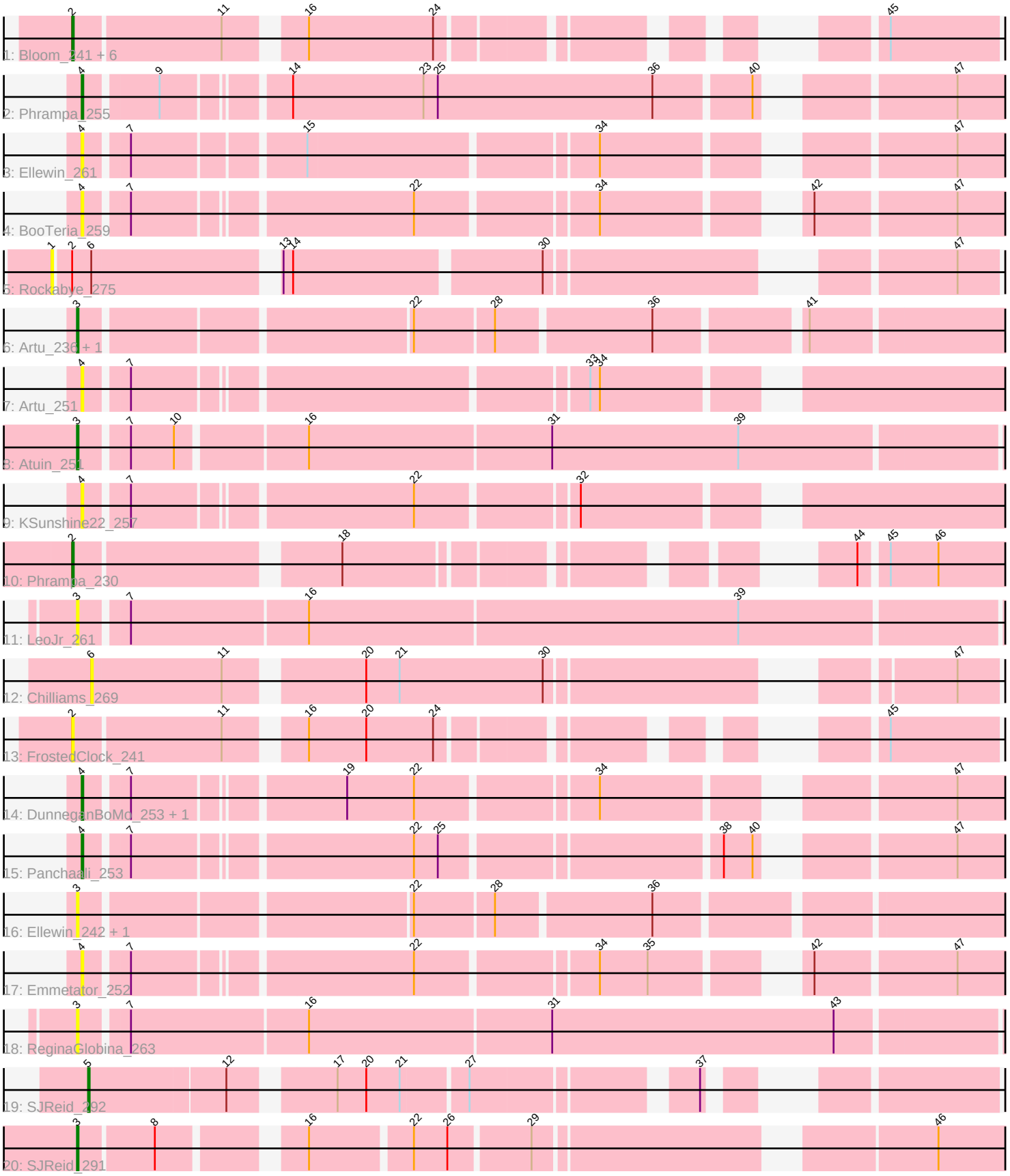
Pham 291420


1: Bloom_241 + 6
2: Phrampa_255
3: Ellewin_261
4: BooTeria_259
5: Rockabye_275
6: Artu_236 + 1
7: Artu_251
8: Atuin_251
9: KSunshine22_257
10: Phrampa_230
11: LeoJr_261
12: Chilliams_269
13: FrostedClock_241
14: DunneganBoMd_253 + 1
15: Panchaali_253
16: Ellewin_242 + 1
17: Emmetator_252
18: ReginaGlobina_263
19: SJReid_292
20: SJReid_291

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 291420 Report

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

Pham number 291420 has 29 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Bloom_241, Racecar_239, Mimi_237, Talia1610_239, FloraSnap32_234, Patbob_235, GoldenEssence_226
• Track 2 : Phrampa_255
• Track 3 : Ellewin_261
• Track 4 : BooTeria_259
• Track 5 : Rockabye_275
• Track 6 : Artu_236, WaddleDee_234
• Track 7 : Artu_251
• Track 8 : Atuin_251
• Track 9 : KSunshine22_257
• Track 10 : Phrampa_230
• Track 11 : LeoJr_261
• Track 12 : Chilliams_269
• Track 13 : FrostedClock_241
• Track 14 : DunneganBoMo_253, WaddleDee_251
• Track 15 : Panchaali_253
• Track 16 : Ellewin_242, KSunshine22_242
• Track 17 : Emmetator_252
• Track 18 : ReginaGlobina_263
• Track 19 : SJReid_292
• Track 20 : SJReid_291

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

The start number called the most often in the published annotations is 2, it was called in 6 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_241, FloraSnap32_234, FrostedClock_241, GoldenEssence_226, Mimi_237, Patbob_235, Phrampa_230, Racecar_239, Talia1610_239,

Genes that have the "Most Annotated" start but do not call it:
• Rockabye_275,

Genes that do not have the "Most Annotated" start:
• Artu_236, Artu_251, Atuin_251, BooTeria_259, Chilliams_269, DunneganBoMo_253, Ellewin_242, Ellewin_261, Emmetator_252, KSunshine22_242, KSunshine22_257, LeoJr_261, Panchaali_253, Phrampa_255, ReginaGlobina_263, SJReid_291, SJReid_292, WaddleDee_234, WaddleDee_251,

Summary by start number:

Start 1:
• Found in 1 of 29 (3.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rockabye_275 (FC),

Start 2:
• Found in 10 of 29 (34.5%) of genes in pham
• Manual Annotations of this start: 6 of 14
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Bloom_241 (FC), FloraSnap32_234 (FC), FrostedClock_241 (FC), GoldenEssence_226 (FC), Mimi_237 (FC), Patbob_235 (FC), Phrampa_230 (FC), Racecar_239 (FC), Talia1610_239 (FC),

Start 3:
• Found in 8 of 29 (27.6%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_236 (FC), Atuin_251 (FC), Ellewin_242 (FC), KSunshine22_242 (FC), LeoJr_261 (FC), ReginaGlobina_263 (FC), SJReid_291 (FC), WaddleDee_234 (FC),

Start 4:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 4 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_251 (FC), BooTeria_259 (FC), DunneganBoMo_253 (FC), Ellewin_261 (FC), Emmetator_252 (FC), KSunshine22_257 (FC), Panchaali_253 (FC), Phrampa_255 (FC), WaddleDee_251 (FC),

Start 5:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_292 (FC),

Start 6:
• Found in 2 of 29 (6.9%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Chilliams_269 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 2 was manually annotated 6 times for cluster FC.
•Start number 3 was manually annotated 3 times for cluster FC.
•Start number 4 was manually annotated 4 times for cluster FC.
•Start number 5 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Artu_236 Start: 160052, Stop: 160594, Start Num: 3
Candidate Starts for Artu_236:
(Start: 3 @160052 has 3 MA's), (22, 160244), (28, 160292), (36, 160385), (41, 160469),

Gene: Artu_251 Start: 166105, Stop: 166638, Start Num: 4
Candidate Starts for Artu_251:
(Start: 4 @166105 has 4 MA's), (7, 166129), (33, 166390), (34, 166396),

Gene: Atuin_251 Start: 160201, Stop: 160764, Start Num: 3
Candidate Starts for Atuin_251:
(Start: 3 @160201 has 3 MA's), (7, 160228), (10, 160255), (16, 160330), (31, 160480), (39, 160597),

Gene: Bloom_241 Start: 155102, Stop: 155584, Start Num: 2
Candidate Starts for Bloom_241:
(Start: 2 @155102 has 6 MA's), (11, 155192), (16, 155231), (24, 155309), (45, 155507),

Gene: BooTeria_259 Start: 164825, Stop: 165352, Start Num: 4
Candidate Starts for BooTeria_259:
(Start: 4 @164825 has 4 MA's), (7, 164849), (22, 165011), (34, 165116), (42, 165218), (47, 165302),

Gene: Chilliams_269 Start: 162893, Stop: 163402, Start Num: 6
Candidate Starts for Chilliams_269:
(6, 162893), (11, 162974), (20, 163049), (21, 163070), (30, 163160), (47, 163367),

Gene: DunneganBoMo_253 Start: 164781, Stop: 165308, Start Num: 4
Candidate Starts for DunneganBoMo_253:
(Start: 4 @164781 has 4 MA's), (7, 164805), (19, 164925), (22, 164967), (34, 165072), (47, 165258),

Gene: Ellewin_261 Start: 165533, Stop: 166063, Start Num: 4
Candidate Starts for Ellewin_261:
(Start: 4 @165533 has 4 MA's), (7, 165557), (15, 165656), (34, 165827), (47, 166013),

Gene: Ellewin_242 Start: 158200, Stop: 158742, Start Num: 3
Candidate Starts for Ellewin_242:
(Start: 3 @158200 has 3 MA's), (22, 158392), (28, 158440), (36, 158533),

Gene: Emmetator_252 Start: 163707, Stop: 164234, Start Num: 4
Candidate Starts for Emmetator_252:
(Start: 4 @163707 has 4 MA's), (7, 163731), (22, 163893), (34, 163998), (35, 164028), (42, 164100), (47, 164184),

Gene: FloraSnap32_234 Start: 153261, Stop: 153743, Start Num: 2
Candidate Starts for FloraSnap32_234:
(Start: 2 @153261 has 6 MA's), (11, 153351), (16, 153390), (24, 153468), (45, 153666),

Gene: FrostedClock_241 Start: 155246, Stop: 155728, Start Num: 2
Candidate Starts for FrostedClock_241:
(Start: 2 @155246 has 6 MA's), (11, 155336), (16, 155375), (20, 155411), (24, 155453), (45, 155651),

Gene: GoldenEssence_226 Start: 149079, Stop: 149561, Start Num: 2
Candidate Starts for GoldenEssence_226:
(Start: 2 @149079 has 6 MA's), (11, 149169), (16, 149208), (24, 149286), (45, 149484),

Gene: KSunshine22_257 Start: 164108, Stop: 164641, Start Num: 4
Candidate Starts for KSunshine22_257:
(Start: 4 @164108 has 4 MA's), (7, 164132), (22, 164294), (32, 164387),

Gene: KSunshine22_242 Start: 158057, Stop: 158599, Start Num: 3
Candidate Starts for KSunshine22_242:
(Start: 3 @158057 has 3 MA's), (22, 158249), (28, 158297), (36, 158390),

Gene: LeoJr_261 Start: 159582, Stop: 160151, Start Num: 3
Candidate Starts for LeoJr_261:
(Start: 3 @159582 has 3 MA's), (7, 159609), (16, 159717), (39, 159984),

Gene: Mimi_237 Start: 154477, Stop: 154959, Start Num: 2
Candidate Starts for Mimi_237:
(Start: 2 @154477 has 6 MA's), (11, 154567), (16, 154606), (24, 154684), (45, 154882),

Gene: Panchaali_253 Start: 165838, Stop: 166365, Start Num: 4
Candidate Starts for Panchaali_253:
(Start: 4 @165838 has 4 MA's), (7, 165862), (22, 166024), (25, 166039), (38, 166201), (40, 166219), (47, 166315),

Gene: Patbob_235 Start: 154874, Stop: 155356, Start Num: 2
Candidate Starts for Patbob_235:
(Start: 2 @154874 has 6 MA's), (11, 154964), (16, 155003), (24, 155081), (45, 155279),

Gene: Phrampa_255 Start: 165233, Stop: 165772, Start Num: 4
Candidate Starts for Phrampa_255:
(Start: 4 @165233 has 4 MA's), (9, 165275), (14, 165344), (23, 165425), (25, 165434), (36, 165569), (40, 165626), (47, 165722),

Gene: Phrampa_230 Start: 155986, Stop: 156474, Start Num: 2
Candidate Starts for Phrampa_230:
(Start: 2 @155986 has 6 MA's), (18, 156136), (44, 156379), (45, 156394), (46, 156424),

Gene: Racecar_239 Start: 154856, Stop: 155338, Start Num: 2
Candidate Starts for Racecar_239:
(Start: 2 @154856 has 6 MA's), (11, 154946), (16, 154985), (24, 155063), (45, 155261),

Gene: ReginaGlobina_263 Start: 160788, Stop: 161357, Start Num: 3
Candidate Starts for ReginaGlobina_263:
(Start: 3 @160788 has 3 MA's), (7, 160815), (16, 160923), (31, 161073), (43, 161250),

Gene: Rockabye_275 Start: 162884, Stop: 163408, Start Num: 1
Candidate Starts for Rockabye_275:
(1, 162884), (Start: 2 @162893 has 6 MA's), (6, 162905), (13, 163010), (14, 163016), (30, 163163), (47, 163373),

Gene: SJReid_292 Start: 165814, Stop: 166293, Start Num: 5
Candidate Starts for SJReid_292:
(Start: 5 @165814 has 1 MA's), (12, 165898), (17, 165952), (20, 165970), (21, 165991), (27, 166030), (37, 166153),

Gene: SJReid_291 Start: 165299, Stop: 165817, Start Num: 3
Candidate Starts for SJReid_291:
(Start: 3 @165299 has 3 MA's), (8, 165344), (16, 165419), (22, 165479), (26, 165500), (29, 165548), (46, 165767),

Gene: Talia1610_239 Start: 154886, Stop: 155368, Start Num: 2
Candidate Starts for Talia1610_239:
(Start: 2 @154886 has 6 MA's), (11, 154976), (16, 155015), (24, 155093), (45, 155291),

Gene: WaddleDee_234 Start: 158186, Stop: 158734, Start Num: 3
Candidate Starts for WaddleDee_234:
(Start: 3 @158186 has 3 MA's), (22, 158384), (28, 158432), (36, 158525), (41, 158609),

Gene: WaddleDee_251 Start: 164314, Stop: 164841, Start Num: 4
Candidate Starts for WaddleDee_251:
(Start: 4 @164314 has 4 MA's), (7, 164338), (19, 164458), (22, 164500), (34, 164605), (47, 164791),