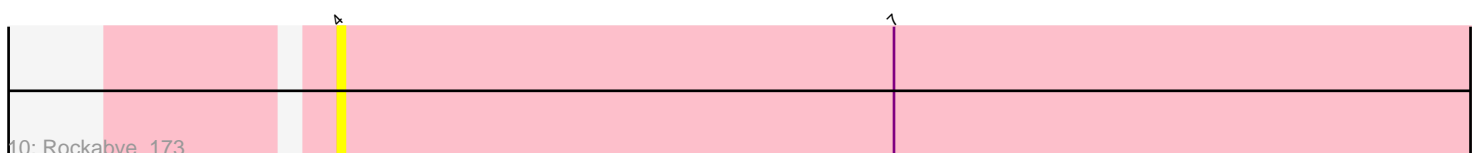
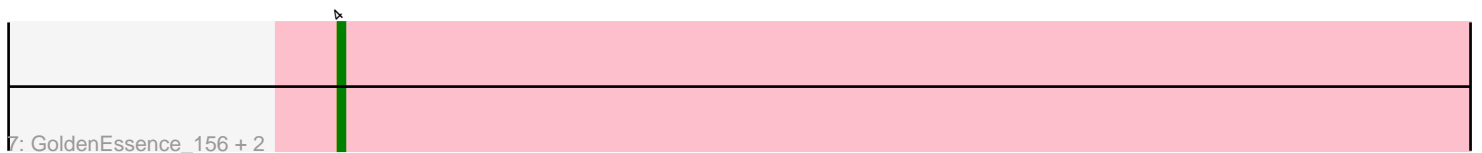
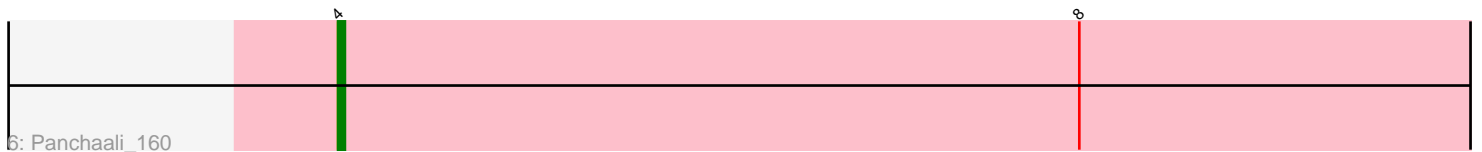
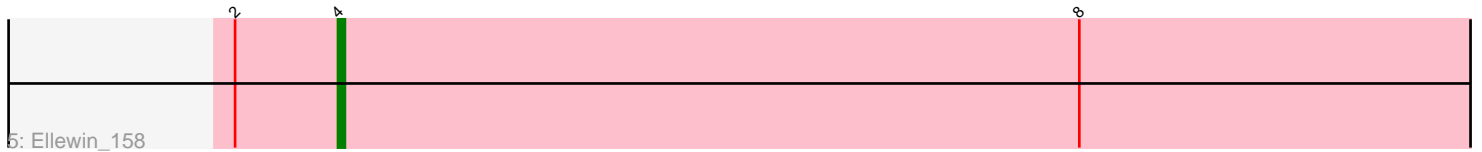
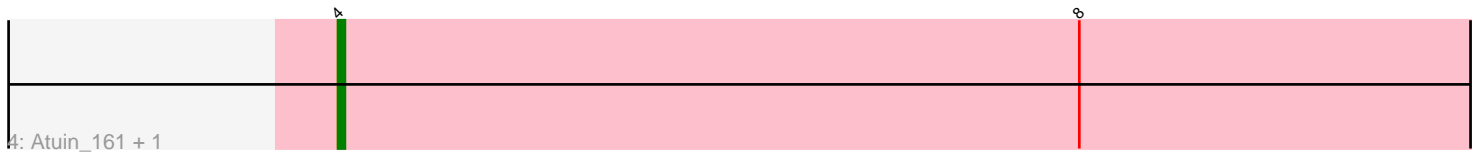
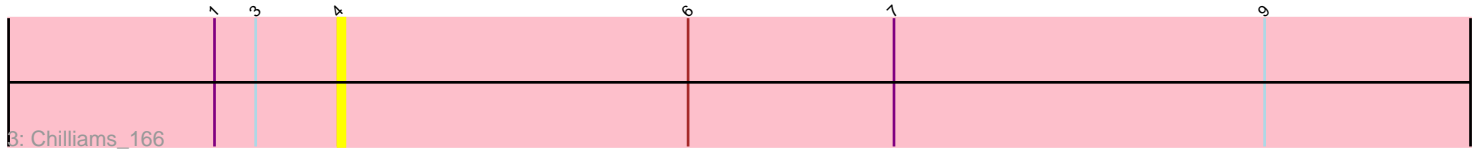
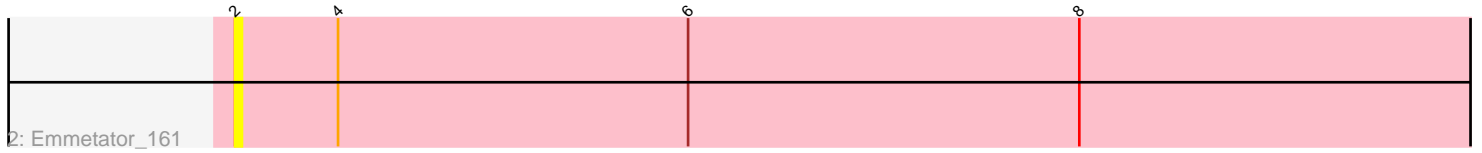
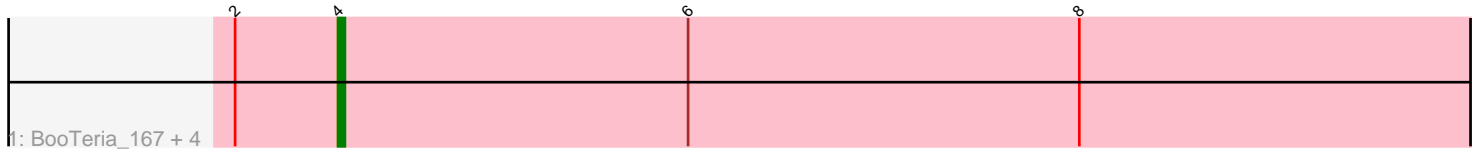


Pham 298865



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 298865 Report

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

Pham number 298865 has 17 members, 8 are drafts.

Phages represented in each track:

- Track 1 : BooTeria\_167, DunneganBoMo\_158, Artu\_160, WaddleDee\_154, KSunshine22\_163
- Track 2 : Emmetator\_161
- Track 3 : Chilliams\_166
- Track 4 : Atuin\_161, ReginaGlobina\_174
- Track 5 : Ellewin\_158
- Track 6 : Panchaali\_160
- Track 7 : GoldenEssence\_156, Patbob\_167, Talia1610\_170
- Track 8 : Phrampa\_161
- Track 9 : Stewart25555\_158
- Track 10 : Rockabye\_173

### ***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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artu\_160, Atuin\_161, BooTeria\_167, Chilliams\_166, DunneganBoMo\_158, Ellewin\_158, GoldenEssence\_156, KSunshine22\_163, Panchaali\_160, Patbob\_167, Phrampa\_161, ReginaGlobina\_174, Rockabye\_173, Stewart25555\_158, Talia1610\_170, WaddleDee\_154,

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

- Emmetator\_161,

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

- 

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

Start 2:

- Found in 7 of 17 ( 41.2% ) of genes in pham
- No Manual Annotations of this start.

- Called 14.3% of time when present
- Phage (with cluster) where this start called: Emmetator\_161 (FC),

Start 4:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Artu\_160 (FC), Atuin\_161 (FC), BooTeria\_167 (FC), Chilliams\_166 (FC), DunneganBoMo\_158 (FC), Ellewin\_158 (FC), GoldenEssence\_156 (FC), KSunshine22\_163 (FC), Panchaali\_160 (FC), Patbob\_167 (FC), Phrampa\_161 (FC), ReginaGlobina\_174 (FC), Rockabye\_173 (FC), Stewart25555\_158 (FC), Talia1610\_170 (FC), WaddleDee\_154 (FC),

### Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 4 was manually annotated 9 times for cluster FC.

### **Gene Information:**

Gene: Artu\_160 Start: 109245, Stop: 109442, Start Num: 4

Candidate Starts for Artu\_160:

(2, 109230), (Start: 4 @109245 has 9 MA's), (6, 109296), (8, 109353),

Gene: Atuin\_161 Start: 111687, Stop: 111881, Start Num: 4

Candidate Starts for Atuin\_161:

(Start: 4 @111687 has 9 MA's), (8, 111795),

Gene: BooTeria\_167 Start: 109325, Stop: 109522, Start Num: 4

Candidate Starts for BooTeria\_167:

(2, 109310), (Start: 4 @109325 has 9 MA's), (6, 109376), (8, 109433),

Gene: Chilliams\_166 Start: 103103, Stop: 103294, Start Num: 4

Candidate Starts for Chilliams\_166:

(1, 103085), (3, 103091), (Start: 4 @103103 has 9 MA's), (6, 103154), (7, 103184), (9, 103238),

Gene: DunneganBoMo\_158 Start: 108594, Stop: 108791, Start Num: 4

Candidate Starts for DunneganBoMo\_158:

(2, 108579), (Start: 4 @108594 has 9 MA's), (6, 108645), (8, 108702),

Gene: Ellewin\_158 Start: 108698, Stop: 108895, Start Num: 4

Candidate Starts for Ellewin\_158:

(2, 108683), (Start: 4 @108698 has 9 MA's), (8, 108806),

Gene: Emmetator\_161 Start: 108892, Stop: 109104, Start Num: 2

Candidate Starts for Emmetator\_161:

(2, 108892), (Start: 4 @108907 has 9 MA's), (6, 108958), (8, 109015),

Gene: GoldenEssence\_156 Start: 105972, Stop: 106145, Start Num: 4

Candidate Starts for GoldenEssence\_156:

(Start: 4 @105972 has 9 MA's),

Gene: KSunshine22\_163 Start: 109657, Stop: 109854, Start Num: 4

Candidate Starts for KSunshine22\_163:

(2, 109642), (Start: 4 @109657 has 9 MA's), (6, 109708), (8, 109765),

Gene: Panchaali\_160 Start: 109408, Stop: 109602, Start Num: 4

Candidate Starts for Panchaali\_160:

(Start: 4 @109408 has 9 MA's), (8, 109516),

Gene: Patbob\_167 Start: 112594, Stop: 112767, Start Num: 4

Candidate Starts for Patbob\_167:

(Start: 4 @112594 has 9 MA's),

Gene: Phrampa\_161 Start: 114167, Stop: 114343, Start Num: 4

Candidate Starts for Phrampa\_161:

(Start: 4 @114167 has 9 MA's), (5, 114188),

Gene: ReginaGlobina\_174 Start: 113570, Stop: 113764, Start Num: 4

Candidate Starts for ReginaGlobina\_174:

(Start: 4 @113570 has 9 MA's), (8, 113678),

Gene: Rockabye\_173 Start: 105115, Stop: 105306, Start Num: 4

Candidate Starts for Rockabye\_173:

(Start: 4 @105115 has 9 MA's), (7, 105196),

Gene: Stewart25555\_158 Start: 109692, Stop: 109886, Start Num: 4

Candidate Starts for Stewart25555\_158:

(Start: 4 @109692 has 9 MA's), (8, 109797),

Gene: Talia1610\_170 Start: 112415, Stop: 112588, Start Num: 4

Candidate Starts for Talia1610\_170:

(Start: 4 @112415 has 9 MA's),

Gene: WaddleDee\_154 Start: 107780, Stop: 107977, Start Num: 4

Candidate Starts for WaddleDee\_154:

(2, 107765), (Start: 4 @107780 has 9 MA's), (6, 107831), (8, 107888),