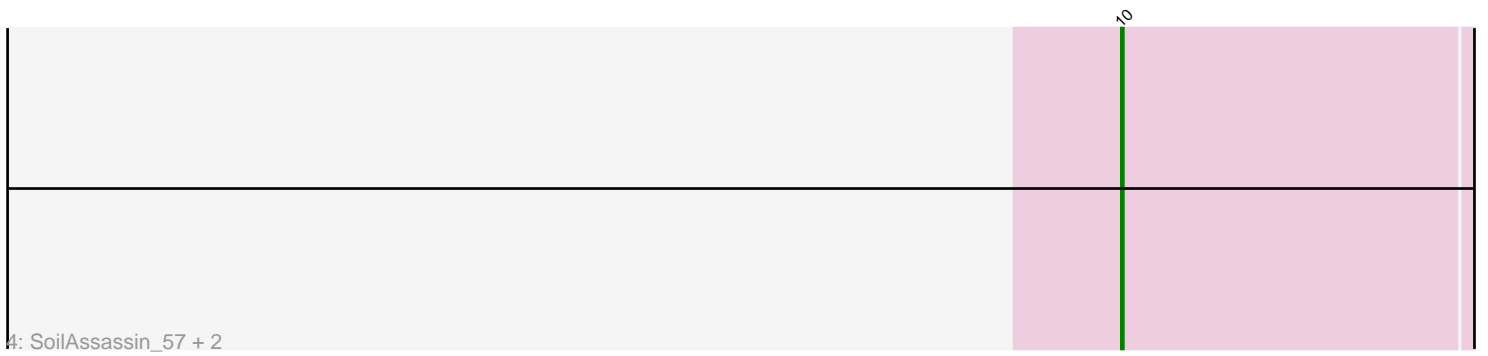
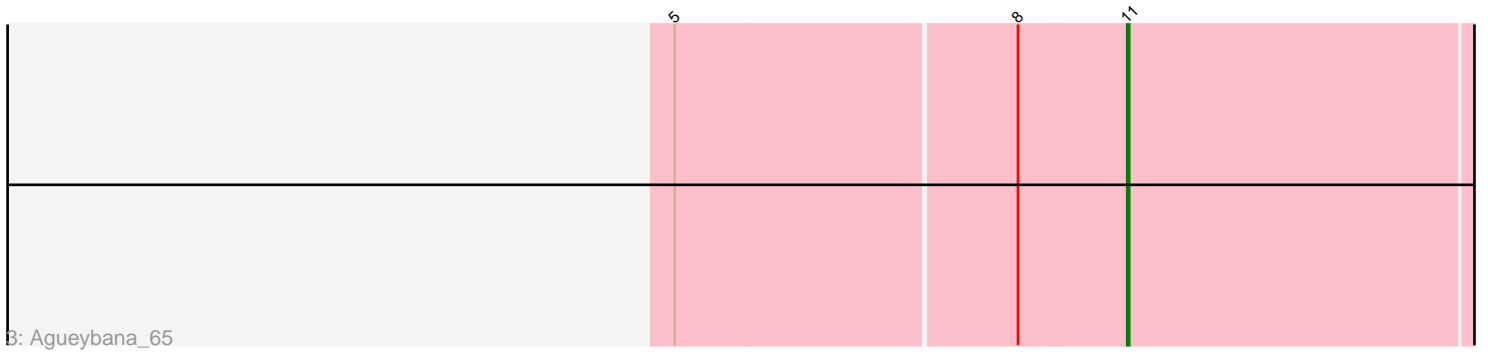
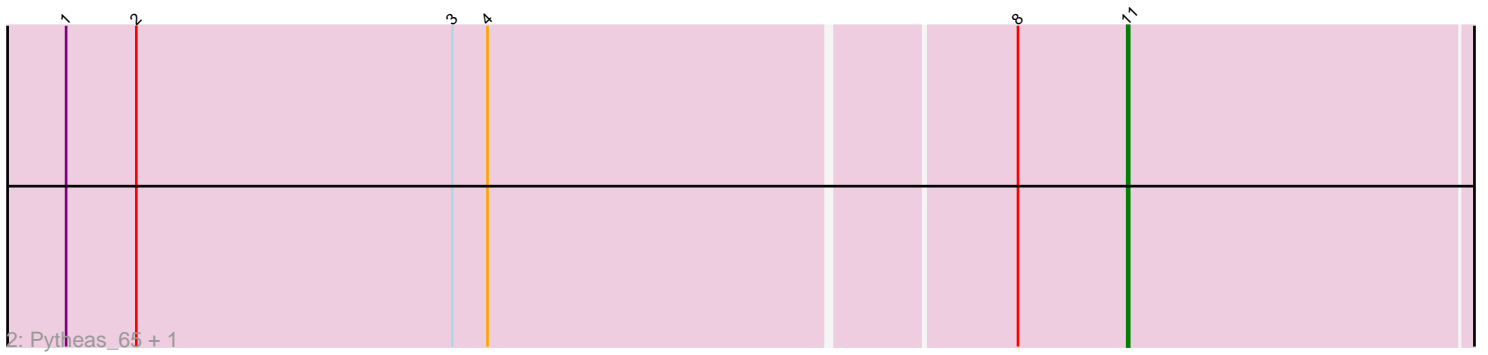
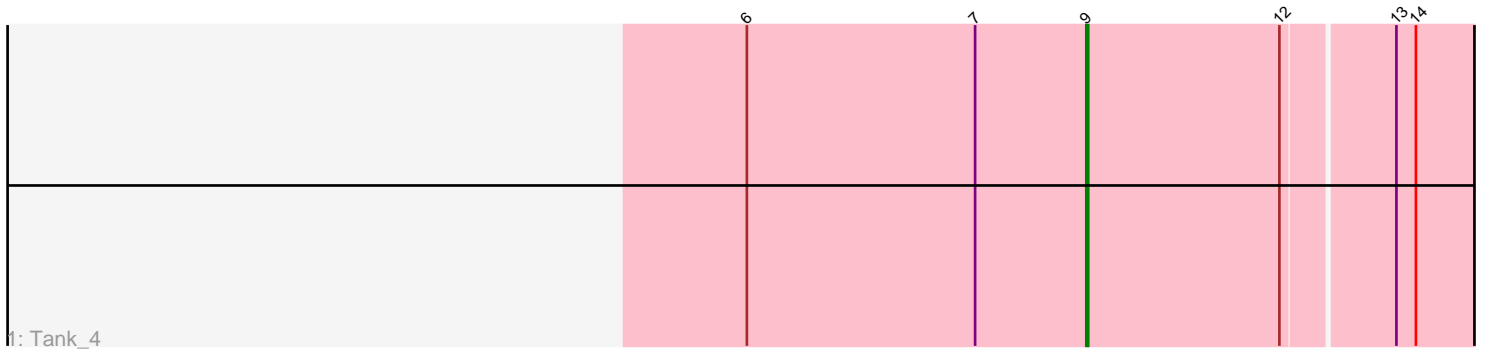


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 194645 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194645 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Tank\_4
- Track 2 : Pytheas\_65, Jablanski\_65
- Track 3 : Agueybana\_65
- Track 4 : SoilAssassin\_57, Attis\_57, LordFarquaad\_59

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

The start number called the most often in the published annotations is 11, it was called in 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana\_65, Jablanski\_65, Pytheas\_65,

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

- 

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

- Attis\_57, LordFarquaad\_59, SoilAssassin\_57, Tank\_4,

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

Start 9:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tank\_4 (AP1),

Start 10:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis\_57 (CZ2), LordFarquaad\_59 (CZ2), SoilAssassin\_57 (CZ2),

Start 11:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana\_65 (CZ1), Jablanski\_65 (CY), Pytheas\_65 (CY),

### **Summary by clusters:**

There are 4 clusters represented in this pham: CZ2, CY, AP1, CZ1,

Info for manual annotations of cluster AP1:

- Start number 9 was manually annotated 1 time for cluster AP1.

Info for manual annotations of cluster CY:

- Start number 11 was manually annotated 2 times for cluster CY.

Info for manual annotations of cluster CZ1:

- Start number 11 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 10 was manually annotated 3 times for cluster CZ2.

### **Gene Information:**

Gene: Agueybana\_65 Start: 44281, Stop: 44547, Start Num: 11

Candidate Starts for Agueybana\_65:

(5, 44056), (8, 44227), (Start: 11 @44281 has 3 MA's),

Gene: Attis\_57 Start: 40007, Stop: 40276, Start Num: 10

Candidate Starts for Attis\_57:

(Start: 10 @40007 has 3 MA's),

Gene: Jablanski\_65 Start: 46155, Stop: 46421, Start Num: 11

Candidate Starts for Jablanski\_65:

(1, 45624), (2, 45660), (3, 45822), (4, 45840), (8, 46101), (Start: 11 @46155 has 3 MA's),

Gene: LordFarquaad\_59 Start: 39988, Stop: 40257, Start Num: 10

Candidate Starts for LordFarquaad\_59:

(Start: 10 @39988 has 3 MA's),

Gene: Pytheas\_65 Start: 46154, Stop: 46420, Start Num: 11

Candidate Starts for Pytheas\_65:

(1, 45623), (2, 45659), (3, 45821), (4, 45839), (8, 46100), (Start: 11 @46154 has 3 MA's),

Gene: SoilAssassin\_57 Start: 40006, Stop: 40275, Start Num: 10

Candidate Starts for SoilAssassin\_57:

(Start: 10 @40006 has 3 MA's),

Gene: Tank\_4 Start: 2081, Stop: 2359, Start Num: 9

Candidate Starts for Tank\_4:

(6, 1907), (7, 2024), (Start: 9 @2081 has 1 MA's), (12, 2180), (13, 2234), (14, 2243),