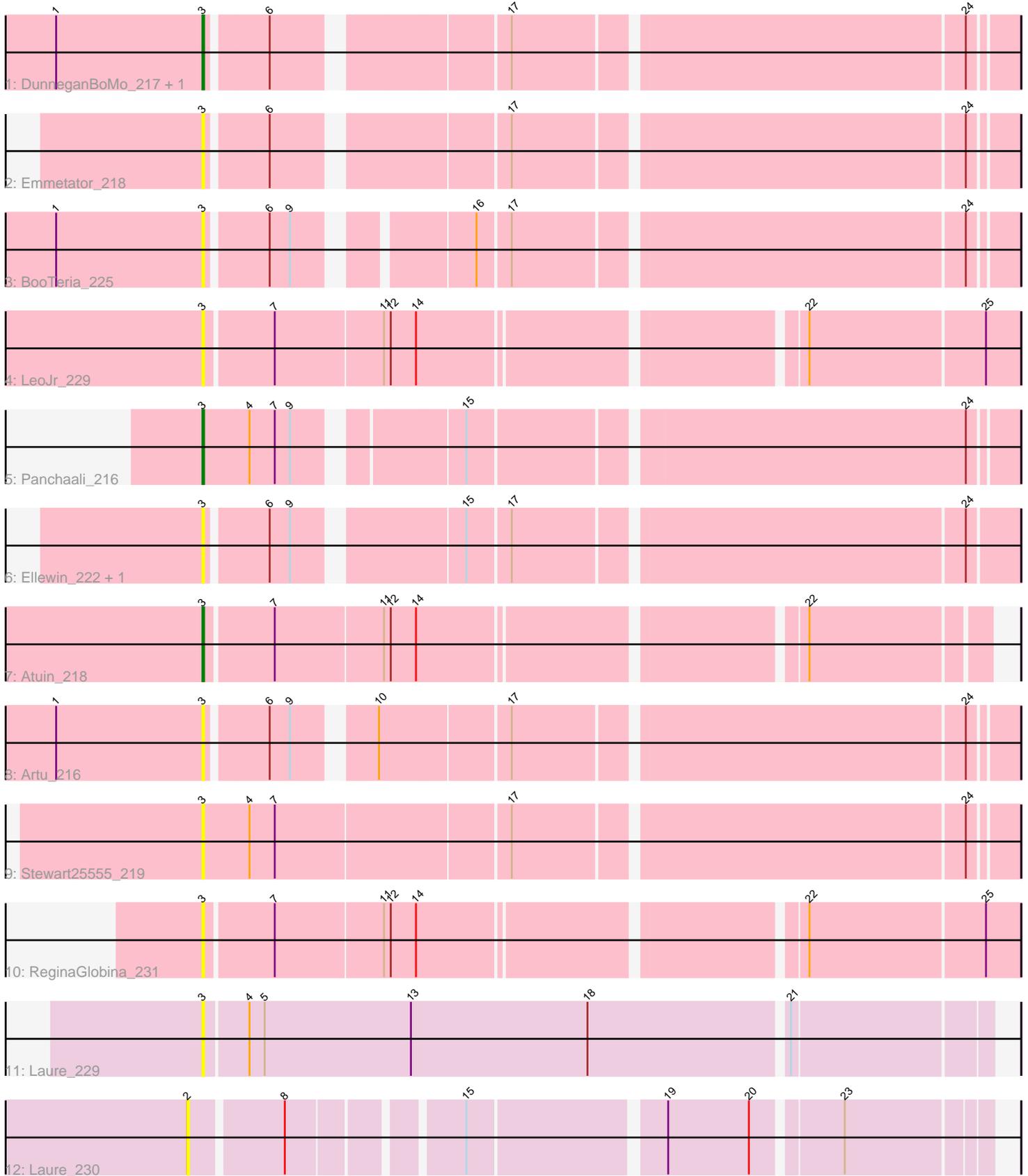# Pham 289874

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 289874 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289874 has 14 members, 10 are drafts.

Phages represented in each track:
• Track 1 : DunneganBoMo_217, WaddleDee_212
• Track 2 : Emmetator_218
• Track 3 : BooTeria_225
• Track 4 : LeoJr_229
• Track 5 : Panchaali_216
• Track 6 : Ellewin_222, KSunshine22_221
• Track 7 : Atuin_218
• Track 8 : Artu_216
• Track 9 : Stewart25555_219
• Track 10 : ReginaGlobina_231
• Track 11 : Laure_229
• Track 12 : Laure_230

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 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_216, Atuin_218, BooTeria_225, DunneganBoMo_217, Ellewin_222, Emmetator_218, KSunshine22_221, Laure_229, LeoJr_229, Panchaali_216, ReginaGlobina_231, Stewart25555_219, WaddleDee_212,

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

Genes that do not have the "Most Annotated" start:
• Laure_230,

Summary by start number:

Start 2:
• Found in 1 of 14 (7.1%) 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_230 (UNK),

Start 3:
• Found in 13 of 14 (92.9%) of genes in pham
• Manual Annotations of this start: 4 of 4
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_216 (FC), Atuin_218 (FC), BooTeria_225 (FC), DunneganBoMo_217 (FC), Ellewin_222 (FC), Emmetator_218 (FC), KSunshine22_221 (FC), Laure_229 (UNK), LeoJr_229 (FC), Panchaali_216 (FC), ReginaGlobina_231 (FC), Stewart25555_219 (FC), WaddleDee_212 (FC),

Summary by clusters:

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

Info for manual annotations of cluster FC:
•Start number 3 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: Artu_216 Start: 153132, Stop: 153569, Start Num: 3
Candidate Starts for Artu_216:
(1, 153045), (Start: 3 @153132 has 4 MA's), (6, 153165), (9, 153177), (10, 153216), (17, 153288), (24, 153543),

Gene: Atuin_218 Start: 149230, Stop: 149661, Start Num: 3
Candidate Starts for Atuin_218:
(Start: 3 @149230 has 4 MA's), (7, 149269), (11, 149332), (12, 149335), (14, 149350), (22, 149560),

Gene: BooTeria_225 Start: 152872, Stop: 153303, Start Num: 3
Candidate Starts for BooTeria_225:
(1, 152785), (Start: 3 @152872 has 4 MA's), (6, 152905), (9, 152917), (16, 153004), (17, 153022), (24, 153277),

Gene: DunneganBoMo_217 Start: 152336, Stop: 152773, Start Num: 3
Candidate Starts for DunneganBoMo_217:
(1, 152249), (Start: 3 @152336 has 4 MA's), (6, 152369), (17, 152492), (24, 152747),

Gene: Ellewin_222 Start: 151609, Stop: 152049, Start Num: 3
Candidate Starts for Ellewin_222:
(Start: 3 @151609 has 4 MA's), (6, 151642), (9, 151654), (15, 151741), (17, 151765), (24, 152020),

Gene: Emmetator_218 Start: 151502, Stop: 151939, Start Num: 3
Candidate Starts for Emmetator_218:
(Start: 3 @151502 has 4 MA's), (6, 151535), (17, 151658), (24, 151913),

Gene: KSunshine22_221 Start: 151021, Stop: 151458, Start Num: 3
Candidate Starts for KSunshine22_221:
(Start: 3 @151021 has 4 MA's), (6, 151054), (9, 151066), (15, 151153), (17, 151177), (24, 151432),

Gene: Laure_229 Start: 138416, Stop: 138868, Start Num: 3
Candidate Starts for Laure_229:
(Start: 3 @138416 has 4 MA's), (4, 138440), (5, 138449), (13, 138536), (18, 138641), (21, 138755),

Gene: Laure_230 Start: 138869, Stop: 139294, Start Num: 2
Candidate Starts for Laure_230:
(2, 138869), (8, 138920), (15, 139010), (19, 139118), (20, 139166), (23, 139214),

Gene: LeoJr_229 Start: 149678, Stop: 150130, Start Num: 3
Candidate Starts for LeoJr_229:
(Start: 3 @149678 has 4 MA's), (7, 149717), (11, 149780), (12, 149783), (14, 149798), (22, 150008), (25, 150110),

Gene: Panchaali_216 Start: 152800, Stop: 153243, Start Num: 3
Candidate Starts for Panchaali_216:
(Start: 3 @152800 has 4 MA's), (4, 152827), (7, 152842), (9, 152851), (15, 152935), (24, 153217),

Gene: ReginaGlobina_231 Start: 150964, Stop: 151416, Start Num: 3
Candidate Starts for ReginaGlobina_231:
(Start: 3 @150964 has 4 MA's), (7, 151003), (11, 151066), (12, 151069), (14, 151084), (22, 151294), (25, 151396),

Gene: Stewart25555_219 Start: 150496, Stop: 150951, Start Num: 3
Candidate Starts for Stewart25555_219:
(Start: 3 @150496 has 4 MA's), (4, 150523), (7, 150538), (17, 150670), (24, 150925),

Gene: WaddleDee_212 Start: 150797, Stop: 151234, Start Num: 3
Candidate Starts for WaddleDee_212:
(1, 150710), (Start: 3 @150797 has 4 MA's), (6, 150830), (17, 150953), (24, 151208),