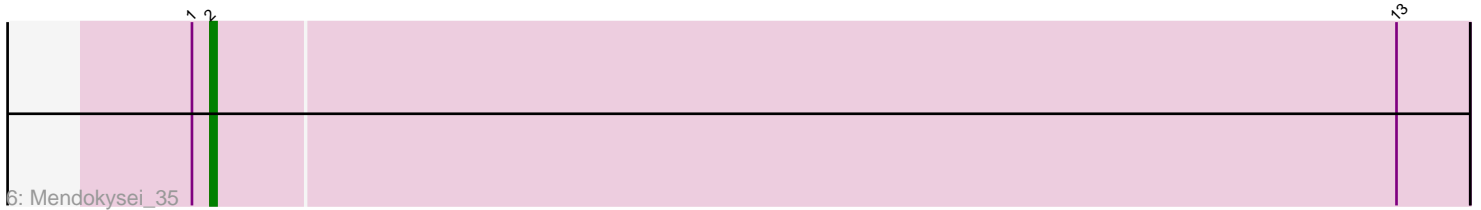
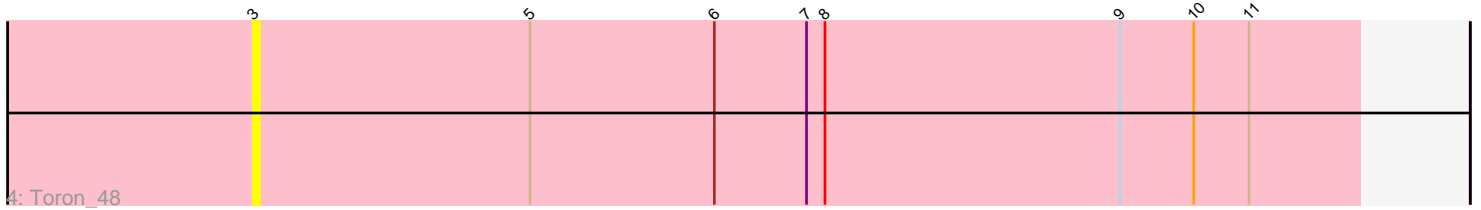
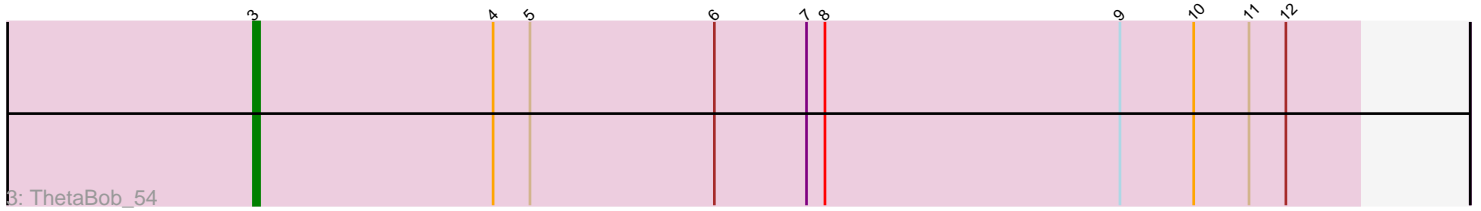
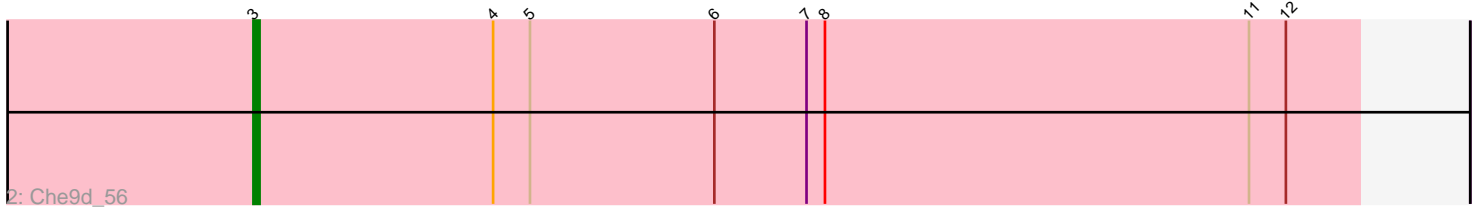
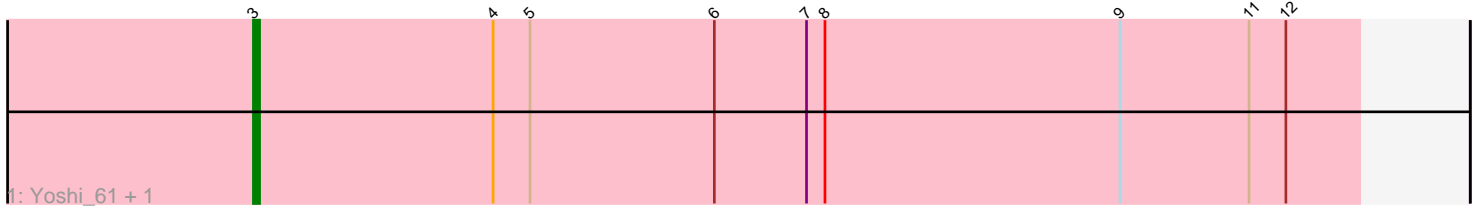


Pham 225009



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 225009 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225009 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Yoshi\_61, Demsculpinboyz\_59
- Track 2 : Che9d\_56
- Track 3 : ThetaBob\_54
- Track 4 : Toron\_48
- Track 5 : Nairb\_36, Ibrahim\_37, RonRayGun\_37, Whitty\_37, ZenTime222\_36, Bernal13\_37
- Track 6 : Mendokysei\_35
- Track 7 : Nette\_38

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bernal13\_37, Ibrahim\_37, Nairb\_36, Nette\_38, RonRayGun\_37, Whitty\_37, ZenTime222\_36,

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

- Mendokysei\_35,

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

- Che9d\_56, Demsculpinboyz\_59, ThetaBob\_54, Toron\_48, Yoshi\_61,

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

Start 1:

- Found in 8 of 13 ( 61.5% ) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Bernal13\_37 (T), Ibrahim\_37 (T), Nairb\_36 (T), Nette\_38 (T), RonRayGun\_37 (T), Whitty\_37 (T), ZenTime222\_36 (T),

Start 2:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mendokysei\_35 (T),

Start 3:

- Found in 5 of 13 ( 38.5% ) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che9d\_56 (F2), Demsculpinboyz\_59 (F2), ThetaBob\_54 (F4), Toron\_48 (F6), Yoshi\_61 (F2),

### **Summary by clusters:**

There are 4 clusters represented in this pham: F2, F4, T, F6,

Info for manual annotations of cluster F2:

- Start number 3 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 3 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster T:

- Start number 1 was manually annotated 6 times for cluster T.
- Start number 2 was manually annotated 1 time for cluster T.

### **Gene Information:**

Gene: Bernal13\_37 Start: 30311, Stop: 30517, Start Num: 1

Candidate Starts for Bernal13\_37:

(Start: 1 @30311 has 6 MA's), (13, 30506),

Gene: Che9d\_56 Start: 35970, Stop: 36149, Start Num: 3

Candidate Starts for Che9d\_56:

(Start: 3 @35970 has 4 MA's), (4, 36009), (5, 36015), (6, 36045), (7, 36060), (8, 36063), (11, 36132), (12, 36138),

Gene: Demsculpinboyz\_59 Start: 36079, Stop: 36258, Start Num: 3

Candidate Starts for Demsculpinboyz\_59:

(Start: 3 @36079 has 4 MA's), (4, 36118), (5, 36124), (6, 36154), (7, 36169), (8, 36172), (9, 36220), (11, 36241), (12, 36247),

Gene: Ibrahim\_37 Start: 30757, Stop: 30963, Start Num: 1

Candidate Starts for Ibrahim\_37:

(Start: 1 @30757 has 6 MA's), (13, 30952),

Gene: Mendokysei\_35 Start: 29852, Stop: 30055, Start Num: 2

Candidate Starts for Mendokysei\_35:

(Start: 1 @29849 has 6 MA's), (Start: 2 @29852 has 1 MA's), (13, 30044),

Gene: Nairb\_36 Start: 30311, Stop: 30517, Start Num: 1  
Candidate Starts for Nairb\_36:  
(Start: 1 @30311 has 6 MA's), (13, 30506),

Gene: Nette\_38 Start: 29858, Stop: 30064, Start Num: 1  
Candidate Starts for Nette\_38:  
(Start: 1 @29858 has 6 MA's), (Start: 2 @29861 has 1 MA's), (13, 30053),

Gene: RonRayGun\_37 Start: 30757, Stop: 30963, Start Num: 1  
Candidate Starts for RonRayGun\_37:  
(Start: 1 @30757 has 6 MA's), (13, 30952),

Gene: ThetaBob\_54 Start: 36886, Stop: 37065, Start Num: 3  
Candidate Starts for ThetaBob\_54:  
(Start: 3 @36886 has 4 MA's), (4, 36925), (5, 36931), (6, 36961), (7, 36976), (8, 36979), (9, 37027),  
(10, 37039), (11, 37048), (12, 37054),

Gene: Toron\_48 Start: 36637, Stop: 36816, Start Num: 3  
Candidate Starts for Toron\_48:  
(Start: 3 @36637 has 4 MA's), (5, 36682), (6, 36712), (7, 36727), (8, 36730), (9, 36778), (10, 36790),  
(11, 36799),

Gene: Whitty\_37 Start: 30311, Stop: 30517, Start Num: 1  
Candidate Starts for Whitty\_37:  
(Start: 1 @30311 has 6 MA's), (13, 30506),

Gene: Yoshi\_61 Start: 38120, Stop: 38299, Start Num: 3  
Candidate Starts for Yoshi\_61:  
(Start: 3 @38120 has 4 MA's), (4, 38159), (5, 38165), (6, 38195), (7, 38210), (8, 38213), (9, 38261),  
(11, 38282), (12, 38288),

Gene: ZenTime222\_36 Start: 30311, Stop: 30517, Start Num: 1  
Candidate Starts for ZenTime222\_36:  
(Start: 1 @30311 has 6 MA's), (13, 30506),