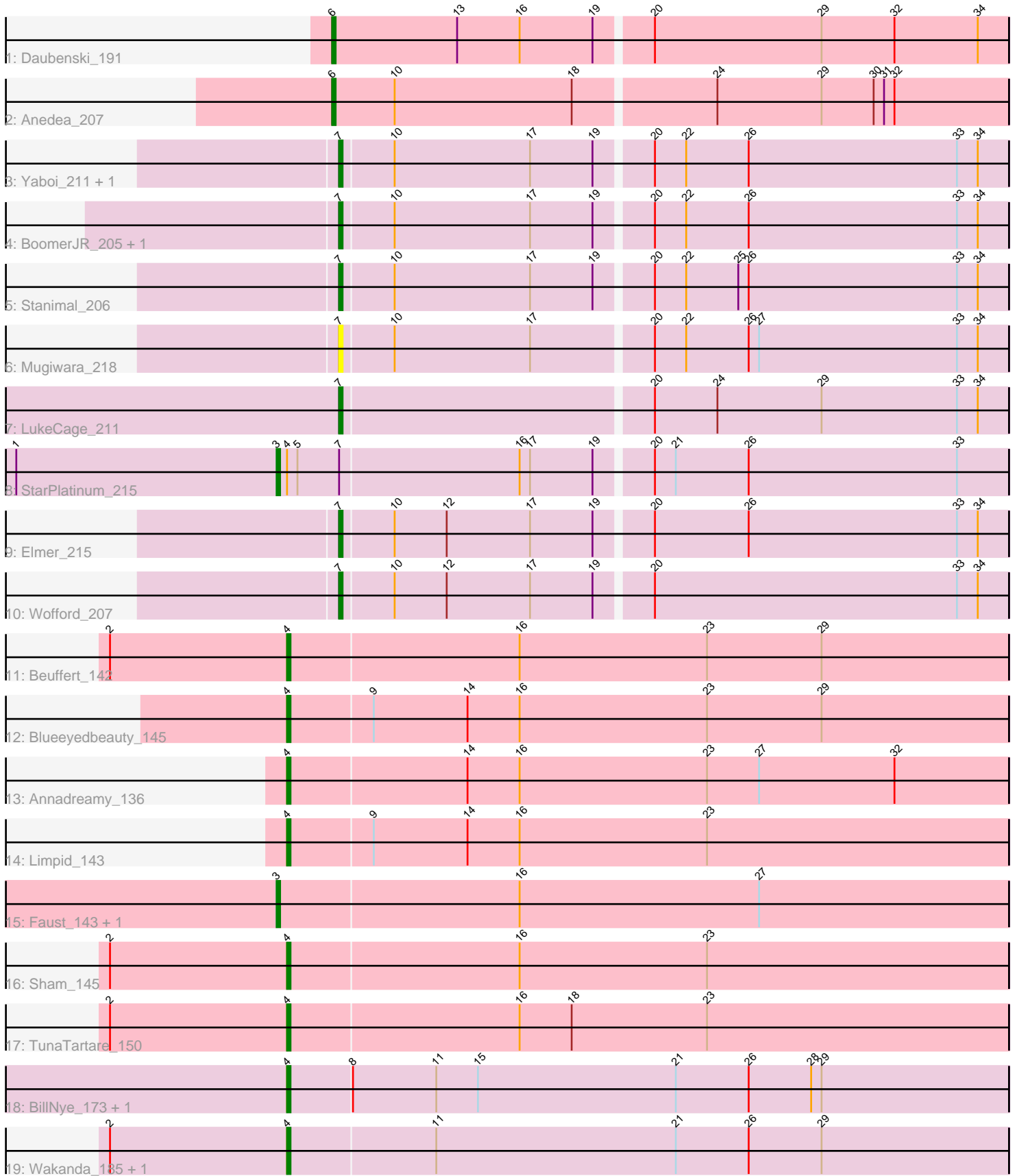


# Pham 194300



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 194300 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194300 has 24 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Daubenski\_191
- Track 2 : Anedea\_207
- Track 3 : Yaboi\_211, Genie2\_205
- Track 4 : BoomerJR\_205, Sollertia\_207
- Track 5 : Stanimal\_206
- Track 6 : Mugiwara\_218
- Track 7 : LukeCage\_211
- Track 8 : StarPlatinum\_215
- Track 9 : Elmer\_215
- Track 10 : Wofford\_207
- Track 11 : Beuffert\_142
- Track 12 : Blueeyedbeauty\_145
- Track 13 : Annadreamy\_136
- Track 14 : Limpid\_143
- Track 15 : Faust\_143, SeresaTree\_144
- Track 16 : Sham\_145
- Track 17 : TunaTartare\_150
- Track 18 : BillNye\_173, Circinus\_174
- Track 19 : Wakanda\_185, Muntaha\_186

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_136, Beuffert\_142, BillNye\_173, Blueeyedbeauty\_145, Circinus\_174, Limpid\_143, Muntaha\_186, Sham\_145, TunaTartare\_150, Wakanda\_185,

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

- StarPlatinum\_215,

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

- Anedea\_207, BoomerJR\_205, Daubenski\_191, Elmer\_215, Faust\_143, Genie2\_205, LukeCage\_211, Mugiwara\_218, SeresaTree\_144, Sollertia\_207, Stanimal\_206, Wofford\_207, Yaboi\_211,

### Summary by start number:

#### Start 3:

- Found in 3 of 24 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faust\_143 (BK1), SeresaTree\_144 (BK1), StarPlatinum\_215 (BE2),

#### Start 4:

- Found in 11 of 24 ( 45.8% ) of genes in pham
- Manual Annotations of this start: 10 of 22
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Annadreamy\_136 (BK1), Beuffert\_142 (BK1), BillNye\_173 (BK2), Blueeyedbeauty\_145 (BK1), Circinus\_174 (BK2), Limpid\_143 (BK1), Muntaha\_186 (BK2), Sham\_145 (BK1), TunaTartare\_150 (BK1), Wakanda\_185 (BK2),

#### Start 6:

- Found in 2 of 24 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea\_207 (BE1), Daubenski\_191 (BE1),

#### Start 7:

- Found in 10 of 24 ( 41.7% ) of genes in pham
- Manual Annotations of this start: 8 of 22
- Called 90.0% of time when present
- Phage (with cluster) where this start called: BoomerJR\_205 (BE2), Elmer\_215 (BE2), Genie2\_205 (BE2), LukeCage\_211 (BE2), Mugiwara\_218 (BE2), Sollertia\_207 (BE2), Stanimal\_206 (BE2), Wofford\_207 (BE2), Yaboi\_211 (BE2),

### Summary by clusters:

There are 4 clusters represented in this pham: BE2, BE1, BK1, BK2,

Info for manual annotations of cluster BE1:

- Start number 6 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 3 was manually annotated 1 time for cluster BE2.
- Start number 7 was manually annotated 8 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 3 was manually annotated 1 time for cluster BK1.
- Start number 4 was manually annotated 6 times for cluster BK1.

Info for manual annotations of cluster BK2:

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

**Gene Information:**

Gene: Anedea\_207 Start: 104074, Stop: 104265, Start Num: 6

Candidate Starts for Anedea\_207:

(Start: 6 @104074 has 2 MA's), (10, 104092), (18, 104143), (24, 104182), (29, 104212), (30, 104227), (31, 104230), (32, 104233),

Gene: Annadreamy\_136 Start: 78196, Stop: 78402, Start Num: 4

Candidate Starts for Annadreamy\_136:

(Start: 4 @78196 has 10 MA's), (14, 78247), (16, 78262), (23, 78316), (27, 78331), (32, 78370),

Gene: Beuffert\_142 Start: 82688, Stop: 82894, Start Num: 4

Candidate Starts for Beuffert\_142:

(2, 82637), (Start: 4 @82688 has 10 MA's), (16, 82754), (23, 82808), (29, 82841),

Gene: BillNye\_173 Start: 96744, Stop: 96950, Start Num: 4

Candidate Starts for BillNye\_173:

(Start: 4 @96744 has 10 MA's), (8, 96762), (11, 96786), (15, 96798), (21, 96855), (26, 96876), (28, 96894), (29, 96897),

Gene: Blueeyedbeauty\_145 Start: 82630, Stop: 82836, Start Num: 4

Candidate Starts for Blueeyedbeauty\_145:

(Start: 4 @82630 has 10 MA's), (9, 82654), (14, 82681), (16, 82696), (23, 82750), (29, 82783),

Gene: BoomerJR\_205 Start: 103938, Stop: 104126, Start Num: 7

Candidate Starts for BoomerJR\_205:

(Start: 7 @103938 has 8 MA's), (10, 103953), (17, 103992), (19, 104010), (20, 104025), (22, 104034), (26, 104052), (33, 104112), (34, 104118),

Gene: Circinus\_174 Start: 96709, Stop: 96915, Start Num: 4

Candidate Starts for Circinus\_174:

(Start: 4 @96709 has 10 MA's), (8, 96727), (11, 96751), (15, 96763), (21, 96820), (26, 96841), (28, 96859), (29, 96862),

Gene: Daubenski\_191 Start: 104330, Stop: 104521, Start Num: 6

Candidate Starts for Daubenski\_191:

(Start: 6 @104330 has 2 MA's), (13, 104366), (16, 104384), (19, 104405), (20, 104420), (29, 104468), (32, 104489), (34, 104513),

Gene: Elmer\_215 Start: 106928, Stop: 107116, Start Num: 7

Candidate Starts for Elmer\_215:

(Start: 7 @106928 has 8 MA's), (10, 106943), (12, 106958), (17, 106982), (19, 107000), (20, 107015), (26, 107042), (33, 107102), (34, 107108),

Gene: Faust\_143 Start: 84031, Stop: 84240, Start Num: 3

Candidate Starts for Faust\_143:

(Start: 3 @84031 has 2 MA's), (16, 84100), (27, 84169),

Gene: Genie2\_205 Start: 104052, Stop: 104240, Start Num: 7

Candidate Starts for Genie2\_205:

(Start: 7 @104052 has 8 MA's), (10, 104067), (17, 104106), (19, 104124), (20, 104139), (22, 104148), (26, 104166), (33, 104226), (34, 104232),

Gene: Limpid\_143 Start: 83501, Stop: 83707, Start Num: 4

Candidate Starts for Limpid\_143:

(Start: 4 @83501 has 10 MA's), (9, 83525), (14, 83552), (16, 83567), (23, 83621),

Gene: LukeCage\_211 Start: 105560, Stop: 105748, Start Num: 7

Candidate Starts for LukeCage\_211:

(Start: 7 @105560 has 8 MA's), (20, 105647), (24, 105665), (29, 105695), (33, 105734), (34, 105740),

Gene: Mugiwara\_218 Start: 106057, Stop: 106245, Start Num: 7

Candidate Starts for Mugiwara\_218:

(Start: 7 @106057 has 8 MA's), (10, 106072), (17, 106111), (20, 106144), (22, 106153), (26, 106171), (27, 106174), (33, 106231), (34, 106237),

Gene: Muntaha\_186 Start: 96100, Stop: 96306, Start Num: 4

Candidate Starts for Muntaha\_186:

(2, 96049), (Start: 4 @96100 has 10 MA's), (11, 96142), (21, 96211), (26, 96232), (29, 96253),

Gene: SeresaTree\_144 Start: 83413, Stop: 83622, Start Num: 3

Candidate Starts for SeresaTree\_144:

(Start: 3 @83413 has 2 MA's), (16, 83482), (27, 83551),

Gene: Sham\_145 Start: 85913, Stop: 86119, Start Num: 4

Candidate Starts for Sham\_145:

(2, 85862), (Start: 4 @85913 has 10 MA's), (16, 85979), (23, 86033),

Gene: Sollertia\_207 Start: 104052, Stop: 104240, Start Num: 7

Candidate Starts for Sollertia\_207:

(Start: 7 @104052 has 8 MA's), (10, 104067), (17, 104106), (19, 104124), (20, 104139), (22, 104148), (26, 104166), (33, 104226), (34, 104232),

Gene: Stanimal\_206 Start: 104413, Stop: 104601, Start Num: 7

Candidate Starts for Stanimal\_206:

(Start: 7 @104413 has 8 MA's), (10, 104428), (17, 104467), (19, 104485), (20, 104500), (22, 104509), (25, 104524), (26, 104527), (33, 104587), (34, 104593),

Gene: StarPlatinum\_215 Start: 106051, Stop: 106257, Start Num: 3

Candidate Starts for StarPlatinum\_215:

(1, 105976), (Start: 3 @106051 has 2 MA's), (Start: 4 @106054 has 10 MA's), (5, 106057), (Start: 7 @106069 has 8 MA's), (16, 106120), (17, 106123), (19, 106141), (20, 106156), (21, 106162), (26, 106183), (33, 106243),

Gene: TunaTartare\_150 Start: 87170, Stop: 87376, Start Num: 4

Candidate Starts for TunaTartare\_150:

(2, 87119), (Start: 4 @87170 has 10 MA's), (16, 87236), (18, 87251), (23, 87290),

Gene: Wakanda\_185 Start: 96161, Stop: 96367, Start Num: 4

Candidate Starts for Wakanda\_185:

(2, 96110), (Start: 4 @96161 has 10 MA's), (11, 96203), (21, 96272), (26, 96293), (29, 96314),

Gene: Wofford\_207 Start: 106796, Stop: 106984, Start Num: 7

Candidate Starts for Wofford\_207:

(Start: 7 @106796 has 8 MA's), (10, 106811), (12, 106826), (17, 106850), (19, 106868), (20, 106883), (33, 106970), (34, 106976),

Gene: Yaboi\_211 Start: 103987, Stop: 104175, Start Num: 7

Candidate Starts for Yaboi\_211:

(Start: 7 @103987 has 8 MA's), (10, 104002), (17, 104041), (19, 104059), (20, 104074), (22, 104083), (26, 104101), (33, 104161), (34, 104167),