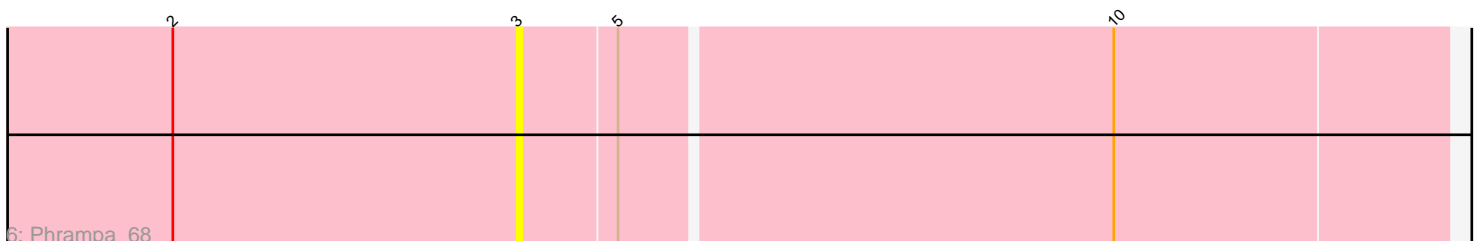
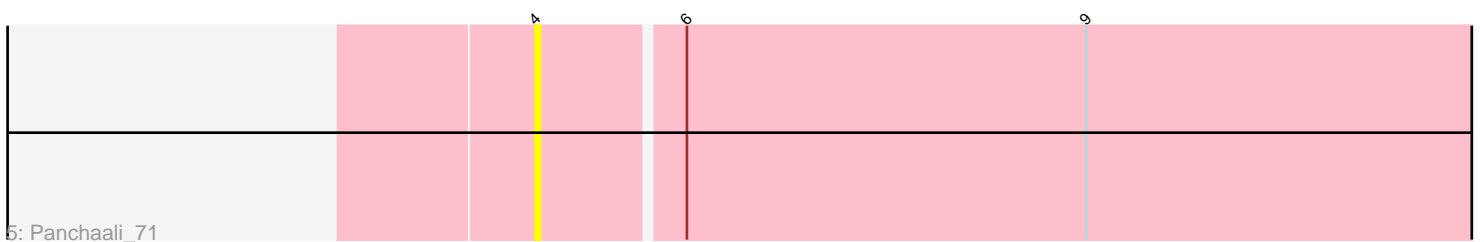
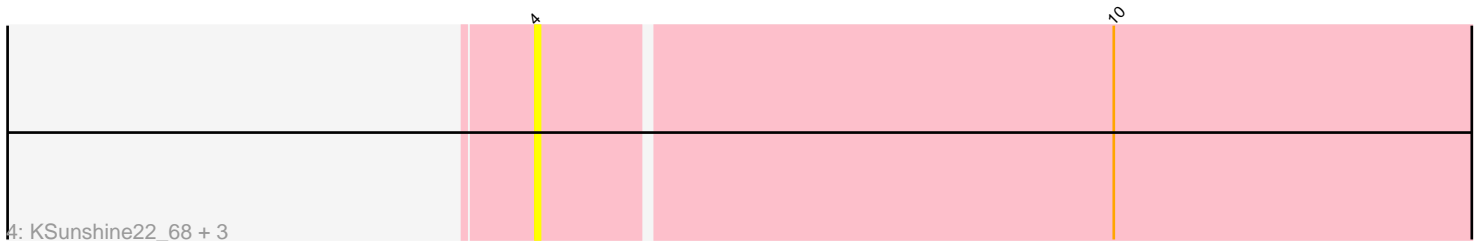
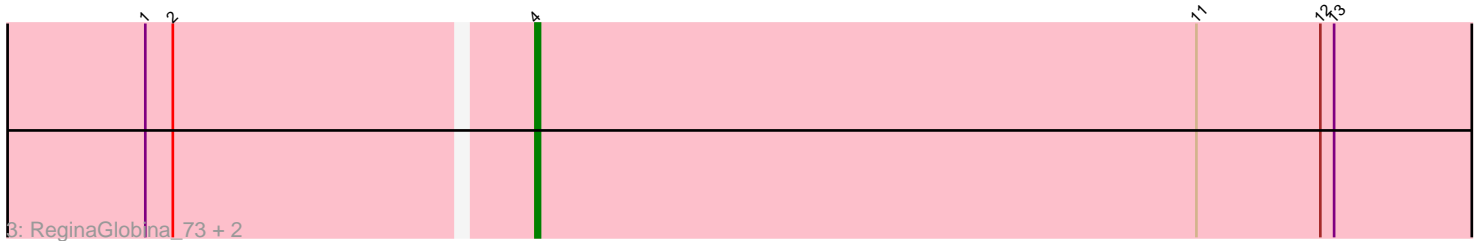
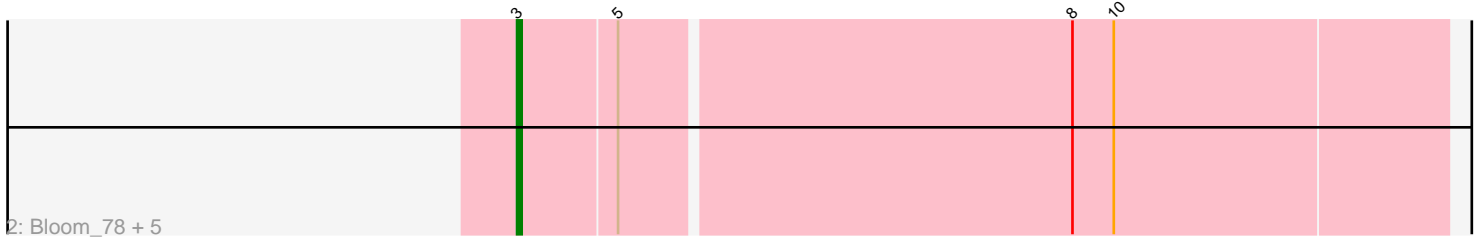
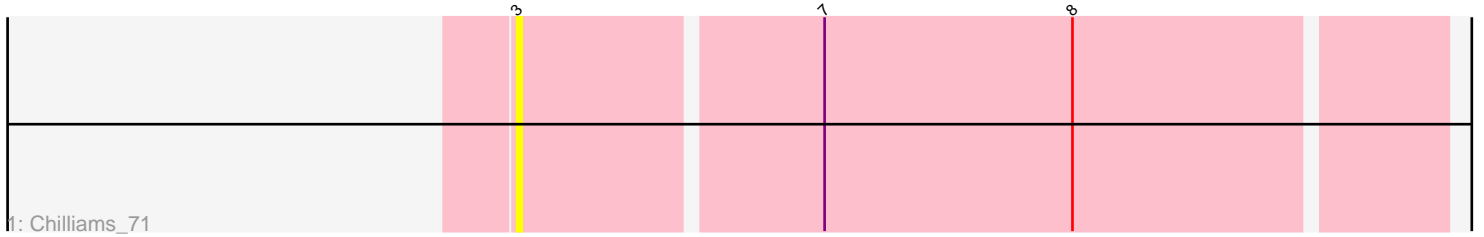


Pham 224965



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 224965 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224965 has 16 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Chilliams\_71
- Track 2 : Bloom\_78, Talia1610\_74, GoldenEssence\_63, Racecar\_75, Mimi\_74, Patbob\_74
- Track 3 : ReginaGlobina\_73, LeoJr\_73, Atuin\_68
- Track 4 : KSunshine22\_68, Ellewin\_65, WaddleDee\_67, DunneganBoMo\_67
- Track 5 : Panchaali\_71
- Track 6 : Phrampa\_68

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

The start number called the most often in the published annotations is 3, it was called in 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom\_78, Chilliams\_71, GoldenEssence\_63, Mimi\_74, Patbob\_74, Phrampa\_68, Racecar\_75, Talia1610\_74,

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

- 

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

- Atuin\_68, DunneganBoMo\_67, Ellewin\_65, KSunshine22\_68, LeoJr\_73, Panchaali\_71, ReginaGlobina\_73, WaddleDee\_67,

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

Start 3:

- Found in 8 of 16 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 3 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom\_78 (FC), Chilliams\_71 (FC), GoldenEssence\_63 (FC), Mimi\_74 (FC), Patbob\_74 (FC), Phrampa\_68 (FC), Racecar\_75 (FC), Talia1610\_74 (FC),

Start 4:

- Found in 8 of 16 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin\_68 (FC), DunneganBoMo\_67 (FC), Ellewin\_65 (FC), KSunshine22\_68 (FC), LeoJr\_73 (FC), Panchaali\_71 (FC), ReginaGlobina\_73 (FC), WaddleDee\_67 (FC),

**Summary by clusters:**

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

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

**Gene Information:**

Gene: Atuin\_68 Start: 30534, Stop: 30746, Start Num: 4

Candidate Starts for Atuin\_68:

(1, 30453), (2, 30459), (Start: 4 @30534 has 1 MA's), (11, 30678), (12, 30705), (13, 30708),

Gene: Bloom\_78 Start: 33172, Stop: 33369, Start Num: 3

Candidate Starts for Bloom\_78:

(Start: 3 @33172 has 3 MA's), (5, 33193), (8, 33289), (10, 33298),

Gene: Chilliams\_71 Start: 33558, Stop: 33752, Start Num: 3

Candidate Starts for Chilliams\_71:

(Start: 3 @33558 has 3 MA's), (7, 33621), (8, 33675),

Gene: DunneganBoMo\_67 Start: 27307, Stop: 27516, Start Num: 4

Candidate Starts for DunneganBoMo\_67:

(Start: 4 @27307 has 1 MA's), (10, 27430),

Gene: Ellewin\_65 Start: 27034, Stop: 27243, Start Num: 4

Candidate Starts for Ellewin\_65:

(Start: 4 @27034 has 1 MA's), (10, 27157),

Gene: GoldenEssence\_63 Start: 26965, Stop: 27162, Start Num: 3

Candidate Starts for GoldenEssence\_63:

(Start: 3 @26965 has 3 MA's), (5, 26986), (8, 27082), (10, 27091),

Gene: KSunshine22\_68 Start: 28574, Stop: 28783, Start Num: 4

Candidate Starts for KSunshine22\_68:

(Start: 4 @28574 has 1 MA's), (10, 28697),

Gene: LeoJr\_73 Start: 30674, Stop: 30886, Start Num: 4

Candidate Starts for LeoJr\_73:

(1, 30593), (2, 30599), (Start: 4 @30674 has 1 MA's), (11, 30818), (12, 30845), (13, 30848),

Gene: Mimi\_74 Start: 32519, Stop: 32716, Start Num: 3

Candidate Starts for Mimi\_74:

(Start: 3 @32519 has 3 MA's), (5, 32540), (8, 32636), (10, 32645),

Gene: Panchaali\_71 Start: 28160, Stop: 28369, Start Num: 4

Candidate Starts for Panchaali\_71:

(Start: 4 @28160 has 1 MA's), (6, 28190), (9, 28277),

Gene: Patbob\_74 Start: 32812, Stop: 33009, Start Num: 3

Candidate Starts for Patbob\_74:

(Start: 3 @32812 has 3 MA's), (5, 32833), (8, 32929), (10, 32938),

Gene: Phrampa\_68 Start: 29838, Stop: 30035, Start Num: 3

Candidate Starts for Phrampa\_68:

(2, 29763), (Start: 3 @29838 has 3 MA's), (5, 29859), (10, 29964),

Gene: Racecar\_75 Start: 33172, Stop: 33369, Start Num: 3

Candidate Starts for Racecar\_75:

(Start: 3 @33172 has 3 MA's), (5, 33193), (8, 33289), (10, 33298),

Gene: ReginaGlobina\_73 Start: 31231, Stop: 31443, Start Num: 4

Candidate Starts for ReginaGlobina\_73:

(1, 31150), (2, 31156), (Start: 4 @31231 has 1 MA's), (11, 31375), (12, 31402), (13, 31405),

Gene: Talia1610\_74 Start: 32537, Stop: 32734, Start Num: 3

Candidate Starts for Talia1610\_74:

(Start: 3 @32537 has 3 MA's), (5, 32558), (8, 32654), (10, 32663),

Gene: WaddleDee\_67 Start: 27159, Stop: 27368, Start Num: 4

Candidate Starts for WaddleDee\_67:

(Start: 4 @27159 has 1 MA's), (10, 27282),