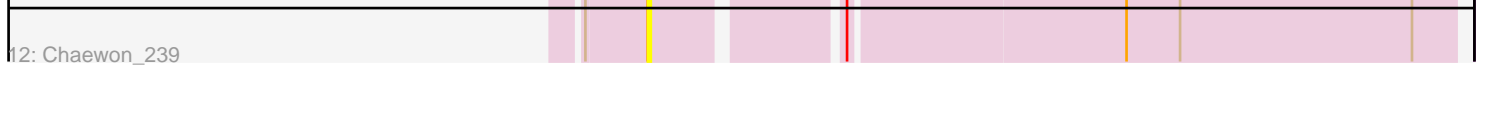
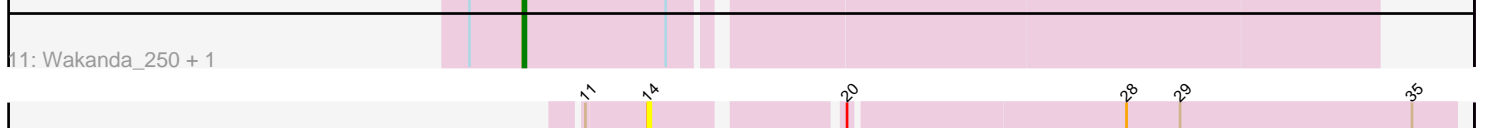
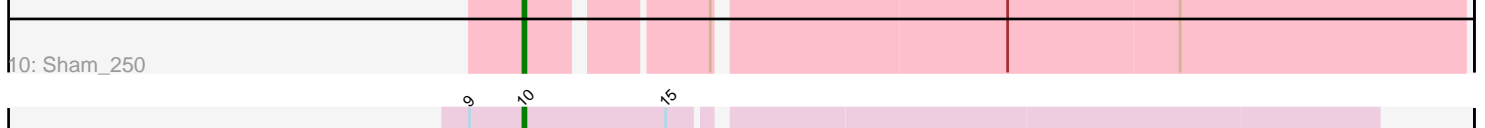
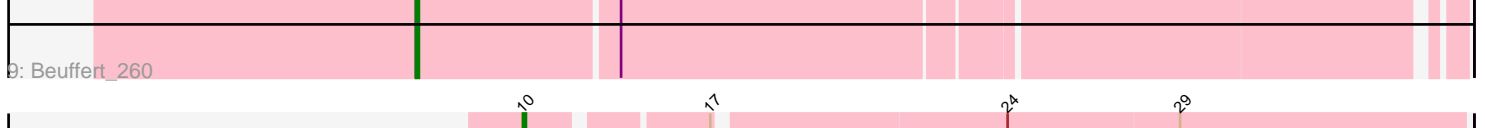
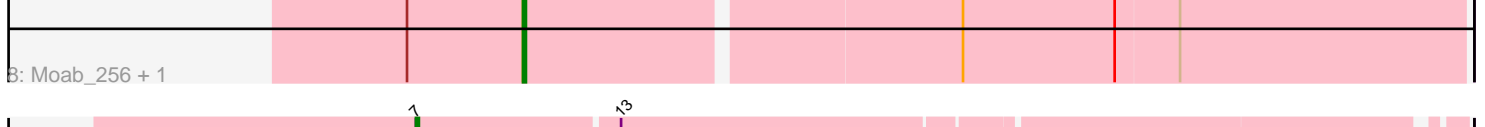
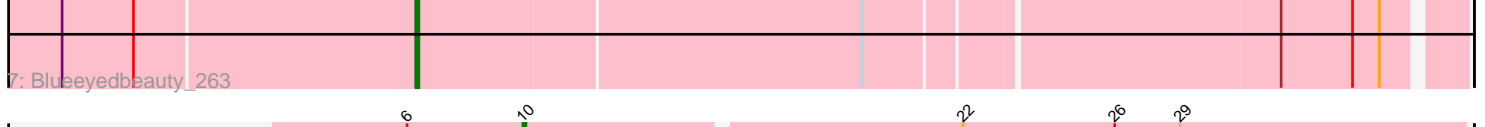
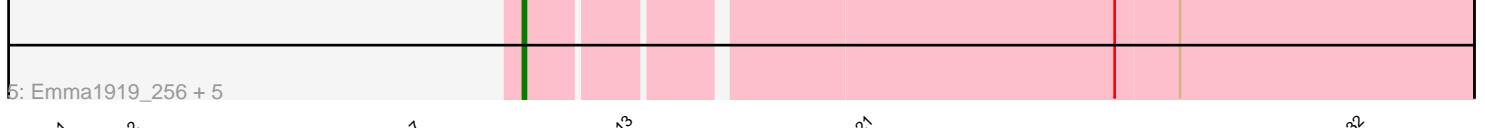
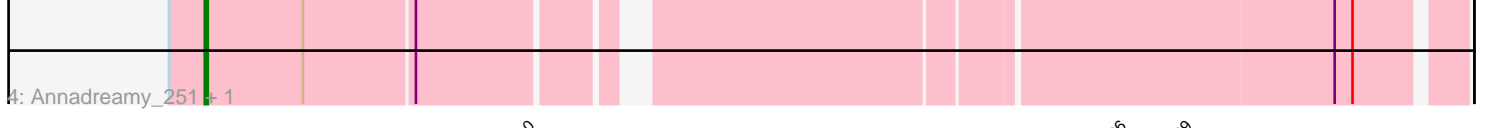
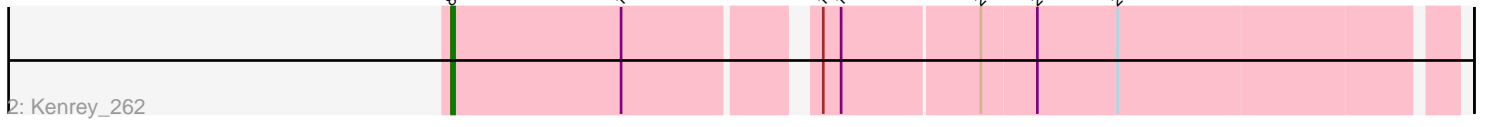


Pham 296837



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 296837 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296837 has 28 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Karp\_255, Westy\_257, Comrade\_251, SparkleGoddess\_255, Belfort\_256, Stigma\_253
- Track 2 : Kenrey\_262
- Track 3 : Jada\_256, Forrest\_255, DeluluLabubu\_258
- Track 4 : Annadreamy\_251, Limpid\_257
- Track 5 : Emma1919\_256, Gilson\_255, Maupel\_261, MeganTheeKilla\_257, Francob\_259, Phredrick\_261
- Track 6 : Faust\_259, SeresaTree\_264
- Track 7 : Blueeyedbeauty\_263
- Track 8 : Moab\_256, Patelgo\_259
- Track 9 : Beuffert\_260
- Track 10 : Sham\_250
- Track 11 : Wakanda\_250, Muntaha\_253
- Track 12 : Chaewon\_239

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

The start number called the most often in the published annotations is 10, it was called in 13 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DeluluLabubu\_258, Emma1919\_256, Forrest\_255, Francob\_259, Gilson\_255, Jada\_256, Maupel\_261, MeganTheeKilla\_257, Moab\_256, Muntaha\_253, Patelgo\_259, Phredrick\_261, Sham\_250, Wakanda\_250,

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

- 

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

- Annadreamy\_251, Belfort\_256, Beuffert\_260, Blueeyedbeauty\_263, Chaewon\_239, Comrade\_251, Faust\_259, Karp\_255, Kenrey\_262, Limpid\_257, SeresaTree\_264, SparkleGoddess\_255, Stigma\_253, Westy\_257,

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

Start 4:

- Found in 2 of 28 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy\_251 (BK1), Limpid\_257 (BK1),

Start 7:

- Found in 6 of 28 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Beuffert\_260 (BK1), Blueeyedbeauty\_263 (BK1), Faust\_259 (BK1), SeresaTree\_264 (BK1),

Start 8:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kenrey\_262 (BK1),

Start 10:

- Found in 14 of 28 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 13 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DeluluLabubu\_258 (BK1), Emma1919\_256 (BK1), Forrest\_255 (BK1), Francob\_259 (BK1), Gilson\_255 (BK1), Jada\_256 (BK1), Maupel\_261 (BK1), MeganTheeKilla\_257 (BK1), Moab\_256 (BK1), Muntaha\_253 (BK2), Patelgo\_259 (BK1), Phredrick\_261 (BK1), Sham\_250 (BK1), Wakanda\_250 (BK2),

Start 14:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chaewon\_239 (BK2),

Start 16:

- Found in 6 of 28 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 6 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_256 (BK1), Comrade\_251 (BK1), Karp\_255 (BK1), SparkleGoddess\_255 (BK1), Stigma\_253 (BK1), Westy\_257 (BK1),

**Summary by clusters:**

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

Info for manual annotations of cluster BK1:

- Start number 4 was manually annotated 2 times for cluster BK1.
- Start number 7 was manually annotated 3 times for cluster BK1.
- Start number 8 was manually annotated 1 time for cluster BK1.
- Start number 10 was manually annotated 11 times for cluster BK1.

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

Info for manual annotations of cluster BK2:

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

### **Gene Information:**

Gene: Annadreamy\_251 Start: 119921, Stop: 120310, Start Num: 4

Candidate Starts for Annadreamy\_251:

(3, 119909), (Start: 4 @119921 has 2 MA's), (5, 119954), (Start: 7 @119990 has 3 MA's), (31, 120272), (32, 120278),

Gene: Belfort\_256 Start: 122792, Stop: 123034, Start Num: 16

Candidate Starts for Belfort\_256:

(12, 122771), (Start: 16 @122792 has 6 MA's), (28, 122930), (29, 122948), (33, 123014),

Gene: Beuffert\_260 Start: 123926, Stop: 124258, Start Num: 7

Candidate Starts for Beuffert\_260:

(Start: 7 @123926 has 3 MA's), (13, 123992),

Gene: Blueeyedbeauty\_263 Start: 124575, Stop: 124910, Start Num: 7

Candidate Starts for Blueeyedbeauty\_263:

(1, 124458), (2, 124482), (Start: 7 @124575 has 3 MA's), (21, 124722), (30, 124854), (32, 124878), (34, 124887),

Gene: Chaewon\_239 Start: 120968, Stop: 121225, Start Num: 14

Candidate Starts for Chaewon\_239:

(11, 120950), (14, 120968), (20, 121025), (28, 121115), (29, 121133), (35, 121211),

Gene: Comrade\_251 Start: 122934, Stop: 123176, Start Num: 16

Candidate Starts for Comrade\_251:

(12, 122913), (Start: 16 @122934 has 6 MA's), (28, 123072), (29, 123090), (33, 123156),

Gene: DeluluLabubu\_258 Start: 122626, Stop: 122931, Start Num: 10

Candidate Starts for DeluluLabubu\_258:

(Start: 10 @122626 has 13 MA's), (26, 122812), (29, 122833),

Gene: Emma1919\_256 Start: 121695, Stop: 122000, Start Num: 10

Candidate Starts for Emma1919\_256:

(Start: 10 @121695 has 13 MA's), (26, 121881), (29, 121902),

Gene: Faust\_259 Start: 124710, Stop: 125051, Start Num: 7

Candidate Starts for Faust\_259:

(1, 124593), (2, 124617), (Start: 7 @124710 has 3 MA's), (13, 124776), (21, 124857), (32, 125013),

Gene: Forrest\_255 Start: 122435, Stop: 122740, Start Num: 10

Candidate Starts for Forrest\_255:

(Start: 10 @122435 has 13 MA's), (26, 122621), (29, 122642),

Gene: Francob\_259 Start: 122798, Stop: 123103, Start Num: 10

Candidate Starts for Francob\_259:

(Start: 10 @122798 has 13 MA's), (26, 122984), (29, 123005),

Gene: Gilson\_255 Start: 122053, Stop: 122358, Start Num: 10

Candidate Starts for Gilson\_255:

(Start: 10 @122053 has 13 MA's), (26, 122239), (29, 122260),

Gene: Jada\_256 Start: 121675, Stop: 121980, Start Num: 10

Candidate Starts for Jada\_256:

(Start: 10 @121675 has 13 MA's), (26, 121861), (29, 121882),

Gene: Karp\_255 Start: 124389, Stop: 124631, Start Num: 16

Candidate Starts for Karp\_255:

(12, 124368), (Start: 16 @124389 has 6 MA's), (28, 124527), (29, 124545), (33, 124611),

Gene: Kenrey\_262 Start: 123505, Stop: 123822, Start Num: 8

Candidate Starts for Kenrey\_262:

(Start: 8 @123505 has 1 MA's), (13, 123562), (18, 123619), (19, 123625), (23, 123670), (25, 123688), (27, 123715),

Gene: Limpid\_257 Start: 125234, Stop: 125623, Start Num: 4

Candidate Starts for Limpid\_257:

(3, 125222), (Start: 4 @125234 has 2 MA's), (5, 125267), (Start: 7 @125303 has 3 MA's), (31, 125585), (32, 125591),

Gene: Maupel\_261 Start: 121246, Stop: 121551, Start Num: 10

Candidate Starts for Maupel\_261:

(Start: 10 @121246 has 13 MA's), (26, 121432), (29, 121453),

Gene: MeganTheeKilla\_257 Start: 121864, Stop: 122169, Start Num: 10

Candidate Starts for MeganTheeKilla\_257:

(Start: 10 @121864 has 13 MA's), (26, 122050), (29, 122071),

Gene: Moab\_256 Start: 123622, Stop: 123930, Start Num: 10

Candidate Starts for Moab\_256:

(6, 123583), (Start: 10 @123622 has 13 MA's), (22, 123763), (26, 123814), (29, 123835),

Gene: Muntaha\_253 Start: 120926, Stop: 121201, Start Num: 10

Candidate Starts for Muntaha\_253:

(9, 120908), (Start: 10 @120926 has 13 MA's), (15, 120974),

Gene: Patelgo\_259 Start: 124569, Stop: 124877, Start Num: 10

Candidate Starts for Patelgo\_259:

(6, 124530), (Start: 10 @124569 has 13 MA's), (22, 124710), (26, 124761), (29, 124782),

Gene: Phredrick\_261 Start: 122546, Stop: 122851, Start Num: 10

Candidate Starts for Phredrick\_261:

(Start: 10 @122546 has 13 MA's), (26, 122732), (29, 122753),

Gene: SeresaTree\_264 Start: 124931, Stop: 125272, Start Num: 7

Candidate Starts for SeresaTree\_264:

(1, 124814), (2, 124838), (Start: 7 @124931 has 3 MA's), (13, 124997), (21, 125078), (32, 125234),

Gene: Sham\_250 Start: 124680, Stop: 124979, Start Num: 10

Candidate Starts for Sham\_250:

(Start: 10 @124680 has 13 MA's), (17, 124734), (24, 124827), (29, 124884),

Gene: SparkleGoddess\_255 Start: 123665, Stop: 123907, Start Num: 16

Candidate Starts for SparkleGoddess\_255:

(12, 123644), (Start: 16 @123665 has 6 MA's), (28, 123803), (29, 123821), (33, 123887),

Gene: Stigma\_253 Start: 123378, Stop: 123620, Start Num: 16

Candidate Starts for Stigma\_253:

(12, 123357), (Start: 16 @123378 has 6 MA's), (28, 123516), (29, 123534), (33, 123600),

Gene: Wakanda\_250 Start: 120140, Stop: 120415, Start Num: 10

Candidate Starts for Wakanda\_250:

(9, 120122), (Start: 10 @120140 has 13 MA's), (15, 120188),

Gene: Westy\_257 Start: 124195, Stop: 124437, Start Num: 16

Candidate Starts for Westy\_257:

(12, 124174), (Start: 16 @124195 has 6 MA's), (28, 124333), (29, 124351), (33, 124417),