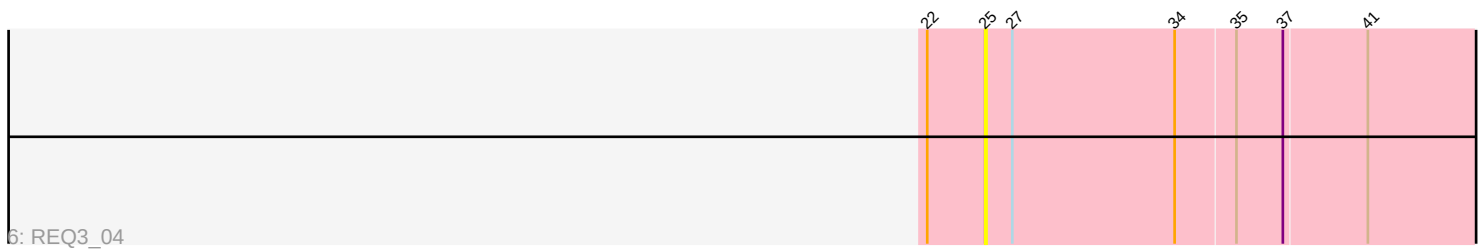
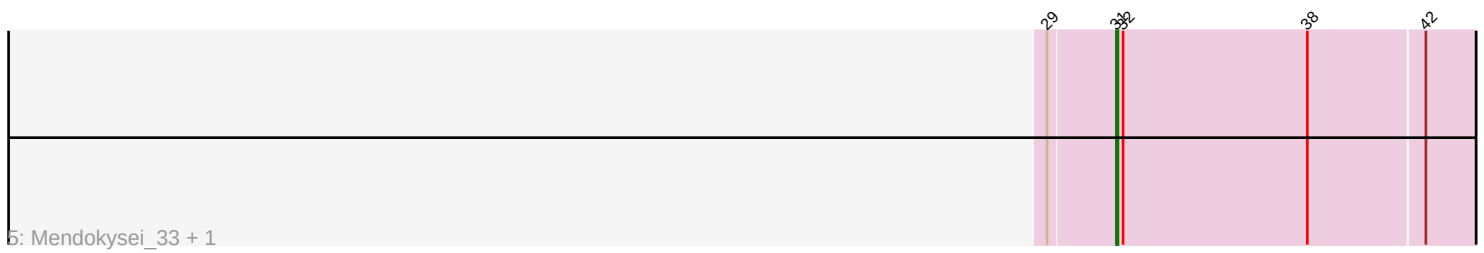
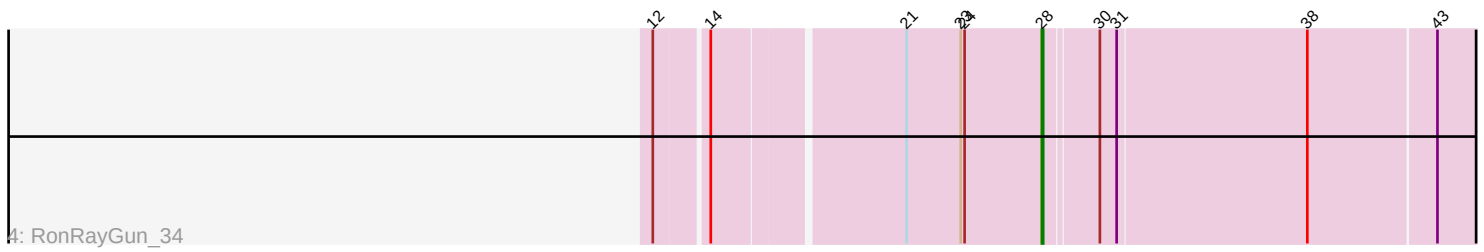
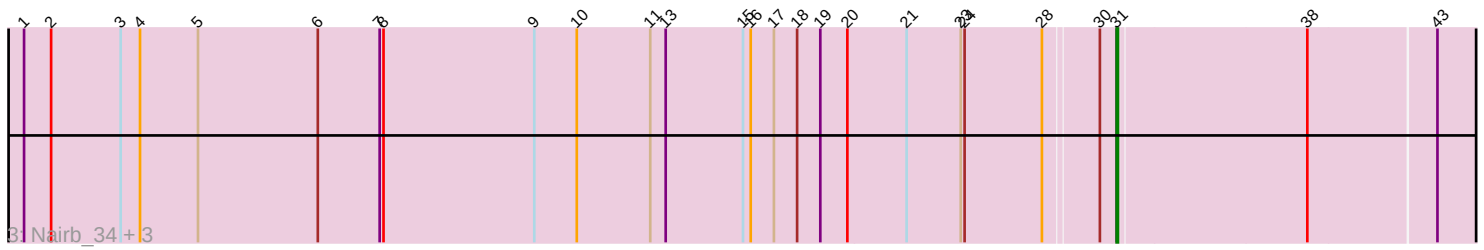
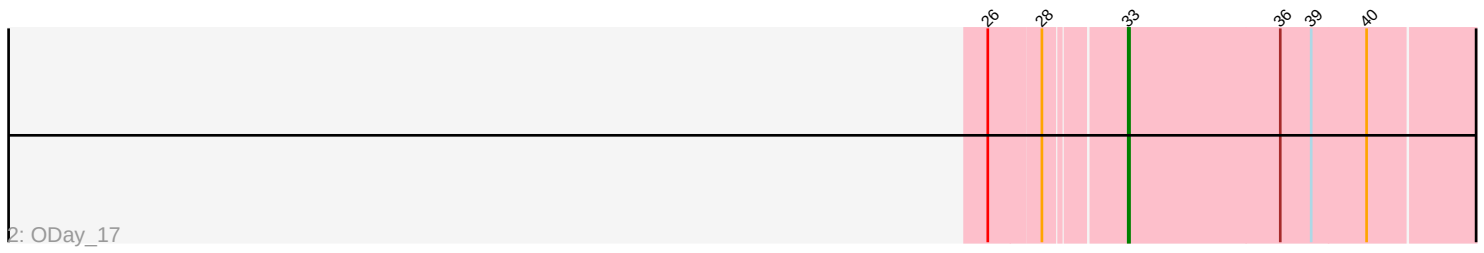
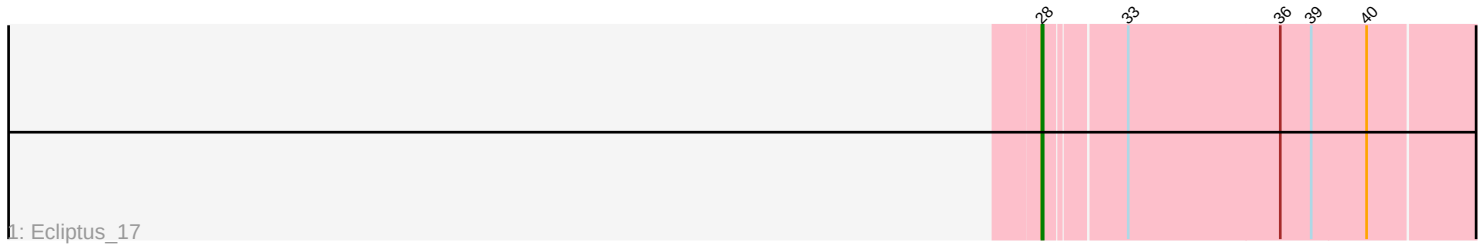


## Pham 309800



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 309800 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309800 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ecliptus\_17
- Track 2 : ODay\_17
- Track 3 : Nairb\_34, ZenTime222\_34, Bernal13\_35, Whitty\_35
- Track 4 : RonRayGun\_34
- Track 5 : Mendokysei\_33, Nette\_36
- Track 6 : REQ3\_04

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

The start number called the most often in the published annotations is 31, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bernal13\_35, Mendokysei\_33, Nairb\_34, Nette\_36, Whitty\_35, ZenTime222\_34,

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

- RonRayGun\_34,

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

- Ecliptus\_17, ODay\_17, REQ3\_04,

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

Start 25:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ3\_04 (singleton),

Start 28:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Ecliptus\_17 (DN), RonRayGun\_34 (T),

#### Start 31:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bernal13\_35 (T), Mendokysei\_33 (T), Nairb\_34 (T), Nette\_36 (T), Whitty\_35 (T), ZenTime222\_34 (T),

#### Start 33:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 50.0% of time when present
- Phage (with cluster) where this start called: ODay\_17 (DN),

### Summary by clusters:

There are 3 clusters represented in this pham: DN, singleton, T,

Info for manual annotations of cluster DN:

- Start number 28 was manually annotated 1 time for cluster DN.
- Start number 33 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster T:

- Start number 28 was manually annotated 1 time for cluster T.
- Start number 31 was manually annotated 5 times for cluster T.

### Gene Information:

Gene: Bernal13\_35 Start: 29765, Stop: 29442, Start Num: 31

Candidate Starts for Bernal13\_35:

(1, 30605), (2, 30584), (3, 30530), (4, 30515), (5, 30470), (6, 30377), (7, 30329), (8, 30326), (9, 30209), (10, 30176), (11, 30119), (13, 30107), (15, 30047), (16, 30041), (17, 30023), (18, 30005), (19, 29987), (20, 29966), (21, 29921), (23, 29879), (24, 29876), (Start: 28 @29816 has 2 MA's), (30, 29777), (Start: 31 @29765 has 5 MA's), (38, 29624), (43, 29528),

Gene: Ecliptus\_17 Start: 9896, Stop: 9513, Start Num: 28

Candidate Starts for Ecliptus\_17:

(Start: 28 @9896 has 2 MA's), (Start: 33 @9839 has 1 MA's), (36, 9722), (39, 9698), (40, 9656),

Gene: Mendokysei\_33 Start: 29309, Stop: 28983, Start Num: 31

Candidate Starts for Mendokysei\_33:

(29, 29357), (Start: 31 @29309 has 5 MA's), (32, 29306), (38, 29165), (42, 29078),

Gene: Nairb\_34 Start: 29765, Stop: 29442, Start Num: 31

Candidate Starts for Nairb\_34:

(1, 30605), (2, 30584), (3, 30530), (4, 30515), (5, 30470), (6, 30377), (7, 30329), (8, 30326), (9, 30209), (10, 30176), (11, 30119), (13, 30107), (15, 30047), (16, 30041), (17, 30023), (18, 30005), (19, 29987), (20, 29966), (21, 29921), (23, 29879), (24, 29876), (Start: 28 @29816 has 2 MA's), (30, 29777), (Start: 31 @29765 has 5 MA's), (38, 29624), (43, 29528),

Gene: Nette\_36 Start: 29318, Stop: 28992, Start Num: 31

Candidate Starts for Nette\_36:

(29, 29366), (Start: 31 @29318 has 5 MA's), (32, 29315), (38, 29174), (42, 29087),

Gene: ODay\_17 Start: 9845, Stop: 9519, Start Num: 33

Candidate Starts for ODay\_17:

(26, 9941), (Start: 28 @9902 has 2 MA's), (Start: 33 @9845 has 1 MA's), (36, 9728), (39, 9704), (40, 9662),

Gene: REQ3\_04 Start: 2725, Stop: 2294, Start Num: 25

Candidate Starts for REQ3\_04:

(22, 2770), (25, 2725), (27, 2704), (34, 2578), (35, 2533), (37, 2497), (41, 2434),

Gene: RonRayGun\_34 Start: 29816, Stop: 29442, Start Num: 28

Candidate Starts for RonRayGun\_34:

(12, 30095), (14, 30059), (21, 29921), (23, 29879), (24, 29876), (Start: 28 @29816 has 2 MA's), (30, 29777), (Start: 31 @29765 has 5 MA's), (38, 29624), (43, 29528),

Gene: Whitty\_35 Start: 29765, Stop: 29442, Start Num: 31

Candidate Starts for Whitty\_35:

(1, 30605), (2, 30584), (3, 30530), (4, 30515), (5, 30470), (6, 30377), (7, 30329), (8, 30326), (9, 30209), (10, 30176), (11, 30119), (13, 30107), (15, 30047), (16, 30041), (17, 30023), (18, 30005), (19, 29987), (20, 29966), (21, 29921), (23, 29879), (24, 29876), (Start: 28 @29816 has 2 MA's), (30, 29777), (Start: 31 @29765 has 5 MA's), (38, 29624), (43, 29528),

Gene: ZenTime222\_34 Start: 29765, Stop: 29442, Start Num: 31

Candidate Starts for ZenTime222\_34:

(1, 30605), (2, 30584), (3, 30530), (4, 30515), (5, 30470), (6, 30377), (7, 30329), (8, 30326), (9, 30209), (10, 30176), (11, 30119), (13, 30107), (15, 30047), (16, 30041), (17, 30023), (18, 30005), (19, 29987), (20, 29966), (21, 29921), (23, 29879), (24, 29876), (Start: 28 @29816 has 2 MA's), (30, 29777), (Start: 31 @29765 has 5 MA's), (38, 29624), (43, 29528),