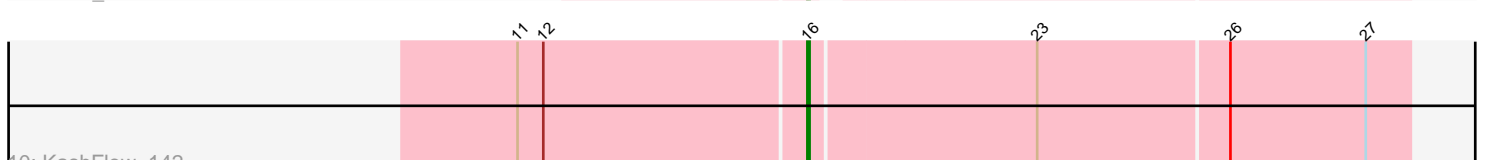
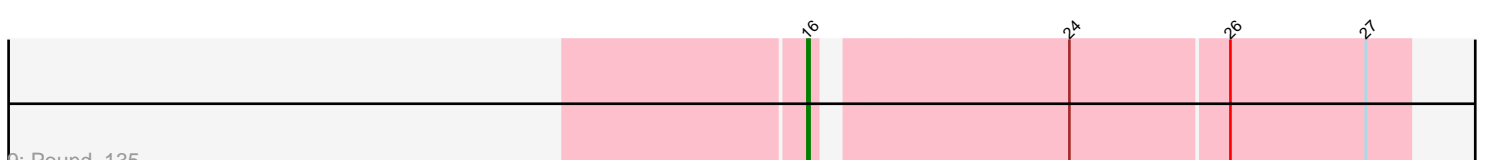
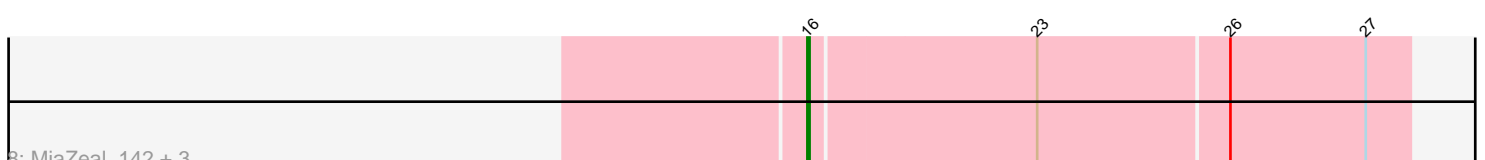
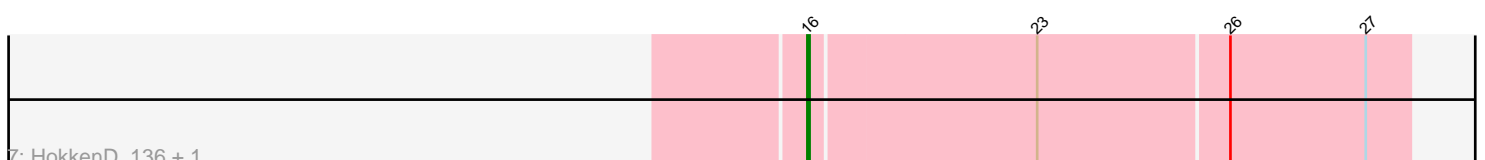
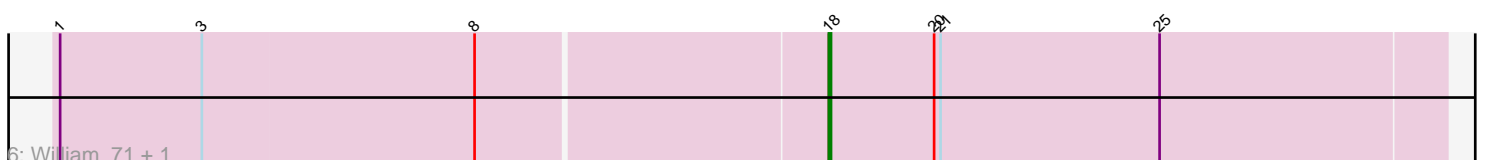
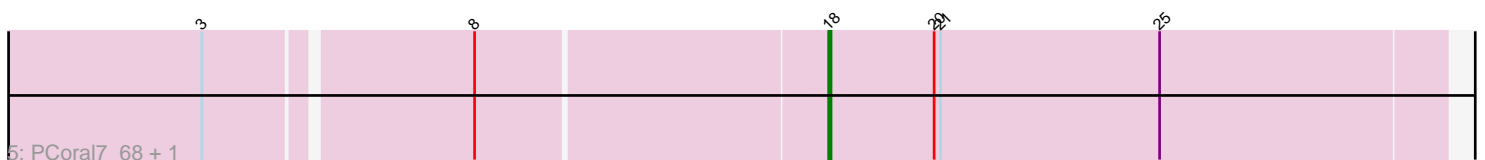
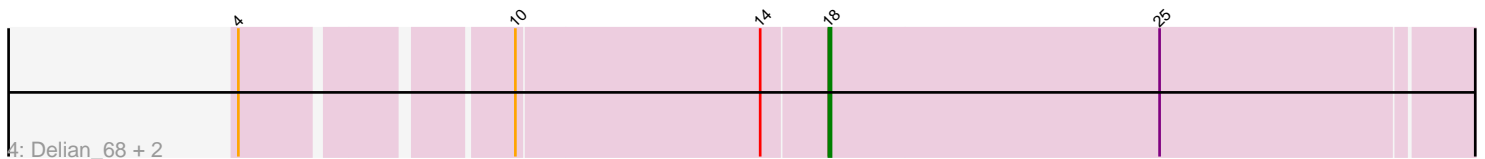
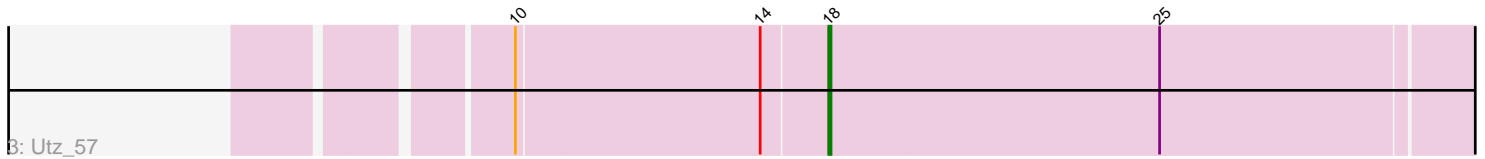
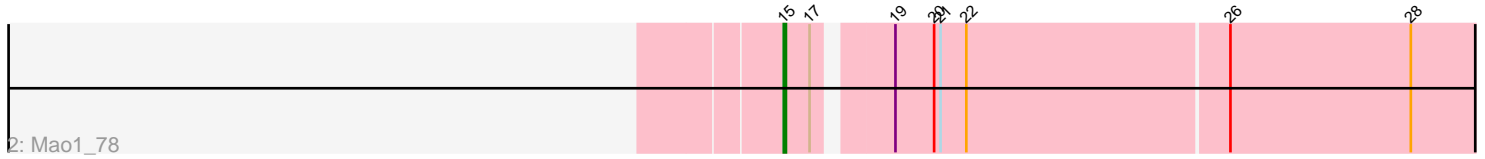
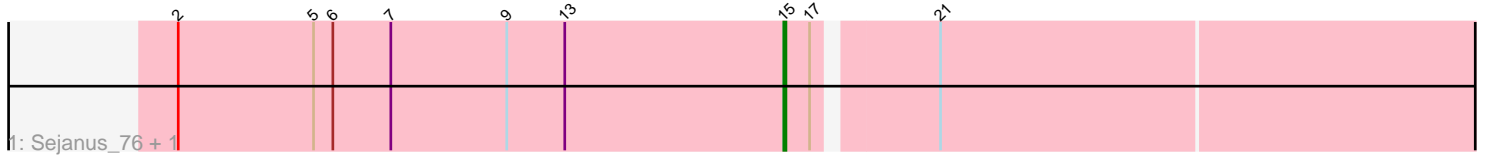


# Pham 4232



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 4232 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4232 has 19 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Sejanus\_76, Mask\_77
- Track 2 : Mao1\_78
- Track 3 : Utz\_57
- Track 4 : Delian\_68, CaptainKirk2\_65, MintFen\_65
- Track 5 : PCoral7\_68, Toast\_68
- Track 6 : William\_71, PrincePatrick\_69
- Track 7 : HokkenD\_136, Yeet\_137
- Track 8 : MiaZeal\_142, Redno2\_138, Porcelain\_139, Lucky2013\_135
- Track 9 : Pound\_135
- Track 10 : KashFlow\_142

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

The start number called the most often in the published annotations is 16, it was called in 8 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- HokkenD\_136, KashFlow\_142, Lucky2013\_135, MiaZeal\_142, Porcelain\_139, Pound\_135, Redno2\_138, Yeet\_137,

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

- 

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

- CaptainKirk2\_65, Delian\_68, Mao1\_78, Mask\_77, MintFen\_65, PCoral7\_68, PrincePatrick\_69, Sejanus\_76, Toast\_68, Utz\_57, William\_71,

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

Start 15:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Mao1\_78 (AD), Mask\_77 (AD), Sejanus\_76 (AD),

Start 16:

- Found in 8 of 19 ( 42.1% ) of genes in pham
- Manual Annotations of this start: 8 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HokkenD\_136 (J), KashFlow\_142 (J), Lucky2013\_135 (J), MiaZeal\_142 (J), Porcelain\_139 (J), Pound\_135 (J), Redno2\_138 (J), Yeet\_137 (J),

Start 18:

- Found in 8 of 19 ( 42.1% ) of genes in pham
- Manual Annotations of this start: 8 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CaptainKirk2\_65 (CV), Delian\_68 (CV), MintFen\_65 (CV), PCoral7\_68 (CV), PrincePatrick\_69 (CV), Toast\_68 (CV), Utz\_57 (CV), William\_71 (CV),

### **Summary by clusters:**

There are 3 clusters represented in this pham: J, CV, AD,

Info for manual annotations of cluster AD:

- Start number 15 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster CV:

- Start number 18 was manually annotated 8 times for cluster CV.

Info for manual annotations of cluster J:

- Start number 16 was manually annotated 8 times for cluster J.

### **Gene Information:**

Gene: CaptainKirk2\_65 Start: 40626, Stop: 40928, Start Num: 18

Candidate Starts for CaptainKirk2\_65:

(4, 40374), (10, 40485), (14, 40596), (Start: 18 @40626 has 8 MA's), (25, 40779),

Gene: Delian\_68 Start: 40624, Stop: 40926, Start Num: 18

Candidate Starts for Delian\_68:

(4, 40372), (10, 40483), (14, 40594), (Start: 18 @40624 has 8 MA's), (25, 40777),

Gene: HokkenD\_136 Start: 76436, Stop: 76708, Start Num: 16

Candidate Starts for HokkenD\_136:

(Start: 16 @76436 has 8 MA's), (23, 76538), (26, 76625), (27, 76688),

Gene: KashFlow\_142 Start: 75468, Stop: 75740, Start Num: 16

Candidate Starts for KashFlow\_142:

(11, 75336), (12, 75348), (Start: 16 @75468 has 8 MA's), (23, 75570), (26, 75657), (27, 75720),

Gene: Lucky2013\_135 Start: 72522, Stop: 72794, Start Num: 16

Candidate Starts for Lucky2013\_135:  
(Start: 16 @72522 has 8 MA's), (23, 72624), (26, 72711), (27, 72774),

Gene: Mao1\_78 Start: 55083, Stop: 55418, Start Num: 15  
Candidate Starts for Mao1\_78:  
(Start: 15 @55083 has 3 MA's), (17, 55095), (19, 55125), (20, 55143), (21, 55146), (22, 55158), (26, 55278), (28, 55362),

Gene: Mask\_77 Start: 57220, Stop: 57558, Start Num: 15  
Candidate Starts for Mask\_77:  
(2, 56938), (5, 57001), (6, 57010), (7, 57037), (9, 57091), (13, 57118), (Start: 15 @57220 has 3 MA's), (17, 57232), (21, 57283),

Gene: MiaZeal\_142 Start: 73661, Stop: 73933, Start Num: 16  
Candidate Starts for MiaZeal\_142:  
(Start: 16 @73661 has 8 MA's), (23, 73763), (26, 73850), (27, 73913),

Gene: MintFen\_65 Start: 41240, Stop: 41542, Start Num: 18  
Candidate Starts for MintFen\_65:  
(4, 40988), (10, 41099), (14, 41210), (Start: 18 @41240 has 8 MA's), (25, 41393),

Gene: PCoral7\_68 Start: 43256, Stop: 43540, Start Num: 18  
Candidate Starts for PCoral7\_68:  
(3, 42986), (8, 43103), (Start: 18 @43256 has 8 MA's), (20, 43304), (21, 43307), (25, 43409),

Gene: Porcelain\_139 Start: 73468, Stop: 73740, Start Num: 16  
Candidate Starts for Porcelain\_139:  
(Start: 16 @73468 has 8 MA's), (23, 73570), (26, 73657), (27, 73720),

Gene: Pound\_135 Start: 76229, Stop: 76492, Start Num: 16  
Candidate Starts for Pound\_135:  
(Start: 16 @76229 has 8 MA's), (24, 76337), (26, 76409), (27, 76472),

Gene: PrincePatrick\_69 Start: 42315, Stop: 42599, Start Num: 18  
Candidate Starts for PrincePatrick\_69:  
(1, 41970), (3, 42036), (8, 42162), (Start: 18 @42315 has 8 MA's), (20, 42363), (21, 42366), (25, 42468),

Gene: Redno2\_138 Start: 74509, Stop: 74781, Start Num: 16  
Candidate Starts for Redno2\_138:  
(Start: 16 @74509 has 8 MA's), (23, 74611), (26, 74698), (27, 74761),

Gene: Sejanus\_76 Start: 55681, Stop: 56019, Start Num: 15  
Candidate Starts for Sejanus\_76:  
(2, 55399), (5, 55462), (6, 55471), (7, 55498), (9, 55552), (13, 55579), (Start: 15 @55681 has 3 MA's), (17, 55693), (21, 55744),

Gene: Toast\_68 Start: 43256, Stop: 43540, Start Num: 18  
Candidate Starts for Toast\_68:  
(3, 42986), (8, 43103), (Start: 18 @43256 has 8 MA's), (20, 43304), (21, 43307), (25, 43409),

Gene: Utz\_57 Start: 41209, Stop: 41511, Start Num: 18  
Candidate Starts for Utz\_57:

(10, 41068), (14, 41179), (Start: 18 @41209 has 8 MA's), (25, 41362),

Gene: William\_71 Start: 44663, Stop: 44947, Start Num: 18

Candidate Starts for William\_71:

(1, 44318), (3, 44384), (8, 44510), (Start: 18 @44663 has 8 MA's), (20, 44711), (21, 44714), (25, 44816),

Gene: Yeet\_137 Start: 76465, Stop: 76737, Start Num: 16

Candidate Starts for Yeet\_137:

(Start: 16 @76465 has 8 MA's), (23, 76567), (26, 76654), (27, 76717),