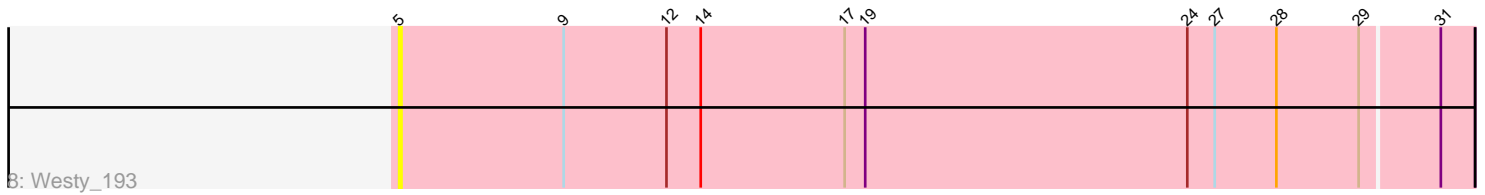
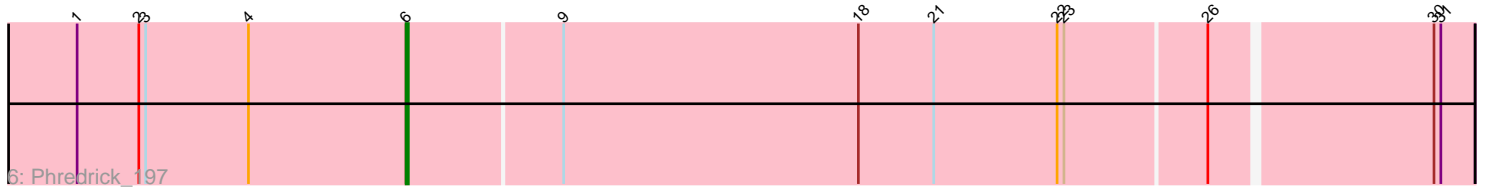
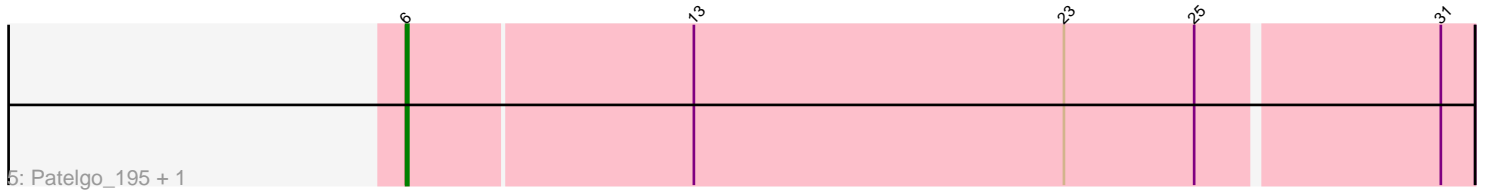
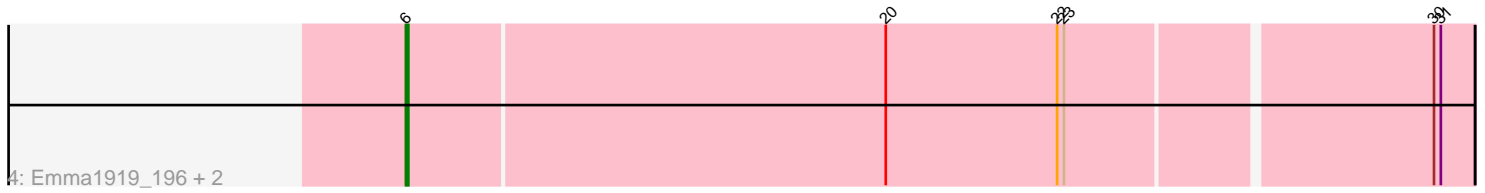
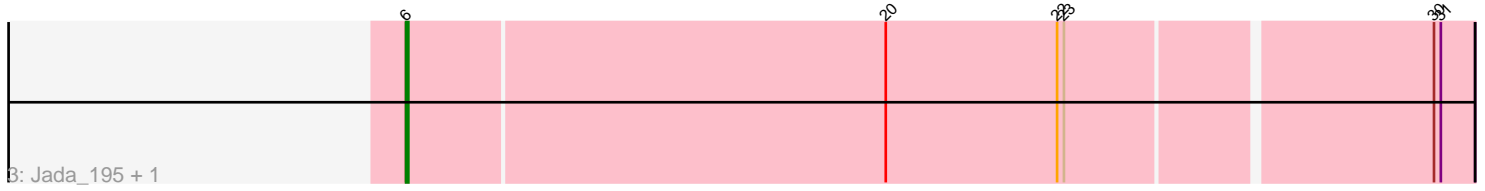
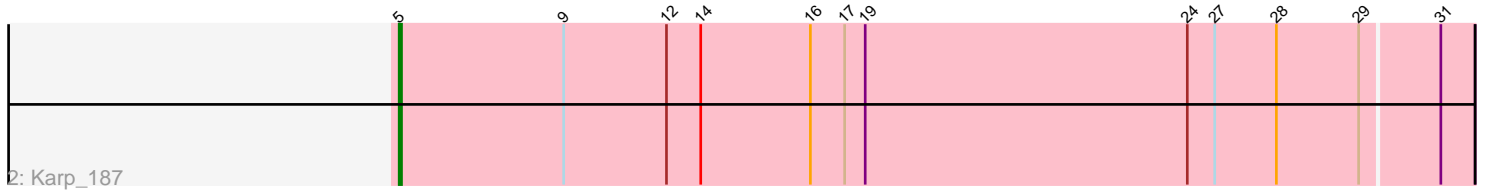
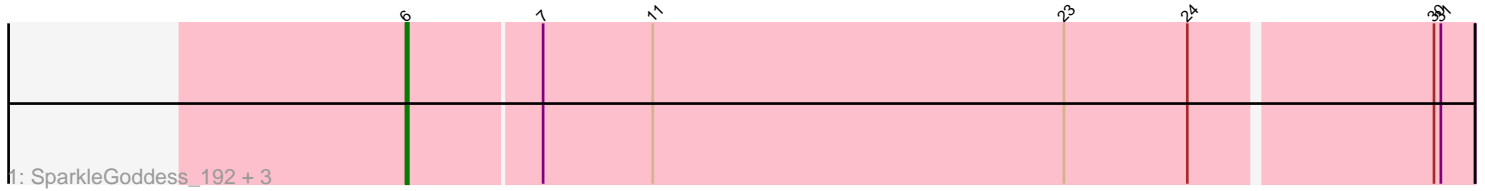


# Pham 211475



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 211475 Report

This analysis was run 02/22/25 on database version 588.

Pham number 211475 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : SparkleGoddess\_192, Belfort\_192, Stigma\_190, Comrade\_189
- Track 2 : Karp\_187
- Track 3 : Jada\_195, Forrest\_197
- Track 4 : Emma1919\_196, Gilson\_195, MeganTheeKilla\_195
- Track 5 : Patelgo\_195, Moab\_193
- Track 6 : Phredrick\_197
- Track 7 : Francob\_193
- Track 8 : Westy\_193

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

The start number called the most often in the published annotations is 6, it was called in 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_192, Comrade\_189, Emma1919\_196, Forrest\_197, Francob\_193, Gilson\_195, Jada\_195, MeganTheeKilla\_195, Moab\_193, Patelgo\_195, Phredrick\_197, SparkleGoddess\_192, Stigma\_190,

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

- 

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

- Karp\_187, Westy\_193,

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

Start 5:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Karp\_187 (BK1), Westy\_193 (BK1),

Start 6:

- Found in 13 of 15 ( 86.7% ) of genes in pham
- Manual Annotations of this start: 13 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_192 (BK1), Comrade\_189 (BK1), Emma1919\_196 (BK1), Forrest\_197 (BK1), Francob\_193 (BK1), Gilson\_195 (BK1), Jada\_195 (BK1), MeganTheeKilla\_195 (BK1), Moab\_193 (BK1), Patelgo\_195 (BK1), Phredrick\_197 (BK1), SparkleGoddess\_192 (BK1), Stigma\_190 (BK1),

### **Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 5 was manually annotated 1 time for cluster BK1.
- Start number 6 was manually annotated 13 times for cluster BK1.

### **Gene Information:**

Gene: Belfort\_192 Start: 98921, Stop: 99379, Start Num: 6

Candidate Starts for Belfort\_192:

(Start: 6 @98921 has 13 MA's), (7, 98978), (11, 99026), (23, 99206), (24, 99260), (30, 99362), (31, 99365),

Gene: Comrade\_189 Start: 99122, Stop: 99580, Start Num: 6

Candidate Starts for Comrade\_189:

(Start: 6 @99122 has 13 MA's), (7, 99179), (11, 99227), (23, 99407), (24, 99461), (30, 99563), (31, 99566),

Gene: Emma1919\_196 Start: 97758, Stop: 98213, Start Num: 6

Candidate Starts for Emma1919\_196:

(Start: 6 @97758 has 13 MA's), (20, 97965), (22, 98040), (23, 98043), (30, 98196), (31, 98199),

Gene: Forrest\_197 Start: 99152, Stop: 99607, Start Num: 6

Candidate Starts for Forrest\_197:

(Start: 6 @99152 has 13 MA's), (20, 99359), (22, 99434), (23, 99437), (30, 99590), (31, 99593),

Gene: Francob\_193 Start: 97846, Stop: 98301, Start Num: 6

Candidate Starts for Francob\_193:

(2, 97729), (3, 97732), (4, 97777), (Start: 6 @97846 has 13 MA's), (8, 97906), (10, 97927), (15, 97990), (18, 98041), (20, 98053), (23, 98131), (30, 98284), (31, 98287),

Gene: Gilson\_195 Start: 97720, Stop: 98175, Start Num: 6

Candidate Starts for Gilson\_195:

(Start: 6 @97720 has 13 MA's), (20, 97927), (22, 98002), (23, 98005), (30, 98158), (31, 98161),

Gene: Jada\_195 Start: 98024, Stop: 98479, Start Num: 6

Candidate Starts for Jada\_195:

(Start: 6 @98024 has 13 MA's), (20, 98231), (22, 98306), (23, 98309), (30, 98462), (31, 98465),

Gene: Karp\_187 Start: 98777, Stop: 99244, Start Num: 5

Candidate Starts for Karp\_187:

(Start: 5 @98777 has 1 MA's), (9, 98849), (12, 98894), (14, 98909), (16, 98957), (17, 98972), (19, 98981), (24, 99122), (27, 99134), (28, 99161), (29, 99197), (31, 99230),

Gene: MeganTheeKilla\_195 Start: 97792, Stop: 98247, Start Num: 6

Candidate Starts for MeganTheeKilla\_195:

(Start: 6 @97792 has 13 MA's), (20, 97999), (22, 98074), (23, 98077), (30, 98230), (31, 98233),

Gene: Moab\_193 Start: 100358, Stop: 100816, Start Num: 6

Candidate Starts for Moab\_193:

(Start: 6 @100358 has 13 MA's), (13, 100481), (23, 100643), (25, 100700), (31, 100802),

Gene: Patelgo\_195 Start: 100999, Stop: 101457, Start Num: 6

Candidate Starts for Patelgo\_195:

(Start: 6 @100999 has 13 MA's), (13, 101122), (23, 101284), (25, 101341), (31, 101443),

Gene: Phredrick\_197 Start: 97569, Stop: 98024, Start Num: 6

Candidate Starts for Phredrick\_197:

(1, 97425), (2, 97452), (3, 97455), (4, 97500), (Start: 6 @97569 has 13 MA's), (9, 97635), (18, 97764), (21, 97797), (22, 97851), (23, 97854), (26, 97914), (30, 98007), (31, 98010),

Gene: SparkleGoddess\_192 Start: 99330, Stop: 99788, Start Num: 6

Candidate Starts for SparkleGoddess\_192:

(Start: 6 @99330 has 13 MA's), (7, 99387), (11, 99435), (23, 99615), (24, 99669), (30, 99771), (31, 99774),

Gene: Stigma\_190 Start: 99568, Stop: 100026, Start Num: 6

Candidate Starts for Stigma\_190:

(Start: 6 @99568 has 13 MA's), (7, 99625), (11, 99673), (23, 99853), (24, 99907), (30, 100009), (31, 100012),

Gene: Westy\_193 Start: 99832, Stop: 100299, Start Num: 5

Candidate Starts for Westy\_193:

(Start: 5 @99832 has 1 MA's), (9, 99904), (12, 99949), (14, 99964), (17, 100027), (19, 100036), (24, 100177), (27, 100189), (28, 100216), (29, 100252), (31, 100285),