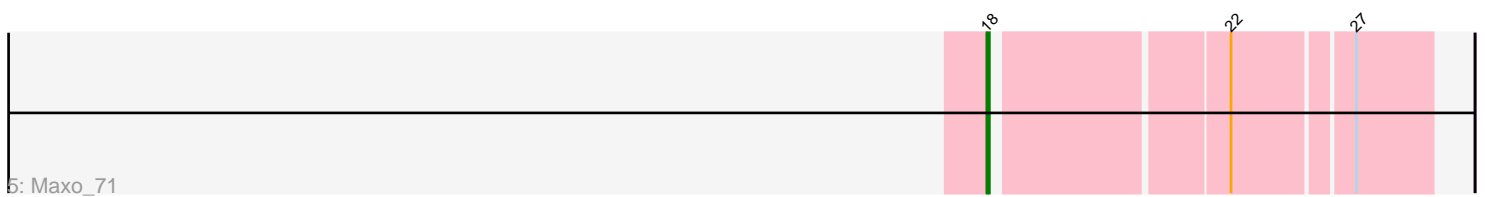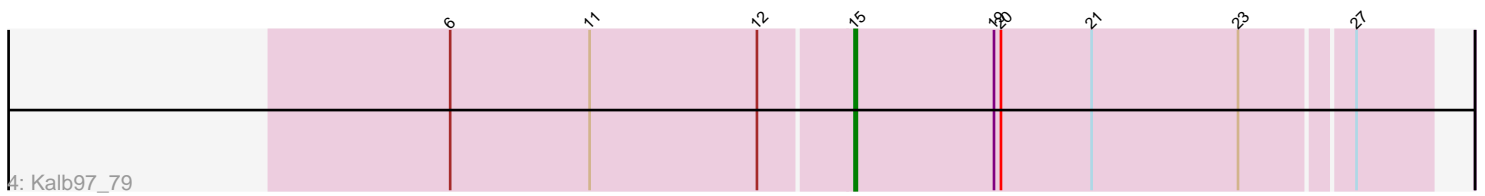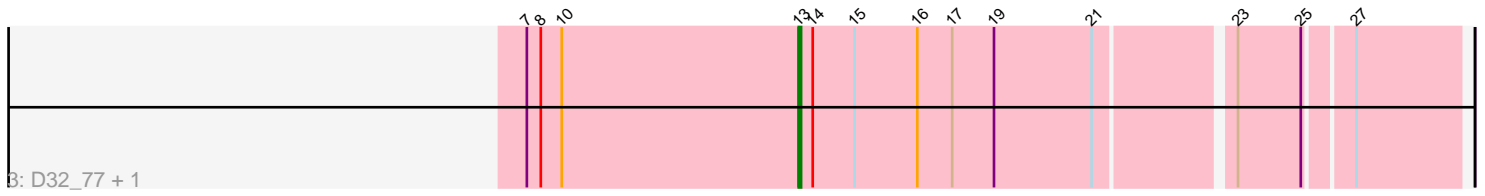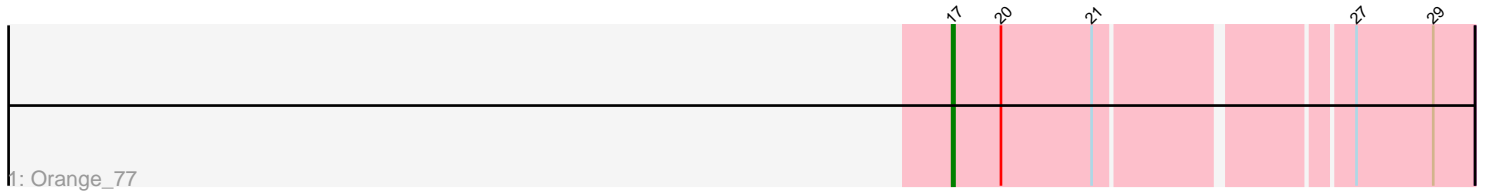# Pham 170559

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 170559 Report

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

Pham number 170559 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Orange_77
• Track 2 : PainterBoy_79
• Track 3 : D32_77, Naji_78
• Track 4 : Kalb97_79
• Track 5 : Maxo_71
• Track 6 : Priamo_79
• Track 7 : Shifa_214
• Track 8 : RER2_51

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

The start number called the most often in the published annotations is 13, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• D32_77, Naji_78, Shifa_214,

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

Genes that do not have the "Most Annotated" start:
• Kalb97_79, Maxo_71, Orange_77, PainterBoy_79, Priamo_79, RER2_51,

Summary by start number:

Start 13:
• Found in 3 of 9 (33.3%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: D32_77 (A2), Naji_78 (A2), Shifa_214 (C1),

Start 15:
• Found in 6 of 9 (66.7%) of genes in pham

- Manual Annotations of this start: 2 of 8
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Kalb97_79 (A3), Priamo_79 (A6),

Start 17:
- Found in 4 of 9 (44.4%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Orange_77 (A11),

Start 18:
- Found in 1 of 9 (11.1%) 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: Maxo_71 (A4),

Start 20:
- Found in 5 of 9 (55.6%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 40.0% of time when present
- Phage (with cluster) where this start called: PainterBoy_79 (A16), RER2_51 (CA),

Summary by clusters:

There are 8 clusters represented in this pham: A16, A11, CA, A3, A2, A4, A6, C1,

Info for manual annotations of cluster A11:
•Start number 17 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster A16:
•Start number 20 was manually annotated 1 time for cluster A16.

Info for manual annotations of cluster A2:
•Start number 13 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A3:
•Start number 15 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:
•Start number 18 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A6:
•Start number 15 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster C1:
•Start number 13 was manually annotated 1 time for cluster C1.

Gene Information:
Gene: D32_77 Start: 45602, Stop: 45333, Start Num: 13

Candidate Starts for D32_77:
(7, 45719), (8, 45713), (10, 45704), (Start: 13 @45602 has 3 MA's), (14, 45596), (Start: 15 @45578 has 2 MA's), (16, 45551), (Start: 17 @45536 has 1 MA's), (19, 45518), (21, 45476), (23, 45422), (25, 45395), (27, 45377),

Gene: Kalb97_79 Start: 44548, Stop: 44306, Start Num: 15
Candidate Starts for Kalb97_79:
(6, 44716), (11, 44656), (12, 44584), (Start: 15 @44548 has 2 MA's), (19, 44488), (Start: 20 @44485 has 1 MA's), (21, 44446), (23, 44383), (27, 44338),

Gene: Maxo_71 Start: 43834, Stop: 43661, Start Num: 18
Candidate Starts for Maxo_71:
(Start: 18 @43834 has 1 MA's), (22, 43741), (27, 43693),

Gene: Naji_78 Start: 45602, Stop: 45333, Start Num: 13
Candidate Starts for Naji_78:
(7, 45719), (8, 45713), (10, 45704), (Start: 13 @45602 has 3 MA's), (14, 45596), (Start: 15 @45578 has 2 MA's), (16, 45551), (Start: 17 @45536 has 1 MA's), (19, 45518), (21, 45476), (23, 45422), (25, 45395), (27, 45377),

Gene: Orange_77 Start: 44557, Stop: 44348, Start Num: 17
Candidate Starts for Orange_77:
(Start: 17 @44557 has 1 MA's), (Start: 20 @44536 has 1 MA's), (21, 44497), (27, 44398), (29, 44365),

Gene: PainterBoy_79 Start: 45471, Stop: 45277, Start Num: 20
Candidate Starts for PainterBoy_79:
(Start: 15 @45534 has 2 MA's), (Start: 20 @45471 has 1 MA's), (21, 45432), (26, 45342), (27, 45324),

Gene: Priamo_79 Start: 44200, Stop: 43952, Start Num: 15
Candidate Starts for Priamo_79:
(Start: 15 @44200 has 2 MA's), (Start: 20 @44137 has 1 MA's), (21, 44098), (24, 44035),

Gene: RER2_51 Start: 36653, Stop: 36474, Start Num: 20
Candidate Starts for RER2_51:
(Start: 20 @36653 has 1 MA's), (23, 36557), (24, 36548), (28, 36491),

Gene: Shifa_214 Start: 131617, Stop: 131877, Start Num: 13
Candidate Starts for Shifa_214:
(1, 131308), (2, 131365), (3, 131407), (4, 131458), (5, 131467), (9, 131515), (Start: 13 @131617 has 3 MA's), (Start: 15 @131638 has 2 MA's), (Start: 17 @131680 has 1 MA's), (28, 131866),