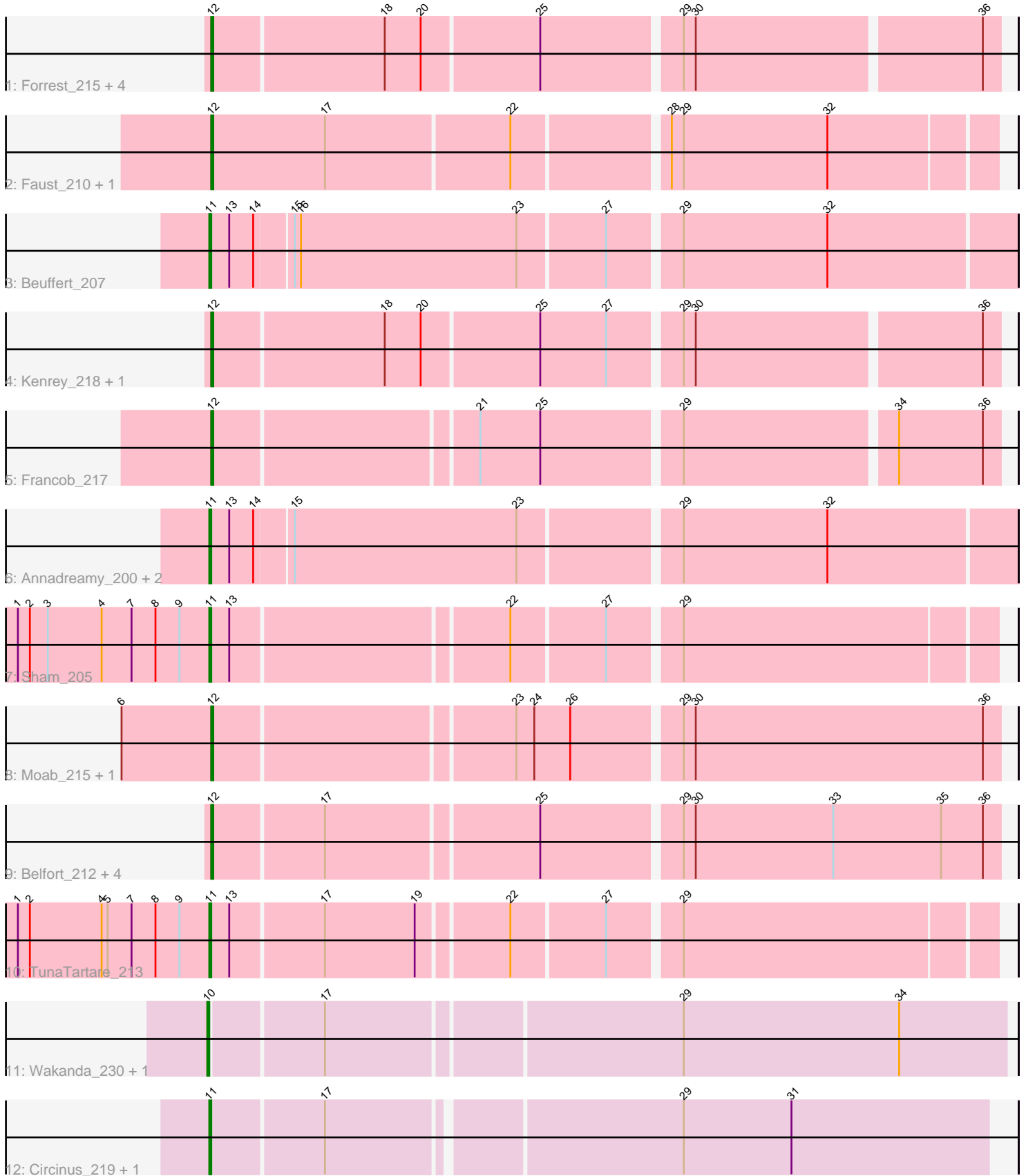


Pham 195736



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 195736 Report

This analysis was run 12/09/24 on database version 580.

Pham number 195736 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Forrest\_215, Emma1919\_215, MeganTheeKilla\_217, Gilson\_212, Jada\_214
- Track 2 : Faust\_210, SeresaTree\_214
- Track 3 : Beuffert\_207
- Track 4 : Kenrey\_218, Phredrick\_217
- Track 5 : Francob\_217
- Track 6 : Annadreamy\_200, Limpid\_207, Blueeyedbeauty\_209
- Track 7 : Sham\_205
- Track 8 : Moab\_215, Patelgo\_216
- Track 9 : Belfort\_212, Comrade\_209, SparkleGoddess\_212, Stigma\_211, Karp\_208
- Track 10 : TunaTartare\_213
- Track 11 : Wakanda\_230, Muntaha\_234
- Track 12 : Circinus\_219, BillNye\_219

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

The start number called the most often in the published annotations is 12, it was called in 16 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_212, Comrade\_209, Emma1919\_215, Faust\_210, Forrest\_215, Francob\_217, Gilson\_212, Jada\_214, Karp\_208, Kenrey\_218, MeganTheeKilla\_217, Moab\_215, Patelgo\_216, Phredrick\_217, SeresaTree\_214, SparkleGoddess\_212, Stigma\_211,

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

- 

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

- Annadreamy\_200, Beuffert\_207, BillNye\_219, Blueeyedbeauty\_209, Circinus\_219, Limpid\_207, Muntaha\_234, Sham\_205, TunaTartare\_213, Wakanda\_230,

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

Start 10:

- Found in 2 of 27 ( 7.4% ) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Muntaha\_234 (BK2), Wakanda\_230 (BK2),

Start 11:

- Found in 8 of 27 ( 29.6% ) of genes in pham
- Manual Annotations of this start: 8 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy\_200 (BK1), Beuffert\_207 (BK1), BillNye\_219 (BK2), Blueeyedbeauty\_209 (BK1), Circinus\_219 (BK2), Limpid\_207 (BK1), Sham\_205 (BK1), TunaTartare\_213 (BK1),

Start 12:

- Found in 17 of 27 ( 63.0% ) of genes in pham
- Manual Annotations of this start: 16 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_212 (BK1), Comrade\_209 (BK1), Emma1919\_215 (BK1), Faust\_210 (BK1), Forrest\_215 (BK1), Francob\_217 (BK1), Gilson\_212 (BK1), Jada\_214 (BK1), Karp\_208 (BK1), Kenrey\_218 (BK1), MeganTheeKilla\_217 (BK1), Moab\_215 (BK1), Patelgo\_216 (BK1), Phredrick\_217 (BK1), SeresaTree\_214 (BK1), SparkleGoddess\_212 (BK1), Stigma\_211 (BK1),

**Summary by clusters:**

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

Info for manual annotations of cluster BK1:

- Start number 11 was manually annotated 6 times for cluster BK1.
- Start number 12 was manually annotated 16 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 10 was manually annotated 2 times for cluster BK2.
- Start number 11 was manually annotated 2 times for cluster BK2.

**Gene Information:**

Gene: Annadreamy\_200 Start: 101109, Stop: 101498, Start Num: 11

Candidate Starts for Annadreamy\_200:

(Start: 11 @101109 has 8 MA's), (13, 101118), (14, 101130), (15, 101148), (23, 101259), (29, 101334), (32, 101406),

Gene: Belfort\_212 Start: 105684, Stop: 106064, Start Num: 12

Candidate Starts for Belfort\_212:

(Start: 12 @105684 has 16 MA's), (17, 105738), (25, 105840), (29, 105906), (30, 105912), (33, 105981), (35, 106035), (36, 106056),

Gene: Beuffert\_207 Start: 105102, Stop: 105491, Start Num: 11

Candidate Starts for Beuffert\_207:

(Start: 11 @105102 has 8 MA's), (13, 105111), (14, 105123), (15, 105141), (16, 105144), (23, 105252), (27, 105294), (29, 105327), (32, 105399),

Gene: BillNye\_219 Start: 112845, Stop: 113219, Start Num: 11

Candidate Starts for BillNye\_219:

(Start: 11 @112845 has 8 MA's), (17, 112899), (29, 113067), (31, 113121),

Gene: Blueeyedbeauty\_209 Start: 104836, Stop: 105225, Start Num: 11

Candidate Starts for Blueeyedbeauty\_209:

(Start: 11 @104836 has 8 MA's), (13, 104845), (14, 104857), (15, 104875), (23, 104986), (29, 105061), (32, 105133),

Gene: Circinus\_219 Start: 112435, Stop: 112809, Start Num: 11

Candidate Starts for Circinus\_219:

(Start: 11 @112435 has 8 MA's), (17, 112489), (29, 112657), (31, 112711),

Gene: Comrade\_209 Start: 105884, Stop: 106264, Start Num: 12

Candidate Starts for Comrade\_209:

(Start: 12 @105884 has 16 MA's), (17, 105938), (25, 106040), (29, 106106), (30, 106112), (33, 106181), (35, 106235), (36, 106256),

Gene: Emma1919\_215 Start: 104463, Stop: 104840, Start Num: 12

Candidate Starts for Emma1919\_215:

(Start: 12 @104463 has 16 MA's), (18, 104547), (20, 104565), (25, 104622), (29, 104688), (30, 104694), (36, 104832),

Gene: Faust\_210 Start: 106519, Stop: 106896, Start Num: 12

Candidate Starts for Faust\_210:

(Start: 12 @106519 has 16 MA's), (17, 106576), (22, 106666), (28, 106738), (29, 106744), (32, 106816),

Gene: Forrest\_215 Start: 105429, Stop: 105806, Start Num: 12

Candidate Starts for Forrest\_215:

(Start: 12 @105429 has 16 MA's), (18, 105513), (20, 105531), (25, 105588), (29, 105654), (30, 105660), (36, 105798),

Gene: Francob\_217 Start: 105473, Stop: 105847, Start Num: 12

Candidate Starts for Francob\_217:

(Start: 12 @105473 has 16 MA's), (21, 105599), (25, 105629), (29, 105695), (34, 105797), (36, 105839),

Gene: Gilson\_212 Start: 103986, Stop: 104363, Start Num: 12

Candidate Starts for Gilson\_212:

(Start: 12 @103986 has 16 MA's), (18, 104070), (20, 104088), (25, 104145), (29, 104211), (30, 104217), (36, 104355),

Gene: Jada\_214 Start: 104662, Stop: 105039, Start Num: 12

Candidate Starts for Jada\_214:

(Start: 12 @104662 has 16 MA's), (18, 104746), (20, 104764), (25, 104821), (29, 104887), (30, 104893), (36, 105031),

Gene: Karp\_208 Start: 106051, Stop: 106431, Start Num: 12

Candidate Starts for Karp\_208:

(Start: 12 @106051 has 16 MA's), (17, 106105), (25, 106207), (29, 106273), (30, 106279), (33, 106348), (35, 106402), (36, 106423),

Gene: Kenrey\_218 Start: 105206, Stop: 105583, Start Num: 12

Candidate Starts for Kenrey\_218:

(Start: 12 @105206 has 16 MA's), (18, 105290), (20, 105308), (25, 105365), (27, 105398), (29, 105431), (30, 105437), (36, 105575),

Gene: Limpid\_207 Start: 106422, Stop: 106811, Start Num: 11

Candidate Starts for Limpid\_207:

(Start: 11 @106422 has 8 MA's), (13, 106431), (14, 106443), (15, 106461), (23, 106572), (29, 106647), (32, 106719),

Gene: MeganTheeKilla\_217 Start: 104860, Stop: 105237, Start Num: 12

Candidate Starts for MeganTheeKilla\_217:

(Start: 12 @104860 has 16 MA's), (18, 104944), (20, 104962), (25, 105019), (29, 105085), (30, 105091), (36, 105229),

Gene: Moab\_215 Start: 107338, Stop: 107718, Start Num: 12

Candidate Starts for Moab\_215:

(6, 107296), (Start: 12 @107338 has 16 MA's), (23, 107482), (24, 107491), (26, 107509), (29, 107560), (30, 107566), (36, 107710),

Gene: Muntaha\_234 Start: 113002, Stop: 113388, Start Num: 10

Candidate Starts for Muntaha\_234:

(Start: 10 @113002 has 2 MA's), (17, 113056), (29, 113227), (34, 113335),

Gene: Patelgo\_216 Start: 107768, Stop: 108148, Start Num: 12

Candidate Starts for Patelgo\_216:

(6, 107726), (Start: 12 @107768 has 16 MA's), (23, 107912), (24, 107921), (26, 107939), (29, 107990), (30, 107996), (36, 108140),

Gene: Phredrick\_217 Start: 104259, Stop: 104636, Start Num: 12

Candidate Starts for Phredrick\_217:

(Start: 12 @104259 has 16 MA's), (18, 104343), (20, 104361), (25, 104418), (27, 104451), (29, 104484), (30, 104490), (36, 104628),

Gene: SeresaTree\_214 Start: 106504, Stop: 106881, Start Num: 12

Candidate Starts for SeresaTree\_214:

(Start: 12 @106504 has 16 MA's), (17, 106561), (22, 106651), (28, 106723), (29, 106729), (32, 106801),

Gene: Sham\_205 Start: 107377, Stop: 107748, Start Num: 11

Candidate Starts for Sham\_205:

(1, 107281), (2, 107287), (3, 107296), (4, 107323), (7, 107338), (8, 107350), (9, 107362), (Start: 11 @107377 has 8 MA's), (13, 107386), (22, 107518), (27, 107563), (29, 107596),

Gene: SparkleGoddess\_212 Start: 106112, Stop: 106492, Start Num: 12

Candidate Starts for SparkleGoddess\_212:

(Start: 12 @106112 has 16 MA's), (17, 106166), (25, 106268), (29, 106334), (30, 106340), (33, 106409), (35, 106463), (36, 106484),

Gene: Stigma\_211 Start: 106318, Stop: 106698, Start Num: 12

Candidate Starts for Stigma\_211:

(Start: 12 @106318 has 16 MA's), (17, 106372), (25, 106474), (29, 106540), (30, 106546), (33, 106615), (35, 106669), (36, 106690),

Gene: TunaTartare\_213 Start: 109675, Stop: 110046, Start Num: 11

Candidate Starts for TunaTartare\_213:

(1, 109579), (2, 109585), (4, 109621), (5, 109624), (7, 109636), (8, 109648), (9, 109660), (Start: 11 @109675 has 8 MA's), (13, 109684), (17, 109729), (19, 109774), (22, 109816), (27, 109861), (29, 109894),

Gene: Wakanda\_230 Start: 111989, Stop: 112375, Start Num: 10

Candidate Starts for Wakanda\_230:

(Start: 10 @111989 has 2 MA's), (17, 112043), (29, 112214), (34, 112322),