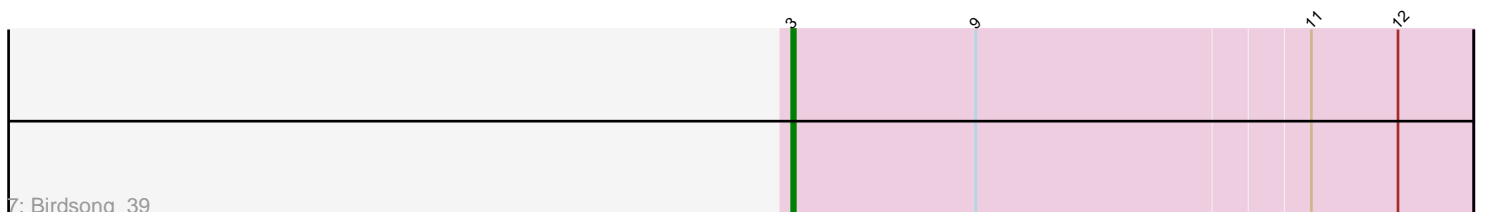
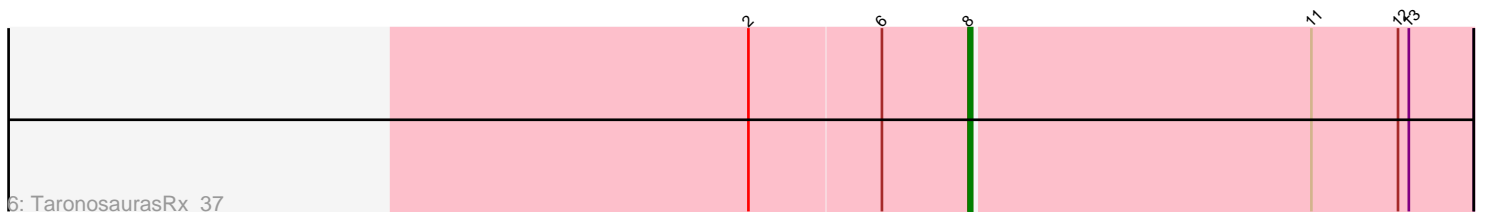
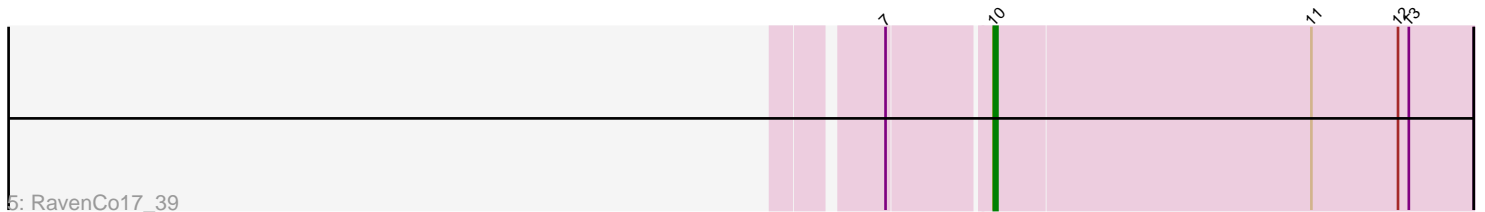
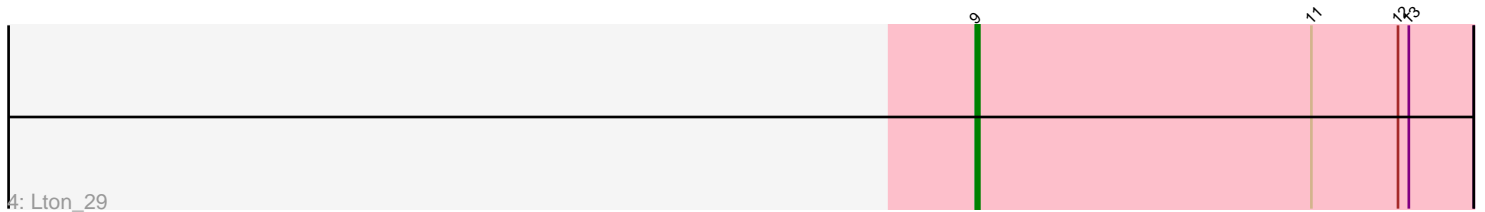
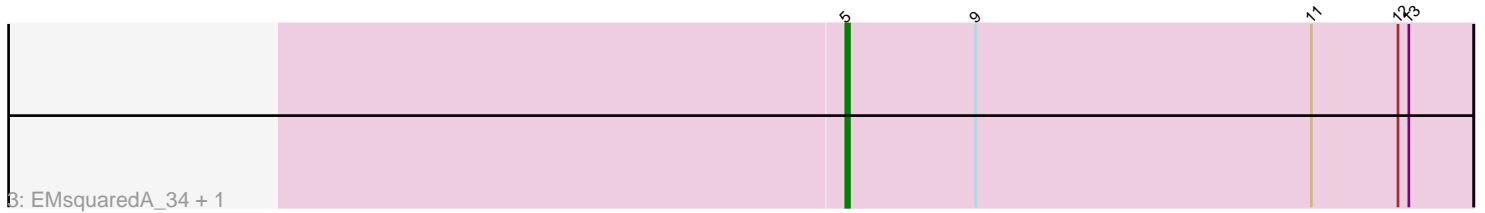
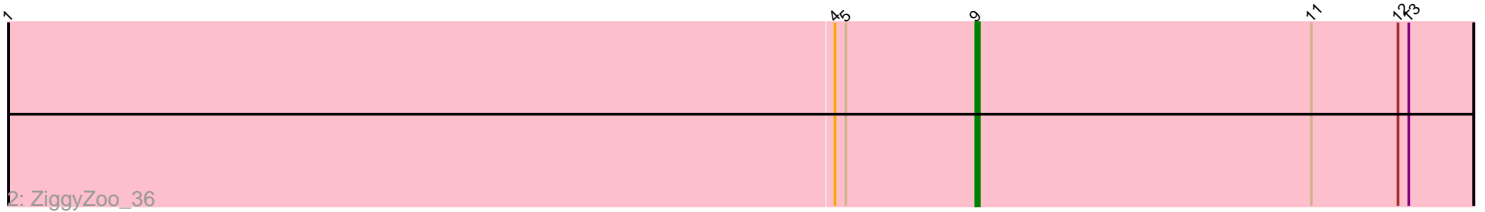
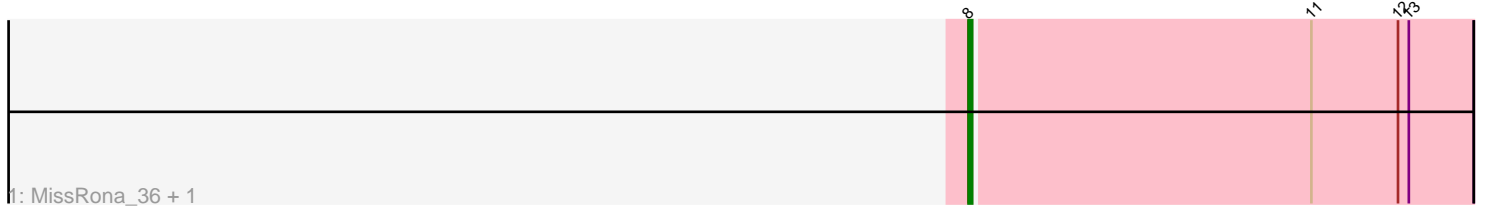


Pham 300523



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 300523 Report

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

Pham number 300523 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : MissRona\_36, Gambino\_38
- Track 2 : ZiggyZoo\_36
- Track 3 : EMSquaredA\_34, Marteena\_33
- Track 4 : Lton\_29
- Track 5 : RavenCo17\_39
- Track 6 : TaronosaurusRx\_37
- Track 7 : Birdsong\_39

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

The start number called the most often in the published annotations is 8, it was called in 3 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Gambino\_38, MissRona\_36, TaronosaurusRx\_37,

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

- 

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

- Birdsong\_39, EMSquaredA\_34, Lton\_29, Marteena\_33, RavenCo17\_39, ZiggyZoo\_36,

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

Start 3:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Birdsong\_39 (DN),

Start 5:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 9

- Called 66.7% of time when present
- Phage (with cluster) where this start called: EMSquaredA\_34 (CY1), Marteena\_33 (CY1),

Start 8:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gambino\_38 (CV), MissRona\_36 (CV), TaronosaurusRx\_37 (DB),

Start 9:

- Found in 5 of 9 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Lton\_29 (CZ), ZiggyZoo\_36 (CV),

Start 10:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RavenCo17\_39 (CZ8),

### **Summary by clusters:**

There are 6 clusters represented in this pham: DN, CZ8, DB, CY1, CZ, CV,

Info for manual annotations of cluster CV:

- Start number 8 was manually annotated 2 times for cluster CV.
- Start number 9 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 5 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 9 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ8:

- Start number 10 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:

- Start number 8 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DN:

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

### **Gene Information:**

Gene: Birdsong\_39 Start: 30012, Stop: 30197, Start Num: 3

Candidate Starts for Birdsong\_39:

(Start: 3 @30012 has 1 MA's), (Start: 9 @30063 has 2 MA's), (11, 30153), (12, 30177),

Gene: EMSquaredA\_34 Start: 27140, Stop: 27313, Start Num: 5

Candidate Starts for EMSquaredA\_34:

(Start: 5 @27140 has 2 MA's), (Start: 9 @27176 has 2 MA's), (11, 27269), (12, 27293), (13, 27296),

Gene: Gambino\_38 Start: 29181, Stop: 29318, Start Num: 8

Candidate Starts for Gambino\_38:

(Start: 8 @29181 has 3 MA's), (11, 29274), (12, 29298), (13, 29301),

Gene: Lton\_29 Start: 23357, Stop: 23494, Start Num: 9

Candidate Starts for Lton\_29:

(Start: 9 @23357 has 2 MA's), (11, 23450), (12, 23474), (13, 23477),

Gene: Marteena\_33 Start: 27140, Stop: 27313, Start Num: 5

Candidate Starts for Marteena\_33:

(Start: 5 @27140 has 2 MA's), (Start: 9 @27176 has 2 MA's), (11, 27269), (12, 27293), (13, 27296),

Gene: MissRona\_36 Start: 29182, Stop: 29319, Start Num: 8

Candidate Starts for MissRona\_36:

(Start: 8 @29182 has 3 MA's), (11, 29275), (12, 29299), (13, 29302),

Gene: RavenCo17\_39 Start: 30646, Stop: 30777, Start Num: 10

Candidate Starts for RavenCo17\_39:

(7, 30622), (Start: 10 @30646 has 1 MA's), (11, 30733), (12, 30757), (13, 30760),

Gene: TaronosaurusRx\_37 Start: 28968, Stop: 29105, Start Num: 8

Candidate Starts for TaronosaurusRx\_37:

(2, 28908), (6, 28944), (Start: 8 @28968 has 3 MA's), (11, 29061), (12, 29085), (13, 29088),

Gene: ZiggyZoo\_36 Start: 29124, Stop: 29261, Start Num: 9

Candidate Starts for ZiggyZoo\_36:

(1, 28857), (4, 29085), (Start: 5 @29088 has 2 MA's), (Start: 9 @29124 has 2 MA's), (11, 29217), (12, 29241), (13, 29244),