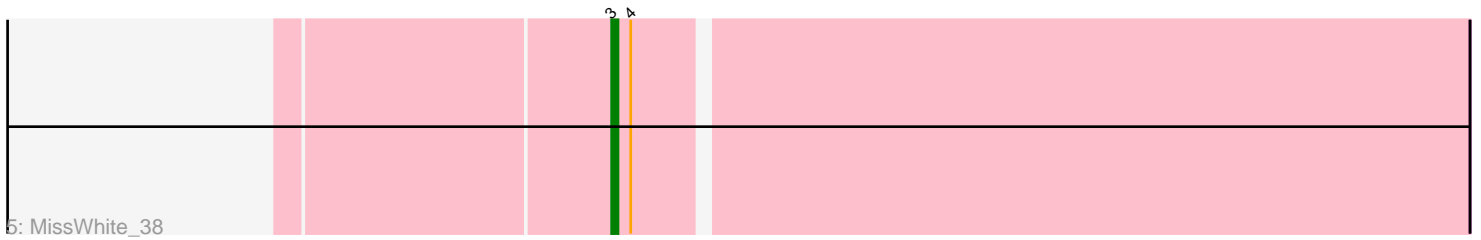
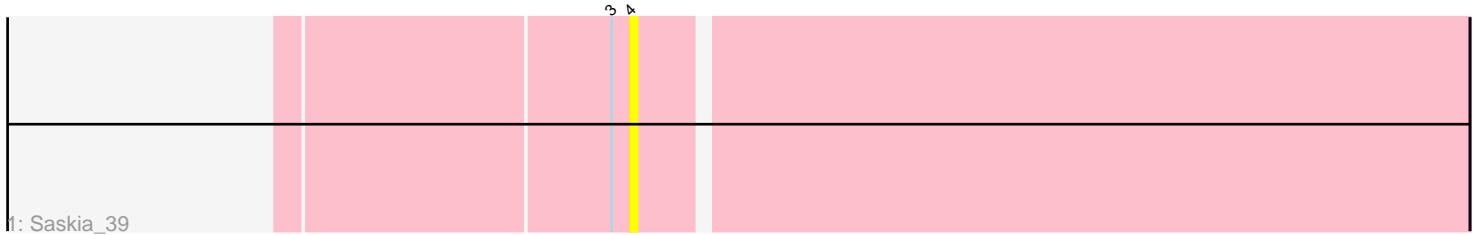


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 293203 Report

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

Pham number 293203 has 17 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Saskia\_39
- Track 2 : ShayRa\_43
- Track 3 : Oofda\_42, Warrior24\_43, Waits\_42
- Track 4 : Battleship\_43, DekHockey33\_42, Anaysia\_42, Strosahl\_43, MinecraftSteve\_43, KatherineG\_43, Soups\_42, Remus\_43, Boohoo\_42
- Track 5 : MissWhite\_38
- Track 6 : Heylee\_9, Amavida\_9

### ***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 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amavida\_9, Anaysia\_42, Battleship\_43, Boohoo\_42, DekHockey33\_42, Heylee\_9, KatherineG\_43, MinecraftSteve\_43, Oofda\_42, Remus\_43, ShayRa\_43, Soups\_42, Strosahl\_43, Waits\_42, Warrior24\_43,

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

- 

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

- MissWhite\_38, Saskia\_39,

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

Start 2:

- Found in 15 of 17 ( 88.2% ) of genes in pham
- Manual Annotations of this start: 15 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amavida\_9 (AQ), Anaysia\_42 (A15), Battleship\_43 (A15), Boohoo\_42 (A15), DekHockey33\_42 (A15), Heylee\_9 (AQ), KatherineG\_43 (A15), MinecraftSteve\_43 (A15), Oofda\_42 (A15), Remus\_43 (A15), ShayRa\_43 (A15), Soups\_42 (A15), Strosahl\_43 (A15), Waits\_42 (A15),

Warrior24\_43 (A15),

Start 3:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MissWhite\_38 (A2),

Start 4:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Saskia\_39 (A11),

### **Summary by clusters:**

There are 4 clusters represented in this pham: A15, AQ, A2, A11,

Info for manual annotations of cluster A15:

- Start number 2 was manually annotated 13 times for cluster A15.

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster AQ:

- Start number 2 was manually annotated 2 times for cluster AQ.

### **Gene Information:**

Gene: Amavida\_9 Start: 2360, Stop: 2235, Start Num: 2

Candidate Starts for Amavida\_9:

(1, 2420), (Start: 2 @2360 has 15 MA's),

Gene: Anaysia\_42 Start: 27013, Stop: 26879, Start Num: 2

Candidate Starts for Anaysia\_42:

(Start: 2 @27013 has 15 MA's), (6, 26944), (7, 26896),

Gene: Battleship\_43 Start: 26982, Stop: 26848, Start Num: 2

Candidate Starts for Battleship\_43:

(Start: 2 @26982 has 15 MA's), (6, 26913), (7, 26865),

Gene: Boohoo\_42 Start: 27013, Stop: 26879, Start Num: 2

Candidate Starts for Boohoo\_42:

(Start: 2 @27013 has 15 MA's), (6, 26944), (7, 26896),

Gene: DekHockey33\_42 Start: 27228, Stop: 27094, Start Num: 2

Candidate Starts for DekHockey33\_42:

(Start: 2 @27228 has 15 MA's), (6, 27159), (7, 27111),

Gene: Heylee\_9 Start: 2360, Stop: 2235, Start Num: 2

Candidate Starts for Heylee\_9:  
(1, 2420), (Start: 2 @2360 has 15 MA's),

Gene: KatherineG\_43 Start: 27228, Stop: 27094, Start Num: 2  
Candidate Starts for KatherineG\_43:  
(Start: 2 @27228 has 15 MA's), (6, 27159), (7, 27111),

Gene: MinecraftSteve\_43 Start: 26989, Stop: 26855, Start Num: 2  
Candidate Starts for MinecraftSteve\_43:  
(Start: 2 @26989 has 15 MA's), (6, 26920), (7, 26872),

Gene: MissWhite\_38 Start: 27073, Stop: 26942, Start Num: 3  
Candidate Starts for MissWhite\_38:  
(Start: 3 @27073 has 1 MA's), (4, 27070),

Gene: Oofda\_42 Start: 26884, Stop: 26750, Start Num: 2  
Candidate Starts for Oofda\_42:  
(Start: 2 @26884 has 15 MA's), (5, 26833), (6, 26815), (7, 26767),

Gene: Remus\_43 Start: 27148, Stop: 27014, Start Num: 2  
Candidate Starts for Remus\_43:  
(Start: 2 @27148 has 15 MA's), (6, 27079), (7, 27031),

Gene: Saskia\_39 Start: 27859, Stop: 27731, Start Num: 4  
Candidate Starts for Saskia\_39:  
(Start: 3 @27862 has 1 MA's), (4, 27859),

Gene: ShayRa\_43 Start: 26990, Stop: 26856, Start Num: 2  
Candidate Starts for ShayRa\_43:  
(Start: 2 @26990 has 15 MA's), (6, 26921), (7, 26873),

Gene: Soups\_42 Start: 26989, Stop: 26855, Start Num: 2  
Candidate Starts for Soups\_42:  
(Start: 2 @26989 has 15 MA's), (6, 26920), (7, 26872),

Gene: Strosahl\_43 Start: 27148, Stop: 27014, Start Num: 2  
Candidate Starts for Strosahl\_43:  
(Start: 2 @27148 has 15 MA's), (6, 27079), (7, 27031),

Gene: Waits\_42 Start: 26881, Stop: 26747, Start Num: 2  
Candidate Starts for Waits\_42:  
(Start: 2 @26881 has 15 MA's), (5, 26830), (6, 26812), (7, 26764),

Gene: Warrior24\_43 Start: 27068, Stop: 26934, Start Num: 2  
Candidate Starts for Warrior24\_43:  
(Start: 2 @27068 has 15 MA's), (5, 27017), (6, 26999), (7, 26951),