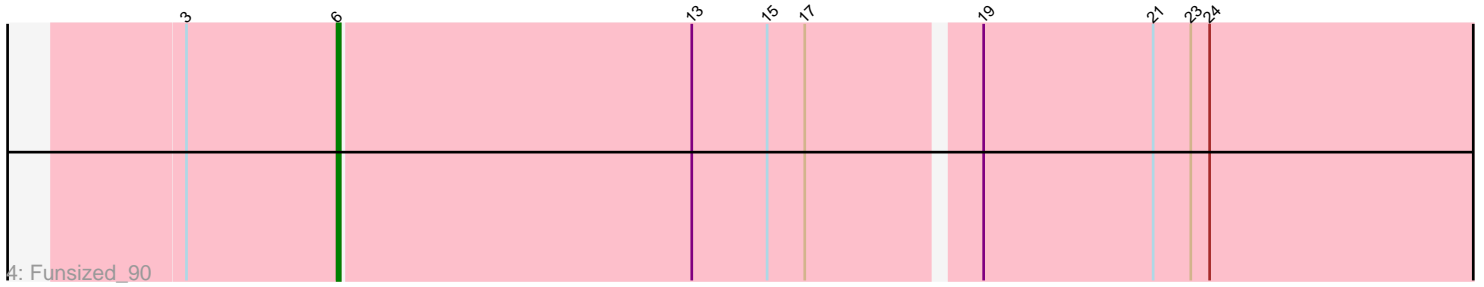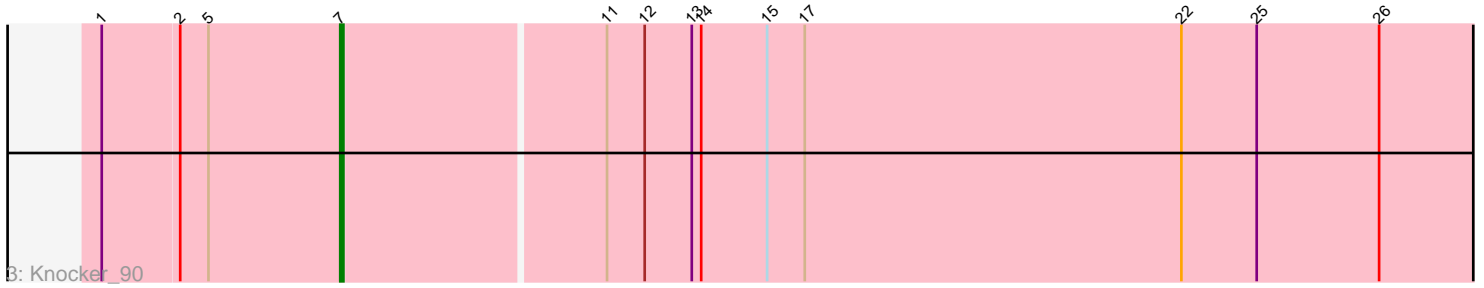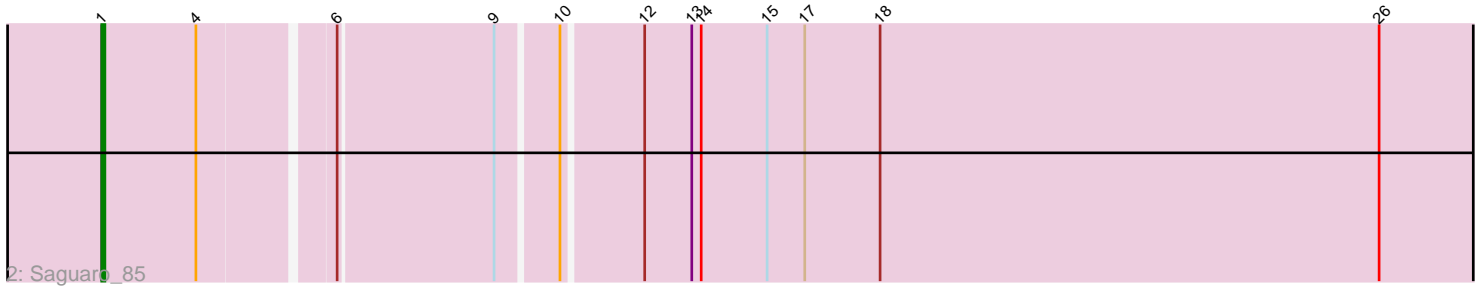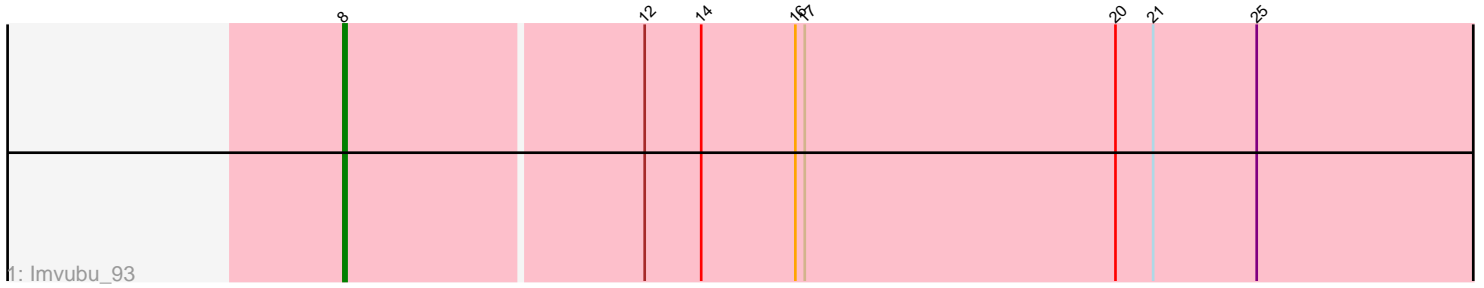# Pham 225293

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 225293 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225293 has 5 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Imvubu_93
• Track 2 : Saguaro_85
• Track 3 : Knocker_90
• Track 4 : Funsized_90
• Track 5 : Rinkes_88

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

The start number called the most often in the published annotations is 6, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Funsized_90, Rinkes_88,

Genes that have the "Most Annotated" start but do not call it:
• Saguaro_85,

Genes that do not have the "Most Annotated" start:
• Imvubu_93, Knocker_90,

Summary by start number:

Start 1:
• Found in 2 of 5 (40.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Saguaro_85 (B7),

Start 6:
• Found in 3 of 5 (60.0%) of genes in pham
• Manual Annotations of this start: 2 of 5
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Funsized_90 (B9), Rinkes_88 (B9),

Start 7:
• Found in 1 of 5 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Knocker_90 (B9),

Start 8:
• Found in 1 of 5 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Imvubu_93 (B10),

Summary by clusters:

There are 3 clusters represented in this pham: B7, B9, B10,

Info for manual annotations of cluster B10:
•Start number 8 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B7:
•Start number 1 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:
•Start number 6 was manually annotated 2 times for cluster B9.
•Start number 7 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Funsized_90 Start: 69980, Stop: 69603, Start Num: 6
Candidate Starts for Funsized_90:
(3, 70028), (Start: 6 @69980 has 2 MA's), (13, 69869), (15, 69845), (17, 69833), (19, 69782), (21, 69728), (23, 69716), (24, 69710),

Gene: Imvubu_93 Start: 66861, Stop: 66478, Start Num: 8
Candidate Starts for Imvubu_93:
(Start: 8 @66861 has 1 MA's), (12, 66768), (14, 66750), (16, 66720), (17, 66717), (20, 66618), (21, 66606), (25, 66573),

Gene: Knocker_90 Start: 68842, Stop: 68459, Start Num: 7
Candidate Starts for Knocker_90:
(Start: 1 @68917 has 1 MA's), (2, 68893), (5, 68884), (Start: 7 @68842 has 1 MA's), (11, 68761), (12, 68749), (13, 68734), (14, 68731), (15, 68710), (17, 68698), (22, 68578), (25, 68554), (26, 68515),

Gene: Rinkes_88 Start: 68809, Stop: 68432, Start Num: 6
Candidate Starts for Rinkes_88:
(Start: 6 @68809 has 2 MA's), (13, 68698), (15, 68674), (17, 68662), (19, 68611), (21, 68557), (24, 68539),

Gene: Saguaro_85 Start: 66656, Stop: 66207, Start Num: 1
Candidate Starts for Saguaro_85:

(Start: 1 @66656 has 1 MA's), (4, 66626), (Start: 6 @66587 has 2 MA's), (9, 66539), (10, 66521), (12, 66497), (13, 66482), (14, 66479), (15, 66458), (17, 66446), (18, 66422), (26, 66263),