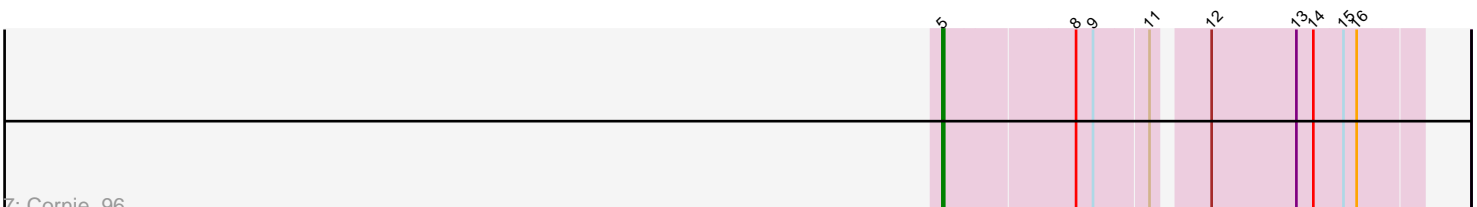
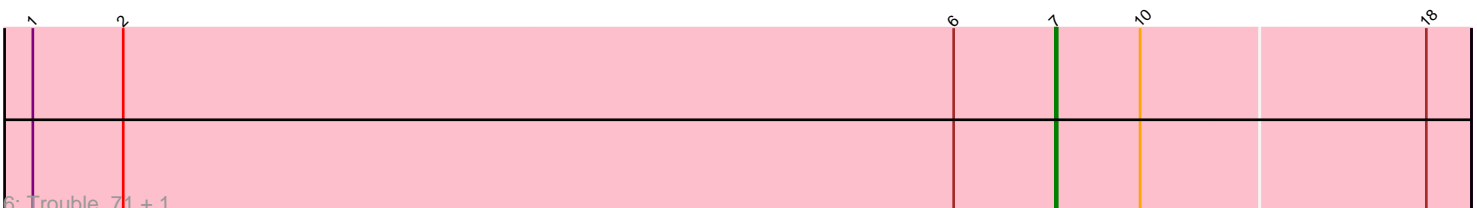
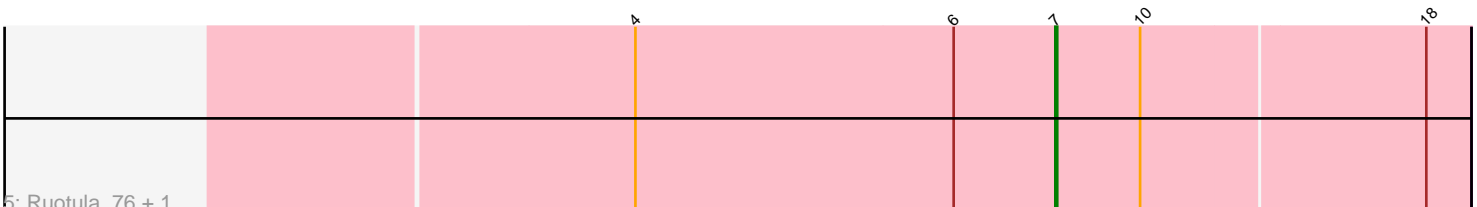
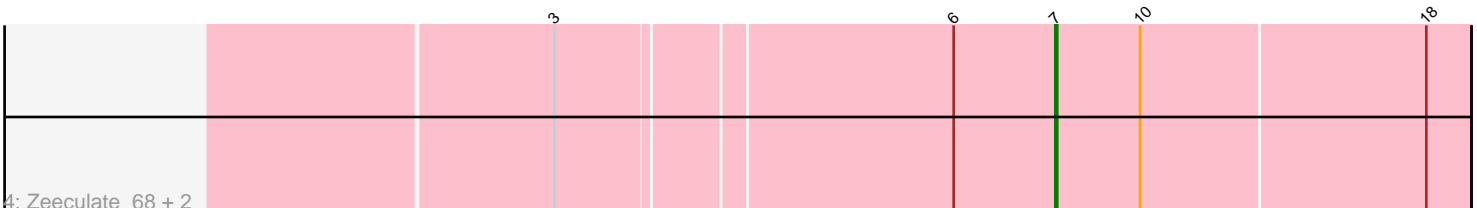
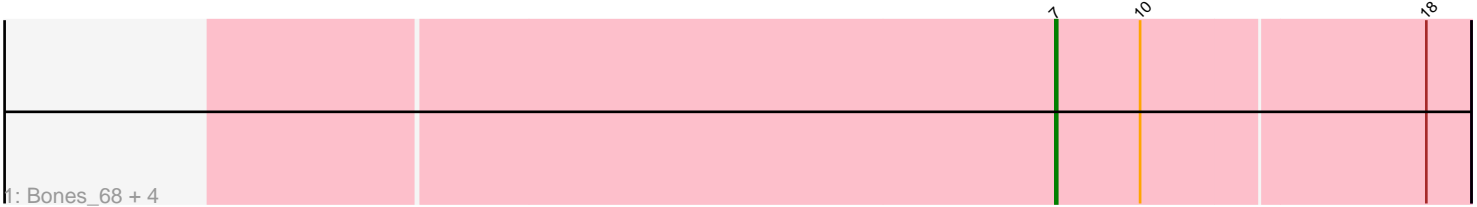


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 106671 Report

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

Pham number 106671 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Bones\_68, Hope4ever\_73, Magnito\_71, Turj99\_68, Fushigi\_66
- Track 2 : DD5\_70, Lockley\_69
- Track 3 : Adahisdi\_68
- Track 4 : Zeeculate\_68, Seanderson\_72, Eyeball\_71
- Track 5 : Ruotula\_76, Petruchio\_72
- Track 6 : Trouble\_71, Hami1\_61
- Track 7 : Cornie\_96

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

The start number called the most often in the published annotations is 7, it was called in 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adahisdi\_68, Bones\_68, DD5\_70, Eyeball\_71, Fushigi\_66, Hami1\_61, Hope4ever\_73, Lockley\_69, Magnito\_71, Petruchio\_72, Ruotula\_76, Seanderson\_72, Trouble\_71, Turj99\_68, Zeeculate\_68,

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

- 

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

- Cornie\_96,

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

Start 5:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cornie\_96 (F5),

Start 7:

- Found in 15 of 16 ( 93.8% ) of genes in pham

- Manual Annotations of this start: 14 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adahisdi\_68 (A1), Bones\_68 (A1), DD5\_70 (A1), Eyeball\_71 (A1), Fushigi\_66 (A1), Hami1\_61 (A1), Hope4ever\_73 (A1), Lockley\_69 (A1), Magnito\_71 (A1), Petruchio\_72 (A1), Ruotula\_76 (A1), Seanderson\_72 (A1), Trouble\_71 (A1), Turj99\_68 (A1), Zeeculate\_68 (A1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A1, F5,

Info for manual annotations of cluster A1:

- Start number 7 was manually annotated 14 times for cluster A1.

Info for manual annotations of cluster F5:

- Start number 5 was manually annotated 1 time for cluster F5.

### **Gene Information:**

Gene: Adahisdi\_68 Start: 45011, Stop: 44796, Start Num: 7

Candidate Starts for Adahisdi\_68:

(6, 45065), (Start: 7 @45011 has 14 MA's), (10, 44966), (17, 44849), (18, 44819),

Gene: Bones\_68 Start: 45170, Stop: 44955, Start Num: 7

Candidate Starts for Bones\_68:

(Start: 7 @45170 has 14 MA's), (10, 45125), (18, 44978),

Gene: Cornie\_96 Start: 53369, Stop: 53602, Start Num: 5

Candidate Starts for Cornie\_96:

(Start: 5 @53369 has 1 MA's), (8, 53435), (9, 53444), (11, 53471), (12, 53495), (13, 53540), (14, 53549), (15, 53564), (16, 53570),

Gene: DD5\_70 Start: 45296, Stop: 45081, Start Num: 7

Candidate Starts for DD5\_70:

(6, 45350), (Start: 7 @45296 has 14 MA's), (10, 45251), (18, 45104),

Gene: Eyeball\_71 Start: 45078, Stop: 44863, Start Num: 7

Candidate Starts for Eyeball\_71:

(3, 45330), (6, 45132), (Start: 7 @45078 has 14 MA's), (10, 45033), (18, 44886),

Gene: Fushigi\_66 Start: 42122, Stop: 41907, Start Num: 7

Candidate Starts for Fushigi\_66:

(Start: 7 @42122 has 14 MA's), (10, 42077), (18, 41930),

Gene: Hami1\_61 Start: 39704, Stop: 39489, Start Num: 7

Candidate Starts for Hami1\_61:

(1, 40244), (2, 40196), (6, 39758), (Start: 7 @39704 has 14 MA's), (10, 39659), (18, 39512),

Gene: Hope4ever\_73 Start: 45306, Stop: 45091, Start Num: 7

Candidate Starts for Hope4ever\_73:

(Start: 7 @45306 has 14 MA's), (10, 45261), (18, 45114),

Gene: Lockley\_69 Start: 44458, Stop: 44243, Start Num: 7  
Candidate Starts for Lockley\_69:  
(6, 44512), (Start: 7 @44458 has 14 MA's), (10, 44413), (18, 44266),

Gene: Magnito\_71 Start: 44415, Stop: 44200, Start Num: 7  
Candidate Starts for Magnito\_71:  
(Start: 7 @44415 has 14 MA's), (10, 44370), (18, 44223),

Gene: Petruchio\_72 Start: 44260, Stop: 44045, Start Num: 7  
Candidate Starts for Petruchio\_72:  
(4, 44482), (6, 44314), (Start: 7 @44260 has 14 MA's), (10, 44215), (18, 44068),

Gene: Ruotula\_76 Start: 46838, Stop: 46623, Start Num: 7  
Candidate Starts for Ruotula\_76:  
(4, 47060), (6, 46892), (Start: 7 @46838 has 14 MA's), (10, 46793), (18, 46646),

Gene: Seanderson\_72 Start: 46808, Stop: 46593, Start Num: 7  
Candidate Starts for Seanderson\_72:  
(3, 47060), (6, 46862), (Start: 7 @46808 has 14 MA's), (10, 46763), (18, 46616),

Gene: Trouble\_71 Start: 45224, Stop: 45009, Start Num: 7  
Candidate Starts for Trouble\_71:  
(1, 45764), (2, 45716), (6, 45278), (Start: 7 @45224 has 14 MA's), (10, 45179), (18, 45032),

Gene: Turj99\_68 Start: 45026, Stop: 44811, Start Num: 7  
Candidate Starts for Turj99\_68:  
(Start: 7 @45026 has 14 MA's), (10, 44981), (18, 44834),

Gene: Zeeculate\_68 Start: 45360, Stop: 45145, Start Num: 7  
Candidate Starts for Zeeculate\_68:  
(3, 45612), (6, 45414), (Start: 7 @45360 has 14 MA's), (10, 45315), (18, 45168),