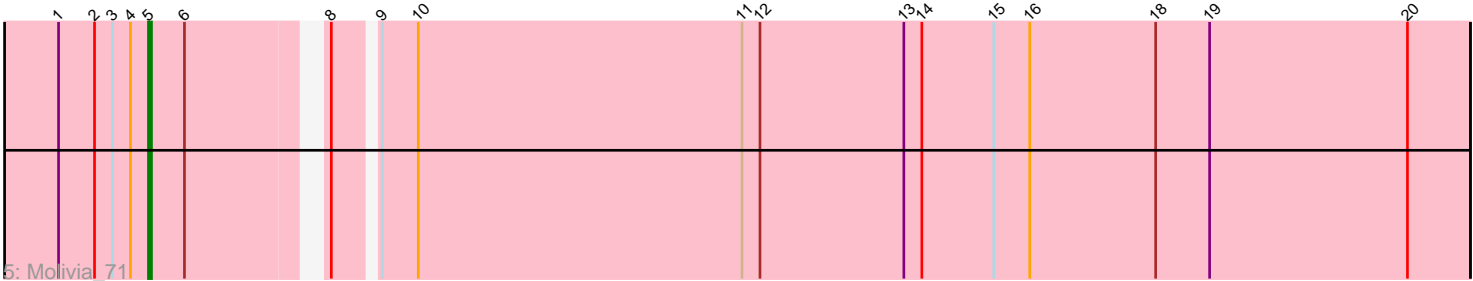
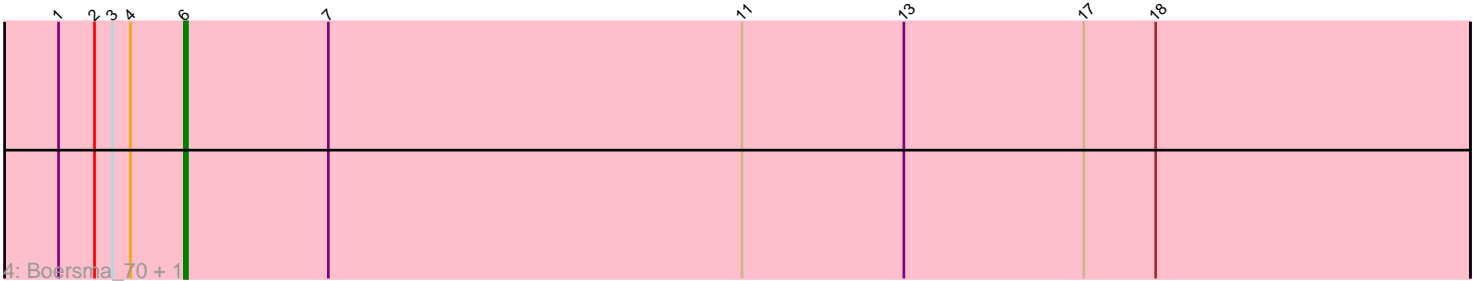
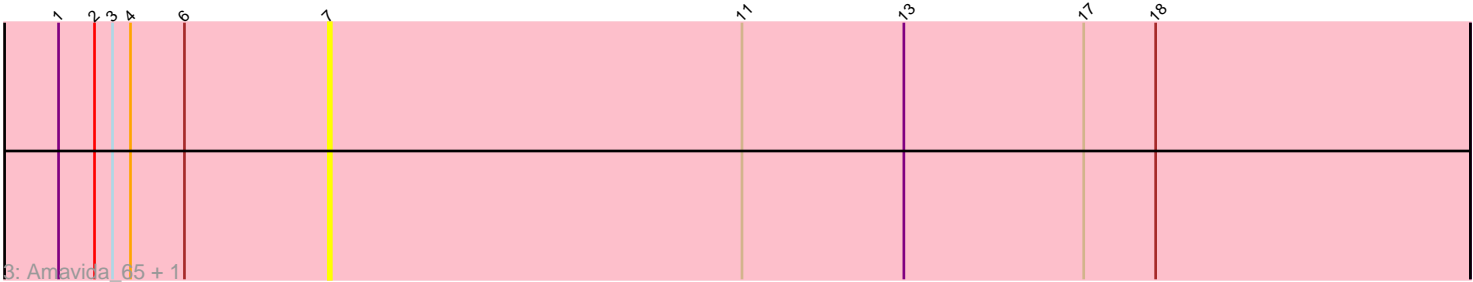
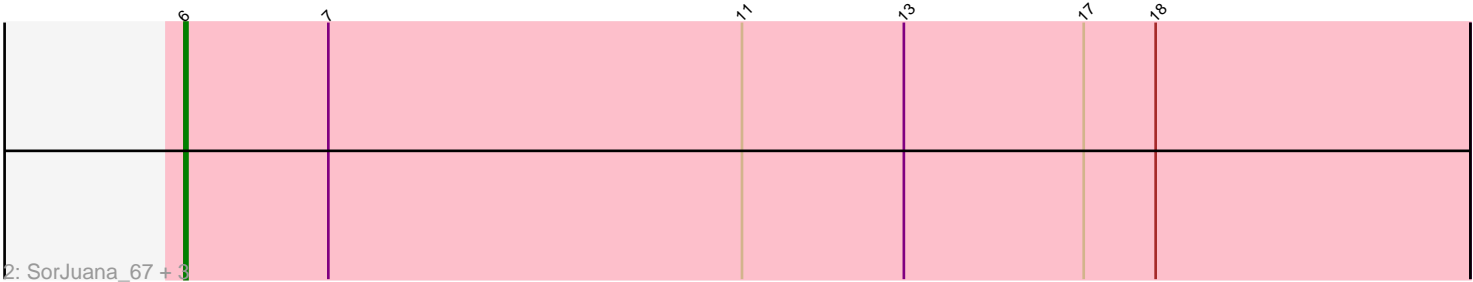
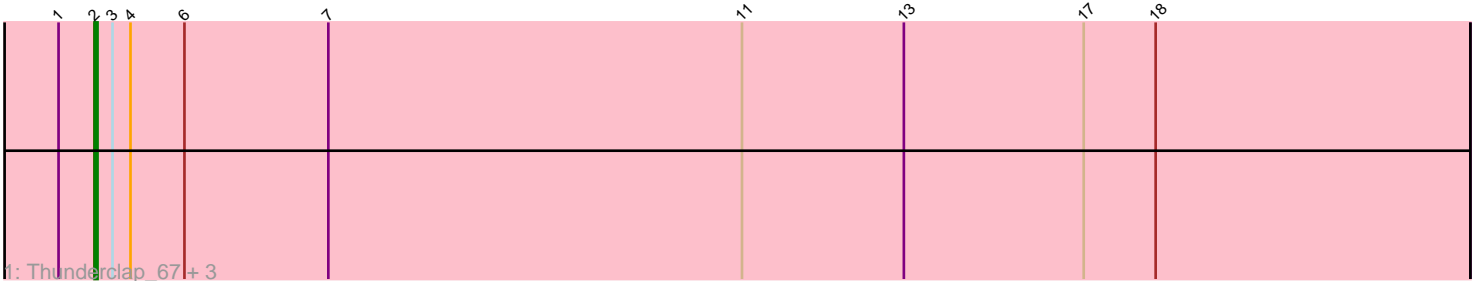


Pham 5264



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 5264 Report

This analysis was run 04/05/24 on database version 557.

Pham number 5264 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Thunderclap\_67, Jaek\_67, Yeezus\_67, Ichor\_67
- Track 2 : SorJuana\_67, Gorgeous\_67, Rings\_68, Anansi\_67
- Track 3 : Amavida\_65, Heylee\_65
- Track 4 : Boersma\_70, Amigo\_68
- Track 5 : Molivia\_71

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

The start number called the most often in the published annotations is 6, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amigo\_68, Anansi\_67, Boersma\_70, Gorgeous\_67, Rings\_68, SorJuana\_67,

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

- Amavida\_65, Heylee\_65, Ichor\_67, Jaek\_67, Molivia\_71, Thunderclap\_67, Yeezus\_67,

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

- 

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

Start 2:

- Found in 9 of 13 ( 69.2% ) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Ichor\_67 (AQ), Jaek\_67 (AQ), Thunderclap\_67 (AQ), Yeezus\_67 (AQ),

Start 5:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Molivia\_71 (AQ),

Start 6:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 46.2% of time when present
- Phage (with cluster) where this start called: Amigo\_68 (AQ), Anansi\_67 (AQ), Boersma\_70 (AQ), Gorgeous\_67 (AQ), Rings\_68 (AQ), SorJuana\_67 (AQ),

Start 7:

- Found in 12 of 13 ( 92.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Amavida\_65 (AQ), Heylee\_65 (AQ),

### Summary by clusters:

There is one cluster represented in this pham: AQ

Info for manual annotations of cluster AQ:

- Start number 2 was manually annotated 4 times for cluster AQ.
- Start number 5 was manually annotated 1 time for cluster AQ.
- Start number 6 was manually annotated 6 times for cluster AQ.

### Gene Information:

Gene: Amavida\_65 Start: 45140, Stop: 44760, Start Num: 7

Candidate Starts for Amavida\_65:

(1, 45230), (Start: 2 @45218 has 4 MA's), (3, 45212), (4, 45206), (Start: 6 @45188 has 6 MA's), (7, 45140), (11, 45002), (13, 44948), (17, 44888), (18, 44864),

Gene: Amigo\_68 Start: 45403, Stop: 44975, Start Num: 6

Candidate Starts for Amigo\_68:

(1, 45445), (Start: 2 @45433 has 4 MA's), (3, 45427), (4, 45421), (Start: 6 @45403 has 6 MA's), (7, 45355), (11, 45217), (13, 45163), (17, 45103), (18, 45079),

Gene: Anansi\_67 Start: 45010, Stop: 44582, Start Num: 6

Candidate Starts for Anansi\_67:

(Start: 6 @45010 has 6 MA's), (7, 44962), (11, 44824), (13, 44770), (17, 44710), (18, 44686),

Gene: Boersma\_70 Start: 45403, Stop: 44975, Start Num: 6

Candidate Starts for Boersma\_70:

(1, 45445), (Start: 2 @45433 has 4 MA's), (3, 45427), (4, 45421), (Start: 6 @45403 has 6 MA's), (7, 45355), (11, 45217), (13, 45163), (17, 45103), (18, 45079),

Gene: Gorgeous\_67 Start: 45010, Stop: 44582, Start Num: 6

Candidate Starts for Gorgeous\_67:

(Start: 6 @45010 has 6 MA's), (7, 44962), (11, 44824), (13, 44770), (17, 44710), (18, 44686),

Gene: Heylee\_65 Start: 45140, Stop: 44760, Start Num: 7

Candidate Starts for Heylee\_65:

(1, 45230), (Start: 2 @45218 has 4 MA's), (3, 45212), (4, 45206), (Start: 6 @45188 has 6 MA's), (7, 45140), (11, 45002), (13, 44948), (17, 44888), (18, 44864),

Gene: Ichor\_67 Start: 45433, Stop: 44975, Start Num: 2

Candidate Starts for Ichor\_67:

(1, 45445), (Start: 2 @45433 has 4 MA's), (3, 45427), (4, 45421), (Start: 6 @45403 has 6 MA's), (7, 45355), (11, 45217), (13, 45163), (17, 45103), (18, 45079),

Gene: Jaek\_67 Start: 45433, Stop: 44975, Start Num: 2

Candidate Starts for Jaek\_67:

(1, 45445), (Start: 2 @45433 has 4 MA's), (3, 45427), (4, 45421), (Start: 6 @45403 has 6 MA's), (7, 45355), (11, 45217), (13, 45163), (17, 45103), (18, 45079),

Gene: Molivia\_71 Start: 44117, Stop: 43692, Start Num: 5

Candidate Starts for Molivia\_71:

(1, 44147), (Start: 2 @44135 has 4 MA's), (3, 44129), (4, 44123), (Start: 5 @44117 has 1 MA's), (Start: 6 @44105 has 6 MA's), (8, 44066), (9, 44054), (10, 44042), (11, 43934), (12, 43928), (13, 43880), (14, 43874), (15, 43850), (16, 43838), (18, 43796), (19, 43778), (20, 43712),

Gene: Rings\_68 Start: 45451, Stop: 45023, Start Num: 6

Candidate Starts for Rings\_68:

(Start: 6 @45451 has 6 MA's), (7, 45403), (11, 45265), (13, 45211), (17, 45151), (18, 45127),

Gene: SorJuana\_67 Start: 45010, Stop: 44582, Start Num: 6

Candidate Starts for SorJuana\_67:

(Start: 6 @45010 has 6 MA's), (7, 44962), (11, 44824), (13, 44770), (17, 44710), (18, 44686),

Gene: Thunderclap\_67 Start: 45462, Stop: 45004, Start Num: 2

Candidate Starts for Thunderclap\_67:

(1, 45474), (Start: 2 @45462 has 4 MA's), (3, 45456), (4, 45450), (Start: 6 @45432 has 6 MA's), (7, 45384), (11, 45246), (13, 45192), (17, 45132), (18, 45108),

Gene: Yeezus\_67 Start: 45432, Stop: 44974, Start Num: 2

Candidate Starts for Yeezus\_67:

(1, 45444), (Start: 2 @45432 has 4 MA's), (3, 45426), (4, 45420), (Start: 6 @45402 has 6 MA's), (7, 45354), (11, 45216), (13, 45162), (17, 45102), (18, 45078),