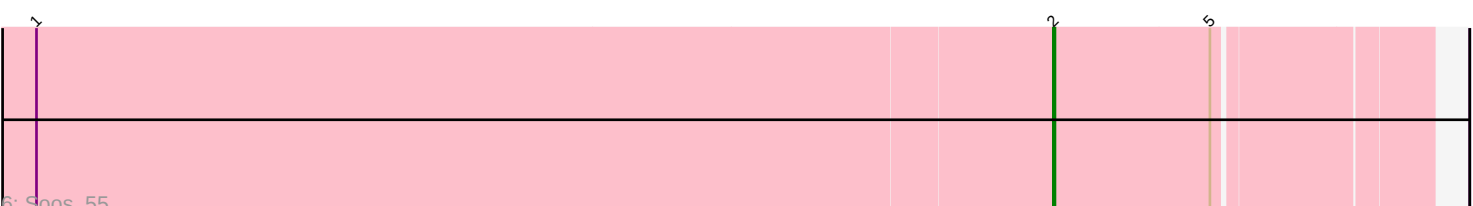
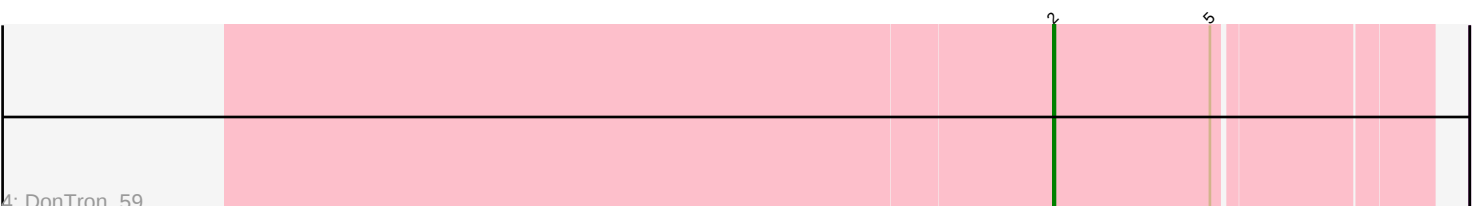


Pham 309581



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 309581 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309581 has 13 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Amo99\_60, ColdSoup\_60, KingstonB\_57, Stillion\_58, Jollymon\_59, Sting\_58
- Track 2 : Clawz\_59, Makar\_60
- Track 3 : Grumio\_59
- Track 4 : DonTron\_59
- Track 5 : Purplicious\_58
- Track 6 : Soos\_55
- Track 7 : Tonitrus\_46

### ***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 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amo99\_60, Clawz\_59, ColdSoup\_60, DonTron\_59, Grumio\_59, Jollymon\_59, KingstonB\_57, Makar\_60, Purplicious\_58, Soos\_55, Stillion\_58, Sting\_58,

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

- 

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

- Tonitrus\_46,

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

Start 2:

- Found in 12 of 13 ( 92.3% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99\_60 (CP), Clawz\_59 (CP), ColdSoup\_60 (CP), DonTron\_59 (CP), Grumio\_59 (CP), Jollymon\_59 (CP), KingstonB\_57 (CP), Makar\_60 (CP), Purplicious\_58 (CP), Soos\_55 (CP), Stillion\_58 (CP), Sting\_58 (CP),

Start 4:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonitrus\_46 (singleton),

### **Summary by clusters:**

There are 2 clusters represented in this pham: singleton, CP,

Info for manual annotations of cluster CP:

- Start number 2 was manually annotated 7 times for cluster CP.

### **Gene Information:**

Gene: Amo99\_60 Start: 38602, Stop: 38823, Start Num: 2

Candidate Starts for Amo99\_60:

(Start: 2 @38602 has 7 MA's), (5, 38698),

Gene: Clawz\_59 Start: 38394, Stop: 38615, Start Num: 2

Candidate Starts for Clawz\_59:

(Start: 2 @38394 has 7 MA's), (3, 38466), (5, 38490),

Gene: ColdSoup\_60 Start: 38602, Stop: 38823, Start Num: 2

Candidate Starts for ColdSoup\_60:

(Start: 2 @38602 has 7 MA's), (5, 38698),

Gene: DonTron\_59 Start: 38643, Stop: 38864, Start Num: 2

Candidate Starts for DonTron\_59:

(Start: 2 @38643 has 7 MA's), (5, 38739),

Gene: Grumio\_59 Start: 38084, Stop: 38305, Start Num: 2

Candidate Starts for Grumio\_59:

(Start: 2 @38084 has 7 MA's), (5, 38180),

Gene: Jollymon\_59 Start: 38602, Stop: 38823, Start Num: 2

Candidate Starts for Jollymon\_59:

(Start: 2 @38602 has 7 MA's), (5, 38698),

Gene: KingstonB\_57 Start: 38081, Stop: 38302, Start Num: 2

Candidate Starts for KingstonB\_57:

(Start: 2 @38081 has 7 MA's), (5, 38177),

Gene: Makar\_60 Start: 38421, Stop: 38642, Start Num: 2

Candidate Starts for Makar\_60:

(Start: 2 @38421 has 7 MA's), (3, 38493), (5, 38517),

Gene: Purpicious\_58 Start: 37849, Stop: 38070, Start Num: 2

Candidate Starts for Purpicious\_58:

(Start: 2 @37849 has 7 MA's), (5, 37945),

Gene: Soos\_55 Start: 37810, Stop: 38031, Start Num: 2

Candidate Starts for Soos\_55:

(1, 37186), (Start: 2 @37810 has 7 MA's), (5, 37906),

Gene: Stillion\_58 Start: 38407, Stop: 38628, Start Num: 2

Candidate Starts for Stillion\_58:

(Start: 2 @38407 has 7 MA's), (5, 38503),

Gene: Sting\_58 Start: 38249, Stop: 38470, Start Num: 2

Candidate Starts for Sting\_58:

(Start: 2 @38249 has 7 MA's), (5, 38345),

Gene: Tonitrus\_46 Start: 35996, Stop: 36175, Start Num: 4

Candidate Starts for Tonitrus\_46:

(Start: 4 @35996 has 1 MA's), (6, 36041), (7, 36080), (8, 36161), (9, 36164),