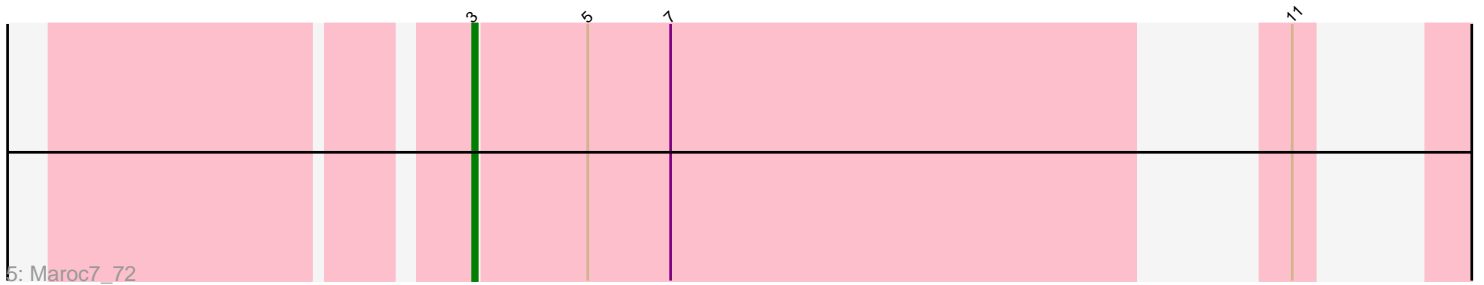
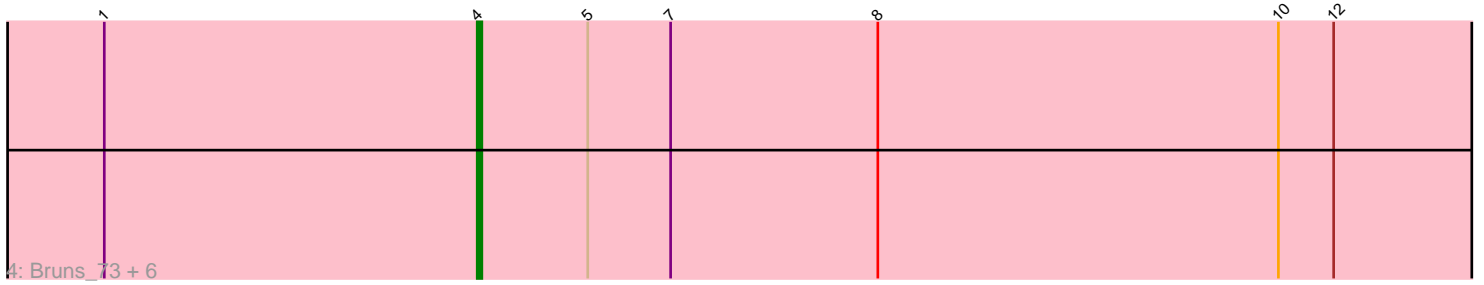
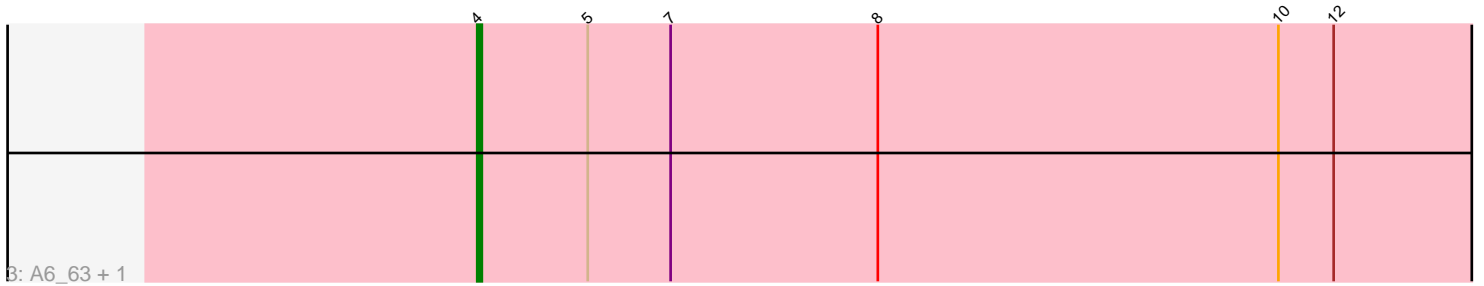
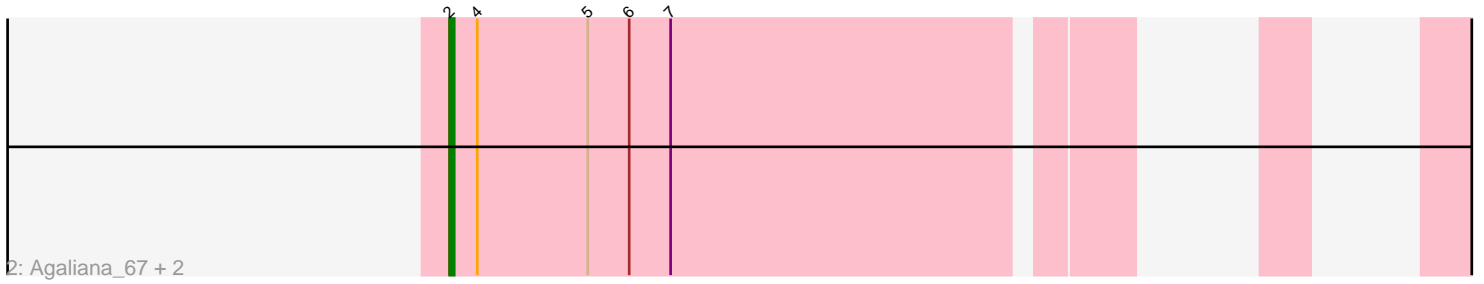
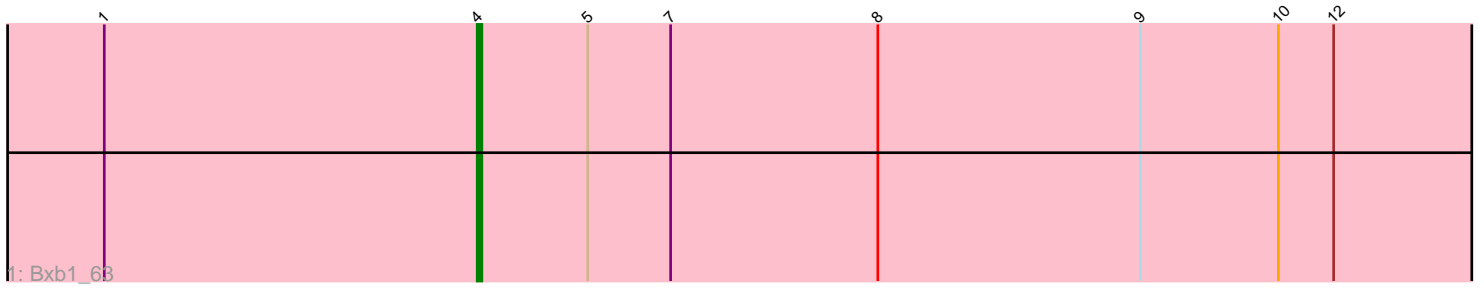


Pham 4772



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 4772 Report

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

Pham number 4772 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Bxb1\_63
- Track 2 : Agaliana\_67, Francis47\_71, PacerPaul\_74
- Track 3 : A6\_63, BK1\_63
- Track 4 : Bruns\_73, SkiPole\_79, DreamCatcher\_74, Big3\_71, SwissCheese\_74, MaryBeth\_68, MetalQZJ\_67
- Track 5 : Maroc7\_72

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A6\_63, BK1\_63, Big3\_71, Bruns\_73, Bxb1\_63, DreamCatcher\_74, MaryBeth\_68, MetalQZJ\_67, SkiPole\_79, SwissCheese\_74,

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

- Agaliana\_67, Francis47\_71, PacerPaul\_74,

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

- Maroc7\_72,

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

Start 2:

- Found in 3 of 14 ( 21.4% ) 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: Agaliana\_67 (A1), Francis47\_71 (A1), PacerPaul\_74 (A1),

Start 3:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 13

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Maroc7\_72 (A1),

Start 4:

- Found in 13 of 14 ( 92.9% ) of genes in pham
- Manual Annotations of this start: 10 of 13
- Called 76.9% of time when present
- Phage (with cluster) where this start called: A6\_63 (A1), BK1\_63 (A1), Big3\_71 (A1), Bruns\_73 (A1), Bxb1\_63 (A1), DreamCatcher\_74 (A1), MaryBeth\_68 (A1), MetalQZJ\_67 (A1), SkiPole\_79 (A1), SwissCheese\_74 (A1),

### **Summary by clusters:**

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 2 was manually annotated 2 times for cluster A1.
- Start number 3 was manually annotated 1 time for cluster A1.
- Start number 4 was manually annotated 10 times for cluster A1.

### **Gene Information:**

Gene: A6\_63 Start: 42220, Stop: 41915, Start Num: 4

Candidate Starts for A6\_63:

(Start: 4 @42220 has 10 MA's), (5, 42196), (7, 42178), (8, 42133), (10, 42046), (12, 42034),

Gene: Agaliana\_67 Start: 43077, Stop: 42823, Start Num: 2

Candidate Starts for Agaliana\_67:

(Start: 2 @43077 has 2 MA's), (Start: 4 @43071 has 10 MA's), (5, 43047), (6, 43038), (7, 43029),

Gene: BK1\_63 Start: 42220, Stop: 41915, Start Num: 4

Candidate Starts for BK1\_63:

(Start: 4 @42220 has 10 MA's), (5, 42196), (7, 42178), (8, 42133), (10, 42046), (12, 42034),

Gene: Big3\_71 Start: 46356, Stop: 46051, Start Num: 4

Candidate Starts for Big3\_71:

(1, 46437), (Start: 4 @46356 has 10 MA's), (5, 46332), (7, 46314), (8, 46269), (10, 46182), (12, 46170),

Gene: Bruns\_73 Start: 44508, Stop: 44203, Start Num: 4

Candidate Starts for Bruns\_73:

(1, 44589), (Start: 4 @44508 has 10 MA's), (5, 44484), (7, 44466), (8, 44421), (10, 44334), (12, 44322),

Gene: Bxb1\_63 Start: 42727, Stop: 42422, Start Num: 4

Candidate Starts for Bxb1\_63:

(1, 42808), (Start: 4 @42727 has 10 MA's), (5, 42703), (7, 42685), (8, 42640), (9, 42583), (10, 42553), (12, 42541),

Gene: DreamCatcher\_74 Start: 45654, Stop: 45349, Start Num: 4

Candidate Starts for DreamCatcher\_74:

(1, 45735), (Start: 4 @45654 has 10 MA's), (5, 45630), (7, 45612), (8, 45567), (10, 45480), (12, 45468),

Gene: Francis47\_71 Start: 46921, Stop: 46667, Start Num: 2

Candidate Starts for Francis47\_71:

(Start: 2 @46921 has 2 MA's), (Start: 4 @46915 has 10 MA's), (5, 46891), (6, 46882), (7, 46873),

Gene: Maroc7\_72 Start: 46598, Stop: 46344, Start Num: 3

Candidate Starts for Maroc7\_72:

(Start: 3 @46598 has 1 MA's), (5, 46574), (7, 46556), (11, 46448),

Gene: MaryBeth\_68 Start: 44786, Stop: 44481, Start Num: 4

Candidate Starts for MaryBeth\_68:

(1, 44867), (Start: 4 @44786 has 10 MA's), (5, 44762), (7, 44744), (8, 44699), (10, 44612), (12, 44600),

Gene: MetalQZJ\_67 Start: 44786, Stop: 44481, Start Num: 4

Candidate Starts for MetalQZJ\_67:

(1, 44867), (Start: 4 @44786 has 10 MA's), (5, 44762), (7, 44744), (8, 44699), (10, 44612), (12, 44600),

Gene: PacerPaul\_74 Start: 46288, Stop: 46034, Start Num: 2

Candidate Starts for PacerPaul\_74:

(Start: 2 @46288 has 2 MA's), (Start: 4 @46282 has 10 MA's), (5, 46258), (6, 46249), (7, 46240),

Gene: SkiPole\_79 Start: 45939, Stop: 45634, Start Num: 4

Candidate Starts for SkiPole\_79:

(1, 46020), (Start: 4 @45939 has 10 MA's), (5, 45915), (7, 45897), (8, 45852), (10, 45765), (12, 45753),

Gene: SwissCheese\_74 Start: 44978, Stop: 44673, Start Num: 4

Candidate Starts for SwissCheese\_74:

(1, 45059), (Start: 4 @44978 has 10 MA's), (5, 44954), (7, 44936), (8, 44891), (10, 44804), (12, 44792),