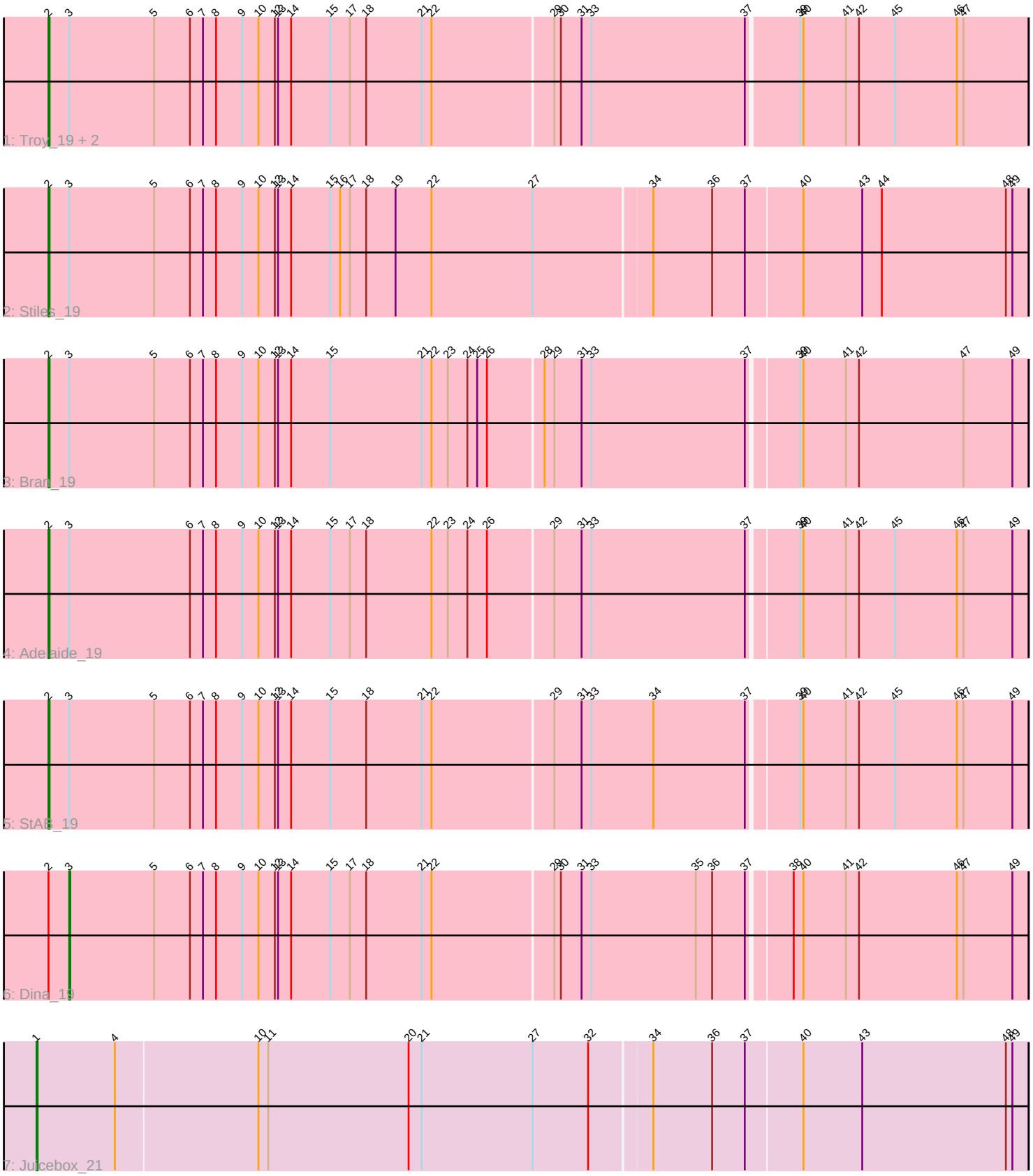
Pham 346422


1: Troy_19 + 2
2: Stiles_19
3: Bran_19
4: Adelaide_19
5: StAB_19
6: Dina_19
7: Juicebox_21

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 346422 Report

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

Pham number 346422 has 9 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Troy_19, SamW_19, Lederberg_19
• Track 2 : Stiles_19
• Track 3 : Bran_19
• Track 4 : Adelaide_19
• Track 5 : StAB_19
• Track 6 : Dina_19
• Track 7 : Juicebox_21

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

The start number called the most often in the published annotations is 2, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adelaide_19, Bran_19, Lederberg_19, SamW_19, StAB_19, Stiles_19, Troy_19,

Genes that have the "Most Annotated" start but do not call it:
• Dina_19,

Genes that do not have the "Most Annotated" start:
• Juicebox_21,

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_21 (singleton),

Start 2:
• Found in 8 of 9 (88.9%) of genes in pham
• Manual Annotations of this start: 7 of 9
• Called 87.5% of time when present

• Phage (with cluster) where this start called: Adelaide_19 (EP), Bran_19 (EP), Lederberg_19 (EP), SamW_19 (EP), StAB_19 (EP), Stiles_19 (EP), Troy_19 (EP),

Start 3:
• Found in 8 of 9 (88.9%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Dina_19 (EP),

Summary by clusters:

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

Info for manual annotations of cluster EP:
•Start number 2 was manually annotated 7 times for cluster EP.
•Start number 3 was manually annotated 1 time for cluster EP.

Gene Information:

Gene: Adelaide_19 Start: 18390, Stop: 19274, Start Num: 2
Candidate Starts for Adelaide_19:
(Start: 2 @18390 has 7 MA's), (Start: 3 @18408 has 1 MA's), (6, 18519), (7, 18531), (8, 18543), (9, 18567), (10, 18582), (12, 18597), (13, 18600), (14, 18612), (15, 18648), (17, 18666), (18, 18681), (22, 18741), (23, 18756), (24, 18774), (26, 18792), (29, 18849), (31, 18873), (33, 18882), (37, 19023), (39, 19065), (40, 19068), (41, 19107), (42, 19119), (45, 19152), (46, 19209), (47, 19215), (49, 19260),

Gene: Bran_19 Start: 18395, Stop: 19279, Start Num: 2
Candidate Starts for Bran_19:
(Start: 2 @18395 has 7 MA's), (Start: 3 @18413 has 1 MA's), (5, 18491), (6, 18524), (7, 18536), (8, 18548), (9, 18572), (10, 18587), (12, 18602), (13, 18605), (14, 18617), (15, 18653), (21, 18737), (22, 18746), (23, 18761), (24, 18779), (25, 18788), (26, 18797), (28, 18845), (29, 18854), (31, 18878), (33, 18887), (37, 19028), (39, 19070), (40, 19073), (41, 19112), (42, 19124), (47, 19220), (49, 19265),

Gene: Dina_19 Start: 18376, Stop: 19242, Start Num: 3
Candidate Starts for Dina_19:
(Start: 2 @18358 has 7 MA's), (Start: 3 @18376 has 1 MA's), (5, 18454), (6, 18487), (7, 18499), (8, 18511), (9, 18535), (10, 18550), (12, 18565), (13, 18568), (14, 18580), (15, 18616), (17, 18634), (18, 18649), (21, 18700), (22, 18709), (29, 18817), (30, 18823), (31, 18841), (33, 18850), (35, 18946), (36, 18961), (37, 18991), (38, 19027), (40, 19036), (41, 19075), (42, 19087), (46, 19177), (47, 19183), (49, 19228),

Gene: Juicebox_21 Start: 19783, Stop: 20682, Start Num: 1
Candidate Starts for Juicebox_21:
(Start: 1 @19783 has 1 MA's), (4, 19855), (10, 19984), (11, 19993), (20, 20122), (21, 20134), (27, 20236), (32, 20287), (34, 20341), (36, 20395), (37, 20425), (40, 20476), (43, 20530), (48, 20662), (49, 20668),

Gene: Lederberg_19 Start: 18377, Stop: 19264, Start Num: 2
Candidate Starts for Lederberg_19:
(Start: 2 @18377 has 7 MA's), (Start: 3 @18395 has 1 MA's), (5, 18473), (6, 18506), (7, 18518), (8, 18530), (9, 18554), (10, 18569), (12, 18584), (13, 18587), (14, 18599), (15, 18635), (17, 18653), (18,

18668), (21, 18719), (22, 18728), (29, 18836), (30, 18842), (31, 18860), (33, 18869), (37, 19010), (39, 19055), (40, 19058), (41, 19097), (42, 19109), (45, 19142), (46, 19199), (47, 19205),

Gene: SamW_19 Start: 18356, Stop: 19243, Start Num: 2
Candidate Starts for SamW_19:
(Start: 2 @18356 has 7 MA's), (Start: 3 @18374 has 1 MA's), (5, 18452), (6, 18485), (7, 18497), (8, 18509), (9, 18533), (10, 18548), (12, 18563), (13, 18566), (14, 18578), (15, 18614), (17, 18632), (18, 18647), (21, 18698), (22, 18707), (29, 18815), (30, 18821), (31, 18839), (33, 18848), (37, 18989), (39, 19034), (40, 19037), (41, 19076), (42, 19088), (45, 19121), (46, 19178), (47, 19184),

Gene: StAB_19 Start: 18383, Stop: 19267, Start Num: 2
Candidate Starts for StAB_19:
(Start: 2 @18383 has 7 MA's), (Start: 3 @18401 has 1 MA's), (5, 18479), (6, 18512), (7, 18524), (8, 18536), (9, 18560), (10, 18575), (12, 18590), (13, 18593), (14, 18605), (15, 18641), (18, 18674), (21, 18725), (22, 18734), (29, 18842), (31, 18866), (33, 18875), (34, 18932), (37, 19016), (39, 19058), (40, 19061), (41, 19100), (42, 19112), (45, 19145), (46, 19202), (47, 19208), (49, 19253),

Gene: Stiles_19 Start: 18161, Stop: 19051, Start Num: 2
Candidate Starts for Stiles_19:
(Start: 2 @18161 has 7 MA's), (Start: 3 @18179 has 1 MA's), (5, 18257), (6, 18290), (7, 18302), (8, 18314), (9, 18338), (10, 18353), (12, 18368), (13, 18371), (14, 18383), (15, 18419), (16, 18428), (17, 18437), (18, 18452), (19, 18479), (22, 18512), (27, 18605), (34, 18710), (36, 18764), (37, 18794), (40, 18845), (43, 18899), (44, 18917), (48, 19031), (49, 19037),

Gene: Troy_19 Start: 18356, Stop: 19243, Start Num: 2
Candidate Starts for Troy_19:
(Start: 2 @18356 has 7 MA's), (Start: 3 @18374 has 1 MA's), (5, 18452), (6, 18485), (7, 18497), (8, 18509), (9, 18533), (10, 18548), (12, 18563), (13, 18566), (14, 18578), (15, 18614), (17, 18632), (18, 18647), (21, 18698), (22, 18707), (29, 18815), (30, 18821), (31, 18839), (33, 18848), (37, 18989), (39, 19034), (40, 19037), (41, 19076), (42, 19088), (45, 19121), (46, 19178), (47, 19184),