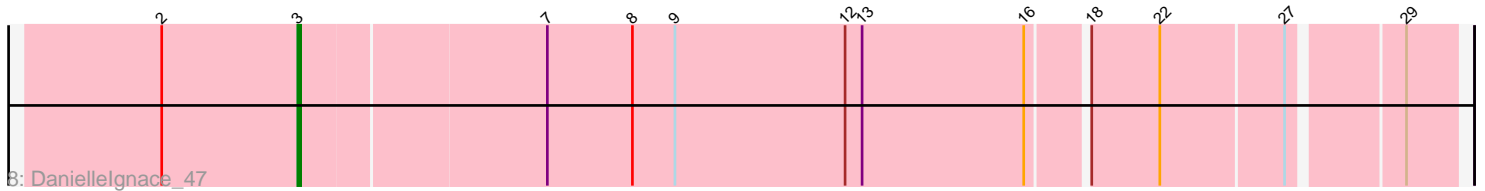
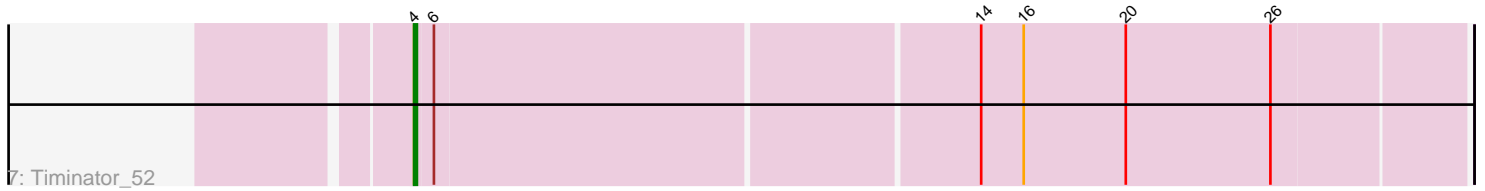
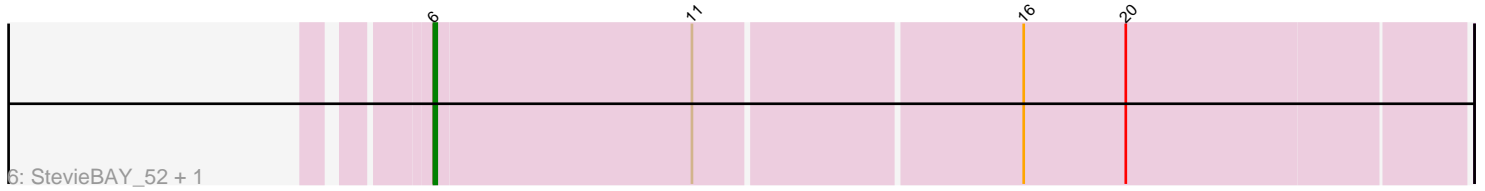
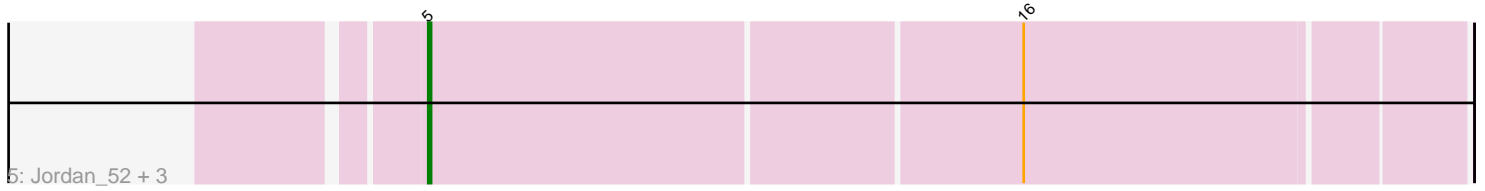
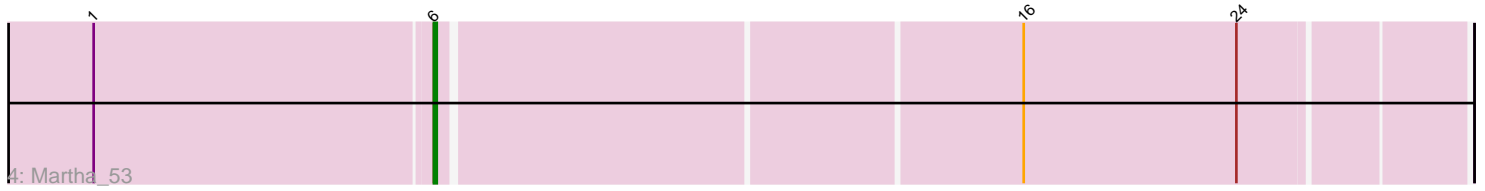
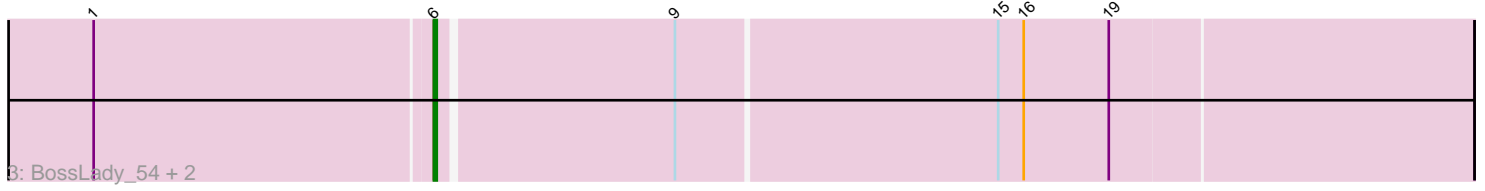
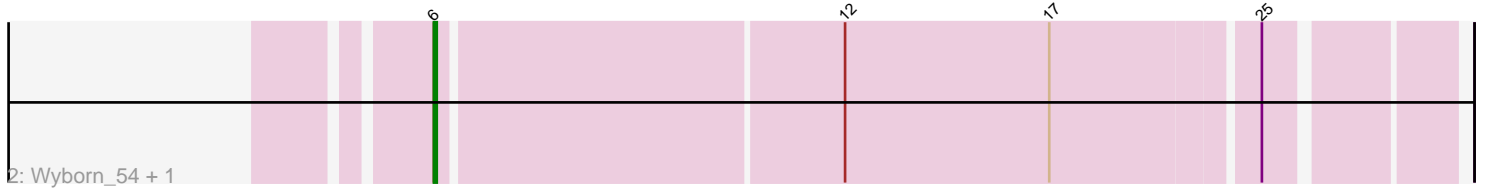
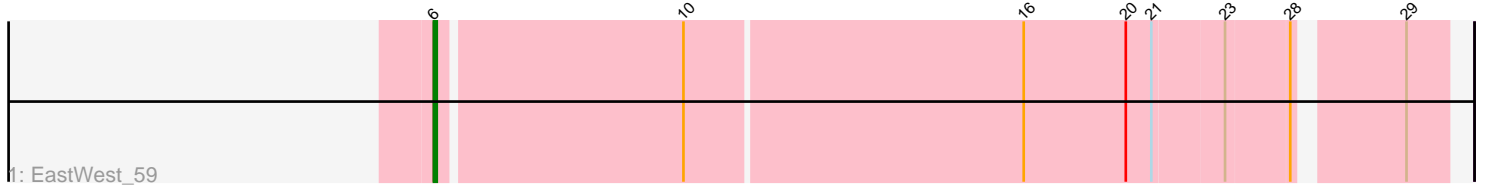


# Pham 170410



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 170410 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170410 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EastWest\_59
- Track 2 : Wyborn\_54, Sicarius2\_54
- Track 3 : BossLady\_54, TaeYoung\_54, Grekaycon\_53
- Track 4 : Martha\_53
- Track 5 : Jordan\_52, Zartrosa\_52, Shade\_52, JKerns\_52
- Track 6 : StevieBAY\_52, GravityBall\_52
- Track 7 : Timinator\_52
- Track 8 : DanielleIgnace\_47

### ***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 8 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BossLady\_54, EastWest\_59, GravityBall\_52, Grekaycon\_53, Martha\_53, Sicarius2\_54, StevieBAY\_52, TaeYoung\_54, Wyborn\_54,

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

- Timinator\_52,

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

- DanielleIgnace\_47, JKerns\_52, Jordan\_52, Shade\_52, Zartrosa\_52,

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

Start 3:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DanielleIgnace\_47 (AT),

Start 4:

- Found in 1 of 15 ( 6.7% ) of genes in pham

- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Timinator\_52 (AO2),

Start 5:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JKerns\_52 (AO2), Jordan\_52 (AO2), Shade\_52 (AO2), Zartrosa\_52 (AO2),

Start 6:

- Found in 10 of 15 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 8 of 14
- Called 90.0% of time when present
- Phage (with cluster) where this start called: BossLady\_54 (AO2), EastWest\_59 (AO), GravityBall\_52 (AO2), Grekaycon\_53 (AO2), Martha\_53 (AO2), Sicarius2\_54 (AO2), StevieBAY\_52 (AO2), TaeYoung\_54 (AO2), Wyborn\_54 (AO2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AO2, AO, AT,

Info for manual annotations of cluster AO:

- Start number 6 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO2:

- Start number 4 was manually annotated 1 time for cluster AO2.
- Start number 5 was manually annotated 4 times for cluster AO2.
- Start number 6 was manually annotated 7 times for cluster AO2.

Info for manual annotations of cluster AT:

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

### **Gene Information:**

Gene: BossLady\_54 Start: 38141, Stop: 38497, Start Num: 6

Candidate Starts for BossLady\_54:

(1, 38024), (Start: 6 @38141 has 8 MA's), (9, 38222), (15, 38333), (16, 38342), (19, 38372),

Gene: DanielleIgnace\_47 Start: 33902, Stop: 34291, Start Num: 3

Candidate Starts for DanielleIgnace\_47:

(2, 33854), (Start: 3 @33902 has 1 MA's), (7, 33986), (8, 34016), (9, 34031), (12, 34091), (13, 34097), (16, 34154), (18, 34172), (22, 34196), (27, 34238), (29, 34274),

Gene: EastWest\_59 Start: 38598, Stop: 38936, Start Num: 6

Candidate Starts for EastWest\_59:

(Start: 6 @38598 has 8 MA's), (10, 38682), (16, 38799), (20, 38835), (21, 38844), (23, 38868), (28, 38889), (29, 38922),

Gene: GravityBall\_52 Start: 37958, Stop: 38311, Start Num: 6

Candidate Starts for GravityBall\_52:

(Start: 6 @37958 has 8 MA's), (11, 38048), (16, 38159), (20, 38195),

Gene: Grekaycon\_53 Start: 38040, Stop: 38396, Start Num: 6

Candidate Starts for Grekaycon\_53:

(1, 37923), (Start: 6 @38040 has 8 MA's), (9, 38121), (15, 38232), (16, 38241), (19, 38271),

Gene: JKerns\_52 Start: 38120, Stop: 38473, Start Num: 5

Candidate Starts for JKerns\_52:

(Start: 5 @38120 has 4 MA's), (16, 38324),

Gene: Jordan\_52 Start: 37923, Stop: 38276, Start Num: 5

Candidate Starts for Jordan\_52:

(Start: 5 @37923 has 4 MA's), (16, 38127),

Gene: Martha\_53 Start: 38154, Stop: 38501, Start Num: 6

Candidate Starts for Martha\_53:

(1, 38037), (Start: 6 @38154 has 8 MA's), (16, 38352), (24, 38427),

Gene: Shade\_52 Start: 37848, Stop: 38201, Start Num: 5

Candidate Starts for Shade\_52:

(Start: 5 @37848 has 4 MA's), (16, 38052),

Gene: Sicarius2\_54 Start: 37030, Stop: 37368, Start Num: 6

Candidate Starts for Sicarius2\_54:

(Start: 6 @37030 has 8 MA's), (12, 37168), (17, 37240), (25, 37309),

Gene: StevieBAY\_52 Start: 37955, Stop: 38308, Start Num: 6

Candidate Starts for StevieBAY\_52:

(Start: 6 @37955 has 8 MA's), (11, 38045), (16, 38156), (20, 38192),

Gene: TaeYoung\_54 Start: 38109, Stop: 38465, Start Num: 6

Candidate Starts for TaeYoung\_54:

(1, 37992), (Start: 6 @38109 has 8 MA's), (9, 38190), (15, 38301), (16, 38310), (19, 38340),

Gene: Timinator\_52 Start: 37818, Stop: 38177, Start Num: 4

Candidate Starts for Timinator\_52:

(Start: 4 @37818 has 1 MA's), (Start: 6 @37824 has 8 MA's), (14, 38010), (16, 38025), (20, 38061), (26, 38112),

Gene: Wyborn\_54 Start: 38010, Stop: 38348, Start Num: 6

Candidate Starts for Wyborn\_54:

(Start: 6 @38010 has 8 MA's), (12, 38148), (17, 38220), (25, 38289),

Gene: Zartrosa\_52 Start: 37899, Stop: 38252, Start Num: 5

Candidate Starts for Zartrosa\_52:

(Start: 5 @37899 has 4 MA's), (16, 38103),