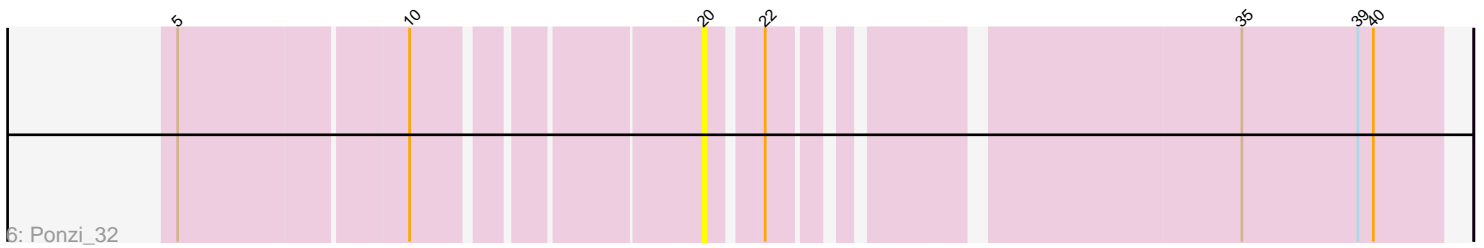
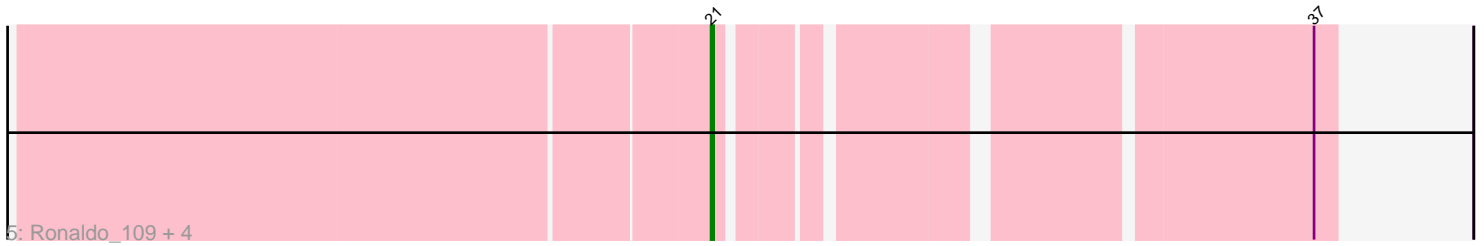
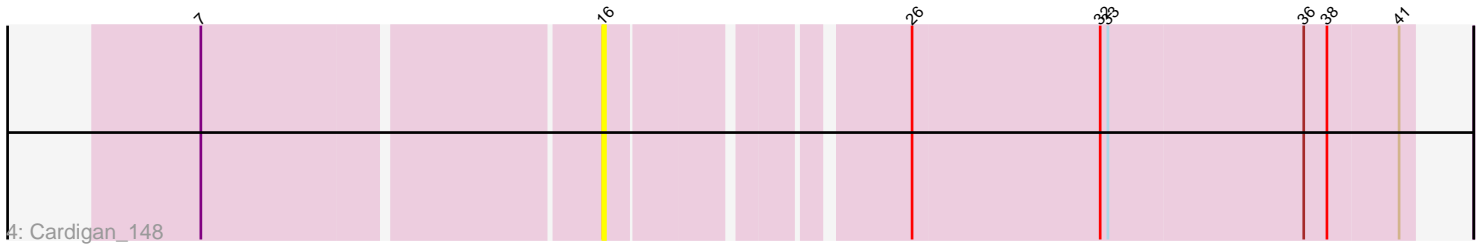
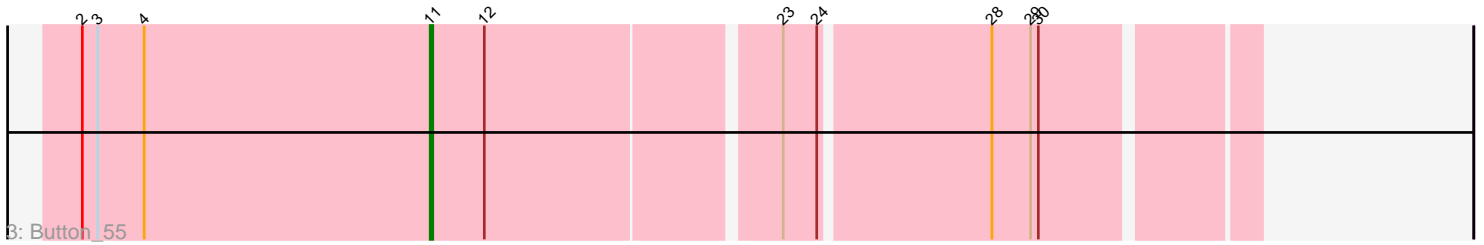
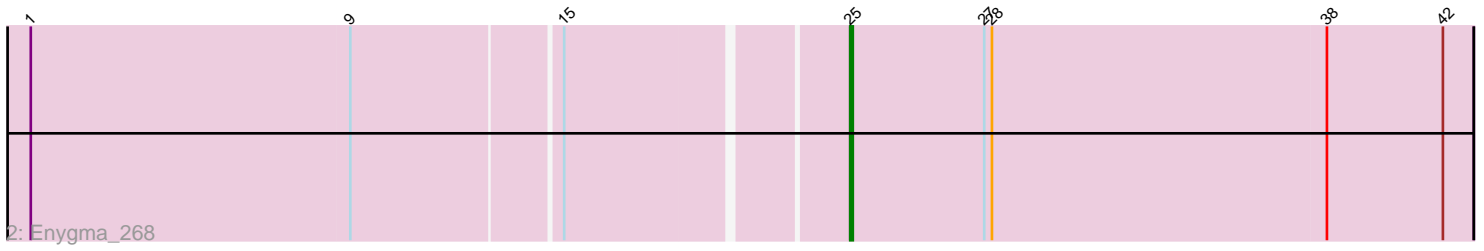
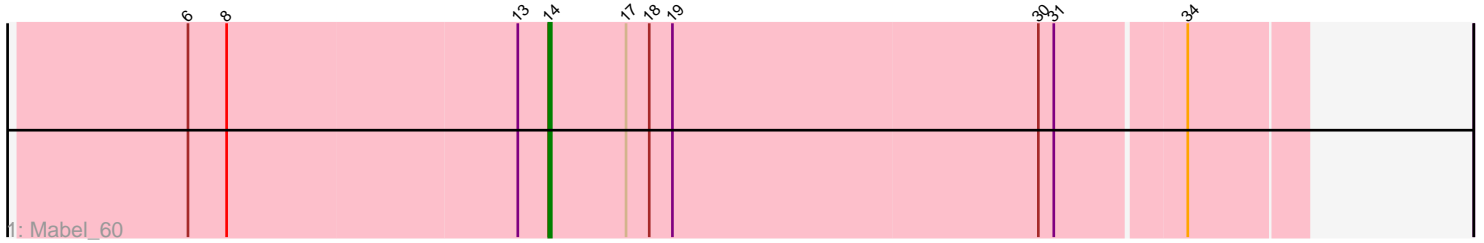


# Pham 191677



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 191677 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191677 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Mabel\_60
- Track 2 : Enygma\_268
- Track 3 : Button\_55
- Track 4 : Cardigan\_148
- Track 5 : Ronaldo\_109, Fryberger\_107, Guey18\_112, Volt\_111, Ziko\_110
- Track 6 : Ponzi\_32

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

The start number called the most often in the published annotations is 21, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Fryberger\_107, Guey18\_112, Ronaldo\_109, Volt\_111, Ziko\_110,

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

- 

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

- Button\_55, Cardigan\_148, Enygma\_268, Mabel\_60, Ponzi\_32,

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

Start 11:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button\_55 (CT),

Start 14:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mabel\_60 (A11),

Start 16:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan\_148 (DD),

Start 20:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ponzi\_32 (singleton),

Start 21:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger\_107 (DP), Guey18\_112 (DP), Ronaldo\_109 (DP), Volt\_111 (DP), Ziko\_110 (DP),

Start 25:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enygma\_268 (BE2),

**Summary by clusters:**

There are 6 clusters represented in this pham: singleton, A11, DD, BE2, DP, CT,

Info for manual annotations of cluster A11:

- Start number 14 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster BE2:

- Start number 25 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster CT:

- Start number 11 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DP:

- Start number 21 was manually annotated 5 times for cluster DP.

**Gene Information:**

Gene: Button\_55 Start: 37507, Stop: 37208, Start Num: 11

Candidate Starts for Button\_55:

(2, 37642), (3, 37636), (4, 37618), (Start: 11 @37507 has 1 MA's), (12, 37486), (23, 37378), (24, 37366), (28, 37303), (29, 37288), (30, 37285),

Gene: Cardigan\_148 Start: 81042, Stop: 81335, Start Num: 16

Candidate Starts for Cardigan\_148:

(7, 80895), (16, 81042), (26, 81144), (32, 81216), (33, 81219), (36, 81294), (38, 81303), (41, 81330),

Gene: Enygma\_268 Start: 121650, Stop: 121411, Start Num: 25

Candidate Starts for Enygma\_268:

(1, 121953), (9, 121830), (15, 121752), (Start: 25 @121650 has 1 MA's), (27, 121599), (28, 121596), (38, 121467), (42, 121422),

Gene: Fryberger\_107 Start: 52902, Stop: 53111, Start Num: 21

Candidate Starts for Fryberger\_107:

(Start: 21 @52902 has 5 MA's), (37, 53103),

Gene: Guey18\_112 Start: 54225, Stop: 54434, Start Num: 21

Candidate Starts for Guey18\_112:

(Start: 21 @54225 has 5 MA's), (37, 54426),

Gene: Mabel\_60 Start: 38750, Stop: 38463, Start Num: 14

Candidate Starts for Mabel\_60:

(6, 38888), (8, 38873), (13, 38762), (Start: 14 @38750 has 1 MA's), (17, 38720), (18, 38711), (19, 38702), (30, 38561), (31, 38555), (34, 38507),

Gene: Ponzi\_32 Start: 17781, Stop: 17527, Start Num: 20

Candidate Starts for Ponzi\_32:

(5, 17964), (10, 17880), (20, 17781), (22, 17763), (35, 17604), (39, 17559), (40, 17553),

Gene: Ronaldo\_109 Start: 53807, Stop: 54016, Start Num: 21

Candidate Starts for Ronaldo\_109:

(Start: 21 @53807 has 5 MA's), (37, 54008),

Gene: Volt\_111 Start: 53971, Stop: 54180, Start Num: 21

Candidate Starts for Volt\_111:

(Start: 21 @53971 has 5 MA's), (37, 54172),

Gene: Ziko\_110 Start: 53813, Stop: 54022, Start Num: 21

Candidate Starts for Ziko\_110:

(Start: 21 @53813 has 5 MA's), (37, 54014),