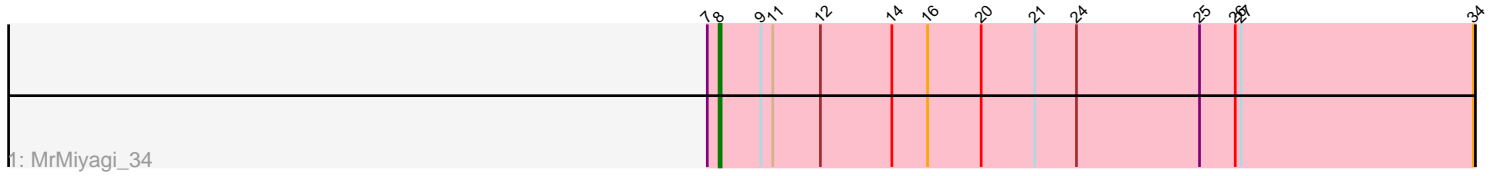


# Zoomed Pham 305516



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 305516 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305516 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : MrMiyagi\_34
- Track 2 : Fowlmouth\_34
- Track 3 : Cuke\_31
- Track 4 : GMA5\_15
- Track 5 : GRU3\_15
- Track 6 : Rahul\_17
- Track 7 : Coeur\_17
- Track 8 : Emperor\_4
- Track 9 : EpicDab\_7

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

The start number called the most often in the published annotations is 10, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Coeur\_17, Emperor\_4, EpicDab\_7, GMA5\_15, GRU3\_15, Rahul\_17,

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

- 

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

- Cuke\_31, Fowlmouth\_34, MrMiyagi\_34,

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

Start 8:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke\_31 (AC), Fowlmouth\_34 (AC), MrMiyagi\_34 (AC),

Start 10:

- Found in 6 of 9 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coeur\_17 (CW2), Emperor\_4 (DM), EpicDab\_7 (DM), GMA5\_15 (CW2), GRU3\_15 (CW2), Rahul\_17 (CW2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AC, CW2, DM,

Info for manual annotations of cluster AC:

- Start number 8 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster CW2:

- Start number 10 was manually annotated 2 times for cluster CW2.

Info for manual annotations of cluster DM:

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

### **Gene Information:**

Gene: Coeur\_17 Start: 11931, Stop: 12794, Start Num: 10

Candidate Starts for Coeur\_17:

(Start: 10 @11931 has 4 MA's), (17, 12009), (18, 12012), (22, 12054), (23, 12057), (28, 12156), (29, 12162), (30, 12174), (36, 12285), (45, 12477), (47, 12528), (48, 12537), (52, 12564), (60, 12675),

Gene: Cuke\_31 Start: 27339, Stop: 28265, Start Num: 8

Candidate Starts for Cuke\_31:

(Start: 8 @27339 has 3 MA's), (9, 27360), (13, 27393), (15, 27432), (16, 27444), (20, 27471), (21, 27498), (24, 27519), (25, 27579), (26, 27597), (31, 27627), (34, 27717), (36, 27732), (38, 27750), (40, 27816), (44, 27897), (48, 27984), (50, 27996), (54, 28023),

Gene: Emperor\_4 Start: 2151, Stop: 2993, Start Num: 10

Candidate Starts for Emperor\_4:

(Start: 10 @2151 has 4 MA's), (17, 2229), (19, 2241), (22, 2274), (26, 2370), (28, 2376), (30, 2394), (32, 2430), (48, 2745), (61, 2880),

Gene: EpicDab\_7 Start: 4348, Stop: 5202, Start Num: 10

Candidate Starts for EpicDab\_7:

(4, 4075), (5, 4246), (6, 4297), (Start: 10 @4348 has 4 MA's), (17, 4426), (18, 4429), (26, 4567), (28, 4573), (30, 4591), (32, 4627), (33, 4666), (35, 4693), (42, 4834), (45, 4885), (47, 4936), (48, 4945), (56, 4993), (60, 5083),

Gene: Fowlmouth\_34 Start: 30830, Stop: 31756, Start Num: 8

Candidate Starts for Fowlmouth\_34:

(7, 30824), (Start: 8 @30830 has 3 MA's), (9, 30851), (11, 30857), (12, 30881), (14, 30917), (16, 30935), (20, 30962), (21, 30989), (24, 31010), (25, 31070), (27, 31091), (34, 31208), (38, 31241), (40, 31307), (44, 31388), (48, 31475), (51, 31496), (53, 31511), (54, 31514), (57, 31556), (58, 31559),

Gene: GMA5\_15 Start: 12085, Stop: 12933, Start Num: 10

Candidate Starts for GMA5\_15:

(1, 11686), (2, 11743), (3, 11749), (Start: 10 @12085 has 4 MA's), (17, 12163), (22, 12208), (28, 12310), (39, 12511), (43, 12583), (45, 12616), (48, 12676), (49, 12682), (62, 12865),

Gene: GRU3\_15 Start: 12090, Stop: 12938, Start Num: 10

Candidate Starts for GRU3\_15:

(Start: 10 @12090 has 4 MA's), (17, 12168), (22, 12213), (28, 12315), (47, 12672), (48, 12681), (59, 12783), (62, 12870),

Gene: MrMiyagi\_34 Start: 30841, Stop: 31767, Start Num: 8

Candidate Starts for MrMiyagi\_34:

(7, 30835), (Start: 8 @30841 has 3 MA's), (9, 30862), (11, 30868), (12, 30892), (14, 30928), (16, 30946), (20, 30973), (21, 31000), (24, 31021), (25, 31081), (26, 31099), (27, 31102), (34, 31219), (37, 31249), (38, 31252), (40, 31318), (44, 31399), (46, 31429), (48, 31486), (53, 31522), (54, 31525), (57, 31567), (58, 31570),

Gene: Rahul\_17 Start: 11952, Stop: 12815, Start Num: 10

Candidate Starts for Rahul\_17:

(Start: 10 @11952 has 4 MA's), (17, 12030), (18, 12033), (22, 12075), (23, 12078), (26, 12171), (28, 12177), (29, 12183), (30, 12195), (36, 12306), (41, 12399), (45, 12498), (47, 12549), (48, 12558), (54, 12594), (55, 12597),