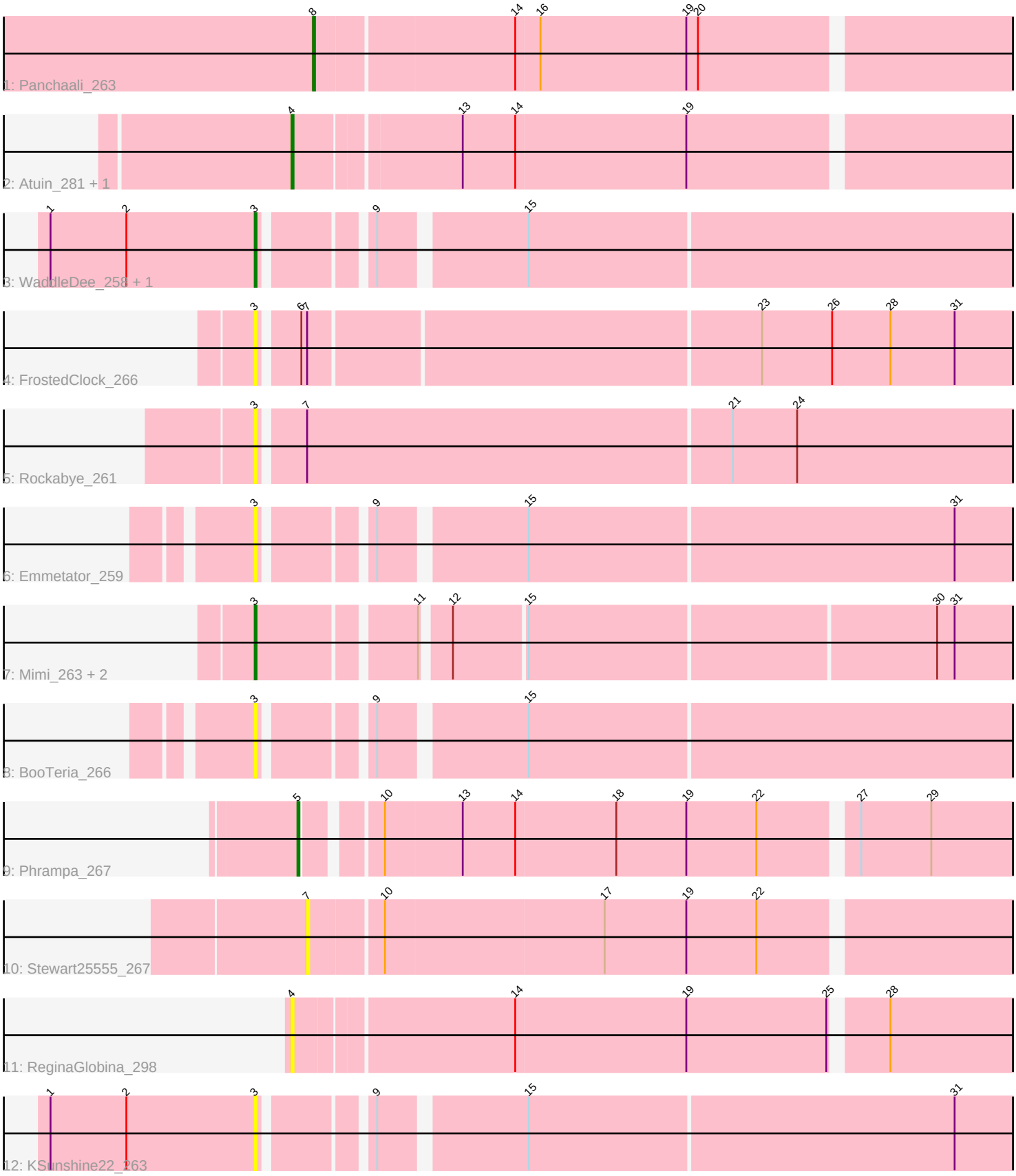
Pham 297053


8 14 16 19 20
1: Panchaali_263
4 13 14 19
2: Atuin_281 + 1
1 2 3 9 15
3: WaddleDee_258 + 1
3 6 7 23 26 28 31
4: FrostedClock_266
3 7 21 24
5: Rockabye_261
3 9 15 31
6: Emmetator_259
3 11 12 15 30 31
7: Mimi_263 + 2
3 9 15
8: BooTeria_266
5 10 13 14 18 19 22 27 29
9: Phrampa_267
7 10 17 19 22
10: Stewart25555_267
4 14 19 25 28
11: ReginaGlobina_298
1 2 3 9 15 31
12: KSunshine22_263

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 297053 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297053 has 16 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Panchaali_263
• Track 2 : Atuin_281, LeoJr_295
• Track 3 : WaddleDee_258, DunneganBoMo_260
• Track 4 : FrostedClock_266
• Track 5 : Rockabye_261
• Track 6 : Emmetator_259
• Track 7 : Mimi_263, Racecar_265, Bloom_267
• Track 8 : BooTeria_266
• Track 9 : Phrampa_267
• Track 10 : Stewart25555_267
• Track 11 : ReginaGlobina_298
• Track 12 : KSunshine22_263

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 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_267, BooTeria_266, DunneganBoMo_260, Emmetator_259, FrostedClock_266, KSunshine22_263, Mimi_263, Racecar_265, Rockabye_261, WaddleDee_258,

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

Genes that do not have the "Most Annotated" start:
• Atuin_281, LeoJr_295, Panchaali_263, Phrampa_267, ReginaGlobina_298, Stewart25555_267,

Summary by start number:

Start 3:
• Found in 10 of 16 (62.5%) of genes in pham

• Manual Annotations of this start: 4 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_267 (FC), BooTeria_266 (FC), DunneganBoMo_260 (FC), Emmetator_259 (FC), FrostedClock_266 (FC), KSunshine22_263 (FC), Mimi_263 (FC), Racecar_265 (FC), Rockabye_261 (FC), WaddleDee_258 (FC),

Start 4:
• Found in 3 of 16 (18.8%) 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: Atuin_281 (FC), LeoJr_295 (FC), ReginaGlobina_298 (FC),

Start 5:
• Found in 1 of 16 (6.2%) 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: Phrampa_267 (FC),

Start 7:
• Found in 3 of 16 (18.8%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Stewart25555_267 (FC),

Start 8:
• Found in 1 of 16 (6.2%) 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_263 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 3 was manually annotated 4 times for cluster FC.
•Start number 4 was manually annotated 1 time for cluster FC.
•Start number 5 was manually annotated 1 time for cluster FC.
•Start number 8 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Atuin_281 Start: 170226, Stop: 170585, Start Num: 4
Candidate Starts for Atuin_281:
(Start: 4 @170226 has 1 MA's), (13, 170307), (14, 170334), (19, 170421),

Gene: Bloom_267 Start: 164638, Stop: 165006, Start Num: 3
Candidate Starts for Bloom_267:
(Start: 3 @164638 has 4 MA's), (11, 164713), (12, 164725), (15, 164761), (30, 164965), (31, 164974),

Gene: BooTeria_266 Start: 167204, Stop: 167569, Start Num: 3
Candidate Starts for BooTeria_266:
(Start: 3 @167204 has 4 MA's), (9, 167252), (15, 167321),

Gene: DunneganBoMo_260 Start: 166957, Stop: 167322, Start Num: 3
Candidate Starts for DunneganBoMo_260:
(1, 166852), (2, 166891), (Start: 3 @166957 has 4 MA's), (9, 167005), (15, 167074),

Gene: Emmetator_259 Start: 166086, Stop: 166451, Start Num: 3
Candidate Starts for Emmetator_259:
(Start: 3 @166086 has 4 MA's), (9, 166134), (15, 166203), (31, 166419),

Gene: FrostedClock_266 Start: 165007, Stop: 165384, Start Num: 3
Candidate Starts for FrostedClock_266:
(Start: 3 @165007 has 4 MA's), (6, 165025), (7, 165028), (23, 165253), (26, 165289), (28, 165319), (31, 165352),

Gene: KSunshine22_263 Start: 166073, Stop: 166438, Start Num: 3
Candidate Starts for KSunshine22_263:
(1, 165968), (2, 166007), (Start: 3 @166073 has 4 MA's), (9, 166121), (15, 166190), (31, 166406),

Gene: LeoJr_295 Start: 170470, Stop: 170829, Start Num: 4
Candidate Starts for LeoJr_295:
(Start: 4 @170470 has 1 MA's), (13, 170551), (14, 170578), (19, 170665),

Gene: Mimi_263 Start: 164013, Stop: 164381, Start Num: 3
Candidate Starts for Mimi_263:
(Start: 3 @164013 has 4 MA's), (11, 164088), (12, 164100), (15, 164136), (30, 164340), (31, 164349),

Gene: Panchaali_263 Start: 169276, Stop: 169626, Start Num: 8
Candidate Starts for Panchaali_263:
(Start: 8 @169276 has 1 MA's), (14, 169375), (16, 169387), (19, 169462), (20, 169468),

Gene: Phrampa_267 Start: 169495, Stop: 169845, Start Num: 5
Candidate Starts for Phrampa_267:
(Start: 5 @169495 has 1 MA's), (10, 169528), (13, 169567), (14, 169594), (18, 169645), (19, 169681), (22, 169717), (27, 169762), (29, 169798),

Gene: Racecar_265 Start: 164392, Stop: 164760, Start Num: 3
Candidate Starts for Racecar_265:
(Start: 3 @164392 has 4 MA's), (11, 164467), (12, 164479), (15, 164515), (30, 164719), (31, 164728),

Gene: ReginaGlobina_298 Start: 171768, Stop: 172127, Start Num: 4
Candidate Starts for ReginaGlobina_298:
(Start: 4 @171768 has 1 MA's), (14, 171876), (19, 171963), (25, 172035), (28, 172059),

Gene: Rockabye_261 Start: 157436, Stop: 157819, Start Num: 3
Candidate Starts for Rockabye_261:
(Start: 3 @157436 has 4 MA's), (7, 157457), (21, 157673), (24, 157706),

Gene: Stewart25555_267 Start: 168993, Stop: 169346, Start Num: 7
Candidate Starts for Stewart25555_267:

(7, 168993), (10, 169029), (17, 169140), (19, 169182), (22, 169218),

Gene: WaddleDee_258 Start: 166490, Stop: 166855, Start Num: 3
Candidate Starts for WaddleDee_258:
(1, 166385), (2, 166424), (Start: 3 @166490 has 4 MA's), (9, 166538), (15, 166607),