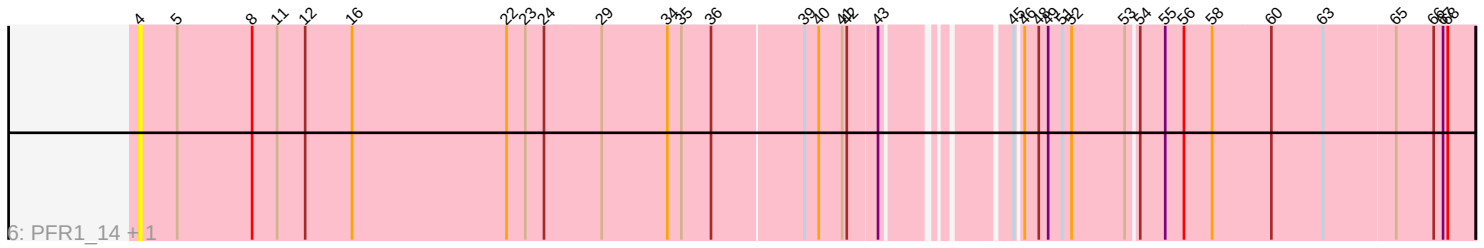
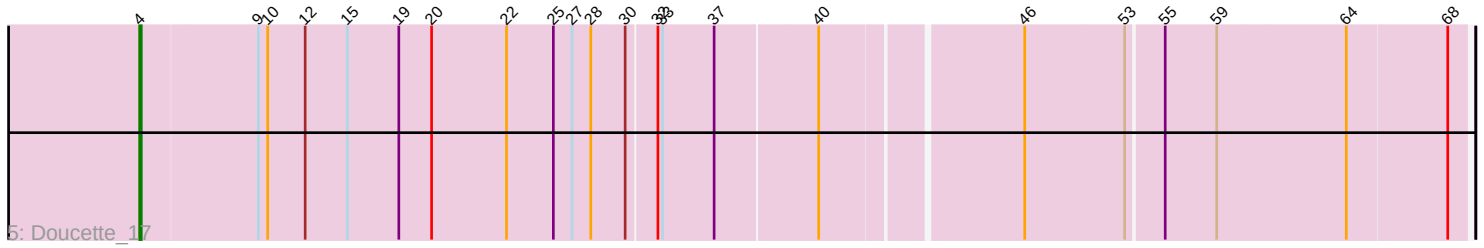
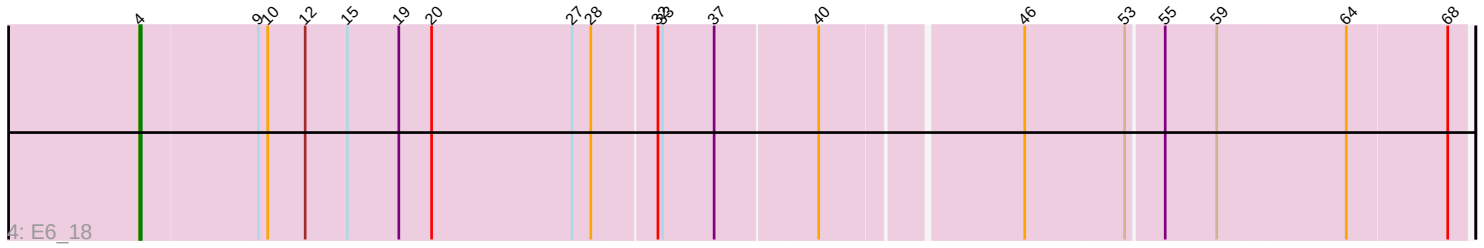
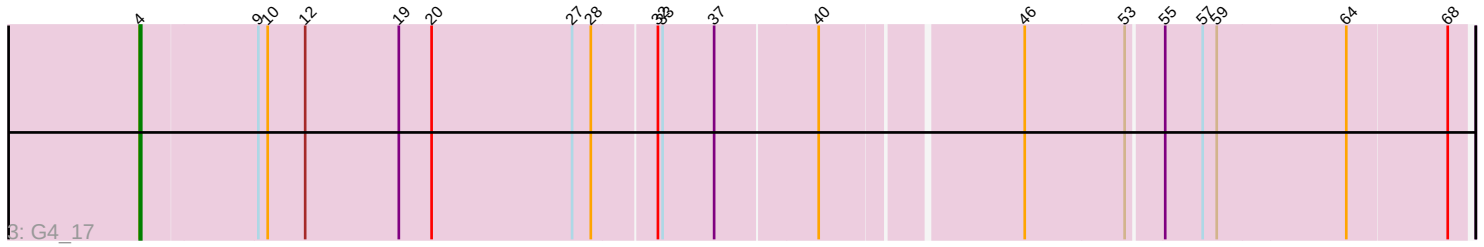
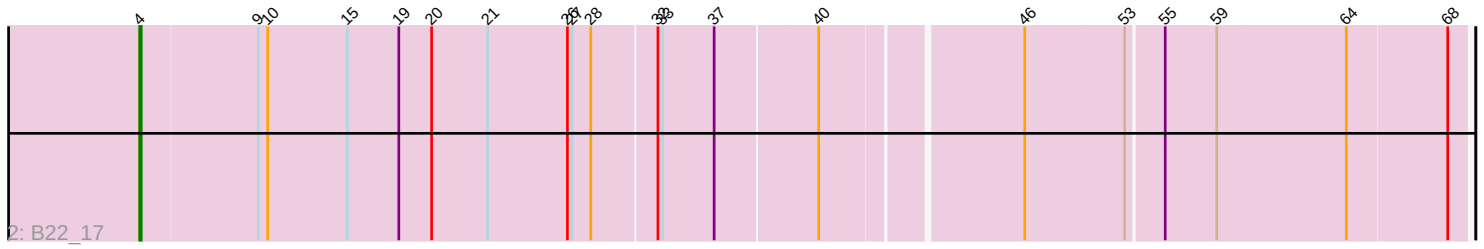
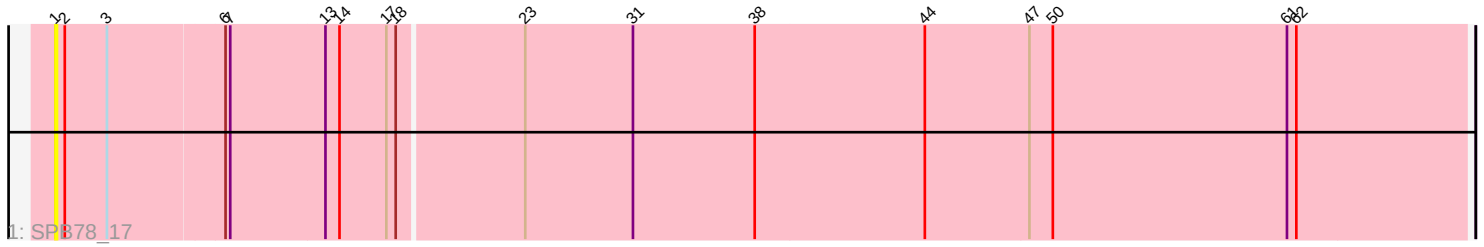


Pham 309981



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 309981 Report

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

Pham number 309981 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : SPB78_17
- Track 2 : B22_17
- Track 3 : G4_17
- Track 4 : E6_18
- Track 5 : Doucette_17
- Track 6 : PFR1_14, PFR2_16

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

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

Genes that call this "Most Annotated" start:

- B22_17, Doucette_17, E6_18, G4_17, PFR1_14, PFR2_16,

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

-

Genes that do not have the "Most Annotated" start:

- SPB78_17,

Summary by start number:

Start 1:

- Found in 1 of 7 (14.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SPB78_17 (BA),

Start 4:

- Found in 6 of 7 (85.7%) of genes in pham
- Manual Annotations of this start: 4 of 4
- Called 100.0% of time when present

- Phage (with cluster) where this start called: B22_17 (BW), Doucette_17 (BW), E6_18 (BW), G4_17 (BW), PFR1_14 (BX), PFR2_16 (BX),

Summary by clusters:

There are 3 clusters represented in this pham: BW, BX, BA,

Info for manual annotations of cluster BW:

- Start number 4 was manually annotated 4 times for cluster BW.

Gene Information:

Gene: B22_17 Start: 13755, Stop: 14570, Start Num: 4

Candidate Starts for B22_17:

(Start: 4 @13755 has 4 MA's), (9, 13827), (10, 13833), (15, 13884), (19, 13917), (20, 13938), (21, 13974), (26, 14025), (27, 14028), (28, 14040), (32, 14079), (33, 14082), (37, 14115), (40, 14178), (46, 14298), (53, 14361), (55, 14382), (59, 14415), (64, 14496), (68, 14559),

Gene: Doucette_17 Start: 13928, Stop: 14743, Start Num: 4

Candidate Starts for Doucette_17:

(Start: 4 @13928 has 4 MA's), (9, 14000), (10, 14006), (12, 14030), (15, 14057), (19, 14090), (20, 14111), (22, 14159), (25, 14189), (27, 14201), (28, 14213), (30, 14234), (32, 14252), (33, 14255), (37, 14288), (40, 14351), (46, 14471), (53, 14534), (55, 14555), (59, 14588), (64, 14669), (68, 14732),

Gene: E6_18 Start: 13976, Stop: 14791, Start Num: 4

Candidate Starts for E6_18:

(Start: 4 @13976 has 4 MA's), (9, 14048), (10, 14054), (12, 14078), (15, 14105), (19, 14138), (20, 14159), (27, 14249), (28, 14261), (32, 14300), (33, 14303), (37, 14336), (40, 14399), (46, 14519), (53, 14582), (55, 14603), (59, 14636), (64, 14717), (68, 14780),

Gene: G4_17 Start: 13918, Stop: 14733, Start Num: 4

Candidate Starts for G4_17:

(Start: 4 @13918 has 4 MA's), (9, 13990), (10, 13996), (12, 14020), (19, 14080), (20, 14101), (27, 14191), (28, 14203), (32, 14242), (33, 14245), (37, 14278), (40, 14341), (46, 14461), (53, 14524), (55, 14545), (57, 14569), (59, 14578), (64, 14659), (68, 14722),

Gene: PFR1_14 Start: 12972, Stop: 13781, Start Num: 4

Candidate Starts for PFR1_14:

(Start: 4 @12972 has 4 MA's), (5, 12996), (8, 13044), (11, 13059), (12, 13077), (16, 13107), (22, 13206), (23, 13218), (24, 13230), (29, 13266), (34, 13308), (35, 13317), (36, 13335), (39, 13392), (40, 13401), (41, 13416), (42, 13419), (43, 13437), (45, 13500), (46, 13503), (48, 13512), (49, 13518), (51, 13527), (52, 13533), (53, 13566), (54, 13572), (55, 13587), (56, 13599), (58, 13617), (60, 13653), (63, 13686), (65, 13731), (66, 13755), (67, 13761), (68, 13764),

Gene: PFR2_16 Start: 14541, Stop: 15350, Start Num: 4

Candidate Starts for PFR2_16:

(Start: 4 @14541 has 4 MA's), (5, 14565), (8, 14613), (11, 14628), (12, 14646), (16, 14676), (22, 14775), (23, 14787), (24, 14799), (29, 14835), (34, 14877), (35, 14886), (36, 14904), (39, 14961), (40, 14970), (41, 14985), (42, 14988), (43, 15006), (45, 15069), (46, 15072), (48, 15081), (49, 15087), (51,

15096), (52, 15102), (53, 15135), (54, 15141), (55, 15156), (56, 15168), (58, 15186), (60, 15222), (63, 15255), (65, 15300), (66, 15324), (67, 15330), (68, 15333),

Gene: SPB78_17 Start: 13649, Stop: 14539, Start Num: 1

Candidate Starts for SPB78_17:

(1, 13649), (2, 13655), (3, 13682), (6, 13754), (7, 13757), (13, 13817), (14, 13826), (17, 13856), (18, 13862), (23, 13940), (31, 14009), (38, 14087), (44, 14195), (47, 14261), (50, 14276), (61, 14426), (62, 14432),