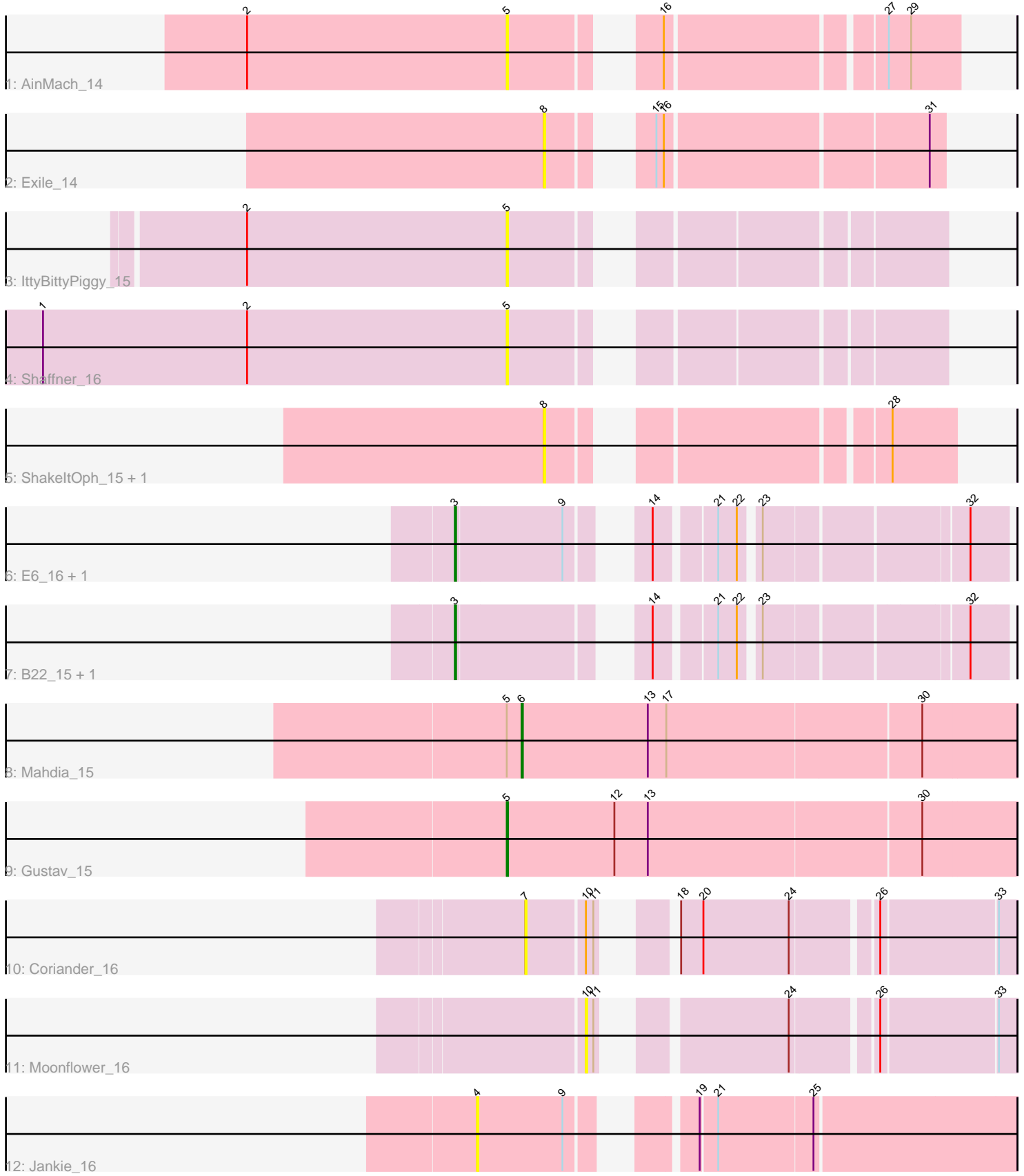


Pham 203414



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 203414 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203414 has 15 members, 9 are drafts.

Phages represented in each track:

- Track 1 : AinMach\_14
- Track 2 : Exile\_14
- Track 3 : IttyBittyPiggy\_15
- Track 4 : Shaffner\_16
- Track 5 : ShakeltOph\_15, MiniMommy\_14
- Track 6 : E6\_16, Doucette\_15
- Track 7 : B22\_15, G4\_15
- Track 8 : Mahdia\_15
- Track 9 : Gustav\_15
- Track 10 : Coriander\_16
- Track 11 : Moonflower\_16
- Track 12 : Jankie\_16

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- B22\_15, Doucette\_15, E6\_16, G4\_15,

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

- 

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

- AinMach\_14, Coriander\_16, Exile\_14, Gustav\_15, IttyBittyPiggy\_15, Jankie\_16, Mahdia\_15, MiniMommy\_14, Moonflower\_16, Shaffner\_16, ShakeltOph\_15,

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

Start 3:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 4 of 6
- Called 100.0% of time when present

- Phage (with cluster) where this start called: B22\_15 (BW), Doucette\_15 (BW), E6\_16 (BW), G4\_15 (BW),

Start 4:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jankie\_16 (FP),

Start 5:

- Found in 5 of 15 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 80.0% of time when present
- Phage (with cluster) where this start called: AinMach\_14 (AZ), Gustav\_15 (CD), IttyBittyPiggy\_15 (AZ1), Shaffner\_16 (AZ1),

Start 6:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mahdia\_15 (CD),

Start 7:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coriander\_16 (DB),

Start 8:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Exile\_14 (AZ), MiniMommy\_14 (AZ4), ShakeltOph\_15 (AZ4),

Start 10:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Moonflower\_16 (DB),

**Summary by clusters:**

There are 7 clusters represented in this pham: FP, DB, CD, BW, AZ1, AZ, AZ4,

Info for manual annotations of cluster BW:

- Start number 3 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster CD:

- Start number 5 was manually annotated 1 time for cluster CD.

- Start number 6 was manually annotated 1 time for cluster CD.

**Gene Information:**

Gene: AinMach\_14 Start: 9534, Stop: 9839, Start Num: 5

Candidate Starts for AinMach\_14:

(2, 9324), (Start: 5 @9534 has 1 MA's), (16, 9621), (27, 9783), (29, 9801),

Gene: B22\_15 Start: 9378, Stop: 9746, Start Num: 3

Candidate Starts for B22\_15:

(Start: 3 @9378 has 4 MA's), (14, 9498), (21, 9540), (22, 9555), (23, 9567), (32, 9717),

Gene: Coriander\_16 Start: 10544, Stop: 10876, Start Num: 7

Candidate Starts for Coriander\_16:

(7, 10544), (10, 10589), (11, 10595), (18, 10625), (20, 10643), (24, 10712), (26, 10772), (33, 10862),

Gene: Doucette\_15 Start: 9437, Stop: 9805, Start Num: 3

Candidate Starts for Doucette\_15:

(Start: 3 @9437 has 4 MA's), (9, 9521), (14, 9557), (21, 9599), (22, 9614), (23, 9626), (32, 9776),

Gene: E6\_16 Start: 9485, Stop: 9853, Start Num: 3

Candidate Starts for E6\_16:

(Start: 3 @9485 has 4 MA's), (9, 9569), (14, 9605), (21, 9647), (22, 9662), (23, 9674), (32, 9824),

Gene: Exile\_14 Start: 10360, Stop: 10629, Start Num: 8

Candidate Starts for Exile\_14:

(8, 10360), (15, 10411), (16, 10417), (31, 10618),

Gene: G4\_15 Start: 9427, Stop: 9795, Start Num: 3

Candidate Starts for G4\_15:

(Start: 3 @9427 has 4 MA's), (14, 9547), (21, 9589), (22, 9604), (23, 9616), (32, 9766),

Gene: Gustav\_15 Start: 9420, Stop: 9824, Start Num: 5

Candidate Starts for Gustav\_15:

(Start: 5 @9420 has 1 MA's), (12, 9507), (13, 9534), (30, 9750),

Gene: IttyBittyPiggy\_15 Start: 10410, Stop: 10706, Start Num: 5

Candidate Starts for IttyBittyPiggy\_15:

(2, 10200), (Start: 5 @10410 has 1 MA's),

Gene: Jankie\_16 Start: 8255, Stop: 8635, Start Num: 4

Candidate Starts for Jankie\_16:

(4, 8255), (9, 8324), (19, 8390), (21, 8402), (25, 8477),

Gene: Mahdia\_15 Start: 9351, Stop: 9743, Start Num: 6

Candidate Starts for Mahdia\_15:

(Start: 5 @9339 has 1 MA's), (Start: 6 @9351 has 1 MA's), (13, 9453), (17, 9468), (30, 9669),

Gene: MiniMommy\_14 Start: 8690, Stop: 8962, Start Num: 8

Candidate Starts for MiniMommy\_14:  
(8, 8690), (28, 8912),

Gene: Moonflower\_16 Start: 10315, Stop: 10602, Start Num: 10  
Candidate Starts for Moonflower\_16:  
(10, 10315), (11, 10321), (24, 10438), (26, 10498), (33, 10588),

Gene: Shaffner\_16 Start: 10510, Stop: 10806, Start Num: 5  
Candidate Starts for Shaffner\_16:  
(1, 10135), (2, 10300), (Start: 5 @10510 has 1 MA's),

Gene: ShakeltOph\_15 Start: 8689, Stop: 8961, Start Num: 8  
Candidate Starts for ShakeltOph\_15:  
(8, 8689), (28, 8911),