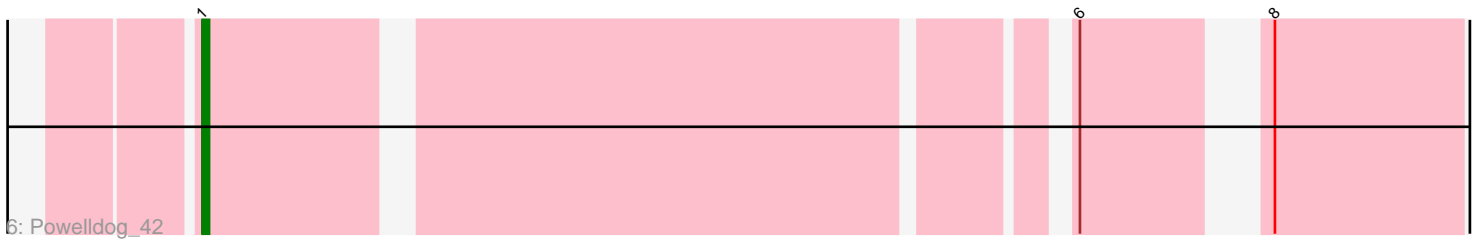
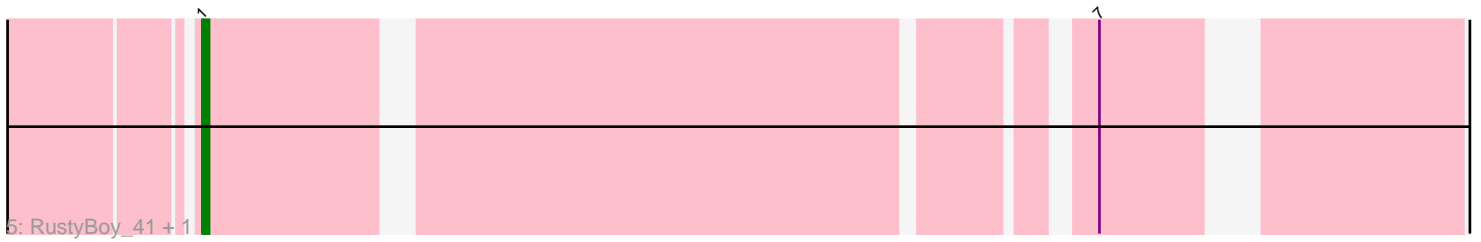
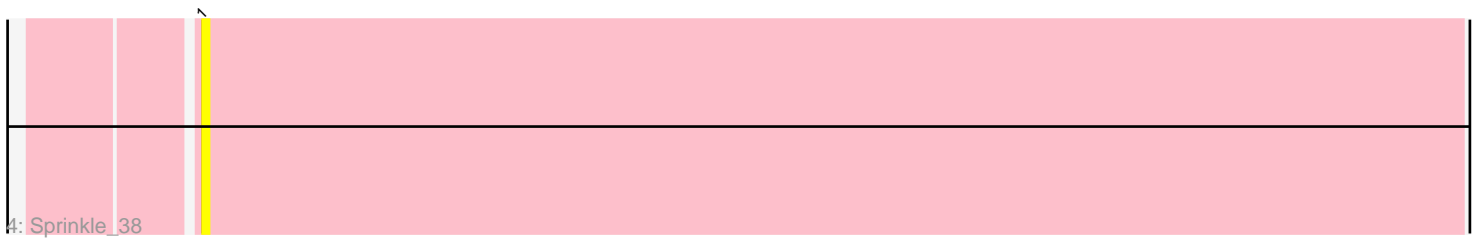
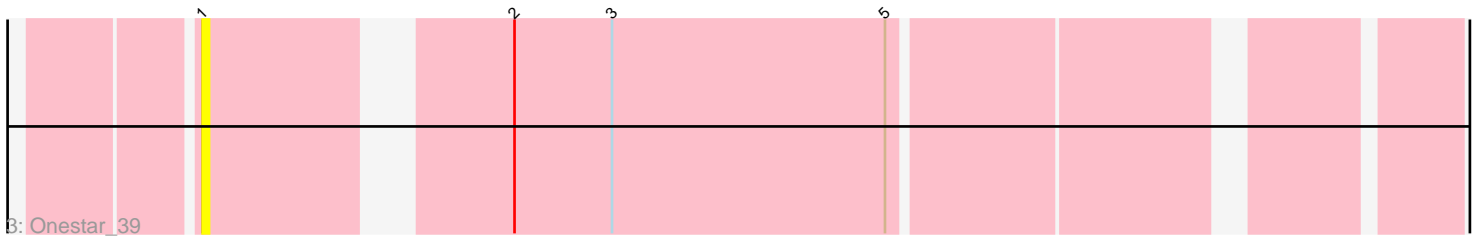
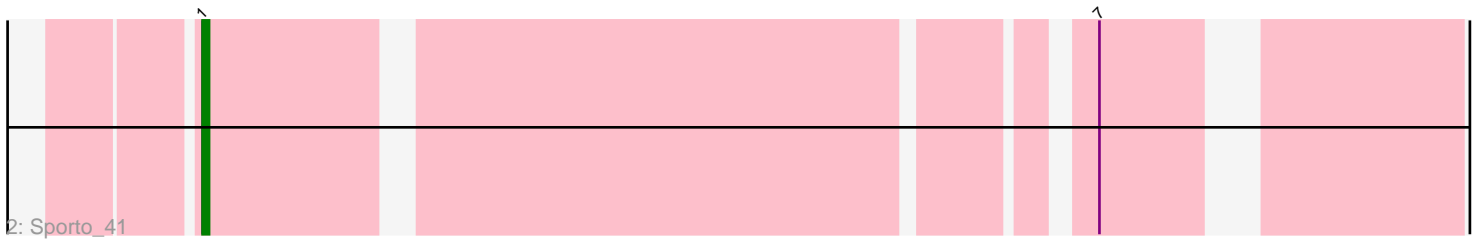
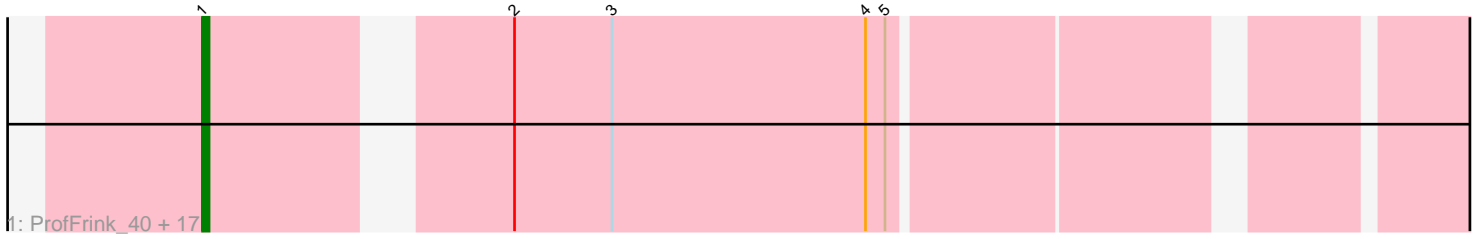


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 301709 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301709 has 24 members, 5 are drafts.

Phages represented in each track:

- Track 1 : ProfFrink\_40, Egad\_40, Shiba\_39, Stayer\_40, Sloopyjoe\_40, Raunak\_41, Linda\_40, DoctorPepper\_39, BronxBay\_40, HerbBucket\_39, StarLord\_40, Michelle\_40, MrAaronian\_40, Jeremy4pt0\_39, Boog\_39, Djungelskog\_40, Spain\_41, Salk\_40
- Track 2 : Sporto\_41
- Track 3 : Onestar\_39
- Track 4 : Sprinkle\_38
- Track 5 : RustyBoy\_41, Natasha\_41
- Track 6 : Powelldog\_42

### ***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 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Boog\_39, BronxBay\_40, Djungelskog\_40, DoctorPepper\_39, Egad\_40, HerbBucket\_39, Jeremy4pt0\_39, Linda\_40, Michelle\_40, MrAaronian\_40, Natasha\_41, Onestar\_39, Powelldog\_42, ProfFrink\_40, Raunak\_41, RustyBoy\_41, Salk\_40, Shiba\_39, Sloopyjoe\_40, Spain\_41, Sporto\_41, Sprinkle\_38, StarLord\_40, Stayer\_40,

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 1:

- Found in 24 of 24 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Boog\_39 (AW), BronxBay\_40 (AW), Djungelskog\_40 (AW), DoctorPepper\_39 (AW), Egad\_40 (AW), HerbBucket\_39 (AW), Jeremy4pt0\_39 (AW), Linda\_40 (AW), Michelle\_40 (AW), MrAaronian\_40 (AW), Natasha\_41 (AW), Onestar\_39 (AW), Powelldog\_42 (AW), ProfFrink\_40 (AW), Raunak\_41 (AW), RustyBoy\_41 (AW), Salk\_40 (AW), Shiba\_39 (AW), Sloopyjoe\_40 (AW), Spain\_41 (AW), Sporto\_41 (AW), Sprinkle\_38 (AW), StarLord\_40 (AW), Stayer\_40 (AW),

### **Summary by clusters:**

There is one cluster represented in this pham: AW

Info for manual annotations of cluster AW:

•Start number 1 was manually annotated 19 times for cluster AW.

### **Gene Information:**

Gene: Boog\_39 Start: 29708, Stop: 29905, Start Num: 1

Candidate Starts for Boog\_39:

(Start: 1 @29708 has 19 MA's), (2, 29747), (3, 29762), (4, 29801), (5, 29804),

Gene: BronxBay\_40 Start: 30005, Stop: 30202, Start Num: 1

Candidate Starts for BronxBay\_40:

(Start: 1 @30005 has 19 MA's), (2, 30044), (3, 30059), (4, 30098), (5, 30101),

Gene: Djungelskog\_40 Start: 30005, Stop: 30202, Start Num: 1

Candidate Starts for Djungelskog\_40:

(Start: 1 @30005 has 19 MA's), (2, 30044), (3, 30059), (4, 30098), (5, 30101),

Gene: DoctorPepper\_39 Start: 29707, Stop: 29904, Start Num: 1

Candidate Starts for DoctorPepper\_39:

(Start: 1 @29707 has 19 MA's), (2, 29746), (3, 29761), (4, 29800), (5, 29803),

Gene: Egad\_40 Start: 30006, Stop: 30203, Start Num: 1

Candidate Starts for Egad\_40:

(Start: 1 @30006 has 19 MA's), (2, 30045), (3, 30060), (4, 30099), (5, 30102),

Gene: HerbBucket\_39 Start: 29707, Stop: 29904, Start Num: 1

Candidate Starts for HerbBucket\_39:

(Start: 1 @29707 has 19 MA's), (2, 29746), (3, 29761), (4, 29800), (5, 29803),

Gene: Jeremy4pt0\_39 Start: 29702, Stop: 29899, Start Num: 1

Candidate Starts for Jeremy4pt0\_39:

(Start: 1 @29702 has 19 MA's), (2, 29741), (3, 29756), (4, 29795), (5, 29798),

Gene: Linda\_40 Start: 30000, Stop: 30197, Start Num: 1

Candidate Starts for Linda\_40:

(Start: 1 @30000 has 19 MA's), (2, 30039), (3, 30054), (4, 30093), (5, 30096),

Gene: Michelle\_40 Start: 30005, Stop: 30202, Start Num: 1

Candidate Starts for Michelle\_40:

(Start: 1 @30005 has 19 MA's), (2, 30044), (3, 30059), (4, 30098), (5, 30101),

Gene: MrAaronian\_40 Start: 30005, Stop: 30202, Start Num: 1

Candidate Starts for MrAaronian\_40:

(Start: 1 @30005 has 19 MA's), (2, 30044), (3, 30059), (4, 30098), (5, 30101),

Gene: Natasha\_41 Start: 29496, Stop: 29687, Start Num: 1

Candidate Starts for Natasha\_41:

(Start: 1 @29496 has 19 MA's), (7, 29619),

Gene: Onestar\_39 Start: 29474, Stop: 29668, Start Num: 1

Candidate Starts for Onestar\_39:

(Start: 1 @29474 has 19 MA's), (2, 29513), (3, 29528), (5, 29570),

Gene: Powelldog\_42 Start: 30016, Stop: 30207, Start Num: 1

Candidate Starts for Powelldog\_42:

(Start: 1 @30016 has 19 MA's), (6, 30136), (8, 30157),

Gene: ProfFrink\_40 Start: 30005, Stop: 30202, Start Num: 1

Candidate Starts for ProfFrink\_40:

(Start: 1 @30005 has 19 MA's), (2, 30044), (3, 30059), (4, 30098), (5, 30101),

Gene: Raunak\_41 Start: 29702, Stop: 29899, Start Num: 1

Candidate Starts for Raunak\_41:

(Start: 1 @29702 has 19 MA's), (2, 29741), (3, 29756), (4, 29795), (5, 29798),

Gene: RustyBoy\_41 Start: 29477, Stop: 29668, Start Num: 1

Candidate Starts for RustyBoy\_41:

(Start: 1 @29477 has 19 MA's), (7, 29600),

Gene: Salk\_40 Start: 30000, Stop: 30197, Start Num: 1

Candidate Starts for Salk\_40:

(Start: 1 @30000 has 19 MA's), (2, 30039), (3, 30054), (4, 30093), (5, 30096),

Gene: Shiba\_39 Start: 29702, Stop: 29899, Start Num: 1

Candidate Starts for Shiba\_39:

(Start: 1 @29702 has 19 MA's), (2, 29741), (3, 29756), (4, 29795), (5, 29798),

Gene: Sloopyjoe\_40 Start: 30006, Stop: 30203, Start Num: 1

Candidate Starts for Sloopyjoe\_40:

(Start: 1 @30006 has 19 MA's), (2, 30045), (3, 30060), (4, 30099), (5, 30102),

Gene: Spain\_41 Start: 30005, Stop: 30202, Start Num: 1

Candidate Starts for Spain\_41:

(Start: 1 @30005 has 19 MA's), (2, 30044), (3, 30059), (4, 30098), (5, 30101),

Gene: Sporto\_41 Start: 31241, Stop: 31432, Start Num: 1

Candidate Starts for Sporto\_41:

(Start: 1 @31241 has 19 MA's), (7, 31364),

Gene: Sprinkle\_38 Start: 29571, Stop: 29786, Start Num: 1

Candidate Starts for Sprinkle\_38:

(Start: 1 @29571 has 19 MA's),

Gene: StarLord\_40 Start: 30006, Stop: 30203, Start Num: 1

Candidate Starts for StarLord\_40:

(Start: 1 @30006 has 19 MA's), (2, 30045), (3, 30060), (4, 30099), (5, 30102),

Gene: Stayer\_40 Start: 30000, Stop: 30197, Start Num: 1

Candidate Starts for Stayer\_40:

(Start: 1 @30000 has 19 MA's), (2, 30039), (3, 30054), (4, 30093), (5, 30096),