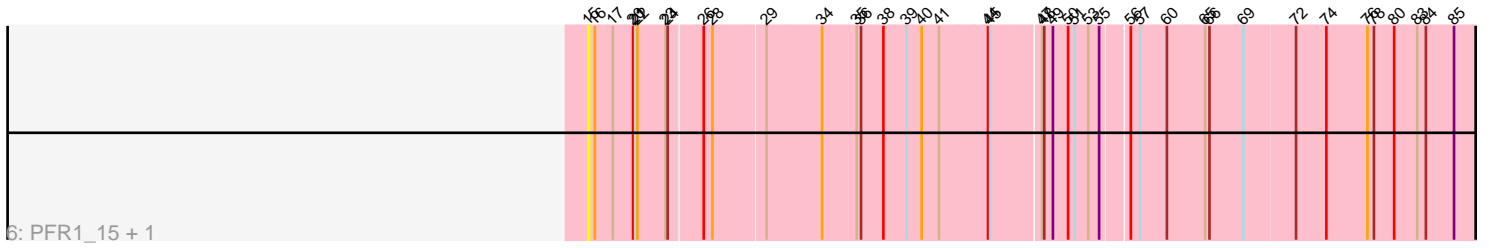
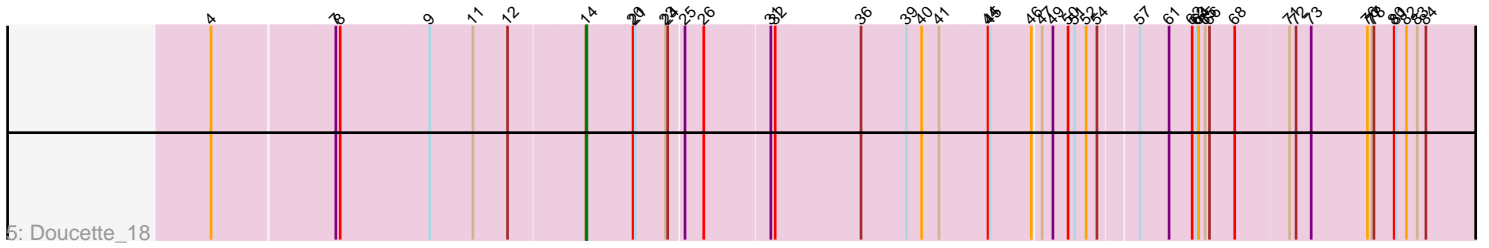
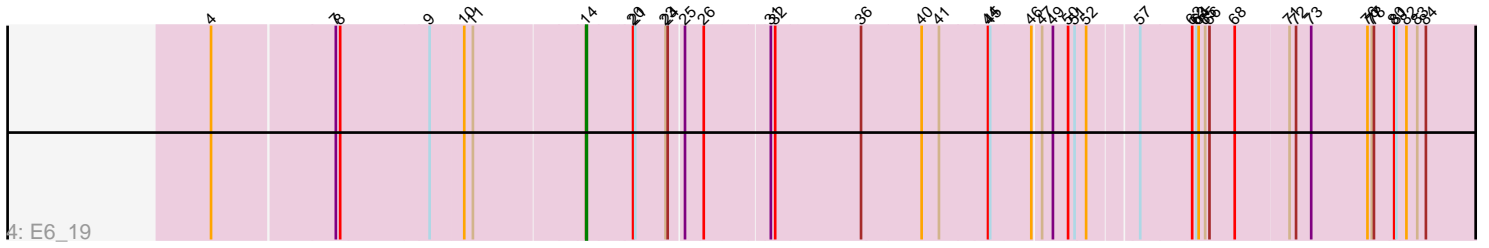
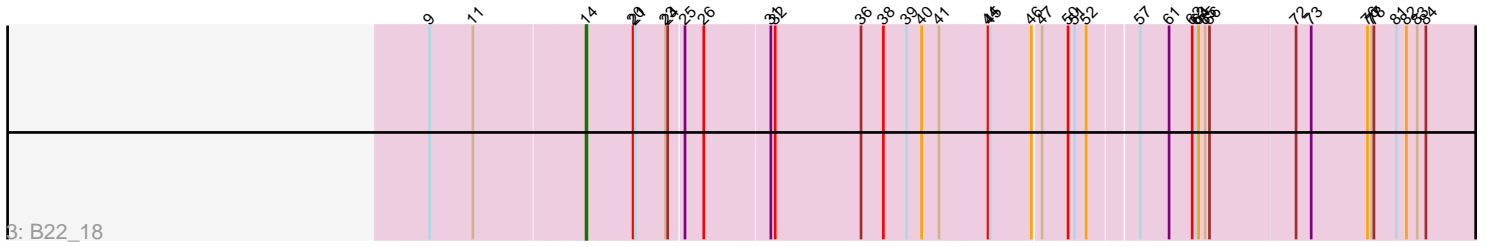
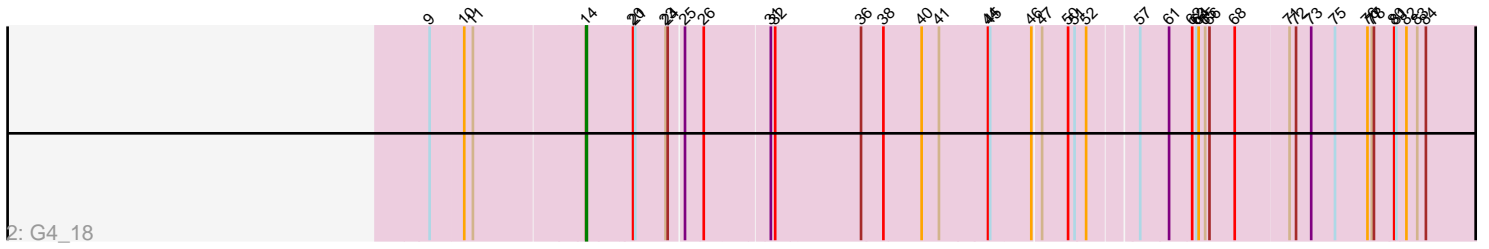
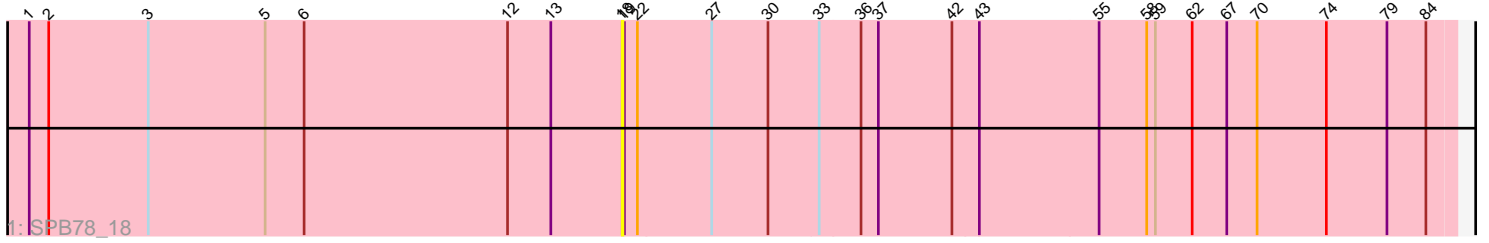


Pham 163126



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 163126 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163126 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : SPB78_18
- Track 2 : G4_18
- Track 3 : B22_18
- Track 4 : E6_19
- Track 5 : Doucette_18
- Track 6 : PFR1_15, PFR2_17

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

The start number called the most often in the published annotations is 14, it was called in 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- B22_18, Doucette_18, E6_19, G4_18,

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

-

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

- PFR1_15, PFR2_17, SPB78_18,

Summary by start number:

Start 14:

- Found in 4 of 7 (57.1%) 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_18 (BW), Doucette_18 (BW), E6_19 (BW), G4_18 (BW),

Start 15:

- Found in 2 of 7 (28.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: PFR1_15 (BX), PFR2_17 (BX),

Start 18:

- 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_18 (BA),

Summary by clusters:

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

Info for manual annotations of cluster BW:

- Start number 14 was manually annotated 4 times for cluster BW.

Gene Information:

Gene: B22_18 Start: 14570, Stop: 15742, Start Num: 14

Candidate Starts for B22_18:

(9, 14363), (11, 14420), (Start: 14 @14570 has 4 MA's), (20, 14627), (21, 14630), (23, 14672), (24, 14675), (25, 14693), (26, 14717), (31, 14798), (32, 14804), (36, 14918), (38, 14948), (39, 14978), (40, 14999), (41, 15023), (44, 15089), (45, 15092), (46, 15146), (47, 15155), (50, 15191), (51, 15200), (52, 15215), (57, 15278), (61, 15317), (62, 15347), (63, 15353), (64, 15356), (65, 15365), (66, 15371), (72, 15485), (73, 15506), (76, 15584), (77, 15590), (78, 15593), (81, 15623), (82, 15635), (83, 15650), (84, 15662),

Gene: Doucette_18 Start: 14743, Stop: 15915, Start Num: 14

Candidate Starts for Doucette_18:

(4, 14245), (7, 14410), (8, 14416), (9, 14536), (11, 14593), (12, 14641), (Start: 14 @14743 has 4 MA's), (20, 14800), (21, 14803), (23, 14845), (24, 14848), (25, 14866), (26, 14890), (31, 14971), (32, 14977), (36, 15091), (39, 15151), (40, 15172), (41, 15196), (44, 15262), (45, 15265), (46, 15319), (47, 15328), (49, 15343), (50, 15364), (51, 15373), (52, 15388), (54, 15403), (57, 15451), (61, 15490), (62, 15520), (63, 15526), (64, 15529), (65, 15538), (66, 15544), (68, 15577), (71, 15649), (72, 15658), (73, 15679), (76, 15757), (77, 15763), (78, 15766), (80, 15793), (81, 15796), (82, 15808), (83, 15823), (84, 15835),

Gene: E6_19 Start: 14791, Stop: 15963, Start Num: 14

Candidate Starts for E6_19:

(4, 14293), (7, 14458), (8, 14464), (9, 14584), (10, 14629), (11, 14641), (Start: 14 @14791 has 4 MA's), (20, 14848), (21, 14851), (23, 14893), (24, 14896), (25, 14914), (26, 14938), (31, 15019), (32, 15025), (36, 15139), (40, 15220), (41, 15244), (44, 15310), (45, 15313), (46, 15367), (47, 15376), (49, 15391), (50, 15412), (51, 15421), (52, 15436), (57, 15499), (62, 15568), (63, 15574), (64, 15577), (65, 15586), (66, 15592), (68, 15625), (71, 15697), (72, 15706), (73, 15727), (76, 15805), (77, 15811), (78, 15814), (80, 15841), (81, 15844), (82, 15856), (83, 15871), (84, 15883),

Gene: G4_18 Start: 14733, Stop: 15905, Start Num: 14

Candidate Starts for G4_18:

(9, 14526), (10, 14571), (11, 14583), (Start: 14 @14733 has 4 MA's), (20, 14790), (21, 14793), (23, 14835), (24, 14838), (25, 14856), (26, 14880), (31, 14961), (32, 14967), (36, 15081), (38, 15111), (40,

15162), (41, 15186), (44, 15252), (45, 15255), (46, 15309), (47, 15318), (50, 15354), (51, 15363), (52, 15378), (57, 15441), (61, 15480), (62, 15510), (63, 15516), (64, 15519), (65, 15528), (66, 15534), (68, 15567), (71, 15639), (72, 15648), (73, 15669), (75, 15702), (76, 15747), (77, 15753), (78, 15756), (80, 15783), (81, 15786), (82, 15798), (83, 15813), (84, 15825),

Gene: PFR1_15 Start: 13778, Stop: 14950, Start Num: 15

Candidate Starts for PFR1_15:

(15, 13778), (16, 13787), (17, 13811), (20, 13835), (21, 13838), (22, 13841), (23, 13880), (24, 13883), (26, 13925), (28, 13937), (29, 14000), (34, 14072), (35, 14120), (36, 14126), (38, 14156), (39, 14186), (40, 14207), (41, 14231), (44, 14297), (45, 14300), (47, 14360), (48, 14363), (49, 14375), (50, 14396), (51, 14405), (53, 14423), (55, 14438), (56, 14471), (57, 14483), (60, 14519), (65, 14570), (66, 14576), (69, 14621), (72, 14690), (74, 14732), (76, 14789), (78, 14798), (80, 14825), (83, 14855), (84, 14867), (85, 14906),

Gene: PFR2_17 Start: 15347, Stop: 16519, Start Num: 15

Candidate Starts for PFR2_17:

(15, 15347), (16, 15356), (17, 15380), (20, 15404), (21, 15407), (22, 15410), (23, 15449), (24, 15452), (26, 15494), (28, 15506), (29, 15569), (34, 15641), (35, 15689), (36, 15695), (38, 15725), (39, 15755), (40, 15776), (41, 15800), (44, 15866), (45, 15869), (47, 15929), (48, 15932), (49, 15944), (50, 15965), (51, 15974), (53, 15992), (55, 16007), (56, 16040), (57, 16052), (60, 16088), (65, 16139), (66, 16145), (69, 16190), (72, 16259), (74, 16301), (76, 16358), (78, 16367), (80, 16394), (83, 16424), (84, 16436), (85, 16475),

Gene: SPB78_18 Start: 14539, Stop: 15684, Start Num: 18

Candidate Starts for SPB78_18:

(1, 13717), (2, 13744), (3, 13882), (5, 14044), (6, 14098), (12, 14380), (13, 14440), (18, 14539), (19, 14542), (22, 14560), (27, 14662), (30, 14740), (33, 14809), (36, 14866), (37, 14890), (42, 14992), (43, 15028), (55, 15193), (58, 15259), (59, 15271), (62, 15322), (67, 15370), (70, 15412), (74, 15508), (79, 15592), (84, 15646),