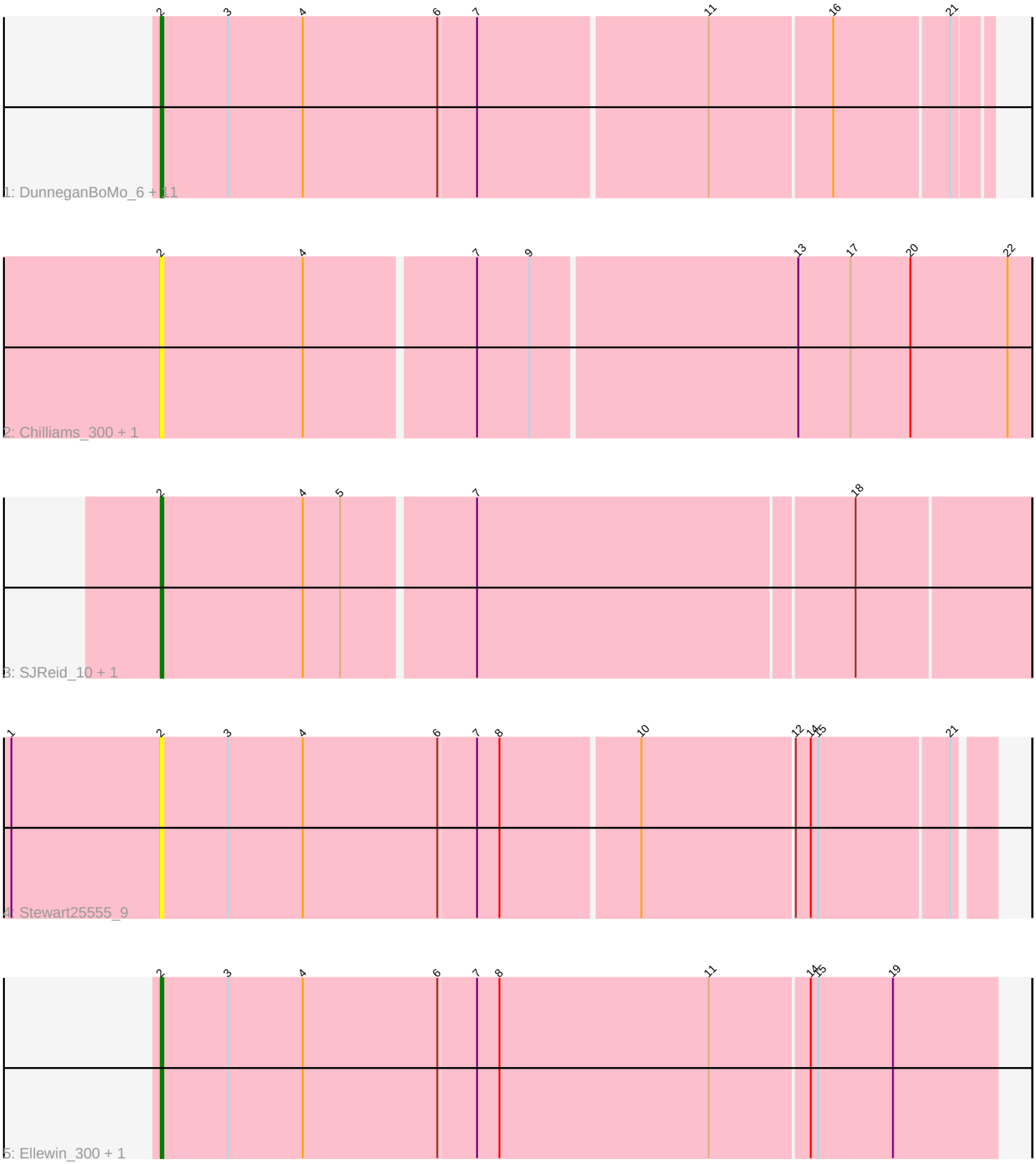
Pham 309370


2
3
4
6
7
11
16
21
1: DunneganBoMo_6 + 11
2
4
7
9
13
17
20
22
2: Chilliams_300 + 1
2
4
5
7
18
3: SJReid_10 + 1
1
2
3
4
6
7
8
10
12
14
15
21
4: Stewart25555_9
2
3
4
6
7
8
11
14
15
19
5: Ellewin_300 + 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 309370 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309370 has 19 members, 11 are drafts.

Phages represented in each track:
• Track 1 : DunneganBoMo_6, WaddleDee_297, Artu_8, KSunshine22_9, BooTeria_306, Artu_295, DunneganBoMo_301, WaddleDee_6, BooTeria_7, Emmetator_6, Emmetator_300, KSunshine22_301
• Track 2 : Chilliams_300, Chilliams_9
• Track 3 : SJReid_10, SJReid_319
• Track 4 : Stewart25555_9
• Track 5 : Ellewin_300, Ellewin_7

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 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_295, Artu_8, BooTeria_306, BooTeria_7, Chilliams_300, Chilliams_9, DunneganBoMo_301, DunneganBoMo_6, Ellewin_300, Ellewin_7, Emmetator_300, Emmetator_6, KSunshine22_301, KSunshine22_9, SJReid_10, SJReid_319, Stewart25555_9, WaddleDee_297, WaddleDee_6,

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

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

Summary by start number:

Start 2:
• Found in 19 of 19 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_295 (FC), Artu_8 (FC), BooTeria_306 (FC), BooTeria_7 (FC), Chilliams_300 (FC), Chilliams_9 (FC), DunneganBoMo_301 (FC), DunneganBoMo_6 (FC), Ellewin_300 (FC), Ellewin_7

(FC), Emmetator_300 (FC), Emmetator_6 (FC), KSunshine22_301 (FC), KSunshine22_9 (FC), SJReid_10 (FC), SJReid_319 (FC), Stewart25555_9 (FC), WaddleDee_297 (FC), WaddleDee_6 (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 8 times for cluster FC.

Gene Information:

Gene: Artu_8 Start: 3867, Stop: 4190, Start Num: 2
Candidate Starts for Artu_8:
(Start: 2 @3867 has 8 MA's), (3, 3894), (4, 3924), (6, 3978), (7, 3993), (11, 4083), (16, 4131), (21, 4176),

Gene: Artu_295 Start: 183021, Stop: 183344, Start Num: 2
Candidate Starts for Artu_295:
(Start: 2 @183021 has 8 MA's), (3, 183048), (4, 183078), (6, 183132), (7, 183147), (11, 183237), (16, 183285), (21, 183330),

Gene: BooTeria_306 Start: 182814, Stop: 183137, Start Num: 2
Candidate Starts for BooTeria_306:
(Start: 2 @182814 has 8 MA's), (3, 182841), (4, 182871), (6, 182925), (7, 182940), (11, 183030), (16, 183078), (21, 183123),

Gene: BooTeria_7 Start: 3905, Stop: 4228, Start Num: 2
Candidate Starts for BooTeria_7:
(Start: 2 @3905 has 8 MA's), (3, 3932), (4, 3962), (6, 4016), (7, 4031), (11, 4121), (16, 4169), (21, 4214),

Gene: Chilliams_300 Start: 177470, Stop: 177811, Start Num: 2
Candidate Starts for Chilliams_300:
(Start: 2 @177470 has 8 MA's), (4, 177527), (7, 177593), (9, 177614), (13, 177719), (17, 177740), (20, 177764), (22, 177803),

Gene: Chilliams_9 Start: 4736, Stop: 5077, Start Num: 2
Candidate Starts for Chilliams_9:
(Start: 2 @4736 has 8 MA's), (4, 4793), (7, 4859), (9, 4880), (13, 4985), (17, 5006), (20, 5030), (22, 5069),

Gene: DunneganBoMo_6 Start: 3916, Stop: 4239, Start Num: 2
Candidate Starts for DunneganBoMo_6:
(Start: 2 @3916 has 8 MA's), (3, 3943), (4, 3973), (6, 4027), (7, 4042), (11, 4132), (16, 4180), (21, 4225),

Gene: DunneganBoMo_301 Start: 183328, Stop: 183651, Start Num: 2
Candidate Starts for DunneganBoMo_301:

(Start: 2 @183328 has 8 MA's), (3, 183355), (4, 183385), (6, 183439), (7, 183454), (11, 183544), (16, 183592), (21, 183637),

Gene: Ellewin_300 Start: 182937, Stop: 183269, Start Num: 2
Candidate Starts for Ellewin_300:
(Start: 2 @182937 has 8 MA's), (3, 182964), (4, 182994), (6, 183048), (7, 183063), (8, 183072), (11, 183156), (14, 183195), (15, 183198), (19, 183228),

Gene: Ellewin_7 Start: 3823, Stop: 4155, Start Num: 2
Candidate Starts for Ellewin_7:
(Start: 2 @3823 has 8 MA's), (3, 3850), (4, 3880), (6, 3934), (7, 3949), (8, 3958), (11, 4042), (14, 4081), (15, 4084), (19, 4114),

Gene: Emmetator_6 Start: 4075, Stop: 4398, Start Num: 2
Candidate Starts for Emmetator_6:
(Start: 2 @4075 has 8 MA's), (3, 4102), (4, 4132), (6, 4186), (7, 4201), (11, 4291), (16, 4339), (21, 4384),

Gene: Emmetator_300 Start: 182375, Stop: 182698, Start Num: 2
Candidate Starts for Emmetator_300:
(Start: 2 @182375 has 8 MA's), (3, 182402), (4, 182432), (6, 182486), (7, 182501), (11, 182591), (16, 182639), (21, 182684),

Gene: KSunshine22_9 Start: 4506, Stop: 4829, Start Num: 2
Candidate Starts for KSunshine22_9:
(Start: 2 @4506 has 8 MA's), (3, 4533), (4, 4563), (6, 4617), (7, 4632), (11, 4722), (16, 4770), (21, 4815),

Gene: KSunshine22_301 Start: 181407, Stop: 181730, Start Num: 2
Candidate Starts for KSunshine22_301:
(Start: 2 @181407 has 8 MA's), (3, 181434), (4, 181464), (6, 181518), (7, 181533), (11, 181623), (16, 181671), (21, 181716),

Gene: SJReid_10 Start: 5211, Stop: 5549, Start Num: 2
Candidate Starts for SJReid_10:
(Start: 2 @5211 has 8 MA's), (4, 5268), (5, 5283), (7, 5334), (18, 5481),

Gene: SJReid_319 Start: 178050, Stop: 178388, Start Num: 2
Candidate Starts for SJReid_319:
(Start: 2 @178050 has 8 MA's), (4, 178107), (5, 178122), (7, 178173), (18, 178320),

Gene: Stewart25555_9 Start: 4661, Stop: 4984, Start Num: 2
Candidate Starts for Stewart25555_9:
(1, 4601), (Start: 2 @4661 has 8 MA's), (3, 4688), (4, 4718), (6, 4772), (7, 4787), (8, 4796), (10, 4850), (12, 4910), (14, 4916), (15, 4919), (21, 4970),

Gene: WaddleDee_297 Start: 182111, Stop: 182434, Start Num: 2
Candidate Starts for WaddleDee_297:
(Start: 2 @182111 has 8 MA's), (3, 182138), (4, 182168), (6, 182222), (7, 182237), (11, 182327), (16, 182375), (21, 182420),

Gene: WaddleDee_6 Start: 3916, Stop: 4239, Start Num: 2
Candidate Starts for WaddleDee_6:

(Start: 2 @3916 has 8 MA's), (3, 3943), (4, 3973), (6, 4027), (7, 4042), (11, 4132), (16, 4180), (21, 4225),