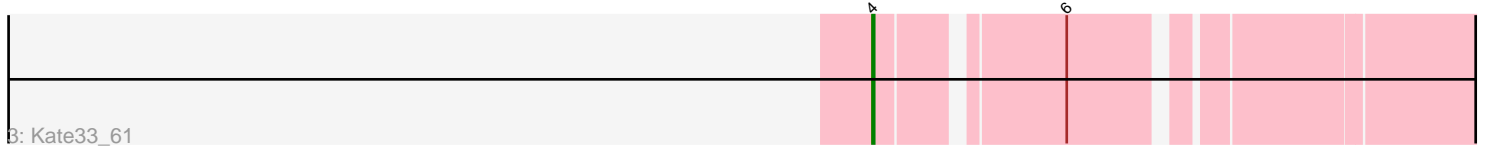
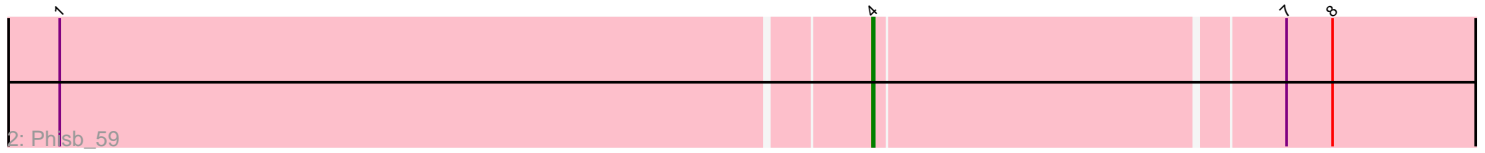
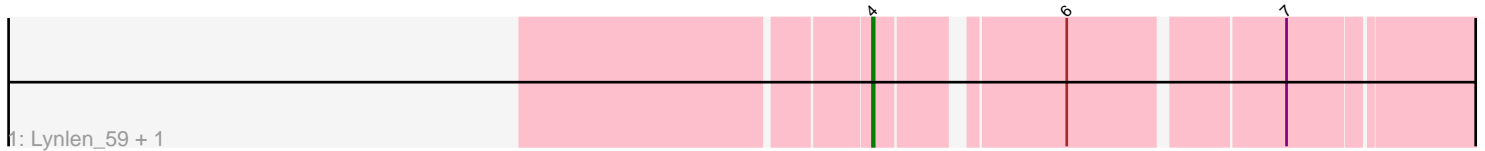


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295216 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295216 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Lynlen\_59, DickRichards\_56
- Track 2 : Phisb\_59
- Track 3 : Kate33\_61
- Track 4 : BAjuniper\_57
- Track 5 : Kenzers\_58
- Track 6 : Avocadoman\_56, IndyLu\_59, PastaFagioli\_58
- Track 7 : Albright\_55
- Track 8 : CroZenni\_58, Burritobowl\_59
- Track 9 : CanFranMach\_59
- Track 10 : Abigail\_57

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

The start number called the most often in the published annotations is 4, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail\_57, Albright\_55, Avocadoman\_56, Burritobowl\_59, CanFranMach\_59, CroZenni\_58, DickRichards\_56, IndyLu\_59, Kate33\_61, Kenzers\_58, Lynlen\_59, PastaFagioli\_58, Phisb\_59,

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

- 

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

- BAjuniper\_57,

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

Start 3:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAjuniper\_57 (EB),

Start 4:

- Found in 13 of 14 ( 92.9% ) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail\_57 (EB), Albright\_55 (EB), Avocadoman\_56 (EB), Burritobowl\_59 (EB), CanFranMach\_59 (EB), CroZenni\_58 (EB), DickRichards\_56 (EB), IndyLu\_59 (EB), Kate33\_61 (EB), Kenzers\_58 (EB), Lynlen\_59 (EB), PastaFagioli\_58 (EB), Phisb\_59 (EB),

**Summary by clusters:**

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 3 was manually annotated 1 time for cluster EB.
- Start number 4 was manually annotated 12 times for cluster EB.

**Gene Information:**

Gene: Abigail\_57 Start: 36773, Stop: 37117, Start Num: 4

Candidate Starts for Abigail\_57:

(Start: 4 @36773 has 12 MA's), (7, 37007),

Gene: Albright\_55 Start: 36204, Stop: 36518, Start Num: 4

Candidate Starts for Albright\_55:

(Start: 4 @36204 has 12 MA's), (6, 36300), (7, 36408),

Gene: Avocadoman\_56 Start: 36405, Stop: 36719, Start Num: 4

Candidate Starts for Avocadoman\_56:

(Start: 4 @36405 has 12 MA's), (6, 36501), (7, 36609),

Gene: BAjuniper\_57 Start: 38107, Stop: 38412, Start Num: 3

Candidate Starts for BAjuniper\_57:

(Start: 3 @38107 has 1 MA's), (5, 38212), (10, 38392),

Gene: Burritobowl\_59 Start: 37274, Stop: 37696, Start Num: 4

Candidate Starts for Burritobowl\_59:

(Start: 4 @37274 has 12 MA's), (7, 37487),

Gene: CanFranMach\_59 Start: 37364, Stop: 37687, Start Num: 4

Candidate Starts for CanFranMach\_59:

(2, 37295), (Start: 4 @37364 has 12 MA's), (7, 37577),

Gene: CroZenni\_58 Start: 37046, Stop: 37381, Start Num: 4

Candidate Starts for CroZenni\_58:

(Start: 4 @37046 has 12 MA's), (7, 37271),

Gene: DickRichards\_56 Start: 37221, Stop: 37535, Start Num: 4

Candidate Starts for DickRichards\_56:

(Start: 4 @37221 has 12 MA's), (6, 37317), (7, 37425),

Gene: IndyLu\_59 Start: 37637, Stop: 37960, Start Num: 4  
Candidate Starts for IndyLu\_59:  
(Start: 4 @37637 has 12 MA's), (6, 37733), (7, 37844),

Gene: Kate33\_61 Start: 37382, Stop: 37696, Start Num: 4  
Candidate Starts for Kate33\_61:  
(Start: 4 @37382 has 12 MA's), (6, 37478),

Gene: Kenzers\_58 Start: 37027, Stop: 37344, Start Num: 4  
Candidate Starts for Kenzers\_58:  
(Start: 4 @37027 has 12 MA's), (6, 37123), (7, 37234), (9, 37273),

Gene: Lynlen\_59 Start: 37207, Stop: 37527, Start Num: 4  
Candidate Starts for Lynlen\_59:  
(Start: 4 @37207 has 12 MA's), (6, 37303), (7, 37420),

Gene: PastaFagioli\_58 Start: 37606, Stop: 37929, Start Num: 4  
Candidate Starts for PastaFagioli\_58:  
(Start: 4 @37606 has 12 MA's), (6, 37702), (7, 37813),

Gene: Phisb\_59 Start: 37319, Stop: 37666, Start Num: 4  
Candidate Starts for Phisb\_59:  
(1, 36851), (Start: 4 @37319 has 12 MA's), (7, 37550), (8, 37577),