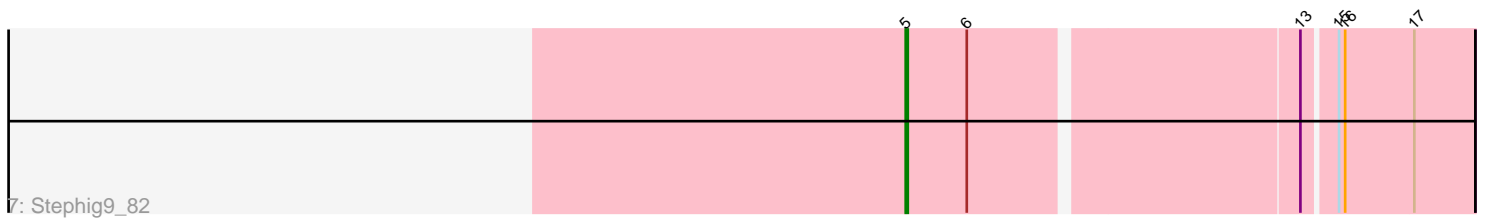
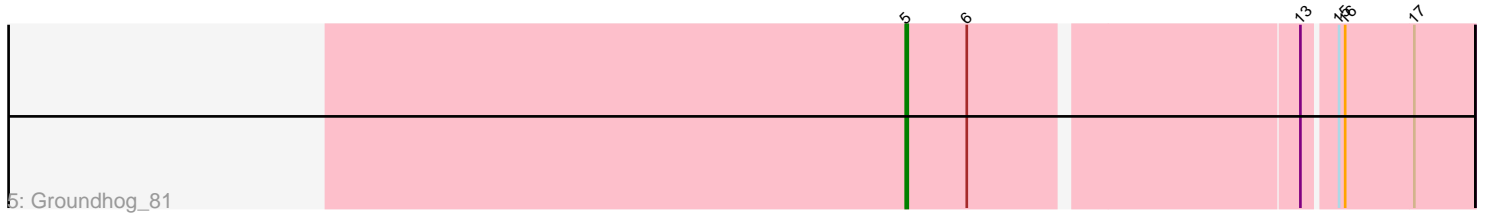
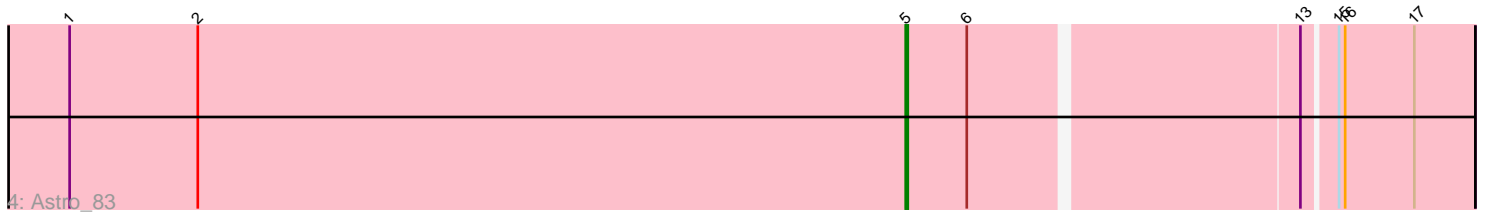
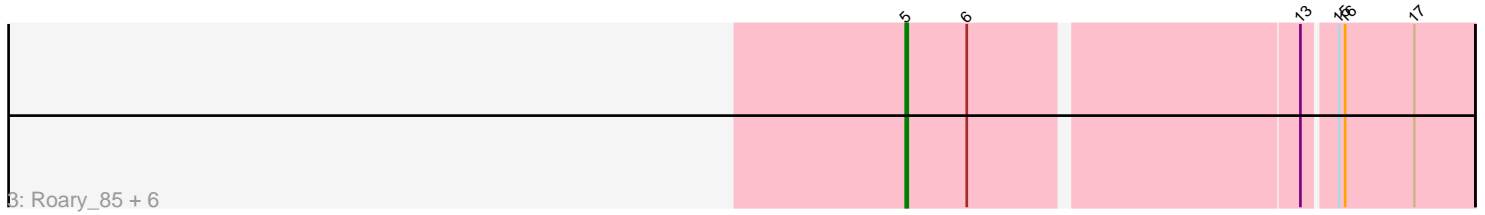
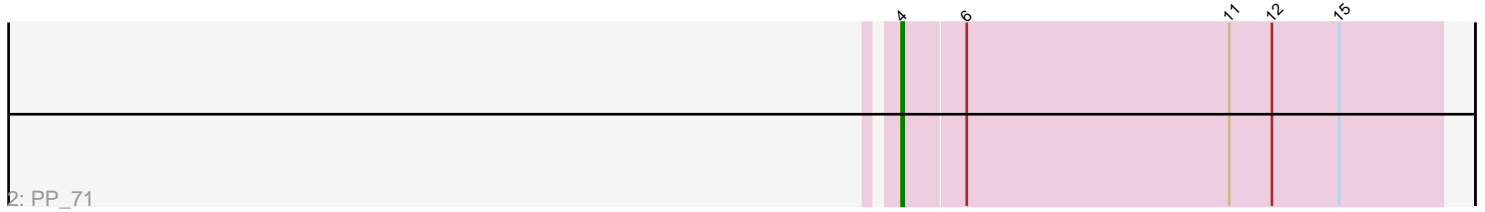
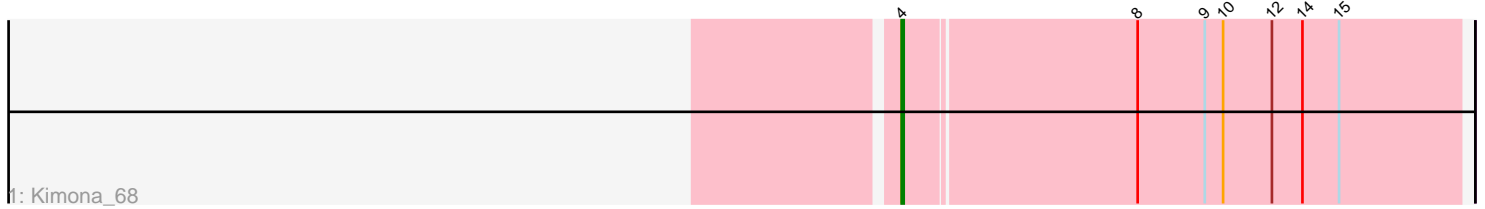


# Pham 170442



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 170442 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170442 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Kimona\_68
- Track 2 : PP\_71
- Track 3 : Roary\_85, Dixon\_82, NearlyHeadless\_84, Smeadley\_83, Expelliarmus\_80, Saintus\_79, Danforth\_84
- Track 4 : Astro\_83
- Track 5 : Groundhog\_81
- Track 6 : Phillis\_80
- Track 7 : Stephig9\_82

### ***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 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Astro\_83, Danforth\_84, Dixon\_82, Expelliarmus\_80, Groundhog\_81, NearlyHeadless\_84, Phillis\_80, Roary\_85, Saintus\_79, Smeadley\_83, Stephig9\_82,

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

- 

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

- Kimona\_68, PP\_71,

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

Start 4:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimona\_68 (A19), PP\_71 (A7),

Start 5:

- Found in 11 of 13 ( 84.6% ) of genes in pham

- Manual Annotations of this start: 11 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro\_83 (A8), Danforth\_84 (A8), Dixon\_82 (A8), Expelliarmus\_80 (A8), Groundhog\_81 (A8), NearlyHeadless\_84 (A8), Phillis\_80 (A8), Roary\_85 (A8), Saintus\_79 (A8), Smeadley\_83 (A8), Stephig9\_82 (A8),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A8, A19, A7,

Info for manual annotations of cluster A19:

- Start number 4 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A7:

- Start number 4 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:

- Start number 5 was manually annotated 11 times for cluster A8.

### **Gene Information:**

Gene: Astro\_83 Start: 45517, Stop: 45254, Start Num: 5

Candidate Starts for Astro\_83:

(1, 45928), (2, 45865), (Start: 5 @45517 has 11 MA's), (6, 45487), (13, 45334), (15, 45319), (16, 45316), (17, 45283),

Gene: Danforth\_84 Start: 45594, Stop: 45331, Start Num: 5

Candidate Starts for Danforth\_84:

(Start: 5 @45594 has 11 MA's), (6, 45564), (13, 45411), (15, 45396), (16, 45393), (17, 45360),

Gene: Dixon\_82 Start: 45076, Stop: 44813, Start Num: 5

Candidate Starts for Dixon\_82:

(Start: 5 @45076 has 11 MA's), (6, 45046), (13, 44893), (15, 44878), (16, 44875), (17, 44842),

Gene: Expelliarmus\_80 Start: 45290, Stop: 45027, Start Num: 5

Candidate Starts for Expelliarmus\_80:

(Start: 5 @45290 has 11 MA's), (6, 45260), (13, 45107), (15, 45092), (16, 45089), (17, 45056),

Gene: Groundhog\_81 Start: 45346, Stop: 45083, Start Num: 5

Candidate Starts for Groundhog\_81:

(Start: 5 @45346 has 11 MA's), (6, 45316), (13, 45163), (15, 45148), (16, 45145), (17, 45112),

Gene: Kimona\_68 Start: 42650, Stop: 42381, Start Num: 4

Candidate Starts for Kimona\_68:

(Start: 4 @42650 has 2 MA's), (8, 42539), (9, 42506), (10, 42497), (12, 42473), (14, 42458), (15, 42440),

Gene: NearlyHeadless\_84 Start: 45360, Stop: 45097, Start Num: 5

Candidate Starts for NearlyHeadless\_84:

(Start: 5 @45360 has 11 MA's), (6, 45330), (13, 45177), (15, 45162), (16, 45159), (17, 45126),

Gene: PP\_71 Start: 48071, Stop: 47808, Start Num: 4

Candidate Starts for PP\_71:

(Start: 4 @48071 has 2 MA's), (6, 48041), (11, 47912), (12, 47891), (15, 47858),

Gene: Phillis\_80 Start: 44378, Stop: 44115, Start Num: 5

Candidate Starts for Phillis\_80:

(3, 44411), (Start: 5 @44378 has 11 MA's), (7, 44276), (13, 44195), (15, 44180),

Gene: Roary\_85 Start: 45548, Stop: 45285, Start Num: 5

Candidate Starts for Roary\_85:

(Start: 5 @45548 has 11 MA's), (6, 45518), (13, 45365), (15, 45350), (16, 45347), (17, 45314),

Gene: Saintus\_79 Start: 42196, Stop: 41933, Start Num: 5

Candidate Starts for Saintus\_79:

(Start: 5 @42196 has 11 MA's), (6, 42166), (13, 42013), (15, 41998), (16, 41995), (17, 41962),

Gene: Smeadley\_83 Start: 45412, Stop: 45149, Start Num: 5

Candidate Starts for Smeadley\_83:

(Start: 5 @45412 has 11 MA's), (6, 45382), (13, 45229), (15, 45214), (16, 45211), (17, 45178),

Gene: Stephig9\_82 Start: 45351, Stop: 45088, Start Num: 5

Candidate Starts for Stephig9\_82:

(Start: 5 @45351 has 11 MA's), (6, 45321), (13, 45168), (15, 45153), (16, 45150), (17, 45117),