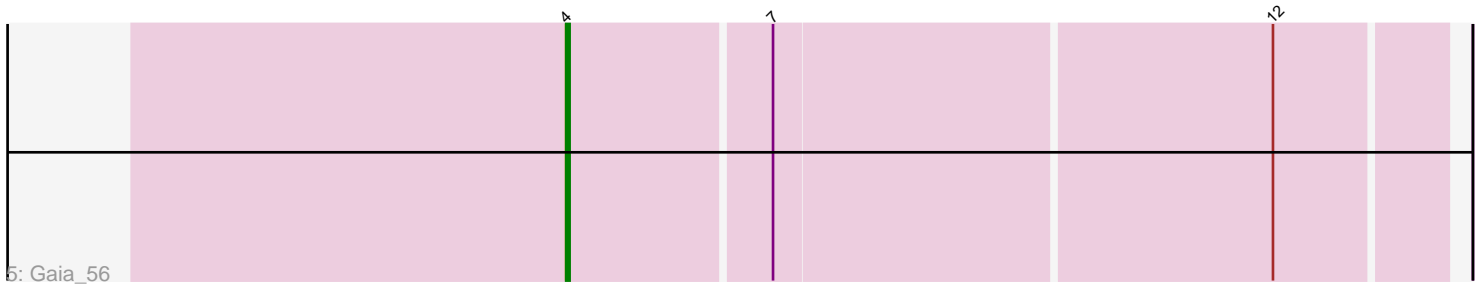
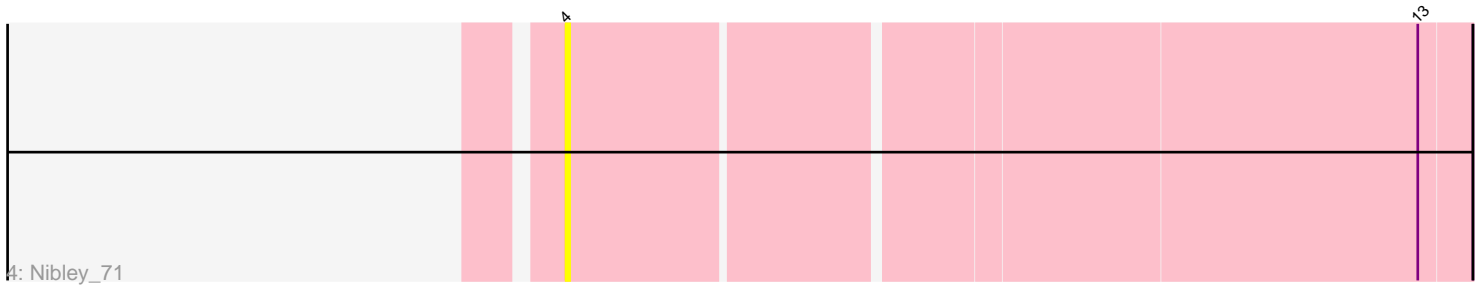
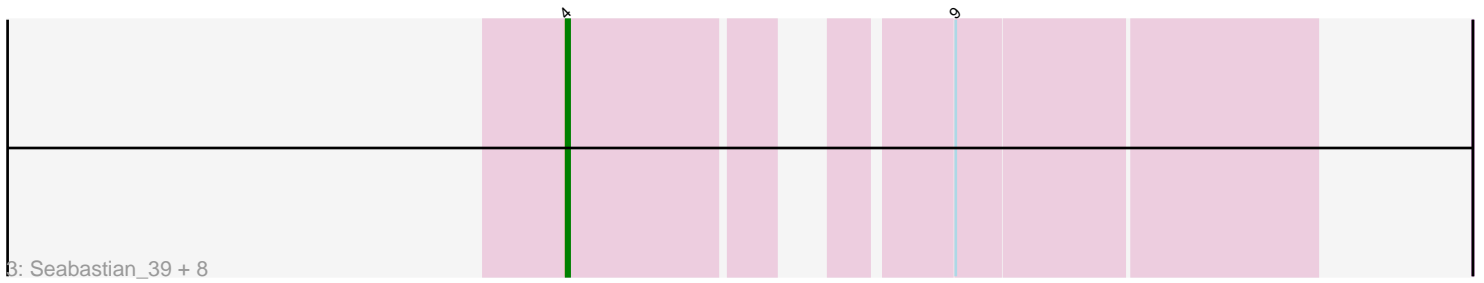
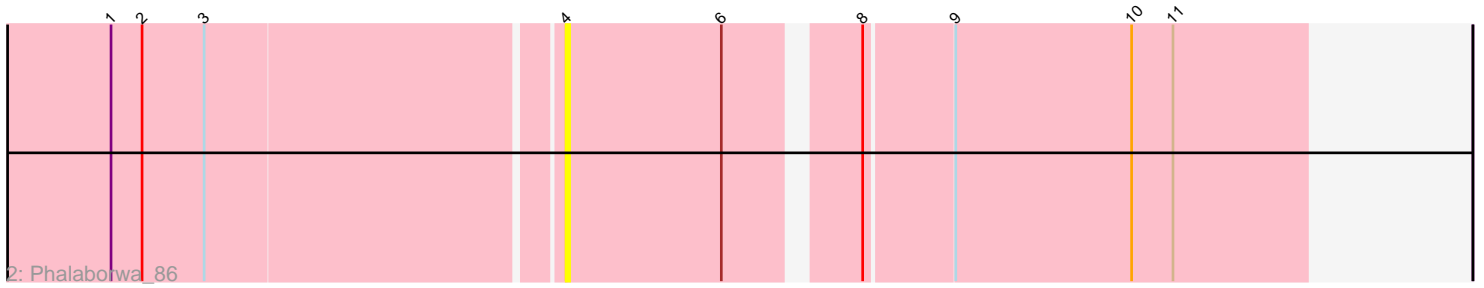
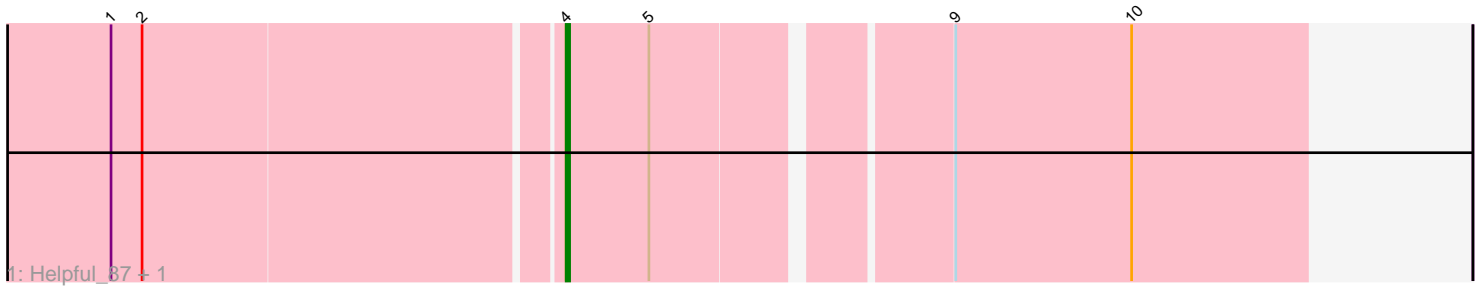


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 305411 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305411 has 14 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Helpful\_87, KandZ\_82
- Track 2 : Phalaborwa\_86
- Track 3 : Seabastian\_39, Ochi17\_37, AlpineSix\_39, Jinglebell\_38, Modragons\_38, Llama\_39, Oksu\_39, OfUltron\_39, Nichirin\_39
- Track 4 : Nibley\_71
- Track 5 : Gaia\_56

### ***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 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlpineSix\_39, Gaia\_56, Helpful\_87, Jinglebell\_38, KandZ\_82, Llama\_39, Modragons\_38, Nibley\_71, Nichirin\_39, Ochi17\_37, OfUltron\_39, Oksu\_39, Phalaborwa\_86, Seabastian\_39,

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

- 

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

- 

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

Start 4:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlpineSix\_39 (F1), Gaia\_56 (X), Helpful\_87 (D1), Jinglebell\_38 (F1), KandZ\_82 (D1), Llama\_39 (F1), Modragons\_38 (F1), Nibley\_71 (J), Nichirin\_39 (F1), Ochi17\_37 (F1), OfUltron\_39 (F1), Oksu\_39 (F1), Phalaborwa\_86 (D1), Seabastian\_39 (F1),

## Summary by clusters:

There are 4 clusters represented in this pham: F1, J, X, D1,

Info for manual annotations of cluster D1:

- Start number 4 was manually annotated 2 times for cluster D1.

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster X:

- Start number 4 was manually annotated 1 time for cluster X.

## Gene Information:

Gene: AlpineSix\_39 Start: 31200, Stop: 31009, Start Num: 4

Candidate Starts for AlpineSix\_39:

(Start: 4 @31200 has 10 MA's), (9, 31110),

Gene: Gaia\_56 Start: 40287, Stop: 40042, Start Num: 4

Candidate Starts for Gaia\_56:

(Start: 4 @40287 has 10 MA's), (7, 40230), (12, 40089),

Gene: Helpful\_87 Start: 60143, Stop: 60346, Start Num: 4

Candidate Starts for Helpful\_87:

(1, 60017), (2, 60026), (Start: 4 @60143 has 10 MA's), (5, 60167), (9, 60245), (10, 60296),

Gene: Jinglebell\_38 Start: 31199, Stop: 31008, Start Num: 4

Candidate Starts for Jinglebell\_38:

(Start: 4 @31199 has 10 MA's), (9, 31109),

Gene: KandZ\_82 Start: 59971, Stop: 60174, Start Num: 4

Candidate Starts for KandZ\_82:

(1, 59845), (2, 59854), (Start: 4 @59971 has 10 MA's), (5, 59995), (9, 60073), (10, 60124),

Gene: Llama\_39 Start: 31198, Stop: 31007, Start Num: 4

Candidate Starts for Llama\_39:

(Start: 4 @31198 has 10 MA's), (9, 31108),

Gene: Modragons\_38 Start: 31043, Stop: 30852, Start Num: 4

Candidate Starts for Modragons\_38:

(Start: 4 @31043 has 10 MA's), (9, 30953),

Gene: Nibley\_71 Start: 47231, Stop: 46980, Start Num: 4

Candidate Starts for Nibley\_71:

(Start: 4 @47231 has 10 MA's), (13, 46994),

Gene: Nichirin\_39 Start: 31227, Stop: 31036, Start Num: 4

Candidate Starts for Nichirin\_39:

(Start: 4 @31227 has 10 MA's), (9, 31137),

Gene: Ochi17\_37 Start: 30650, Stop: 30459, Start Num: 4  
Candidate Starts for Ochi17\_37:  
(Start: 4 @30650 has 10 MA's), (9, 30560),

Gene: OfUltron\_39 Start: 31199, Stop: 31008, Start Num: 4  
Candidate Starts for OfUltron\_39:  
(Start: 4 @31199 has 10 MA's), (9, 31109),

Gene: Oksu\_39 Start: 31043, Stop: 30852, Start Num: 4  
Candidate Starts for Oksu\_39:  
(Start: 4 @31043 has 10 MA's), (9, 30953),

Gene: Phalaborwa\_86 Start: 60456, Stop: 60659, Start Num: 4  
Candidate Starts for Phalaborwa\_86:  
(1, 60330), (2, 60339), (3, 60357), (Start: 4 @60456 has 10 MA's), (6, 60501), (8, 60534), (9, 60558),  
(10, 60609), (11, 60621),

Gene: Seabastian\_39 Start: 31199, Stop: 31008, Start Num: 4  
Candidate Starts for Seabastian\_39:  
(Start: 4 @31199 has 10 MA's), (9, 31109),