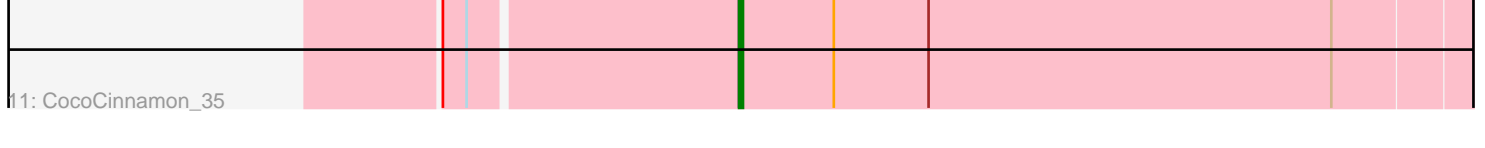
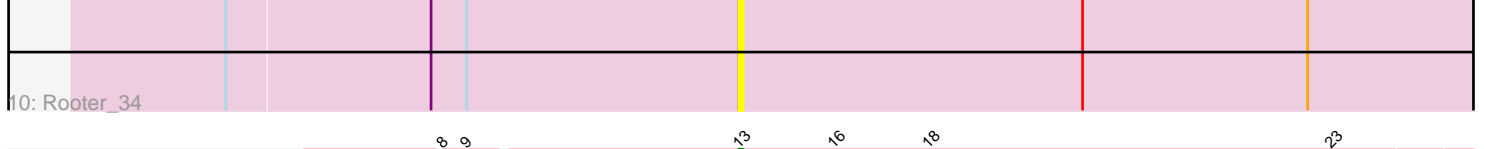
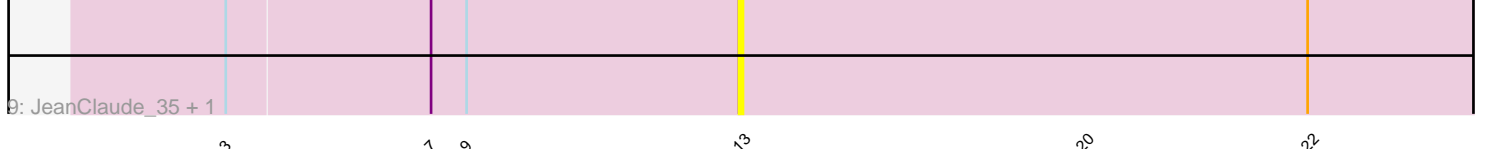
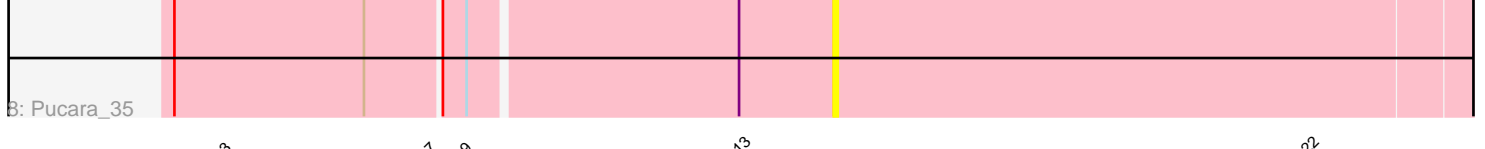
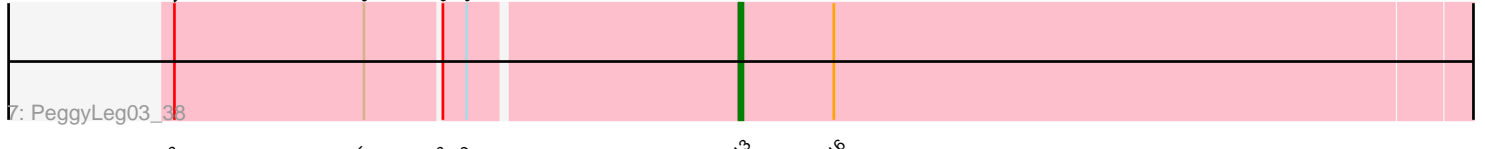
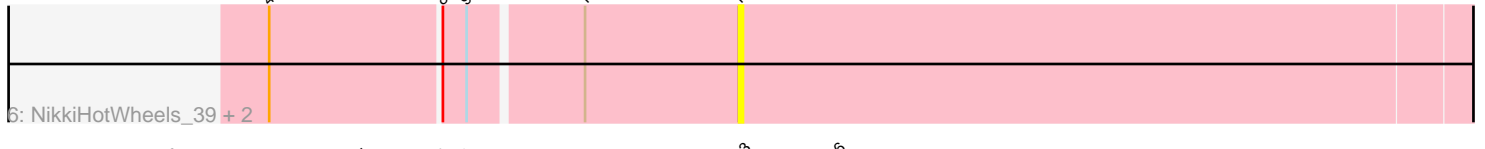
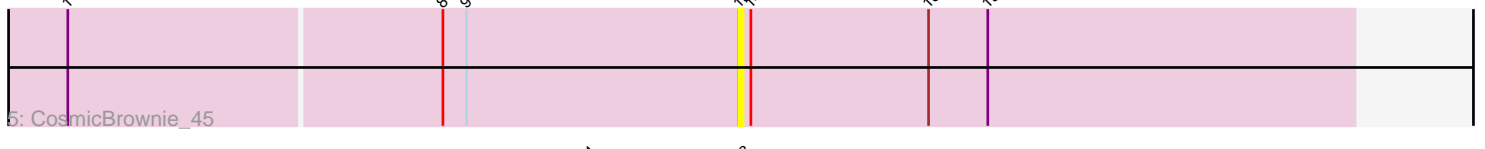
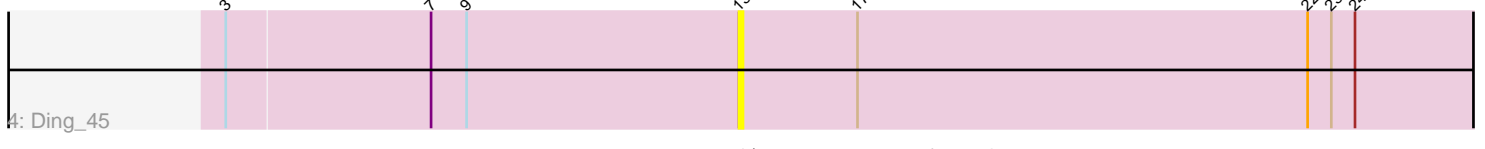
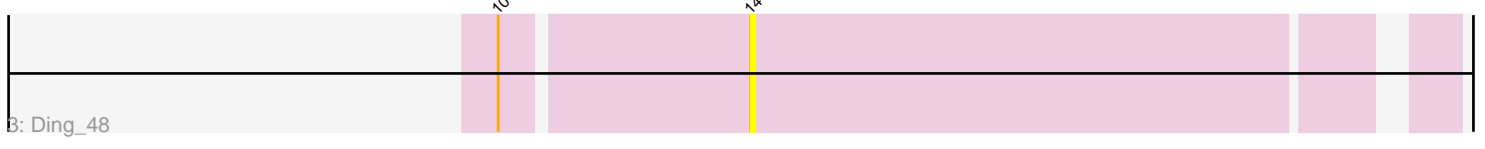
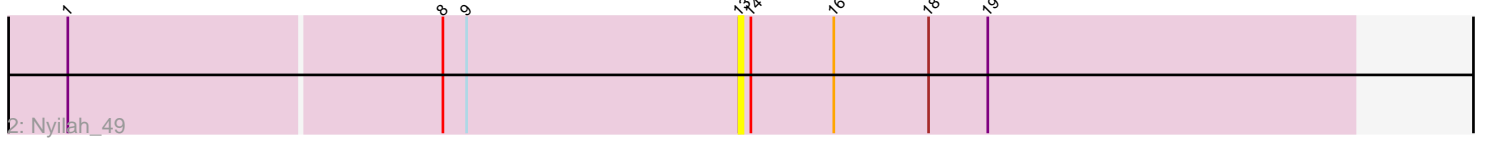
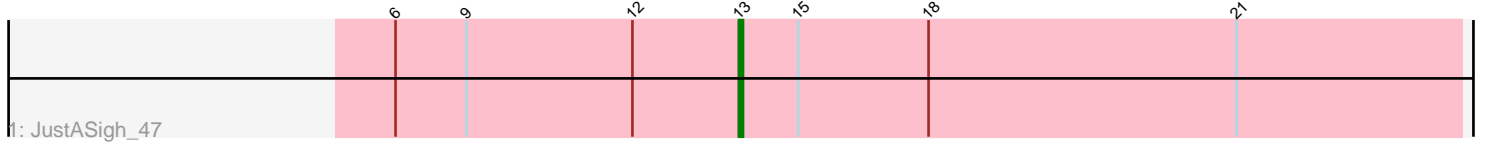


Pham 297079



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 297079 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297079 has 14 members, 11 are drafts.

Phages represented in each track:

- Track 1 : JustASigh\_47
- Track 2 : Nyilah\_49
- Track 3 : Ding\_48
- Track 4 : Ding\_45
- Track 5 : CosmicBrownie\_45
- Track 6 : NikkiHotWheels\_39, HotPotato\_37, Henrique\_38
- Track 7 : PeggyLeg03\_38
- Track 8 : Pucara\_35
- Track 9 : JeanClaude\_35, Gibbzilla\_39
- Track 10 : Rooter\_34
- Track 11 : CocoCinnamon\_35

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

The start number called the most often in the published annotations is 13, it was called in 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CocoCinnamon\_35, CosmicBrownie\_45, Ding\_45, Gibbzilla\_39, Henrique\_38, HotPotato\_37, JeanClaude\_35, JustASigh\_47, NikkiHotWheels\_39, Nyilah\_49, PeggyLeg03\_38, Rooter\_34,

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

- Pucara\_35,

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

- Ding\_48,

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

Start 13:

- Found in 13 of 14 ( 92.9% ) of genes in pham
- Manual Annotations of this start: 3 of 3
- Called 92.3% of time when present

- Phage (with cluster) where this start called: CocoCinnamon\_35 (FO), CosmicBrownie\_45 (AY), Ding\_45 (AY), Gibbzilla\_39 (FB), Henrique\_38 (FA), HotPotato\_37 (FA), JeanClaude\_35 (FB), JustASigh\_47 (AH), NikkiHotWheels\_39 (FA), Nyilah\_49 (AY), PeggyLeg03\_38 (FA), Rooter\_34 (FB),

Start 14:

- Found in 3 of 14 ( 21.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Ding\_48 (AY),

Start 16:

- Found in 4 of 14 ( 28.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Pucara\_35 (FA),

### **Summary by clusters:**

There are 5 clusters represented in this pham: AY, AH, FB, FO, FA,

Info for manual annotations of cluster AH:

- Start number 13 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster FA:

- Start number 13 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FO:

- Start number 13 was manually annotated 1 time for cluster FO.

### **Gene Information:**

Gene: CocoCinnamon\_35 Start: 25963, Stop: 25775, Start Num: 13

Candidate Starts for CocoCinnamon\_35:

(8, 26035), (9, 26029), (Start: 13 @25963 has 3 MA's), (16, 25939), (18, 25915), (23, 25813),

Gene: CosmicBrownie\_45 Start: 29892, Stop: 29737, Start Num: 13

Candidate Starts for CosmicBrownie\_45:

(1, 30060), (8, 29967), (9, 29961), (Start: 13 @29892 has 3 MA's), (14, 29889), (18, 29844), (19, 29829),

Gene: Ding\_48 Start: 30824, Stop: 30991, Start Num: 14

Candidate Starts for Ding\_48:

(10, 30764), (14, 30824),

Gene: Ding\_45 Start: 29827, Stop: 29618, Start Num: 13

Candidate Starts for Ding\_45:

(3, 29956), (7, 29905), (9, 29896), (Start: 13 @29827 has 3 MA's), (17, 29797), (22, 29683), (23, 29677), (24, 29671),

Gene: Gibbzilla\_39 Start: 25810, Stop: 25598, Start Num: 13

Candidate Starts for Gibbzilla\_39:

(3, 25939), (7, 25888), (9, 25879), (Start: 13 @25810 has 3 MA's), (22, 25666),

Gene: Henrique\_38 Start: 27474, Stop: 27286, Start Num: 13

Candidate Starts for Henrique\_38:

(4, 27588), (8, 27546), (9, 27540), (11, 27513), (Start: 13 @27474 has 3 MA's),

Gene: HotPotato\_37 Start: 28038, Stop: 27850, Start Num: 13

Candidate Starts for HotPotato\_37:

(4, 28152), (8, 28110), (9, 28104), (11, 28077), (Start: 13 @28038 has 3 MA's),

Gene: JeanClaude\_35 Start: 24303, Stop: 24091, Start Num: 13

Candidate Starts for JeanClaude\_35:

(3, 24432), (7, 24381), (9, 24372), (Start: 13 @24303 has 3 MA's), (22, 24159),

Gene: JustASigh\_47 Start: 34656, Stop: 34838, Start Num: 13

Candidate Starts for JustASigh\_47:

(6, 34569), (9, 34587), (12, 34629), (Start: 13 @34656 has 3 MA's), (15, 34671), (18, 34704), (21, 34782),

Gene: NikkiHotWheels\_39 Start: 27467, Stop: 27279, Start Num: 13

Candidate Starts for NikkiHotWheels\_39:

(4, 27581), (8, 27539), (9, 27533), (11, 27506), (Start: 13 @27467 has 3 MA's),

Gene: Nyilah\_49 Start: 29527, Stop: 29372, Start Num: 13

Candidate Starts for Nyilah\_49:

(1, 29695), (8, 29602), (9, 29596), (Start: 13 @29527 has 3 MA's), (14, 29524), (16, 29503), (18, 29479), (19, 29464),

Gene: PeggyLeg03\_38 Start: 28180, Stop: 27992, Start Num: 13

Candidate Starts for PeggyLeg03\_38:

(2, 28318), (5, 28270), (8, 28252), (9, 28246), (Start: 13 @28180 has 3 MA's), (16, 28156),

Gene: Pucara\_35 Start: 27761, Stop: 27597, Start Num: 16

Candidate Starts for Pucara\_35:

(2, 27923), (5, 27875), (8, 27857), (9, 27851), (Start: 13 @27785 has 3 MA's), (16, 27761),

Gene: Rooter\_34 Start: 24794, Stop: 24582, Start Num: 13

Candidate Starts for Rooter\_34:

(3, 24923), (7, 24872), (9, 24863), (Start: 13 @24794 has 3 MA's), (20, 24707), (22, 24650),