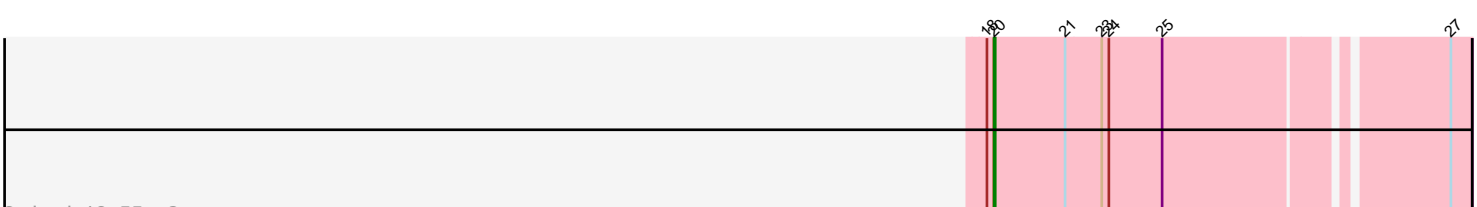
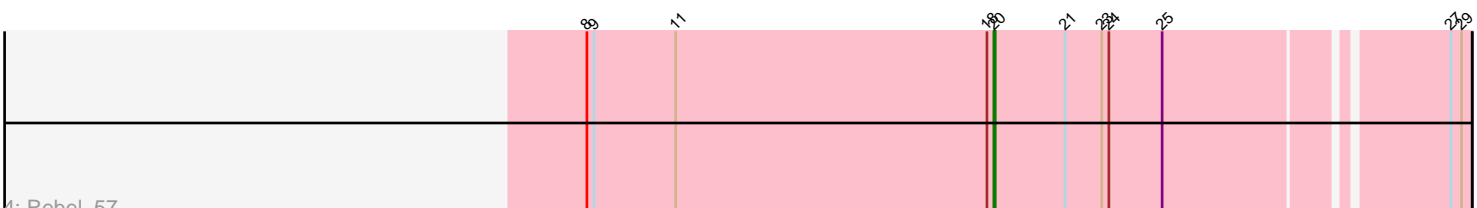
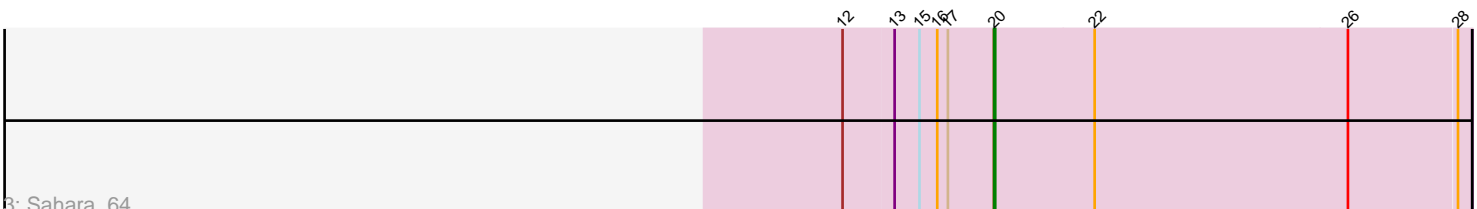
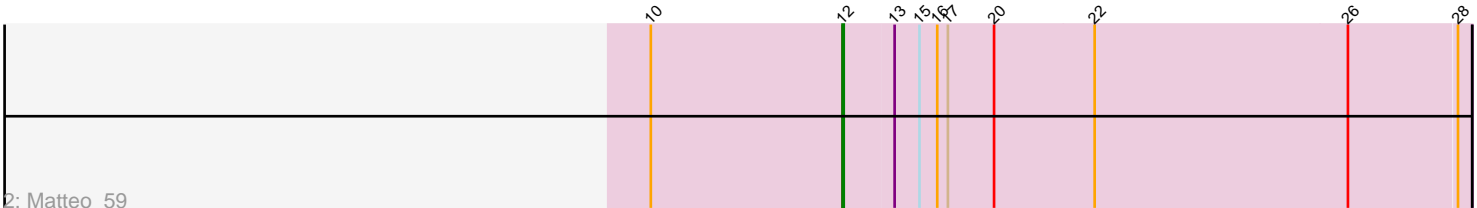
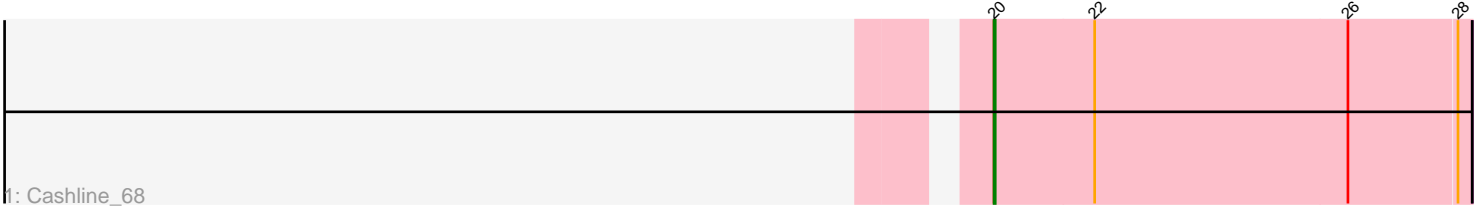


Pham 6132



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 6132 Report

This analysis was run 04/28/24 on database version 559.

Pham number 6132 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Cashline\_68
- Track 2 : Matteo\_59
- Track 3 : Sahara\_64
- Track 4 : Rebel\_57
- Track 5 : Kevin1\_62
- Track 6 : Jamie19\_55, Snekmaggedon\_55, SpongeBob\_55
- Track 7 : MichelleMyBell\_61

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

The start number called the most often in the published annotations is 20, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cashline\_68, Jamie19\_55, Kevin1\_62, Rebel\_57, Sahara\_64, Snekmaggedon\_55, SpongeBob\_55,

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

- Matteo\_59,

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

- MichelleMyBell\_61,

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

Start 12:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Matteo\_59 (CZ2),

Start 19:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: MichelleMyBell\_61 (N),

Start 20:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Cashline\_68 (CY), Jamie19\_55 (N), Kevin1\_62 (N), Rebel\_57 (N), Sahara\_64 (CZ2), Snekmaggon\_55 (N), SpongeBob\_55 (N),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CZ2, CY, N,

Info for manual annotations of cluster CY:

- Start number 20 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ2:

- Start number 12 was manually annotated 1 time for cluster CZ2.
- Start number 20 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster N:

- Start number 19 was manually annotated 1 time for cluster N.
- Start number 20 was manually annotated 5 times for cluster N.

### **Gene Information:**

Gene: Cashline\_68 Start: 47626, Stop: 48024, Start Num: 20

Candidate Starts for Cashline\_68:

(Start: 20 @47626 has 7 MA's), (22, 47710), (26, 47923), (28, 48013),

Gene: Jamie19\_55 Start: 36559, Stop: 36936, Start Num: 20

Candidate Starts for Jamie19\_55:

(18, 36553), (Start: 20 @36559 has 7 MA's), (21, 36619), (23, 36649), (24, 36655), (25, 36700), (27, 36919),

Gene: Kevin1\_62 Start: 37674, Stop: 38051, Start Num: 20

Candidate Starts for Kevin1\_62:

(1, 36843), (2, 36915), (3, 36936), (4, 37122), (5, 37134), (6, 37275), (7, 37284), (14, 37596), (18, 37668), (Start: 20 @37674 has 7 MA's), (21, 37734), (23, 37764), (24, 37770), (25, 37815), (27, 38034), (29, 38043),

Gene: Matteo\_59 Start: 39463, Stop: 39987, Start Num: 12

Candidate Starts for Matteo\_59:

(10, 39301), (Start: 12 @39463 has 1 MA's), (13, 39505), (15, 39526), (16, 39541), (17, 39550), (Start: 20 @39589 has 7 MA's), (22, 39673), (26, 39886), (28, 39976),

Gene: MichelleMyBell\_61 Start: 37522, Stop: 37899, Start Num: 19

Candidate Starts for MichelleMyBell\_61:

(Start: 19 @37522 has 1 MA's), (21, 37582), (23, 37612), (24, 37618), (25, 37663), (27, 37882), (29, 37891),

Gene: Rebel\_57 Start: 35984, Stop: 36361, Start Num: 20

Candidate Starts for Rebel\_57:

(8, 35642), (9, 35648), (11, 35717), (18, 35978), (Start: 20 @35984 has 7 MA's), (21, 36044), (23, 36074), (24, 36080), (25, 36125), (27, 36344), (29, 36353),

Gene: Sahara\_64 Start: 40869, Stop: 41267, Start Num: 20

Candidate Starts for Sahara\_64:

(Start: 12 @40743 has 1 MA's), (13, 40785), (15, 40806), (16, 40821), (17, 40830), (Start: 20 @40869 has 7 MA's), (22, 40953), (26, 41166), (28, 41256),

Gene: Snekmaggedon\_55 Start: 36559, Stop: 36936, Start Num: 20

Candidate Starts for Snekmaggedon\_55:

(18, 36553), (Start: 20 @36559 has 7 MA's), (21, 36619), (23, 36649), (24, 36655), (25, 36700), (27, 36919),

Gene: SpongeBob\_55 Start: 36559, Stop: 36936, Start Num: 20

Candidate Starts for SpongeBob\_55:

(18, 36553), (Start: 20 @36559 has 7 MA's), (21, 36619), (23, 36649), (24, 36655), (25, 36700), (27, 36919),