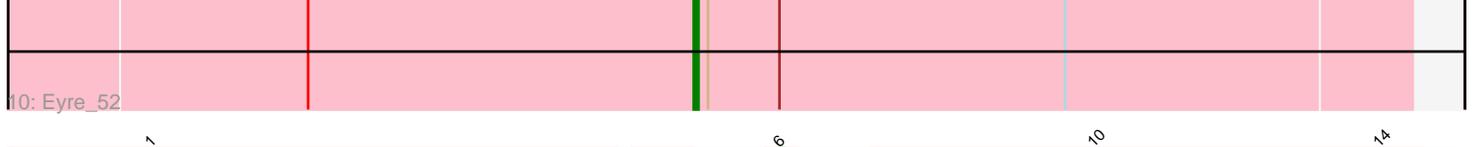
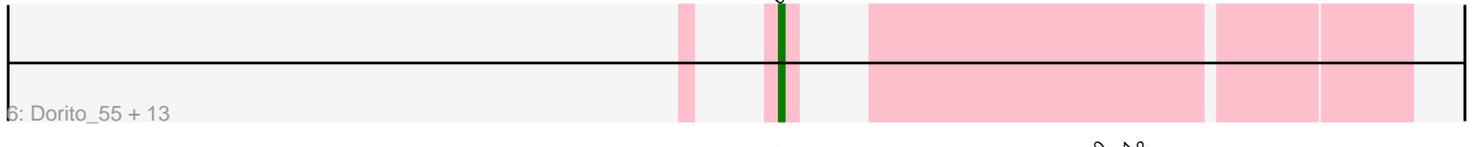
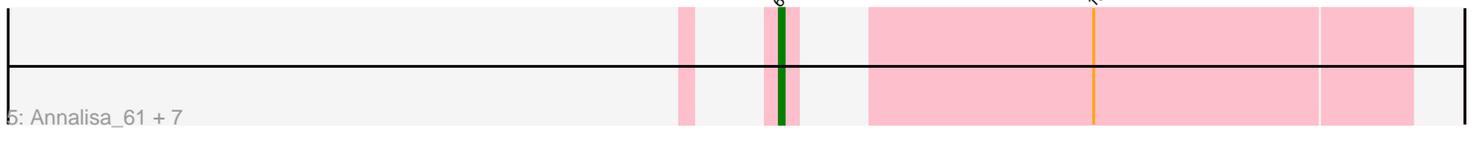
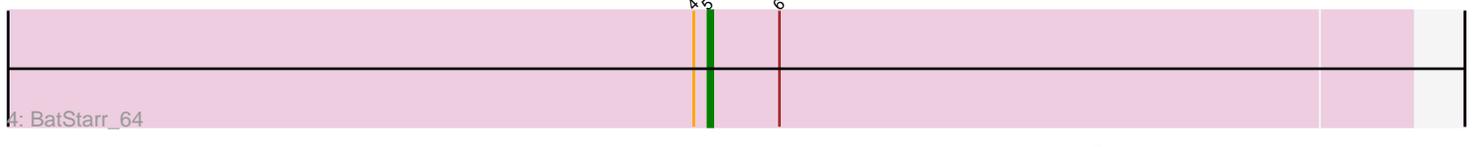
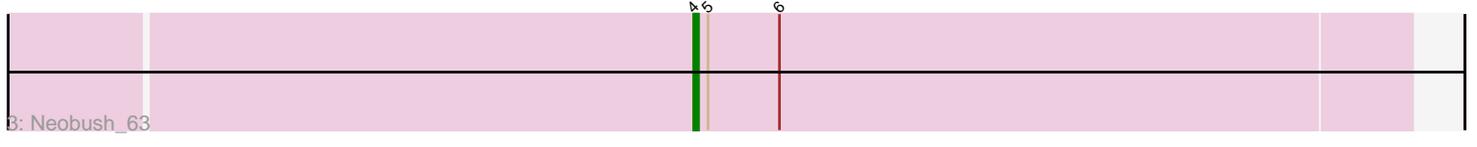
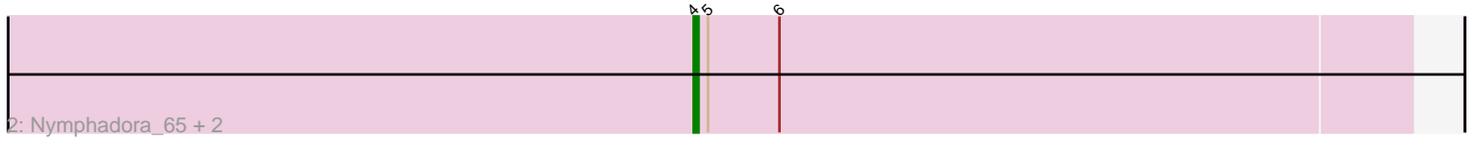
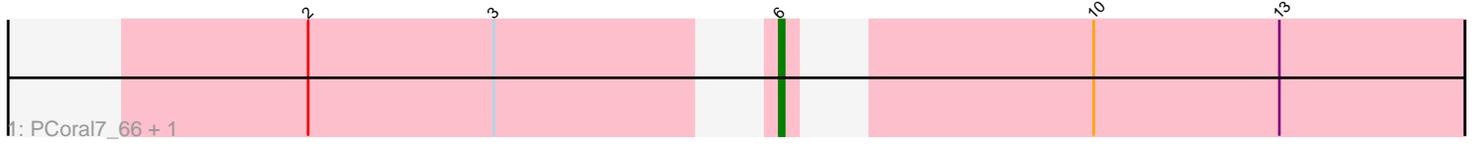


Pham 291369



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 291369 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291369 has 34 members, 3 are drafts.

Phages represented in each track:

- Track 1 : PCoral7\_66, Toast\_66
- Track 2 : Nymphadora\_65, TimTam\_65, Eviarto\_65
- Track 3 : Neobush\_63
- Track 4 : BatStarr\_64
- Track 5 : Annalisa\_61, DobbysSock\_58, Beenie\_58, Suerte\_57, Tuti\_64, Samman98\_64, Invecetra\_66, Clark\_63
- Track 6 : Dorito\_55, Twinkle\_63, Howe\_64, Dolores\_62, Sekhmet\_61, Thimann\_64, Easley\_59, PhriskyACE\_61, Adora\_61, MichaelScott\_65, Hortense\_64, WinkNick\_62, Oregano\_64, Shlim410\_62
- Track 7 : Powerball\_62
- Track 8 : Mcklovin\_62
- Track 9 : MakCheese\_69
- Track 10 : Eyre\_52
- Track 11 : Gudmit\_56

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

The start number called the most often in the published annotations is 6, it was called in 25 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora\_61, Annalisa\_61, Beenie\_58, Clark\_63, DobbysSock\_58, Dolores\_62, Dorito\_55, Easley\_59, Gudmit\_56, Hortense\_64, Howe\_64, Invecetra\_66, MakCheese\_69, Mcklovin\_62, MichaelScott\_65, Oregano\_64, PCoral7\_66, PhriskyACE\_61, Powerball\_62, Samman98\_64, Sekhmet\_61, Shlim410\_62, Suerte\_57, Thimann\_64, Toast\_66, Tuti\_64, Twinkle\_63, WinkNick\_62,

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

- BatStarr\_64, Eviarto\_65, Eyre\_52, Neobush\_63, Nymphadora\_65, TimTam\_65,

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

- 

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

Start 4:

- Found in 6 of 34 ( 17.6% ) of genes in pham
- Manual Annotations of this start: 5 of 31
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Eviarto\_65 (CZ1), Eyre\_52 (singleton), Neobush\_63 (CZ1), Nymphadora\_65 (CZ1), TimTam\_65 (CZ1),

Start 5:

- Found in 6 of 34 ( 17.6% ) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 16.7% of time when present
- Phage (with cluster) where this start called: BatStarr\_64 (CZ1),

Start 6:

- Found in 34 of 34 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 31
- Called 82.4% of time when present
- Phage (with cluster) where this start called: Adora\_61 (CZ4), Annalisa\_61 (CZ4), Beenie\_58 (CZ4), Clark\_63 (CZ4), DobbysSock\_58 (CZ4), Dolores\_62 (CZ4), Dorito\_55 (CZ4), Easley\_59 (CZ4), Gudmit\_56 (singleton), Hortense\_64 (CZ4), Howe\_64 (CZ4), Invectra\_66 (CZ4), MakCheese\_69 (DW), Mcklovin\_62 (CZ4), MichaelScott\_65 (CZ4), Oregano\_64 (CZ4), PCoral7\_66 (CV), PhriskyACE\_61 (CZ4), Powerball\_62 (CZ4), Samman98\_64 (CZ4), Sekhmet\_61 (CZ4), Shlim410\_62 (CZ4), Suerte\_57 (CZ4), Thimann\_64 (CZ4), Toast\_66 (CV), Tuti\_64 (CZ4), Twinkle\_63 (CZ4), WinkNick\_62 (CZ4),

**Summary by clusters:**

There are 5 clusters represented in this pham: DW, singleton, CZ1, CV, CZ4,

Info for manual annotations of cluster CV:

- Start number 6 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CZ1:

- Start number 4 was manually annotated 4 times for cluster CZ1.
- Start number 5 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ4:

- Start number 6 was manually annotated 22 times for cluster CZ4.

**Gene Information:**

Gene: Adora\_61 Start: 43146, Stop: 43259, Start Num: 6

Candidate Starts for Adora\_61:

(Start: 6 @43146 has 25 MA's),

Gene: Annalisa\_61 Start: 40463, Stop: 40579, Start Num: 6

Candidate Starts for Annalisa\_61:

(Start: 6 @40463 has 25 MA's), (10, 40514),

Gene: BatStarr\_64 Start: 44581, Stop: 44727, Start Num: 5  
Candidate Starts for BatStarr\_64:  
(Start: 4 @44578 has 5 MA's), (Start: 5 @44581 has 1 MA's), (Start: 6 @44596 has 25 MA's),

Gene: Beenie\_58 Start: 41191, Stop: 41307, Start Num: 6  
Candidate Starts for Beenie\_58:  
(Start: 6 @41191 has 25 MA's), (10, 41242),

Gene: Clark\_63 Start: 40954, Stop: 41070, Start Num: 6  
Candidate Starts for Clark\_63:  
(Start: 6 @40954 has 25 MA's), (10, 41005),

Gene: DobbysSock\_58 Start: 40602, Stop: 40718, Start Num: 6  
Candidate Starts for DobbysSock\_58:  
(Start: 6 @40602 has 25 MA's), (10, 40653),

Gene: Dolores\_62 Start: 40290, Stop: 40403, Start Num: 6  
Candidate Starts for Dolores\_62:  
(Start: 6 @40290 has 25 MA's),

Gene: Dorito\_55 Start: 38107, Stop: 38220, Start Num: 6  
Candidate Starts for Dorito\_55:  
(Start: 6 @38107 has 25 MA's),

Gene: Easley\_59 Start: 39801, Stop: 39899, Start Num: 6  
Candidate Starts for Easley\_59:  
(Start: 6 @39801 has 25 MA's),

Gene: Eviarto\_65 Start: 44553, Stop: 44702, Start Num: 4  
Candidate Starts for Eviarto\_65:  
(Start: 4 @44553 has 5 MA's), (Start: 5 @44556 has 1 MA's), (Start: 6 @44571 has 25 MA's),

Gene: Eyre\_52 Start: 35630, Stop: 35779, Start Num: 4  
Candidate Starts for Eyre\_52:  
(2, 35549), (Start: 4 @35630 has 5 MA's), (Start: 5 @35633 has 1 MA's), (Start: 6 @35648 has 25 MA's), (9, 35708),

Gene: Gudmit\_56 Start: 33859, Stop: 33978, Start Num: 6  
Candidate Starts for Gudmit\_56:  
(1, 33745), (Start: 6 @33859 has 25 MA's), (10, 33910), (14, 33970),

Gene: Hortense\_64 Start: 44501, Stop: 44614, Start Num: 6  
Candidate Starts for Hortense\_64:  
(Start: 6 @44501 has 25 MA's),

Gene: Howe\_64 Start: 44501, Stop: 44614, Start Num: 6  
Candidate Starts for Howe\_64:  
(Start: 6 @44501 has 25 MA's),

Gene: Invectra\_66 Start: 42527, Stop: 42643, Start Num: 6  
Candidate Starts for Invectra\_66:  
(Start: 6 @42527 has 25 MA's), (10, 42578),

Gene: MakCheese\_69 Start: 44932, Stop: 45048, Start Num: 6

Candidate Starts for MakCheese\_69:

(Start: 6 @44932 has 25 MA's), (7, 44956), (10, 44983),

Gene: Mcklovin\_62 Start: 46828, Stop: 46944, Start Num: 6

Candidate Starts for Mcklovin\_62:

(Start: 6 @46828 has 25 MA's), (8, 46864), (10, 46879),

Gene: MichaelScott\_65 Start: 42221, Stop: 42334, Start Num: 6

Candidate Starts for MichaelScott\_65:

(Start: 6 @42221 has 25 MA's),

Gene: Neobush\_63 Start: 42127, Stop: 42276, Start Num: 4

Candidate Starts for Neobush\_63:

(Start: 4 @42127 has 5 MA's), (Start: 5 @42130 has 1 MA's), (Start: 6 @42145 has 25 MA's),

Gene: Nymphadora\_65 Start: 44577, Stop: 44726, Start Num: 4

Candidate Starts for Nymphadora\_65:

(Start: 4 @44577 has 5 MA's), (Start: 5 @44580 has 1 MA's), (Start: 6 @44595 has 25 MA's),

Gene: Oregano\_64 Start: 41095, Stop: 41208, Start Num: 6

Candidate Starts for Oregano\_64:

(Start: 6 @41095 has 25 MA's),

Gene: PCoral7\_66 Start: 42700, Stop: 42828, Start Num: 6

Candidate Starts for PCoral7\_66:

(2, 42616), (3, 42655), (Start: 6 @42700 has 25 MA's), (10, 42751), (13, 42790),

Gene: PhriskyACE\_61 Start: 41112, Stop: 41225, Start Num: 6

Candidate Starts for PhriskyACE\_61:

(Start: 6 @41112 has 25 MA's),

Gene: Powerball\_62 Start: 41218, Stop: 41334, Start Num: 6

Candidate Starts for Powerball\_62:

(Start: 6 @41218 has 25 MA's), (10, 41269), (11, 41275), (12, 41278),

Gene: Samman98\_64 Start: 41057, Stop: 41173, Start Num: 6

Candidate Starts for Samman98\_64:

(Start: 6 @41057 has 25 MA's), (10, 41108),

Gene: Sekhmet\_61 Start: 40689, Stop: 40802, Start Num: 6

Candidate Starts for Sekhmet\_61:

(Start: 6 @40689 has 25 MA's),

Gene: Shlim410\_62 Start: 44501, Stop: 44614, Start Num: 6

Candidate Starts for Shlim410\_62:

(Start: 6 @44501 has 25 MA's),

Gene: Suerte\_57 Start: 40021, Stop: 40137, Start Num: 6

Candidate Starts for Suerte\_57:

(Start: 6 @40021 has 25 MA's), (10, 40072),

Gene: Thimann\_64 Start: 41329, Stop: 41442, Start Num: 6  
Candidate Starts for Thimann\_64:  
(Start: 6 @41329 has 25 MA's),

Gene: TimTam\_65 Start: 44577, Stop: 44726, Start Num: 4  
Candidate Starts for TimTam\_65:  
(Start: 4 @44577 has 5 MA's), (Start: 5 @44580 has 1 MA's), (Start: 6 @44595 has 25 MA's),

Gene: Toast\_66 Start: 42700, Stop: 42828, Start Num: 6  
Candidate Starts for Toast\_66:  
(2, 42616), (3, 42655), (Start: 6 @42700 has 25 MA's), (10, 42751), (13, 42790),

Gene: Tuti\_64 Start: 42073, Stop: 42189, Start Num: 6  
Candidate Starts for Tuti\_64:  
(Start: 6 @42073 has 25 MA's), (10, 42124),

Gene: Twinkle\_63 Start: 45560, Stop: 45673, Start Num: 6  
Candidate Starts for Twinkle\_63:  
(Start: 6 @45560 has 25 MA's),

Gene: WinkNick\_62 Start: 40213, Stop: 40326, Start Num: 6  
Candidate Starts for WinkNick\_62:  
(Start: 6 @40213 has 25 MA's),