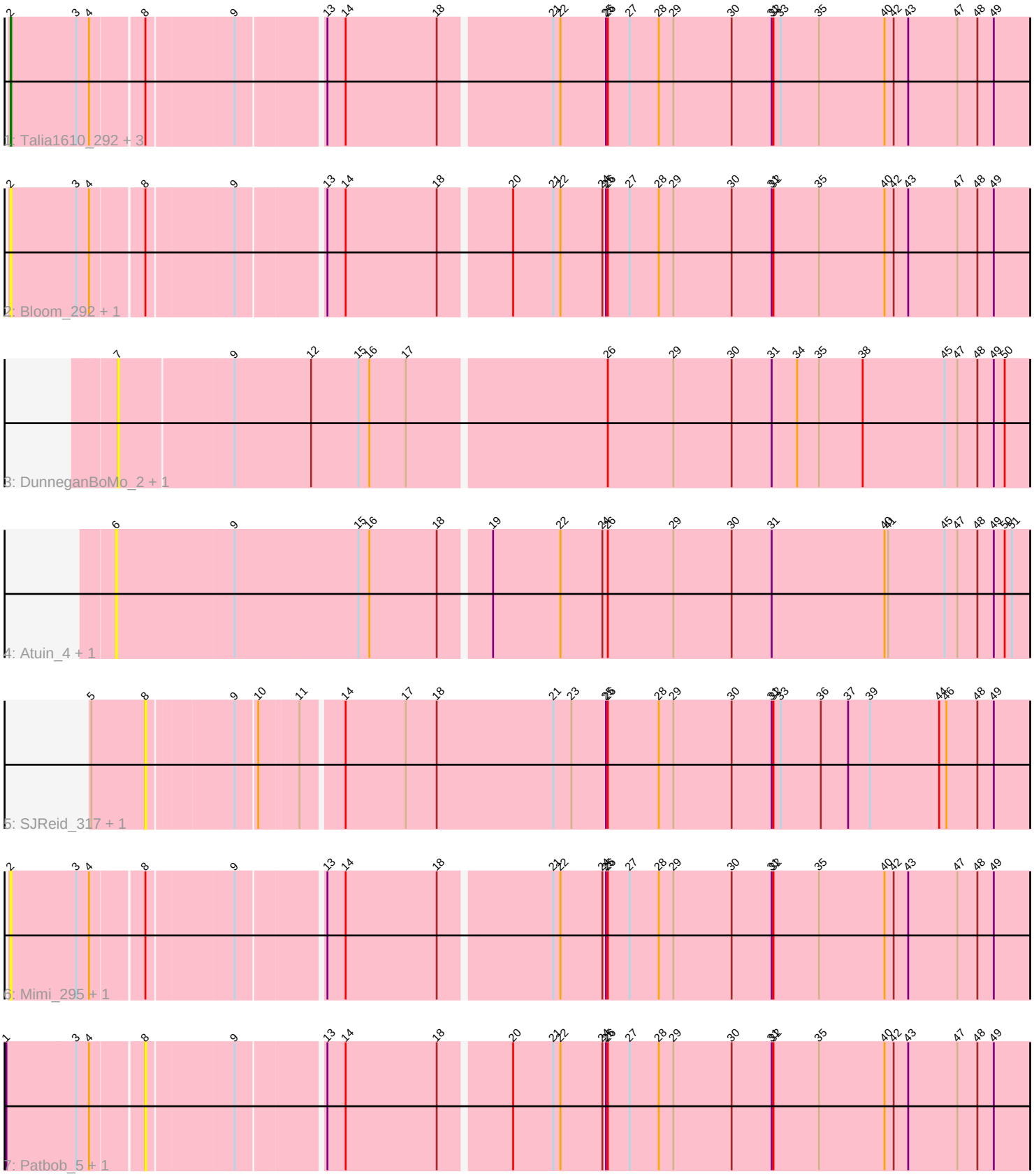
Pham 135947


1: Talia1610_292 + 3
2: Bloom_292 + 1
3: DunneganBoMo_2 + 1
4: Atuin_4 + 1
5: SJReid_317 + 1
6: Mimi_295 + 1
7: Patbob_5 + 1

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 135947 Report

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

Pham number 135947 has 16 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Talia1610_292, Racecar_5, Talia1610_5, Racecar_294
• Track 2 : Bloom_292, Bloom_5
• Track 3 : DunneganBoMo_2, DunneganBoMo_305
• Track 4 : Atuin_4, Atuin_311
• Track 5 : SJReid_317, SJReid_6
• Track 6 : Mimi_295, Mimi_5
• Track 7 : Patbob_5, Patbob_295

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 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_292, Bloom_5, Mimi_295, Mimi_5, Racecar_294, Racecar_5, Talia1610_292, Talia1610_5,

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

Genes that do not have the "Most Annotated" start:
• Atuin_311, Atuin_4, DunneganBoMo_2, DunneganBoMo_305, Patbob_295, Patbob_5, SJReid_317, SJReid_6,

Summary by start number:

Start 2:
• Found in 8 of 16 (50.0%) of genes in pham
• Manual Annotations of this start: 2 of 2
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_292 (FC), Bloom_5 (FC), Mimi_295 (FC), Mimi_5 (FC), Racecar_294 (FC), Racecar_5 (FC), Talia1610_292 (FC), Talia1610_5 (FC),

Start 6:
• Found in 2 of 16 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_311 (FC), Atuin_4 (FC),

Start 7:
• Found in 2 of 16 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_2 (FC), DunneganBoMo_305 (FC),

Start 8:
• Found in 12 of 16 (75.0%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Patbob_295 (FC), Patbob_5 (FC), SJReid_317 (FC), SJReid_6 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 2 was manually annotated 2 times for cluster FC.

Gene Information:

Gene: Atuin_4 Start: 3102, Stop: 1600, Start Num: 6
Candidate Starts for Atuin_4:
(6, 3102), (9, 2910), (15, 2709), (16, 2691), (18, 2580), (19, 2505), (22, 2394), (24, 2325), (26, 2316), (29, 2208), (30, 2112), (31, 2046), (40, 1860), (41, 1854), (45, 1761), (47, 1740), (48, 1707), (49, 1680), (50, 1662), (51, 1650),

Gene: Atuin_311 Start: 179990, Stop: 178488, Start Num: 6
Candidate Starts for Atuin_311:
(6, 179990), (9, 179798), (15, 179597), (16, 179579), (18, 179468), (19, 179393), (22, 179282), (24, 179213), (26, 179204), (29, 179096), (30, 179000), (31, 178934), (40, 178748), (41, 178742), (45, 178649), (47, 178628), (48, 178595), (49, 178568), (50, 178550), (51, 178538),

Gene: Bloom_292 Start: 177112, Stop: 175460, Start Num: 2
Candidate Starts for Bloom_292:
(Start: 2 @177112 has 2 MA's), (3, 177004), (4, 176983), (8, 176911), (9, 176776), (13, 176644), (14, 176614), (18, 176464), (20, 176356), (21, 176290), (22, 176278), (24, 176209), (25, 176203), (26, 176200), (27, 176164), (28, 176116), (29, 176092), (30, 175996), (31, 175930), (32, 175927), (35, 175852), (40, 175744), (42, 175729), (43, 175705), (47, 175624), (48, 175591), (49, 175564),

Gene: Bloom_5 Start: 3637, Stop: 1985, Start Num: 2
Candidate Starts for Bloom_5:

(Start: 2 @3637 has 2 MA's), (3, 3529), (4, 3508), (8, 3436), (9, 3301), (13, 3169), (14, 3139), (18, 2989), (20, 2881), (21, 2815), (22, 2803), (24, 2734), (25, 2728), (26, 2725), (27, 2689), (28, 2641), (29, 2617), (30, 2521), (31, 2455), (32, 2452), (35, 2377), (40, 2269), (42, 2254), (43, 2230), (47, 2149), (48, 2116), (49, 2089),

Gene: DunneganBoMo_2 Start: 2373, Stop: 877, Start Num: 7
Candidate Starts for DunneganBoMo_2:
(7, 2373), (9, 2190), (12, 2064), (15, 1986), (16, 1968), (17, 1908), (26, 1593), (29, 1485), (30, 1389), (31, 1323), (34, 1281), (35, 1245), (38, 1173), (45, 1038), (47, 1017), (48, 984), (49, 957), (50, 939),

Gene: DunneganBoMo_305 Start: 181785, Stop: 180289, Start Num: 7
Candidate Starts for DunneganBoMo_305:
(7, 181785), (9, 181602), (12, 181476), (15, 181398), (16, 181380), (17, 181320), (26, 181005), (29, 180897), (30, 180801), (31, 180735), (34, 180693), (35, 180657), (38, 180585), (45, 180450), (47, 180429), (48, 180396), (49, 180369), (50, 180351),

Gene: Mimi_295 Start: 176233, Stop: 174581, Start Num: 2
Candidate Starts for Mimi_295:
(Start: 2 @176233 has 2 MA's), (3, 176125), (4, 176104), (8, 176032), (9, 175897), (13, 175765), (14, 175735), (18, 175585), (21, 175411), (22, 175399), (24, 175330), (25, 175324), (26, 175321), (27, 175285), (28, 175237), (29, 175213), (30, 175117), (31, 175051), (32, 175048), (35, 174973), (40, 174865), (42, 174850), (43, 174826), (47, 174745), (48, 174712), (49, 174685),

Gene: Mimi_5 Start: 3573, Stop: 1921, Start Num: 2
Candidate Starts for Mimi_5:
(Start: 2 @3573 has 2 MA's), (3, 3465), (4, 3444), (8, 3372), (9, 3237), (13, 3105), (14, 3075), (18, 2925), (21, 2751), (22, 2739), (24, 2670), (25, 2664), (26, 2661), (27, 2625), (28, 2577), (29, 2553), (30, 2457), (31, 2391), (32, 2388), (35, 2313), (40, 2205), (42, 2190), (43, 2166), (47, 2085), (48, 2052), (49, 2025),

Gene: Patbob_5 Start: 3479, Stop: 2028, Start Num: 8
Candidate Starts for Patbob_5:
(1, 3686), (3, 3572), (4, 3551), (8, 3479), (9, 3344), (13, 3212), (14, 3182), (18, 3032), (20, 2924), (21, 2858), (22, 2846), (24, 2777), (25, 2771), (26, 2768), (27, 2732), (28, 2684), (29, 2660), (30, 2564), (31, 2498), (32, 2495), (35, 2420), (40, 2312), (42, 2297), (43, 2273), (47, 2192), (48, 2159), (49, 2132),

Gene: Patbob_295 Start: 178938, Stop: 177487, Start Num: 8
Candidate Starts for Patbob_295:
(1, 179145), (3, 179031), (4, 179010), (8, 178938), (9, 178803), (13, 178671), (14, 178641), (18, 178491), (20, 178383), (21, 178317), (22, 178305), (24, 178236), (25, 178230), (26, 178227), (27, 178191), (28, 178143), (29, 178119), (30, 178023), (31, 177957), (32, 177954), (35, 177879), (40, 177771), (42, 177756), (43, 177732), (47, 177651), (48, 177618), (49, 177591),

Gene: Racecar_5 Start: 3634, Stop: 1985, Start Num: 2
Candidate Starts for Racecar_5:
(Start: 2 @3634 has 2 MA's), (3, 3526), (4, 3505), (8, 3433), (9, 3301), (13, 3169), (14, 3139), (18, 2989), (21, 2815), (22, 2803), (25, 2728), (26, 2725), (27, 2689), (28, 2641), (29, 2617), (30, 2521), (31, 2455), (32, 2452), (33, 2440), (35, 2377), (40, 2269), (42, 2254), (43, 2230), (47, 2149), (48, 2116), (49, 2089),

Gene: Racecar_294 Start: 177343, Stop: 175694, Start Num: 2
Candidate Starts for Racecar_294:

(Start: 2 @177343 has 2 MA's), (3, 177235), (4, 177214), (8, 177142), (9, 177010), (13, 176878), (14, 176848), (18, 176698), (21, 176524), (22, 176512), (25, 176437), (26, 176434), (27, 176398), (28, 176350), (29, 176326), (30, 176230), (31, 176164), (32, 176161), (33, 176149), (35, 176086), (40, 175978), (42, 175963), (43, 175939), (47, 175858), (48, 175825), (49, 175798),

Gene: SJReid_317 Start: 176485, Stop: 175061, Start Num: 8
Candidate Starts for SJReid_317:
(5, 176569), (8, 176485), (9, 176353), (10, 176320), (11, 176260), (14, 176197), (17, 176098), (18, 176047), (21, 175855), (23, 175825), (25, 175768), (26, 175765), (28, 175681), (29, 175657), (30, 175561), (31, 175495), (32, 175492), (33, 175480), (36, 175414), (37, 175369), (39, 175333), (44, 175219), (46, 175207), (48, 175156), (49, 175129),

Gene: SJReid_6 Start: 3646, Stop: 2222, Start Num: 8
Candidate Starts for SJReid_6:
(5, 3730), (8, 3646), (9, 3514), (10, 3481), (11, 3421), (14, 3358), (17, 3259), (18, 3208), (21, 3016), (23, 2986), (25, 2929), (26, 2926), (28, 2842), (29, 2818), (30, 2722), (31, 2656), (32, 2653), (33, 2641), (36, 2575), (37, 2530), (39, 2494), (44, 2380), (46, 2368), (48, 2317), (49, 2290),

Gene: Talia1610_292 Start: 178060, Stop: 176408, Start Num: 2
Candidate Starts for Talia1610_292:
(Start: 2 @178060 has 2 MA's), (3, 177952), (4, 177931), (8, 177859), (9, 177724), (13, 177592), (14, 177562), (18, 177412), (21, 177238), (22, 177226), (25, 177151), (26, 177148), (27, 177112), (28, 177064), (29, 177040), (30, 176944), (31, 176878), (32, 176875), (33, 176863), (35, 176800), (40, 176692), (42, 176677), (43, 176653), (47, 176572), (48, 176539), (49, 176512),

Gene: Talia1610_5 Start: 3588, Stop: 1936, Start Num: 2
Candidate Starts for Talia1610_5:
(Start: 2 @3588 has 2 MA's), (3, 3480), (4, 3459), (8, 3387), (9, 3252), (13, 3120), (14, 3090), (18, 2940), (21, 2766), (22, 2754), (25, 2679), (26, 2676), (27, 2640), (28, 2592), (29, 2568), (30, 2472), (31, 2406), (32, 2403), (33, 2391), (35, 2328), (40, 2220), (42, 2205), (43, 2181), (47, 2100), (48, 2067), (49, 2040),