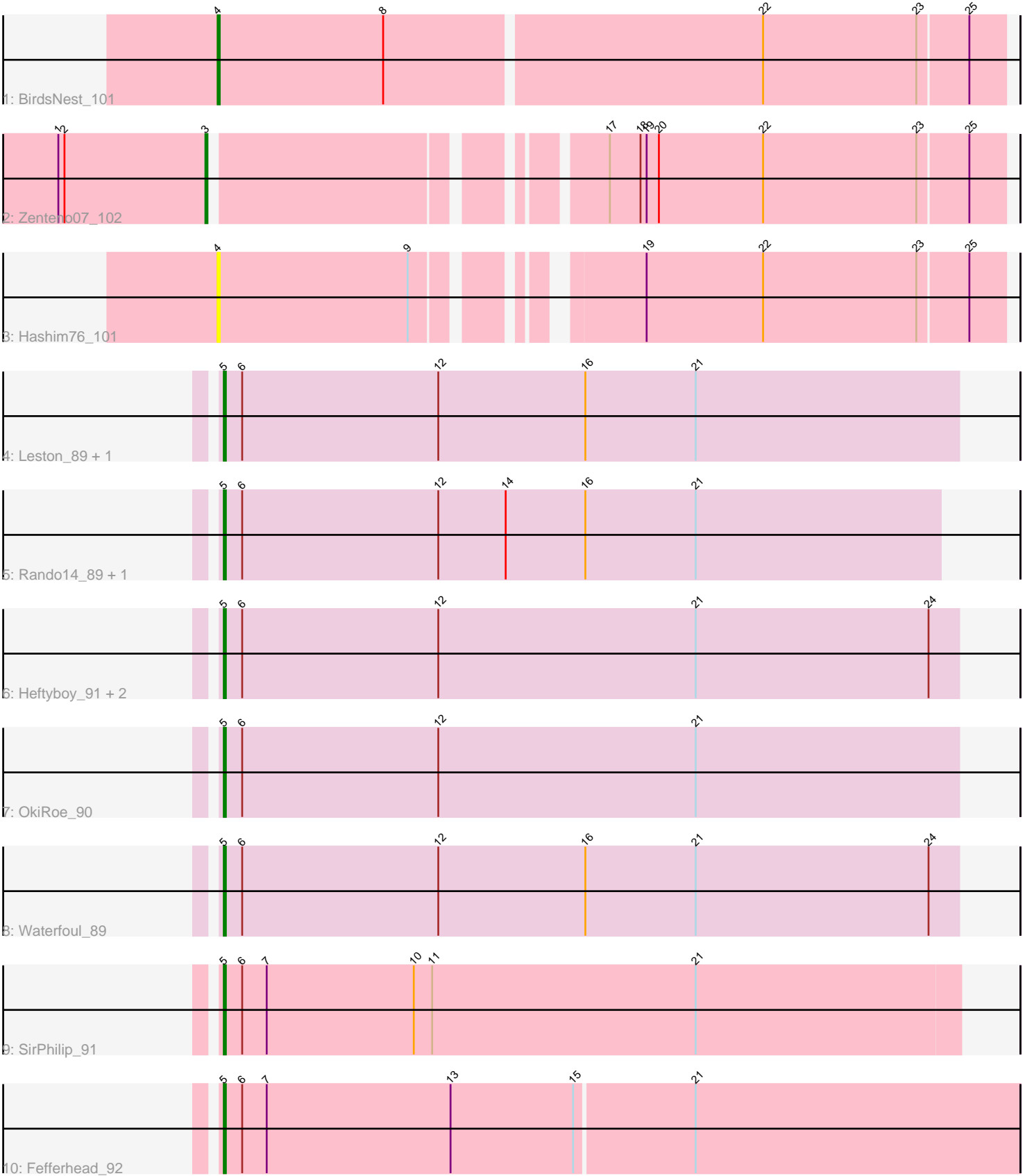


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 87187 Report

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

Pham number 87187 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BirdsNest\_101
- Track 2 : Zenteno07\_102
- Track 3 : Hashim76\_101
- Track 4 : Leston\_89, Miryou\_93
- Track 5 : Rando14\_89, Omnicron\_92
- Track 6 : Heftyboy\_91, Gengar\_89, SoSeph\_91
- Track 7 : OkiRoe\_90
- Track 8 : Waterfoul\_89
- Track 9 : SirPhilip\_91
- Track 10 : Fefferhead\_92

### ***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 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Fefferhead\_92, Gengar\_89, Heftyboy\_91, Leston\_89, Miryou\_93, OkiRoe\_90, Omnicron\_92, Rando14\_89, SirPhilip\_91, SoSeph\_91, Waterfoul\_89,

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

- 

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

- BirdsNest\_101, Hashim76\_101, Zenteno07\_102,

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

Start 3:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zenteno07\_102 (B13),

#### Start 4:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest\_101 (B13), Hashim76\_101 (B13),

#### Start 5:

- Found in 11 of 14 ( 78.6% ) of genes in pham
- Manual Annotations of this start: 10 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fefferhead\_92 (K6), Gengar\_89 (K5), Heftyboy\_91 (K5), Leston\_89 (K5), Miryou\_93 (K5), OkiRoe\_90 (K5), Omnicron\_92 (K5), Rando14\_89 (K5), SirPhilip\_91 (K6), SoSeph\_91 (K5), Waterfoul\_89 (K5),

### Summary by clusters:

There are 3 clusters represented in this pham: B13, K5, K6,

Info for manual annotations of cluster B13:

- Start number 3 was manually annotated 1 time for cluster B13.
- Start number 4 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster K5:

- Start number 5 was manually annotated 8 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 5 was manually annotated 2 times for cluster K6.

### Gene Information:

Gene: BirdsNest\_101 Start: 68832, Stop: 68455, Start Num: 4

Candidate Starts for BirdsNest\_101:

(Start: 4 @68832 has 1 MA's), (8, 68751), (22, 68571), (23, 68496), (25, 68472),

Gene: Fefferhead\_92 Start: 58274, Stop: 58660, Start Num: 5

Candidate Starts for Fefferhead\_92:

(Start: 5 @58274 has 10 MA's), (6, 58283), (7, 58295), (13, 58385), (15, 58445), (21, 58502),

Gene: Gengar\_89 Start: 58044, Stop: 58403, Start Num: 5

Candidate Starts for Gengar\_89:

(Start: 5 @58044 has 10 MA's), (6, 58053), (12, 58149), (21, 58275), (24, 58389),

Gene: Hashim76\_101 Start: 68293, Stop: 67940, Start Num: 4

Candidate Starts for Hashim76\_101:

(Start: 4 @68293 has 1 MA's), (9, 68200), (19, 68113), (22, 68056), (23, 67981), (25, 67957),

Gene: Heftyboy\_91 Start: 58813, Stop: 59172, Start Num: 5

Candidate Starts for Heftyboy\_91:

(Start: 5 @58813 has 10 MA's), (6, 58822), (12, 58918), (21, 59044), (24, 59158),

Gene: Leston\_89 Start: 57994, Stop: 58353, Start Num: 5

Candidate Starts for Leston\_89:

(Start: 5 @57994 has 10 MA's), (6, 58003), (12, 58099), (16, 58171), (21, 58225),

Gene: Miryou\_93 Start: 60054, Stop: 60413, Start Num: 5

Candidate Starts for Miryou\_93:

(Start: 5 @60054 has 10 MA's), (6, 60063), (12, 60159), (16, 60231), (21, 60285),

Gene: OkiRoe\_90 Start: 59007, Stop: 59366, Start Num: 5

Candidate Starts for OkiRoe\_90:

(Start: 5 @59007 has 10 MA's), (6, 59016), (12, 59112), (21, 59238),

Gene: Omnicron\_92 Start: 59184, Stop: 59534, Start Num: 5

Candidate Starts for Omnicron\_92:

(Start: 5 @59184 has 10 MA's), (6, 59193), (12, 59289), (14, 59322), (16, 59361), (21, 59415),

Gene: Rando14\_89 Start: 57595, Stop: 57945, Start Num: 5

Candidate Starts for Rando14\_89:

(Start: 5 @57595 has 10 MA's), (6, 57604), (12, 57700), (14, 57733), (16, 57772), (21, 57826),

Gene: SirPhilip\_91 Start: 57845, Stop: 58204, Start Num: 5

Candidate Starts for SirPhilip\_91:

(Start: 5 @57845 has 10 MA's), (6, 57854), (7, 57866), (10, 57938), (11, 57947), (21, 58076),

Gene: SoSeph\_91 Start: 58813, Stop: 59172, Start Num: 5

Candidate Starts for SoSeph\_91:

(Start: 5 @58813 has 10 MA's), (6, 58822), (12, 58918), (21, 59044), (24, 59158),

Gene: Waterfoul\_89 Start: 57662, Stop: 58021, Start Num: 5

Candidate Starts for Waterfoul\_89:

(Start: 5 @57662 has 10 MA's), (6, 57671), (12, 57767), (16, 57839), (21, 57893), (24, 58007),

Gene: Zenteno07\_102 Start: 68588, Stop: 68229, Start Num: 3

Candidate Starts for Zenteno07\_102:

(1, 68660), (2, 68657), (Start: 3 @68588 has 1 MA's), (17, 68420), (18, 68405), (19, 68402), (20, 68396), (22, 68345), (23, 68270), (25, 68246),