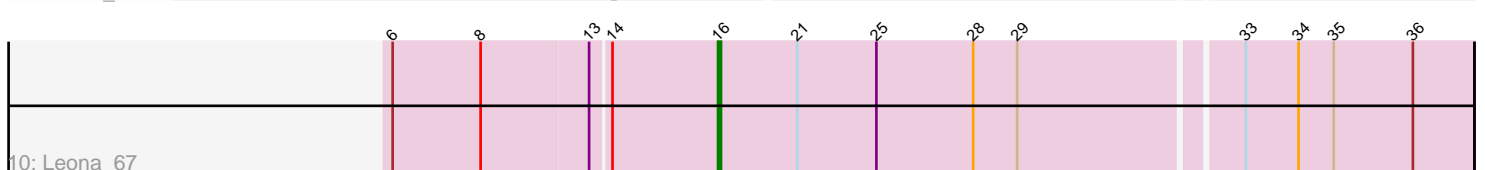
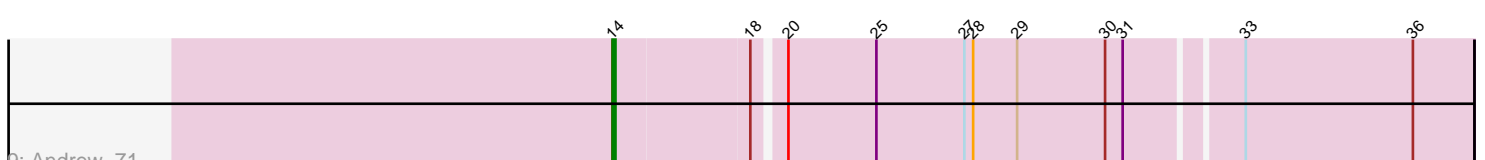
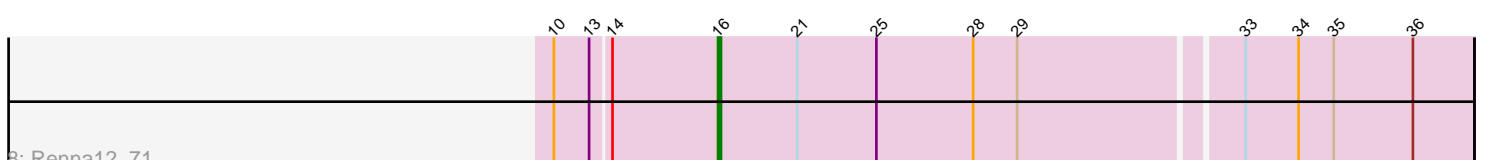
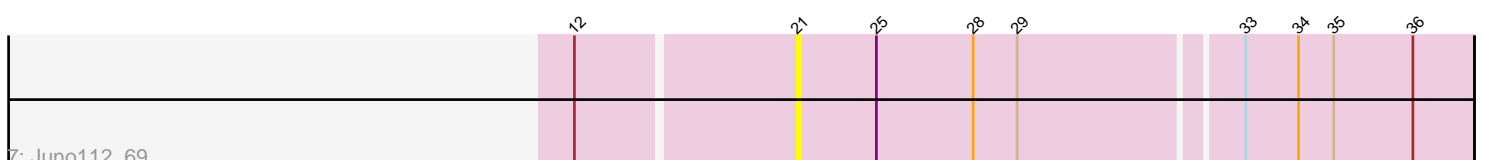
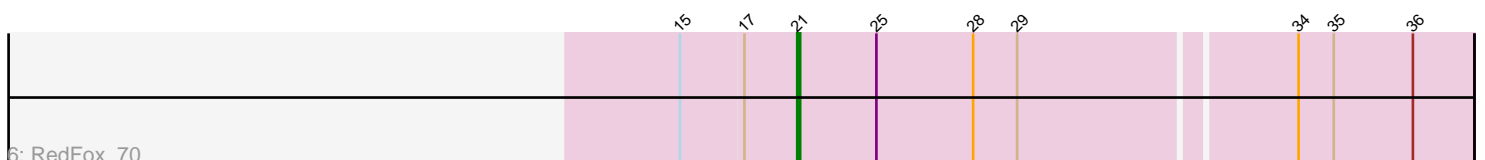
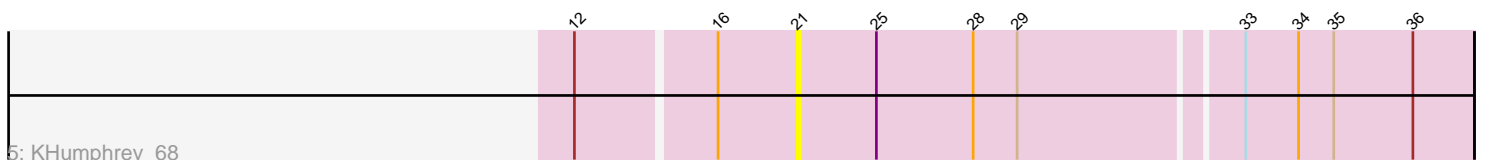
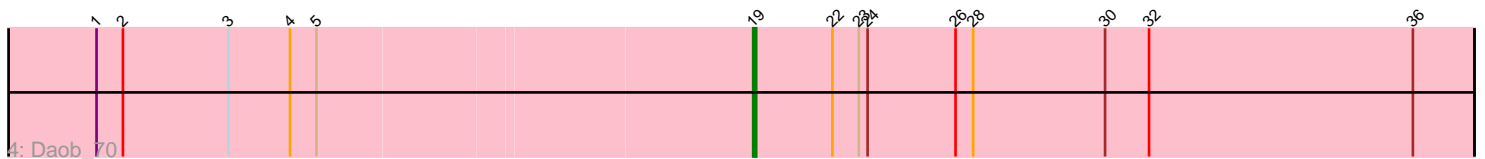
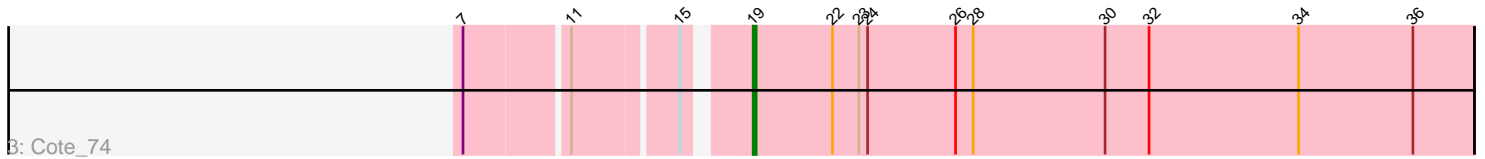
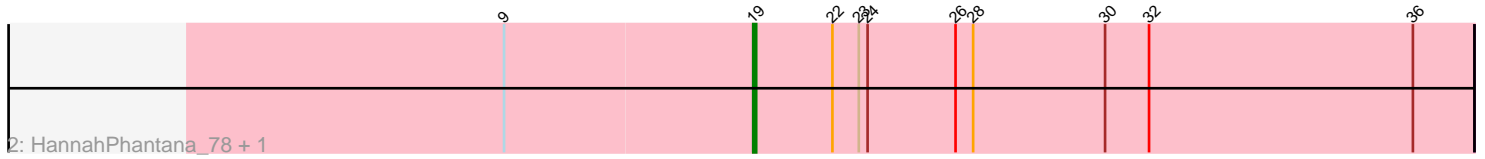
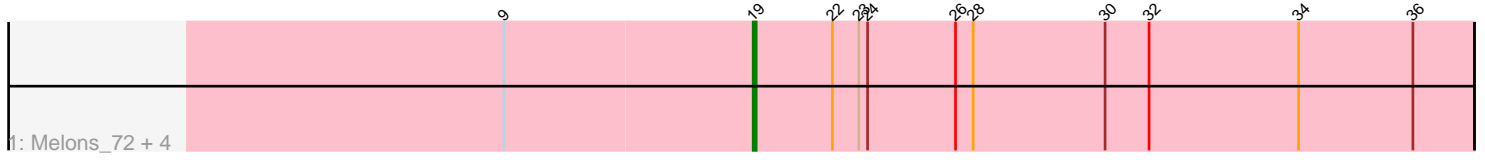


# Pham 171852



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 171852 Report

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

Pham number 171852 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Melons\_72, Coral\_71, Amelia\_70, Kepler\_74, Lunar\_72
- Track 2 : HannahPhantana\_78, Polka\_70
- Track 3 : Cote\_74
- Track 4 : Daob\_70
- Track 5 : KHumphrey\_68
- Track 6 : RedFox\_70
- Track 7 : Juno112\_69
- Track 8 : Renna12\_71
- Track 9 : Andrew\_71
- Track 10 : Leona\_67

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

The start number called the most often in the published annotations is 19, it was called in 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amelia\_70, Coral\_71, Cote\_74, Daob\_70, HannahPhantana\_78, Kepler\_74, Lunar\_72, Melons\_72, Polka\_70,

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

- 

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

- Andrew\_71, Juno112\_69, KHumphrey\_68, Leona\_67, RedFox\_70, Renna12\_71,

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

Start 14:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Andrew\_71 (AS3),

Start 16:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Leona\_67 (AS3), Renna12\_71 (AS3),

Start 19:

- Found in 9 of 15 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 8 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelia\_70 (AS2), Coral\_71 (AS2), Cote\_74 (AS2), Daob\_70 (AS2), HannahPhantana\_78 (AS2), Kepler\_74 (AS2), Lunar\_72 (AS2), Melons\_72 (AS2), Polka\_70 (AS2),

Start 21:

- Found in 5 of 15 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Juno112\_69 (AS3), KHumphrey\_68 (AS3), RedFox\_70 (AS3),

**Summary by clusters:**

There are 2 clusters represented in this pham: AS3, AS2,

Info for manual annotations of cluster AS2:

- Start number 19 was manually annotated 8 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 14 was manually annotated 1 time for cluster AS3.
- Start number 16 was manually annotated 2 times for cluster AS3.
- Start number 21 was manually annotated 1 time for cluster AS3.

**Gene Information:**

Gene: Amelia\_70 Start: 37346, Stop: 37591, Start Num: 19

Candidate Starts for Amelia\_70:

(9, 37262), (Start: 19 @37346 has 8 MA's), (22, 37373), (23, 37382), (24, 37385), (26, 37415), (28, 37421), (30, 37466), (32, 37481), (34, 37532), (36, 37571),

Gene: Andrew\_71 Start: 37949, Stop: 38230, Start Num: 14

Candidate Starts for Andrew\_71:

(Start: 14 @37949 has 1 MA's), (18, 37994), (20, 38003), (25, 38033), (27, 38063), (28, 38066), (29, 38081), (30, 38111), (31, 38117), (33, 38153), (36, 38210),

Gene: Coral\_71 Start: 37538, Stop: 37783, Start Num: 19

Candidate Starts for Coral\_71:

(9, 37454), (Start: 19 @37538 has 8 MA's), (22, 37565), (23, 37574), (24, 37577), (26, 37607), (28, 37613), (30, 37658), (32, 37673), (34, 37724), (36, 37763),

Gene: Cote\_74 Start: 38262, Stop: 38507, Start Num: 19

Candidate Starts for Cote\_74:

(7, 38181), (11, 38214), (15, 38247), (Start: 19 @38262 has 8 MA's), (22, 38289), (23, 38298), (24, 38301), (26, 38331), (28, 38337), (30, 38382), (32, 38397), (34, 38448), (36, 38487),

Gene: Daob\_70 Start: 37188, Stop: 37433, Start Num: 19

Candidate Starts for Daob\_70:

(1, 36969), (2, 36978), (3, 37014), (4, 37035), (5, 37044), (Start: 19 @37188 has 8 MA's), (22, 37215), (23, 37224), (24, 37227), (26, 37257), (28, 37263), (30, 37308), (32, 37323), (36, 37413),

Gene: HannahPhantana\_78 Start: 37341, Stop: 37586, Start Num: 19

Candidate Starts for HannahPhantana\_78:

(9, 37257), (Start: 19 @37341 has 8 MA's), (22, 37368), (23, 37377), (24, 37380), (26, 37410), (28, 37416), (30, 37461), (32, 37476), (36, 37566),

Gene: Juno112\_69 Start: 37637, Stop: 37861, Start Num: 21

Candidate Starts for Juno112\_69:

(12, 37565), (Start: 21 @37637 has 1 MA's), (25, 37664), (28, 37697), (29, 37712), (33, 37784), (34, 37802), (35, 37814), (36, 37841),

Gene: KHumphrey\_68 Start: 37510, Stop: 37734, Start Num: 21

Candidate Starts for KHumphrey\_68:

(12, 37438), (Start: 16 @37483 has 2 MA's), (Start: 21 @37510 has 1 MA's), (25, 37537), (28, 37570), (29, 37585), (33, 37657), (34, 37675), (35, 37687), (36, 37714),

Gene: Kepler\_74 Start: 37670, Stop: 37915, Start Num: 19

Candidate Starts for Kepler\_74:

(9, 37586), (Start: 19 @37670 has 8 MA's), (22, 37697), (23, 37706), (24, 37709), (26, 37739), (28, 37745), (30, 37790), (32, 37805), (34, 37856), (36, 37895),

Gene: Leona\_67 Start: 37757, Stop: 38008, Start Num: 16

Candidate Starts for Leona\_67:

(6, 37649), (8, 37679), (13, 37715), (Start: 14 @37721 has 1 MA's), (Start: 16 @37757 has 2 MA's), (Start: 21 @37784 has 1 MA's), (25, 37811), (28, 37844), (29, 37859), (33, 37931), (34, 37949), (35, 37961), (36, 37988),

Gene: Lunar\_72 Start: 37670, Stop: 37915, Start Num: 19

Candidate Starts for Lunar\_72:

(9, 37586), (Start: 19 @37670 has 8 MA's), (22, 37697), (23, 37706), (24, 37709), (26, 37739), (28, 37745), (30, 37790), (32, 37805), (34, 37856), (36, 37895),

Gene: Melons\_72 Start: 37679, Stop: 37924, Start Num: 19

Candidate Starts for Melons\_72:

(9, 37595), (Start: 19 @37679 has 8 MA's), (22, 37706), (23, 37715), (24, 37718), (26, 37748), (28, 37754), (30, 37799), (32, 37814), (34, 37865), (36, 37904),

Gene: Polka\_70 Start: 37295, Stop: 37540, Start Num: 19

Candidate Starts for Polka\_70:

(9, 37211), (Start: 19 @37295 has 8 MA's), (22, 37322), (23, 37331), (24, 37334), (26, 37364), (28, 37370), (30, 37415), (32, 37430), (36, 37520),

Gene: RedFox\_70 Start: 37895, Stop: 38119, Start Num: 21

Candidate Starts for RedFox\_70:

(15, 37856), (17, 37877), (Start: 21 @37895 has 1 MA's), (25, 37922), (28, 37955), (29, 37970), (34, 38060), (35, 38072), (36, 38099),

Gene: Renna12\_71 Start: 38335, Stop: 38586, Start Num: 16

Candidate Starts for Renna12\_71:

(10, 38281), (13, 38293), (Start: 14 @38299 has 1 MA's), (Start: 16 @38335 has 2 MA's), (Start: 21 @38362 has 1 MA's), (25, 38389), (28, 38422), (29, 38437), (33, 38509), (34, 38527), (35, 38539), (36, 38566),