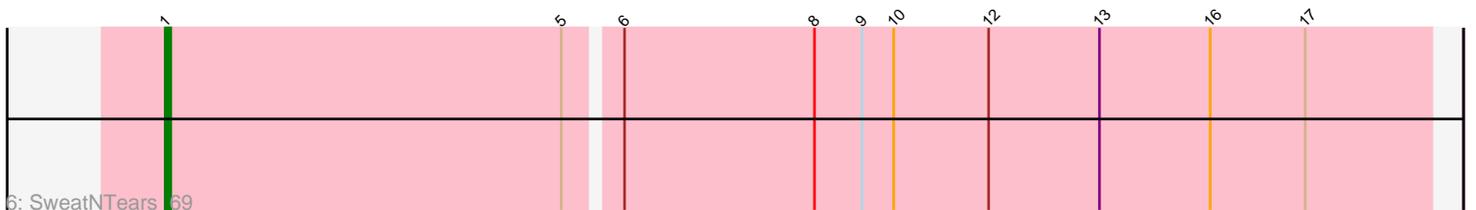
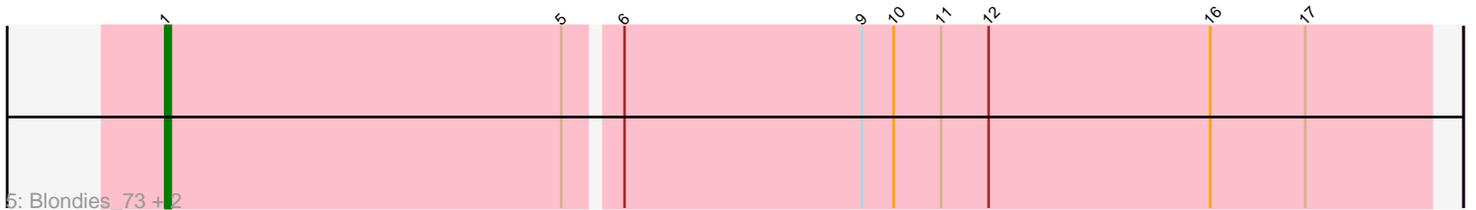
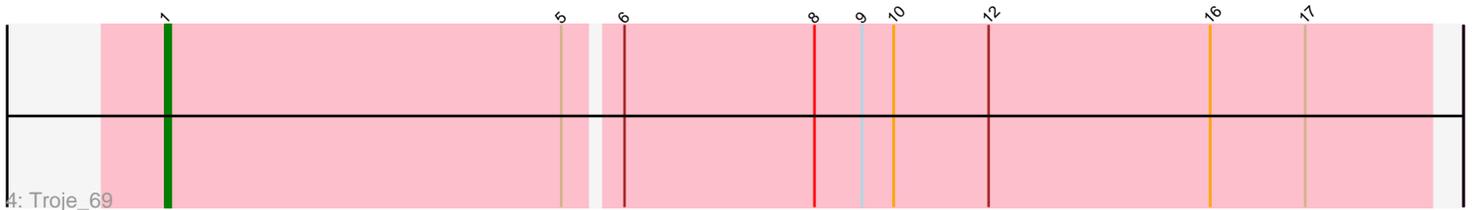
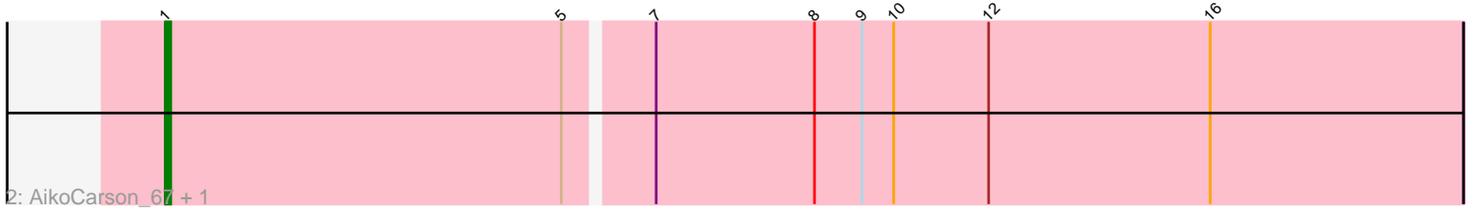
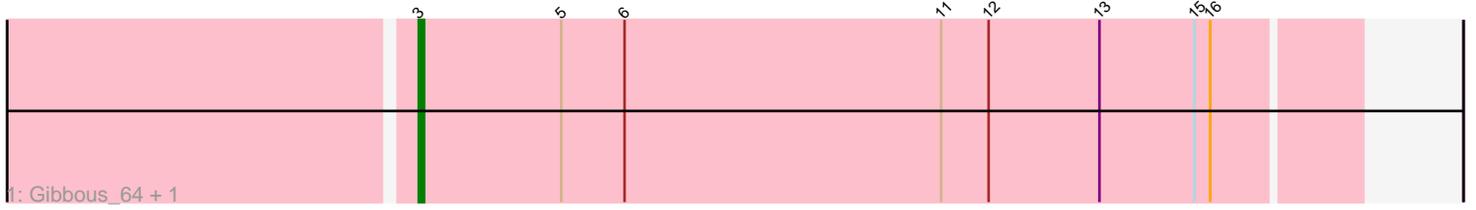


Pham 291658



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 291658 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291658 has 14 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Gibbous\_64, Dre3\_64
- Track 2 : AikoCarson\_67, Amok\_66
- Track 3 : Yummy\_69, MScarn\_71, Horseradish\_69, Buttrmlkdreams\_69
- Track 4 : Troje\_69
- Track 5 : Blondies\_73, Biskit\_69, SketchMex\_67
- Track 6 : SweatNTears\_69
- Track 7 : HippoPololi\_64

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AikoCarson\_67, Amok\_66, Biskit\_69, Blondies\_73, Buttrmlkdreams\_69, Horseradish\_69, MScarn\_71, SketchMex\_67, SweatNTears\_69, Troje\_69, Yummy\_69,

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

- 

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

- Dre3\_64, Gibbous\_64, HippoPololi\_64,

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

Start 1:

- Found in 11 of 14 ( 78.6% ) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AikoCarson\_67 (CT), Amok\_66 (CT), Biskit\_69 (CT), Blondies\_73 (CT), Buttrmlkdreams\_69 (CT), Horseradish\_69 (CT), MScarn\_71 (CT), SketchMex\_67 (CT), SweatNTears\_69 (CT), Troje\_69 (CT), Yummy\_69 (CT),

Start 2:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HippoPololi\_64 (CT),

Start 3:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dre3\_64 (CT), Gibbous\_64 (CT),

**Summary by clusters:**

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 1 was manually annotated 11 times for cluster CT.
- Start number 2 was manually annotated 1 time for cluster CT.
- Start number 3 was manually annotated 2 times for cluster CT.

**Gene Information:**

Gene: AikoCarson\_67 Start: 44165, Stop: 44407, Start Num: 1

Candidate Starts for AikoCarson\_67:

(Start: 1 @44165 has 11 MA's), (5, 44240), (7, 44255), (8, 44285), (9, 44294), (10, 44300), (12, 44318), (16, 44360),

Gene: Amok\_66 Start: 44205, Stop: 44444, Start Num: 1

Candidate Starts for Amok\_66:

(Start: 1 @44205 has 11 MA's), (5, 44280), (7, 44295), (8, 44325), (9, 44334), (10, 44340), (12, 44358), (16, 44400),

Gene: Biskit\_69 Start: 44728, Stop: 44964, Start Num: 1

Candidate Starts for Biskit\_69:

(Start: 1 @44728 has 11 MA's), (5, 44803), (6, 44812), (9, 44857), (10, 44863), (11, 44872), (12, 44881), (16, 44923), (17, 44941),

Gene: Blondies\_73 Start: 45047, Stop: 45283, Start Num: 1

Candidate Starts for Blondies\_73:

(Start: 1 @45047 has 11 MA's), (5, 45122), (6, 45131), (9, 45176), (10, 45182), (11, 45191), (12, 45200), (16, 45242), (17, 45260),

Gene: Buttrmlkdreams\_69 Start: 44897, Stop: 45133, Start Num: 1

Candidate Starts for Buttrmlkdreams\_69:

(Start: 1 @44897 has 11 MA's), (5, 44972), (6, 44981), (8, 45017), (9, 45026), (10, 45032), (11, 45041), (12, 45050), (13, 45071), (16, 45092), (17, 45110),

Gene: Dre3\_64 Start: 44202, Stop: 44378, Start Num: 3

Candidate Starts for Dre3\_64:

(Start: 3 @44202 has 2 MA's), (5, 44229), (6, 44241), (11, 44301), (12, 44310), (13, 44331), (15, 44349), (16, 44352),

Gene: Gibbous\_64 Start: 44202, Stop: 44378, Start Num: 3

Candidate Starts for Gibbous\_64:

(Start: 3 @44202 has 2 MA's), (5, 44229), (6, 44241), (11, 44301), (12, 44310), (13, 44331), (15, 44349), (16, 44352),

Gene: HippoPololi\_64 Start: 43762, Stop: 43956, Start Num: 2

Candidate Starts for HippoPololi\_64:

(Start: 2 @43762 has 1 MA's), (4, 43795), (5, 43801), (6, 43813), (9, 43858), (11, 43873), (12, 43882), (13, 43903), (14, 43909), (16, 43924),

Gene: Horseradish\_69 Start: 44661, Stop: 44897, Start Num: 1

Candidate Starts for Horseradish\_69:

(Start: 1 @44661 has 11 MA's), (5, 44736), (6, 44745), (8, 44781), (9, 44790), (10, 44796), (11, 44805), (12, 44814), (13, 44835), (16, 44856), (17, 44874),

Gene: MScarn\_71 Start: 44575, Stop: 44811, Start Num: 1

Candidate Starts for MScarn\_71:

(Start: 1 @44575 has 11 MA's), (5, 44650), (6, 44659), (8, 44695), (9, 44704), (10, 44710), (11, 44719), (12, 44728), (13, 44749), (16, 44770), (17, 44788),

Gene: SketchMex\_67 Start: 44728, Stop: 44964, Start Num: 1

Candidate Starts for SketchMex\_67:

(Start: 1 @44728 has 11 MA's), (5, 44803), (6, 44812), (9, 44857), (10, 44863), (11, 44872), (12, 44881), (16, 44923), (17, 44941),

Gene: SweatNTears\_69 Start: 44823, Stop: 45059, Start Num: 1

Candidate Starts for SweatNTears\_69:

(Start: 1 @44823 has 11 MA's), (5, 44898), (6, 44907), (8, 44943), (9, 44952), (10, 44958), (12, 44976), (13, 44997), (16, 45018), (17, 45036),

Gene: Troje\_69 Start: 44798, Stop: 45034, Start Num: 1

Candidate Starts for Troje\_69:

(Start: 1 @44798 has 11 MA's), (5, 44873), (6, 44882), (8, 44918), (9, 44927), (10, 44933), (12, 44951), (16, 44993), (17, 45011),

Gene: Yummy\_69 Start: 44775, Stop: 45011, Start Num: 1

Candidate Starts for Yummy\_69:

(Start: 1 @44775 has 11 MA's), (5, 44850), (6, 44859), (8, 44895), (9, 44904), (10, 44910), (11, 44919), (12, 44928), (13, 44949), (16, 44970), (17, 44988),