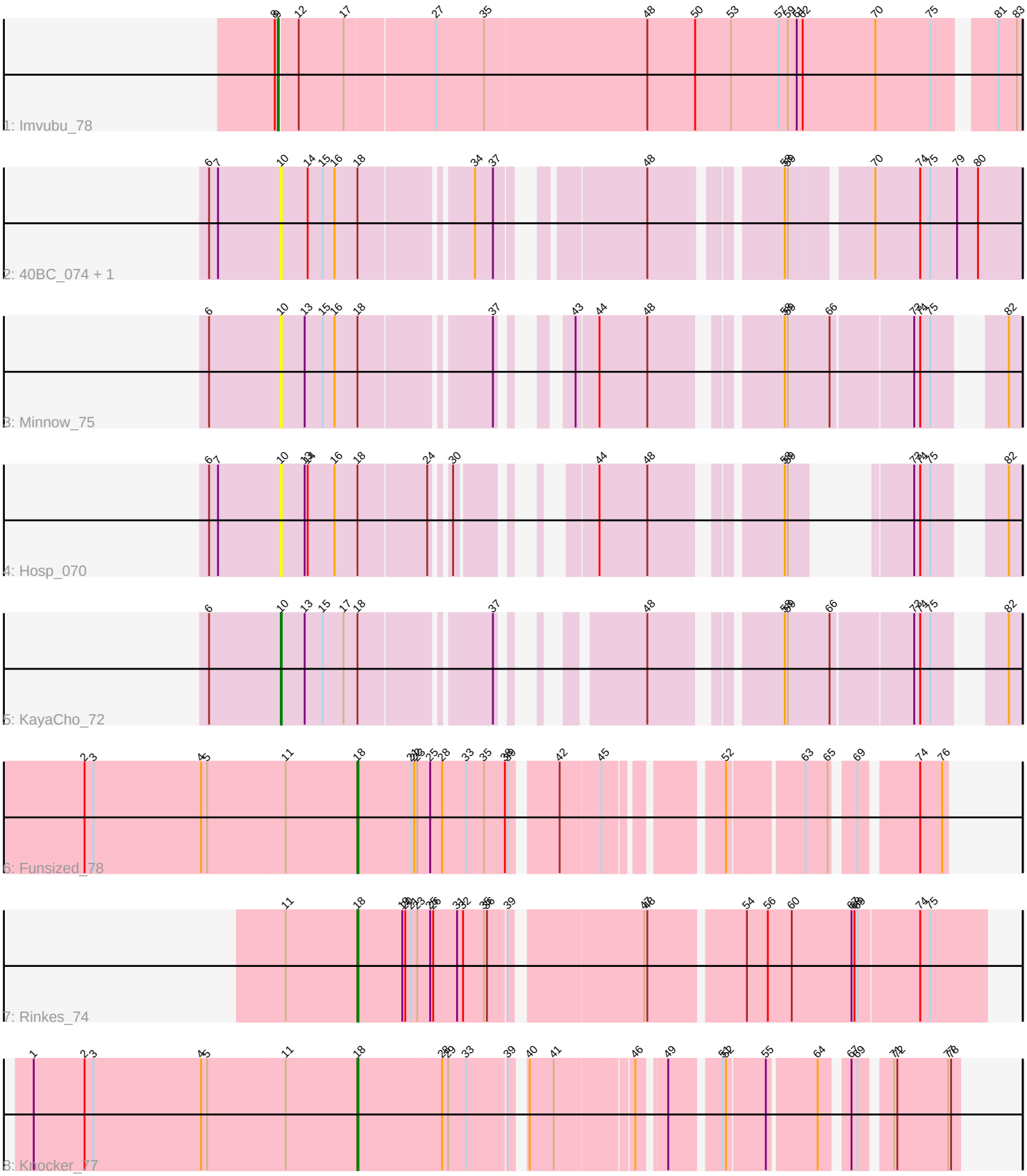
Pham 322104


1: Imvubu_78
2: 40BC_074 + 1
3: Minnow_75
4: Hosp_070
5: KayaCho_72
6: Funsized_78
7: Rinkes_74
8: Knocker_77

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 322104 Report

This analysis was run 09/05/26 on database version 662.

Pham number 322104 has 9 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Imvubu_78
• Track 2 : 40BC_074, 39HC_074
• Track 3 : Minnow_75
• Track 4 : Hosp_070
• Track 5 : KayaCho_72
• Track 6 : Funsized_78
• Track 7 : Rinkes_74
• Track 8 : Knocker_77

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

The start number called the most often in the published annotations is 18, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Funsized_78, Knocker_77, Rinkes_74,

Genes that have the "Most Annotated" start but do not call it:
• 39HC_074, 40BC_074, Hosp_070, KayaCho_72, Minnow_75,

Genes that do not have the "Most Annotated" start:
• Imvubu_78,

Summary by start number:

Start 9:
• Found in 1 of 9 (11.1%) 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_78 (B10),

Start 10:
• Found in 5 of 9 (55.6%) 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: 39HC_074 (B6), 40BC_074 (B6), Hosp_070 (B6), KayaCho_72 (B6), Minnow_75 (B6),

Start 18:
• Found in 8 of 9 (88.9%) of genes in pham
• Manual Annotations of this start: 3 of 5
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Funsized_78 (B9), Knocker_77 (B9), Rinkes_74 (B9),

Summary by clusters:

There are 3 clusters represented in this pham: B6, B9, B10,

Info for manual annotations of cluster B10:
•Start number 9 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B6:
•Start number 10 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B9:
•Start number 18 was manually annotated 3 times for cluster B9.

Gene Information:

Gene: 39HC_074 Start: 61862, Stop: 61221, Start Num: 10
Candidate Starts for 39HC_074:
(6, 61934), (7, 61925), (Start: 10 @61862 has 1 MA's), (14, 61835), (15, 61820), (16, 61808), (Start: 18 @61787 has 3 MA's), (34, 61688), (37, 61670), (48, 61553), (58, 61442), (59, 61439), (70, 61364), (74, 61319), (75, 61310), (79, 61283), (80, 61262),

Gene: 40BC_074 Start: 61862, Stop: 61221, Start Num: 10
Candidate Starts for 40BC_074:
(6, 61934), (7, 61925), (Start: 10 @61862 has 1 MA's), (14, 61835), (15, 61820), (16, 61808), (Start: 18 @61787 has 3 MA's), (34, 61688), (37, 61670), (48, 61553), (58, 61442), (59, 61439), (70, 61364), (74, 61319), (75, 61310), (79, 61283), (80, 61262),

Gene: Funsized_78 Start: 65246, Stop: 64737, Start Num: 18
Candidate Starts for Funsized_78:
(2, 65519), (3, 65510), (4, 65402), (5, 65396), (11, 65318), (Start: 18 @65246 has 3 MA's), (21, 65192), (22, 65189), (23, 65186), (25, 65174), (28, 65162), (33, 65138), (35, 65120), (38, 65099), (39, 65096), (42, 65057), (45, 65018), (52, 64922), (63, 64853), (65, 64832), (69, 64814), (74, 64763), (76, 64742),

Gene: Hosp_070 Start: 59332, Stop: 58814, Start Num: 10
Candidate Starts for Hosp_070:
(6, 59404), (7, 59395), (Start: 10 @59332 has 1 MA's), (13, 59308), (14, 59305), (16, 59278), (Start: 18 @59257 has 3 MA's), (24, 59191), (30, 59179), (44, 59101), (48, 59053), (58, 58948), (59, 58945), (73, 58885), (74, 58879), (75, 58870), (82, 58825),

Gene: Imvubu_78 Start: 62299, Stop: 61583, Start Num: 9

Candidate Starts for Imvubu_78:
(8, 62302), (Start: 9 @62299 has 1 MA's), (12, 62281), (17, 62236), (27, 62149), (35, 62101), (48, 61939), (50, 61891), (53, 61855), (57, 61807), (59, 61798), (61, 61789), (62, 61783), (70, 61711), (75, 61657), (81, 61606), (83, 61588),

Gene: KayaCho_72 Start: 61533, Stop: 60955, Start Num: 10
Candidate Starts for KayaCho_72:
(6, 61605), (Start: 10 @61533 has 1 MA's), (13, 61509), (15, 61491), (17, 61470), (Start: 18 @61458 has 3 MA's), (37, 61341), (48, 61254), (58, 61149), (59, 61146), (66, 61104), (73, 61026), (74, 61020), (75, 61011), (82, 60966),

Gene: Knocker_77 Start: 63723, Stop: 63205, Start Num: 18
Candidate Starts for Knocker_77:
(1, 64047), (2, 63996), (3, 63987), (4, 63879), (5, 63873), (11, 63795), (Start: 18 @63723 has 3 MA's), (28, 63639), (29, 63633), (33, 63615), (39, 63576), (40, 63567), (41, 63543), (46, 63471), (49, 63450), (51, 63405), (52, 63402), (55, 63366), (64, 63321), (67, 63300), (69, 63294), (71, 63270), (72, 63267), (77, 63216), (78, 63213),

Gene: Minnow_75 Start: 61742, Stop: 61149, Start Num: 10
Candidate Starts for Minnow_75:
(6, 61814), (Start: 10 @61742 has 1 MA's), (13, 61718), (15, 61700), (16, 61688), (Start: 18 @61667 has 3 MA's), (37, 61550), (43, 61517), (44, 61496), (48, 61448), (58, 61343), (59, 61340), (66, 61298), (73, 61220), (74, 61214), (75, 61205), (82, 61160),

Gene: Rinkes_74 Start: 62948, Stop: 62352, Start Num: 18
Candidate Starts for Rinkes_74:
(11, 63020), (Start: 18 @62948 has 3 MA's), (19, 62903), (20, 62900), (21, 62894), (23, 62888), (25, 62876), (26, 62873), (31, 62849), (32, 62843), (35, 62822), (36, 62819), (39, 62801), (47, 62681), (48, 62678), (54, 62588), (56, 62567), (60, 62543), (67, 62483), (68, 62480), (69, 62477), (74, 62417), (75, 62408),