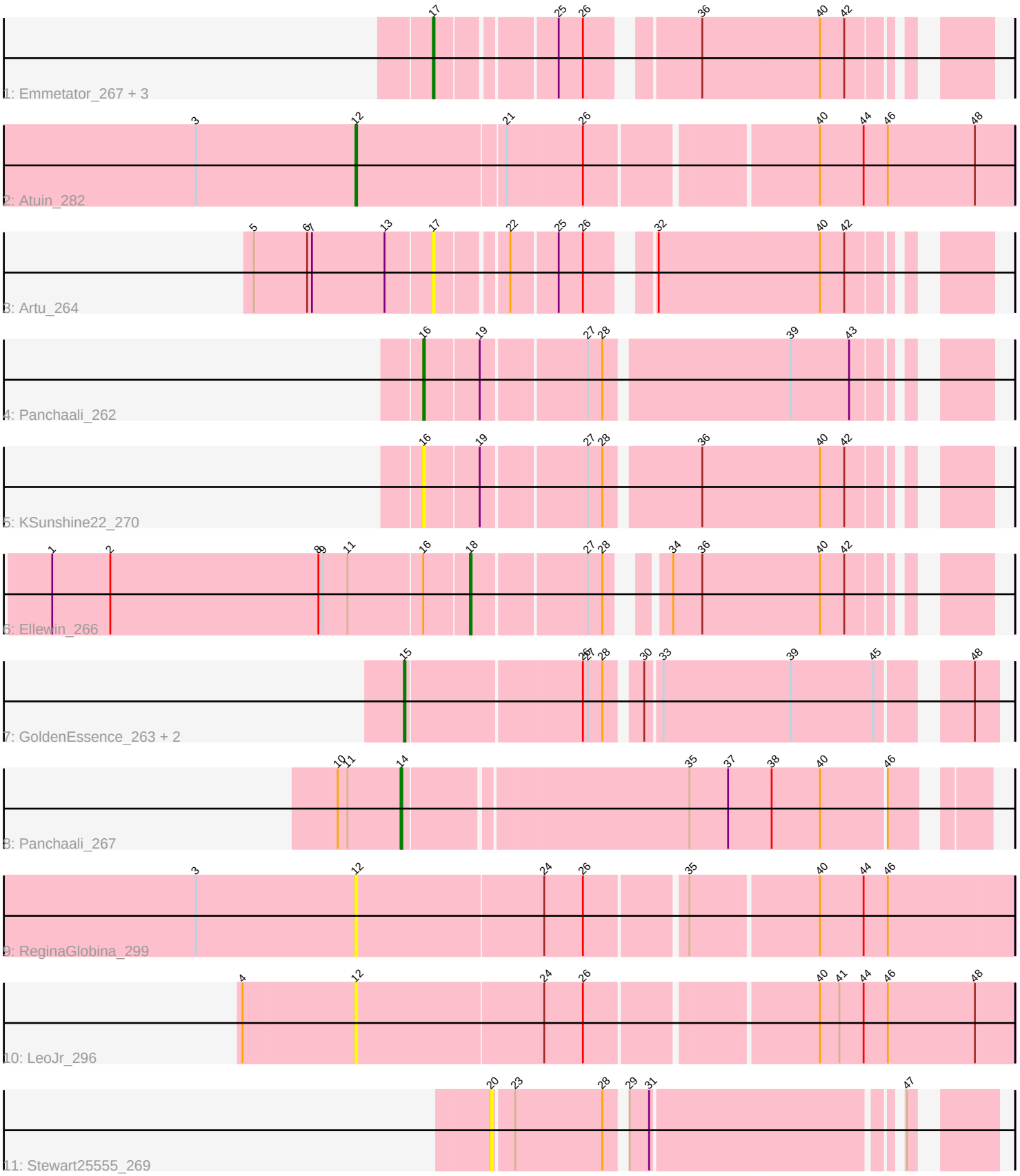
Pham 309461


17
25
26
36
40
42
1: Emmetator_267 + 3
3
12
21
26
40
44
46
48
2: Atuin_282
5
6
7
13
17
22
25
26
32
40
42
3: Artu_264
16
19
27
28
39
43
4: Panchaali_262
16
19
27
28
36
40
42
5: KSunshine22_270
1
2
8
9
11
16
18
27
28
34
36
40
42
6: Ellewin_266
15
26
27
28
30
33
39
45
48
7: GoldenEssence_263 + 2
10
11
14
35
37
38
40
46
8: Panchaali_267
3
12
24
26
35
40
44
46
9: ReginaGlobina_299
4
12
24
26
40
41
44
46
48
10: LeoJr_296
20
23
28
29
31
47
11: Stewart25555_269

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 309461 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309461 has 16 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Emmetator_267, DunneganBoMo_267, WaddleDee_265, BooTeria_263
• Track 2 : Atuin_282
• Track 3 : Artu_264
• Track 4 : Panchaali_262
• Track 5 : KSunshine22_270
• Track 6 : Ellewin_266
• Track 7 : GoldenEssence_263, FloraSnap32_269, Patbob_268
• Track 8 : Panchaali_267
• Track 9 : ReginaGlobina_299
• Track 10 : LeoJr_296
• Track 11 : Stewart25555_269

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

The start number called the most often in the published annotations is 17, it was called in 3 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_264, BooTeria_263, DunneganBoMo_267, Emmetator_267, WaddleDee_265,

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

Genes that do not have the "Most Annotated" start:
• Atuin_282, Ellewin_266, FloraSnap32_269, GoldenEssence_263, KSunshine22_270, LeoJr_296, Panchaali_262, Panchaali_267, Patbob_268, ReginaGlobina_299, Stewart25555_269,

Summary by start number:

Start 12:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Atuin_282 (FC), LeoJr_296 (FC), ReginaGlobina_299 (FC),

Start 14:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchaali_267 (FC),

Start 15:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FloraSnap32_269 (FC), GoldenEssence_263 (FC), Patbob_268 (FC),

Start 16:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 66.7% of time when present
• Phage (with cluster) where this start called: KSunshine22_270 (FC), Panchaali_262 (FC),

Start 17:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 3 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_264 (FC), BooTeria_263 (FC), DunneganBoMo_267 (FC), Emmetator_267 (FC), WaddleDee_265 (FC),

Start 18:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ellewin_266 (FC),

Start 20:
• Found in 1 of 16 (6.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stewart25555_269 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 12 was manually annotated 1 time for cluster FC.
•Start number 14 was manually annotated 1 time for cluster FC.
•Start number 15 was manually annotated 2 times for cluster FC.
•Start number 16 was manually annotated 1 time for cluster FC.
•Start number 17 was manually annotated 3 times for cluster FC.
•Start number 18 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Artu_264 Start: 170284, Stop: 170574, Start Num: 17
Candidate Starts for Artu_264:
(5, 170176), (6, 170209), (7, 170212), (13, 170257), (Start: 17 @170284 has 3 MA's), (22, 170323), (25, 170350), (26, 170365), (32, 170395), (40, 170494), (42, 170509),

Gene: Atuin_282 Start: 170582, Stop: 170968, Start Num: 12
Candidate Starts for Atuin_282:
(3, 170483), (Start: 12 @170582 has 1 MA's), (21, 170672), (26, 170717), (40, 170849), (44, 170876), (46, 170891), (48, 170945),

Gene: BooTeria_263 Start: 169579, Stop: 169869, Start Num: 17
Candidate Starts for BooTeria_263:
(Start: 17 @169579 has 3 MA's), (25, 169645), (26, 169660), (36, 169717), (40, 169789), (42, 169804),

Gene: DunneganBoMo_267 Start: 169332, Stop: 169622, Start Num: 17
Candidate Starts for DunneganBoMo_267:
(Start: 17 @169332 has 3 MA's), (25, 169398), (26, 169413), (36, 169470), (40, 169542), (42, 169557),

Gene: Ellewin_266 Start: 169755, Stop: 170024, Start Num: 18
Candidate Starts for Ellewin_266:
(1, 169500), (2, 169536), (8, 169665), (9, 169668), (11, 169683), (Start: 16 @169728 has 1 MA's), (Start: 18 @169755 has 1 MA's), (27, 169821), (28, 169830), (34, 169854), (36, 169872), (40, 169944), (42, 169959),

Gene: Emmetator_267 Start: 168491, Stop: 168781, Start Num: 17
Candidate Starts for Emmetator_267:
(Start: 17 @168491 has 3 MA's), (25, 168557), (26, 168572), (36, 168629), (40, 168701), (42, 168716),

Gene: FloraSnap32_269 Start: 167452, Stop: 167784, Start Num: 15
Candidate Starts for FloraSnap32_269:
(Start: 15 @167452 has 2 MA's), (26, 167557), (27, 167560), (28, 167569), (30, 167587), (33, 167596), (39, 167674), (45, 167725), (48, 167770),

Gene: GoldenEssence_263 Start: 163355, Stop: 163687, Start Num: 15
Candidate Starts for GoldenEssence_263:
(Start: 15 @163355 has 2 MA's), (26, 163460), (27, 163463), (28, 163472), (30, 163490), (33, 163499), (39, 163577), (45, 163628), (48, 163673),

Gene: KSunshine22_270 Start: 168385, Stop: 168693, Start Num: 16
Candidate Starts for KSunshine22_270:
(Start: 16 @168385 has 1 MA's), (19, 168418), (27, 168478), (28, 168487), (36, 168541), (40, 168613), (42, 168628),

Gene: LeoJr_296 Start: 170826, Stop: 171215, Start Num: 12
Candidate Starts for LeoJr_296:
(4, 170757), (Start: 12 @170826 has 1 MA's), (24, 170940), (26, 170964), (40, 171096), (41, 171108), (44, 171123), (46, 171138), (48, 171192),

Gene: Panchaali_262 Start: 168960, Stop: 169268, Start Num: 16
Candidate Starts for Panchaali_262:
(Start: 16 @168960 has 1 MA's), (19, 168993), (27, 169053), (28, 169062), (39, 169170), (43, 169206),

Gene: Panchaali_267 Start: 170551, Stop: 170886, Start Num: 14
Candidate Starts for Panchaali_267:
(10, 170512), (11, 170518), (Start: 14 @170551 has 1 MA's), (35, 170719), (37, 170743), (38, 170770), (40, 170800), (46, 170839),

Gene: Patbob_268 Start: 168262, Stop: 168594, Start Num: 15
Candidate Starts for Patbob_268:
(Start: 15 @168262 has 2 MA's), (26, 168367), (27, 168370), (28, 168379), (30, 168397), (33, 168406), (39, 168484), (45, 168535), (48, 168580),

Gene: ReginaGlobina_299 Start: 172124, Stop: 172513, Start Num: 12
Candidate Starts for ReginaGlobina_299:
(3, 172025), (Start: 12 @172124 has 1 MA's), (24, 172238), (26, 172262), (35, 172319), (40, 172394), (44, 172421), (46, 172436),

Gene: Stewart25555_269 Start: 169759, Stop: 170028, Start Num: 20
Candidate Starts for Stewart25555_269:
(20, 169759), (23, 169771), (28, 169825), (29, 169834), (31, 169846), (47, 169987),

Gene: WaddleDee_265 Start: 168865, Stop: 169155, Start Num: 17
Candidate Starts for WaddleDee_265:
(Start: 17 @168865 has 3 MA's), (25, 168931), (26, 168946), (36, 169003), (40, 169075), (42, 169090),