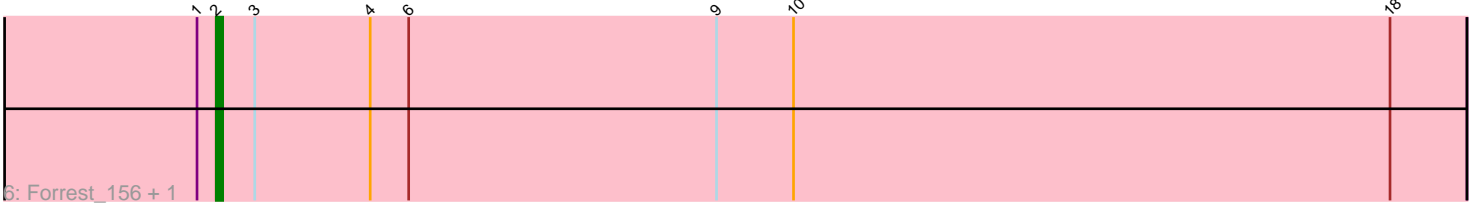
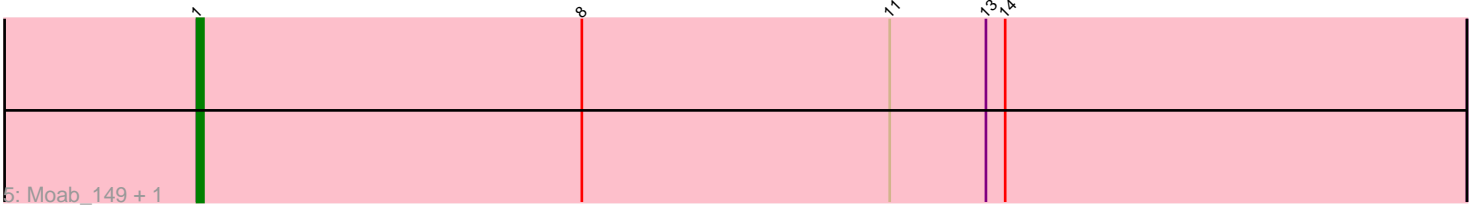
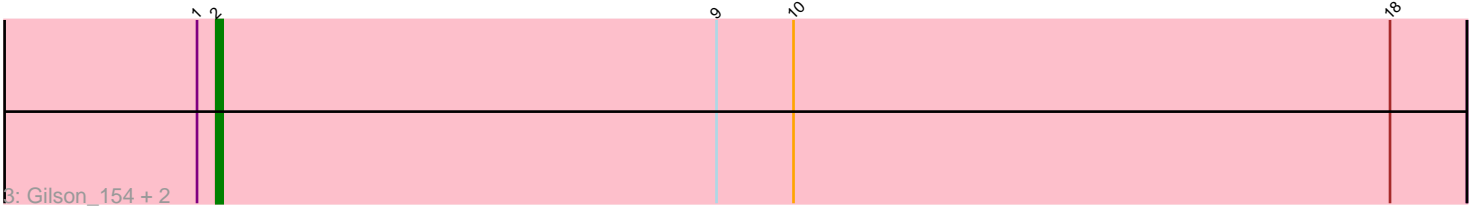
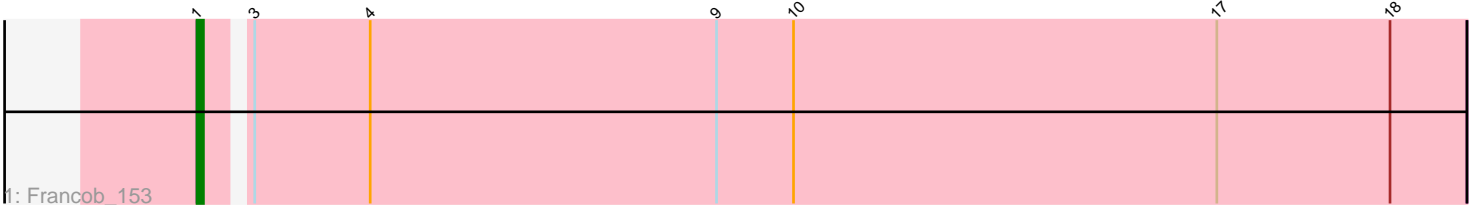


Pham 5358



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 5358 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5358 has 15 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Francob\_153
- Track 2 : SparkleGoddess\_149, Comrade\_147, Karp\_144, Stigma\_148, Belfort\_150
- Track 3 : Gilson\_154, Emma1919\_155, MeganTheeKilla\_151
- Track 4 : Phredrick\_154
- Track 5 : Moab\_149, Patelgo\_151
- Track 6 : Forrest\_156, Jada\_153
- Track 7 : Kenrey\_157

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

The start number called the most often in the published annotations is 2, it was called in 10 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_150, Comrade\_147, Emma1919\_155, Forrest\_156, Gilson\_154, Jada\_153, Karp\_144, MeganTheeKilla\_151, SparkleGoddess\_149, Stigma\_148,

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

- 

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

- Francob\_153, Kenrey\_157, Moab\_149, Patelgo\_151, Phredrick\_154,

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

Start 1:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 15
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Francob\_153 (BK1), Kenrey\_157 (BK1), Moab\_149 (BK1), Patelgo\_151 (BK1), Phredrick\_154 (BK1),

Start 2:

- Found in 10 of 15 ( 66.7% ) of genes in pham

- Manual Annotations of this start: 10 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_150 (BK1), Comrade\_147 (BK1), Emma1919\_155 (BK1), Forrest\_156 (BK1), Gilson\_154 (BK1), Jada\_153 (BK1), Karp\_144 (BK1), MeganTheeKilla\_151 (BK1), SparkleGoddess\_149 (BK1), Stigma\_148 (BK1),

### **Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 5 times for cluster BK1.
- Start number 2 was manually annotated 10 times for cluster BK1.

### **Gene Information:**

Gene: Belfort\_150 Start: 84803, Stop: 84994, Start Num: 2

Candidate Starts for Belfort\_150:

(Start: 1 @84800 has 5 MA's), (Start: 2 @84803 has 10 MA's), (15, 84938),

Gene: Comrade\_147 Start: 85002, Stop: 85193, Start Num: 2

Candidate Starts for Comrade\_147:

(Start: 1 @84999 has 5 MA's), (Start: 2 @85002 has 10 MA's), (15, 85137),

Gene: Emma1919\_155 Start: 84414, Stop: 84608, Start Num: 2

Candidate Starts for Emma1919\_155:

(Start: 1 @84411 has 5 MA's), (Start: 2 @84414 has 10 MA's), (9, 84492), (10, 84504), (18, 84597),

Gene: Forrest\_156 Start: 85508, Stop: 85702, Start Num: 2

Candidate Starts for Forrest\_156:

(Start: 1 @85505 has 5 MA's), (Start: 2 @85508 has 10 MA's), (3, 85514), (4, 85532), (6, 85538), (9, 85586), (10, 85598), (18, 85691),

Gene: Francob\_153 Start: 84932, Stop: 85126, Start Num: 1

Candidate Starts for Francob\_153:

(Start: 1 @84932 has 5 MA's), (3, 84938), (4, 84956), (9, 85010), (10, 85022), (17, 85088), (18, 85115),

Gene: Gilson\_154 Start: 84376, Stop: 84570, Start Num: 2

Candidate Starts for Gilson\_154:

(Start: 1 @84373 has 5 MA's), (Start: 2 @84376 has 10 MA's), (9, 84454), (10, 84466), (18, 84559),

Gene: Jada\_153 Start: 84205, Stop: 84399, Start Num: 2

Candidate Starts for Jada\_153:

(Start: 1 @84202 has 5 MA's), (Start: 2 @84205 has 10 MA's), (3, 84211), (4, 84229), (6, 84235), (9, 84283), (10, 84295), (18, 84388),

Gene: Karp\_144 Start: 84230, Stop: 84421, Start Num: 2

Candidate Starts for Karp\_144:

(Start: 1 @84227 has 5 MA's), (Start: 2 @84230 has 10 MA's), (15, 84365),

Gene: Kenrey\_157 Start: 85532, Stop: 85726, Start Num: 1

Candidate Starts for Kenrey\_157:

(Start: 1 @85532 has 5 MA's), (5, 85562), (7, 85577), (12, 85646), (15, 85670), (16, 85685),

Gene: MeganTheeKilla\_151 Start: 83727, Stop: 83921, Start Num: 2

Candidate Starts for MeganTheeKilla\_151:

(Start: 1 @83724 has 5 MA's), (Start: 2 @83727 has 10 MA's), (9, 83805), (10, 83817), (18, 83910),

Gene: Moab\_149 Start: 85890, Stop: 86087, Start Num: 1

Candidate Starts for Moab\_149:

(Start: 1 @85890 has 5 MA's), (8, 85950), (11, 85998), (13, 86013), (14, 86016),

Gene: Patelgo\_151 Start: 86582, Stop: 86779, Start Num: 1

Candidate Starts for Patelgo\_151:

(Start: 1 @86582 has 5 MA's), (8, 86642), (11, 86690), (13, 86705), (14, 86708),

Gene: Phredrick\_154 Start: 83876, Stop: 84070, Start Num: 1

Candidate Starts for Phredrick\_154:

(Start: 1 @83876 has 5 MA's), (5, 83906), (6, 83909), (7, 83921), (12, 83990), (15, 84014), (16, 84029),

Gene: SparkleGoddess\_149 Start: 85049, Stop: 85240, Start Num: 2

Candidate Starts for SparkleGoddess\_149:

(Start: 1 @85046 has 5 MA's), (Start: 2 @85049 has 10 MA's), (15, 85184),

Gene: Stigma\_148 Start: 85447, Stop: 85638, Start Num: 2

Candidate Starts for Stigma\_148:

(Start: 1 @85444 has 5 MA's), (Start: 2 @85447 has 10 MA's), (15, 85582),