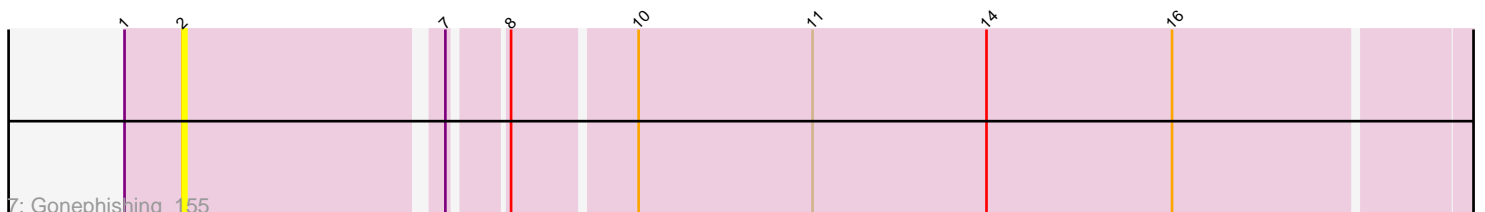
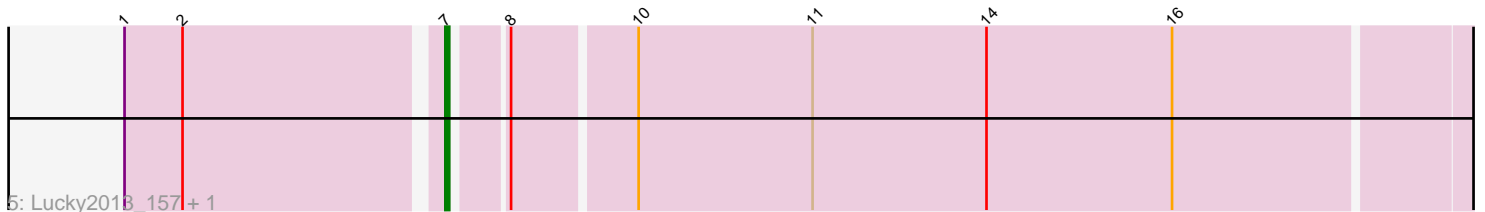
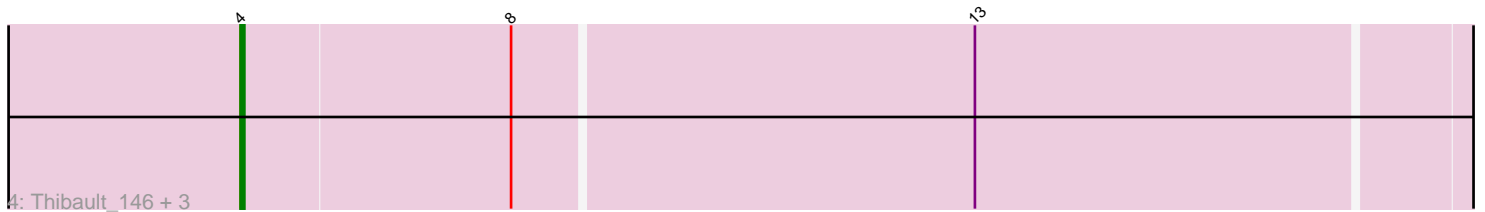
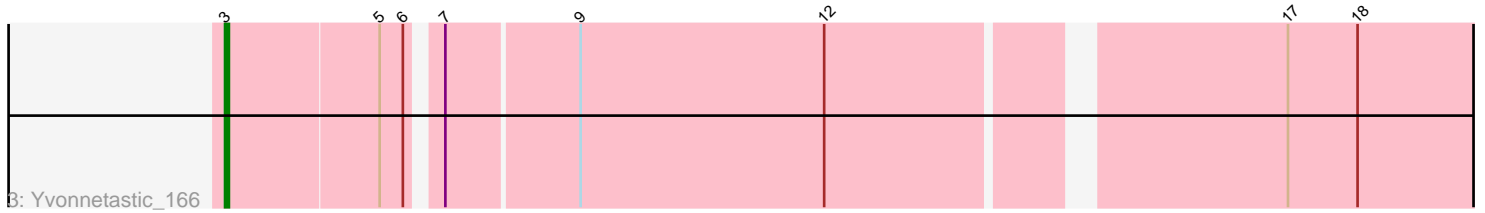
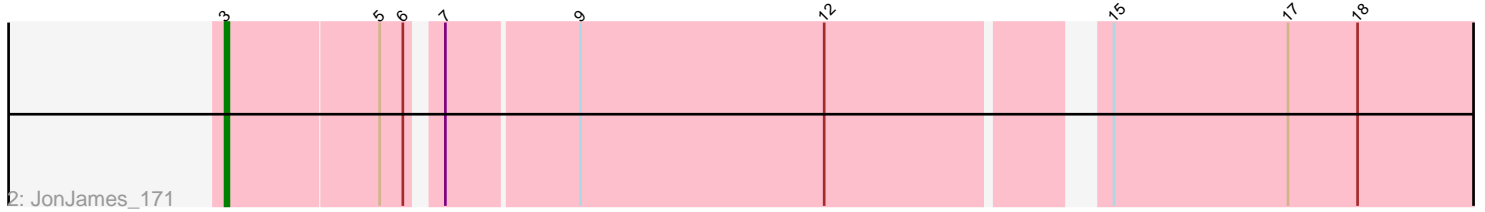
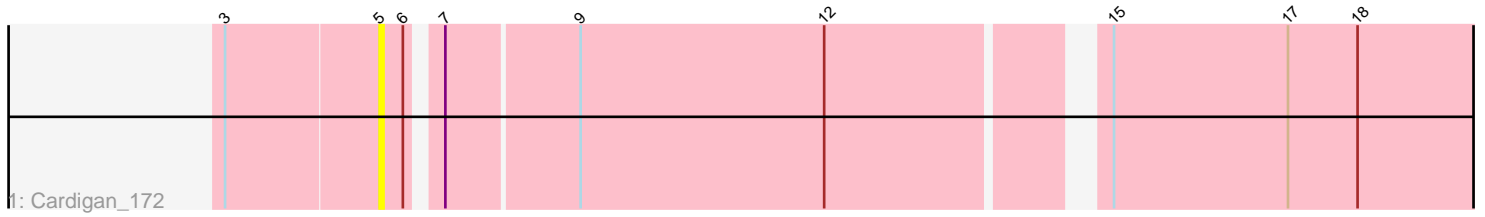


# Pham 224844



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 224844 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224844 has 25 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Cardigan\_172
- Track 2 : JonJames\_171
- Track 3 : Yvonnestic\_166
- Track 4 : Thibault\_146, Redno2\_157, Dove\_150, Phoebus\_164
- Track 5 : Lucky2013\_157, Courthouse\_158
- Track 6 : Optimus\_159, Beem\_164, Kalah2\_159, BAKA\_168, Hughesyang\_162, Omega\_172, ThreeRngTarjay\_160, Schatzie\_158, Klein\_166, Constella\_159, EricMillard\_161, Ejimix\_154, Duke13\_165, Halley\_164, Wanda\_161
- Track 7 : Gonephishing\_155

### ***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 19 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA\_168, Beem\_164, Constella\_159, Dove\_150, Duke13\_165, Ejimix\_154, EricMillard\_161, Halley\_164, Hughesyang\_162, Kalah2\_159, Klein\_166, Omega\_172, Optimus\_159, Phoebus\_164, Redno2\_157, Schatzie\_158, Thibault\_146, ThreeRngTarjay\_160, Wanda\_161,

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

- 

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

- Cardigan\_172, Courthouse\_158, Gonephishing\_155, JonJames\_171, Lucky2013\_157, Yvonnestic\_166,

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

Start 2:

- Found in 3 of 25 ( 12.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present

- Phage (with cluster) where this start called: Gonephishing\_155 (J),

#### Start 3:

- Found in 3 of 25 ( 12.0% ) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 66.7% of time when present
- Phage (with cluster) where this start called: JonJames\_171 (DD), Yvonnetastic\_166 (DD),

#### Start 4:

- Found in 19 of 25 ( 76.0% ) of genes in pham
- Manual Annotations of this start: 19 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA\_168 (J), Beem\_164 (J), Constella\_159 (J), Dove\_150 (J), Duke13\_165 (J), Ejimix\_154 (J), EricMillard\_161 (J), Halley\_164 (J), Hughesyang\_162 (J), Kalah2\_159 (J), Klein\_166 (J), Omega\_172 (J), Optimus\_159 (J), Phoebus\_164 (J), Redno2\_157 (J), Schatzie\_158 (J), Thibault\_146 (J), ThreeRngTarjay\_160 (J), Wanda\_161 (J),

#### Start 5:

- Found in 3 of 25 ( 12.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Cardigan\_172 (DD),

#### Start 7:

- Found in 6 of 25 ( 24.0% ) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Courthouse\_158 (J), Lucky2013\_157 (J),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DD, J,

Info for manual annotations of cluster DD:

- Start number 3 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 19 times for cluster J.
- Start number 7 was manually annotated 2 times for cluster J.

### **Gene Information:**

Gene: BAKA\_168 Start: 87886, Stop: 88200, Start Num: 4

Candidate Starts for BAKA\_168:

(Start: 4 @87886 has 19 MA's), (8, 87955), (13, 88072),

Gene: Beem\_164 Start: 87883, Stop: 88197, Start Num: 4

Candidate Starts for Beem\_164:

(Start: 4 @87883 has 19 MA's), (8, 87952), (13, 88069),

Gene: Cardigan\_172 Start: 88613, Stop: 88891, Start Num: 5

Candidate Starts for Cardigan\_172:

(Start: 3 @88574 has 2 MA's), (5, 88613), (6, 88619), (Start: 7 @88625 has 2 MA's), (9, 88658), (12, 88721), (15, 88784), (17, 88829), (18, 88847),

Gene: Constella\_159 Start: 86642, Stop: 86956, Start Num: 4

Candidate Starts for Constella\_159:

(Start: 4 @86642 has 19 MA's), (8, 86711), (13, 86828),

Gene: Courthouse\_158 Start: 83473, Stop: 83730, Start Num: 7

Candidate Starts for Courthouse\_158:

(1, 83395), (2, 83410), (Start: 7 @83473 has 2 MA's), (8, 83485), (10, 83515), (11, 83560), (14, 83605), (16, 83653),

Gene: Dove\_150 Start: 82469, Stop: 82783, Start Num: 4

Candidate Starts for Dove\_150:

(Start: 4 @82469 has 19 MA's), (8, 82538), (13, 82655),

Gene: Duke13\_165 Start: 86382, Stop: 86696, Start Num: 4

Candidate Starts for Duke13\_165:

(Start: 4 @86382 has 19 MA's), (8, 86451), (13, 86568),

Gene: Ejimix\_154 Start: 86094, Stop: 86408, Start Num: 4

Candidate Starts for Ejimix\_154:

(Start: 4 @86094 has 19 MA's), (8, 86163), (13, 86280),

Gene: EricMillard\_161 Start: 87725, Stop: 88039, Start Num: 4

Candidate Starts for EricMillard\_161:

(Start: 4 @87725 has 19 MA's), (8, 87794), (13, 87911),

Gene: Gonephishing\_155 Start: 84870, Stop: 85190, Start Num: 2

Candidate Starts for Gonephishing\_155:

(1, 84855), (2, 84870), (Start: 7 @84933 has 2 MA's), (8, 84945), (10, 84975), (11, 85020), (14, 85065), (16, 85113),

Gene: Halley\_164 Start: 86410, Stop: 86724, Start Num: 4

Candidate Starts for Halley\_164:

(Start: 4 @86410 has 19 MA's), (8, 86479), (13, 86596),

Gene: Hughesyang\_162 Start: 86917, Stop: 87231, Start Num: 4

Candidate Starts for Hughesyang\_162:

(Start: 4 @86917 has 19 MA's), (8, 86986), (13, 87103),

Gene: JonJames\_171 Start: 90387, Stop: 90704, Start Num: 3

Candidate Starts for JonJames\_171:

(Start: 3 @90387 has 2 MA's), (5, 90426), (6, 90432), (Start: 7 @90438 has 2 MA's), (9, 90471), (12, 90534), (15, 90597), (17, 90642), (18, 90660),

Gene: Kalah2\_159 Start: 87313, Stop: 87627, Start Num: 4

Candidate Starts for Kalah2\_159:

(Start: 4 @87313 has 19 MA's), (8, 87382), (13, 87499),

Gene: Klein\_166 Start: 85673, Stop: 85987, Start Num: 4  
Candidate Starts for Klein\_166:  
(Start: 4 @85673 has 19 MA's), (8, 85742), (13, 85859),

Gene: Lucky2013\_157 Start: 82436, Stop: 82693, Start Num: 7  
Candidate Starts for Lucky2013\_157:  
(1, 82358), (2, 82373), (Start: 7 @82436 has 2 MA's), (8, 82448), (10, 82478), (11, 82523), (14, 82568),  
(16, 82616),

Gene: Omega\_172 Start: 88730, Stop: 89044, Start Num: 4  
Candidate Starts for Omega\_172:  
(Start: 4 @88730 has 19 MA's), (8, 88799), (13, 88916),

Gene: Optimus\_159 Start: 86202, Stop: 86516, Start Num: 4  
Candidate Starts for Optimus\_159:  
(Start: 4 @86202 has 19 MA's), (8, 86271), (13, 86388),

Gene: Phoebus\_164 Start: 89651, Stop: 89965, Start Num: 4  
Candidate Starts for Phoebus\_164:  
(Start: 4 @89651 has 19 MA's), (8, 89720), (13, 89837),

Gene: Redno2\_157 Start: 83764, Stop: 84078, Start Num: 4  
Candidate Starts for Redno2\_157:  
(Start: 4 @83764 has 19 MA's), (8, 83833), (13, 83950),

Gene: Schatzie\_158 Start: 86724, Stop: 87038, Start Num: 4  
Candidate Starts for Schatzie\_158:  
(Start: 4 @86724 has 19 MA's), (8, 86793), (13, 86910),

Gene: Thibault\_146 Start: 83138, Stop: 83452, Start Num: 4  
Candidate Starts for Thibault\_146:  
(Start: 4 @83138 has 19 MA's), (8, 83207), (13, 83324),

Gene: ThreeRngTarjay\_160 Start: 87598, Stop: 87912, Start Num: 4  
Candidate Starts for ThreeRngTarjay\_160:  
(Start: 4 @87598 has 19 MA's), (8, 87667), (13, 87784),

Gene: Wanda\_161 Start: 84189, Stop: 84503, Start Num: 4  
Candidate Starts for Wanda\_161:  
(Start: 4 @84189 has 19 MA's), (8, 84258), (13, 84375),

Gene: Yvonnetastic\_166 Start: 86474, Stop: 86791, Start Num: 3  
Candidate Starts for Yvonnetastic\_166:  
(Start: 3 @86474 has 2 MA's), (5, 86513), (6, 86519), (Start: 7 @86525 has 2 MA's), (9, 86558), (12,  
86621), (17, 86729), (18, 86747),