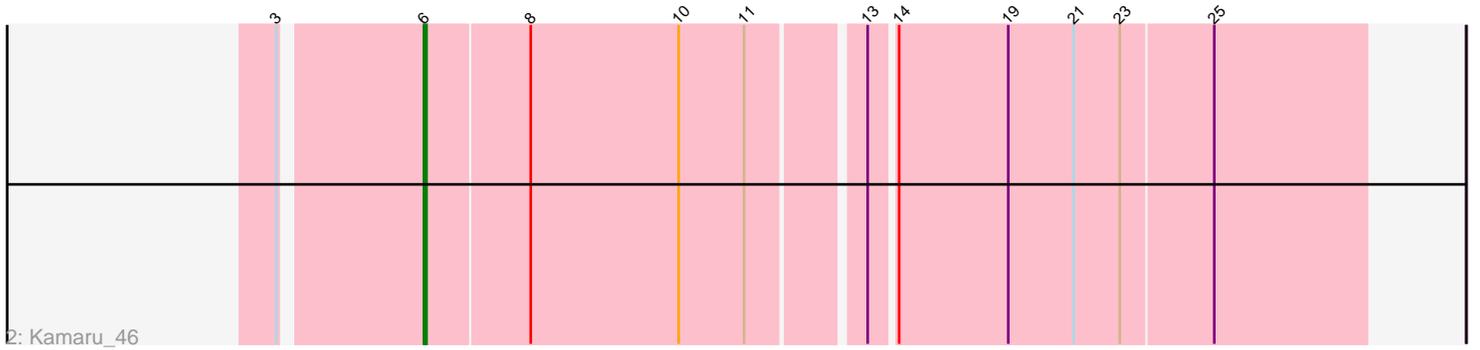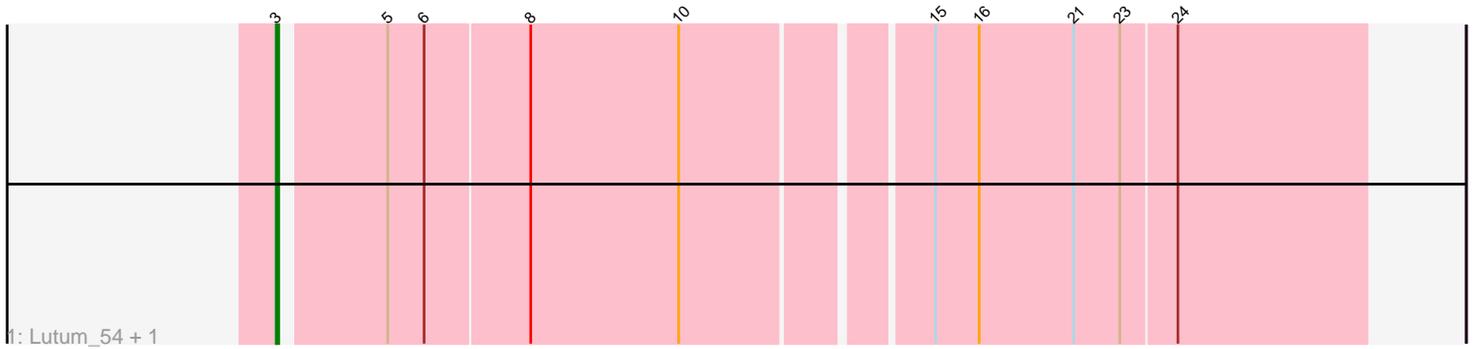# Pham 288531

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 288531 Report

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

Pham number 288531 has 5 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Lutum_54, Kenna_53
• Track 2 : Kamaru_46
• Track 3 : Colossa_33
• Track 4 : VanLee_33

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

The start number called the most often in the published annotations is 3, it was called in 2 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Kenna_53, Lutum_54,

Genes that have the "Most Annotated" start but do not call it:
• Kamaru_46,

Genes that do not have the "Most Annotated" start:
• Colossa_33, VanLee_33,

Summary by start number:

Start 3:
• Found in 3 of 5 (60.0%) of genes in pham
• Manual Annotations of this start: 2 of 4
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Kenna_53 (DN1), Lutum_54 (DN1),

Start 4:
• Found in 2 of 5 (40.0%) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_33 (KA), VanLee_33 (KA),

Start 6:

• Found in 3 of 5 (60.0%) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Kamaru_46 (DN1),

Summary by clusters:

There are 2 clusters represented in this pham: KA, DN1,

Info for manual annotations of cluster DN1:
•Start number 3 was manually annotated 2 times for cluster DN1.
•Start number 6 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster KA:
•Start number 4 was manually annotated 1 time for cluster KA.

Gene Information:
Gene: Colossa_33 Start: 28340, Stop: 27897, Start Num: 4
Candidate Starts for Colossa_33:
(1, 28463), (2, 28391), (Start: 4 @28340 has 1 MA's), (9, 28232), (17, 28088), (18, 28085), (20, 28070), (21, 28058), (22, 28049), (27, 27971), (28, 27968), (29, 27905),

Gene: Kamaru_46 Start: 33198, Stop: 32830, Start Num: 6
Candidate Starts for Kamaru_46:
(Start: 3 @33252 has 2 MA's), (Start: 6 @33198 has 1 MA's), (8, 33156), (10, 33096), (11, 33069), (13, 33027), (14, 33018), (19, 32973), (21, 32946), (23, 32928), (25, 32892),

Gene: Kenna_53 Start: 35132, Stop: 34710, Start Num: 3
Candidate Starts for Kenna_53:
(Start: 3 @35132 has 2 MA's), (5, 35093), (Start: 6 @35078 has 1 MA's), (8, 35036), (10, 34976), (15, 34883), (16, 34865), (21, 34826), (23, 34808), (24, 34787),

Gene: Lutum_54 Start: 35132, Stop: 34710, Start Num: 3
Candidate Starts for Lutum_54:
(Start: 3 @35132 has 2 MA's), (5, 35093), (Start: 6 @35078 has 1 MA's), (8, 35036), (10, 34976), (15, 34883), (16, 34865), (21, 34826), (23, 34808), (24, 34787),

Gene: VanLee_33 Start: 28369, Stop: 27926, Start Num: 4
Candidate Starts for VanLee_33:
(2, 28414), (Start: 4 @28369 has 1 MA's), (7, 28315), (9, 28261), (12, 28180), (18, 28114), (20, 28099), (21, 28087), (22, 28078), (26, 28009), (27, 28000), (28, 27997), (29, 27934),