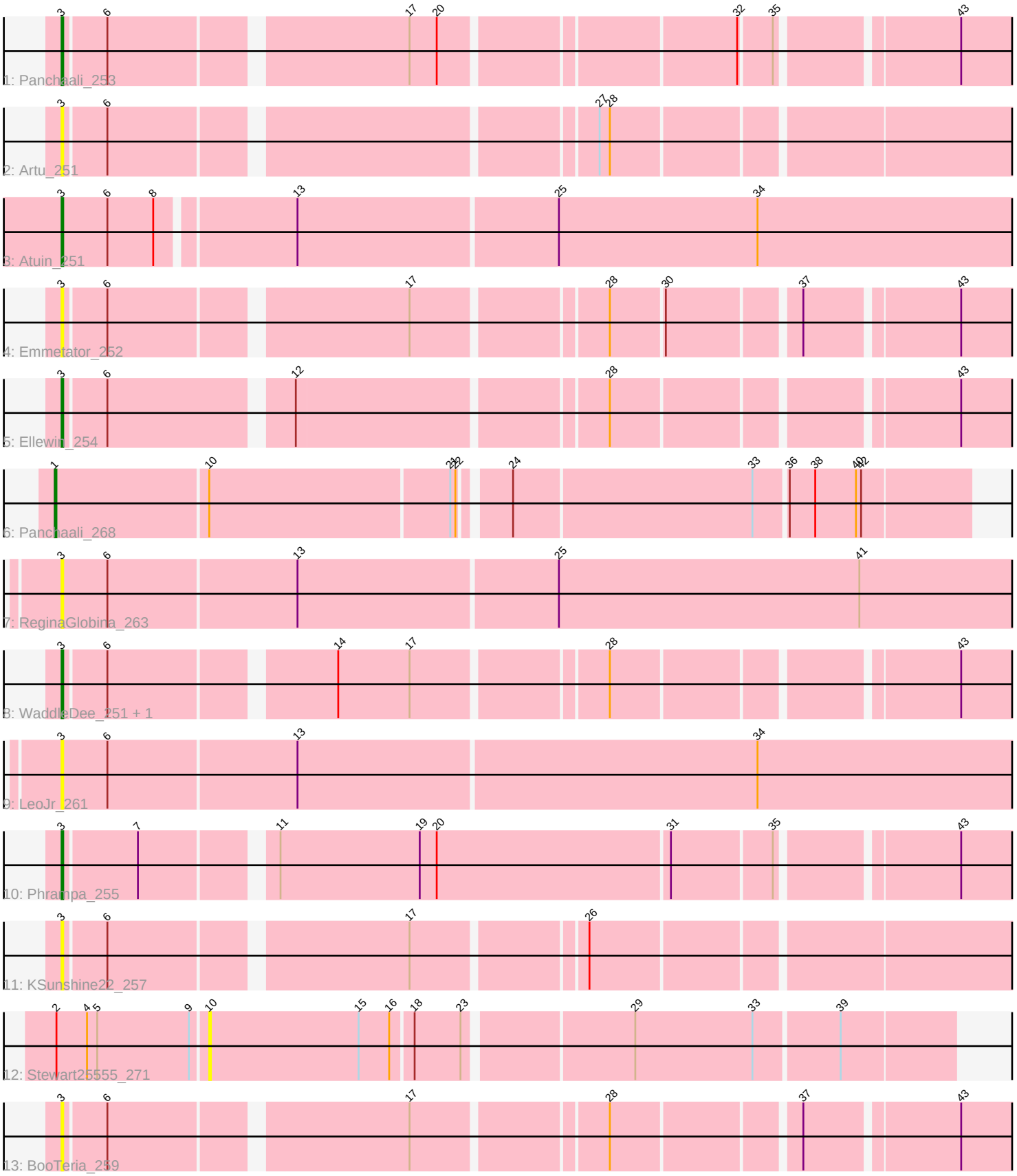
Pham 295209


1: Panchaali_253
2: Artu_251
3: Atuin_251
4: Emmetator_252
5: Ellewin_254
6: Panchaali_268
7: ReginaGlobina_263
8: WaddleDee_251 + 1
9: LeoJr_261
10: Phrampa_255
11: KSunshine22_257
12: Stewart25555_271
13: BooTeria_259

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 295209 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295209 has 14 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Panchaali_253
• Track 2 : Artu_251
• Track 3 : Atuin_251
• Track 4 : Emmetator_252
• Track 5 : Ellewin_254
• Track 6 : Panchaali_268
• Track 7 : ReginaGlobina_263
• Track 8 : WaddleDee_251, DunneganBoMo_253
• Track 9 : LeoJr_261
• Track 10 : Phrampa_255
• Track 11 : KSunshine22_257
• Track 12 : Stewart25555_271
• Track 13 : BooTeria_259

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 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_251, Atuin_251, BooTeria_259, DunneganBoMo_253, Ellewin_254, Emmetator_252, KSunshine22_257, LeoJr_261, Panchaali_253, Phrampa_255, ReginaGlobina_263, WaddleDee_251,

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

Genes that do not have the "Most Annotated" start:
• Panchaali_268, Stewart25555_271,

Summary by start number:

Start 1:
• Found in 1 of 14 (7.1%) of genes in pham

• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchaali_268 (FC),

Start 3:
• Found in 12 of 14 (85.7%) of genes in pham
• Manual Annotations of this start: 6 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_251 (FC), Atuin_251 (FC), BooTeria_259 (FC), DunneganBoMo_253 (FC), Ellewin_254 (FC), Emmetator_252 (FC), KSunshine22_257 (FC), LeoJr_261 (FC), Panchaali_253 (FC), Phrampa_255 (FC), ReginaGlobina_263 (FC), WaddleDee_251 (FC),

Start 10:
• Found in 2 of 14 (14.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Stewart25555_271 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 1 was manually annotated 1 time for cluster FC.
•Start number 3 was manually annotated 6 times for cluster FC.

Gene Information:

Gene: Artu_251 Start: 166105, Stop: 166638, Start Num: 3
Candidate Starts for Artu_251:
(Start: 3 @166105 has 6 MA's), (6, 166129), (27, 166390), (28, 166396),

Gene: Atuin_251 Start: 160201, Stop: 160764, Start Num: 3
Candidate Starts for Atuin_251:
(Start: 3 @160201 has 6 MA's), (6, 160228), (8, 160255), (13, 160330), (25, 160480), (34, 160597),

Gene: BooTeria_259 Start: 164825, Stop: 165352, Start Num: 3
Candidate Starts for BooTeria_259:
(Start: 3 @164825 has 6 MA's), (6, 164849), (17, 165011), (28, 165116), (37, 165218), (43, 165302),

Gene: DunneganBoMo_253 Start: 164781, Stop: 165308, Start Num: 3
Candidate Starts for DunneganBoMo_253:
(Start: 3 @164781 has 6 MA's), (6, 164805), (14, 164925), (17, 164967), (28, 165072), (43, 165258),

Gene: Ellewin_254 Start: 165533, Stop: 166063, Start Num: 3
Candidate Starts for Ellewin_254:
(Start: 3 @165533 has 6 MA's), (6, 165557), (12, 165656), (28, 165827), (43, 166013),

Gene: Emmetator_252 Start: 163707, Stop: 164234, Start Num: 3
Candidate Starts for Emmetator_252:

(Start: 3 @163707 has 6 MA's), (6, 163731), (17, 163893), (28, 163998), (30, 164028), (37, 164100), (43, 164184),

Gene: KSunshine22_257 Start: 164108, Stop: 164641, Start Num: 3
Candidate Starts for KSunshine22_257:
(Start: 3 @164108 has 6 MA's), (6, 164132), (17, 164294), (26, 164387),

Gene: LeoJr_261 Start: 159582, Stop: 160151, Start Num: 3
Candidate Starts for LeoJr_261:
(Start: 3 @159582 has 6 MA's), (6, 159609), (13, 159717), (34, 159984),

Gene: Panchaali_253 Start: 165838, Stop: 166365, Start Num: 3
Candidate Starts for Panchaali_253:
(Start: 3 @165838 has 6 MA's), (6, 165862), (17, 166024), (20, 166039), (32, 166201), (35, 166219), (43, 166315),

Gene: Panchaali_268 Start: 170896, Stop: 171408, Start Num: 1
Candidate Starts for Panchaali_268:
(Start: 1 @170896 has 1 MA's), (10, 170983), (21, 171121), (22, 171124), (24, 171148), (33, 171286), (36, 171304), (38, 171319), (40, 171343), (42, 171346),

Gene: Phrampa_255 Start: 165233, Stop: 165772, Start Num: 3
Candidate Starts for Phrampa_255:
(Start: 3 @165233 has 6 MA's), (7, 165275), (11, 165344), (19, 165425), (20, 165434), (31, 165569), (35, 165626), (43, 165722),

Gene: ReginaGlobina_263 Start: 160788, Stop: 161357, Start Num: 3
Candidate Starts for ReginaGlobina_263:
(Start: 3 @160788 has 6 MA's), (6, 160815), (13, 160923), (25, 161073), (41, 161250),

Gene: Stewart25555_271 Start: 170304, Stop: 170723, Start Num: 10
Candidate Starts for Stewart25555_271:
(2, 170217), (4, 170235), (5, 170241), (9, 170295), (10, 170304), (15, 170391), (16, 170409), (18, 170421), (23, 170448), (29, 170541), (33, 170610), (39, 170658),

Gene: WaddleDee_251 Start: 164314, Stop: 164841, Start Num: 3
Candidate Starts for WaddleDee_251:
(Start: 3 @164314 has 6 MA's), (6, 164338), (14, 164458), (17, 164500), (28, 164605), (43, 164791),