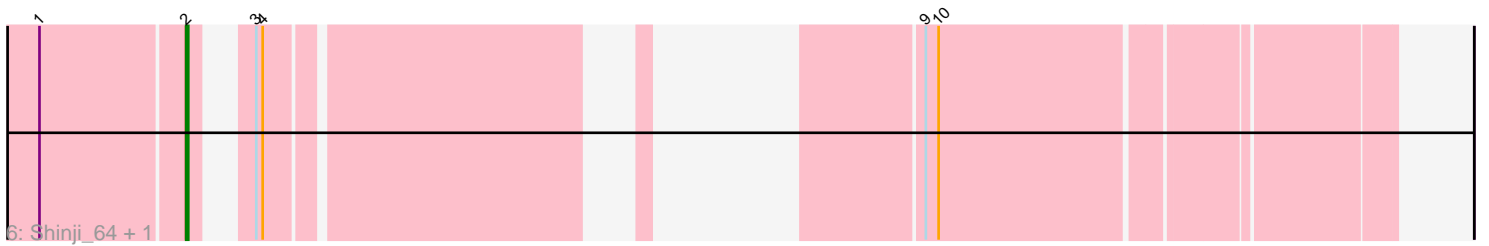
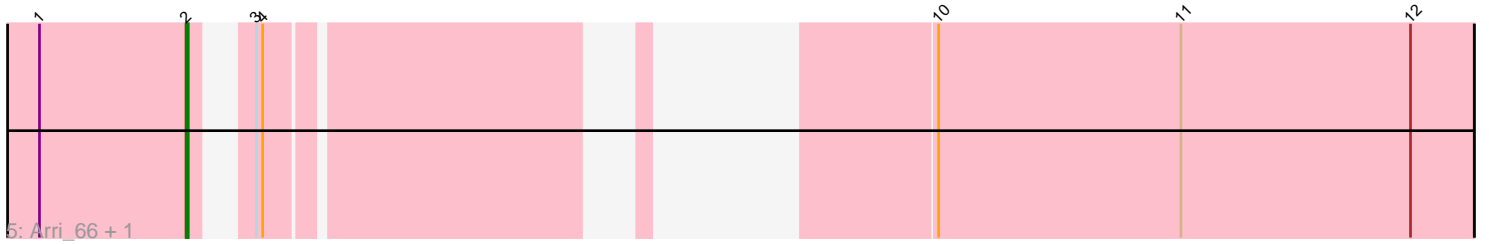
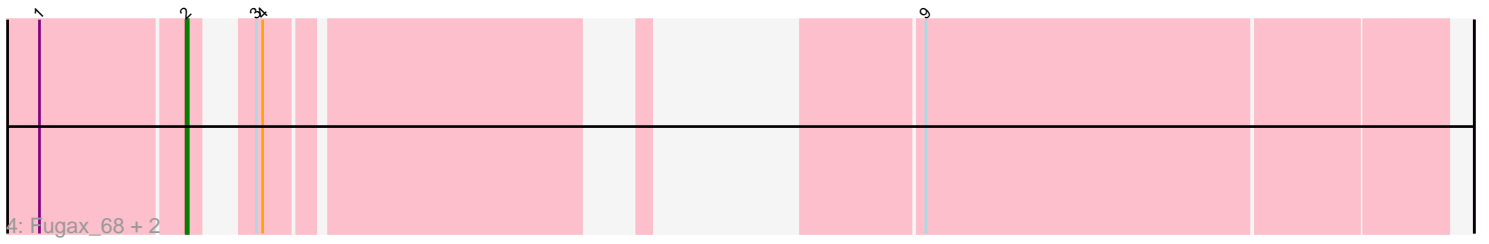
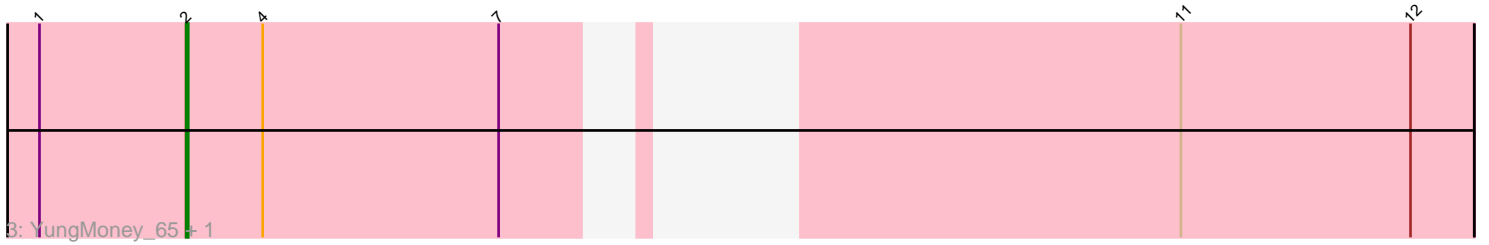
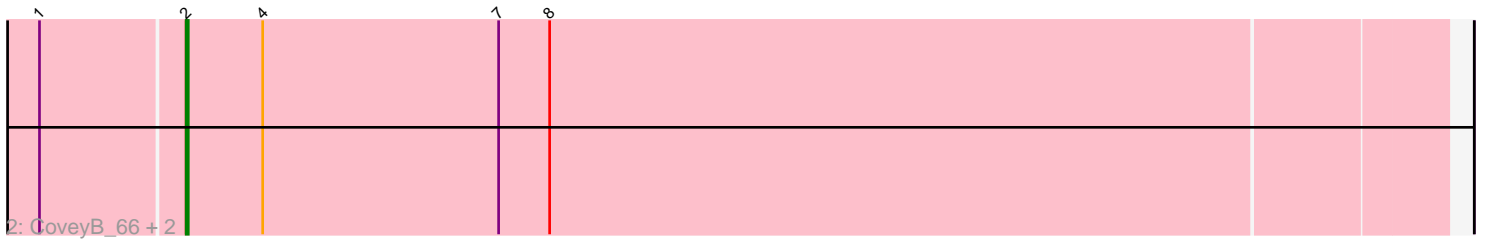
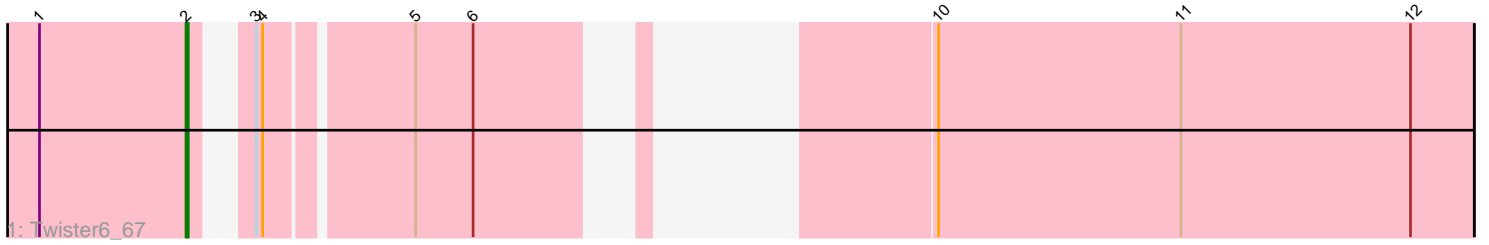


Pham 293294



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 293294 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293294 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Twister6\_67
- Track 2 : CoveyB\_66, VanDeWege\_67, Nubi\_65
- Track 3 : YungMoney\_65, Mutzi\_64
- Track 4 : Fugax\_68, ClamChowder\_67, Barb\_67
- Track 5 : Arri\_66, Danyall\_66
- Track 6 : Shinji\_64, Valary\_66

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_66, Barb\_67, ClamChowder\_67, CoveyB\_66, Danyall\_66, Fugax\_68, Mutzi\_64, Nubi\_65, Shinji\_64, Twister6\_67, Valary\_66, VanDeWege\_67, YungMoney\_65,

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

- 

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

- 

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

Start 2:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri\_66 (DC1), Barb\_67 (DC1), ClamChowder\_67 (DC1), CoveyB\_66 (DC1), Danyall\_66 (DC1), Fugax\_68 (DC1), Mutzi\_64 (DC1), Nubi\_65 (DC1), Shinji\_64 (DC1), Twister6\_67 (DC1), Valary\_66 (DC1), VanDeWege\_67 (DC1), YungMoney\_65 (DC1),

### **Summary by clusters:**

There is one cluster represented in this pham: DC1

Info for manual annotations of cluster DC1:

•Start number 2 was manually annotated 12 times for cluster DC1.

**Gene Information:**

Gene: Arri\_66 Start: 48239, Stop: 48718, Start Num: 2

Candidate Starts for Arri\_66:

(1, 48170), (Start: 2 @48239 has 12 MA's), (3, 48254), (4, 48257), (10, 48467), (11, 48581), (12, 48689),

Gene: Barb\_67 Start: 48116, Stop: 48577, Start Num: 2

Candidate Starts for Barb\_67:

(1, 48050), (Start: 2 @48116 has 12 MA's), (3, 48131), (4, 48134), (9, 48338),

Gene: ClamChowder\_67 Start: 48116, Stop: 48577, Start Num: 2

Candidate Starts for ClamChowder\_67:

(1, 48050), (Start: 2 @48116 has 12 MA's), (3, 48131), (4, 48134), (9, 48338),

Gene: CoveyB\_66 Start: 47947, Stop: 48534, Start Num: 2

Candidate Starts for CoveyB\_66:

(1, 47881), (Start: 2 @47947 has 12 MA's), (4, 47983), (7, 48094), (8, 48118),

Gene: Danyall\_66 Start: 48207, Stop: 48686, Start Num: 2

Candidate Starts for Danyall\_66:

(1, 48138), (Start: 2 @48207 has 12 MA's), (3, 48222), (4, 48225), (10, 48435), (11, 48549), (12, 48657),

Gene: Fugax\_68 Start: 48108, Stop: 48569, Start Num: 2

Candidate Starts for Fugax\_68:

(1, 48042), (Start: 2 @48108 has 12 MA's), (3, 48123), (4, 48126), (9, 48330),

Gene: Mutzi\_64 Start: 49385, Stop: 49894, Start Num: 2

Candidate Starts for Mutzi\_64:

(1, 49316), (Start: 2 @49385 has 12 MA's), (4, 49421), (7, 49532), (11, 49757), (12, 49865),

Gene: Nubi\_65 Start: 47759, Stop: 48346, Start Num: 2

Candidate Starts for Nubi\_65:

(1, 47693), (Start: 2 @47759 has 12 MA's), (4, 47795), (7, 47906), (8, 47930),

Gene: Shinji\_64 Start: 47822, Stop: 48247, Start Num: 2

Candidate Starts for Shinji\_64:

(1, 47756), (Start: 2 @47822 has 12 MA's), (3, 47837), (4, 47840), (9, 48044), (10, 48050),

Gene: Twister6\_67 Start: 48010, Stop: 48489, Start Num: 2

Candidate Starts for Twister6\_67:

(1, 47941), (Start: 2 @48010 has 12 MA's), (3, 48025), (4, 48028), (5, 48091), (6, 48118), (10, 48238), (11, 48352), (12, 48460),

Gene: Valary\_66 Start: 48860, Stop: 49285, Start Num: 2

Candidate Starts for Valary\_66:

(1, 48794), (Start: 2 @48860 has 12 MA's), (3, 48875), (4, 48878), (9, 49082), (10, 49088),

Gene: VanDeWege\_67 Start: 48194, Stop: 48781, Start Num: 2

Candidate Starts for VanDeWege\_67:

(1, 48128), (Start: 2 @48194 has 12 MA's), (4, 48230), (7, 48341), (8, 48365),

Gene: YungMoney\_65 Start: 50225, Stop: 50734, Start Num: 2

Candidate Starts for YungMoney\_65:

(1, 50156), (Start: 2 @50225 has 12 MA's), (4, 50261), (7, 50372), (11, 50597), (12, 50705),