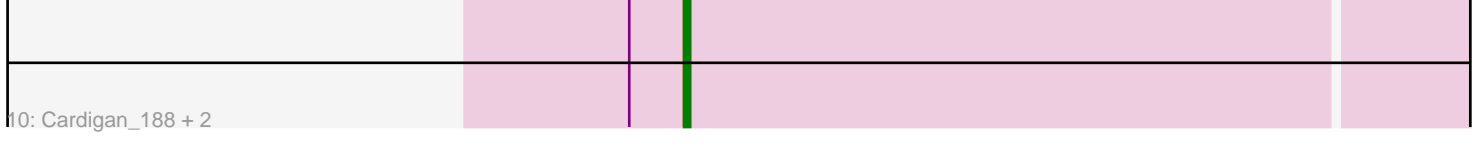
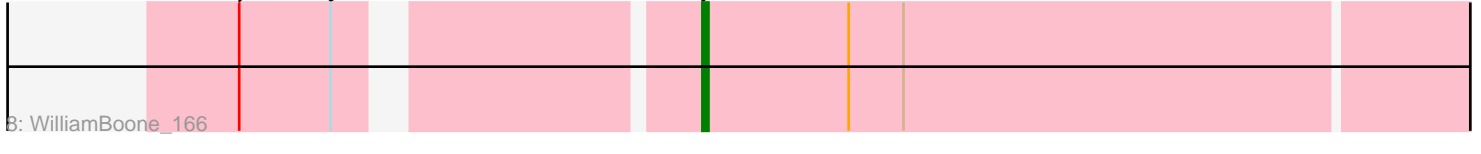
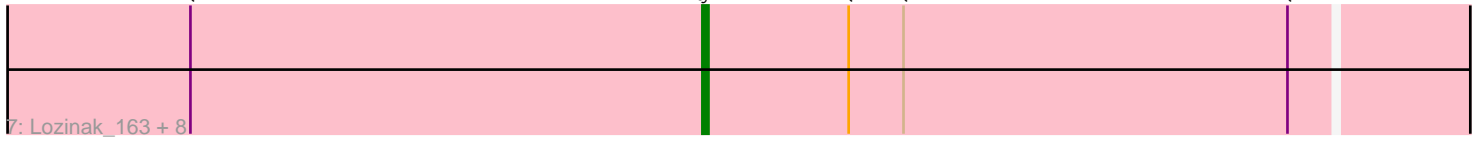
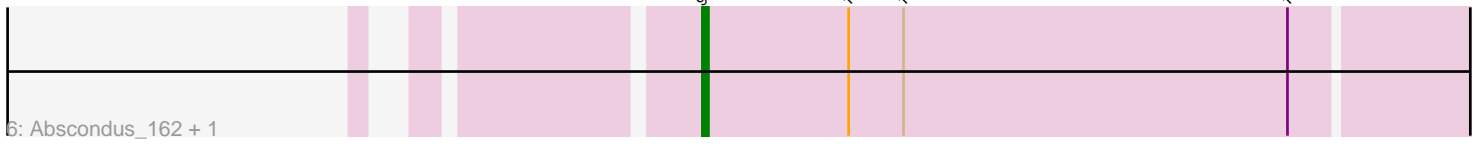
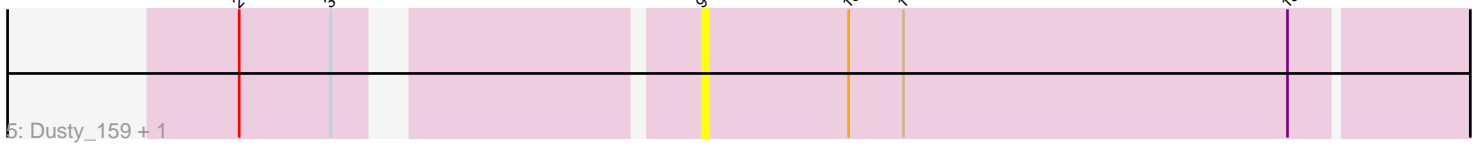
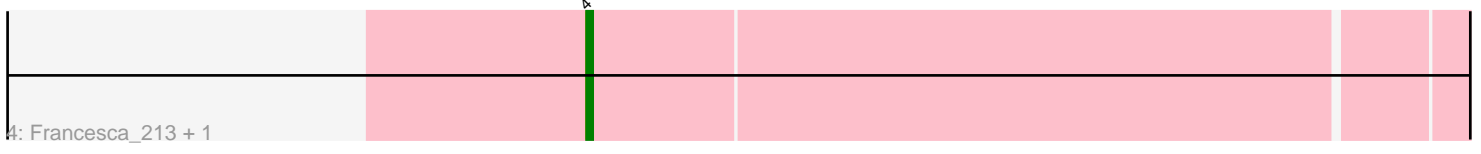
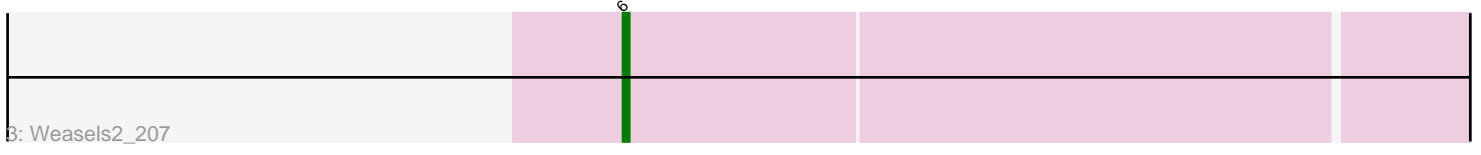
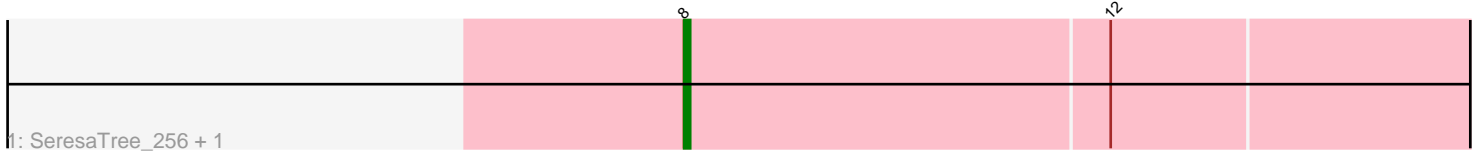


# Pham 171725



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 171725 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171725 has 25 members, 6 are drafts.

Phages represented in each track:

- Track 1 : SeresaTree\_256, Faust\_252
- Track 2 : Grayson\_204
- Track 3 : Weasels2\_207
- Track 4 : Francesca\_213, Dorin\_213
- Track 5 : Dusty\_159, Miskis\_162
- Track 6 : Abscondus\_162, OneUp\_148
- Track 7 : Lozinak\_163, PhinkBoden\_161, Toniann\_163, Norvs\_161, ClubL\_164, Smoothie\_165, Bachita\_166, Aphelion\_162, Cucurbita\_162
- Track 8 : WilliamBoone\_166
- Track 9 : Culver\_163, Engineer\_165
- Track 10 : Cardigan\_188, Yvonnetastic\_182, JonJames\_182

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

The start number called the most often in the published annotations is 9, it was called in 13 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_162, Aphelion\_162, Bachita\_166, ClubL\_164, Cucurbita\_162, Culver\_163, Dusty\_159, Engineer\_165, Lozinak\_163, Miskis\_162, Norvs\_161, OneUp\_148, PhinkBoden\_161, Smoothie\_165, Toniann\_163, WilliamBoone\_166,

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

- 

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

- Cardigan\_188, Dorin\_213, Faust\_252, Francesca\_213, Grayson\_204, JonJames\_182, SeresaTree\_256, Weasels2\_207, Yvonnetastic\_182,

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

Start 4:

- Found in 2 of 25 ( 8.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin\_213 (CG), Francesca\_213 (CG),

Start 5:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson\_204 (CB),

Start 6:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weasels2\_207 (CB),

Start 8:

- Found in 5 of 25 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan\_188 (DD), Faust\_252 (BK1), JonJames\_182 (DD), SeresaTree\_256 (BK1), Yvonnetastic\_182 (DD),

Start 9:

- Found in 16 of 25 ( 64.0% ) of genes in pham
- Manual Annotations of this start: 13 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus\_162 (CQ), Aphelion\_162 (CQ1), Bachita\_166 (CQ1), ClubL\_164 (CQ1), Cucurbita\_162 (CQ1), Culver\_163 (CQ1), Dusty\_159 (CQ), Engineer\_165 (CQ1), Lozinak\_163 (CQ1), Miskis\_162 (CQ), Norvs\_161 (CQ), OneUp\_148 (CQ2), PhinkBoden\_161 (CQ1), Smoothie\_165 (CQ1), Toniann\_163 (CQ1), WilliamBoone\_166 (CQ1),

### **Summary by clusters:**

There are 7 clusters represented in this pham: CB, DD, CG, BK1, CQ2, CQ1, CQ,

Info for manual annotations of cluster BK1:

- Start number 8 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster CB:

- Start number 5 was manually annotated 1 time for cluster CB.
- Start number 6 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CG:

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

Info for manual annotations of cluster CQ:

- Start number 9 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 9 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

•Start number 9 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DD:

•Start number 8 was manually annotated 2 times for cluster DD.

**Gene Information:**

Gene: Abscondus\_162 Start: 84649, Stop: 84503, Start Num: 9

Candidate Starts for Abscondus\_162:

(Start: 9 @84649 has 13 MA's), (10, 84625), (11, 84616), (13, 84553),

Gene: Aphelion\_162 Start: 85605, Stop: 85459, Start Num: 9

Candidate Starts for Aphelion\_162:

(1, 85689), (Start: 9 @85605 has 13 MA's), (10, 85581), (11, 85572), (13, 85509),

Gene: Bachita\_166 Start: 85683, Stop: 85537, Start Num: 9

Candidate Starts for Bachita\_166:

(1, 85767), (Start: 9 @85683 has 13 MA's), (10, 85659), (11, 85650), (13, 85587),

Gene: Cardigan\_188 Start: 93413, Stop: 93258, Start Num: 8

Candidate Starts for Cardigan\_188:

(7, 93422), (Start: 8 @93413 has 3 MA's),

Gene: ClubL\_164 Start: 84926, Stop: 84780, Start Num: 9

Candidate Starts for ClubL\_164:

(1, 85010), (Start: 9 @84926 has 13 MA's), (10, 84902), (11, 84893), (13, 84830),

Gene: Cucurbita\_162 Start: 85987, Stop: 85841, Start Num: 9

Candidate Starts for Cucurbita\_162:

(1, 86071), (Start: 9 @85987 has 13 MA's), (10, 85963), (11, 85954), (13, 85891),

Gene: Culver\_163 Start: 84156, Stop: 84010, Start Num: 9

Candidate Starts for Culver\_163:

(Start: 9 @84156 has 13 MA's), (10, 84132), (11, 84123),

Gene: Dorin\_213 Start: 113227, Stop: 113382, Start Num: 4

Candidate Starts for Dorin\_213:

(Start: 4 @113227 has 1 MA's),

Gene: Dusty\_159 Start: 84473, Stop: 84327, Start Num: 9

Candidate Starts for Dusty\_159:

(2, 84539), (3, 84524), (Start: 9 @84473 has 13 MA's), (10, 84449), (11, 84440), (13, 84377),

Gene: Engineer\_165 Start: 85558, Stop: 85409, Start Num: 9

Candidate Starts for Engineer\_165:

(Start: 9 @85558 has 13 MA's), (10, 85534), (11, 85525),

Gene: Faust\_252 Start: 121119, Stop: 121268, Start Num: 8

Candidate Starts for Faust\_252:

(Start: 8 @121119 has 3 MA's), (12, 121188),

Gene: Francesca\_213 Start: 113879, Stop: 114034, Start Num: 4  
Candidate Starts for Francesca\_213:  
(Start: 4 @113879 has 1 MA's),

Gene: Grayson\_204 Start: 104125, Stop: 104274, Start Num: 5  
Candidate Starts for Grayson\_204:  
(Start: 5 @104125 has 1 MA's),

Gene: JonJames\_182 Start: 94333, Stop: 94178, Start Num: 8  
Candidate Starts for JonJames\_182:  
(7, 94342), (Start: 8 @94333 has 3 MA's),

Gene: Lozinak\_163 Start: 85530, Stop: 85384, Start Num: 9  
Candidate Starts for Lozinak\_163:  
(1, 85614), (Start: 9 @85530 has 13 MA's), (10, 85506), (11, 85497), (13, 85434),

Gene: Miskis\_162 Start: 84354, Stop: 84208, Start Num: 9  
Candidate Starts for Miskis\_162:  
(2, 84420), (3, 84405), (Start: 9 @84354 has 13 MA's), (10, 84330), (11, 84321), (13, 84258),

Gene: Norvs\_161 Start: 84706, Stop: 84560, Start Num: 9  
Candidate Starts for Norvs\_161:  
(1, 84790), (Start: 9 @84706 has 13 MA's), (10, 84682), (11, 84673), (13, 84610),

Gene: OneUp\_148 Start: 84410, Stop: 84264, Start Num: 9  
Candidate Starts for OneUp\_148:  
(Start: 9 @84410 has 13 MA's), (10, 84386), (11, 84377), (13, 84314),

Gene: PhinkBoden\_161 Start: 85104, Stop: 84958, Start Num: 9  
Candidate Starts for PhinkBoden\_161:  
(1, 85188), (Start: 9 @85104 has 13 MA's), (10, 85080), (11, 85071), (13, 85008),

Gene: SeresaTree\_256 Start: 121344, Stop: 121493, Start Num: 8  
Candidate Starts for SeresaTree\_256:  
(Start: 8 @121344 has 3 MA's), (12, 121413),

Gene: Smoothie\_165 Start: 85402, Stop: 85256, Start Num: 9  
Candidate Starts for Smoothie\_165:  
(1, 85486), (Start: 9 @85402 has 13 MA's), (10, 85378), (11, 85369), (13, 85306),

Gene: Toniann\_163 Start: 84847, Stop: 84701, Start Num: 9  
Candidate Starts for Toniann\_163:  
(1, 84931), (Start: 9 @84847 has 13 MA's), (10, 84823), (11, 84814), (13, 84751),

Gene: Weasels2\_207 Start: 107383, Stop: 107529, Start Num: 6  
Candidate Starts for Weasels2\_207:  
(Start: 6 @107383 has 1 MA's),

Gene: WilliamBoone\_166 Start: 83511, Stop: 83365, Start Num: 9  
Candidate Starts for WilliamBoone\_166:  
(2, 83577), (3, 83562), (Start: 9 @83511 has 13 MA's), (10, 83487), (11, 83478),

Gene: Yvonnetastic\_182 Start: 91232, Stop: 91077, Start Num: 8

Candidate Starts for Yvonnetastic\_182:  
(7, 91241), (Start: 8 @91232 has 3 MA's),