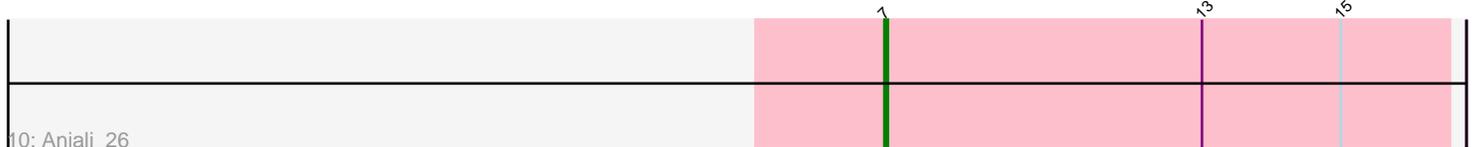
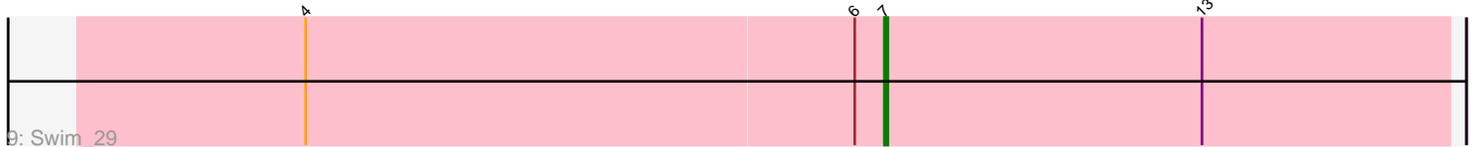
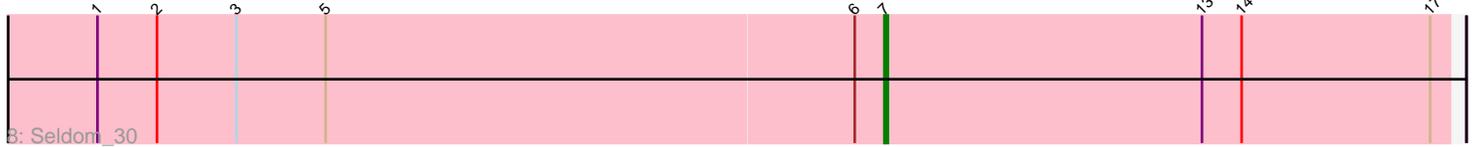
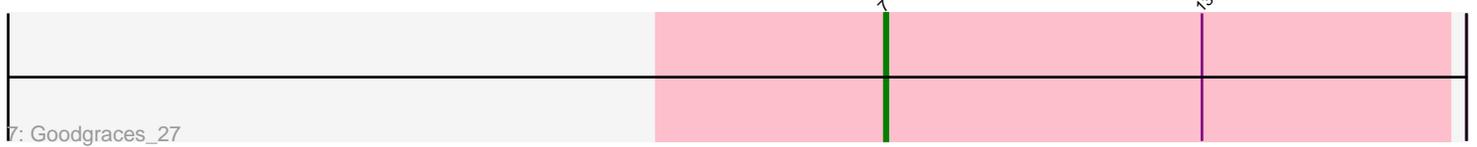
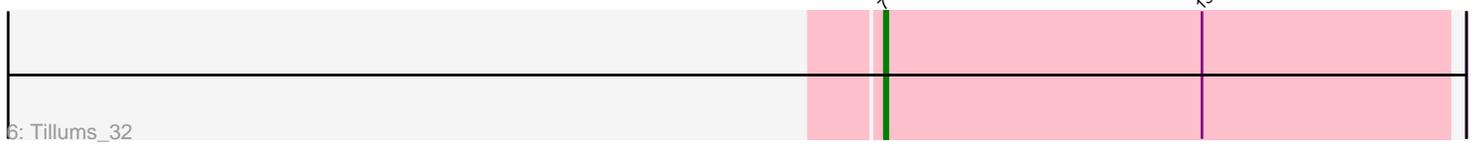
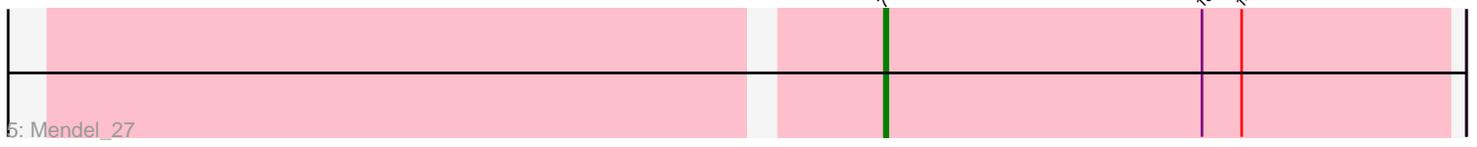
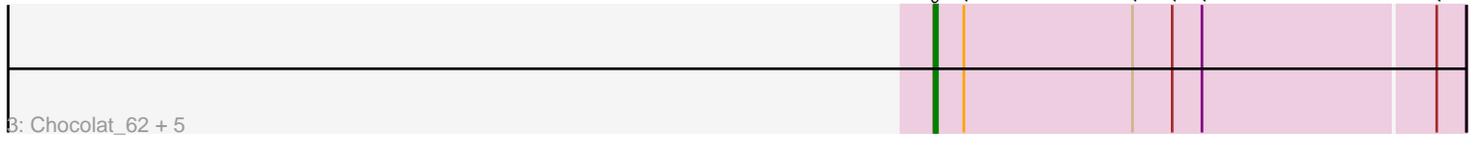


Pham 291616



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 291616 Report

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

Pham number 291616 has 17 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Nikan\_61
- Track 2 : Kabreeze\_62, HumptyDumpty\_62, Linus\_62
- Track 3 : Chocolat\_62, Colucci\_64, RosiePosie\_61, Chubster\_63, MoyaNatalis\_62, JayCookie\_63
- Track 4 : KBurrousTX\_62
- Track 5 : Mendel\_27
- Track 6 : Tillums\_32
- Track 7 : Goodgraces\_27
- Track 8 : Seldom\_30
- Track 9 : Swim\_29
- Track 10 : Anjali\_26

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

The start number called the most often in the published annotations is 7, it was called in 6 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anjali\_26, Goodgraces\_27, Mendel\_27, Seldom\_30, Swim\_29, Tillums\_32,

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

- 

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

- Chocolat\_62, Chubster\_63, Colucci\_64, HumptyDumpty\_62, JayCookie\_63, KBurrousTX\_62, Kabreeze\_62, Linus\_62, MoyaNatalis\_62, Nikan\_61, RosiePosie\_61,

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

Start 7:

- Found in 6 of 17 ( 35.3% ) of genes in pham
- Manual Annotations of this start: 6 of 15
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Anjali\_26 (FD), Goodgraces\_27 (FD), Mendel\_27 (FD), Seldom\_30 (FD), Swim\_29 (FD), Tillums\_32 (FD),

Start 8:

- Found in 10 of 17 ( 58.8% ) of genes in pham
- Manual Annotations of this start: 5 of 15
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Chocolat\_62 (AR), Chubster\_63 (AR), Colucci\_64 (AR), JayCookie\_63 (AR), MoyaNatalis\_62 (AR), RosiePosie\_61 (AR),

Start 9:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nikan\_61 (AP2),

Start 10:

- Found in 10 of 17 ( 58.8% ) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 40.0% of time when present
- Phage (with cluster) where this start called: HumptyDumpty\_62 (AR), KBurrousTX\_62 (AR), Kabreeze\_62 (AR), Linus\_62 (AR),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AP2, AR, FD,

Info for manual annotations of cluster AR:

- Start number 8 was manually annotated 5 times for cluster AR.
- Start number 10 was manually annotated 4 times for cluster AR.

Info for manual annotations of cluster FD:

- Start number 7 was manually annotated 6 times for cluster FD.

### **Gene Information:**

Gene: Anjali\_26 Start: 19029, Stop: 19199, Start Num: 7

Candidate Starts for Anjali\_26:

(Start: 7 @19029 has 6 MA's), (13, 19125), (15, 19167),

Gene: Chocolat\_62 Start: 44717, Stop: 44875, Start Num: 8

Candidate Starts for Chocolat\_62:

(Start: 8 @44717 has 5 MA's), (Start: 10 @44726 has 4 MA's), (11, 44777), (12, 44789), (13, 44798), (18, 44867),

Gene: Chubster\_63 Start: 44869, Stop: 45027, Start Num: 8

Candidate Starts for Chubster\_63:

(Start: 8 @44869 has 5 MA's), (Start: 10 @44878 has 4 MA's), (11, 44929), (12, 44941), (13, 44950), (18, 45019),

Gene: Colucci\_64 Start: 44773, Stop: 44931, Start Num: 8

Candidate Starts for Colucci\_64:

(Start: 8 @44773 has 5 MA's), (Start: 10 @44782 has 4 MA's), (11, 44833), (12, 44845), (13, 44854), (18, 44923),

Gene: Goodgraces\_27 Start: 19369, Stop: 19539, Start Num: 7

Candidate Starts for Goodgraces\_27:

(Start: 7 @19369 has 6 MA's), (13, 19465),

Gene: HumptyDumpty\_62 Start: 44665, Stop: 44814, Start Num: 10

Candidate Starts for HumptyDumpty\_62:

(Start: 8 @44656 has 5 MA's), (Start: 10 @44665 has 4 MA's), (11, 44716), (12, 44728), (13, 44737), (18, 44806),

Gene: JayCookie\_63 Start: 45128, Stop: 45286, Start Num: 8

Candidate Starts for JayCookie\_63:

(Start: 8 @45128 has 5 MA's), (Start: 10 @45137 has 4 MA's), (11, 45188), (12, 45200), (13, 45209), (18, 45278),

Gene: KBurrousTX\_62 Start: 46014, Stop: 46151, Start Num: 10

Candidate Starts for KBurrousTX\_62:

(Start: 8 @46005 has 5 MA's), (Start: 10 @46014 has 4 MA's), (11, 46065), (13, 46086), (16, 46137),

Gene: Kabreeze\_62 Start: 44744, Stop: 44893, Start Num: 10

Candidate Starts for Kabreeze\_62:

(Start: 8 @44735 has 5 MA's), (Start: 10 @44744 has 4 MA's), (11, 44795), (12, 44807), (13, 44816), (18, 44885),

Gene: Linus\_62 Start: 44867, Stop: 45016, Start Num: 10

Candidate Starts for Linus\_62:

(Start: 8 @44858 has 5 MA's), (Start: 10 @44867 has 4 MA's), (11, 44918), (12, 44930), (13, 44939), (18, 45008),

Gene: Mendel\_27 Start: 18777, Stop: 18947, Start Num: 7

Candidate Starts for Mendel\_27:

(Start: 7 @18777 has 6 MA's), (13, 18873), (14, 18885),

Gene: MoyaNatalis\_62 Start: 44704, Stop: 44862, Start Num: 8

Candidate Starts for MoyaNatalis\_62:

(Start: 8 @44704 has 5 MA's), (Start: 10 @44713 has 4 MA's), (11, 44764), (12, 44776), (13, 44785), (18, 44854),

Gene: Nikan\_61 Start: 41306, Stop: 41169, Start Num: 9

Candidate Starts for Nikan\_61:

(9, 41306),

Gene: RosiePosie\_61 Start: 44394, Stop: 44552, Start Num: 8

Candidate Starts for RosiePosie\_61:

(Start: 8 @44394 has 5 MA's), (Start: 10 @44403 has 4 MA's), (11, 44454), (12, 44466), (13, 44475), (18, 44544),

Gene: Seldom\_30 Start: 19394, Stop: 19564, Start Num: 7

Candidate Starts for Seldom\_30:

(1, 19157), (2, 19175), (3, 19199), (5, 19226), (6, 19385), (Start: 7 @19394 has 6 MA's), (13, 19490),  
(14, 19502), (17, 19559),

Gene: Swim\_29 Start: 19312, Stop: 19482, Start Num: 7

Candidate Starts for Swim\_29:

(4, 19138), (6, 19303), (Start: 7 @19312 has 6 MA's), (13, 19408),

Gene: Tillums\_32 Start: 19724, Stop: 19894, Start Num: 7

Candidate Starts for Tillums\_32:

(Start: 7 @19724 has 6 MA's), (13, 19820),