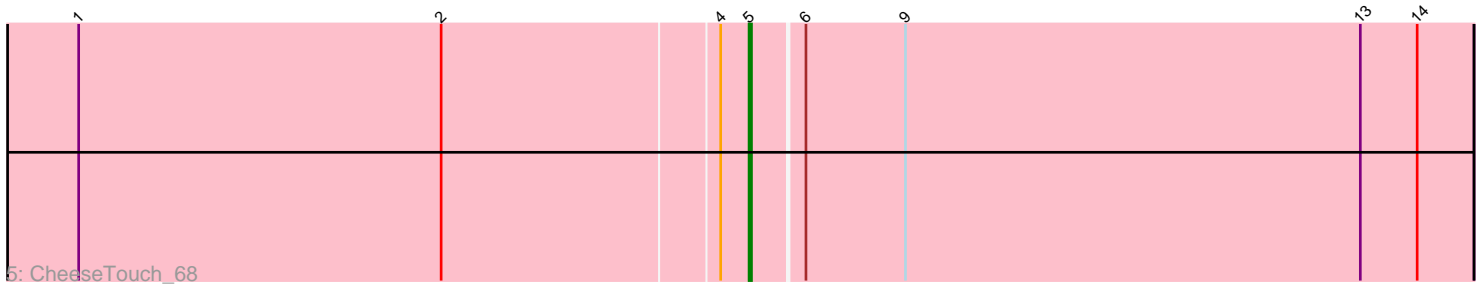
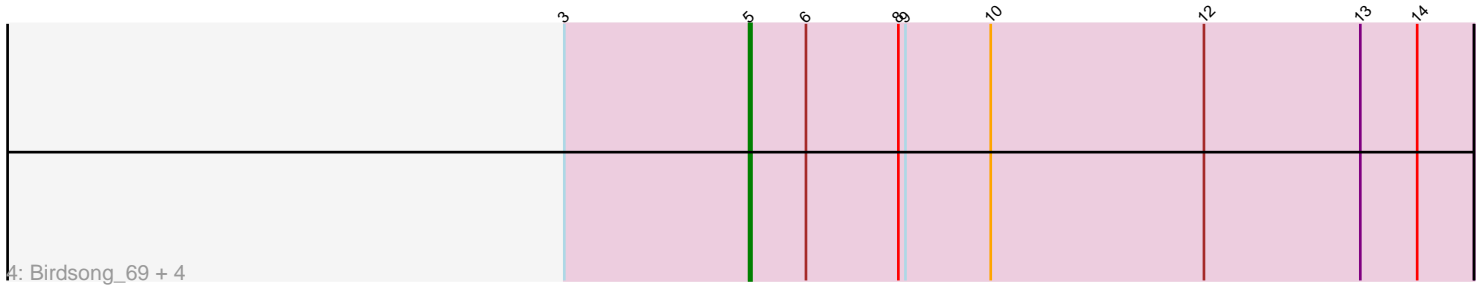
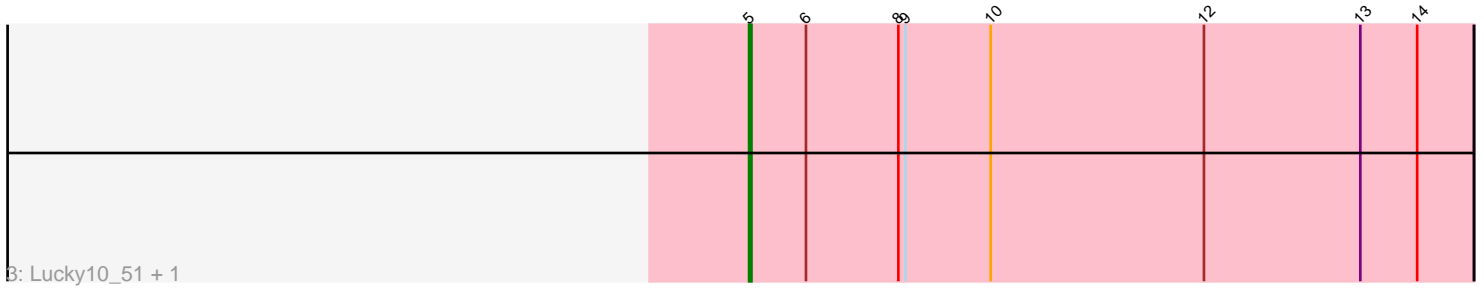
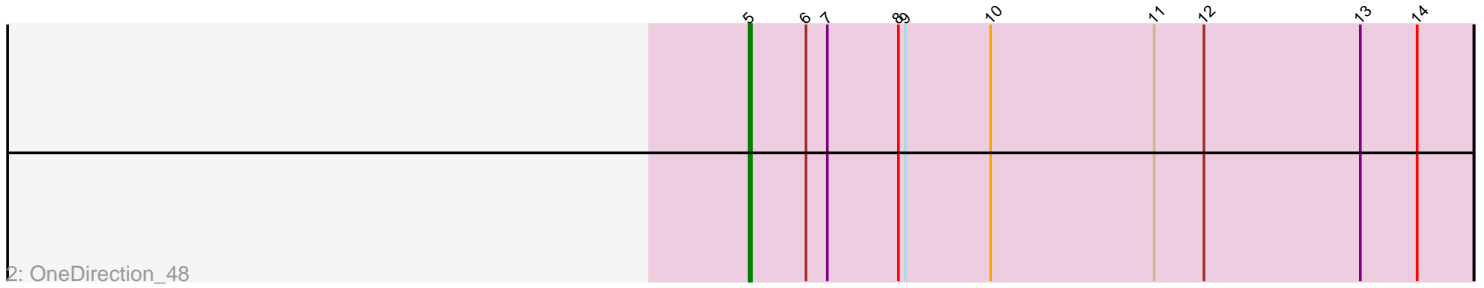
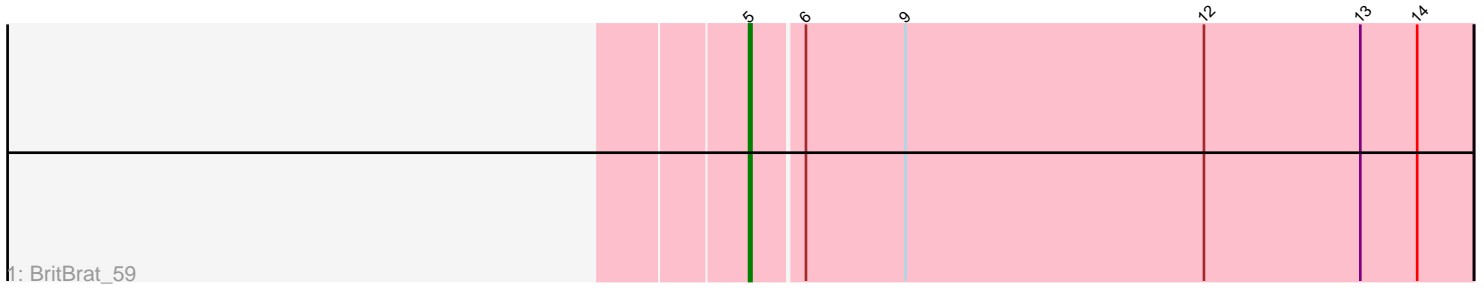


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 164105 Report

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

Pham number 164105 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : BritBrat\_59
- Track 2 : OneDirection\_48
- Track 3 : Lucky10\_51, Holliday\_75
- Track 4 : Birdsong\_69, Frickyeah\_76, Whitney\_71, Budski\_76, Asapag\_70
- Track 5 : CheeseTouch\_68

### ***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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag\_70, Birdsong\_69, BritBrat\_59, Budski\_76, CheeseTouch\_68, Frickyeah\_76, Holliday\_75, Lucky10\_51, OneDirection\_48, Whitney\_71,

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

- 

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

- 

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

Start 5:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asapag\_70 (DN1), Birdsong\_69 (DN), BritBrat\_59 (CY2), Budski\_76 (DN), CheeseTouch\_68 (DN1), Frickyeah\_76 (DN1), Holliday\_75 (DN1), Lucky10\_51 (DH), OneDirection\_48 (CZ6), Whitney\_71 (DN1),

### **Summary by clusters:**

There are 5 clusters represented in this pham: DN, CY2, CZ6, DN1, DH,

Info for manual annotations of cluster CY2:

- Start number 5 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ6:

- Start number 5 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DH:

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

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster DN1:

- Start number 5 was manually annotated 4 times for cluster DN1.

### ***Gene Information:***

Gene: Asapag\_70 Start: 42360, Stop: 42665, Start Num: 5

Candidate Starts for Asapag\_70:

(3, 42282), (Start: 5 @42360 has 9 MA's), (6, 42384), (8, 42423), (9, 42426), (10, 42462), (12, 42552), (13, 42618), (14, 42642),

Gene: Birdsong\_69 Start: 42096, Stop: 42401, Start Num: 5

Candidate Starts for Birdsong\_69:

(3, 42018), (Start: 5 @42096 has 9 MA's), (6, 42120), (8, 42159), (9, 42162), (10, 42198), (12, 42288), (13, 42354), (14, 42378),

Gene: BritBrat\_59 Start: 40775, Stop: 41077, Start Num: 5

Candidate Starts for BritBrat\_59:

(Start: 5 @40775 has 9 MA's), (6, 40796), (9, 40838), (12, 40964), (13, 41030), (14, 41054),

Gene: Budski\_76 Start: 44217, Stop: 44522, Start Num: 5

Candidate Starts for Budski\_76:

(3, 44139), (Start: 5 @44217 has 9 MA's), (6, 44241), (8, 44280), (9, 44283), (10, 44319), (12, 44409), (13, 44475), (14, 44499),

Gene: CheeseTouch\_68 Start: 36876, Stop: 37178, Start Num: 5

Candidate Starts for CheeseTouch\_68:

(1, 36597), (2, 36750), (4, 36864), (Start: 5 @36876 has 9 MA's), (6, 36897), (9, 36939), (13, 37131), (14, 37155),

Gene: Frickyeah\_76 Start: 43495, Stop: 43800, Start Num: 5

Candidate Starts for Frickyeah\_76:

(3, 43417), (Start: 5 @43495 has 9 MA's), (6, 43519), (8, 43558), (9, 43561), (10, 43597), (12, 43687), (13, 43753), (14, 43777),

Gene: Holliday\_75 Start: 46470, Stop: 46775, Start Num: 5

Candidate Starts for Holliday\_75:

(Start: 5 @46470 has 9 MA's), (6, 46494), (8, 46533), (9, 46536), (10, 46572), (12, 46662), (13, 46728), (14, 46752),

Gene: Lucky10\_51 Start: 34880, Stop: 35185, Start Num: 5

Candidate Starts for Lucky10\_51:

(Start: 5 @34880 has 9 MA's), (6, 34904), (8, 34943), (9, 34946), (10, 34982), (12, 35072), (13, 35138), (14, 35162),

Gene: OneDirection\_48 Start: 31802, Stop: 32107, Start Num: 5

Candidate Starts for OneDirection\_48:

(Start: 5 @31802 has 9 MA's), (6, 31826), (7, 31835), (8, 31865), (9, 31868), (10, 31904), (11, 31973), (12, 31994), (13, 32060), (14, 32084),

Gene: Whitney\_71 Start: 44130, Stop: 44435, Start Num: 5

Candidate Starts for Whitney\_71:

(3, 44052), (Start: 5 @44130 has 9 MA's), (6, 44154), (8, 44193), (9, 44196), (10, 44232), (12, 44322), (13, 44388), (14, 44412),