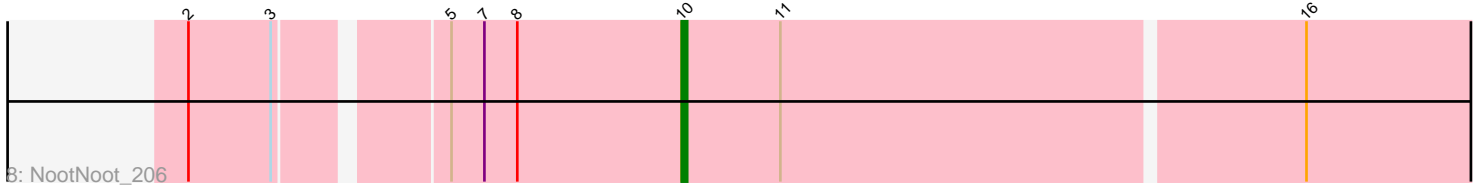
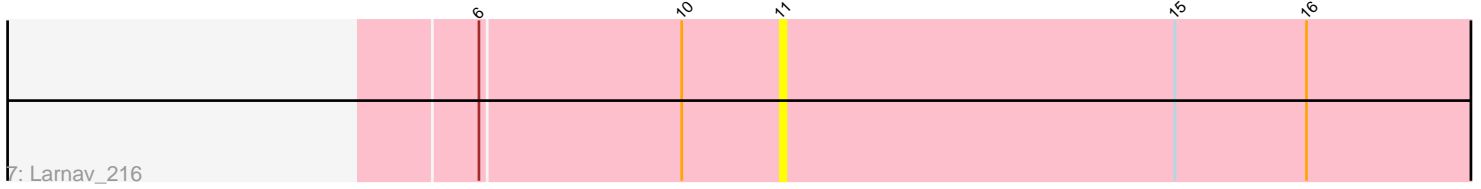
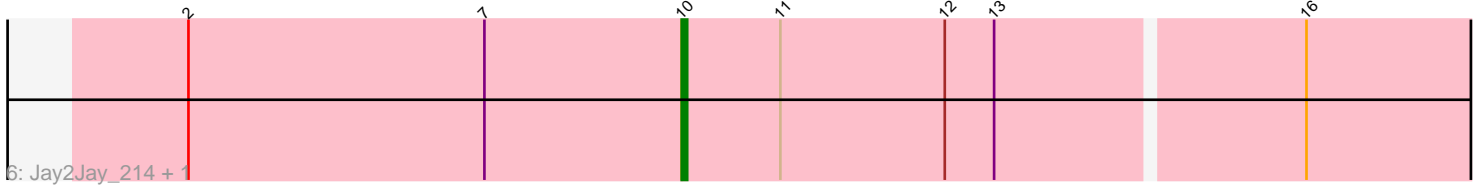
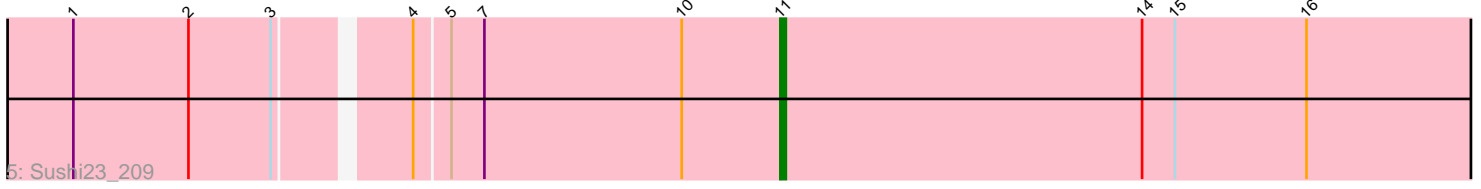
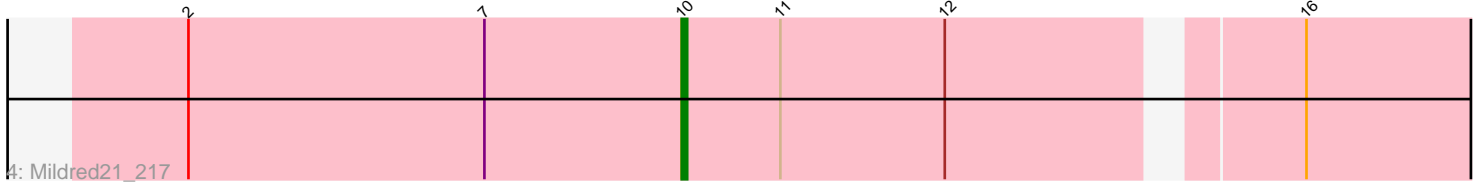
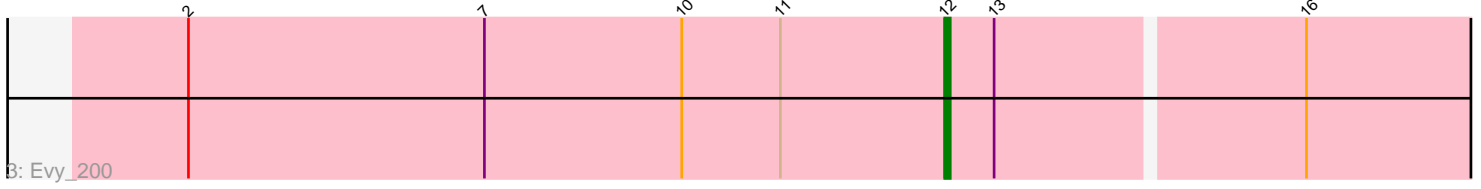
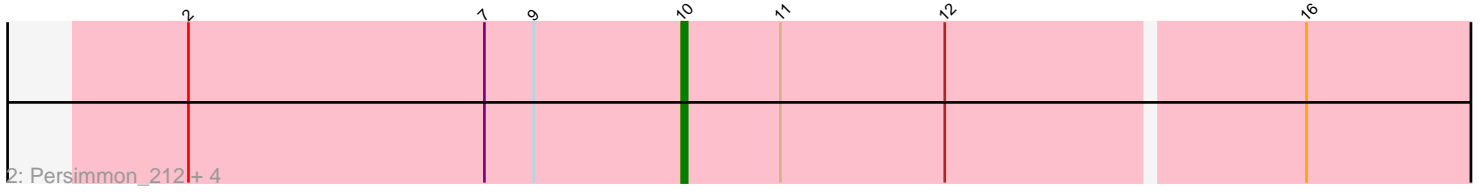
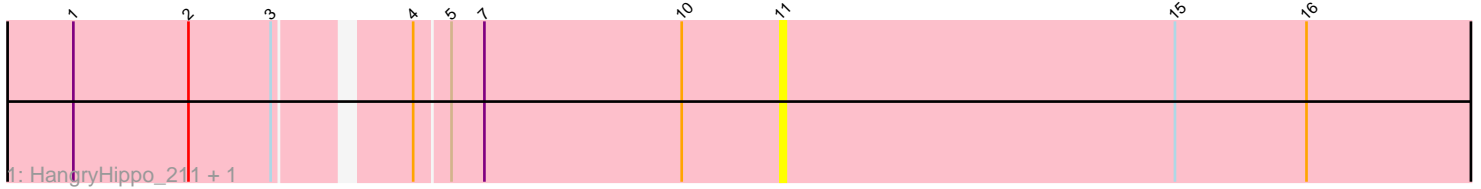


Pham 168634



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 168634 Report

This analysis was run 07/09/24 on database version 566.

Pham number 168634 has 14 members, 4 are drafts.

Phages represented in each track:

- Track 1 : HangryHippo\_211, BlueOtter\_211
- Track 2 : Persimmon\_212, Braelyn\_206, Bartholomune\_210, WhereRU\_214, Navo\_204
- Track 3 : Evy\_200
- Track 4 : Mildred21\_217
- Track 5 : Sushi23\_209
- Track 6 : Jay2Jay\_214, Warpy\_212
- Track 7 : Larnav\_216
- Track 8 : NootNoot\_206

### ***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 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bartholomune\_210, Braelyn\_206, Jay2Jay\_214, Mildred21\_217, Navo\_204, NootNoot\_206, Persimmon\_212, Warpy\_212, WhereRU\_214,

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

- BlueOtter\_211, Evy\_200, HangryHippo\_211, Larnav\_216, Sushi23\_209,

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

- 

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

Start 10:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 10
- Called 64.3% of time when present
- Phage (with cluster) where this start called: Bartholomune\_210 (BE1), Braelyn\_206 (BE1), Jay2Jay\_214 (BE1), Mildred21\_217 (BE1), Navo\_204 (BE1), NootNoot\_206 (BE1), Persimmon\_212 (BE1), Warpy\_212 (BE1), WhereRU\_214 (BE1),

Start 11:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 28.6% of time when present
- Phage (with cluster) where this start called: BlueOtter\_211 (BE1), HangryHippo\_211 (BE1), Larnav\_216 (BE1), Sushi23\_209 (BE1),

Start 12:

- Found in 9 of 14 ( 64.3% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Evy\_200 (BE1),

**Summary by clusters:**

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:

- Start number 10 was manually annotated 8 times for cluster BE1.
- Start number 11 was manually annotated 1 time for cluster BE1.
- Start number 12 was manually annotated 1 time for cluster BE1.

**Gene Information:**

Gene: Bartholomune\_210 Start: 105719, Stop: 105883, Start Num: 10

Candidate Starts for Bartholomune\_210:

(2, 105629), (7, 105683), (9, 105692), (Start: 10 @105719 has 8 MA's), (Start: 11 @105737 has 1 MA's), (Start: 12 @105767 has 1 MA's), (16, 105830),

Gene: BlueOtter\_211 Start: 105874, Stop: 106023, Start Num: 11

Candidate Starts for BlueOtter\_211:

(1, 105751), (2, 105772), (3, 105787), (4, 105808), (5, 105814), (7, 105820), (Start: 10 @105856 has 8 MA's), (Start: 11 @105874 has 1 MA's), (15, 105946), (16, 105970),

Gene: Braelyn\_206 Start: 105366, Stop: 105530, Start Num: 10

Candidate Starts for Braelyn\_206:

(2, 105276), (7, 105330), (9, 105339), (Start: 10 @105366 has 8 MA's), (Start: 11 @105384 has 1 MA's), (Start: 12 @105414 has 1 MA's), (16, 105477),

Gene: Evy\_200 Start: 106705, Stop: 106821, Start Num: 12

Candidate Starts for Evy\_200:

(2, 106567), (7, 106621), (Start: 10 @106657 has 8 MA's), (Start: 11 @106675 has 1 MA's), (Start: 12 @106705 has 1 MA's), (13, 106714), (16, 106768),

Gene: HangryHippo\_211 Start: 105874, Stop: 106023, Start Num: 11

Candidate Starts for HangryHippo\_211:

(1, 105751), (2, 105772), (3, 105787), (4, 105808), (5, 105814), (7, 105820), (Start: 10 @105856 has 8 MA's), (Start: 11 @105874 has 1 MA's), (15, 105946), (16, 105970),

Gene: Jay2Jay\_214 Start: 106812, Stop: 106976, Start Num: 10

Candidate Starts for Jay2Jay\_214:

(2, 106722), (7, 106776), (Start: 10 @106812 has 8 MA's), (Start: 11 @106830 has 1 MA's), (Start: 12 @106860 has 1 MA's), (13, 106869), (16, 106923),

Gene: Larnav\_216 Start: 106335, Stop: 106484, Start Num: 11

Candidate Starts for Larnav\_216:

(6, 106281), (Start: 10 @106317 has 8 MA's), (Start: 11 @106335 has 1 MA's), (15, 106407), (16, 106431),

Gene: Mildred21\_217 Start: 104294, Stop: 104452, Start Num: 10

Candidate Starts for Mildred21\_217:

(2, 104204), (7, 104258), (Start: 10 @104294 has 8 MA's), (Start: 11 @104312 has 1 MA's), (Start: 12 @104342 has 1 MA's), (16, 104399),

Gene: Navo\_204 Start: 104570, Stop: 104734, Start Num: 10

Candidate Starts for Navo\_204:

(2, 104480), (7, 104534), (9, 104543), (Start: 10 @104570 has 8 MA's), (Start: 11 @104588 has 1 MA's), (Start: 12 @104618 has 1 MA's), (16, 104681),

Gene: NootNoot\_206 Start: 104774, Stop: 104938, Start Num: 10

Candidate Starts for NootNoot\_206:

(2, 104690), (3, 104705), (5, 104732), (7, 104738), (8, 104744), (Start: 10 @104774 has 8 MA's), (Start: 11 @104792 has 1 MA's), (16, 104885),

Gene: Persimmon\_212 Start: 105588, Stop: 105752, Start Num: 10

Candidate Starts for Persimmon\_212:

(2, 105498), (7, 105552), (9, 105561), (Start: 10 @105588 has 8 MA's), (Start: 11 @105606 has 1 MA's), (Start: 12 @105636 has 1 MA's), (16, 105699),

Gene: Sushi23\_209 Start: 107175, Stop: 107324, Start Num: 11

Candidate Starts for Sushi23\_209:

(1, 107052), (2, 107073), (3, 107088), (4, 107109), (5, 107115), (7, 107121), (Start: 10 @107157 has 8 MA's), (Start: 11 @107175 has 1 MA's), (14, 107241), (15, 107247), (16, 107271),

Gene: Warpy\_212 Start: 106250, Stop: 106414, Start Num: 10

Candidate Starts for Warpy\_212:

(2, 106160), (7, 106214), (Start: 10 @106250 has 8 MA's), (Start: 11 @106268 has 1 MA's), (Start: 12 @106298 has 1 MA's), (13, 106307), (16, 106361),

Gene: WhereRU\_214 Start: 105767, Stop: 105931, Start Num: 10

Candidate Starts for WhereRU\_214:

(2, 105677), (7, 105731), (9, 105740), (Start: 10 @105767 has 8 MA's), (Start: 11 @105785 has 1 MA's), (Start: 12 @105815 has 1 MA's), (16, 105878),