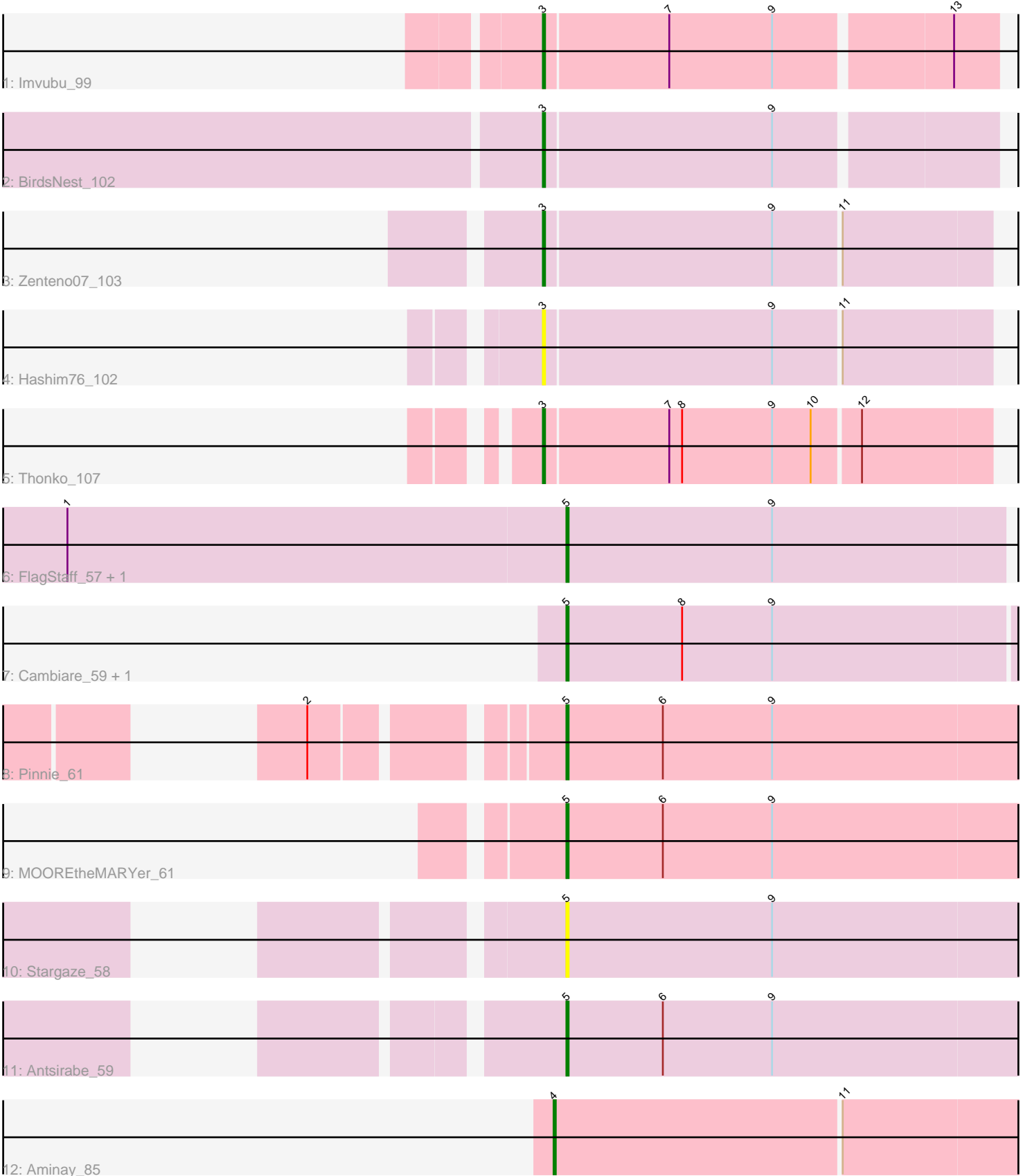


Pham 5344



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 5344 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5344 has 14 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Imvubu\_99
- Track 2 : BirdsNest\_102
- Track 3 : Zenteno07\_103
- Track 4 : Hashim76\_102
- Track 5 : Thonko\_107
- Track 6 : FlagStaff\_57, Pace1224\_58
- Track 7 : Cambiare\_59, Avocado\_60
- Track 8 : Pinnie\_61
- Track 9 : MOOREtheMARYer\_61
- Track 10 : Stargaze\_58
- Track 11 : Antsirabe\_59
- Track 12 : Aminay\_85

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

The start number called the most often in the published annotations is 5, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antsirabe\_59, Avocado\_60, Cambiare\_59, FlagStaff\_57, MOOREtheMARYer\_61, Pace1224\_58, Pinnie\_61, Stargaze\_58,

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

- 

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

- Aminay\_85, BirdsNest\_102, Hashim76\_102, Imvubu\_99, Thonko\_107, Zenteno07\_103,

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

Start 3:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- Manual Annotations of this start: 4 of 11

- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest\_102 (B13), Hashim76\_102 (B13), Imvubu\_99 (B10), Thonko\_107 (B8), Zenteno07\_103 (B13),

Start 4:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay\_85 (K7),

Start 5:

- Found in 8 of 14 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe\_59 (G5), Avocado\_60 (G2), Cambiare\_59 (G2), FlagStaff\_57 (G2), MOOREtheMARYer\_61 (G3), Pace1224\_58 (G2), Pinnie\_61 (G3), Stargaze\_58 (G5),

### **Summary by clusters:**

There are 7 clusters represented in this pham: G5, G3, G2, K7, B13, B10, B8,

Info for manual annotations of cluster B10:

- Start number 3 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B13:

- Start number 3 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B8:

- Start number 3 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster G2:

- Start number 5 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 5 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G5:

- Start number 5 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster K7:

- Start number 4 was manually annotated 1 time for cluster K7.

### **Gene Information:**

Gene: Aminay\_85 Start: 53440, Stop: 53658, Start Num: 4

Candidate Starts for Aminay\_85:

(Start: 4 @53440 has 1 MA's), (11, 53572),

Gene: Antsirabe\_59 Start: 41480, Stop: 41695, Start Num: 5

Candidate Starts for Antsirabe\_59:

(Start: 5 @41480 has 6 MA's), (6, 41525), (9, 41576),

Gene: Avocado\_60 Start: 41904, Stop: 42116, Start Num: 5

Candidate Starts for Avocado\_60:

(Start: 5 @41904 has 6 MA's), (8, 41958), (9, 42000),

Gene: BirdsNest\_102 Start: 69147, Stop: 68944, Start Num: 3

Candidate Starts for BirdsNest\_102:

(Start: 3 @69147 has 4 MA's), (9, 69042),

Gene: Cambiare\_59 Start: 41704, Stop: 41916, Start Num: 5

Candidate Starts for Cambiare\_59:

(Start: 5 @41704 has 6 MA's), (8, 41758), (9, 41800),

Gene: FlagStaff\_57 Start: 40565, Stop: 40768, Start Num: 5

Candidate Starts for FlagStaff\_57:

(1, 40334), (Start: 5 @40565 has 6 MA's), (9, 40661),

Gene: Hashim76\_102 Start: 68605, Stop: 68402, Start Num: 3

Candidate Starts for Hashim76\_102:

(Start: 3 @68605 has 4 MA's), (9, 68500), (11, 68470),

Gene: Imvubu\_99 Start: 68352, Stop: 68149, Start Num: 3

Candidate Starts for Imvubu\_99:

(Start: 3 @68352 has 4 MA's), (7, 68295), (9, 68247), (13, 68169),

Gene: MOOREtheMARYer\_61 Start: 41470, Stop: 41685, Start Num: 5

Candidate Starts for MOOREtheMARYer\_61:

(Start: 5 @41470 has 6 MA's), (6, 41515), (9, 41566),

Gene: Pace1224\_58 Start: 40594, Stop: 40797, Start Num: 5

Candidate Starts for Pace1224\_58:

(1, 40363), (Start: 5 @40594 has 6 MA's), (9, 40690),

Gene: Pinnie\_61 Start: 41905, Stop: 42120, Start Num: 5

Candidate Starts for Pinnie\_61:

(2, 41806), (Start: 5 @41905 has 6 MA's), (6, 41950), (9, 42001),

Gene: Stargaze\_58 Start: 41087, Stop: 41302, Start Num: 5

Candidate Starts for Stargaze\_58:

(Start: 5 @41087 has 6 MA's), (9, 41183),

Gene: Thonko\_107 Start: 69022, Stop: 68819, Start Num: 3

Candidate Starts for Thonko\_107:

(Start: 3 @69022 has 4 MA's), (7, 68965), (8, 68959), (9, 68917), (10, 68899), (12, 68878),

Gene: Zenteno07\_103 Start: 68891, Stop: 68688, Start Num: 3

Candidate Starts for Zenteno07\_103:

(Start: 3 @68891 has 4 MA's), (9, 68786), (11, 68756),