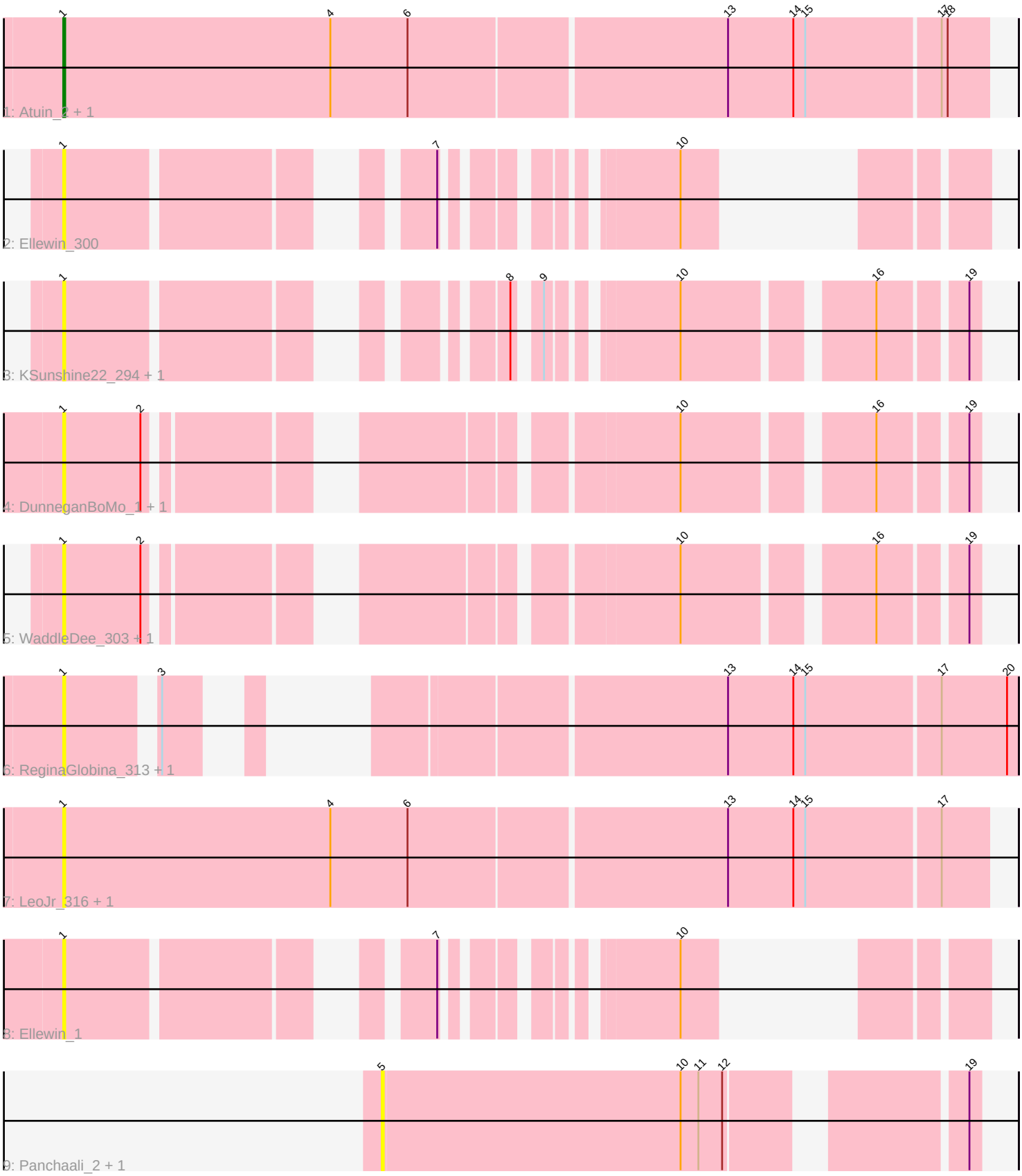
Pham 216642


1
4
6
13
14
15
17
18
1: Atuin_2 + 1
1
7
10
2: Ellewin_300
1
8
9
10
16
19
3: KSunshine22_294 + 1
1
2
10
16
19
4: DunneganBoMo_1 + 1
1
2
10
16
19
5: WaddleDee_303 + 1
1
3
13
14
15
17
20
6: ReginaGlobina_313 + 1
1
4
6
13
14
15
17
7: LeoJr_316 + 1
1
7
10
8: Ellewin_1
5
10
11
12
19
9: Panchaali_2 + 1

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 216642 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216642 has 16 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Atuin_2, Atuin_302
• Track 2 : Ellewin_300
• Track 3 : KSunshine22_294, KSunshine22_2
• Track 4 : DunneganBoMo_1, WaddleDee_1
• Track 5 : WaddleDee_303, DunneganBoMo_304
• Track 6 : ReginaGlobina_313, ReginaGlobina_2
• Track 7 : LeoJr_316, LeoJr_3
• Track 8 : Ellewin_1
• Track 9 : Panchaali_2, Panchaali_301

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

The start number called the most often in the published annotations is 1, it was called in 2 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Atuin_2, Atuin_302, DunneganBoMo_1, DunneganBoMo_304, Ellewin_1, Ellewin_300, KSunshine22_2, KSunshine22_294, LeoJr_3, LeoJr_316, ReginaGlobina_2, ReginaGlobina_313, WaddleDee_1, WaddleDee_303,

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

Genes that do not have the "Most Annotated" start:
• Panchaali_2, Panchaali_301,

Summary by start number:

Start 1:
• Found in 14 of 16 (87.5%) of genes in pham
• Manual Annotations of this start: 2 of 2
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_2 (FC), Atuin_302 (FC), DunneganBoMo_1 (FC), DunneganBoMo_304 (FC), Ellewin_1 (FC), Ellewin_300

(FC), KSunshine22_2 (FC), KSunshine22_294 (FC), LeoJr_3 (FC), LeoJr_316 (FC), ReginaGlobina_2 (FC), ReginaGlobina_313 (FC), WaddleDee_1 (FC), WaddleDee_303 (FC),

Start 5:
• Found in 2 of 16 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchaali_2 (FC), Panchaali_301 (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 2 times for cluster FC.

Gene Information:

Gene: Atuin_2 Start: 659, Stop: 1117, Start Num: 1
Candidate Starts for Atuin_2:
(Start: 1 @659 has 2 MA's), (4, 794), (6, 833), (13, 989), (14, 1022), (15, 1028), (17, 1094), (18, 1097),

Gene: Atuin_302 Start: 177547, Stop: 178005, Start Num: 1
Candidate Starts for Atuin_302:
(Start: 1 @177547 has 2 MA's), (4, 177682), (6, 177721), (13, 177877), (14, 177910), (15, 177916), (17, 177982), (18, 177985),

Gene: DunneganBoMo_1 Start: 66, Stop: 452, Start Num: 1
Candidate Starts for DunneganBoMo_1:
(Start: 1 @66 has 2 MA's), (2, 105), (10, 324), (16, 408), (19, 447),

Gene: DunneganBoMo_304 Start: 179478, Stop: 179864, Start Num: 1
Candidate Starts for DunneganBoMo_304:
(Start: 1 @179478 has 2 MA's), (2, 179517), (10, 179736), (16, 179820), (19, 179859),

Gene: Ellewin_300 Start: 179180, Stop: 179491, Start Num: 1
Candidate Starts for Ellewin_300:
(Start: 1 @179180 has 2 MA's), (7, 179327), (10, 179414),

Gene: Ellewin_1 Start: 66, Stop: 377, Start Num: 1
Candidate Starts for Ellewin_1:
(Start: 1 @66 has 2 MA's), (7, 213), (10, 300),

Gene: KSunshine22_294 Start: 177582, Stop: 177944, Start Num: 1
Candidate Starts for KSunshine22_294:
(Start: 1 @177582 has 2 MA's), (8, 177753), (9, 177762), (10, 177816), (16, 177900), (19, 177939),

Gene: KSunshine22_2 Start: 681, Stop: 1043, Start Num: 1
Candidate Starts for KSunshine22_2:
(Start: 1 @681 has 2 MA's), (8, 852), (9, 861), (10, 915), (16, 999), (19, 1038),

Gene: LeoJr_316 Start: 178116, Stop: 178574, Start Num: 1
Candidate Starts for LeoJr_316:
(Start: 1 @178116 has 2 MA's), (4, 178251), (6, 178290), (13, 178446), (14, 178479), (15, 178485), (17, 178551),

Gene: LeoJr_3 Start: 813, Stop: 1271, Start Num: 1
Candidate Starts for LeoJr_3:
(Start: 1 @813 has 2 MA's), (4, 948), (6, 987), (13, 1143), (14, 1176), (15, 1182), (17, 1248),

Gene: Panchaali_2 Start: 188, Stop: 463, Start Num: 5
Candidate Starts for Panchaali_2:
(5, 188), (10, 338), (11, 347), (12, 359), (19, 458),

Gene: Panchaali_301 Start: 179246, Stop: 179521, Start Num: 5
Candidate Starts for Panchaali_301:
(5, 179246), (10, 179396), (11, 179405), (12, 179417), (19, 179516),

Gene: ReginaGlobina_313 Start: 178103, Stop: 178486, Start Num: 1
Candidate Starts for ReginaGlobina_313:
(Start: 1 @178103 has 2 MA's), (3, 178142), (13, 178343), (14, 178376), (15, 178382), (17, 178448), (20, 178481),

Gene: ReginaGlobina_2 Start: 656, Stop: 1039, Start Num: 1
Candidate Starts for ReginaGlobina_2:
(Start: 1 @656 has 2 MA's), (3, 695), (13, 896), (14, 929), (15, 935), (17, 1001), (20, 1034),

Gene: WaddleDee_303 Start: 178261, Stop: 178647, Start Num: 1
Candidate Starts for WaddleDee_303:
(Start: 1 @178261 has 2 MA's), (2, 178300), (10, 178519), (16, 178603), (19, 178642),

Gene: WaddleDee_1 Start: 66, Stop: 452, Start Num: 1
Candidate Starts for WaddleDee_1:
(Start: 1 @66 has 2 MA's), (2, 105), (10, 324), (16, 408), (19, 447),