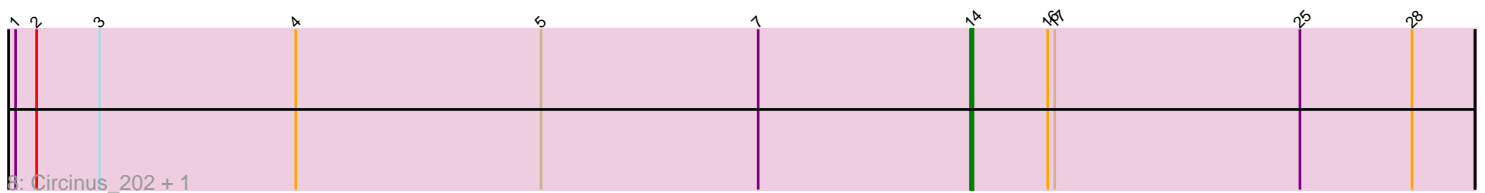
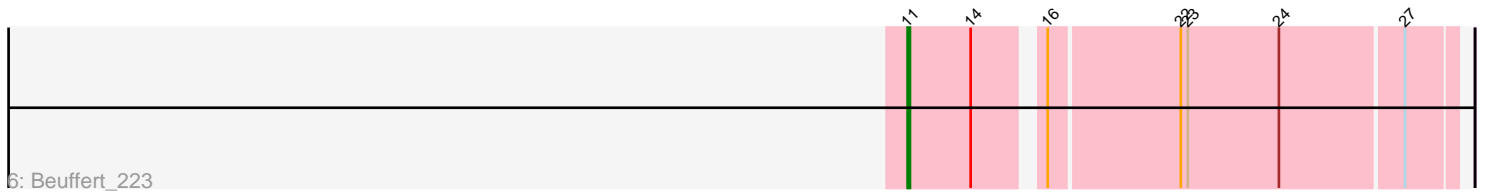
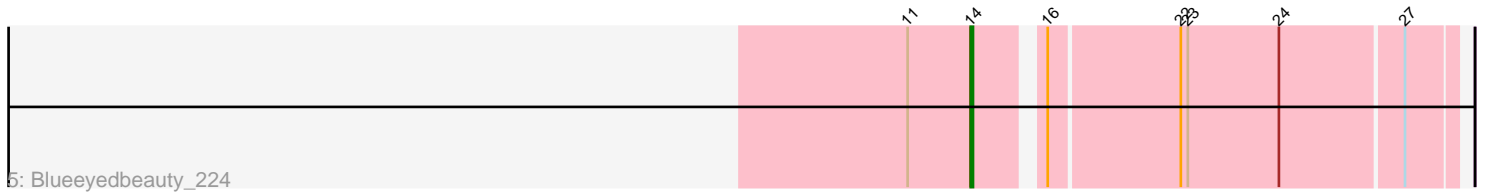
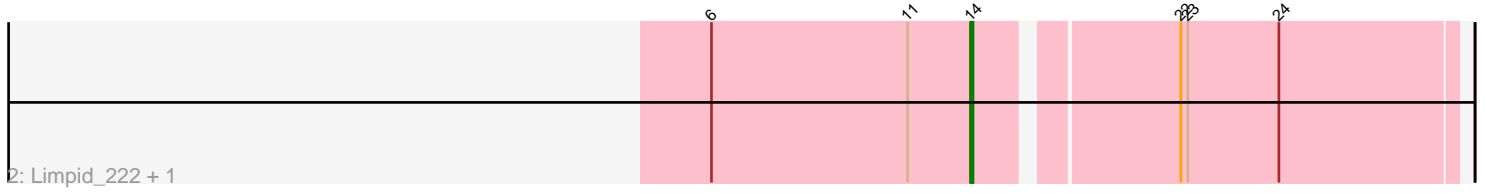
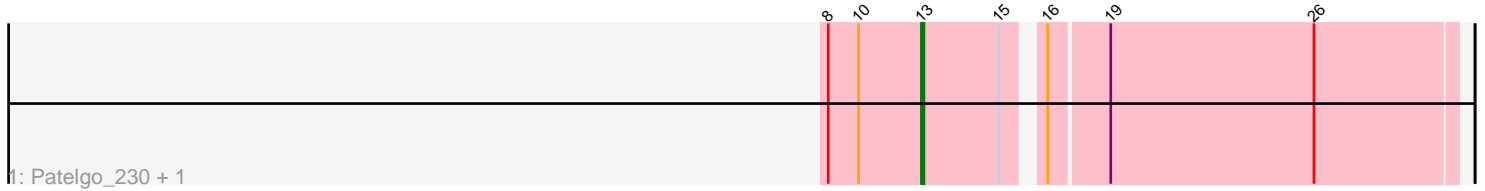


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 293205 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293205 has 17 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Patelgo\_230, Moab\_229
- Track 2 : Limpid\_222, Annadreamy\_215
- Track 3 : Faust\_225, SeresaTree\_229
- Track 4 : Stigma\_227, Westy\_231, Belfort\_228, SparkleGoddess\_228, Karp\_224, Comrade\_225
- Track 5 : Blueeyedbeauty\_224
- Track 6 : Beuffert\_223
- Track 7 : Chaewon\_204
- Track 8 : Circinus\_202, BillNye\_202

### ***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 7 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_228, Comrade\_225, Faust\_225, Karp\_224, SeresaTree\_229, SparkleGoddess\_228, Stigma\_227, Westy\_231,

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

- 

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

- Annadreamy\_215, Beuffert\_223, BillNye\_202, Blueeyedbeauty\_224, Chaewon\_204, Circinus\_202, Limpid\_222, Moab\_229, Patelgo\_230,

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

Start 11:

- Found in 4 of 17 ( 23.5% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Beuffert\_223 (BK1),

Start 12:

- Found in 8 of 17 ( 47.1% ) of genes in pham
- Manual Annotations of this start: 7 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_228 (BK1), Comrade\_225 (BK1), Faust\_225 (BK1), Karp\_224 (BK1), SeresaTree\_229 (BK1), SparkleGoddess\_228 (BK1), Stigma\_227 (BK1), Westy\_231 (BK1),

Start 13:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Moab\_229 (BK1), Patelgo\_230 (BK1),

Start 14:

- Found in 7 of 17 ( 41.2% ) of genes in pham
- Manual Annotations of this start: 5 of 15
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Annadreamy\_215 (BK1), BillNye\_202 (BK2), Blueeyedbeauty\_224 (BK1), Chaewon\_204 (BK2), Circinus\_202 (BK2), Limpid\_222 (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 1 time for cluster BK1.
- Start number 12 was manually annotated 7 times for cluster BK1.
- Start number 13 was manually annotated 2 times for cluster BK1.
- Start number 14 was manually annotated 3 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 14 was manually annotated 2 times for cluster BK2.

**Gene Information:**

Gene: Annadreamy\_215 Start: 106855, Stop: 107049, Start Num: 14

Candidate Starts for Annadreamy\_215:

(6, 106744), (Start: 11 @106828 has 1 MA's), (Start: 14 @106855 has 5 MA's), (22, 106933), (23, 106936), (24, 106975),

Gene: Belfort\_228 Start: 111860, Stop: 112078, Start Num: 12

Candidate Starts for Belfort\_228:

(8, 111824), (10, 111836), (Start: 12 @111860 has 7 MA's), (19, 111932), (26, 112019),

Gene: Beuffert\_223 Start: 110989, Stop: 111207, Start Num: 11

Candidate Starts for Beuffert\_223:

(Start: 11 @110989 has 1 MA's), (Start: 14 @111016 has 5 MA's), (16, 111040), (22, 111094), (23, 111097), (24, 111136), (27, 111187),

Gene: BillNye\_202 Start: 107191, Stop: 107406, Start Num: 14  
Candidate Starts for BillNye\_202:  
(1, 106783), (2, 106792), (3, 106819), (4, 106903), (5, 107008), (7, 107101), (Start: 14 @107191 has 5 MA's), (16, 107224), (17, 107227), (25, 107332), (28, 107380),

Gene: Blueeyedbeauty\_224 Start: 110552, Stop: 110743, Start Num: 14  
Candidate Starts for Blueeyedbeauty\_224:  
(Start: 11 @110525 has 1 MA's), (Start: 14 @110552 has 5 MA's), (16, 110576), (22, 110630), (23, 110633), (24, 110672), (27, 110723),

Gene: Chaewon\_204 Start: 107113, Stop: 107328, Start Num: 14  
Candidate Starts for Chaewon\_204:  
(1, 106705), (2, 106714), (7, 107023), (9, 107056), (Start: 14 @107113 has 5 MA's), (16, 107146), (18, 107161), (20, 107176), (28, 107302),

Gene: Circinus\_202 Start: 106798, Stop: 107013, Start Num: 14  
Candidate Starts for Circinus\_202:  
(1, 106390), (2, 106399), (3, 106426), (4, 106510), (5, 106615), (7, 106708), (Start: 14 @106798 has 5 MA's), (16, 106831), (17, 106834), (25, 106939), (28, 106987),

Gene: Comrade\_225 Start: 112059, Stop: 112277, Start Num: 12  
Candidate Starts for Comrade\_225:  
(8, 112023), (10, 112035), (Start: 12 @112059 has 7 MA's), (19, 112131), (26, 112218),

Gene: Faust\_225 Start: 112187, Stop: 112405, Start Num: 12  
Candidate Starts for Faust\_225:  
(8, 112151), (9, 112154), (10, 112163), (Start: 12 @112187 has 7 MA's), (19, 112259), (21, 112265), (26, 112346),

Gene: Karp\_224 Start: 112226, Stop: 112444, Start Num: 12  
Candidate Starts for Karp\_224:  
(8, 112190), (10, 112202), (Start: 12 @112226 has 7 MA's), (19, 112298), (26, 112385),

Gene: Limpid\_222 Start: 112168, Stop: 112362, Start Num: 14  
Candidate Starts for Limpid\_222:  
(6, 112057), (Start: 11 @112141 has 1 MA's), (Start: 14 @112168 has 5 MA's), (22, 112246), (23, 112249), (24, 112288),

Gene: Moab\_229 Start: 112923, Stop: 113138, Start Num: 13  
Candidate Starts for Moab\_229:  
(8, 112884), (10, 112896), (Start: 13 @112923 has 2 MA's), (15, 112956), (16, 112968), (19, 112992), (26, 113079),

Gene: Patelgo\_230 Start: 113335, Stop: 113550, Start Num: 13  
Candidate Starts for Patelgo\_230:  
(8, 113296), (10, 113308), (Start: 13 @113335 has 2 MA's), (15, 113368), (16, 113380), (19, 113404), (26, 113491),

Gene: SeresaTree\_229 Start: 112173, Stop: 112391, Start Num: 12  
Candidate Starts for SeresaTree\_229:  
(8, 112137), (9, 112140), (10, 112149), (Start: 12 @112173 has 7 MA's), (19, 112245), (21, 112251), (26, 112332),

Gene: SparkleGoddess\_228 Start: 112287, Stop: 112505, Start Num: 12

Candidate Starts for SparkleGoddess\_228:

(8, 112251), (10, 112263), (Start: 12 @112287 has 7 MA's), (19, 112359), (26, 112446),

Gene: Stigma\_227 Start: 112493, Stop: 112711, Start Num: 12

Candidate Starts for Stigma\_227:

(8, 112457), (10, 112469), (Start: 12 @112493 has 7 MA's), (19, 112565), (26, 112652),

Gene: Westy\_231 Start: 113280, Stop: 113498, Start Num: 12

Candidate Starts for Westy\_231:

(8, 113244), (10, 113256), (Start: 12 @113280 has 7 MA's), (19, 113352), (26, 113439),