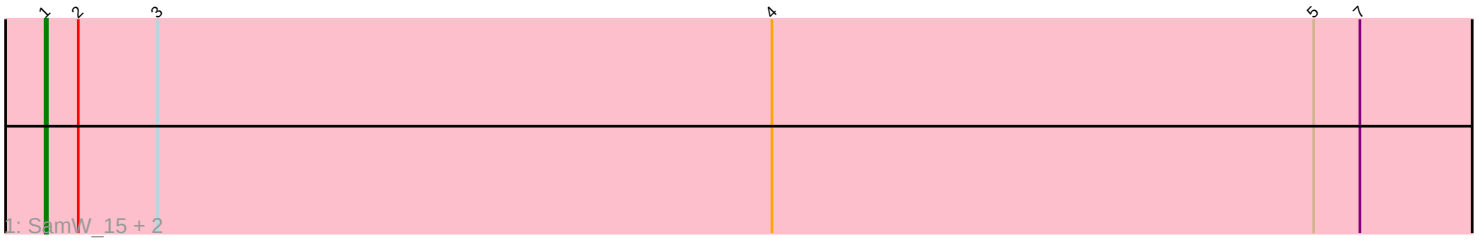
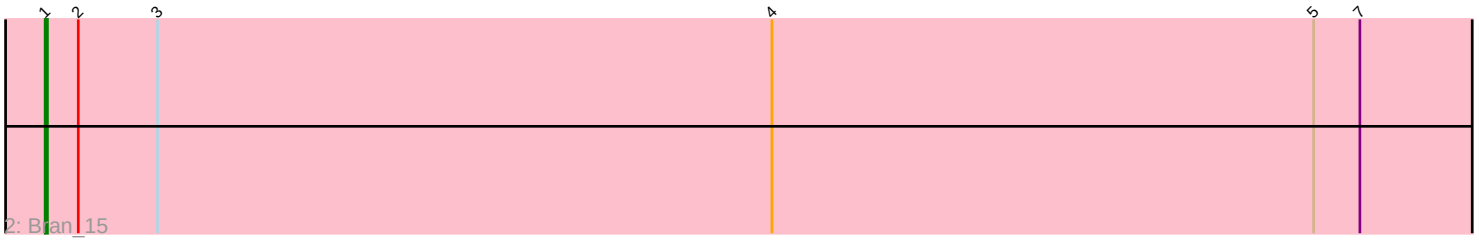
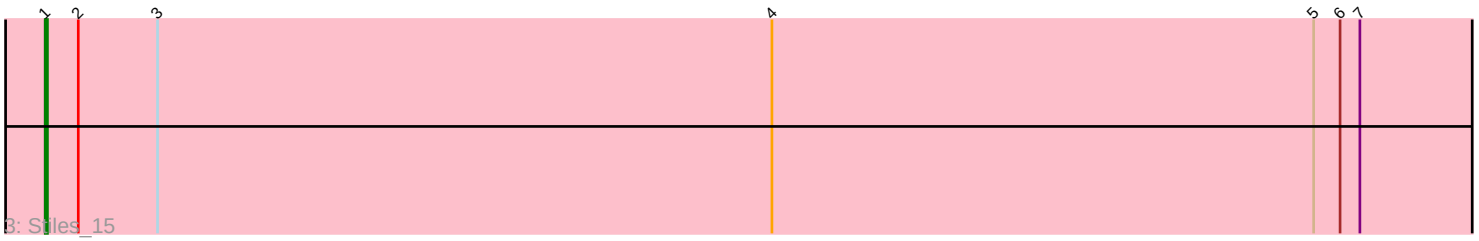
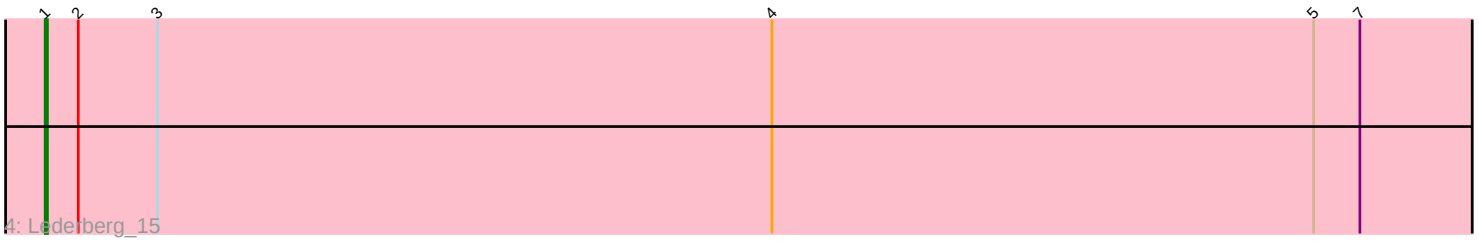
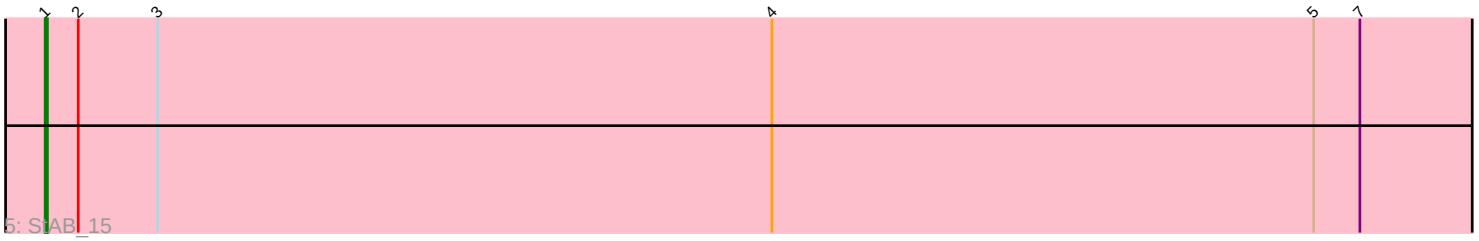
Zoomed Pham 348309

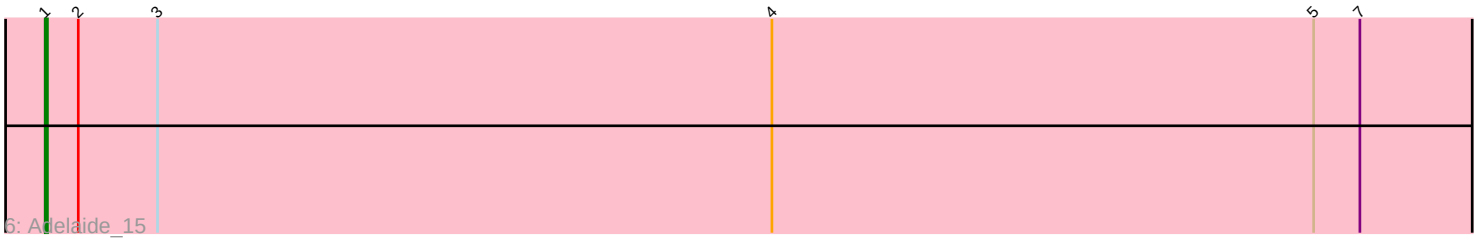












Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 348309 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348309 has 8 members, 0 are drafts.

Phages represented in each track:
• Track 1 : SamW_15, Troy_15, Dina_15
• Track 2 : Bran_15
• Track 3 : Stiles_15
• Track 4 : Lederberg_15
• Track 5 : StAB_15
• Track 6 : Adelaide_15

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

The start number called the most often in the published annotations is 1, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adelaide_15, Bran_15, Dina_15, Lederberg_15, SamW_15, StAB_15, Stiles_15, Troy_15,

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

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

Summary by start number:

Start 1:
• Found in 8 of 8 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adelaide_15 (EP), Bran_15 (EP), Dina_15 (EP), Lederberg_15 (EP), SamW_15 (EP), StAB_15 (EP), Stiles_15 (EP), Troy_15 (EP),

Summary by clusters:

There is one cluster represented in this pham: EP

Info for manual annotations of cluster EP:
•Start number 1 was manually annotated 8 times for cluster EP.

Gene Information:

Gene: Adelaide_15 Start: 9722, Stop: 15133, Start Num: 1
Candidate Starts for Adelaide_15:
(Start: 1 @9722 has 8 MA's), (2, 9737), (3, 9773), (4, 10052), (5, 10298), (7, 10319), (8, 10472), (9, 10502), (10, 10577), (11, 10589), (12, 10622), (13, 10682), (14, 10727), (15, 10769), (16, 10796), (18, 10865), (19, 10901), (20, 10976), (21, 11015), (22, 11138), (23, 11159), (24, 11180), (26, 11204), (28, 11300), (29, 11363), (30, 11366), (31, 11465), (32, 11534), (33, 11540), (34, 11579), (35, 11660), (37, 11825), (38, 11969), (42, 12158), (44, 12224), (45, 12305), (47, 12341), (48, 12362), (49, 12383), (50, 12455), (53, 12569), (54, 12587), (55, 12644), (58, 12698), (59, 12776), (60, 12797), (61, 12872), (62, 13001), (63, 13106), (64, 13184), (65, 13208), (66, 13238), (67, 13268), (68, 13364), (69, 13475), (70, 13499), (71, 13544), (72, 13586), (73, 13685), (74, 13772), (75, 13832), (76, 13871), (77, 13925), (78, 14093), (79, 14159), (80, 14207), (81, 14225), (82, 14333), (83, 14357), (84, 14396), (85, 14423), (86, 14462), (87, 14483), (88, 14618), (90, 14675), (91, 14744), (92, 14807), (93, 14828), (94, 14930), (95, 15026), (96, 15029),

Gene: Bran_15 Start: 9727, Stop: 15138, Start Num: 1
Candidate Starts for Bran_15:
(Start: 1 @9727 has 8 MA's), (2, 9742), (3, 9778), (4, 10057), (5, 10303), (7, 10324), (8, 10477), (9, 10507), (10, 10582), (11, 10594), (12, 10627), (13, 10687), (14, 10732), (15, 10774), (16, 10801), (18, 10870), (19, 10906), (20, 10981), (21, 11020), (22, 11143), (23, 11164), (24, 11185), (26, 11209), (27, 11275), (29, 11368), (30, 11371), (31, 11470), (32, 11539), (33, 11545), (34, 11584), (35, 11665), (37, 11830), (38, 11974), (42, 12163), (44, 12229), (45, 12310), (46, 12340), (47, 12346), (48, 12367), (49, 12388), (50, 12460), (53, 12574), (54, 12592), (55, 12649), (58, 12703), (59, 12781), (60, 12802), (61, 12877), (62, 13006), (63, 13111), (64, 13189), (65, 13213), (66, 13243), (67, 13273), (68, 13369), (69, 13480), (70, 13504), (71, 13549), (72, 13591), (73, 13690), (74, 13777), (75, 13837), (76, 13876), (77, 13930), (78, 14098), (79, 14164), (80, 14212), (81, 14230), (82, 14338), (83, 14362), (84, 14401), (85, 14428), (86, 14467), (87, 14488), (88, 14623), (90, 14680), (91, 14749), (92, 14812), (93, 14833), (94, 14935), (95, 15031), (96, 15034),

Gene: Dina_15 Start: 9711, Stop: 15101, Start Num: 1
Candidate Starts for Dina_15:
(Start: 1 @9711 has 8 MA's), (2, 9726), (3, 9762), (4, 10041), (5, 10287), (7, 10308), (8, 10461), (9, 10491), (10, 10566), (11, 10578), (12, 10611), (13, 10671), (14, 10716), (15, 10758), (16, 10785), (17, 10821), (18, 10854), (19, 10890), (20, 10965), (21, 11004), (22, 11127), (23, 11148), (24, 11169), (26, 11193), (27, 11259), (29, 11352), (30, 11355), (31, 11454), (32, 11523), (33, 11529), (34, 11568), (35, 11649), (37, 11814), (38, 11958), (42, 12147), (44, 12213), (47, 12330), (48, 12351), (49, 12372), (50, 12444), (53, 12558), (54, 12576), (57, 12654), (58, 12687), (59, 12765), (60, 12786), (62, 12990), (63, 13095), (64, 13173), (65, 13197), (66, 13227), (67, 13257), (68, 13353), (69, 13464), (70, 13488), (71, 13533), (72, 13575), (73, 13674), (74, 13761), (75, 13821), (76, 13860), (77, 13914), (78, 14061), (79, 14127), (80, 14175), (81, 14193), (82, 14301), (83, 14325), (84, 14364), (85, 14391), (86, 14430), (87, 14451), (88, 14586), (89, 14604), (90, 14643), (91, 14712), (92, 14775), (93, 14796), (94, 14898), (95, 14994), (96, 14997),

Gene: Lederberg_15 Start: 9709, Stop: 15120, Start Num: 1
Candidate Starts for Lederberg_15:

(Start: 1 @9709 has 8 MA's), (2, 9724), (3, 9760), (4, 10039), (5, 10285), (7, 10306), (8, 10459), (9, 10489), (10, 10564), (11, 10576), (12, 10609), (13, 10669), (14, 10714), (15, 10756), (16, 10783), (17, 10819), (18, 10852), (19, 10888), (20, 10963), (21, 11002), (22, 11125), (23, 11146), (24, 11167), (26, 11191), (27, 11257), (29, 11350), (30, 11353), (31, 11452), (32, 11521), (33, 11527), (34, 11566), (35, 11647), (37, 11812), (38, 11956), (42, 12145), (44, 12211), (47, 12328), (48, 12349), (49, 12370), (50, 12442), (53, 12556), (54, 12574), (57, 12652), (58, 12685), (59, 12763), (60, 12784), (62, 12988), (63, 13093), (64, 13171), (65, 13195), (66, 13225), (67, 13255), (69, 13462), (70, 13486), (71, 13531), (72, 13573), (73, 13672), (74, 13759), (75, 13819), (76, 13858), (77, 13912), (78, 14080), (79, 14146), (80, 14194), (81, 14212), (82, 14320), (83, 14344), (84, 14383), (85, 14410), (86, 14449), (87, 14470), (88, 14605), (89, 14623), (90, 14662), (91, 14731), (92, 14794), (93, 14815), (94, 14917), (95, 15013), (96, 15016),

Gene: SamW_15 Start: 9709, Stop: 15099, Start Num: 1
Candidate Starts for SamW_15:
(Start: 1 @9709 has 8 MA's), (2, 9724), (3, 9760), (4, 10039), (5, 10285), (7, 10306), (8, 10459), (9, 10489), (10, 10564), (11, 10576), (12, 10609), (13, 10669), (14, 10714), (15, 10756), (16, 10783), (17, 10819), (18, 10852), (19, 10888), (20, 10963), (21, 11002), (22, 11125), (23, 11146), (24, 11167), (26, 11191), (27, 11257), (29, 11350), (30, 11353), (31, 11452), (32, 11521), (33, 11527), (34, 11566), (35, 11647), (37, 11812), (38, 11956), (42, 12145), (44, 12211), (47, 12328), (48, 12349), (49, 12370), (50, 12442), (53, 12556), (54, 12574), (57, 12652), (58, 12685), (59, 12763), (60, 12784), (62, 12988), (63, 13093), (64, 13171), (65, 13195), (66, 13225), (67, 13255), (68, 13351), (69, 13462), (70, 13486), (71, 13531), (72, 13573), (73, 13672), (74, 13759), (75, 13819), (76, 13858), (77, 13912), (78, 14059), (79, 14125), (80, 14173), (81, 14191), (82, 14299), (83, 14323), (84, 14362), (85, 14389), (86, 14428), (87, 14449), (88, 14584), (89, 14602), (90, 14641), (91, 14710), (92, 14773), (93, 14794), (94, 14896), (95, 14992), (96, 14995),

Gene: StAB_15 Start: 9715, Stop: 15126, Start Num: 1
Candidate Starts for StAB_15:
(Start: 1 @9715 has 8 MA's), (2, 9730), (3, 9766), (4, 10045), (5, 10291), (7, 10312), (8, 10465), (9, 10495), (10, 10570), (11, 10582), (12, 10615), (13, 10675), (14, 10720), (15, 10762), (16, 10789), (17, 10825), (18, 10858), (19, 10894), (20, 10969), (21, 11008), (22, 11131), (23, 11152), (24, 11173), (26, 11197), (27, 11263), (29, 11356), (30, 11359), (31, 11458), (32, 11527), (33, 11533), (34, 11572), (35, 11653), (37, 11818), (38, 11962), (42, 12151), (44, 12217), (45, 12298), (47, 12334), (48, 12355), (49, 12376), (50, 12448), (53, 12562), (54, 12580), (57, 12658), (58, 12691), (59, 12769), (60, 12790), (61, 12865), (62, 12994), (63, 13099), (64, 13177), (65, 13201), (66, 13231), (67, 13261), (69, 13468), (70, 13492), (71, 13537), (72, 13579), (73, 13678), (74, 13765), (75, 13825), (76, 13864), (77, 13918), (78, 14086), (79, 14152), (80, 14200), (81, 14218), (82, 14326), (83, 14350), (84, 14389), (85, 14416), (86, 14455), (87, 14476), (88, 14611), (90, 14668), (91, 14737), (92, 14800), (93, 14821), (94, 14923), (95, 15019), (96, 15022),

Gene: Stiles_15 Start: 9709, Stop: 14904, Start Num: 1
Candidate Starts for Stiles_15:
(Start: 1 @9709 has 8 MA's), (2, 9724), (3, 9760), (4, 10039), (5, 10285), (6, 10297), (7, 10306), (8, 10459), (9, 10489), (10, 10564), (11, 10576), (12, 10609), (13, 10669), (14, 10714), (15, 10756), (16, 10783), (17, 10819), (18, 10852), (19, 10888), (20, 10963), (21, 11002), (22, 11125), (23, 11146), (24, 11167), (25, 11179), (26, 11191), (28, 11287), (30, 11353), (31, 11452), (32, 11521), (33, 11527), (34, 11566), (36, 11710), (39, 11929), (40, 11938), (41, 11971), (43, 12106), (50, 12283), (51, 12316), (52, 12325), (53, 12358), (56, 12418), (57, 12436), (58, 12469), (59, 12547), (60, 12568), (62, 12772), (63, 12877), (64, 12955), (65, 12979), (66, 13009), (67, 13039), (68, 13135), (69, 13246), (70, 13270), (71, 13315), (72, 13357), (73, 13456), (74, 13543), (75, 13603), (76, 13642), (77, 13696), (78, 13864), (79, 13930), (80, 13978), (81, 13996), (82, 14104), (83, 14128), (84, 14167), (85, 14194), (86, 14233), (87, 14254), (88, 14389), (90, 14446), (91, 14515), (92, 14578), (93, 14599), (94, 14701), (95, 14797), (96, 14800),

Gene: Troy_15 Start: 9709, Stop: 15099, Start Num: 1
Candidate Starts for Troy_15:
(Start: 1 @9709 has 8 MA's), (2, 9724), (3, 9760), (4, 10039), (5, 10285), (7, 10306), (8, 10459), (9, 10489), (10, 10564), (11, 10576), (12, 10609), (13, 10669), (14, 10714), (15, 10756), (16, 10783), (17, 10819), (18, 10852), (19, 10888), (20, 10963), (21, 11002), (22, 11125), (23, 11146), (24, 11167), (26, 11191), (27, 11257), (29, 11350), (30, 11353), (31, 11452), (32, 11521), (33, 11527), (34, 11566), (35, 11647), (37, 11812), (38, 11956), (42, 12145), (44, 12211), (47, 12328), (48, 12349), (49, 12370), (50, 12442), (53, 12556), (54, 12574), (57, 12652), (58, 12685), (59, 12763), (60, 12784), (62, 12988), (63, 13093), (64, 13171), (65, 13195), (66, 13225), (67, 13255), (68, 13351), (69, 13462), (70, 13486), (71, 13531), (72, 13573), (73, 13672), (74, 13759), (75, 13819), (76, 13858), (77, 13912), (78, 14059), (79, 14125), (80, 14173), (81, 14191), (82, 14299), (83, 14323), (84, 14362), (85, 14389), (86, 14428), (87, 14449), (88, 14584), (89, 14602), (90, 14641), (91, 14710), (92, 14773), (93, 14794), (94, 14896), (95, 14992), (96, 14995),