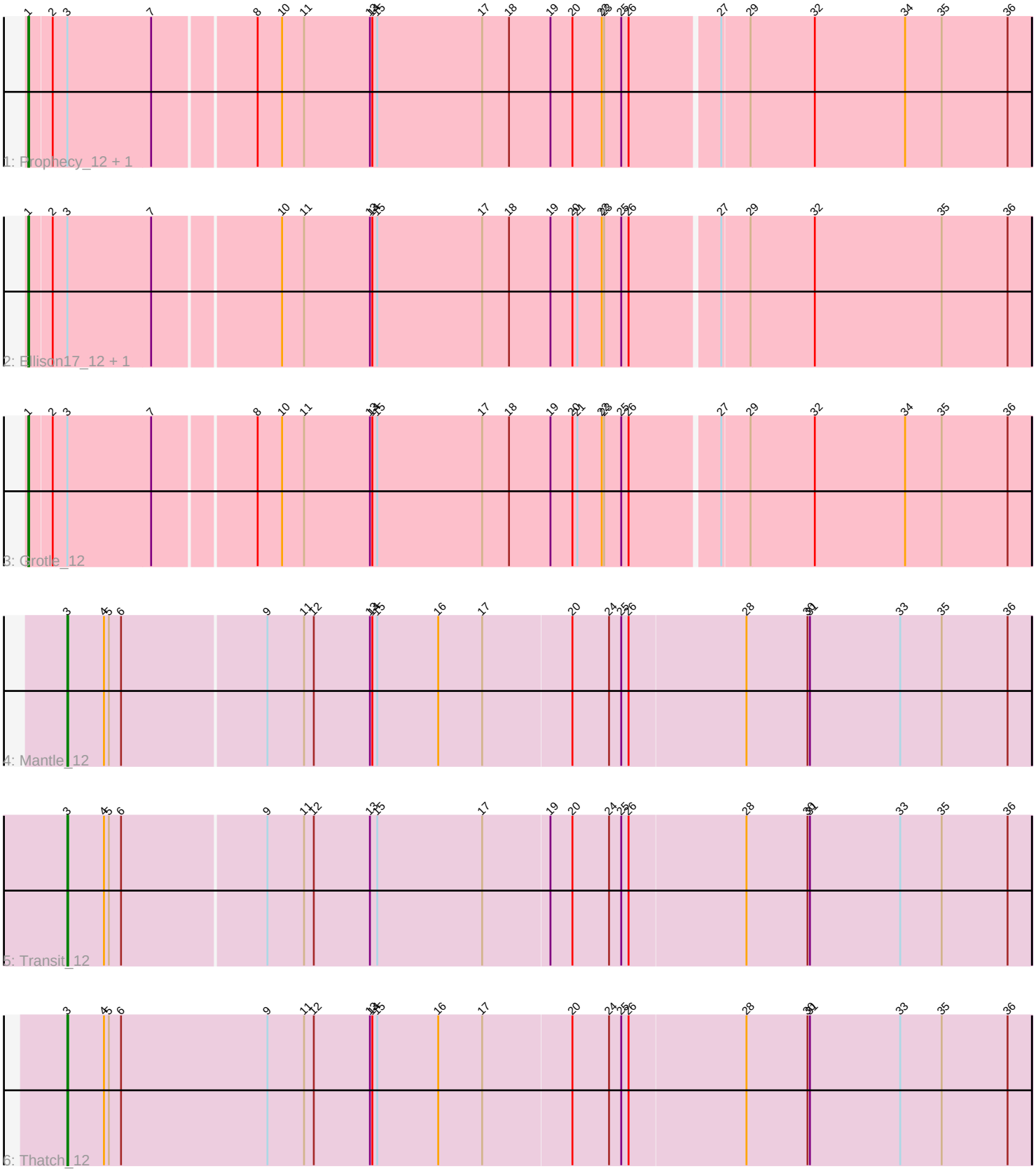
Pham 200904


1: Prophecy_12 + 1
2: Ellison17_12 + 1
3: Grotle_12
4: Mantle_12
5: Transit_12
6: Thatch_12

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 200904 Report

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

Pham number 200904 has 8 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Prophecy_12, Mimi16_12
• Track 2 : Ellison17_12, Momos_12
• Track 3 : Grotle_12
• Track 4 : Mantle_12
• Track 5 : Transit_12
• Track 6 : Thatch_12

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

The start number called the most often in the published annotations is 1, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ellison17_12, Grotle_12, Mimi16_12, Momos_12, Prophecy_12,

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

Genes that do not have the "Most Annotated" start:
• Mantle_12, Thatch_12, Transit_12,

Summary by start number:

Start 1:
• Found in 5 of 8 (62.5%) of genes in pham
• Manual Annotations of this start: 5 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ellison17_12 (JB), Grotle_12 (JB), Mimi16_12 (JB), Momos_12 (JB), Prophecy_12 (JB),

Start 3:
• Found in 8 of 8 (100.0%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 37.5% of time when present

• Phage (with cluster) where this start called: Mantle_12 (JC), Thatch_12 (JC), Transit_12 (JC),

Summary by clusters:

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

Info for manual annotations of cluster JB:
•Start number 1 was manually annotated 5 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: Ellison17_12 Start: 12271, Stop: 13473, Start Num: 1
Candidate Starts for Ellison17_12:
(Start: 1 @12271 has 5 MA's), (2, 12298), (Start: 3 @12316 has 3 MA's), (7, 12418), (10, 12565), (11, 12592), (13, 12673), (14, 12676), (15, 12682), (17, 12811), (18, 12844), (19, 12895), (20, 12922), (21, 12928), (22, 12958), (23, 12961), (25, 12982), (26, 12991), (27, 13096), (29, 13129), (32, 13207), (35, 13363), (36, 13444),

Gene: Grotle_12 Start: 12230, Stop: 13432, Start Num: 1
Candidate Starts for Grotle_12:
(Start: 1 @12230 has 5 MA's), (2, 12257), (Start: 3 @12275 has 3 MA's), (7, 12377), (8, 12494), (10, 12524), (11, 12551), (13, 12632), (14, 12635), (15, 12641), (17, 12770), (18, 12803), (19, 12854), (20, 12881), (21, 12887), (22, 12917), (23, 12920), (25, 12941), (26, 12950), (27, 13055), (29, 13088), (32, 13166), (34, 13277), (35, 13322), (36, 13403),

Gene: Mantle_12 Start: 12831, Stop: 14003, Start Num: 3
Candidate Starts for Mantle_12:
(Start: 3 @12831 has 3 MA's), (4, 12876), (5, 12882), (6, 12897), (9, 13071), (11, 13116), (12, 13128), (13, 13197), (14, 13200), (15, 13206), (16, 13281), (17, 13335), (20, 13443), (24, 13488), (25, 13503), (26, 13512), (28, 13653), (30, 13728), (31, 13731), (33, 13842), (35, 13893), (36, 13974),

Gene: Mimi16_12 Start: 12281, Stop: 13483, Start Num: 1
Candidate Starts for Mimi16_12:
(Start: 1 @12281 has 5 MA's), (2, 12308), (Start: 3 @12326 has 3 MA's), (7, 12428), (8, 12545), (10, 12575), (11, 12602), (13, 12683), (14, 12686), (15, 12692), (17, 12821), (18, 12854), (19, 12905), (20, 12932), (22, 12968), (23, 12971), (25, 12992), (26, 13001), (27, 13106), (29, 13139), (32, 13217), (34, 13328), (35, 13373), (36, 13454),

Gene: Momos_12 Start: 12271, Stop: 13473, Start Num: 1
Candidate Starts for Momos_12:
(Start: 1 @12271 has 5 MA's), (2, 12298), (Start: 3 @12316 has 3 MA's), (7, 12418), (10, 12565), (11, 12592), (13, 12673), (14, 12676), (15, 12682), (17, 12811), (18, 12844), (19, 12895), (20, 12922), (21, 12928), (22, 12958), (23, 12961), (25, 12982), (26, 12991), (27, 13096), (29, 13129), (32, 13207), (35, 13363), (36, 13444),

Gene: Prophecy_12 Start: 12281, Stop: 13483, Start Num: 1
Candidate Starts for Prophecy_12:

(Start: 1 @12281 has 5 MA's), (2, 12308), (Start: 3 @12326 has 3 MA's), (7, 12428), (8, 12545), (10, 12575), (11, 12602), (13, 12683), (14, 12686), (15, 12692), (17, 12821), (18, 12854), (19, 12905), (20, 12932), (22, 12968), (23, 12971), (25, 12992), (26, 13001), (27, 13106), (29, 13139), (32, 13217), (34, 13328), (35, 13373), (36, 13454),

Gene: Thatch_12 Start: 12606, Stop: 13784, Start Num: 3
Candidate Starts for Thatch_12:
(Start: 3 @12606 has 3 MA's), (4, 12651), (5, 12657), (6, 12672), (9, 12852), (11, 12897), (12, 12909), (13, 12978), (14, 12981), (15, 12987), (16, 13062), (17, 13116), (20, 13224), (24, 13269), (25, 13284), (26, 13293), (28, 13434), (30, 13509), (31, 13512), (33, 13623), (35, 13674), (36, 13755),

Gene: Transit_12 Start: 12627, Stop: 13799, Start Num: 3
Candidate Starts for Transit_12:
(Start: 3 @12627 has 3 MA's), (4, 12672), (5, 12678), (6, 12693), (9, 12867), (11, 12912), (12, 12924), (13, 12993), (15, 13002), (17, 13131), (19, 13212), (20, 13239), (24, 13284), (25, 13299), (26, 13308), (28, 13449), (30, 13524), (31, 13527), (33, 13638), (35, 13689), (36, 13770),