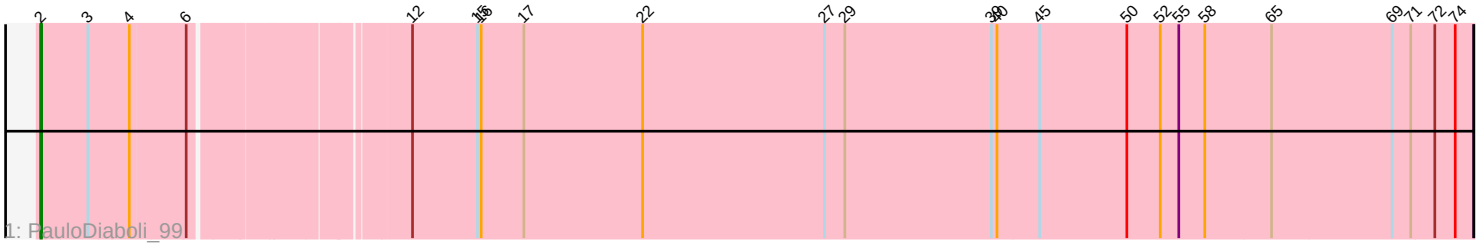
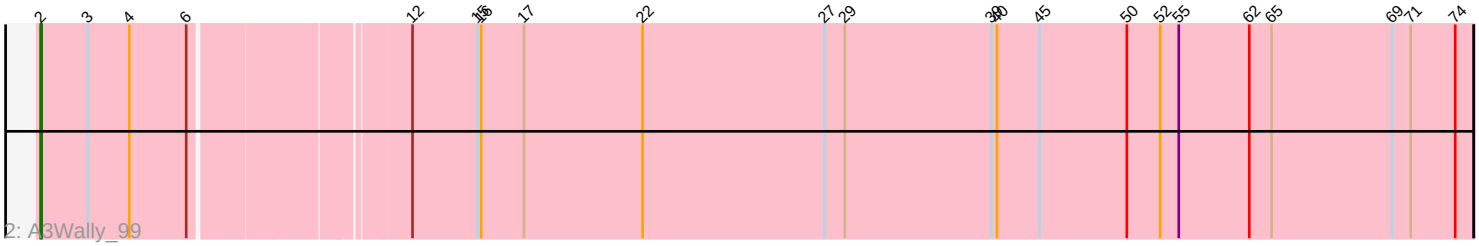
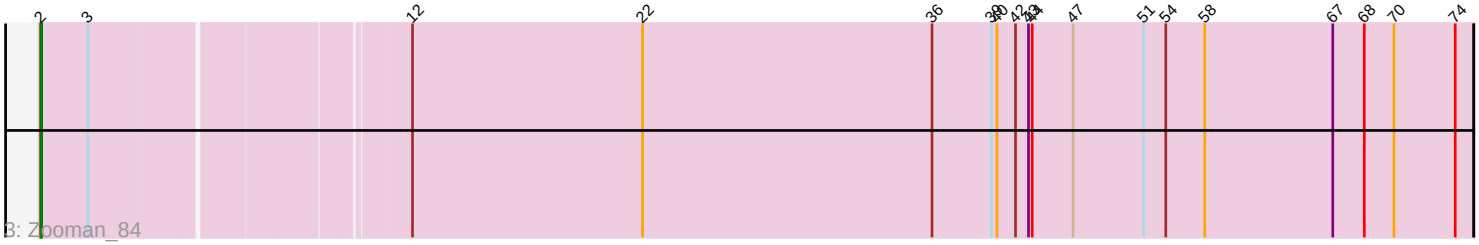
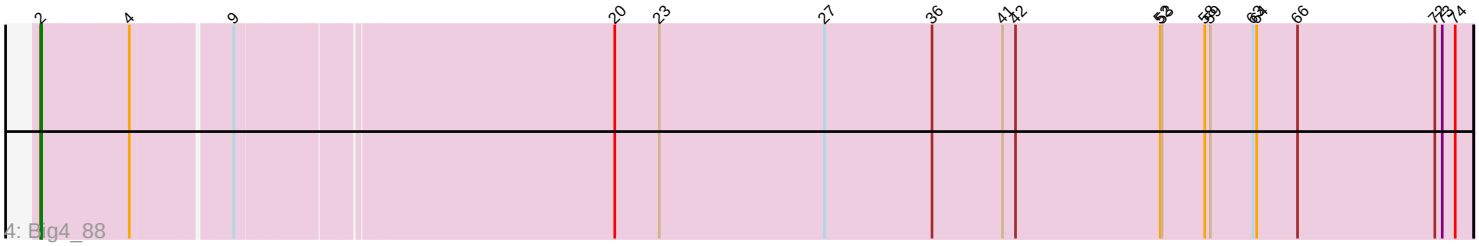
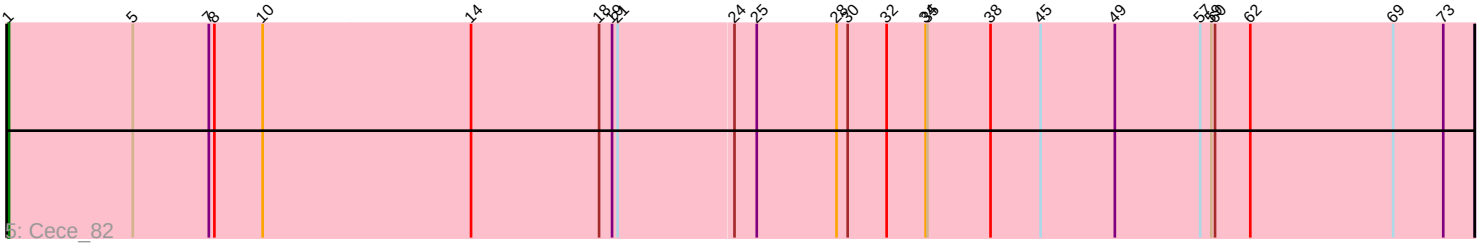
Pham 7476

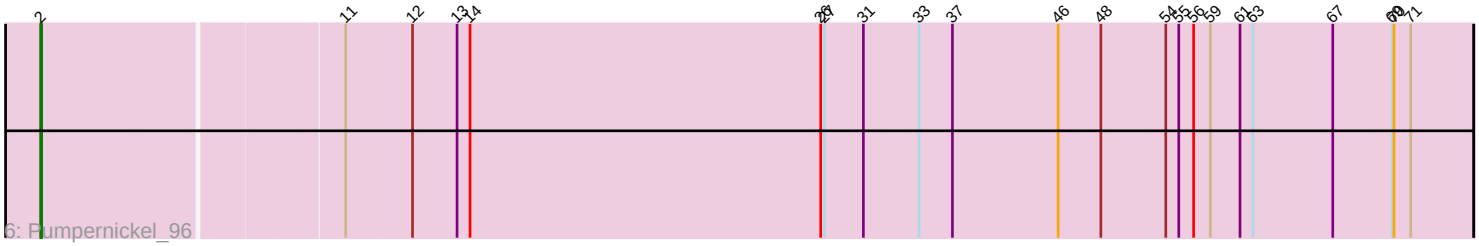

1: PauloDiabboli_99


2: A3Wally_99


3: Zbooman_84


4: Big4_88


5: Cece_82


6: Pumpernickel_96

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 7476 Report

This analysis was run 03/30/24 on database version 556.

Pham number 7476 has 6 members, 0 are drafts.

Phages represented in each track:
• Track 1 : PauloDiaboli_99
• Track 2 : A3Wally_99
• Track 3 : Zooman_84
• Track 4 : Big4_88
• Track 5 : Cece_82
• Track 6 : Pumpernickel_96

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

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

Genes that call this "Most Annotated" start:
• A3Wally_99, Big4_88, PauloDiaboli_99, Pumpernickel_96, Zooman_84,

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

Genes that do not have the "Most Annotated" start:
• Cece_82,

Summary by start number:

Start 1:
• Found in 1 of 6 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_82 (GD3),

Start 2:
• Found in 5 of 6 (83.3%) of genes in pham
• Manual Annotations of this start: 5 of 6
• Called 100.0% of time when present

• Phage (with cluster) where this start called: A3Wally_99 (GD1), Big4_88 (GD2), PauloDiaboli_99 (GD1), Pumpernickel_96 (GD4), Zooman_84 (GD2),

Summary by clusters:

There are 4 clusters represented in this pham: GD1, GD2, GD3, GD4,

Info for manual annotations of cluster GD1:
•Start number 2 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 2 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 1 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 2 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_99 Start: 60337, Stop: 62571, Start Num: 2
Candidate Starts for A3Wally_99:
(Start: 2 @60337 has 5 MA's), (3, 60409), (4, 60472), (6, 60556), (12, 60868), (15, 60973), (16, 60979), (17, 61048), (22, 61240), (27, 61534), (29, 61567), (39, 61804), (40, 61813), (45, 61879), (50, 62020), (52, 62074), (55, 62104), (62, 62215), (65, 62251), (69, 62443), (71, 62473), (74, 62542),

Gene: Big4_88 Start: 59554, Stop: 61794, Start Num: 2
Candidate Starts for Big4_88:
(Start: 2 @59554 has 5 MA's), (4, 59689), (9, 59836), (20, 60412), (23, 60484), (27, 60751), (36, 60925), (41, 61039), (42, 61057), (52, 61291), (53, 61294), (58, 61363), (59, 61372), (63, 61441), (64, 61447), (66, 61513), (72, 61732), (73, 61744), (74, 61765),

Gene: Cece_82 Start: 53529, Stop: 55874, Start Num: 1
Candidate Starts for Cece_82:
(Start: 1 @53529 has 1 MA's), (5, 53730), (7, 53853), (8, 53862), (10, 53940), (14, 54276), (18, 54483), (19, 54504), (21, 54513), (24, 54696), (25, 54732), (28, 54861), (30, 54879), (32, 54942), (34, 54999), (35, 55002), (38, 55104), (45, 55182), (49, 55302), (57, 55437), (59, 55455), (60, 55461), (62, 55518), (69, 55746), (73, 55824),

Gene: PauloDiaboli_99 Start: 59694, Stop: 61928, Start Num: 2
Candidate Starts for PauloDiaboli_99:
(Start: 2 @59694 has 5 MA's), (3, 59766), (4, 59829), (6, 59913), (12, 60225), (15, 60330), (16, 60336), (17, 60405), (22, 60597), (27, 60891), (29, 60924), (39, 61161), (40, 61170), (45, 61236), (50, 61377), (52, 61431), (55, 61461), (58, 61503), (65, 61608), (69, 61800), (71, 61830), (72, 61866), (74, 61899),

Gene: Pumpernickel_96 Start: 60713, Stop: 62962, Start Num: 2
Candidate Starts for Pumpernickel_96:
(Start: 2 @60713 has 5 MA's), (11, 61157), (12, 61259), (13, 61331), (14, 61352), (26, 61919), (27, 61925), (31, 61988), (33, 62072), (37, 62126), (46, 62297), (48, 62366), (54, 62468), (55, 62486), (56,

62510), (59, 62537), (61, 62585), (63, 62606), (67, 62735), (69, 62831), (70, 62834), (71, 62861),

Gene: Zooman_84 Start: 58010, Stop: 60250, Start Num: 2
Candidate Starts for Zooman_84:
(Start: 2 @58010 has 5 MA's), (3, 58082), (12, 58541), (22, 58913), (36, 59381), (39, 59477), (40, 59486), (42, 59513), (43, 59534), (44, 59540), (47, 59606), (51, 59720), (54, 59756), (58, 59819), (67, 60026), (68, 60077), (70, 60125), (74, 60221),