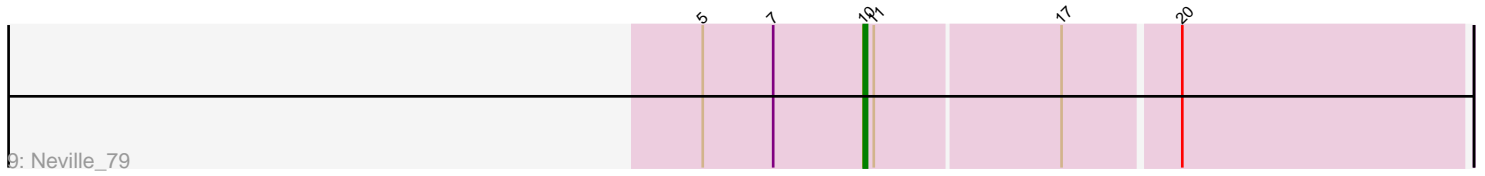
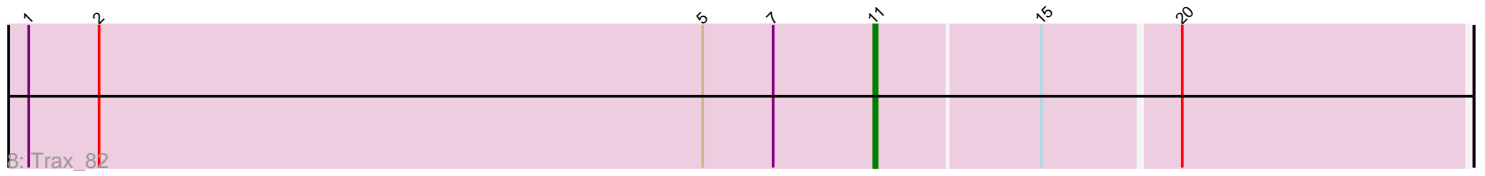
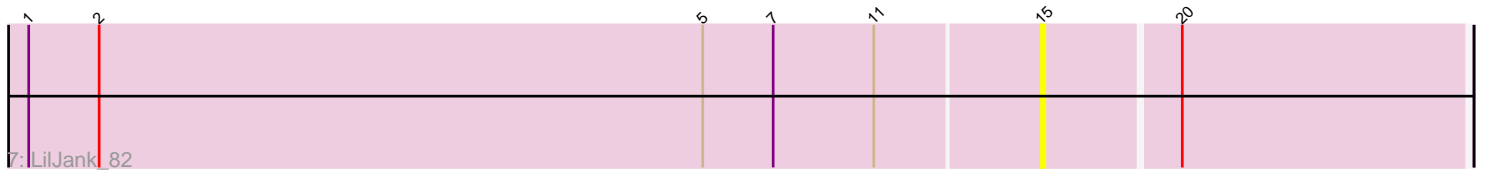
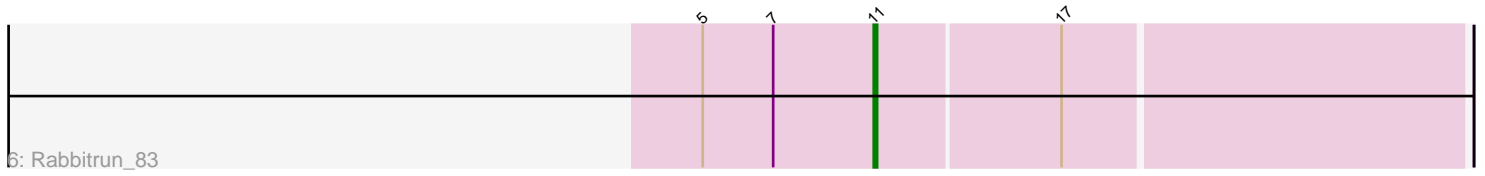
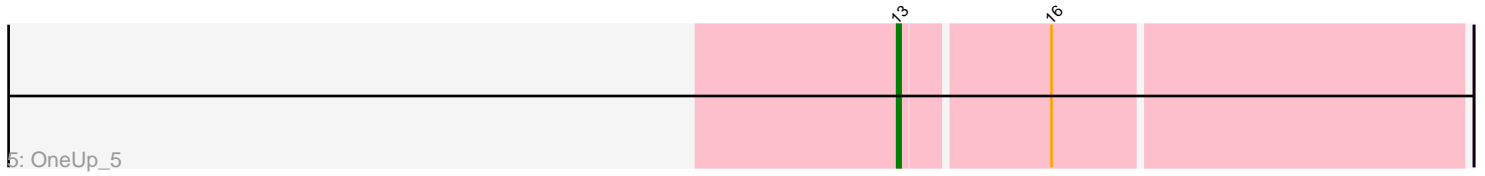
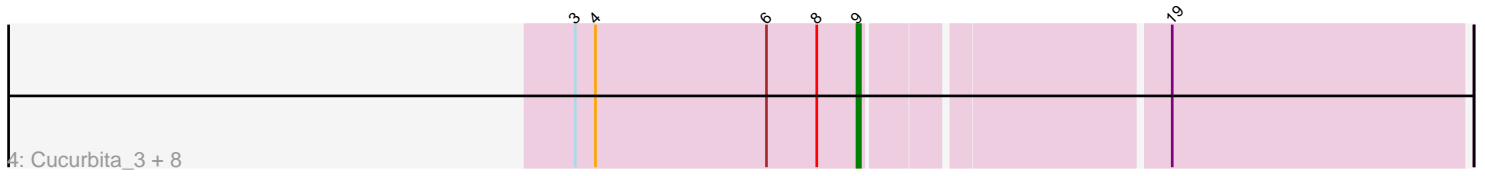
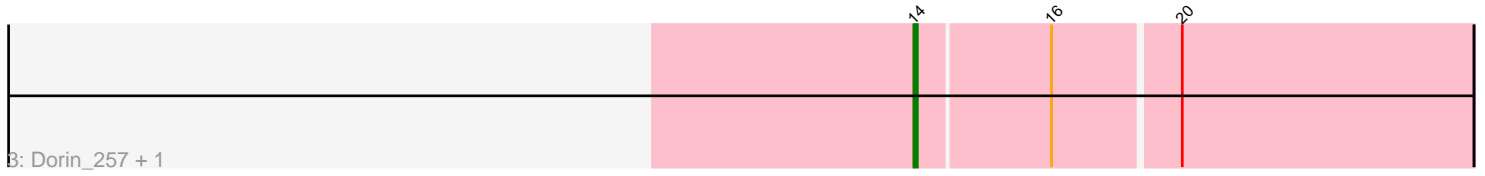
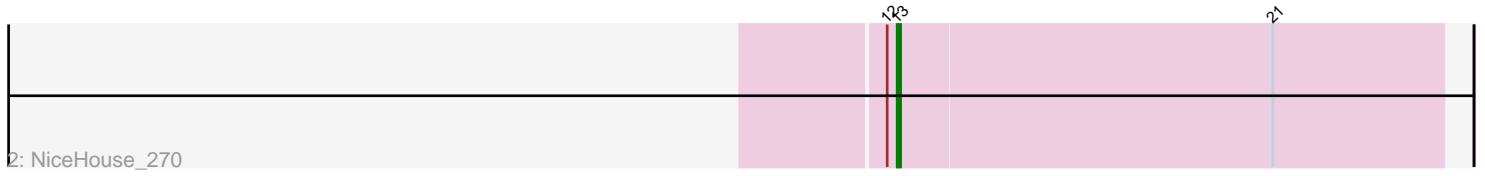
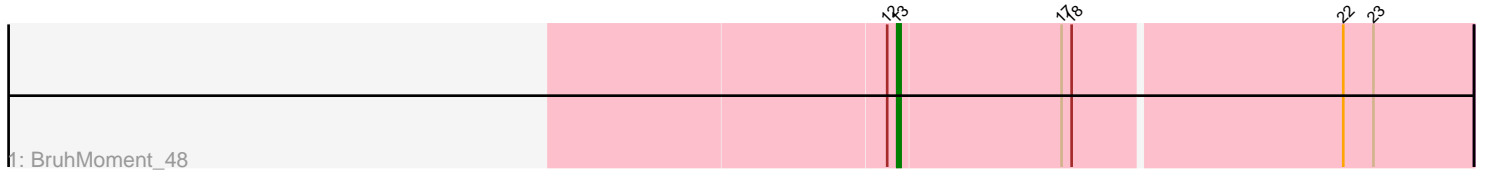


Pham 305355



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 305355 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305355 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : BruhMoment\_48
- Track 2 : NiceHouse\_270
- Track 3 : Dorin\_257, Francesca\_258
- Track 4 : Cucurbita\_3, Norvs\_3, ClubL\_3, Miskis\_2, Engineer\_3, Aphelion\_3, Lozinak\_3, Smoothie\_3, Toniann\_3
- Track 5 : OneUp\_5
- Track 6 : Rabbitrun\_83
- Track 7 : LilJank\_82
- Track 8 : Trax\_82
- Track 9 : Neville\_79

### ***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 9 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion\_3, ClubL\_3, Cucurbita\_3, Engineer\_3, Lozinak\_3, Miskis\_2, Norvs\_3, Smoothie\_3, Toniann\_3,

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

- 

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

- BruhMoment\_48, Dorin\_257, Francesca\_258, LilJank\_82, Neville\_79, NiceHouse\_270, OneUp\_5, Rabbitrun\_83, Trax\_82,

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

Start 9:

- Found in 9 of 18 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 9 of 17
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Aphelion\_3 (CQ1), ClubL\_3 (CQ1), Cucurbita\_3 (CQ1), Engineer\_3 (CQ1), Lozinak\_3 (CQ1), Miskis\_2 (CQ1), Norvs\_3 (CQ1), Smoothie\_3 (CQ1), Toniann\_3 (CQ1),

Start 10:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Neville\_79 (DU2),

Start 11:

- Found in 4 of 18 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Rabbitrun\_83 (DU2), Trax\_82 (DU2),

Start 13:

- Found in 3 of 18 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BruhMoment\_48 (AP3), NiceHouse\_270 (CE), OneUp\_5 (CQ2),

Start 14:

- Found in 2 of 18 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin\_257 (CG), Francesca\_258 (CG),

Start 15:

- Found in 2 of 18 ( 11.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: LilJank\_82 (DU2),

### **Summary by clusters:**

There are 6 clusters represented in this pham: AP3, CG, CE, CQ2, CQ1, DU2,

Info for manual annotations of cluster AP3:

- Start number 13 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster CE:

- Start number 13 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:

- Start number 14 was manually annotated 2 times for cluster CG.

Info for manual annotations of cluster CQ1:

- Start number 9 was manually annotated 9 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 13 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DU2:

- Start number 10 was manually annotated 1 time for cluster DU2.
- Start number 11 was manually annotated 2 times for cluster DU2.

**Gene Information:**

Gene: Aphelion\_3 Start: 715, Stop: 545, Start Num: 9

Candidate Starts for Aphelion\_3:

(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: BruhMoment\_48 Start: 39496, Stop: 39329, Start Num: 13

Candidate Starts for BruhMoment\_48:

(12, 39499), (Start: 13 @39496 has 3 MA's), (17, 39448), (18, 39445), (22, 39367), (23, 39358),

Gene: ClubL\_3 Start: 715, Stop: 545, Start Num: 9

Candidate Starts for ClubL\_3:

(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: Cucurbita\_3 Start: 715, Stop: 545, Start Num: 9

Candidate Starts for Cucurbita\_3:

(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: Dorin\_257 Start: 127433, Stop: 127594, Start Num: 14

Candidate Starts for Dorin\_257:

(Start: 14 @127433 has 2 MA's), (16, 127472), (20, 127508),

Gene: Engineer\_3 Start: 715, Stop: 545, Start Num: 9

Candidate Starts for Engineer\_3:

(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: Francesca\_258 Start: 128076, Stop: 128237, Start Num: 14

Candidate Starts for Francesca\_258:

(Start: 14 @128076 has 2 MA's), (16, 128115), (20, 128151),

Gene: LilJank\_82 Start: 51659, Stop: 51781, Start Num: 15

Candidate Starts for LilJank\_82:

(1, 51359), (2, 51380), (5, 51560), (7, 51581), (Start: 11 @51611 has 2 MA's), (15, 51659), (20, 51698),

Gene: Lozinak\_3 Start: 715, Stop: 545, Start Num: 9

Candidate Starts for Lozinak\_3:

(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: Miskis\_2 Start: 715, Stop: 545, Start Num: 9

Candidate Starts for Miskis\_2:

(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: Neville\_79 Start: 50225, Stop: 50398, Start Num: 10

Candidate Starts for Neville\_79:

(5, 50177), (7, 50198), (Start: 10 @50225 has 1 MA's), (Start: 11 @50228 has 2 MA's), (17, 50282), (20, 50315),

Gene: NiceHouse\_270 Start: 134252, Stop: 134413, Start Num: 13  
Candidate Starts for NiceHouse\_270:  
(12, 134249), (Start: 13 @134252 has 3 MA's), (21, 134363),

Gene: Norvs\_3 Start: 715, Stop: 545, Start Num: 9  
Candidate Starts for Norvs\_3:  
(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: OneUp\_5 Start: 1237, Stop: 1076, Start Num: 13  
Candidate Starts for OneUp\_5:  
(Start: 13 @1237 has 3 MA's), (16, 1195),

Gene: Rabbitrun\_83 Start: 50941, Stop: 51111, Start Num: 11  
Candidate Starts for Rabbitrun\_83:  
(5, 50890), (7, 50911), (Start: 11 @50941 has 2 MA's), (17, 50995),

Gene: Smoothie\_3 Start: 715, Stop: 545, Start Num: 9  
Candidate Starts for Smoothie\_3:  
(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: Toniann\_3 Start: 715, Stop: 545, Start Num: 9  
Candidate Starts for Toniann\_3:  
(3, 799), (4, 793), (6, 742), (8, 727), (Start: 9 @715 has 9 MA's), (19, 631),

Gene: Trax\_82 Start: 51235, Stop: 51405, Start Num: 11  
Candidate Starts for Trax\_82:  
(1, 50983), (2, 51004), (5, 51184), (7, 51205), (Start: 11 @51235 has 2 MA's), (15, 51283), (20, 51322),