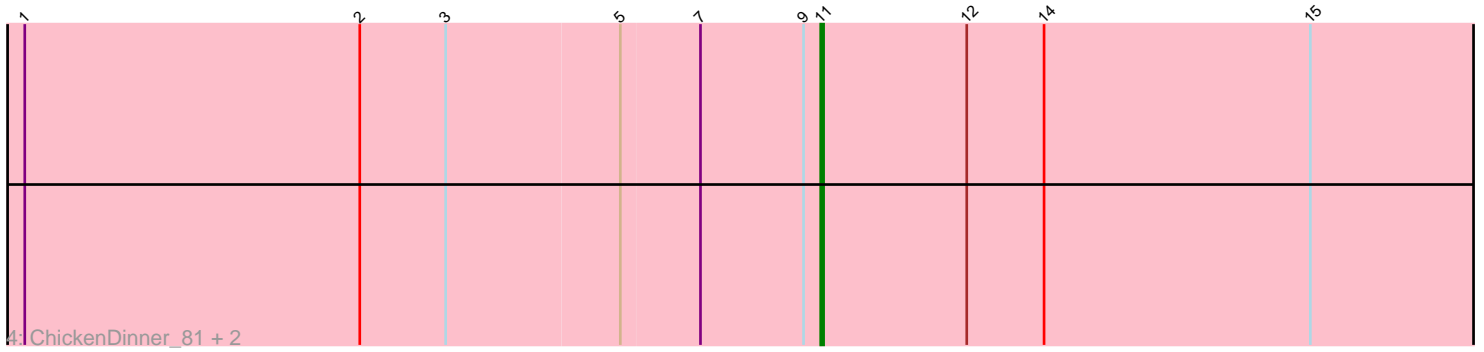
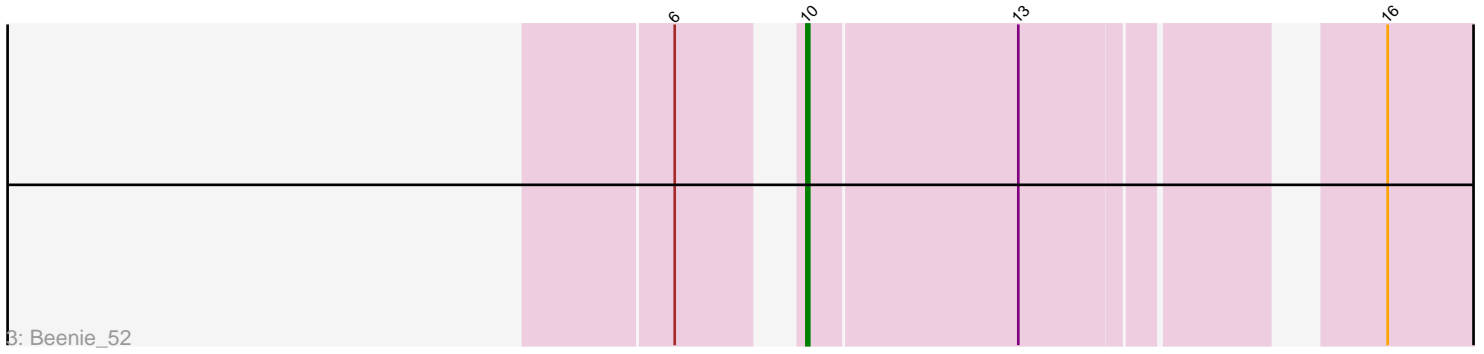
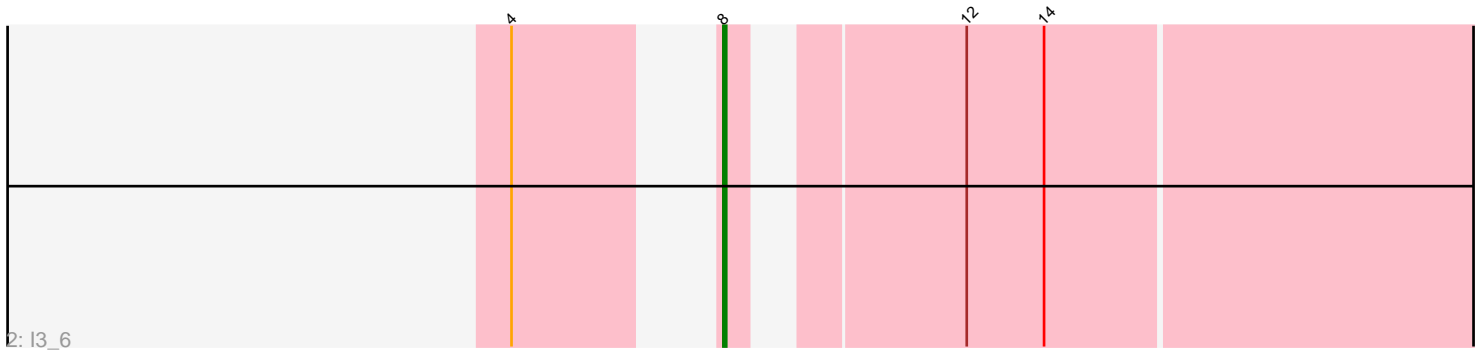
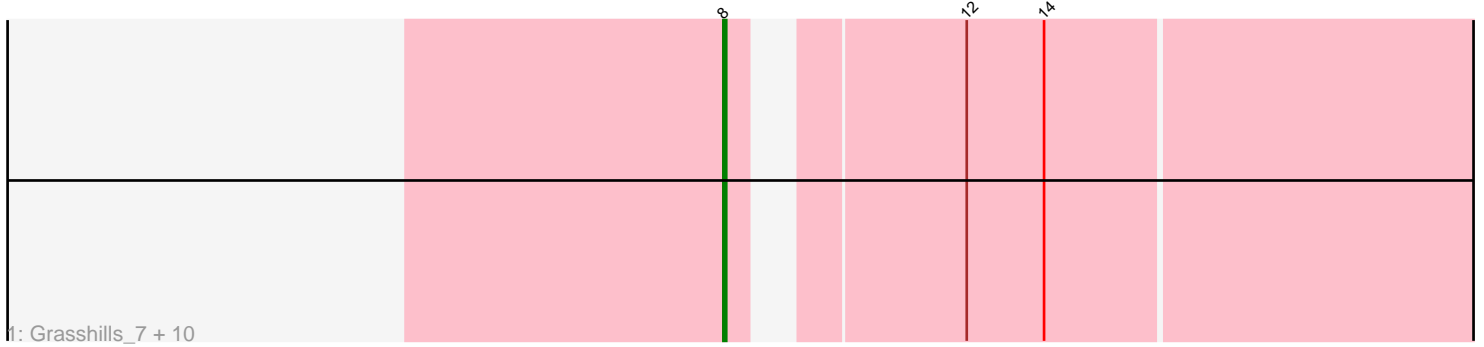


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 158246 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158246 has 16 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Grasshills\_7, Drazdys\_7, Tyke\_7, Specks\_7, BigCity\_7, DTDevon\_7, EggyFarm\_7, InterFolia\_7, LordLeafolot\_7, Dandelion\_6, LolaVinca\_7
- Track 2 : I3\_6
- Track 3 : Beenie\_52
- Track 4 : ChickenDinner\_81, TootsiePop\_77, Misha28\_77

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

The start number called the most often in the published annotations is 8, it was called in 8 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigCity\_7, DTDevon\_7, Dandelion\_6, Drazdys\_7, EggyFarm\_7, Grasshills\_7, I3\_6, InterFolia\_7, LolaVinca\_7, LordLeafolot\_7, Specks\_7, Tyke\_7,

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

- 

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

- Beenie\_52, ChickenDinner\_81, Misha28\_77, TootsiePop\_77,

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

Start 8:

- Found in 12 of 16 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 8 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigCity\_7 (C1), DTDevon\_7 (C1), Dandelion\_6 (C1), Drazdys\_7 (C1), EggyFarm\_7 (C1), Grasshills\_7 (C1), I3\_6 (C1), InterFolia\_7 (C1), LolaVinca\_7 (C1), LordLeafolot\_7 (C1), Specks\_7 (C1), Tyke\_7 (C1),

Start 10:

- Found in 1 of 16 ( 6.2% ) of genes in pham

- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beenie\_52 (CZ4),

Start 11:

- Found in 3 of 16 ( 18.8% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChickenDinner\_81 (F1), Misha28\_77 (F1), TootsiePop\_77 (F1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: F1, C1, CZ4,

Info for manual annotations of cluster C1:

- Start number 8 was manually annotated 8 times for cluster C1.

Info for manual annotations of cluster CZ4:

- Start number 10 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster F1:

- Start number 11 was manually annotated 2 times for cluster F1.

### **Gene Information:**

Gene: Beenie\_52 Start: 39328, Stop: 39618, Start Num: 10

Candidate Starts for Beenie\_52:

(6, 39298), (Start: 10 @39328 has 1 MA's), (13, 39400), (16, 39505),

Gene: BigCity\_7 Start: 2580, Stop: 2906, Start Num: 8

Candidate Starts for BigCity\_7:

(Start: 8 @2580 has 8 MA's), (12, 2646), (14, 2673),

Gene: ChickenDinner\_81 Start: 48860, Stop: 49174, Start Num: 11

Candidate Starts for ChickenDinner\_81:

(1, 48584), (2, 48701), (3, 48731), (5, 48791), (7, 48818), (9, 48854), (Start: 11 @48860 has 2 MA's), (12, 48911), (14, 48938), (15, 49031),

Gene: DTDevon\_7 Start: 2141, Stop: 2467, Start Num: 8

Candidate Starts for DTDevon\_7:

(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),

Gene: Dandelion\_6 Start: 2141, Stop: 2467, Start Num: 8

Candidate Starts for Dandelion\_6:

(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),

Gene: Drazdys\_7 Start: 2141, Stop: 2467, Start Num: 8

Candidate Starts for Drazdys\_7:

(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),

Gene: EggyFarm\_7 Start: 2580, Stop: 2906, Start Num: 8  
Candidate Starts for EggyFarm\_7:  
(Start: 8 @2580 has 8 MA's), (12, 2646), (14, 2673),

Gene: Grasshills\_7 Start: 2580, Stop: 2906, Start Num: 8  
Candidate Starts for Grasshills\_7:  
(Start: 8 @2580 has 8 MA's), (12, 2646), (14, 2673),

Gene: I3\_6 Start: 2115, Stop: 2441, Start Num: 8  
Candidate Starts for I3\_6:  
(4, 2070), (Start: 8 @2115 has 8 MA's), (12, 2181), (14, 2208),

Gene: InterFolia\_7 Start: 2141, Stop: 2467, Start Num: 8  
Candidate Starts for InterFolia\_7:  
(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),

Gene: LolaVinca\_7 Start: 2141, Stop: 2467, Start Num: 8  
Candidate Starts for LolaVinca\_7:  
(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),

Gene: LordLeafolot\_7 Start: 2141, Stop: 2467, Start Num: 8  
Candidate Starts for LordLeafolot\_7:  
(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),

Gene: Misha28\_77 Start: 49385, Stop: 49699, Start Num: 11  
Candidate Starts for Misha28\_77:  
(1, 49109), (2, 49226), (3, 49256), (5, 49316), (7, 49343), (9, 49379), (Start: 11 @49385 has 2 MA's),  
(12, 49436), (14, 49463), (15, 49556),

Gene: Specks\_7 Start: 2141, Stop: 2467, Start Num: 8  
Candidate Starts for Specks\_7:  
(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),

Gene: TootsiePop\_77 Start: 49385, Stop: 49699, Start Num: 11  
Candidate Starts for TootsiePop\_77:  
(1, 49109), (2, 49226), (3, 49256), (5, 49316), (7, 49343), (9, 49379), (Start: 11 @49385 has 2 MA's),  
(12, 49436), (14, 49463), (15, 49556),

Gene: Tyke\_7 Start: 2141, Stop: 2467, Start Num: 8  
Candidate Starts for Tyke\_7:  
(Start: 8 @2141 has 8 MA's), (12, 2207), (14, 2234),