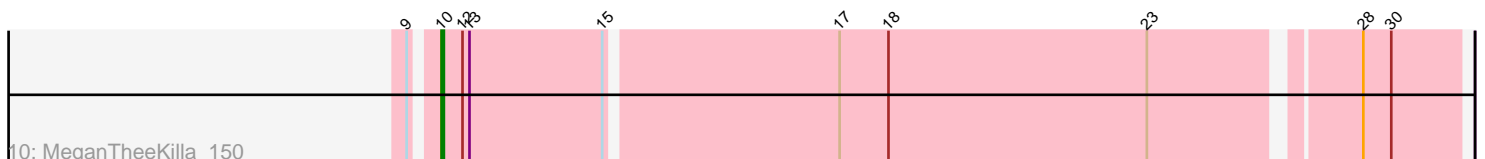
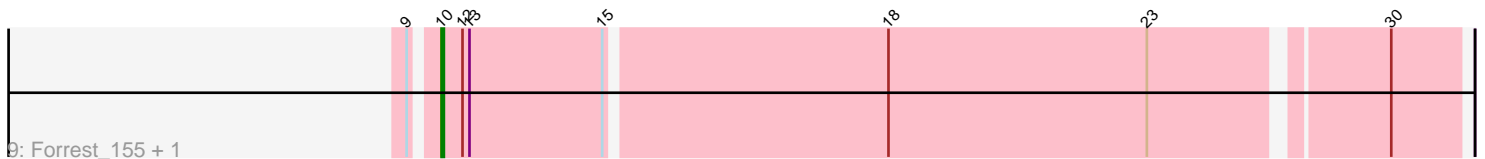
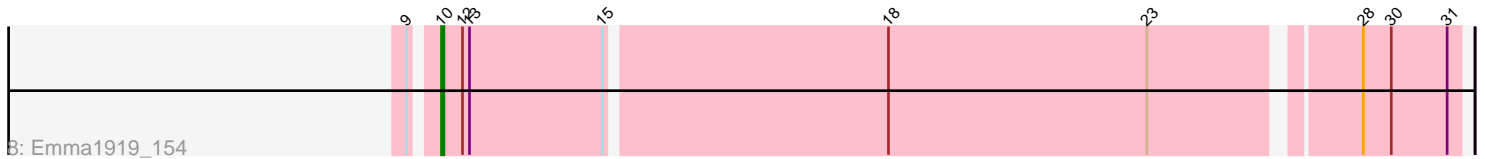
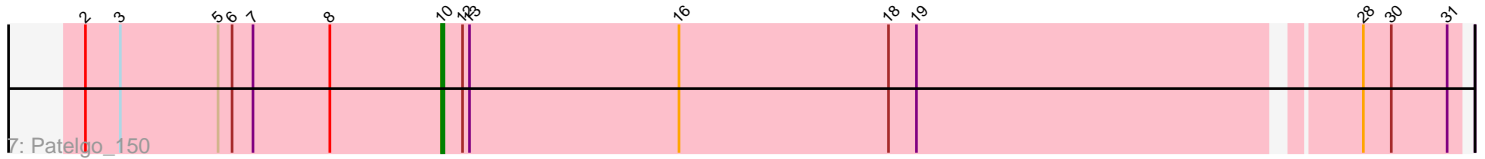
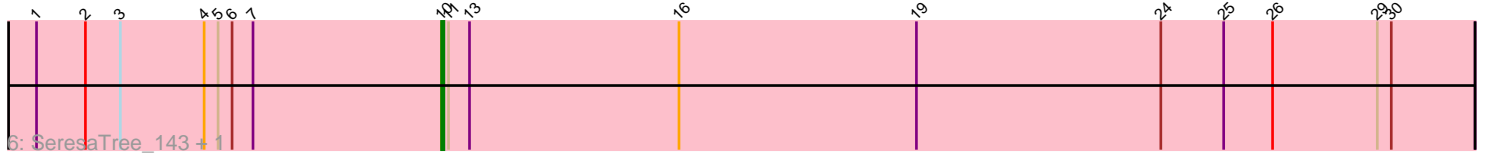
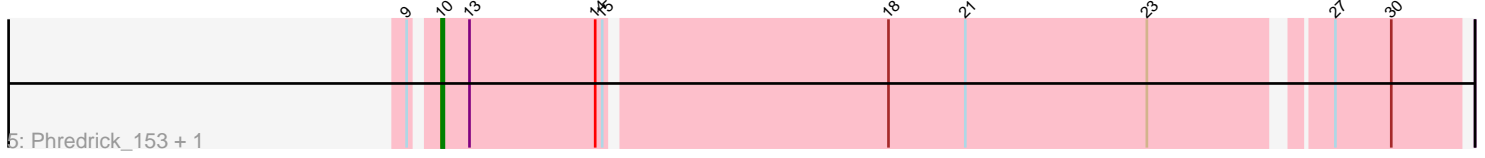
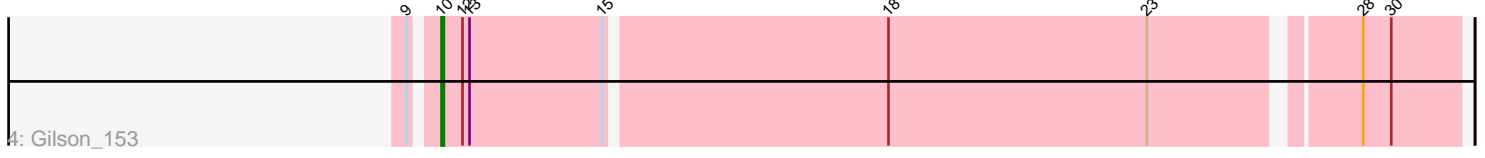
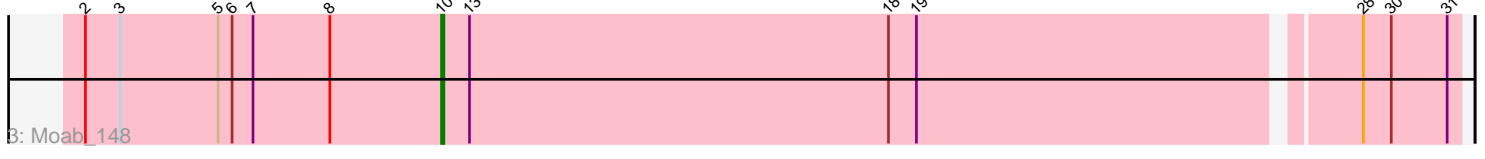
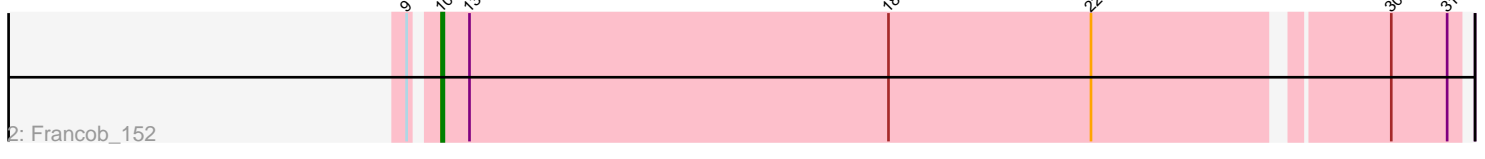
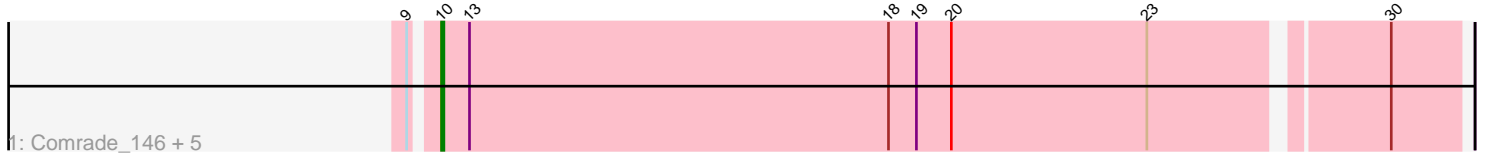


Pham 224941



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 224941 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224941 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Comrade\_146, SparkleGoddess\_148, Karp\_143, Westy\_150, Stigma\_147, Belfort\_149
- Track 2 : Francob\_152
- Track 3 : Moab\_148
- Track 4 : Gilson\_153
- Track 5 : Phredrick\_153, Kenrey\_156
- Track 6 : SeresaTree\_143, Faust\_142
- Track 7 : Patelgo\_150
- Track 8 : Emma1919\_154
- Track 9 : Forrest\_155, Jada\_152
- Track 10 : MeganTheeKilla\_150

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

The start number called the most often in the published annotations is 10, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_149, Comrade\_146, Emma1919\_154, Faust\_142, Forrest\_155, Francob\_152, Gilson\_153, Jada\_152, Karp\_143, Kenrey\_156, MeganTheeKilla\_150, Moab\_148, Patelgo\_150, Phredrick\_153, SeresaTree\_143, SparkleGoddess\_148, Stigma\_147, Westy\_150,

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

- 

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

- 

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

Start 10:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 16

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_149 (BK1), Comrade\_146 (BK1), Emma1919\_154 (BK1), Faust\_142 (BK1), Forrest\_155 (BK1), Francob\_152 (BK1), Gilson\_153 (BK1), Jada\_152 (BK1), Karp\_143 (BK1), Kenrey\_156 (BK1), MeganTheeKilla\_150 (BK1), Moab\_148 (BK1), Patelgo\_150 (BK1), Phredrick\_153 (BK1), SeresaTree\_143 (BK1), SparkleGoddess\_148 (BK1), Stigma\_147 (BK1), Westy\_150 (BK1),

### **Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 10 was manually annotated 16 times for cluster BK1.

### **Gene Information:**

Gene: Belfort\_149 Start: 84378, Stop: 84803, Start Num: 10

Candidate Starts for Belfort\_149:

(9, 84369), (Start: 10 @84378 has 16 MA's), (13, 84390), (18, 84570), (19, 84582), (20, 84597), (23, 84681), (30, 84774),

Gene: Comrade\_146 Start: 84577, Stop: 85002, Start Num: 10

Candidate Starts for Comrade\_146:

(9, 84568), (Start: 10 @84577 has 16 MA's), (13, 84589), (18, 84769), (19, 84781), (20, 84796), (23, 84880), (30, 84973),

Gene: Emma1919\_154 Start: 83995, Stop: 84414, Start Num: 10

Candidate Starts for Emma1919\_154:

(9, 83986), (Start: 10 @83995 has 16 MA's), (12, 84004), (13, 84007), (15, 84064), (18, 84181), (23, 84292), (28, 84373), (30, 84385), (31, 84409),

Gene: Faust\_142 Start: 83595, Stop: 84038, Start Num: 10

Candidate Starts for Faust\_142:

(1, 83421), (2, 83442), (3, 83457), (4, 83493), (5, 83499), (6, 83505), (7, 83514), (Start: 10 @83595 has 16 MA's), (11, 83598), (13, 83607), (16, 83697), (19, 83799), (24, 83904), (25, 83931), (26, 83952), (29, 83997), (30, 84003),

Gene: Forrest\_155 Start: 85089, Stop: 85508, Start Num: 10

Candidate Starts for Forrest\_155:

(9, 85080), (Start: 10 @85089 has 16 MA's), (12, 85098), (13, 85101), (15, 85158), (18, 85275), (23, 85386), (30, 85479),

Gene: Francob\_152 Start: 84510, Stop: 84935, Start Num: 10

Candidate Starts for Francob\_152:

(9, 84501), (Start: 10 @84510 has 16 MA's), (13, 84522), (18, 84702), (22, 84789), (30, 84906), (31, 84930),

Gene: Gilson\_153 Start: 83957, Stop: 84376, Start Num: 10

Candidate Starts for Gilson\_153:

(9, 83948), (Start: 10 @83957 has 16 MA's), (12, 83966), (13, 83969), (15, 84026), (18, 84143), (23, 84254), (28, 84335), (30, 84347),

Gene: Jada\_152 Start: 83786, Stop: 84205, Start Num: 10

Candidate Starts for Jada\_152:

(9, 83777), (Start: 10 @83786 has 16 MA's), (12, 83795), (13, 83798), (15, 83855), (18, 83972), (23, 84083), (30, 84176),

Gene: Karp\_143 Start: 83805, Stop: 84230, Start Num: 10

Candidate Starts for Karp\_143:

(9, 83796), (Start: 10 @83805 has 16 MA's), (13, 83817), (18, 83997), (19, 84009), (20, 84024), (23, 84108), (30, 84201),

Gene: Kenrey\_156 Start: 85116, Stop: 85535, Start Num: 10

Candidate Starts for Kenrey\_156:

(9, 85107), (Start: 10 @85116 has 16 MA's), (13, 85128), (14, 85182), (15, 85185), (18, 85302), (21, 85335), (23, 85413), (27, 85482), (30, 85506),

Gene: MeganTheeKilla\_150 Start: 83308, Stop: 83727, Start Num: 10

Candidate Starts for MeganTheeKilla\_150:

(9, 83299), (Start: 10 @83308 has 16 MA's), (12, 83317), (13, 83320), (15, 83377), (17, 83473), (18, 83494), (23, 83605), (28, 83686), (30, 83698),

Gene: Moab\_148 Start: 85468, Stop: 85893, Start Num: 10

Candidate Starts for Moab\_148:

(2, 85315), (3, 85330), (5, 85372), (6, 85378), (7, 85387), (8, 85420), (Start: 10 @85468 has 16 MA's), (13, 85480), (18, 85660), (19, 85672), (28, 85852), (30, 85864), (31, 85888),

Gene: Patelgo\_150 Start: 86160, Stop: 86585, Start Num: 10

Candidate Starts for Patelgo\_150:

(2, 86007), (3, 86022), (5, 86064), (6, 86070), (7, 86079), (8, 86112), (Start: 10 @86160 has 16 MA's), (12, 86169), (13, 86172), (16, 86262), (18, 86352), (19, 86364), (28, 86544), (30, 86556), (31, 86580),

Gene: Phredrick\_153 Start: 83460, Stop: 83879, Start Num: 10

Candidate Starts for Phredrick\_153:

(9, 83451), (Start: 10 @83460 has 16 MA's), (13, 83472), (14, 83526), (15, 83529), (18, 83646), (21, 83679), (23, 83757), (27, 83826), (30, 83850),

Gene: SeresaTree\_143 Start: 82977, Stop: 83420, Start Num: 10

Candidate Starts for SeresaTree\_143:

(1, 82803), (2, 82824), (3, 82839), (4, 82875), (5, 82881), (6, 82887), (7, 82896), (Start: 10 @82977 has 16 MA's), (11, 82980), (13, 82989), (16, 83079), (19, 83181), (24, 83286), (25, 83313), (26, 83334), (29, 83379), (30, 83385),

Gene: SparkleGoddess\_148 Start: 84624, Stop: 85049, Start Num: 10

Candidate Starts for SparkleGoddess\_148:

(9, 84615), (Start: 10 @84624 has 16 MA's), (13, 84636), (18, 84816), (19, 84828), (20, 84843), (23, 84927), (30, 85020),

Gene: Stigma\_147 Start: 85022, Stop: 85447, Start Num: 10

Candidate Starts for Stigma\_147:

(9, 85013), (Start: 10 @85022 has 16 MA's), (13, 85034), (18, 85214), (19, 85226), (20, 85241), (23, 85325), (30, 85418),

Gene: Westy\_150 Start: 85337, Stop: 85762, Start Num: 10

Candidate Starts for Westy\_150:

(9, 85328), (Start: 10 @85337 has 16 MA's), (13, 85349), (18, 85529), (19, 85541), (20, 85556), (23, 85640), (30, 85733),