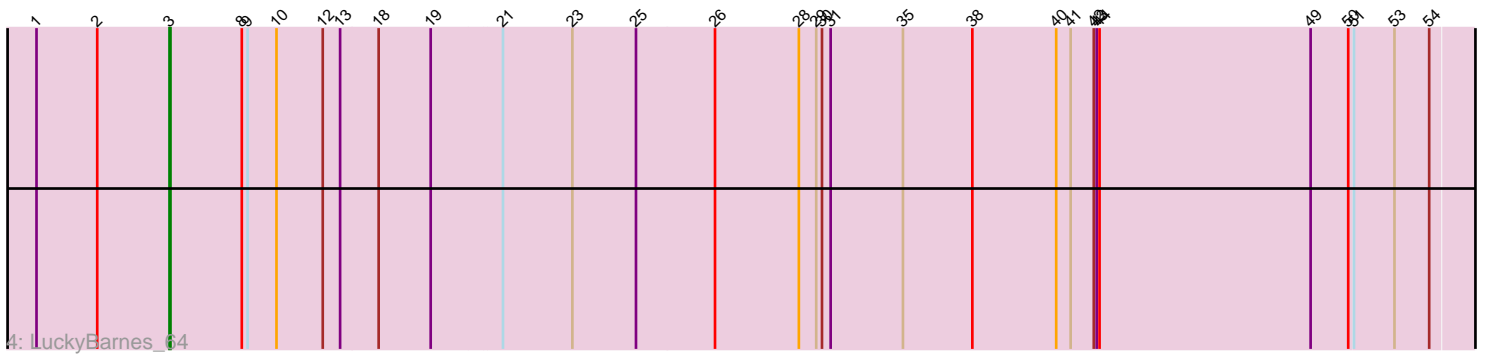
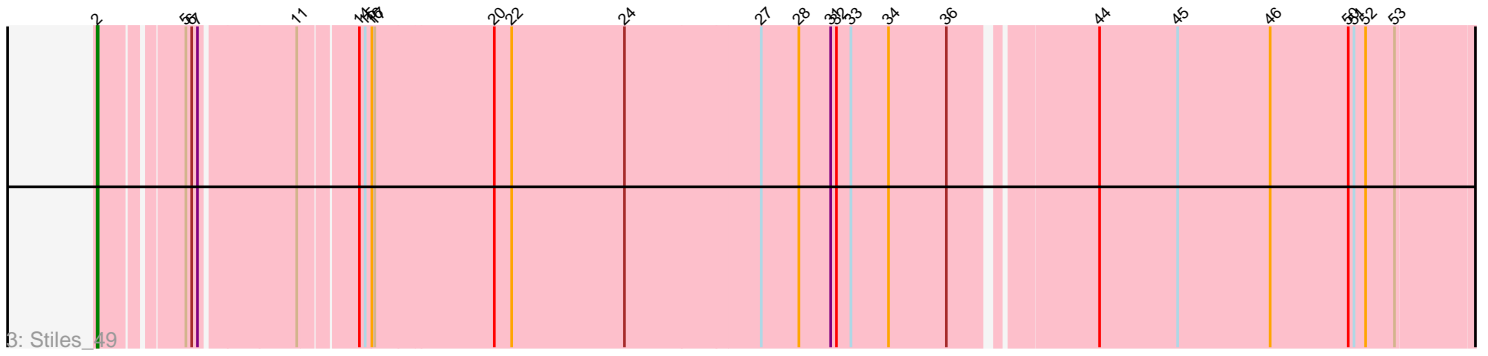
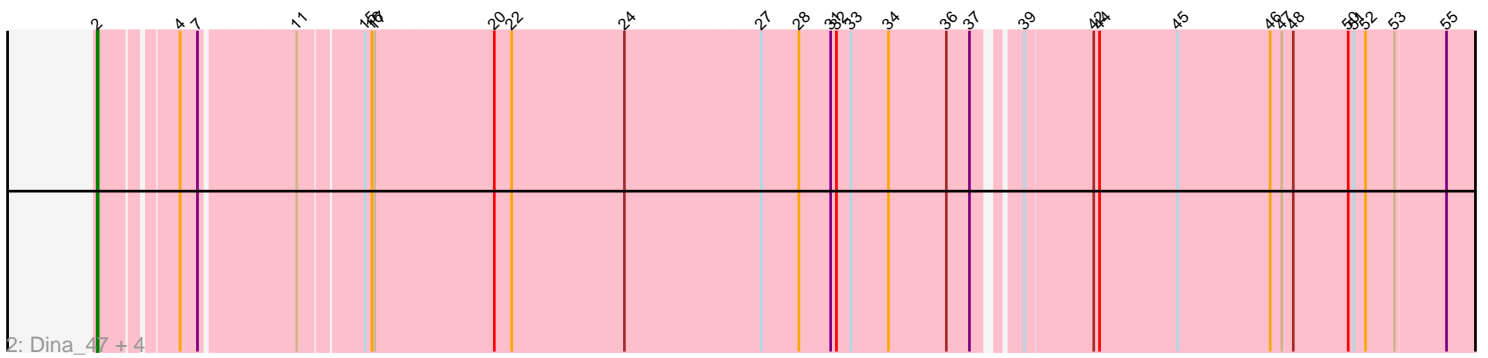
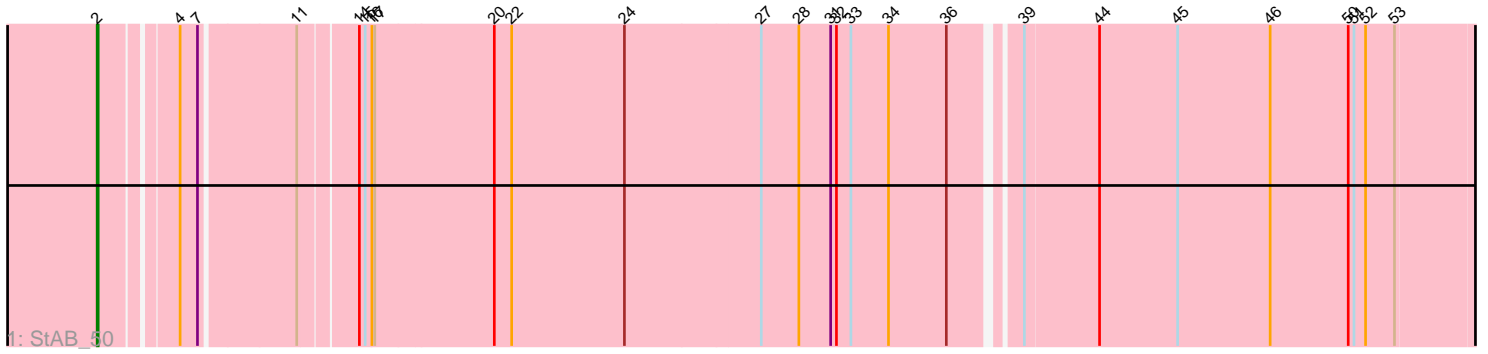


Pham 158406



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 158406 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158406 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : StAB_50
- Track 2 : Dina_47, Troy_45, Adelaide_46, SamW_45, Lederberg_45
- Track 3 : Stiles_49
- Track 4 : LuckyBarnes_64

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 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adelaide_46, Dina_47, Lederberg_45, SamW_45, StAB_50, Stiles_49, Troy_45,

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

- LuckyBarnes_64,

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

-

Summary by start number:

Start 2:

- Found in 8 of 8 (100.0%) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Adelaide_46 (EP), Dina_47 (EP), Lederberg_45 (EP), SamW_45 (EP), StAB_50 (EP), Stiles_49 (EP), Troy_45 (EP),

Start 3:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LuckyBarnes_64 (singleton),

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.

Gene Information:

Gene: Adelaide_46 Start: 37262, Stop: 38638, Start Num: 2

Candidate Starts for Adelaide_46:

(Start: 2 @37262 has 7 MA's), (4, 37331), (7, 37349), (11, 37442), (15, 37502), (16, 37508), (17, 37511), (20, 37631), (22, 37649), (24, 37766), (27, 37904), (28, 37943), (31, 37976), (32, 37982), (33, 37997), (34, 38036), (36, 38096), (37, 38120), (39, 38156), (42, 38225), (44, 38231), (45, 38312), (46, 38408), (47, 38420), (48, 38432), (50, 38489), (51, 38495), (52, 38507), (53, 38537), (55, 38588),

Gene: Dina_47 Start: 36338, Stop: 37714, Start Num: 2

Candidate Starts for Dina_47:

(Start: 2 @36338 has 7 MA's), (4, 36407), (7, 36425), (11, 36518), (15, 36578), (16, 36584), (17, 36587), (20, 36707), (22, 36725), (24, 36842), (27, 36980), (28, 37019), (31, 37052), (32, 37058), (33, 37073), (34, 37112), (36, 37172), (37, 37196), (39, 37232), (42, 37301), (44, 37307), (45, 37388), (46, 37484), (47, 37496), (48, 37508), (50, 37565), (51, 37571), (52, 37583), (53, 37613), (55, 37664),

Gene: Lederberg_45 Start: 37131, Stop: 38507, Start Num: 2

Candidate Starts for Lederberg_45:

(Start: 2 @37131 has 7 MA's), (4, 37200), (7, 37218), (11, 37311), (15, 37371), (16, 37377), (17, 37380), (20, 37500), (22, 37518), (24, 37635), (27, 37773), (28, 37812), (31, 37845), (32, 37851), (33, 37866), (34, 37905), (36, 37965), (37, 37989), (39, 38025), (42, 38094), (44, 38100), (45, 38181), (46, 38277), (47, 38289), (48, 38301), (50, 38358), (51, 38364), (52, 38376), (53, 38406), (55, 38457),

Gene: LuckyBarnes_64 Start: 49560, Stop: 48223, Start Num: 3

Candidate Starts for LuckyBarnes_64:

(1, 49698), (Start: 2 @49635 has 7 MA's), (Start: 3 @49560 has 1 MA's), (8, 49485), (9, 49479), (10, 49449), (12, 49401), (13, 49383), (18, 49344), (19, 49290), (21, 49221), (23, 49149), (25, 49083), (26, 49002), (28, 48915), (29, 48897), (30, 48891), (31, 48882), (35, 48807), (38, 48735), (40, 48648), (41, 48633), (42, 48609), (43, 48606), (44, 48603), (49, 48384), (50, 48345), (51, 48342), (53, 48300), (54, 48264),

Gene: SamW_45 Start: 36746, Stop: 38122, Start Num: 2

Candidate Starts for SamW_45:

(Start: 2 @36746 has 7 MA's), (4, 36815), (7, 36833), (11, 36926), (15, 36986), (16, 36992), (17, 36995), (20, 37115), (22, 37133), (24, 37250), (27, 37388), (28, 37427), (31, 37460), (32, 37466), (33, 37481), (34, 37520), (36, 37580), (37, 37604), (39, 37640), (42, 37709), (44, 37715), (45, 37796), (46, 37892), (47, 37904), (48, 37916), (50, 37973), (51, 37979), (52, 37991), (53, 38021), (55, 38072),

Gene: StAB_50 Start: 39824, Stop: 41185, Start Num: 2

Candidate Starts for StAB_50:

(Start: 2 @39824 has 7 MA's), (4, 39893), (7, 39911), (11, 40004), (14, 40058), (15, 40064), (16, 40070), (17, 40073), (20, 40193), (22, 40211), (24, 40328), (27, 40466), (28, 40505), (31, 40538), (32, 40544), (33, 40559), (34, 40598), (36, 40658), (39, 40718), (44, 40793), (45, 40874), (46, 40970), (50, 41051), (51, 41057), (52, 41069), (53, 41099),

Gene: Stiles_49 Start: 38782, Stop: 40143, Start Num: 2

Candidate Starts for Stiles_49:

(Start: 2 @38782 has 7 MA's), (5, 38857), (6, 38863), (7, 38869), (11, 38962), (14, 39016), (15, 39022), (16, 39028), (17, 39031), (20, 39151), (22, 39169), (24, 39286), (27, 39424), (28, 39463), (31, 39496), (32, 39502), (33, 39517), (34, 39556), (36, 39616), (44, 39751), (45, 39832), (46, 39928), (50, 40009), (51, 40015), (52, 40027), (53, 40057),

Gene: Troy_45 Start: 36746, Stop: 38122, Start Num: 2

Candidate Starts for Troy_45:

(Start: 2 @36746 has 7 MA's), (4, 36815), (7, 36833), (11, 36926), (15, 36986), (16, 36992), (17, 36995), (20, 37115), (22, 37133), (24, 37250), (27, 37388), (28, 37427), (31, 37460), (32, 37466), (33, 37481), (34, 37520), (36, 37580), (37, 37604), (39, 37640), (42, 37709), (44, 37715), (45, 37796), (46, 37892), (47, 37904), (48, 37916), (50, 37973), (51, 37979), (52, 37991), (53, 38021), (55, 38072),