Pham 348028


1: Mimi_245 + 2
2: Phrampa_237
3: Talia1610_247
4: DunneganBoMo_244 + 1
5: DunneganBoMo_245 + 1
6: Panchaali_242
7: Emmetator_245
8: Emmetator_246
9: KSunshine22_252
10: KSunshine22_251 + 1
11: BooTeria_242
12: Artu_246
13: BooTeria_243
14: Ellewin_245
15: Ellewin_244
16: Stewart25555_246
17: Laure_289

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 348028 Report

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

Pham number 348028 has 22 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Mimi_245, Bloom_249, Racecar_247
• Track 2 : Phrampa_237
• Track 3 : Talia1610_247
• Track 4 : DunneganBoMo_244, WaddleDee_242
• Track 5 : DunneganBoMo_245, WaddleDee_243
• Track 6 : Panchaali_242
• Track 7 : Emmetator_245
• Track 8 : Emmetator_246
• Track 9 : KSunshine22_252
• Track 10 : KSunshine22_251, Artu_245
• Track 11 : BooTeria_242
• Track 12 : Artu_246
• Track 13 : BooTeria_243
• Track 14 : Ellewin_245
• Track 15 : Ellewin_244
• Track 16 : Stewart25555_246
• Track 17 : Laure_289

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

The start number called the most often in the published annotations is 13, it was called in 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_245, BooTeria_242, DunneganBoMo_244, Emmetator_245, KSunshine22_251, Panchaali_242, WaddleDee_242,

Genes that have the "Most Annotated" start but do not call it:
• Ellewin_244,

Genes that do not have the "Most Annotated" start:
• Artu_246, Bloom_249, BooTeria_243, DunneganBoMo_245, Ellewin_245, Emmetator_246, KSunshine22_252, Laure_289, Mimi_245, Phrampa_237, Racecar_247, Stewart25555_246, Talia1610_247, WaddleDee_243,

Summary by start number:

Start 2:
• Found in 1 of 22 (4.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Laure_289 (UNK),

Start 3:
• Found in 1 of 22 (4.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stewart25555_246 (FC),

Start 4:
• Found in 8 of 22 (36.4%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Artu_246 (FC), BooTeria_243 (FC), DunneganBoMo_245 (FC), Ellewin_245 (FC), Emmetator_246 (FC), KSunshine22_252 (FC), WaddleDee_243 (FC),

Start 12:
• Found in 4 of 22 (18.2%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_249 (FC), Mimi_245 (FC), Racecar_247 (FC), Talia1610_247 (FC),

Start 13:
• Found in 8 of 22 (36.4%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Artu_245 (FC), BooTeria_242 (FC), DunneganBoMo_244 (FC), Emmetator_245 (FC), KSunshine22_251 (FC), Panchaali_242 (FC), WaddleDee_242 (FC),

Start 14:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrampa_237 (FC),

Start 16:
• Found in 7 of 22 (31.8%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Ellewin_244 (FC),

Summary by clusters:

There are 2 clusters represented in this pham: UNK, FC,

Info for manual annotations of cluster FC:
•Start number 4 was manually annotated 5 times for cluster FC.
•Start number 12 was manually annotated 3 times for cluster FC.
•Start number 13 was manually annotated 5 times for cluster FC.
•Start number 14 was manually annotated 1 time for cluster FC.
•Start number 16 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Artu_246 Start: 163824, Stop: 164687, Start Num: 4
Candidate Starts for Artu_246:
(1, 163698), (Start: 4 @163824 has 5 MA's), (5, 163908), (6, 163911), (21, 164175), (28, 164280), (32, 164346),

Gene: Artu_245 Start: 163165, Stop: 163815, Start Num: 13
Candidate Starts for Artu_245:
(Start: 13 @163165 has 5 MA's), (Start: 16 @163183 has 1 MA's), (39, 163570), (42, 163624), (43, 163663),

Gene: Bloom_249 Start: 157954, Stop: 158643, Start Num: 12
Candidate Starts for Bloom_249:
(Start: 12 @157954 has 3 MA's), (19, 158056), (22, 158113), (26, 158197), (27, 158200), (40, 158410),

Gene: BooTeria_242 Start: 161664, Stop: 162314, Start Num: 13
Candidate Starts for BooTeria_242:
(Start: 13 @161664 has 5 MA's), (Start: 16 @161682 has 1 MA's), (31, 161973), (39, 162069), (42, 162123), (43, 162162),

Gene: BooTeria_243 Start: 162323, Stop: 163186, Start Num: 4
Candidate Starts for BooTeria_243:
(1, 162197), (Start: 4 @162323 has 5 MA's), (5, 162407), (6, 162410), (21, 162674), (32, 162845),

Gene: DunneganBoMo_244 Start: 161249, Stop: 161899, Start Num: 13
Candidate Starts for DunneganBoMo_244:
(Start: 13 @161249 has 5 MA's), (Start: 16 @161267 has 1 MA's), (25, 161456), (31, 161558), (39, 161654), (42, 161708), (43, 161747),

Gene: DunneganBoMo_245 Start: 161908, Stop: 162771, Start Num: 4
Candidate Starts for DunneganBoMo_245:
(1, 161782), (Start: 4 @161908 has 5 MA's), (5, 161992), (6, 161995), (32, 162430),

Gene: Ellewin_245 Start: 161729, Stop: 162592, Start Num: 4
Candidate Starts for Ellewin_245:
(1, 161603), (Start: 4 @161729 has 5 MA's), (10, 161873), (21, 162080), (32, 162251),

Gene: Ellewin_244 Start: 161088, Stop: 161720, Start Num: 16
Candidate Starts for Ellewin_244:
(Start: 13 @161070 has 5 MA's), (Start: 16 @161088 has 1 MA's), (25, 161277), (31, 161379), (39, 161475), (42, 161529), (43, 161568),

Gene: Emmetator_245 Start: 160546, Stop: 161196, Start Num: 13
Candidate Starts for Emmetator_245:
(Start: 13 @160546 has 5 MA's), (Start: 16 @160564 has 1 MA's), (37, 160915), (39, 160951), (42, 161005), (43, 161044),

Gene: Emmetator_246 Start: 161205, Stop: 162068, Start Num: 4
Candidate Starts for Emmetator_246:
(Start: 4 @161205 has 5 MA's), (5, 161289), (6, 161292), (21, 161556), (32, 161727),

Gene: KSunshine22_252 Start: 161829, Stop: 162689, Start Num: 4
Candidate Starts for KSunshine22_252:
(1, 161703), (Start: 4 @161829 has 5 MA's), (5, 161913), (6, 161916), (20, 162159), (28, 162282), (32, 162348), (34, 162357),

Gene: KSunshine22_251 Start: 161170, Stop: 161820, Start Num: 13
Candidate Starts for KSunshine22_251:
(Start: 13 @161170 has 5 MA's), (Start: 16 @161188 has 1 MA's), (39, 161575), (42, 161629), (43, 161668),

Gene: Laure_289 Start: 157179, Stop: 158108, Start Num: 2
Candidate Starts for Laure_289:
(2, 157179), (Start: 4 @157206 has 5 MA's), (7, 157296), (8, 157299), (9, 157329), (15, 157422), (17, 157467), (18, 157491), (23, 157614), (24, 157641), (29, 157695), (30, 157728), (33, 157767), (38, 157836), (44, 157980), (45, 157983), (46, 158046),

Gene: Mimi_245 Start: 157329, Stop: 158018, Start Num: 12
Candidate Starts for Mimi_245:
(Start: 12 @157329 has 3 MA's), (19, 157431), (22, 157488), (26, 157572), (27, 157575), (40, 157785),

Gene: Panchaali_242 Start: 160800, Stop: 161456, Start Num: 13
Candidate Starts for Panchaali_242:
(11, 160737), (Start: 13 @160800 has 5 MA's), (19, 160899), (24, 161013), (39, 161217), (42, 161265), (43, 161304), (45, 161346),

Gene: Phrampa_237 Start: 158671, Stop: 159309, Start Num: 14
Candidate Starts for Phrampa_237:
(Start: 14 @158671 has 1 MA's), (33, 158974), (34, 158980), (41, 159103), (47, 159304),

Gene: Racecar_247 Start: 157708, Stop: 158397, Start Num: 12
Candidate Starts for Racecar_247:
(Start: 12 @157708 has 3 MA's), (19, 157810), (22, 157867), (26, 157951), (27, 157954), (40, 158164),

Gene: Stewart25555_246 Start: 159871, Stop: 160743, Start Num: 3
Candidate Starts for Stewart25555_246:
(3, 159871), (32, 160402), (35, 160420), (36, 160444),

Gene: Talia1610_247 Start: 157983, Stop: 158684, Start Num: 12
Candidate Starts for Talia1610_247:
(Start: 12 @157983 has 3 MA's), (19, 158085), (26, 158226), (27, 158229), (40, 158439),

Gene: WaddleDee_243 Start: 161441, Stop: 162304, Start Num: 4
Candidate Starts for WaddleDee_243:

(1, 161315), (Start: 4 @161441 has 5 MA's), (5, 161525), (6, 161528), (32, 161963),

Gene: WaddleDee_242 Start: 160782, Stop: 161432, Start Num: 13
Candidate Starts for WaddleDee_242:
(Start: 13 @160782 has 5 MA's), (Start: 16 @160800 has 1 MA's), (25, 160989), (31, 161091), (39, 161187), (42, 161241), (43, 161280),