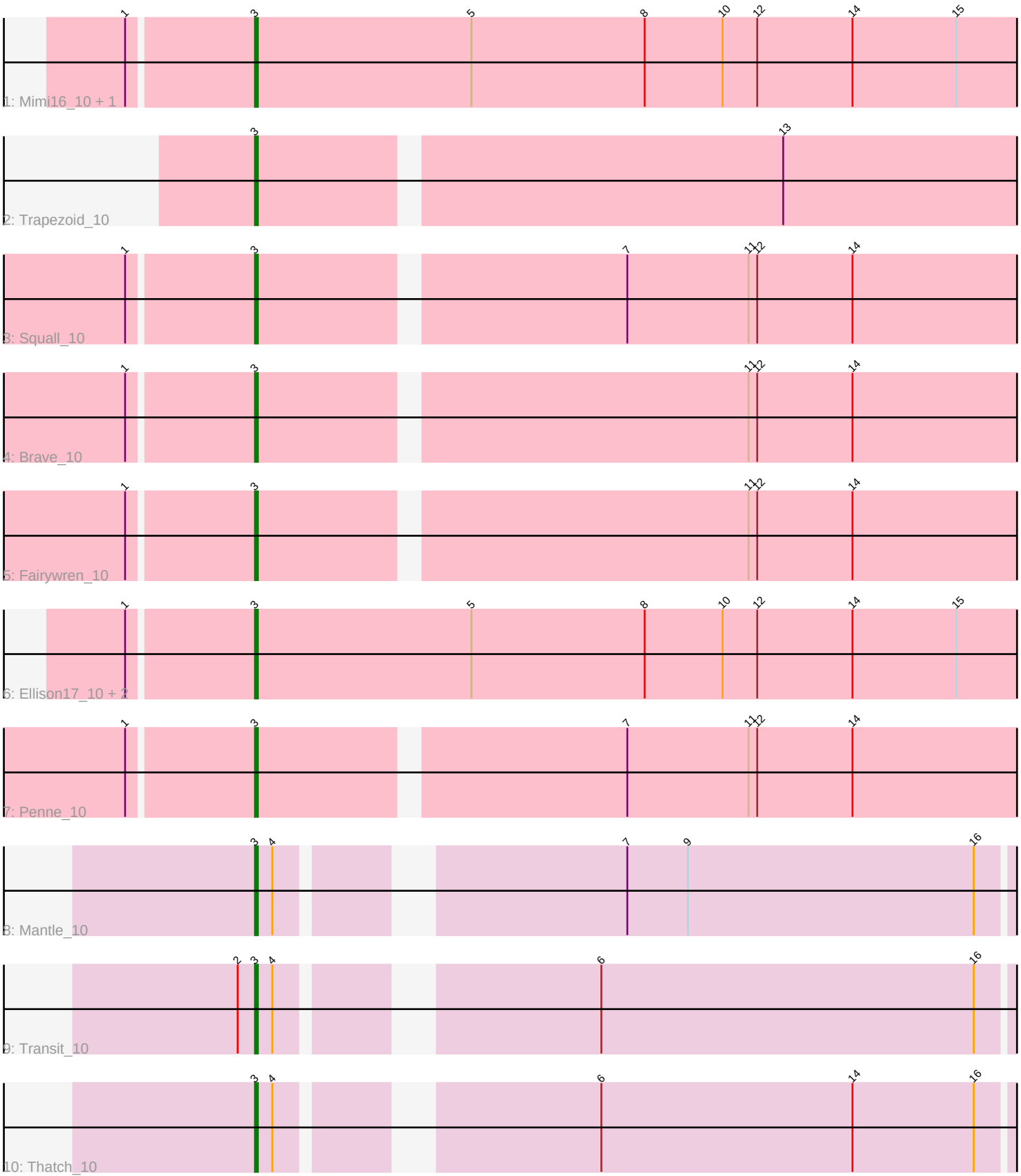
Zoomed Pham 200763



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 200763 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200763 has 13 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Mimi16_10, Prophecy_10
• Track 2 : Trapezoid_10
• Track 3 : Squall_10
• Track 4 : Brave_10
• Track 5 : Fairywren_10
• Track 6 : Ellison17_10, Momos_10, Grotle_10
• Track 7 : Penne_10
• Track 8 : Mantle_10
• Track 9 : Transit_10
• Track 10 : Thatch_10

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 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Brave_10, Ellison17_10, Fairywren_10, Grotle_10, Mantle_10, Mimi16_10, Momos_10, Penne_10, Prophecy_10, Squall_10, Thatch_10, Transit_10, Trapezoid_10,

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 3:
• Found in 13 of 13 (100.0%) of genes in pham
• Manual Annotations of this start: 13 of 13
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Brave_10 (JB), Ellison17_10 (JB), Fairywren_10 (JB), Grotle_10 (JB), Mantle_10 (JC), Mimi16_10 (JB), Momos_10 (JB), Penne_10 (JB), Prophecy_10 (JB), Squall_10 (JB), Thatch_10 (JC), Transit_10 (JC), Trapezoid_10 (JB),

Summary by clusters:

There are 2 clusters represented in this pham: JB, JC,

Info for manual annotations of cluster JB:
•Start number 3 was manually annotated 10 times for cluster JB.

Info for manual annotations of cluster JC:
•Start number 3 was manually annotated 3 times for cluster JC.

Gene Information:

Gene: Brave_10 Start: 9984, Stop: 11720, Start Num: 3
Candidate Starts for Brave_10:
(1, 9942), (Start: 3 @9984 has 13 MA's), (11, 10146), (12, 10149), (14, 10182), (19, 10296), (20, 10299), (22, 10344), (24, 10401), (25, 10416), (26, 10440), (31, 10527), (32, 10557), (33, 10590), (37, 10683), (39, 10692), (41, 10710), (42, 10770), (43, 10806), (53, 10992), (56, 11013), (59, 11088), (64, 11151), (66, 11175), (72, 11301), (74, 11349), (75, 11376), (77, 11421), (78, 11430), (83, 11595), (84, 11598), (87, 11655), (89, 11679), (90, 11688), (91, 11706),

Gene: Ellison17_10 Start: 9862, Stop: 11598, Start Num: 3
Candidate Starts for Ellison17_10:
(1, 9820), (Start: 3 @9862 has 13 MA's), (5, 9937), (8, 9997), (10, 10024), (12, 10036), (14, 10069), (15, 10105), (20, 10186), (22, 10231), (24, 10288), (26, 10327), (34, 10519), (35, 10528), (36, 10531), (37, 10558), (43, 10681), (44, 10690), (45, 10705), (48, 10741), (56, 10888), (58, 10960), (59, 10966), (63, 11017), (64, 11029), (66, 11053), (71, 11125), (72, 11179), (73, 11197), (74, 11227), (75, 11254), (76, 11269), (77, 11299), (78, 11308), (79, 11338), (82, 11404), (83, 11476), (87, 11536), (88, 11548),

Gene: Fairywren_10 Start: 9950, Stop: 11686, Start Num: 3
Candidate Starts for Fairywren_10:
(1, 9908), (Start: 3 @9950 has 13 MA's), (11, 10112), (12, 10115), (14, 10148), (19, 10262), (20, 10265), (24, 10367), (25, 10382), (26, 10406), (31, 10493), (32, 10523), (33, 10556), (37, 10649), (39, 10658), (41, 10676), (43, 10772), (53, 10958), (56, 10979), (59, 11054), (61, 11072), (62, 11075), (64, 11117), (66, 11141), (70, 11186), (72, 11267), (74, 11315), (75, 11342), (77, 11387), (78, 11396), (83, 11561), (84, 11564), (87, 11621), (89, 11645), (90, 11654), (91, 11672),

Gene: Grotle_10 Start: 9821, Stop: 11557, Start Num: 3
Candidate Starts for Grotle_10:
(1, 9779), (Start: 3 @9821 has 13 MA's), (5, 9896), (8, 9956), (10, 9983), (12, 9995), (14, 10028), (15, 10064), (20, 10145), (22, 10190), (24, 10247), (26, 10286), (34, 10478), (35, 10487), (36, 10490), (37, 10517), (43, 10640), (44, 10649), (45, 10664), (48, 10700), (56, 10847), (58, 10919), (59, 10925), (63, 10976), (64, 10988), (66, 11012), (71, 11084), (72, 11138), (73, 11156), (74, 11186), (75, 11213), (76, 11228), (77, 11258), (78, 11267), (79, 11297), (82, 11363), (83, 11435), (87, 11495), (88, 11507),

Gene: Mantle_10 Start: 10477, Stop: 12141, Start Num: 3
Candidate Starts for Mantle_10:

(Start: 3 @10477 has 13 MA's), (4, 10483), (7, 10585), (9, 10606), (16, 10705), (18, 10747), (21, 10813), (27, 10930), (30, 10978), (31, 11008), (34, 11092), (38, 11119), (40, 11140), (43, 11224), (46, 11257), (47, 11263), (49, 11326), (51, 11365), (52, 11401), (55, 11419), (58, 11503), (59, 11509), (64, 11575), (65, 11590), (66, 11599), (74, 11770), (75, 11794), (77, 11839), (78, 11848), (80, 11896), (81, 11911), (83, 12013), (85, 12031), (87, 12073), (88, 12085), (91, 12124),

Gene: Mimi16_10 Start: 9872, Stop: 11608, Start Num: 3
Candidate Starts for Mimi16_10:
(1, 9830), (Start: 3 @9872 has 13 MA's), (5, 9947), (8, 10007), (10, 10034), (12, 10046), (14, 10079), (15, 10115), (20, 10196), (22, 10241), (24, 10298), (26, 10337), (34, 10529), (35, 10538), (36, 10541), (37, 10568), (43, 10691), (44, 10700), (45, 10715), (48, 10751), (56, 10898), (58, 10970), (59, 10976), (63, 11027), (64, 11039), (66, 11063), (67, 11087), (71, 11135), (72, 11189), (73, 11207), (74, 11237), (75, 11264), (76, 11279), (77, 11309), (78, 11318), (79, 11348), (82, 11414), (83, 11486), (87, 11546), (88, 11558),

Gene: Momos_10 Start: 9862, Stop: 11598, Start Num: 3
Candidate Starts for Momos_10:
(1, 9820), (Start: 3 @9862 has 13 MA's), (5, 9937), (8, 9997), (10, 10024), (12, 10036), (14, 10069), (15, 10105), (20, 10186), (22, 10231), (24, 10288), (26, 10327), (34, 10519), (35, 10528), (36, 10531), (37, 10558), (43, 10681), (44, 10690), (45, 10705), (48, 10741), (56, 10888), (58, 10960), (59, 10966), (63, 11017), (64, 11029), (66, 11053), (71, 11125), (72, 11179), (73, 11197), (74, 11227), (75, 11254), (76, 11269), (77, 11299), (78, 11308), (79, 11338), (82, 11404), (83, 11476), (87, 11536), (88, 11548),

Gene: Penne_10 Start: 9987, Stop: 11723, Start Num: 3
Candidate Starts for Penne_10:
(1, 9945), (Start: 3 @9987 has 13 MA's), (7, 10107), (11, 10149), (12, 10152), (14, 10185), (19, 10299), (22, 10347), (24, 10404), (25, 10419), (26, 10443), (31, 10530), (32, 10560), (33, 10593), (37, 10686), (39, 10695), (41, 10713), (43, 10809), (53, 10995), (56, 11016), (59, 11091), (64, 11154), (66, 11178), (72, 11304), (74, 11352), (75, 11379), (77, 11424), (78, 11433), (83, 11598), (84, 11601), (87, 11658), (89, 11682), (90, 11691), (91, 11709),

Gene: Prophecy_10 Start: 9872, Stop: 11608, Start Num: 3
Candidate Starts for Prophecy_10:
(1, 9830), (Start: 3 @9872 has 13 MA's), (5, 9947), (8, 10007), (10, 10034), (12, 10046), (14, 10079), (15, 10115), (20, 10196), (22, 10241), (24, 10298), (26, 10337), (34, 10529), (35, 10538), (36, 10541), (37, 10568), (43, 10691), (44, 10700), (45, 10715), (48, 10751), (56, 10898), (58, 10970), (59, 10976), (63, 11027), (64, 11039), (66, 11063), (67, 11087), (71, 11135), (72, 11189), (73, 11207), (74, 11237), (75, 11264), (76, 11279), (77, 11309), (78, 11318), (79, 11348), (82, 11414), (83, 11486), (87, 11546), (88, 11558),

Gene: Squall_10 Start: 9954, Stop: 11690, Start Num: 3
Candidate Starts for Squall_10:
(1, 9912), (Start: 3 @9954 has 13 MA's), (7, 10074), (11, 10116), (12, 10119), (14, 10152), (19, 10266), (20, 10269), (22, 10314), (24, 10371), (25, 10386), (26, 10410), (31, 10497), (32, 10527), (33, 10560), (37, 10653), (39, 10662), (42, 10740), (43, 10776), (50, 10893), (53, 10962), (56, 10983), (59, 11058), (61, 11076), (62, 11079), (64, 11121), (66, 11145), (70, 11190), (72, 11271), (74, 11319), (75, 11346), (77, 11391), (78, 11400), (83, 11565), (84, 11568), (87, 11625), (89, 11649), (90, 11658), (91, 11676),

Gene: Thatch_10 Start: 10258, Stop: 11922, Start Num: 3
Candidate Starts for Thatch_10:
(Start: 3 @10258 has 13 MA's), (4, 10264), (6, 10357), (14, 10444), (16, 10486), (18, 10528), (21, 10594), (31, 10789), (34, 10873), (38, 10900), (40, 10921), (43, 11005), (47, 11044), (49, 11107), (52, 11182), (55, 11200), (58, 11284), (59, 11290), (64, 11356), (65, 11371), (66, 11380), (74, 11551), (75,

11575), (77, 11620), (78, 11629), (80, 11677), (81, 11692), (83, 11794), (85, 11812), (87, 11854), (88, 11866), (91, 11905),

Gene: Transit_10 Start: 10272, Stop: 11936, Start Num: 3
Candidate Starts for Transit_10:
(2, 10266), (Start: 3 @10272 has 13 MA's), (4, 10278), (6, 10371), (16, 10500), (18, 10542), (21, 10608), (27, 10725), (28, 10746), (29, 10755), (30, 10773), (31, 10803), (34, 10887), (40, 10935), (43, 11019), (47, 11058), (49, 11121), (52, 11196), (53, 11205), (54, 11211), (55, 11214), (59, 11304), (64, 11370), (65, 11385), (66, 11394), (68, 11430), (72, 11517), (74, 11565), (75, 11589), (78, 11643), (80, 11691), (81, 11706), (83, 11808), (85, 11826), (87, 11868), (88, 11880), (91, 11919),

Gene: Trapezoid_10 Start: 9847, Stop: 11583, Start Num: 3
Candidate Starts for Trapezoid_10:
(Start: 3 @9847 has 13 MA's), (13, 10021), (17, 10126), (22, 10207), (23, 10216), (24, 10264), (31, 10390), (33, 10453), (34, 10507), (37, 10546), (39, 10555), (42, 10633), (43, 10669), (53, 10855), (55, 10864), (56, 10876), (57, 10939), (59, 10951), (60, 10963), (63, 11002), (64, 11014), (66, 11038), (69, 11077), (75, 11239), (77, 11284), (78, 11293), (79, 11323), (83, 11458), (85, 11476), (86, 11506), (87, 11518), (90, 11551), (91, 11569),