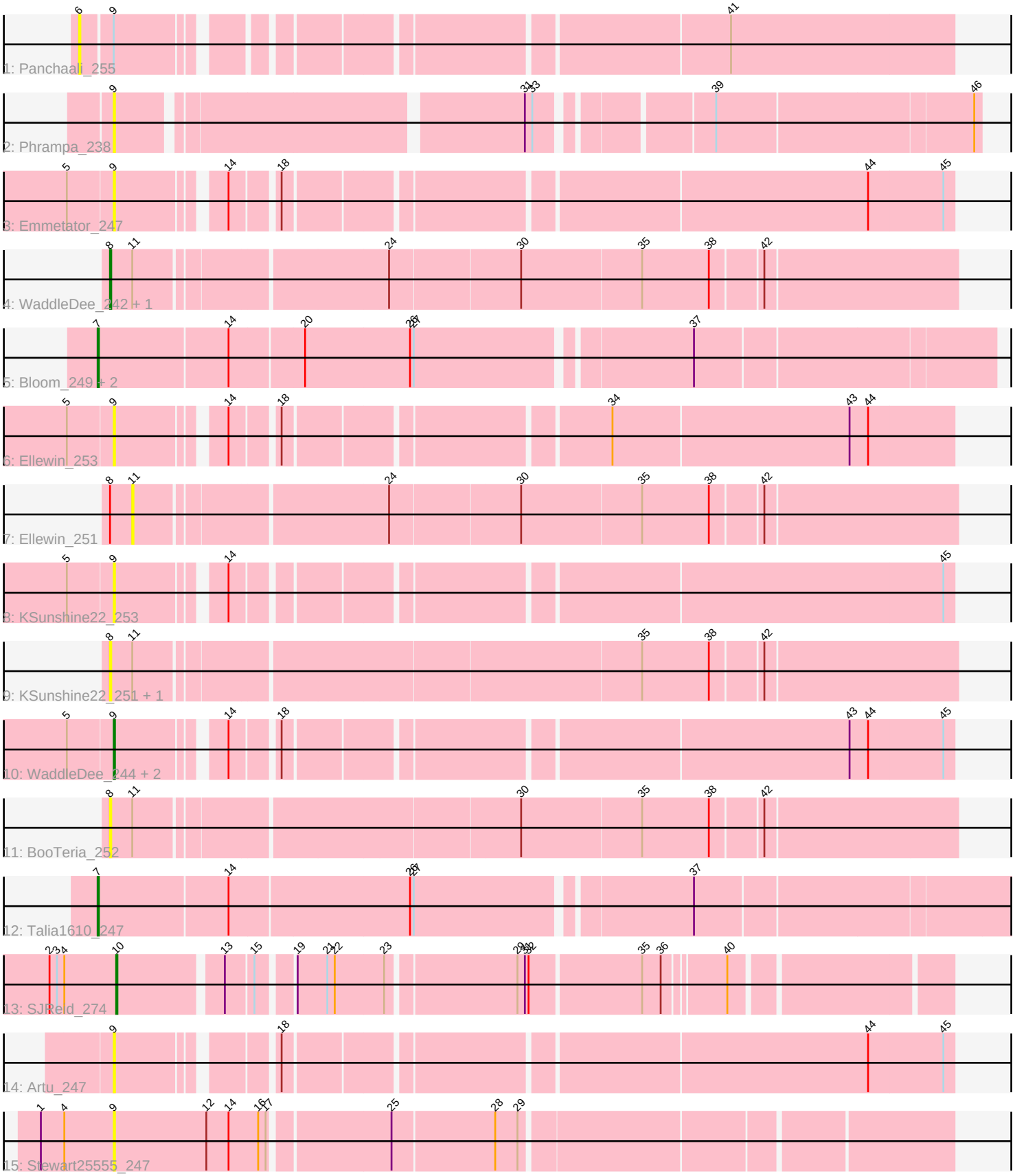
Pham 280871


1: Panchaali_255
2: Phrampa_238
3: Emmetator_247
4: WaddleDee_242 + 1
5: Bloom_249 + 2
6: Ellewin_253
7: Ellewin_251
8: KSunshine22_253
9: KSunshine22_251 + 1
10: WaddleDee_244 + 2
11: BooTeria_252
12: Talia1610_247
13: SJReid_274
14: Artu_247
15: Stewart25555_247

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 280871 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280871 has 21 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Panchaali_255
• Track 2 : Phrampa_238
• Track 3 : Emmetator_247
• Track 4 : WaddleDee_242, DunneganBoMo_244
• Track 5 : Bloom_249, Mimi_245, Racecar_247
• Track 6 : Ellewin_253
• Track 7 : Ellewin_251
• Track 8 : KSunshine22_253
• Track 9 : KSunshine22_251, Artu_245
• Track 10 : WaddleDee_244, BooTeria_254, DunneganBoMo_246
• Track 11 : BooTeria_252
• Track 12 : Talia1610_247
• Track 13 : SJReid_274
• Track 14 : Artu_247
• Track 15 : Stewart25555_247

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

The start number called the most often in the published annotations is 7, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_249, Mimi_245, Racecar_247, Talia1610_247,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Artu_245, Artu_247, BooTeria_252, BooTeria_254, DunneganBoMo_244, DunneganBoMo_246, Ellewin_251, Ellewin_253, Emmetator_247, KSunshine22_251, KSunshine22_253, Panchaali_255, Phrampa_238, SJReid_274, Stewart25555_247, WaddleDee_242, WaddleDee_244,

Summary by start number:

Start 6:
• Found in 1 of 21 (4.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchaali_255 (FC),

Start 7:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 3 of 8
• 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 8:
• Found in 6 of 21 (28.6%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Artu_245 (FC), BooTeria_252 (FC), DunneganBoMo_244 (FC), KSunshine22_251 (FC), WaddleDee_242 (FC),

Start 9:
• Found in 10 of 21 (47.6%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Artu_247 (FC), BooTeria_254 (FC), DunneganBoMo_246 (FC), Ellewin_253 (FC), Emmetator_247 (FC), KSunshine22_253 (FC), Phrampa_238 (FC), Stewart25555_247 (FC), WaddleDee_244 (FC),

Start 10:
• Found in 1 of 21 (4.8%) 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: SJReid_274 (FC),

Start 11:
• Found in 6 of 21 (28.6%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Ellewin_251 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 7 was manually annotated 3 times for cluster FC.
•Start number 8 was manually annotated 2 times for cluster FC.
•Start number 9 was manually annotated 2 times for cluster FC.
•Start number 10 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Artu_245 Start: 163165, Stop: 163815, Start Num: 8
Candidate Starts for Artu_245:
(Start: 8 @163165 has 2 MA's), (11, 163183), (35, 163570), (38, 163624), (42, 163663),

Gene: Artu_247 Start: 164757, Stop: 165377, Start Num: 9
Candidate Starts for Artu_247:
(Start: 9 @164757 has 2 MA's), (18, 164865), (44, 165309), (45, 165369),

Gene: Bloom_249 Start: 157954, Stop: 158643, Start Num: 7
Candidate Starts for Bloom_249:
(Start: 7 @157954 has 3 MA's), (14, 158056), (20, 158113), (26, 158197), (27, 158200), (37, 158410),

Gene: BooTeria_252 Start: 161664, Stop: 162314, Start Num: 8
Candidate Starts for BooTeria_252:
(Start: 8 @161664 has 2 MA's), (11, 161682), (30, 161973), (35, 162069), (38, 162123), (42, 162162),

Gene: BooTeria_254 Start: 163257, Stop: 163877, Start Num: 9
Candidate Starts for BooTeria_254:
(5, 163221), (Start: 9 @163257 has 2 MA's), (14, 163332), (18, 163365), (43, 163794), (44, 163809), (45, 163869),

Gene: DunneganBoMo_244 Start: 161249, Stop: 161899, Start Num: 8
Candidate Starts for DunneganBoMo_244:
(Start: 8 @161249 has 2 MA's), (11, 161267), (24, 161456), (30, 161558), (35, 161654), (38, 161708), (42, 161747),

Gene: DunneganBoMo_246 Start: 162842, Stop: 163462, Start Num: 9
Candidate Starts for DunneganBoMo_246:
(5, 162806), (Start: 9 @162842 has 2 MA's), (14, 162917), (18, 162950), (43, 163379), (44, 163394), (45, 163454),

Gene: Ellewin_253 Start: 162663, Stop: 163283, Start Num: 9
Candidate Starts for Ellewin_253:
(5, 162627), (Start: 9 @162663 has 2 MA's), (14, 162738), (18, 162771), (34, 163011), (43, 163200), (44, 163215),

Gene: Ellewin_251 Start: 161088, Stop: 161720, Start Num: 11
Candidate Starts for Ellewin_251:
(Start: 8 @161070 has 2 MA's), (11, 161088), (24, 161277), (30, 161379), (35, 161475), (38, 161529), (42, 161568),

Gene: Emmetator_247 Start: 162139, Stop: 162759, Start Num: 9
Candidate Starts for Emmetator_247:
(5, 162103), (Start: 9 @162139 has 2 MA's), (14, 162214), (18, 162247), (44, 162691), (45, 162751),

Gene: KSunshine22_253 Start: 162760, Stop: 163380, Start Num: 9
Candidate Starts for KSunshine22_253:
(5, 162724), (Start: 9 @162760 has 2 MA's), (14, 162835), (45, 163372),

Gene: KSunshine22_251 Start: 161170, Stop: 161820, Start Num: 8
Candidate Starts for KSunshine22_251:

(Start: 8 @161170 has 2 MA's), (11, 161188), (35, 161575), (38, 161629), (42, 161668),

Gene: Mimi_245 Start: 157329, Stop: 158018, Start Num: 7
Candidate Starts for Mimi_245:
(Start: 7 @157329 has 3 MA's), (14, 157431), (20, 157488), (26, 157572), (27, 157575), (37, 157785),

Gene: Panchaali_255 Start: 161441, Stop: 162082, Start Num: 6
Candidate Starts for Panchaali_255:
(6, 161441), (Start: 9 @161465 has 2 MA's), (41, 161903),

Gene: Phrampa_238 Start: 158671, Stop: 159309, Start Num: 9
Candidate Starts for Phrampa_238:
(Start: 9 @158671 has 2 MA's), (31, 158974), (33, 158980), (39, 159103), (46, 159304),

Gene: Racecar_247 Start: 157708, Stop: 158397, Start Num: 7
Candidate Starts for Racecar_247:
(Start: 7 @157708 has 3 MA's), (14, 157810), (20, 157867), (26, 157951), (27, 157954), (37, 158164),

Gene: SJReid_274 Start: 159658, Stop: 160269, Start Num: 10
Candidate Starts for SJReid_274:
(2, 159604), (3, 159610), (4, 159616), (Start: 10 @159658 has 1 MA's), (13, 159736), (15, 159757), (19, 159781), (21, 159805), (22, 159811), (23, 159850), (29, 159949), (31, 159955), (32, 159958), (35, 160045), (36, 160060), (40, 160105),

Gene: Stewart25555_247 Start: 160819, Stop: 161460, Start Num: 9
Candidate Starts for Stewart25555_247:
(1, 160762), (4, 160780), (Start: 9 @160819 has 2 MA's), (12, 160894), (14, 160912), (16, 160936), (17, 160942), (25, 161032), (28, 161113), (29, 161131),

Gene: Talia1610_247 Start: 157983, Stop: 158684, Start Num: 7
Candidate Starts for Talia1610_247:
(Start: 7 @157983 has 3 MA's), (14, 158085), (26, 158226), (27, 158229), (37, 158439),

Gene: WaddleDee_242 Start: 160782, Stop: 161432, Start Num: 8
Candidate Starts for WaddleDee_242:
(Start: 8 @160782 has 2 MA's), (11, 160800), (24, 160989), (30, 161091), (35, 161187), (38, 161241), (42, 161280),

Gene: WaddleDee_244 Start: 162375, Stop: 162995, Start Num: 9
Candidate Starts for WaddleDee_244:
(5, 162339), (Start: 9 @162375 has 2 MA's), (14, 162450), (18, 162483), (43, 162912), (44, 162927), (45, 162987),