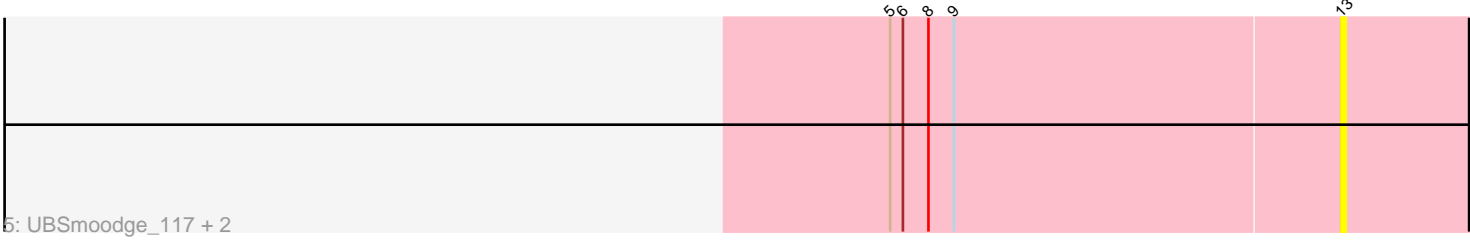
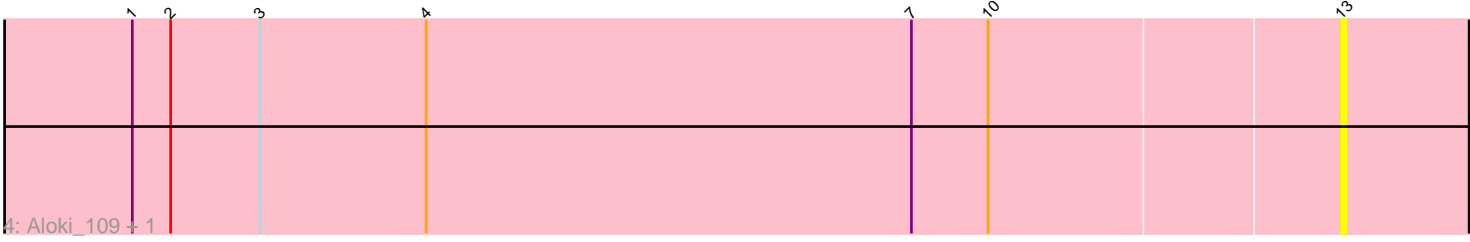
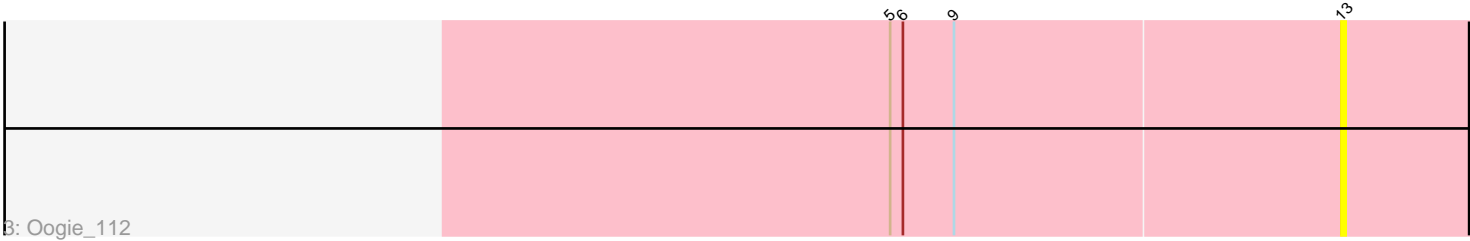
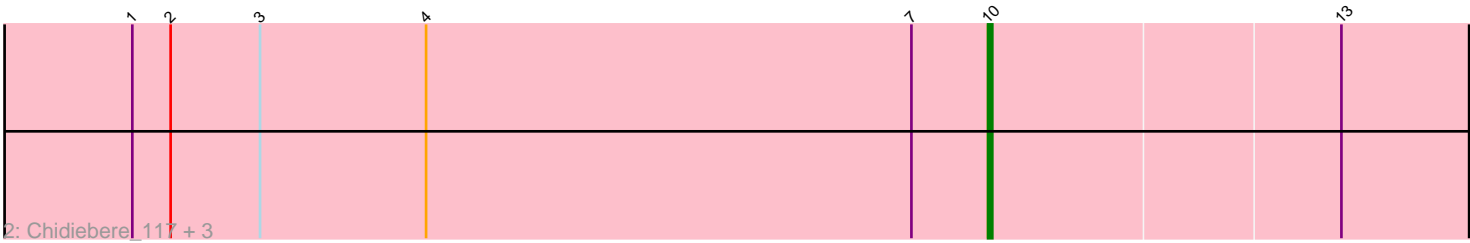


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 87665 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87665 has 12 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Gray\_114
- Track 2 : Chidiebere\_117, Hanem\_116, Kabocha\_118, Schomber\_115
- Track 3 : Oogie\_112
- Track 4 : Alok\_109, Pakusa\_111
- Track 5 : UBSmoodge\_117, ScarletRaider\_115, FlyingTortilla\_115
- Track 6 : GMA6\_99

### ***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 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chidiebere\_117, Hanem\_116, Kabocha\_118, Schomber\_115,

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

- Alok\_109, Gray\_114, Pakusa\_111,

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

- FlyingTortilla\_115, GMA6\_99, Oogie\_112, ScarletRaider\_115, UBSmoodge\_117,

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

Start 7:

- Found in 7 of 12 ( 58.3% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Gray\_114 (DQ),

Start 10:

- Found in 7 of 12 ( 58.3% ) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 57.1% of time when present

- Phage (with cluster) where this start called: Chidiebere\_117 (DQ), Hanem\_116 (DQ), Kabocha\_118 (DQ), Schomber\_115 (DQ),

Start 13:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 58.3% of time when present
- Phage (with cluster) where this start called: Alok\_109 (DQ), FlyingTortilla\_115 (DQ), GMA6\_99 (DQ), Oogie\_112 (DQ), Pakusa\_111 (DQ), ScarletRaider\_115 (DQ), UBSmoodge\_117 (DQ),

### **Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 7 was manually annotated 1 time for cluster DQ.
- Start number 10 was manually annotated 4 times for cluster DQ.

### **Gene Information:**

Gene: Alok\_109 Start: 80996, Stop: 81310, Start Num: 13

Candidate Starts for Alok\_109:

(1, 80714), (2, 80723), (3, 80744), (4, 80783), (Start: 7 @80897 has 1 MA's), (Start: 10 @80915 has 4 MA's), (13, 80996),

Gene: Chidiebere\_117 Start: 82045, Stop: 82440, Start Num: 10

Candidate Starts for Chidiebere\_117:

(1, 81844), (2, 81853), (3, 81874), (4, 81913), (Start: 7 @82027 has 1 MA's), (Start: 10 @82045 has 4 MA's), (13, 82126),

Gene: FlyingTortilla\_115 Start: 84976, Stop: 85263, Start Num: 13

Candidate Starts for FlyingTortilla\_115:

(5, 84871), (6, 84874), (8, 84880), (9, 84886), (13, 84976),

Gene: GMA6\_99 Start: 72859, Stop: 73206, Start Num: 13

Candidate Starts for GMA6\_99:

(11, 72844), (12, 72853), (13, 72859),

Gene: Gray\_114 Start: 81360, Stop: 81770, Start Num: 7

Candidate Starts for Gray\_114:

(1, 81177), (2, 81186), (3, 81207), (4, 81246), (Start: 7 @81360 has 1 MA's), (Start: 10 @81378 has 4 MA's), (13, 81459),

Gene: Hanem\_116 Start: 80915, Stop: 81310, Start Num: 10

Candidate Starts for Hanem\_116:

(1, 80714), (2, 80723), (3, 80744), (4, 80783), (Start: 7 @80897 has 1 MA's), (Start: 10 @80915 has 4 MA's), (13, 80996),

Gene: Kabocha\_118 Start: 82858, Stop: 83253, Start Num: 10

Candidate Starts for Kabocha\_118:

(1, 82657), (2, 82666), (3, 82687), (4, 82726), (Start: 7 @82840 has 1 MA's), (Start: 10 @82858 has 4 MA's), (13, 82939),

Gene: Oogie\_112 Start: 82957, Stop: 83274, Start Num: 13

Candidate Starts for Oogie\_112:

(5, 82852), (6, 82855), (9, 82867), (13, 82957),

Gene: Pakusa\_111 Start: 80924, Stop: 81238, Start Num: 13

Candidate Starts for Pakusa\_111:

(1, 80642), (2, 80651), (3, 80672), (4, 80711), (Start: 7 @80825 has 1 MA's), (Start: 10 @80843 has 4 MA's), (13, 80924),

Gene: ScarletRaider\_115 Start: 84193, Stop: 84480, Start Num: 13

Candidate Starts for ScarletRaider\_115:

(5, 84088), (6, 84091), (8, 84097), (9, 84103), (13, 84193),

Gene: Schomber\_115 Start: 81246, Stop: 81641, Start Num: 10

Candidate Starts for Schomber\_115:

(1, 81045), (2, 81054), (3, 81075), (4, 81114), (Start: 7 @81228 has 1 MA's), (Start: 10 @81246 has 4 MA's), (13, 81327),

Gene: UBSmoodge\_117 Start: 84763, Stop: 85050, Start Num: 13

Candidate Starts for UBSmoodge\_117:

(5, 84658), (6, 84661), (8, 84667), (9, 84673), (13, 84763),