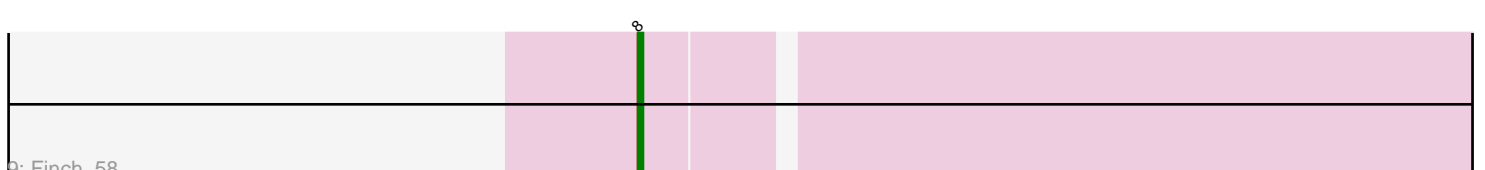
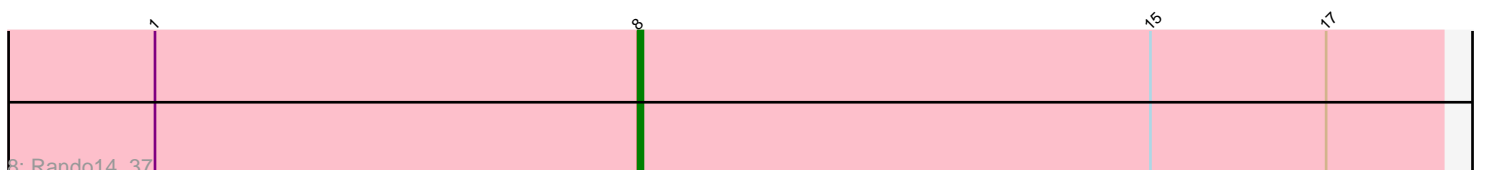
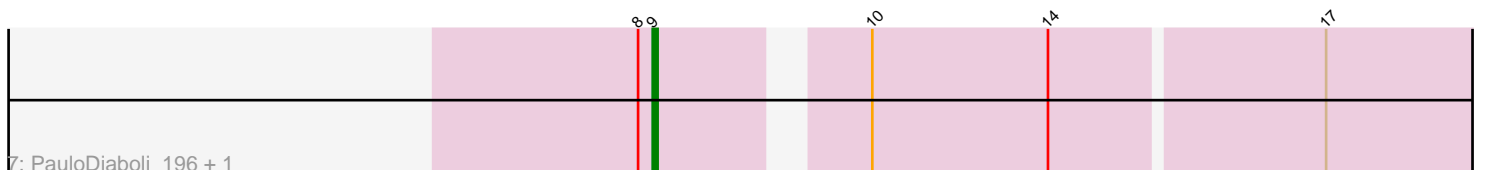
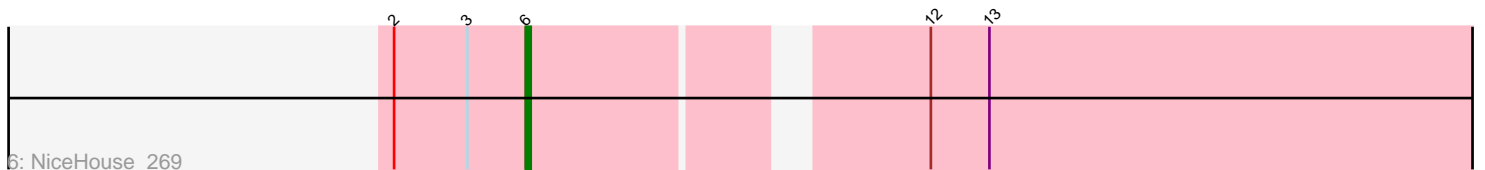
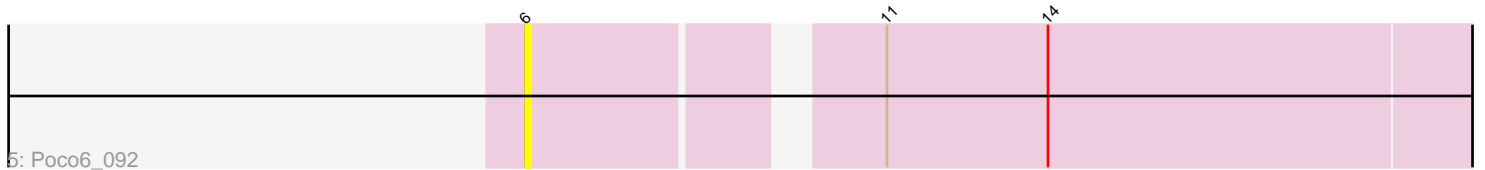
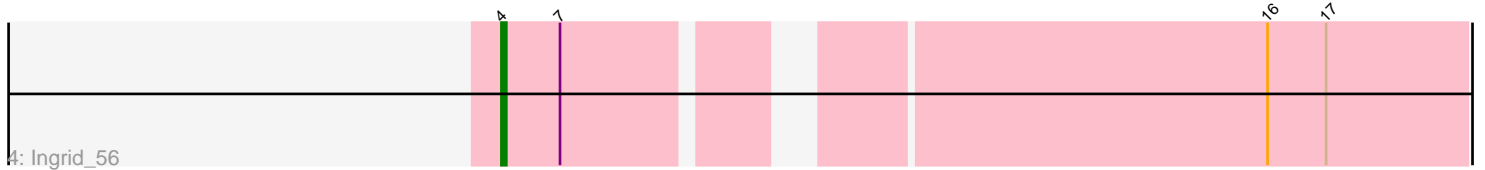
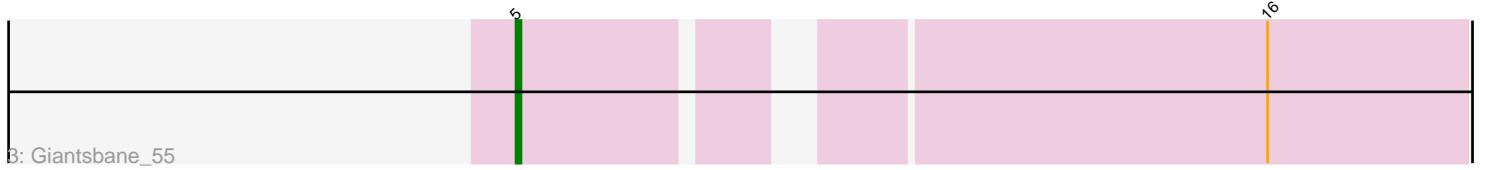
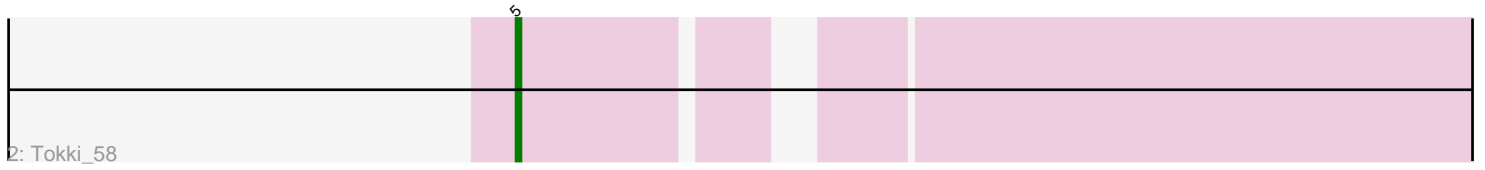
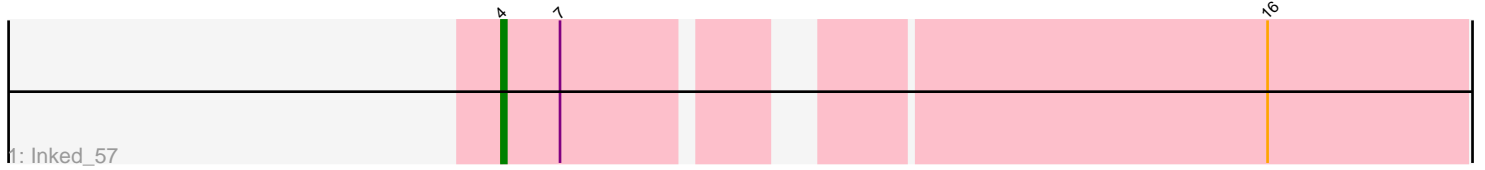


Pham 159570



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 159570 Report

This analysis was run 04/28/24 on database version 559.

Pham number 159570 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Inked\_57
- Track 2 : Tokki\_58
- Track 3 : Giantsbane\_55
- Track 4 : Ingrid\_56
- Track 5 : Poco6\_092
- Track 6 : NiceHouse\_269
- Track 7 : PauloDiaboli\_196, A3Wally\_197
- Track 8 : Rando14\_37
- Track 9 : Finch\_58

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

The start number called the most often in the published annotations is 9, it was called in 2 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally\_197, PauloDiaboli\_196,

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

- 

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

- Finch\_58, Giantsbane\_55, Ingrid\_56, Inked\_57, NiceHouse\_269, Poco6\_092, Rando14\_37, Tokki\_58,

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

Start 4:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ingrid\_56 (AU3), Inked\_57 (AU),

Start 5:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Giantsbane\_55 (AU2), Tokki\_58 (AU2),

Start 6:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse\_269 (CE), Poco6\_092 (CC),

Start 8:

- Found in 4 of 10 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Finch\_58 (singleton), Rando14\_37 (K5),

Start 9:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_197 (GD1), PauloDiaboli\_196 (GD1),

### **Summary by clusters:**

There are 8 clusters represented in this pham: GD1, singleton, CC, CE, AU3, AU2, AU, K5,

Info for manual annotations of cluster AU:

- Start number 4 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU2:

- Start number 5 was manually annotated 2 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 4 was manually annotated 1 time for cluster AU3.

Info for manual annotations of cluster CE:

- Start number 6 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster GD1:

- Start number 9 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster K5:

- Start number 8 was manually annotated 1 time for cluster K5.

### **Gene Information:**

Gene: A3Wally\_197 Start: 109106, Stop: 109285, Start Num: 9

Candidate Starts for A3Wally\_197:

(Start: 8 @109103 has 2 MA's), (Start: 9 @109106 has 2 MA's), (10, 109142), (14, 109178), (17, 109232),

Gene: Finch\_58 Start: 47919, Stop: 48083, Start Num: 8

Candidate Starts for Finch\_58:

(Start: 8 @47919 has 2 MA's),

Gene: Giantsbane\_55 Start: 36034, Stop: 36225, Start Num: 5

Candidate Starts for Giantsbane\_55:

(Start: 5 @36034 has 2 MA's), (16, 36172),

Gene: Ingrid\_56 Start: 36844, Stop: 37038, Start Num: 4

Candidate Starts for Ingrid\_56:

(Start: 4 @36844 has 2 MA's), (7, 36856), (16, 36985), (17, 36997),

Gene: Inked\_57 Start: 37966, Stop: 38160, Start Num: 4

Candidate Starts for Inked\_57:

(Start: 4 @37966 has 2 MA's), (7, 37978), (16, 38107),

Gene: NiceHouse\_269 Start: 134061, Stop: 134252, Start Num: 6

Candidate Starts for NiceHouse\_269:

(2, 134034), (3, 134049), (Start: 6 @134061 has 1 MA's), (12, 134133), (13, 134145),

Gene: PauloDiaboli\_196 Start: 107152, Stop: 107331, Start Num: 9

Candidate Starts for PauloDiaboli\_196:

(Start: 8 @107149 has 2 MA's), (Start: 9 @107152 has 2 MA's), (10, 107188), (14, 107224), (17, 107278),

Gene: Poco6\_092 Start: 48067, Stop: 48252, Start Num: 6

Candidate Starts for Poco6\_092:

(Start: 6 @48067 has 1 MA's), (11, 48130), (14, 48163),

Gene: Rando14\_37 Start: 29193, Stop: 29357, Start Num: 8

Candidate Starts for Rando14\_37:

(1, 29094), (Start: 8 @29193 has 2 MA's), (15, 29298), (17, 29334),

Gene: Tokki\_58 Start: 37146, Stop: 37340, Start Num: 5

Candidate Starts for Tokki\_58:

(Start: 5 @37146 has 2 MA's),