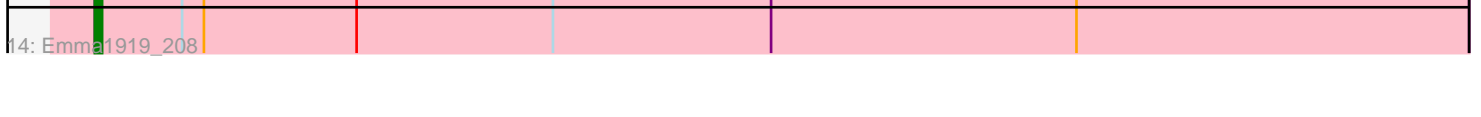
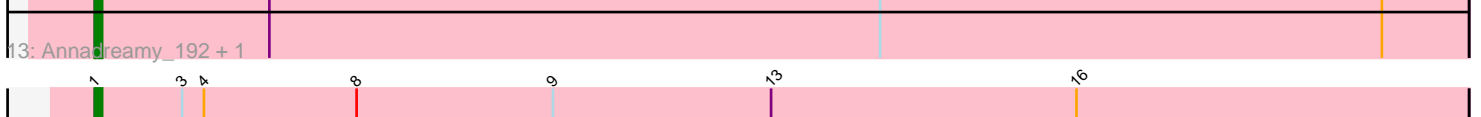
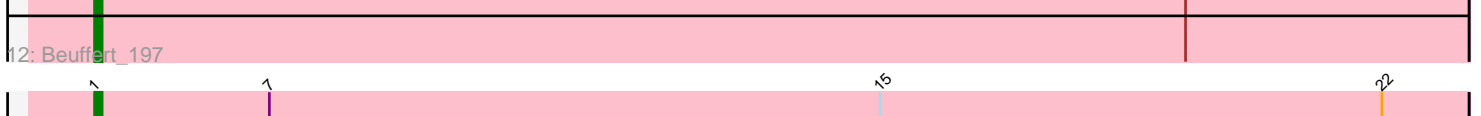
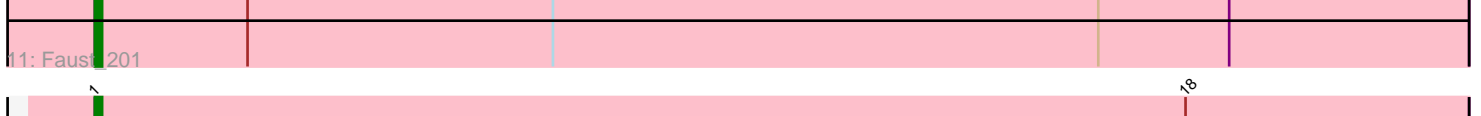
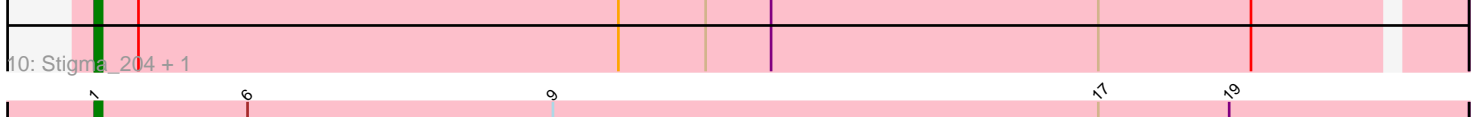
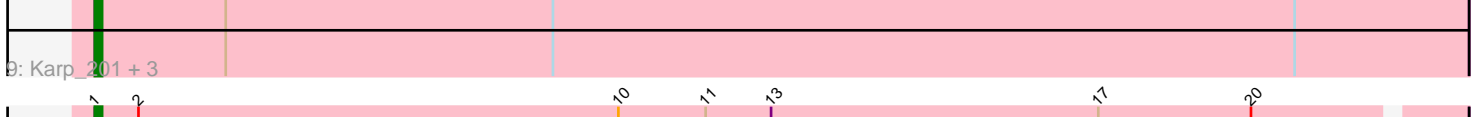
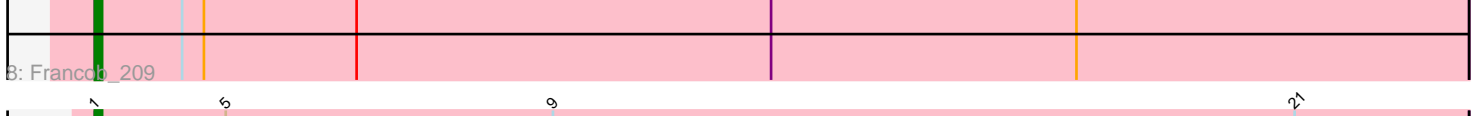
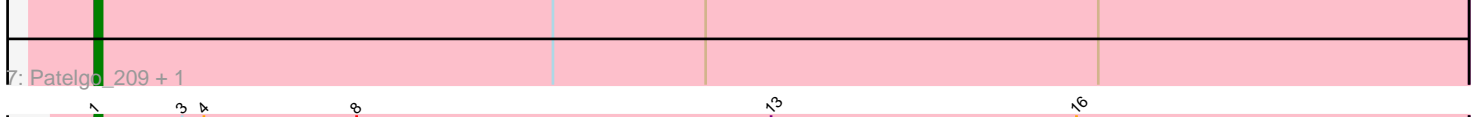
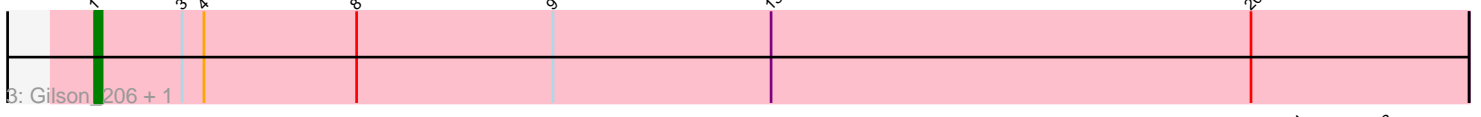
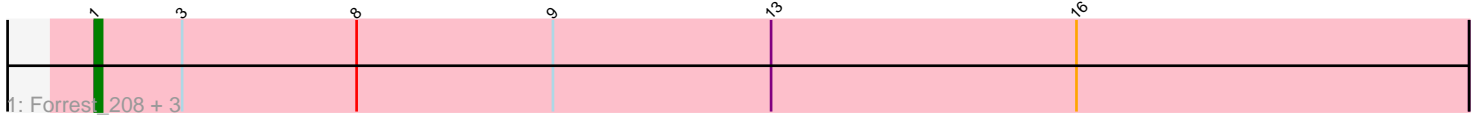


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309135 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309135 has 25 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Forrest\_208, DeluluLabubu\_210, MeganTheeKilla\_209, Jada\_208
- Track 2 : TunaTartare\_207
- Track 3 : Gilson\_206, Maupel\_209
- Track 4 : Kenrey\_211, Phredrick\_210
- Track 5 : Blueeyedbeauty\_200
- Track 6 : Sham\_197
- Track 7 : Patelgo\_209, Moab\_207
- Track 8 : Francob\_209
- Track 9 : Karp\_201, Westy\_209, Belfort\_205, Comrade\_202
- Track 10 : Stigma\_204, SparkleGoddess\_205
- Track 11 : Faust\_201
- Track 12 : Beuffert\_197
- Track 13 : Annadreamy\_192, Limpid\_199
- Track 14 : Emma1919\_208

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

The start number called the most often in the published annotations is 1, it was called in 24 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_192, Belfort\_205, Beuffert\_197, Blueeyedbeauty\_200, Comrade\_202, DeluluLabubu\_210, Emma1919\_208, Faust\_201, Forrest\_208, Francob\_209, Gilson\_206, Jada\_208, Karp\_201, Kenrey\_211, Limpid\_199, Maupel\_209, MeganTheeKilla\_209, Moab\_207, Patelgo\_209, Phredrick\_210, Sham\_197, SparkleGoddess\_205, Stigma\_204, TunaTartare\_207, Westy\_209,

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 1:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 24 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy\_192 (BK1), Belfort\_205 (BK1), Beuffert\_197 (BK1), Blueeyedbeauty\_200 (BK1), Comrade\_202 (BK1), DeluluLabubu\_210 (BK1), Emma1919\_208 (BK1), Faust\_201 (BK1), Forrest\_208 (BK1), Francob\_209 (BK1), Gilson\_206 (BK1), Jada\_208 (BK1), Karp\_201 (BK1), Kenrey\_211 (BK1), Limpid\_199 (BK1), Maupel\_209 (BK1), MeganTheeKilla\_209 (BK1), Moab\_207 (BK1), Patelgo\_209 (BK1), Phredrick\_210 (BK1), Sham\_197 (BK1), SparkleGoddess\_205 (BK1), Stigma\_204 (BK1), TunaTartare\_207 (BK1), Westy\_209 (BK1),

**Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 24 times for cluster BK1.

**Gene Information:**

Gene: Annadreamy\_192 Start: 97360, Stop: 97548, Start Num: 1

Candidate Starts for Annadreamy\_192:

(Start: 1 @97360 has 24 MA's), (7, 97384), (15, 97468), (22, 97537),

Gene: Belfort\_205 Start: 103490, Stop: 103678, Start Num: 1

Candidate Starts for Belfort\_205:

(Start: 1 @103490 has 24 MA's), (5, 103508), (9, 103553), (21, 103655),

Gene: Beuffert\_197 Start: 101592, Stop: 101780, Start Num: 1

Candidate Starts for Beuffert\_197:

(Start: 1 @101592 has 24 MA's), (18, 101742),

Gene: Blueeyedbeauty\_200 Start: 100888, Stop: 101076, Start Num: 1

Candidate Starts for Blueeyedbeauty\_200:

(Start: 1 @100888 has 24 MA's), (7, 100912), (13, 100981), (14, 100990), (15, 100996), (22, 101065),

Gene: Comrade\_202 Start: 103691, Stop: 103879, Start Num: 1

Candidate Starts for Comrade\_202:

(Start: 1 @103691 has 24 MA's), (5, 103709), (9, 103754), (21, 103856),

Gene: DeluluLabubu\_210 Start: 103711, Stop: 103899, Start Num: 1

Candidate Starts for DeluluLabubu\_210:

(Start: 1 @103711 has 24 MA's), (3, 103723), (8, 103747), (9, 103774), (13, 103804), (16, 103846),

Gene: Emma1919\_208 Start: 102236, Stop: 102424, Start Num: 1

Candidate Starts for Emma1919\_208:

(Start: 1 @102236 has 24 MA's), (3, 102248), (4, 102251), (8, 102272), (9, 102299), (13, 102329), (16, 102371),

Gene: Faust\_201 Start: 103076, Stop: 103264, Start Num: 1

Candidate Starts for Faust\_201:

(Start: 1 @103076 has 24 MA's), (6, 103097), (9, 103139), (17, 103214), (19, 103232),

Gene: Forrest\_208 Start: 103202, Stop: 103390, Start Num: 1

Candidate Starts for Forrest\_208:

(Start: 1 @103202 has 24 MA's), (3, 103214), (8, 103238), (9, 103265), (13, 103295), (16, 103337),

Gene: Francob\_209 Start: 102985, Stop: 103173, Start Num: 1

Candidate Starts for Francob\_209:

(Start: 1 @102985 has 24 MA's), (3, 102997), (4, 103000), (8, 103021), (13, 103078), (16, 103120),

Gene: Gilson\_206 Start: 102198, Stop: 102386, Start Num: 1

Candidate Starts for Gilson\_206:

(Start: 1 @102198 has 24 MA's), (3, 102210), (4, 102213), (8, 102234), (9, 102261), (13, 102291), (20, 102357),

Gene: Jada\_208 Start: 102874, Stop: 103062, Start Num: 1

Candidate Starts for Jada\_208:

(Start: 1 @102874 has 24 MA's), (3, 102886), (8, 102910), (9, 102937), (13, 102967), (16, 103009),

Gene: Karp\_201 Start: 103857, Stop: 104045, Start Num: 1

Candidate Starts for Karp\_201:

(Start: 1 @103857 has 24 MA's), (5, 103875), (9, 103920), (21, 104022),

Gene: Kenrey\_211 Start: 103246, Stop: 103434, Start Num: 1

Candidate Starts for Kenrey\_211:

(Start: 1 @103246 has 24 MA's), (9, 103309), (21, 103411), (22, 103423),

Gene: Limpid\_199 Start: 102673, Stop: 102861, Start Num: 1

Candidate Starts for Limpid\_199:

(Start: 1 @102673 has 24 MA's), (7, 102697), (15, 102781), (22, 102850),

Gene: Maupel\_209 Start: 102198, Stop: 102386, Start Num: 1

Candidate Starts for Maupel\_209:

(Start: 1 @102198 has 24 MA's), (3, 102210), (4, 102213), (8, 102234), (9, 102261), (13, 102291), (20, 102357),

Gene: MeganTheeKilla\_209 Start: 102459, Stop: 102647, Start Num: 1

Candidate Starts for MeganTheeKilla\_209:

(Start: 1 @102459 has 24 MA's), (3, 102471), (8, 102495), (9, 102522), (13, 102552), (16, 102594),

Gene: Moab\_207 Start: 105032, Stop: 105220, Start Num: 1

Candidate Starts for Moab\_207:

(Start: 1 @105032 has 24 MA's), (9, 105095), (11, 105116), (17, 105170),

Gene: Patelgo\_209 Start: 105673, Stop: 105861, Start Num: 1

Candidate Starts for Patelgo\_209:

(Start: 1 @105673 has 24 MA's), (9, 105736), (11, 105757), (17, 105811),

Gene: Phredrick\_210 Start: 102028, Stop: 102216, Start Num: 1

Candidate Starts for Phredrick\_210:

(Start: 1 @102028 has 24 MA's), (9, 102091), (21, 102193), (22, 102205),

Gene: Sham\_197 Start: 104012, Stop: 104200, Start Num: 1

Candidate Starts for Sham\_197:

(Start: 1 @104012 has 24 MA's), (4, 104027), (9, 104075), (12, 104102), (17, 104150),

Gene: SparkleGoddess\_205 Start: 103890, Stop: 104075, Start Num: 1

Candidate Starts for SparkleGoddess\_205:

(Start: 1 @103890 has 24 MA's), (2, 103896), (10, 103962), (11, 103974), (13, 103983), (17, 104028), (20, 104049),

Gene: Stigma\_204 Start: 104128, Stop: 104313, Start Num: 1

Candidate Starts for Stigma\_204:

(Start: 1 @104128 has 24 MA's), (2, 104134), (10, 104200), (11, 104212), (13, 104221), (17, 104266), (20, 104287),

Gene: TunaTartare\_207 Start: 107062, Stop: 107250, Start Num: 1

Candidate Starts for TunaTartare\_207:

(Start: 1 @107062 has 24 MA's), (5, 107080), (8, 107098), (9, 107125), (12, 107152), (17, 107200),

Gene: Westy\_209 Start: 104911, Stop: 105099, Start Num: 1

Candidate Starts for Westy\_209:

(Start: 1 @104911 has 24 MA's), (5, 104929), (9, 104974), (21, 105076),