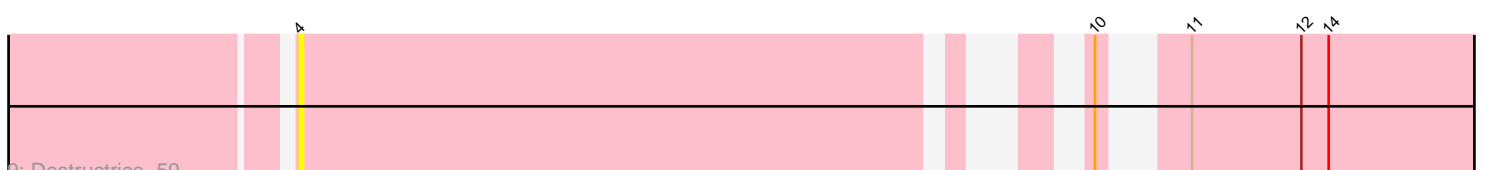
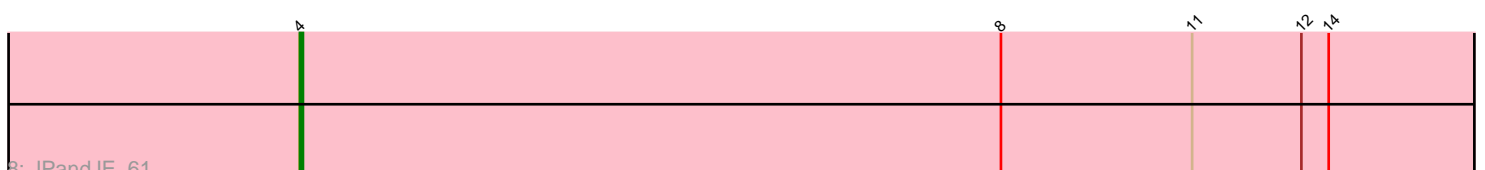
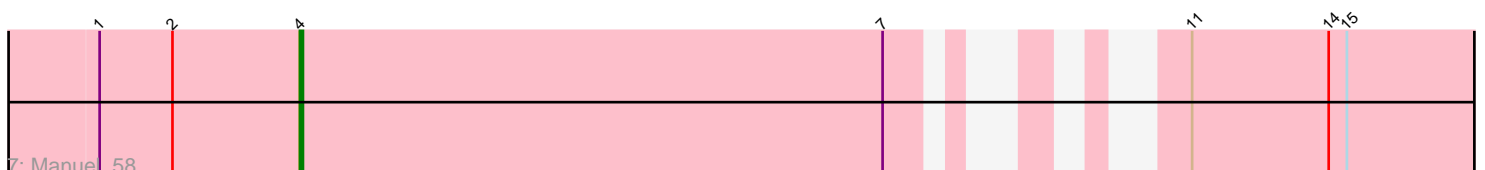
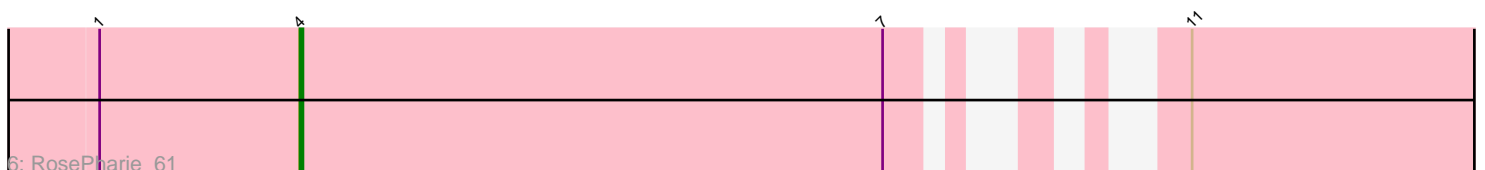
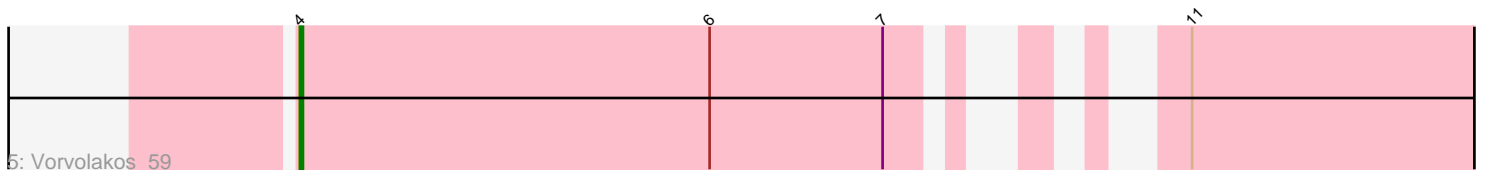
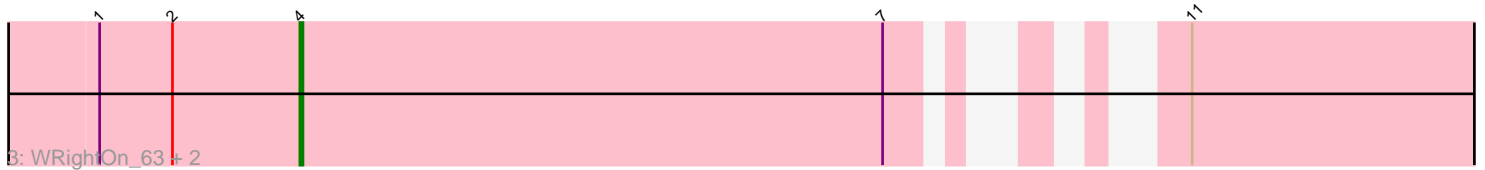
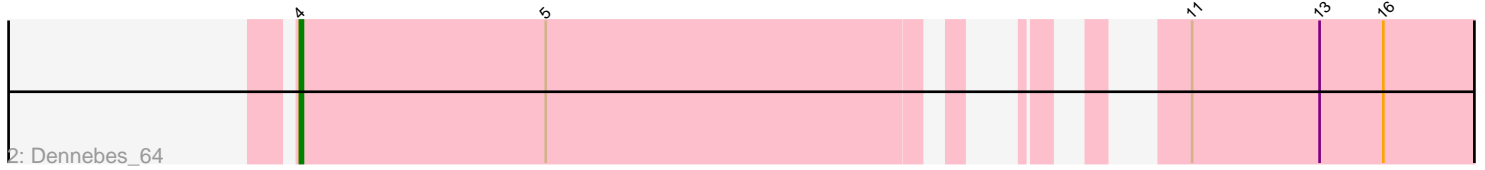
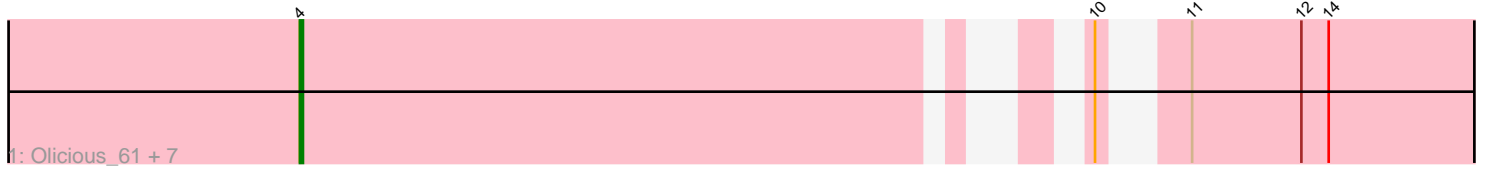


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 214693 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214693 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Olicious\_61, Immanuel3\_60, Romero\_61, Percastrophe\_61, ZooBear\_61, ToriToki\_61, Treat\_61, HaugeAnator\_61
- Track 2 : Dennebes\_64
- Track 3 : WRightOn\_63, Kumquat\_59, Zeigle\_59
- Track 4 : Stella\_63
- Track 5 : Vorvolakos\_59
- Track 6 : RosePharie\_61
- Track 7 : Manuel\_58
- Track 8 : JPandJE\_61
- Track 9 : Destructrice\_59

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

The start number called the most often in the published annotations is 4, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dennebes\_64, Destructrice\_59, HaugeAnator\_61, Immanuel3\_60, JPandJE\_61, Kumquat\_59, Manuel\_58, Olicious\_61, Percastrophe\_61, Romero\_61, RosePharie\_61, Stella\_63, ToriToki\_61, Treat\_61, Vorvolakos\_59, WRightOn\_63, Zeigle\_59, ZooBear\_61,

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 4:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Dennebes\_64 (BF), Destructrice\_59 (BF), HaugeAnator\_61 (BF), Immanuel3\_60 (BF), JPandJE\_61 (BF), Kumquat\_59 (BF), Manuel\_58 (BF), Olicious\_61 (BF), Percastrophe\_61 (BF), Romero\_61 (BF), RosePharie\_61 (BF), Stella\_63 (BF), ToriToki\_61 (BF), Treat\_61 (BF), Vorvolakos\_59 (BF), WRightOn\_63 (BF), Zeigle\_59 (BF), ZooBear\_61 (BF),

### **Summary by clusters:**

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

•Start number 4 was manually annotated 17 times for cluster BF.

### **Gene Information:**

Gene: Dennebes\_64 Start: 31702, Stop: 31352, Start Num: 4

Candidate Starts for Dennebes\_64:

(Start: 4 @31702 has 17 MA's), (5, 31621), (11, 31465), (13, 31423), (16, 31402),

Gene: Destructrice\_59 Start: 31598, Stop: 31254, Start Num: 4

Candidate Starts for Destructrice\_59:

(Start: 4 @31598 has 17 MA's), (10, 31373), (11, 31358), (12, 31322), (14, 31313),

Gene: HaugeAnator\_61 Start: 31665, Stop: 31324, Start Num: 4

Candidate Starts for HaugeAnator\_61:

(Start: 4 @31665 has 17 MA's), (10, 31440), (11, 31425), (12, 31389), (14, 31380),

Gene: Immanuel3\_60 Start: 31668, Stop: 31327, Start Num: 4

Candidate Starts for Immanuel3\_60:

(Start: 4 @31668 has 17 MA's), (10, 31443), (11, 31428), (12, 31392), (14, 31383),

Gene: JPandJE\_61 Start: 32184, Stop: 31789, Start Num: 4

Candidate Starts for JPandJE\_61:

(Start: 4 @32184 has 17 MA's), (8, 31953), (11, 31890), (12, 31854), (14, 31845),

Gene: Kumquat\_59 Start: 31123, Stop: 30773, Start Num: 4

Candidate Starts for Kumquat\_59:

(1, 31189), (2, 31165), (Start: 4 @31123 has 17 MA's), (7, 30931), (11, 30883),

Gene: Manuel\_58 Start: 31424, Stop: 31080, Start Num: 4

Candidate Starts for Manuel\_58:

(1, 31490), (2, 31466), (Start: 4 @31424 has 17 MA's), (7, 31232), (11, 31184), (14, 31139), (15, 31133),

Gene: Olicious\_61 Start: 31665, Stop: 31324, Start Num: 4

Candidate Starts for Olicious\_61:

(Start: 4 @31665 has 17 MA's), (10, 31440), (11, 31425), (12, 31389), (14, 31380),

Gene: Percastrophe\_61 Start: 31599, Stop: 31258, Start Num: 4

Candidate Starts for Percastrophe\_61:

(Start: 4 @31599 has 17 MA's), (10, 31374), (11, 31359), (12, 31323), (14, 31314),

Gene: Romero\_61 Start: 31658, Stop: 31317, Start Num: 4

Candidate Starts for Romero\_61:

(Start: 4 @31658 has 17 MA's), (10, 31433), (11, 31418), (12, 31382), (14, 31373),

Gene: RosePharie\_61 Start: 31485, Stop: 31126, Start Num: 4

Candidate Starts for RosePharie\_61:

(1, 31551), (Start: 4 @31485 has 17 MA's), (7, 31293), (11, 31245),

Gene: Stella\_63 Start: 32170, Stop: 31820, Start Num: 4

Candidate Starts for Stella\_63:

(3, 32194), (Start: 4 @32170 has 17 MA's), (9, 31954), (10, 31948), (12, 31897), (14, 31888), (16, 31870),

Gene: ToriToki\_61 Start: 31661, Stop: 31320, Start Num: 4

Candidate Starts for ToriToki\_61:

(Start: 4 @31661 has 17 MA's), (10, 31436), (11, 31421), (12, 31385), (14, 31376),

Gene: Treat\_61 Start: 31602, Stop: 31261, Start Num: 4

Candidate Starts for Treat\_61:

(Start: 4 @31602 has 17 MA's), (10, 31377), (11, 31362), (12, 31326), (14, 31317),

Gene: Vorvolakos\_59 Start: 31137, Stop: 30781, Start Num: 4

Candidate Starts for Vorvolakos\_59:

(Start: 4 @31137 has 17 MA's), (6, 31002), (7, 30945), (11, 30897),

Gene: WRightOn\_63 Start: 31279, Stop: 30929, Start Num: 4

Candidate Starts for WRightOn\_63:

(1, 31345), (2, 31321), (Start: 4 @31279 has 17 MA's), (7, 31087), (11, 31039),

Gene: Zeigle\_59 Start: 31123, Stop: 30773, Start Num: 4

Candidate Starts for Zeigle\_59:

(1, 31189), (2, 31165), (Start: 4 @31123 has 17 MA's), (7, 30931), (11, 30883),

Gene: ZooBear\_61 Start: 31665, Stop: 31324, Start Num: 4

Candidate Starts for ZooBear\_61:

(Start: 4 @31665 has 17 MA's), (10, 31440), (11, 31425), (12, 31389), (14, 31380),