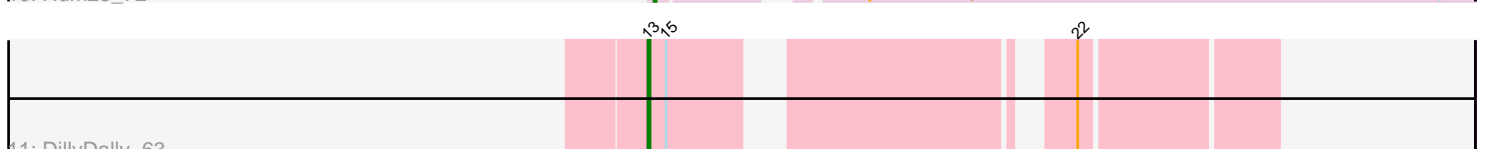
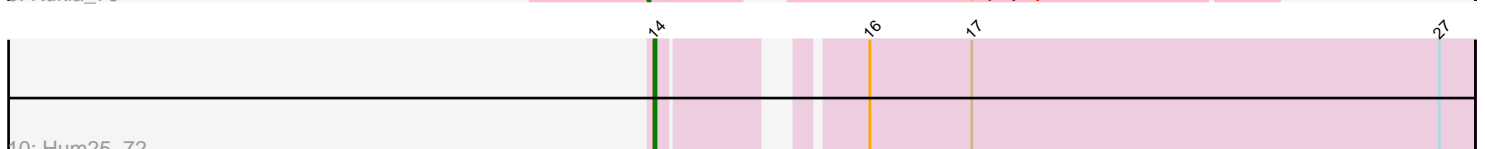
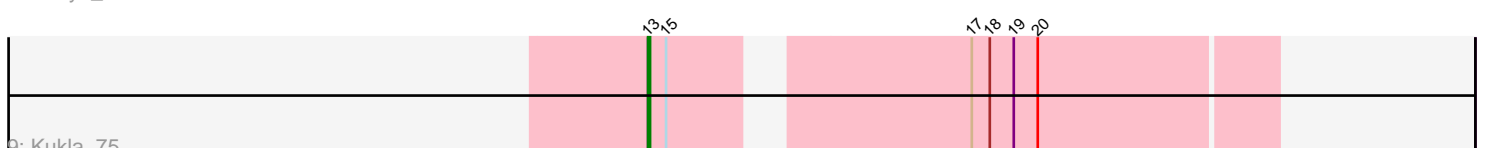
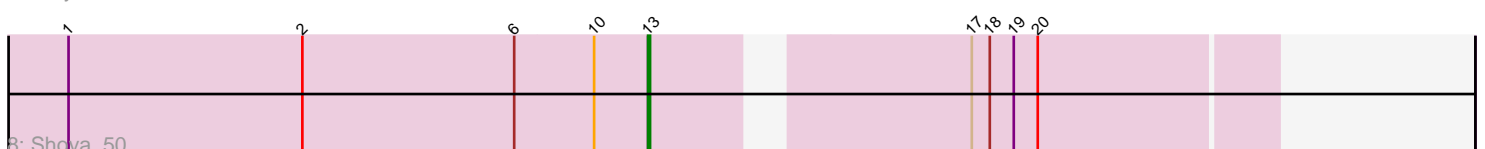
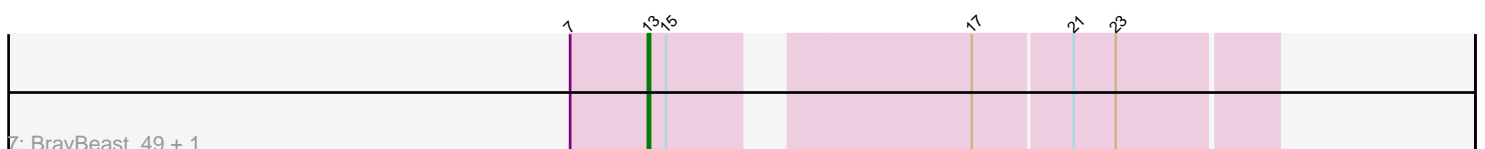
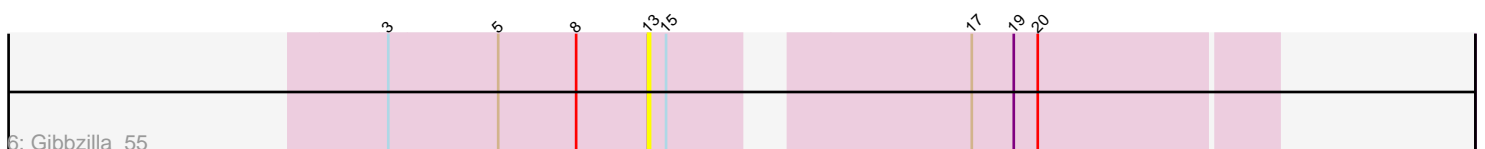
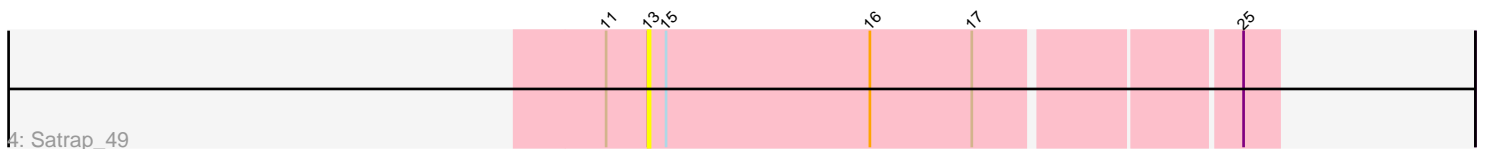
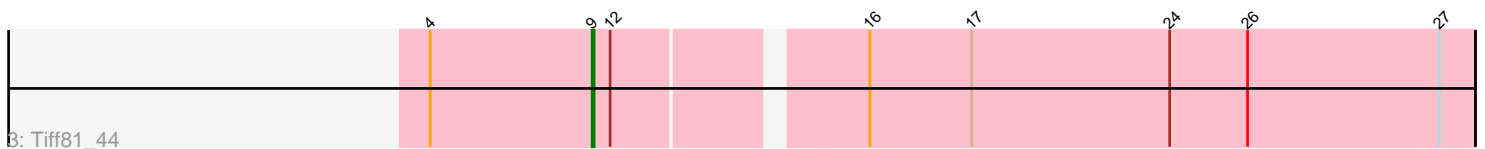
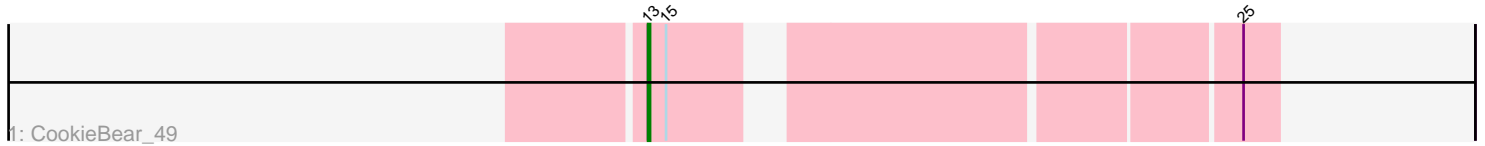


Pham 297130



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 297130 Report

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

Pham number 297130 has 12 members, 5 are drafts.

Phages represented in each track:

- Track 1 : CookieBear\_49
- Track 2 : NewKitty\_51
- Track 3 : Tiff81\_44
- Track 4 : Satrap\_49
- Track 5 : DarwinJr\_51
- Track 6 : Gibbzilla\_55
- Track 7 : BrayBeast\_49, Raqqa\_60
- Track 8 : Shoya\_50
- Track 9 : Kukla\_75
- Track 10 : Hum25\_72
- Track 11 : DillyDally\_63

### ***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 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BrayBeast\_49, CookieBear\_49, DillyDally\_63, Gibbzilla\_55, Kukla\_75, NewKitty\_51, Raqqa\_60, Satrap\_49, Shoya\_50,

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

- DarwinJr\_51,

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

- Hum25\_72, Tiff81\_44,

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

Start 9:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tiff81\_44 (AY),

Start 13:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 90.0% of time when present
- Phage (with cluster) where this start called: BrayBeast\_49 (FB), CookieBear\_49 (AY), DillyDally\_63 (singleton), Gibbzilla\_55 (FB), Kukla\_75 (FJ), NewKitty\_51 (AY), Raqqa\_60 (AY), Satrap\_49 (AY), Shoya\_50 (FB),

Start 14:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hum25\_72 (FQ),

Start 15:

- Found in 9 of 12 ( 75.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: DarwinJr\_51 (AY),

**Summary by clusters:**

There are 5 clusters represented in this pham: AY, FQ, FB, singleton, FJ,

Info for manual annotations of cluster AY:

- Start number 9 was manually annotated 1 time for cluster AY.
- Start number 13 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FB:

- Start number 13 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FJ:

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

Info for manual annotations of cluster FQ:

- Start number 14 was manually annotated 1 time for cluster FQ.

**Gene Information:**

Gene: BrayBeast\_49 Start: 28984, Stop: 29268, Start Num: 13

Candidate Starts for BrayBeast\_49:

(7, 28945), (Start: 13 @28984 has 5 MA's), (15, 28993), (17, 29122), (21, 29170), (23, 29191),

Gene: CookieBear\_49 Start: 30179, Stop: 30457, Start Num: 13

Candidate Starts for CookieBear\_49:

(Start: 13 @30179 has 5 MA's), (15, 30188), (25, 30440),

Gene: DarwinJr\_51 Start: 31100, Stop: 31480, Start Num: 15

Candidate Starts for DarwinJr\_51:

(Start: 13 @31091 has 5 MA's), (15, 31100), (17, 31229), (26, 31367),

Gene: DillyDally\_63 Start: 38118, Stop: 38381, Start Num: 13

Candidate Starts for DillyDally\_63:

(Start: 13 @38118 has 5 MA's), (15, 38127), (22, 38289),

Gene: Gibbzilla\_55 Start: 29845, Stop: 30132, Start Num: 13

Candidate Starts for Gibbzilla\_55:

(3, 29716), (5, 29770), (8, 29809), (Start: 13 @29845 has 5 MA's), (15, 29854), (17, 29983), (19, 30004), (20, 30016),

Gene: Hum25\_72 Start: 38173, Stop: 38556, Start Num: 14

Candidate Starts for Hum25\_72:

(Start: 14 @38173 has 1 MA's), (16, 38254), (17, 38305), (27, 38539),

Gene: Kukla\_75 Start: 42658, Stop: 42945, Start Num: 13

Candidate Starts for Kukla\_75:

(Start: 13 @42658 has 5 MA's), (15, 42667), (17, 42796), (18, 42805), (19, 42817), (20, 42829),

Gene: NewKitty\_51 Start: 30242, Stop: 30526, Start Num: 13

Candidate Starts for NewKitty\_51:

(Start: 13 @30242 has 5 MA's), (15, 30251), (21, 30428),

Gene: Raqqa\_60 Start: 33013, Stop: 33297, Start Num: 13

Candidate Starts for Raqqa\_60:

(7, 32974), (Start: 13 @33013 has 5 MA's), (15, 33022), (17, 33151), (21, 33199), (23, 33220),

Gene: Satrap\_49 Start: 30579, Stop: 30881, Start Num: 13

Candidate Starts for Satrap\_49:

(11, 30558), (Start: 13 @30579 has 5 MA's), (15, 30588), (16, 30690), (17, 30741), (25, 30864),

Gene: Shoya\_50 Start: 29154, Stop: 29441, Start Num: 13

Candidate Starts for Shoya\_50:

(1, 28866), (2, 28983), (6, 29088), (10, 29127), (Start: 13 @29154 has 5 MA's), (17, 29292), (18, 29301), (19, 29313), (20, 29325),

Gene: Tiff81\_44 Start: 28183, Stop: 28605, Start Num: 9

Candidate Starts for Tiff81\_44:

(4, 28102), (Start: 9 @28183 has 1 MA's), (12, 28192), (16, 28303), (17, 28354), (24, 28453), (26, 28492), (27, 28588),