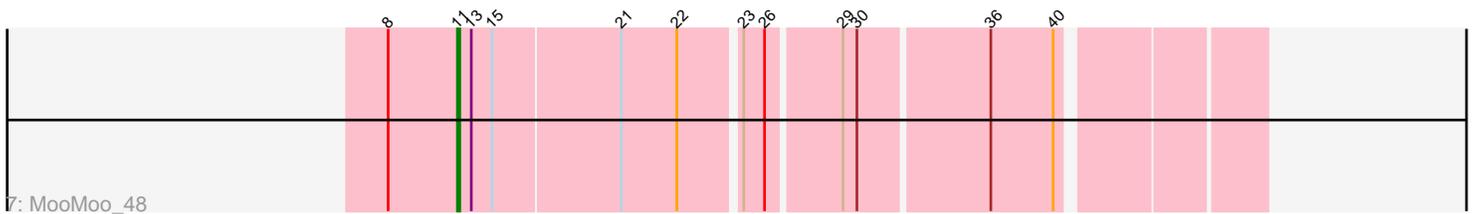
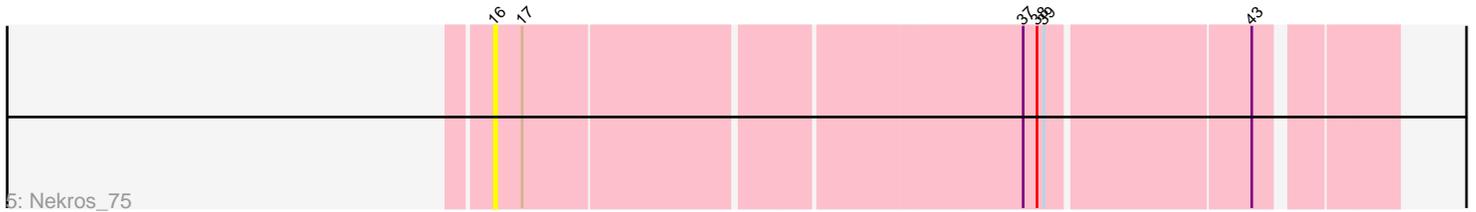
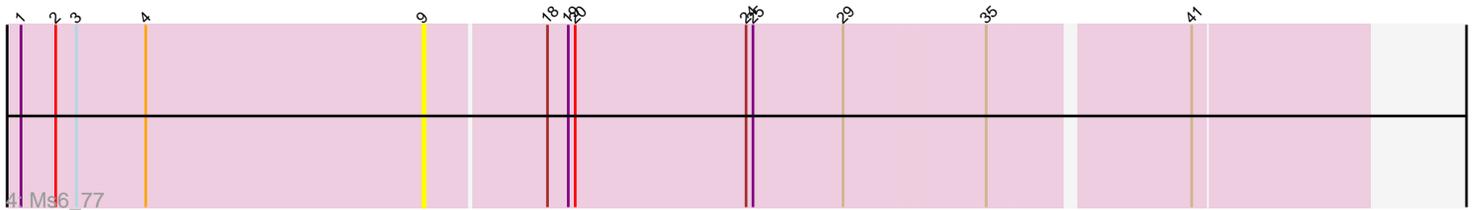
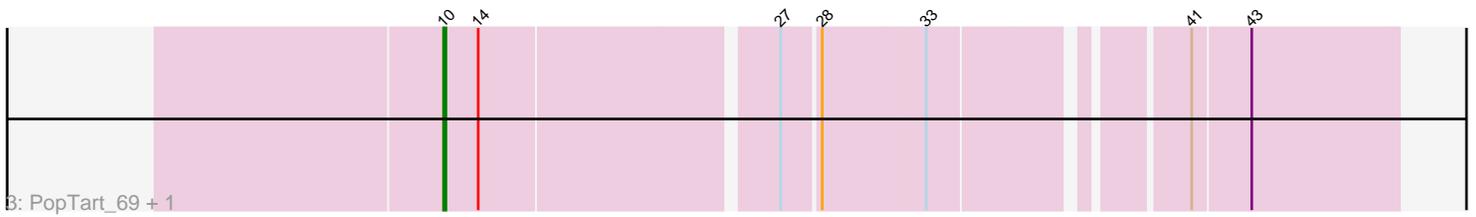
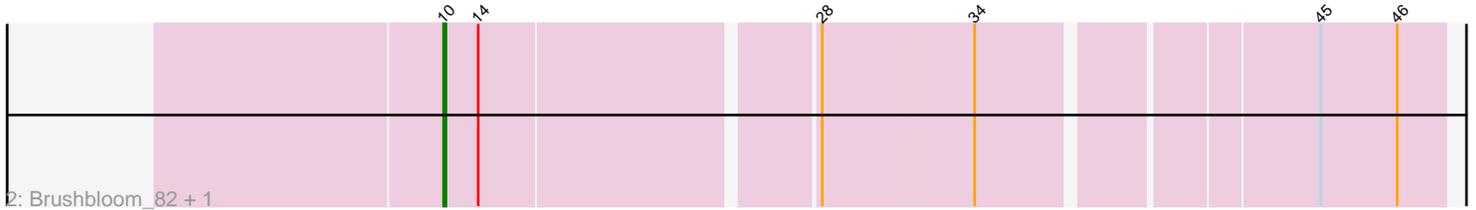


# Pham 291784



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 291784 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291784 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ringer\_61
- Track 2 : Brushbloom\_82, Cheesepuff\_86
- Track 3 : PopTart\_69, SassyB\_69
- Track 4 : Ms6\_77
- Track 5 : Nekros\_75
- Track 6 : Smooch\_23
- Track 7 : MooMoo\_48

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

The start number called the most often in the published annotations is 10, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Brushbloom\_82, Cheesepuff\_86, PopTart\_69, SassyB\_69,

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

- 

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

- MooMoo\_48, Ms6\_77, Nekros\_75, Ringer\_61, Smooch\_23,

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

Start 9:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ms6\_77 (F1),

Start 10:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Brushbloom\_82 (F1), Cheesepuff\_86 (F1), PopTart\_69 (F1), SassyB\_69 (F1),

Start 11:

- Found in 1 of 9 ( 11.1% ) 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: MooMoo\_48 (singleton),

Start 12:

- Found in 1 of 9 ( 11.1% ) 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: Smooch\_23 (O),

Start 16:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Nekros\_75 (J), Ringer\_61 (A1),

### **Summary by clusters:**

There are 5 clusters represented in this pham: A1, F1, singleton, J, O,

Info for manual annotations of cluster A1:

- Start number 16 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster F1:

- Start number 10 was manually annotated 4 times for cluster F1.

Info for manual annotations of cluster O:

- Start number 12 was manually annotated 1 time for cluster O.

### **Gene Information:**

Gene: Brushbloom\_82 Start: 49907, Stop: 50308, Start Num: 10

Candidate Starts for Brushbloom\_82:

(Start: 10 @49907 has 4 MA's), (14, 49922), (28, 50057), (34, 50120), (45, 50255), (46, 50288),

Gene: Cheesepuff\_86 Start: 48067, Stop: 48468, Start Num: 10

Candidate Starts for Cheesepuff\_86:

(Start: 10 @48067 has 4 MA's), (14, 48082), (28, 48217), (34, 48280), (45, 48415), (46, 48448),

Gene: MooMoo\_48 Start: 36030, Stop: 36353, Start Num: 11

Candidate Starts for MooMoo\_48:

(8, 36000), (Start: 11 @36030 has 1 MA's), (13, 36036), (15, 36045), (21, 36099), (22, 36123), (23, 36147), (26, 36156), (29, 36186), (30, 36192), (36, 36246), (40, 36273),

Gene: Ms6\_77 Start: 44192, Stop: 44584, Start Num: 9

Candidate Starts for Ms6\_77:

(1, 44018), (2, 44033), (3, 44042), (4, 44072), (9, 44192), (18, 44243), (19, 44252), (20, 44255), (24, 44327), (25, 44330), (29, 44369), (35, 44429), (41, 44510),

Gene: Nekros\_75 Start: 49878, Stop: 49516, Start Num: 16

Candidate Starts for Nekros\_75:

(Start: 16 @49878 has 1 MA's), (17, 49866), (37, 49662), (38, 49656), (39, 49653), (43, 49569),

Gene: PopTart\_69 Start: 45137, Stop: 45511, Start Num: 10

Candidate Starts for PopTart\_69:

(Start: 10 @45137 has 4 MA's), (14, 45152), (27, 45272), (28, 45287), (33, 45329), (41, 45425), (43, 45449),

Gene: Ringer\_61 Start: 42004, Stop: 41573, Start Num: 16

Candidate Starts for Ringer\_61:

(1, 42205), (6, 42061), (7, 42058), (Start: 16 @42004 has 1 MA's), (17, 41992), (31, 41842), (32, 41839), (39, 41782), (42, 41704), (43, 41692), (44, 41689),

Gene: SassyB\_69 Start: 45137, Stop: 45511, Start Num: 10

Candidate Starts for SassyB\_69:

(Start: 10 @45137 has 4 MA's), (14, 45152), (27, 45272), (28, 45287), (33, 45329), (41, 45425), (43, 45449),

Gene: Smooch\_23 Start: 10621, Stop: 10995, Start Num: 12

Candidate Starts for Smooch\_23:

(5, 10534), (8, 10591), (Start: 12 @10621 has 1 MA's), (Start: 16 @10633 has 1 MA's), (17, 10645), (28, 10765), (37, 10849), (38, 10855), (39, 10858), (43, 10942),