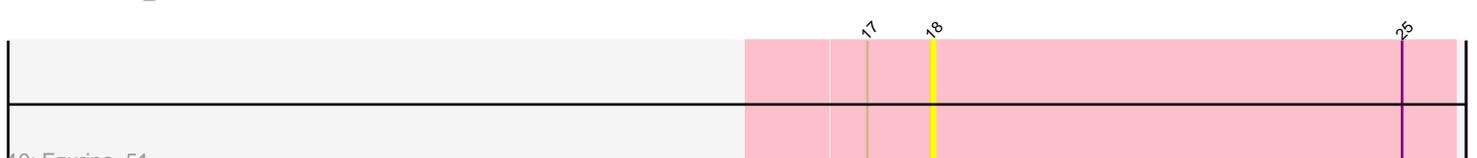
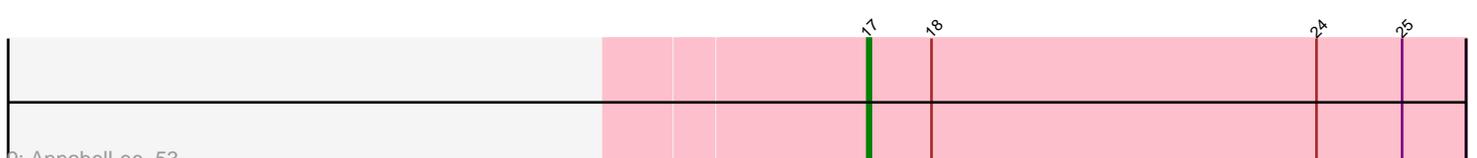
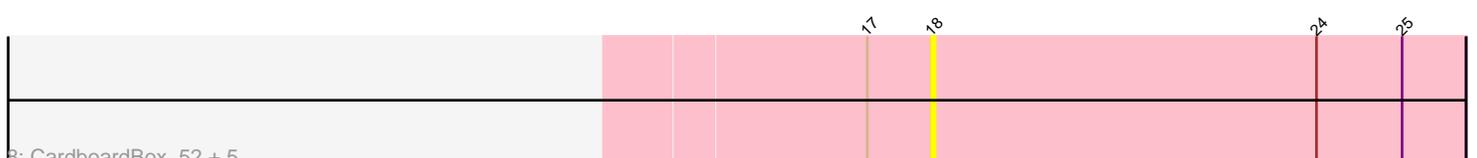
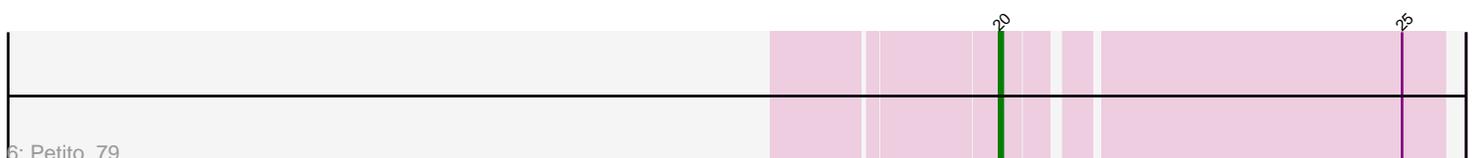
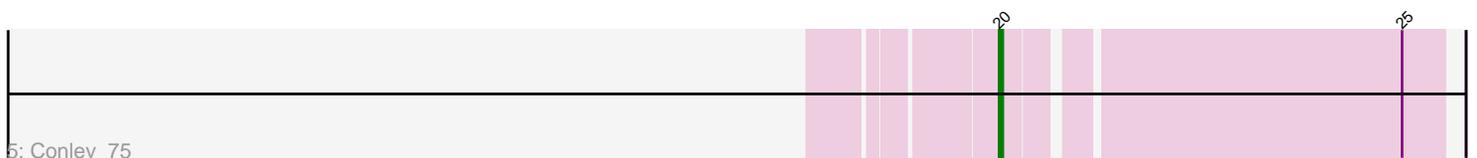
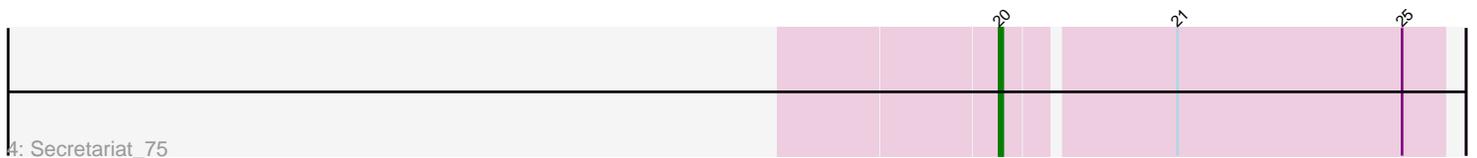
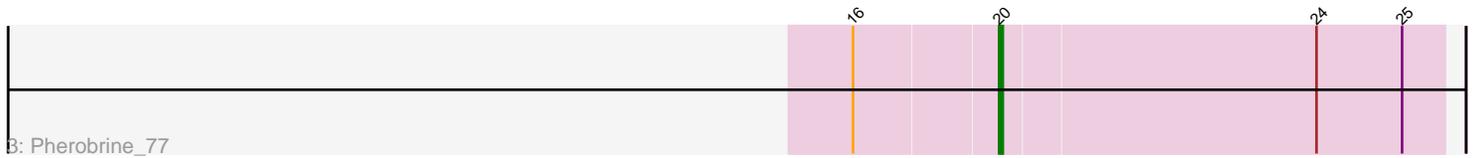
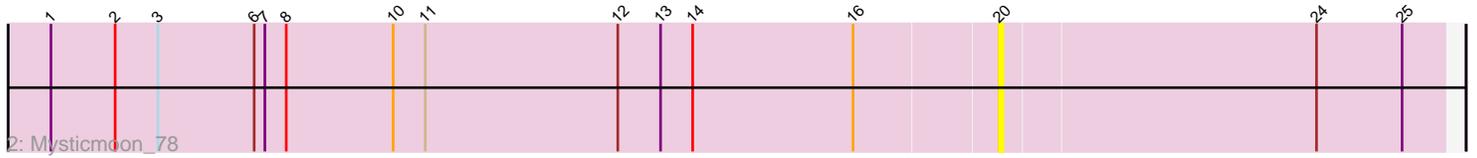
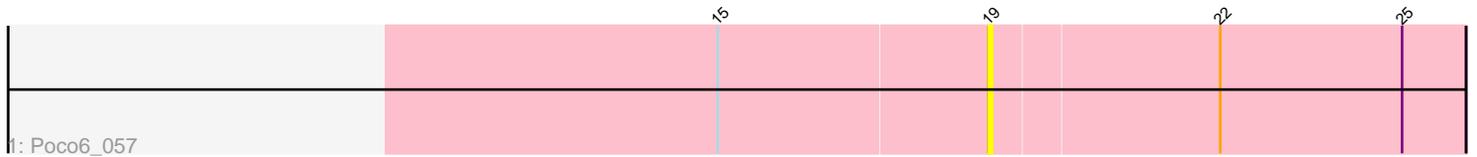


# Pham 291649



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 291649 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291649 has 15 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Poco6\_057
- Track 2 : Mysticmoon\_78
- Track 3 : Pherobrine\_77
- Track 4 : Secretariat\_75
- Track 5 : Conley\_75
- Track 6 : Petite\_79
- Track 7 : Studio\_54
- Track 8 : CardboardBox\_52, Gerri43\_52, Roberts\_51, Neuville\_51, ChamoyPickle\_53, ChipsNGuac\_52
- Track 9 : AnnabelLee\_53
- Track 10 : Ezurina\_51

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

The start number called the most often in the published annotations is 20, it was called in 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Conley\_75, Mysticmoon\_78, Petite\_79, Pherobrine\_77, Secretariat\_75,

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

- 

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

- AnnabelLee\_53, CardboardBox\_52, ChamoyPickle\_53, ChipsNGuac\_52, Ezurina\_51, Gerri43\_52, Neuville\_51, Poco6\_057, Roberts\_51, Studio\_54,

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

Start 17:

- Found in 9 of 15 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 11.1% of time when present
- Phage (with cluster) where this start called: AnnabelLee\_53 (FR),

Start 18:

- Found in 9 of 15 ( 60.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 88.9% of time when present
- Phage (with cluster) where this start called: CardboardBox\_52 (FR), ChamoyPickle\_53 (FR), ChipsNGuac\_52 (FR), Ezurina\_51 (FR), Gerri43\_52 (FR), Neuville\_51 (FR), Roberts\_51 (FR), Studio\_54 (FR),

Start 19:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Poco6\_057 (CC),

Start 20:

- Found in 5 of 15 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Conley\_75 (DJ), Mysticmoon\_78 (DJ), Petite\_79 (DJ), Pherobrine\_77 (DJ), Secretariat\_75 (DJ),

**Summary by clusters:**

There are 3 clusters represented in this pham: CC, FR, DJ,

Info for manual annotations of cluster DJ:

- Start number 20 was manually annotated 4 times for cluster DJ.

Info for manual annotations of cluster FR:

- Start number 17 was manually annotated 1 time for cluster FR.

**Gene Information:**

Gene: AnnabelLee\_53 Start: 32600, Stop: 32433, Start Num: 17

Candidate Starts for AnnabelLee\_53:

(Start: 17 @32600 has 1 MA's), (18, 32582), (24, 32474), (25, 32450),

Gene: CardboardBox\_52 Start: 32585, Stop: 32436, Start Num: 18

Candidate Starts for CardboardBox\_52:

(Start: 17 @32603 has 1 MA's), (18, 32585), (24, 32477), (25, 32453),

Gene: ChamoyPickle\_53 Start: 33125, Stop: 32976, Start Num: 18

Candidate Starts for ChamoyPickle\_53:

(Start: 17 @33143 has 1 MA's), (18, 33125), (24, 33017), (25, 32993),

Gene: ChipsNGuac\_52 Start: 32585, Stop: 32436, Start Num: 18

Candidate Starts for ChipsNGuac\_52:

(Start: 17 @32603 has 1 MA's), (18, 32585), (24, 32477), (25, 32453),

Gene: Conley\_75 Start: 51077, Stop: 51193, Start Num: 20  
Candidate Starts for Conley\_75:  
(Start: 20 @51077 has 4 MA's), (25, 51182),

Gene: Ezurina\_51 Start: 33562, Stop: 33416, Start Num: 18  
Candidate Starts for Ezurina\_51:  
(Start: 17 @33580 has 1 MA's), (18, 33562), (25, 33430),

Gene: Gerri43\_52 Start: 32585, Stop: 32436, Start Num: 18  
Candidate Starts for Gerri43\_52:  
(Start: 17 @32603 has 1 MA's), (18, 32585), (24, 32477), (25, 32453),

Gene: Mysticmoon\_78 Start: 52079, Stop: 52201, Start Num: 20  
Candidate Starts for Mysticmoon\_78:  
(1, 51815), (2, 51833), (3, 51845), (6, 51872), (7, 51875), (8, 51881), (10, 51911), (11, 51920), (12, 51974), (13, 51986), (14, 51995), (16, 52040), (Start: 20 @52079 has 4 MA's), (24, 52166), (25, 52190),

Gene: Neuville\_51 Start: 32585, Stop: 32436, Start Num: 18  
Candidate Starts for Neuville\_51:  
(Start: 17 @32603 has 1 MA's), (18, 32585), (24, 32477), (25, 32453),

Gene: Petite\_79 Start: 52029, Stop: 52145, Start Num: 20  
Candidate Starts for Petite\_79:  
(Start: 20 @52029 has 4 MA's), (25, 52134),

Gene: Pherobrine\_77 Start: 52134, Stop: 52256, Start Num: 20  
Candidate Starts for Pherobrine\_77:  
(16, 52095), (Start: 20 @52134 has 4 MA's), (24, 52221), (25, 52245),

Gene: Poco6\_057 Start: 66807, Stop: 66938, Start Num: 19  
Candidate Starts for Poco6\_057:  
(15, 66732), (19, 66807), (22, 66870), (25, 66921),

Gene: Roberts\_51 Start: 32585, Stop: 32436, Start Num: 18  
Candidate Starts for Roberts\_51:  
(Start: 17 @32603 has 1 MA's), (18, 32585), (24, 32477), (25, 32453),

Gene: Secretariat\_75 Start: 50334, Stop: 50453, Start Num: 20  
Candidate Starts for Secretariat\_75:  
(Start: 20 @50334 has 4 MA's), (21, 50379), (25, 50442),

Gene: Studio\_54 Start: 33799, Stop: 33653, Start Num: 18  
Candidate Starts for Studio\_54:  
(4, 33994), (5, 33991), (9, 33964), (Start: 17 @33817 has 1 MA's), (18, 33799), (23, 33712), (25, 33667),