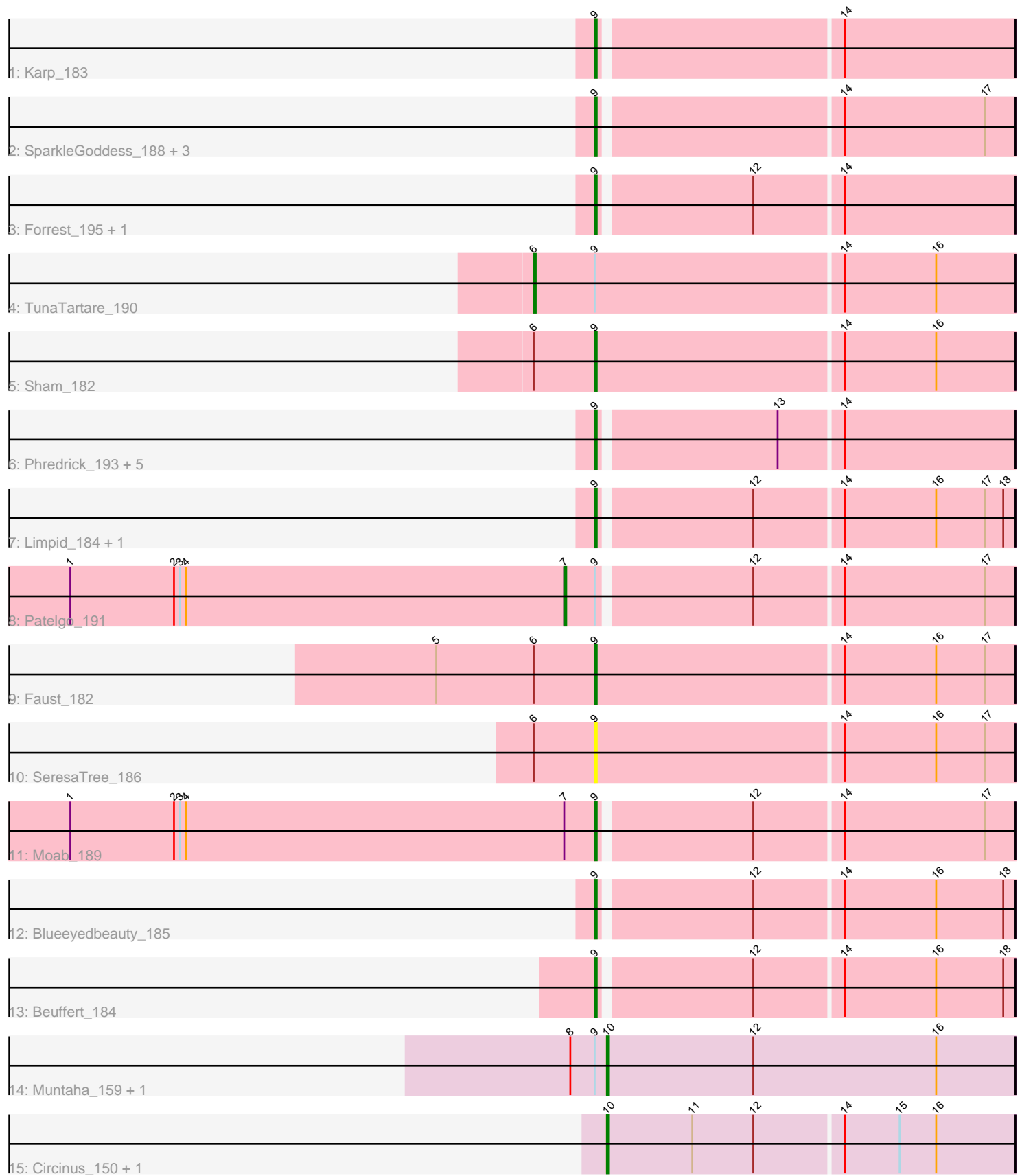


# Pham 3240



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 3240 Report

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

Pham number 3240 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Karp\_183
- Track 2 : SparkleGoddess\_188, Comrade\_185, Stigma\_186, Belfort\_188
- Track 3 : Forrest\_195, Francob\_189
- Track 4 : TunaTartare\_190
- Track 5 : Sham\_182
- Track 6 : Phredrick\_193, MeganTheeKilla\_191, Gilson\_191, Jada\_193, Emma1919\_192, Kenrey\_195
- Track 7 : Limpid\_184, Annadreamy\_177
- Track 8 : Patelgo\_191
- Track 9 : Faust\_182
- Track 10 : SeresaTree\_186
- Track 11 : Moab\_189
- Track 12 : Blueeyedbeauty\_185
- Track 13 : Beuffert\_184
- Track 14 : Muntaha\_159, Wakanda\_157
- Track 15 : Circinus\_150, BillNye\_149

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

The start number called the most often in the published annotations is 9, it was called in 20 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_177, Belfort\_188, Beuffert\_184, Blueeyedbeauty\_185, Comrade\_185, Emma1919\_192, Faust\_182, Forrest\_195, Francob\_189, Gilson\_191, Jada\_193, Karp\_183, Kenrey\_195, Limpid\_184, MeganTheeKilla\_191, Moab\_189, Phredrick\_193, SeresaTree\_186, Sham\_182, SparkleGoddess\_188, Stigma\_186,

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

- Muntaha\_159, Patelgo\_191, TunaTartare\_190, Wakanda\_157,

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

- BillNye\_149, Circinus\_150,

## Summary by start number:

### Start 6:

- Found in 4 of 27 ( 14.8% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 25.0% of time when present
- Phage (with cluster) where this start called: TunaTartare\_190 (BK1),

### Start 7:

- Found in 2 of 27 ( 7.4% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Patelgo\_191 (BK1),

### Start 9:

- Found in 25 of 27 ( 92.6% ) of genes in pham
- Manual Annotations of this start: 20 of 26
- Called 84.0% of time when present
- Phage (with cluster) where this start called: Annadreamy\_177 (BK1), Belfort\_188 (BK1), Beuffert\_184 (BK1), Blueeyedbeauty\_185 (BK1), Comrade\_185 (BK1), Emma1919\_192 (BK1), Faust\_182 (BK1), Forrest\_195 (BK1), Francob\_189 (BK1), Gilson\_191 (BK1), Jada\_193 (BK1), Karp\_183 (BK1), Kenrey\_195 (BK1), Limpid\_184 (BK1), MeganTheeKilla\_191 (BK1), Moab\_189 (BK1), Phredrick\_193 (BK1), SeresaTree\_186 (BK1), Sham\_182 (BK1), SparkleGoddess\_188 (BK1), Stigma\_186 (BK1),

### Start 10:

- Found in 4 of 27 ( 14.8% ) of genes in pham
- Manual Annotations of this start: 4 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye\_149 (BK2), Circinus\_150 (BK2), Muntaha\_159 (BK2), Wakanda\_157 (BK2),

## Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

### Info for manual annotations of cluster BK1:

- Start number 6 was manually annotated 1 time for cluster BK1.
- Start number 7 was manually annotated 1 time for cluster BK1.
- Start number 9 was manually annotated 20 times for cluster BK1.

### Info for manual annotations of cluster BK2:

- Start number 10 was manually annotated 4 times for cluster BK2.

## Gene Information:

Gene: Annadreamy\_177 Start: 92409, Stop: 92606, Start Num: 9

Candidate Starts for Annadreamy\_177:

(Start: 9 @92409 has 20 MA's), (12, 92481), (14, 92523), (16, 92568), (17, 92592), (18, 92601),

Gene: Belfort\_188 Start: 98080, Stop: 98277, Start Num: 9

Candidate Starts for Belfort\_188:

(Start: 9 @98080 has 20 MA's), (14, 98194), (17, 98263),

Gene: Beuffert\_184 Start: 97174, Stop: 97371, Start Num: 9

Candidate Starts for Beuffert\_184:

(Start: 9 @97174 has 20 MA's), (12, 97246), (14, 97288), (16, 97333), (18, 97366),

Gene: BillNye\_149 Start: 87698, Stop: 87895, Start Num: 10

Candidate Starts for BillNye\_149:

(Start: 10 @87698 has 4 MA's), (11, 87740), (12, 87770), (14, 87812), (15, 87839), (16, 87857),

Gene: Blueeyedbeauty\_185 Start: 96166, Stop: 96363, Start Num: 9

Candidate Starts for Blueeyedbeauty\_185:

(Start: 9 @96166 has 20 MA's), (12, 96238), (14, 96280), (16, 96325), (18, 96358),

Gene: Circinus\_150 Start: 87664, Stop: 87861, Start Num: 10

Candidate Starts for Circinus\_150:

(Start: 10 @87664 has 4 MA's), (11, 87706), (12, 87736), (14, 87778), (15, 87805), (16, 87823),

Gene: Comrade\_185 Start: 98281, Stop: 98478, Start Num: 9

Candidate Starts for Comrade\_185:

(Start: 9 @98281 has 20 MA's), (14, 98395), (17, 98464),

Gene: Emma1919\_192 Start: 96920, Stop: 97117, Start Num: 9

Candidate Starts for Emma1919\_192:

(Start: 9 @96920 has 20 MA's), (13, 97004), (14, 97034),

Gene: Faust\_182 Start: 97718, Stop: 97921, Start Num: 9

Candidate Starts for Faust\_182:

(5, 97640), (Start: 6 @97688 has 1 MA's), (Start: 9 @97718 has 20 MA's), (14, 97838), (16, 97883), (17, 97907),

Gene: Forrest\_195 Start: 98817, Stop: 99014, Start Num: 9

Candidate Starts for Forrest\_195:

(Start: 9 @98817 has 20 MA's), (12, 98889), (14, 98931),

Gene: Francob\_189 Start: 97014, Stop: 97211, Start Num: 9

Candidate Starts for Francob\_189:

(Start: 9 @97014 has 20 MA's), (12, 97086), (14, 97128),

Gene: Gilson\_191 Start: 96882, Stop: 97079, Start Num: 9

Candidate Starts for Gilson\_191:

(Start: 9 @96882 has 20 MA's), (13, 96966), (14, 96996),

Gene: Jada\_193 Start: 97688, Stop: 97885, Start Num: 9

Candidate Starts for Jada\_193:

(Start: 9 @97688 has 20 MA's), (13, 97772), (14, 97802),

Gene: Karp\_183 Start: 97956, Stop: 98153, Start Num: 9

Candidate Starts for Karp\_183:

(Start: 9 @97956 has 20 MA's), (14, 98070),

Gene: Kenrey\_195 Start: 98106, Stop: 98303, Start Num: 9

Candidate Starts for Kenrey\_195:

(Start: 9 @98106 has 20 MA's), (13, 98190), (14, 98220),

Gene: Limpid\_184 Start: 97722, Stop: 97919, Start Num: 9

Candidate Starts for Limpid\_184:

(Start: 9 @97722 has 20 MA's), (12, 97794), (14, 97836), (16, 97881), (17, 97905), (18, 97914),

Gene: MeganTheeKilla\_191 Start: 96954, Stop: 97151, Start Num: 9

Candidate Starts for MeganTheeKilla\_191:

(Start: 9 @96954 has 20 MA's), (13, 97038), (14, 97068),

Gene: Moab\_189 Start: 99546, Stop: 99743, Start Num: 9

Candidate Starts for Moab\_189:

(1, 99288), (2, 99339), (3, 99342), (4, 99345), (Start: 7 @99531 has 1 MA's), (Start: 9 @99546 has 20 MA's), (12, 99618), (14, 99660), (17, 99729),

Gene: Muntaha\_159 Start: 86983, Stop: 87183, Start Num: 10

Candidate Starts for Muntaha\_159:

(8, 86965), (Start: 9 @86977 has 20 MA's), (Start: 10 @86983 has 4 MA's), (12, 87055), (16, 87145),

Gene: Patelgo\_191 Start: 100172, Stop: 100384, Start Num: 7

Candidate Starts for Patelgo\_191:

(1, 99929), (2, 99980), (3, 99983), (4, 99986), (Start: 7 @100172 has 1 MA's), (Start: 9 @100187 has 20 MA's), (12, 100259), (14, 100301), (17, 100370),

Gene: Phredrick\_193 Start: 96738, Stop: 96935, Start Num: 9

Candidate Starts for Phredrick\_193:

(Start: 9 @96738 has 20 MA's), (13, 96822), (14, 96852),

Gene: SeresaTree\_186 Start: 97703, Stop: 97906, Start Num: 9

Candidate Starts for SeresaTree\_186:

(Start: 6 @97673 has 1 MA's), (Start: 9 @97703 has 20 MA's), (14, 97823), (16, 97868), (17, 97892),

Gene: Sham\_182 Start: 99062, Stop: 99265, Start Num: 9

Candidate Starts for Sham\_182:

(Start: 6 @99032 has 1 MA's), (Start: 9 @99062 has 20 MA's), (14, 99182), (16, 99227),

Gene: SparkleGoddess\_188 Start: 98489, Stop: 98686, Start Num: 9

Candidate Starts for SparkleGoddess\_188:

(Start: 9 @98489 has 20 MA's), (14, 98603), (17, 98672),

Gene: Stigma\_186 Start: 98727, Stop: 98924, Start Num: 9

Candidate Starts for Stigma\_186:

(Start: 9 @98727 has 20 MA's), (14, 98841), (17, 98910),

Gene: TunaTartare\_190 Start: 101081, Stop: 101314, Start Num: 6

Candidate Starts for TunaTartare\_190:

(Start: 6 @101081 has 1 MA's), (Start: 9 @101111 has 20 MA's), (14, 101231), (16, 101276),

Gene: Wakanda\_157 Start: 86661, Stop: 86861, Start Num: 10

Candidate Starts for Wakanda\_157:

(8, 86643), (Start: 9 @86655 has 20 MA's), (Start: 10 @86661 has 4 MA's), (12, 86733), (16, 86823),

