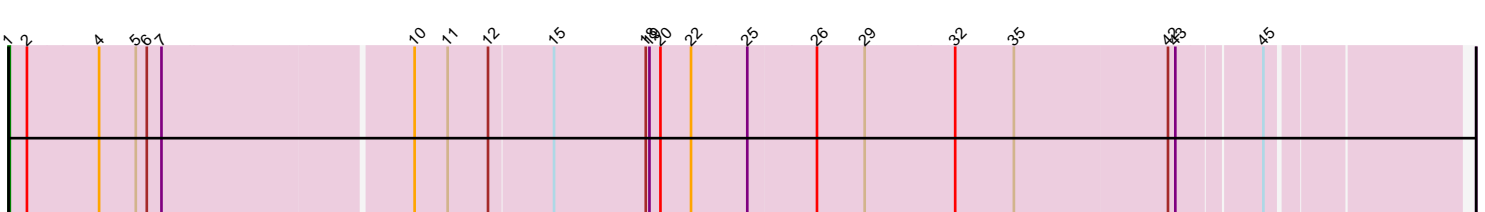
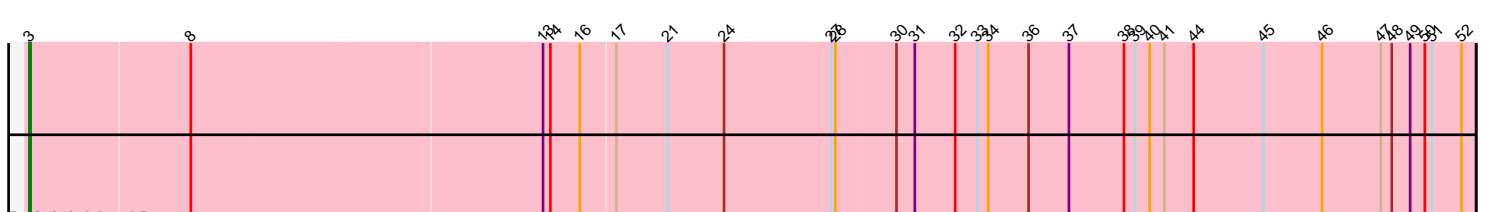
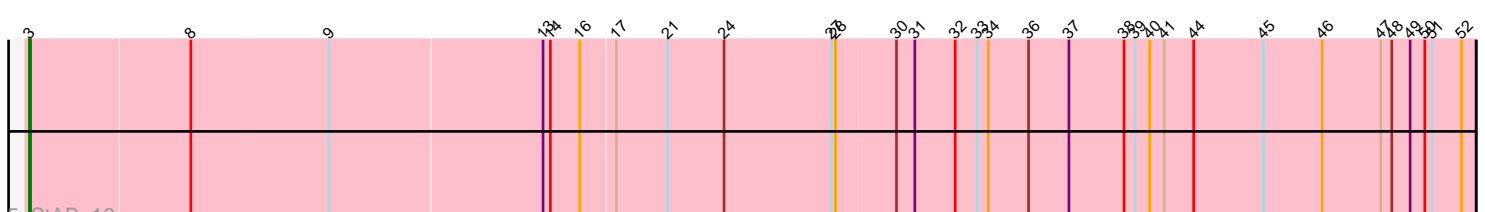
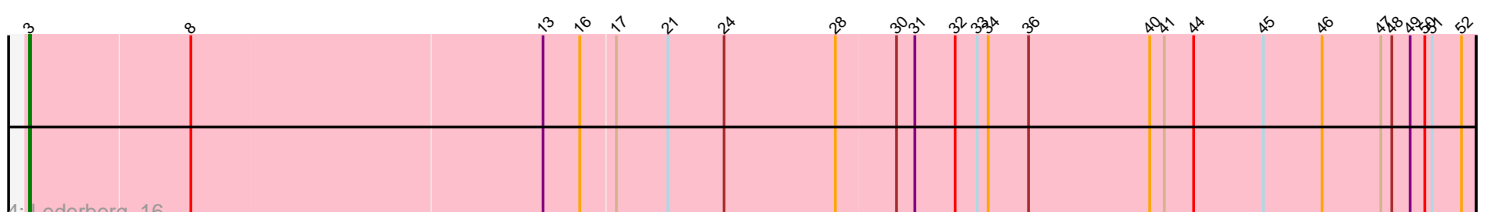
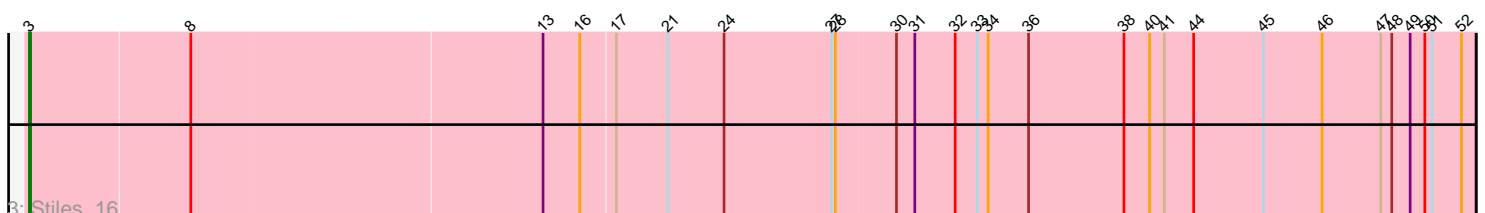
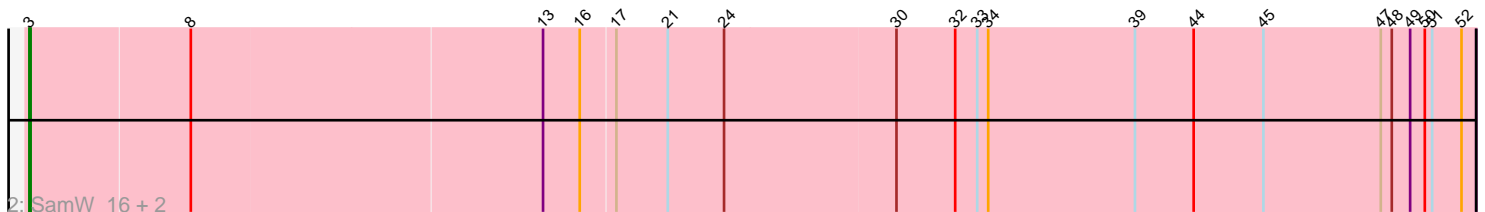
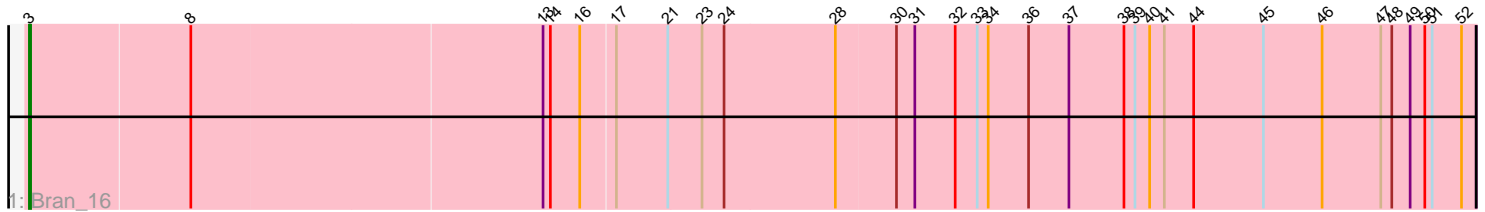


Pham 193106



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 193106 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193106 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bran_16
- Track 2 : SamW_16, Troy_16, Dina_16
- Track 3 : Stiles_16
- Track 4 : Lederberg_16
- Track 5 : StAB_16
- Track 6 : Adelaide_16
- Track 7 : Juicebox_18

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

The start number called the most often in the published annotations is 3, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adelaide_16, Bran_16, Dina_16, Lederberg_16, SamW_16, StAB_16, Stiles_16, Troy_16,

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

-

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

- Juicebox_18,

Summary by start number:

Start 1:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juicebox_18 (singleton),

Start 3:

- Found in 8 of 9 (88.9%) of genes in pham
- Manual Annotations of this start: 8 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adelaide_16 (EP), Bran_16 (EP), Dina_16 (EP), Lederberg_16 (EP), SamW_16 (EP), StAB_16 (EP), Stiles_16 (EP), Troy_16 (EP),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, EP,

Info for manual annotations of cluster EP:

- Start number 3 was manually annotated 8 times for cluster EP.

Gene Information:

Gene: Adelaide_16 Start: 15151, Stop: 16317, Start Num: 3

Candidate Starts for Adelaide_16:

(Start: 3 @15151 has 8 MA's), (8, 15280), (13, 15562), (14, 15568), (16, 15592), (17, 15619), (21, 15661), (24, 15706), (27, 15793), (28, 15796), (30, 15844), (31, 15859), (32, 15892), (33, 15910), (34, 15919), (36, 15952), (37, 15985), (38, 16030), (39, 16039), (40, 16051), (41, 16063), (44, 16087), (45, 16144), (46, 16192), (47, 16240), (48, 16249), (49, 16264), (50, 16276), (51, 16282), (52, 16306),

Gene: Bran_16 Start: 15156, Stop: 16322, Start Num: 3

Candidate Starts for Bran_16:

(Start: 3 @15156 has 8 MA's), (8, 15285), (13, 15567), (14, 15573), (16, 15597), (17, 15624), (21, 15666), (23, 15693), (24, 15711), (28, 15801), (30, 15849), (31, 15864), (32, 15897), (33, 15915), (34, 15924), (36, 15957), (37, 15990), (38, 16035), (39, 16044), (40, 16056), (41, 16068), (44, 16092), (45, 16149), (46, 16197), (47, 16245), (48, 16254), (49, 16269), (50, 16281), (51, 16287), (52, 16311),

Gene: Dina_16 Start: 15119, Stop: 16285, Start Num: 3

Candidate Starts for Dina_16:

(Start: 3 @15119 has 8 MA's), (8, 15248), (13, 15530), (16, 15560), (17, 15587), (21, 15629), (24, 15674), (30, 15812), (32, 15860), (33, 15878), (34, 15887), (39, 16007), (44, 16055), (45, 16112), (47, 16208), (48, 16217), (49, 16232), (50, 16244), (51, 16250), (52, 16274),

Gene: Juicebox_18 Start: 16606, Stop: 17736, Start Num: 1

Candidate Starts for Juicebox_18:

(Start: 1 @16606 has 1 MA's), (2, 16621), (4, 16678), (5, 16708), (6, 16717), (7, 16729), (10, 16921), (11, 16948), (12, 16981), (15, 17032), (18, 17107), (19, 17110), (20, 17119), (22, 17143), (25, 17188), (26, 17242), (29, 17281), (32, 17350), (35, 17398), (42, 17521), (43, 17527), (45, 17590),

Gene: Lederberg_16 Start: 15138, Stop: 16304, Start Num: 3

Candidate Starts for Lederberg_16:

(Start: 3 @15138 has 8 MA's), (8, 15267), (13, 15549), (16, 15579), (17, 15606), (21, 15648), (24, 15693), (28, 15783), (30, 15831), (31, 15846), (32, 15879), (33, 15897), (34, 15906), (36, 15939), (40, 16038), (41, 16050), (44, 16074), (45, 16131), (46, 16179), (47, 16227), (48, 16236), (49, 16251), (50, 16263), (51, 16269), (52, 16293),

Gene: SamW_16 Start: 15117, Stop: 16283, Start Num: 3

Candidate Starts for SamW_16:

(Start: 3 @15117 has 8 MA's), (8, 15246), (13, 15528), (16, 15558), (17, 15585), (21, 15627), (24, 15672), (30, 15810), (32, 15858), (33, 15876), (34, 15885), (39, 16005), (44, 16053), (45, 16110), (47,

16206), (48, 16215), (49, 16230), (50, 16242), (51, 16248), (52, 16272),

Gene: StAB_16 Start: 15144, Stop: 16310, Start Num: 3

Candidate Starts for StAB_16:

(Start: 3 @15144 has 8 MA's), (8, 15273), (9, 15384), (13, 15555), (14, 15561), (16, 15585), (17, 15612), (21, 15654), (24, 15699), (27, 15786), (28, 15789), (30, 15837), (31, 15852), (32, 15885), (33, 15903), (34, 15912), (36, 15945), (37, 15978), (38, 16023), (39, 16032), (40, 16044), (41, 16056), (44, 16080), (45, 16137), (46, 16185), (47, 16233), (48, 16242), (49, 16257), (50, 16269), (51, 16275), (52, 16299),

Gene: Stiles_16 Start: 14922, Stop: 16088, Start Num: 3

Candidate Starts for Stiles_16:

(Start: 3 @14922 has 8 MA's), (8, 15051), (13, 15333), (16, 15363), (17, 15390), (21, 15432), (24, 15477), (27, 15564), (28, 15567), (30, 15615), (31, 15630), (32, 15663), (33, 15681), (34, 15690), (36, 15723), (38, 15801), (40, 15822), (41, 15834), (44, 15858), (45, 15915), (46, 15963), (47, 16011), (48, 16020), (49, 16035), (50, 16047), (51, 16053), (52, 16077),

Gene: Troy_16 Start: 15117, Stop: 16283, Start Num: 3

Candidate Starts for Troy_16:

(Start: 3 @15117 has 8 MA's), (8, 15246), (13, 15528), (16, 15558), (17, 15585), (21, 15627), (24, 15672), (30, 15810), (32, 15858), (33, 15876), (34, 15885), (39, 16005), (44, 16053), (45, 16110), (47, 16206), (48, 16215), (49, 16230), (50, 16242), (51, 16248), (52, 16272),