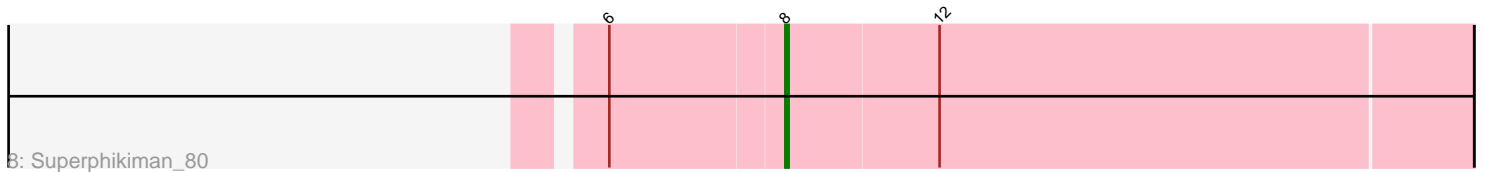
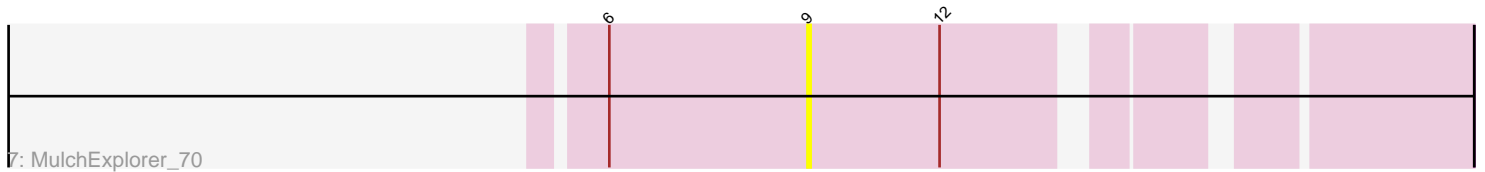
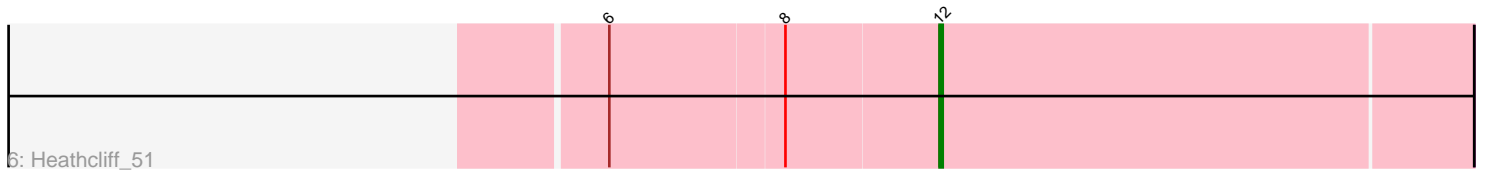
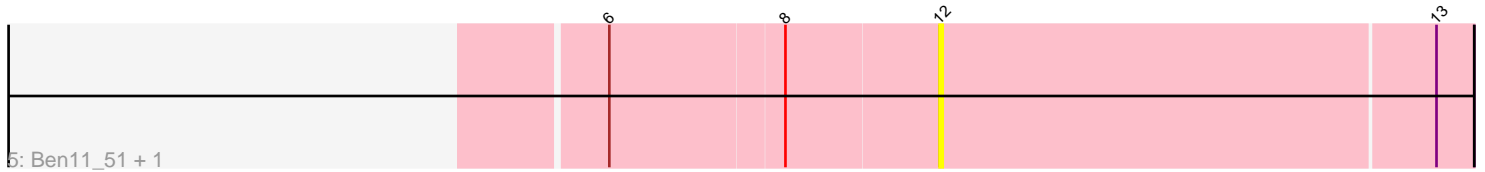
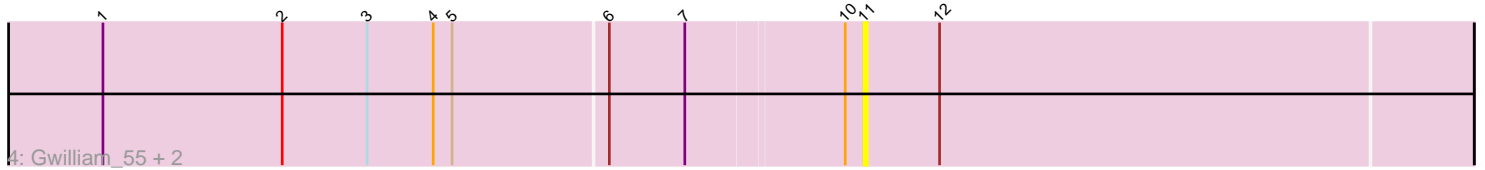
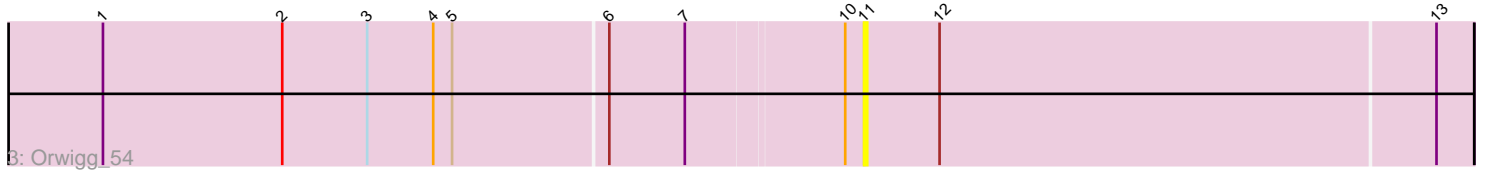
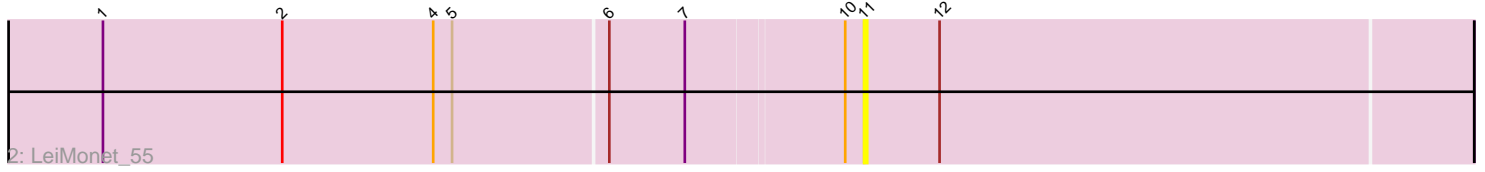
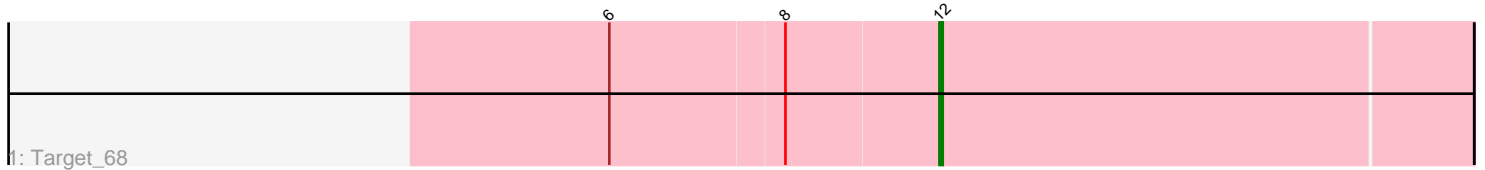


# Pham 196993



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 196993 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196993 has 12 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Target\_68
- Track 2 : LeiMonet\_55
- Track 3 : Orwigg\_54
- Track 4 : Gwilliam\_55, MrPhizzler\_54, Rimu\_57
- Track 5 : Ben11\_51, SlippinJimmy\_53
- Track 6 : Heathcliff\_51
- Track 7 : MulchExplorer\_70
- Track 8 : Superphikiman\_80
- Track 9 : Lilbit\_7

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

The start number called the most often in the published annotations is 12, it was called in 2 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ben11\_51, Heathcliff\_51, SlippinJimmy\_53, Target\_68,

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

- Gwilliam\_55, LeiMonet\_55, Lilbit\_7, MrPhizzler\_54, MulchExplorer\_70, Orwigg\_54, Rimu\_57, Superphikiman\_80,

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

- 

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

Start 8:

- Found in 5 of 12 ( 41.7% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Superphikiman\_80 (J),

Start 9:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilbit\_7 (S), MulchExplorer\_70 (F1),

Start 11:

- Found in 5 of 12 ( 41.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gwilliam\_55 (B1), LeiMonet\_55 (B1), MrPhizzler\_54 (B1), Orwigg\_54 (B1), Rimu\_57 (B1),

Start 12:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 3
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Ben11\_51 (B3), Heathcliff\_51 (B3), SlippinJimmy\_53 (B3), Target\_68 (A1),

### **Summary by clusters:**

There are 6 clusters represented in this pham: F1, J, A1, S, B1, B3,

Info for manual annotations of cluster A1:

- Start number 12 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster B3:

- Start number 12 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster J:

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

### **Gene Information:**

Gene: Ben11\_51 Start: 45593, Stop: 45426, Start Num: 12

Candidate Starts for Ben11\_51:

(6, 45695), (Start: 8 @45641 has 1 MA's), (Start: 12 @45593 has 2 MA's), (13, 45437),

Gene: Gwilliam\_55 Start: 47871, Stop: 47680, Start Num: 11

Candidate Starts for Gwilliam\_55:

(1, 48108), (2, 48051), (3, 48024), (4, 48003), (5, 47997), (6, 47949), (7, 47925), (10, 47877), (11, 47871), (Start: 12 @47847 has 2 MA's),

Gene: Heathcliff\_51 Start: 45274, Stop: 45107, Start Num: 12

Candidate Starts for Heathcliff\_51:

(6, 45376), (Start: 8 @45322 has 1 MA's), (Start: 12 @45274 has 2 MA's),

Gene: LeiMonet\_55 Start: 47494, Stop: 47303, Start Num: 11

Candidate Starts for LeiMonet\_55:

(1, 47731), (2, 47674), (4, 47626), (5, 47620), (6, 47572), (7, 47548), (10, 47500), (11, 47494), (Start: 12 @47470 has 2 MA's),

Gene: Lilbit\_7 Start: 2375, Stop: 2584, Start Num: 9

Candidate Starts for Lilbit\_7:

(6, 2312), (9, 2375), (Start: 12 @2417 has 2 MA's),

Gene: MrPhizzler\_54 Start: 47472, Stop: 47281, Start Num: 11

Candidate Starts for MrPhizzler\_54:

(1, 47709), (2, 47652), (3, 47625), (4, 47604), (5, 47598), (6, 47550), (7, 47526), (10, 47478), (11, 47472), (Start: 12 @47448 has 2 MA's),

Gene: MulchExplorer\_70 Start: 43157, Stop: 43342, Start Num: 9

Candidate Starts for MulchExplorer\_70:

(6, 43094), (9, 43157), (Start: 12 @43199 has 2 MA's),

Gene: Orwigg\_54 Start: 47496, Stop: 47305, Start Num: 11

Candidate Starts for Orwigg\_54:

(1, 47733), (2, 47676), (3, 47649), (4, 47628), (5, 47622), (6, 47574), (7, 47550), (10, 47502), (11, 47496), (Start: 12 @47472 has 2 MA's), (13, 47316),

Gene: Rimu\_57 Start: 47492, Stop: 47301, Start Num: 11

Candidate Starts for Rimu\_57:

(1, 47729), (2, 47672), (3, 47645), (4, 47624), (5, 47618), (6, 47570), (7, 47546), (10, 47498), (11, 47492), (Start: 12 @47468 has 2 MA's),

Gene: SlippinJimmy\_53 Start: 46540, Stop: 46373, Start Num: 12

Candidate Starts for SlippinJimmy\_53:

(6, 46642), (Start: 8 @46588 has 1 MA's), (Start: 12 @46540 has 2 MA's), (13, 46384),

Gene: Superphikiman\_80 Start: 49081, Stop: 48866, Start Num: 8

Candidate Starts for Superphikiman\_80:

(6, 49135), (Start: 8 @49081 has 1 MA's), (Start: 12 @49033 has 2 MA's),

Gene: Target\_68 Start: 42412, Stop: 42245, Start Num: 12

Candidate Starts for Target\_68:

(6, 42514), (Start: 8 @42460 has 1 MA's), (Start: 12 @42412 has 2 MA's),