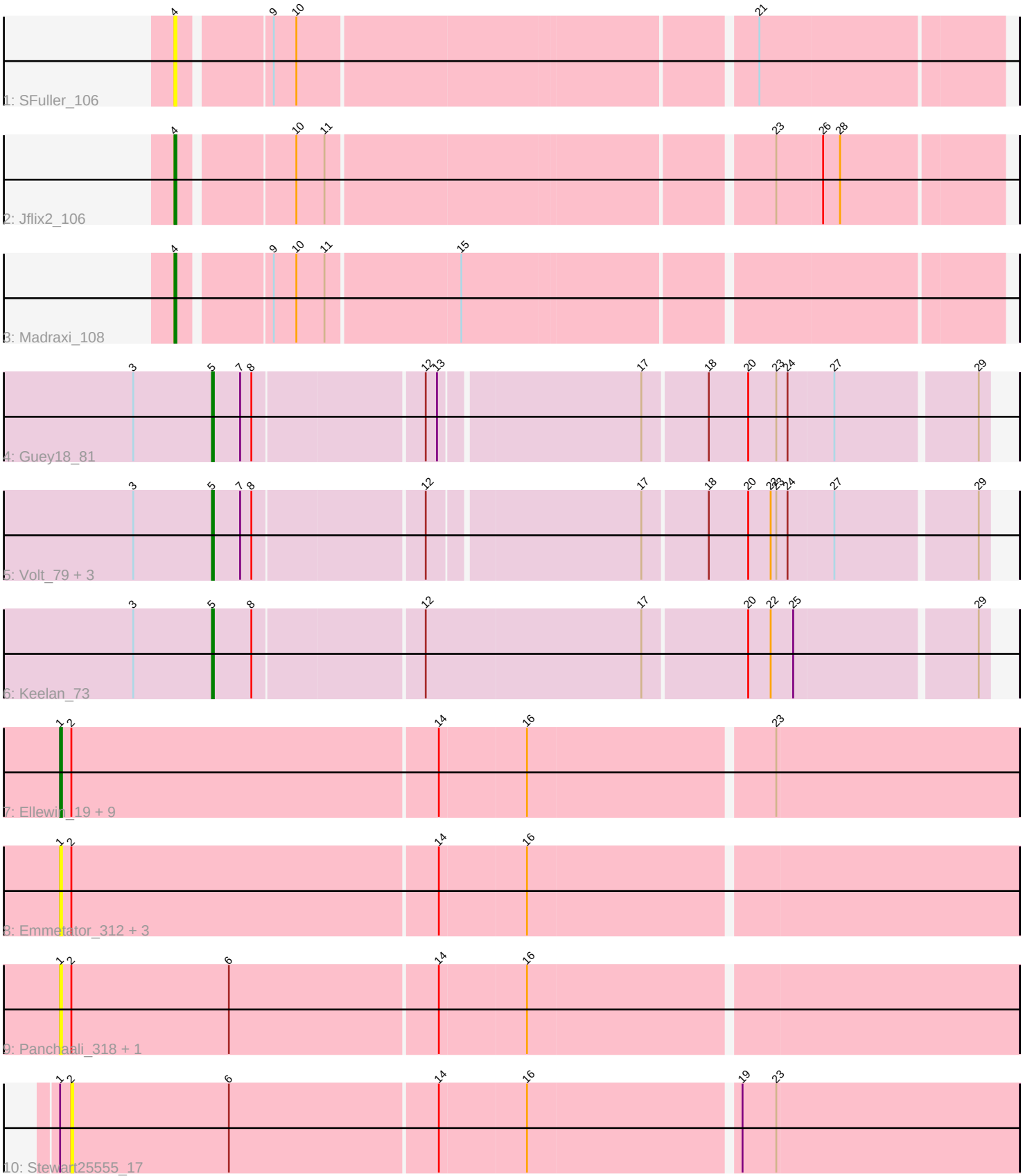
Pham 284105


1: SFuller_106
2: Jflix2_106
3: Madraxi_108
4: Guey18_81
5: Volt_79 + 3
6: Keelan_73
7: Ellewin_19 + 9
8: Emmetator_312 + 3
9: Panchaali_318 + 1
10: Stewart25555_17

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 284105 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284105 has 26 members, 14 are drafts.

Phages represented in each track:
• Track 1 : SFuller_106
• Track 2 : Jflix2_106
• Track 3 : Madraxi_108
• Track 4 : Guey18_81
• Track 5 : Volt_79, Ronaldo_79, Ziko_79, Fryberger_75
• Track 6 : Keelan_73
• Track 7 : Ellewin_19, KSunshine22_311, KSunshine22_19, Ellewin_318, Artu_19, DunneganBoMo_313, WaddleDee_308, Artu_306, WaddleDee_17, DunneganBoMo_18
• Track 8 : Emmetator_312, Emmetator_18, BooTeria_320, BooTeria_21
• Track 9 : Panchaali_318, Panchaali_19
• Track 10 : Stewart25555_17

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

The start number called the most often in the published annotations is 5, it was called in 6 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fryberger_75, Guey18_81, Keelan_73, Ronaldo_79, Volt_79, Ziko_79,

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

Genes that do not have the "Most Annotated" start:
• Artu_19, Artu_306, BooTeria_21, BooTeria_320, DunneganBoMo_18, DunneganBoMo_313, Ellewin_19, Ellewin_318, Emmetator_18, Emmetator_312, Jflix2_106, KSunshine22_19, KSunshine22_311, Madraxi_108, Panchaali_19, Panchaali_318, SFuller_106, Stewart25555_17, WaddleDee_17, WaddleDee_308,

Summary by start number:

Start 1:
• Found in 17 of 26 (65.4%) of genes in pham

• Manual Annotations of this start: 4 of 12
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Artu_19 (FC), Artu_306 (FC), BooTeria_21 (FC), BooTeria_320 (FC), DunneganBoMo_18 (FC), DunneganBoMo_313 (FC), Ellewin_19 (FC), Ellewin_318 (FC), Emmetator_18 (FC), Emmetator_312 (FC), KSunshine22_19 (FC), KSunshine22_311 (FC), Panchaali_19 (FC), Panchaali_318 (FC), WaddleDee_17 (FC), WaddleDee_308 (FC),

Start 2:
• Found in 17 of 26 (65.4%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Stewart25555_17 (FC),

Start 4:
• Found in 3 of 26 (11.5%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jflix2_106 (CF), Madraxi_108 (CF), SFuller_106 (CF),

Start 5:
• Found in 6 of 26 (23.1%) of genes in pham
• Manual Annotations of this start: 6 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fryberger_75 (DP), Guey18_81 (DP), Keelan_73 (DP), Ronaldo_79 (DP), Volt_79 (DP), Ziko_79 (DP),

Summary by clusters:

There are 3 clusters represented in this pham: FC, CF, DP,

Info for manual annotations of cluster CF:
•Start number 4 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster DP:
•Start number 5 was manually annotated 6 times for cluster DP.

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

Gene Information:

Gene: Artu_19 Start: 7846, Stop: 8343, Start Num: 1
Candidate Starts for Artu_19:
(Start: 1 @7846 has 4 MA's), (2, 7852), (14, 8044), (16, 8089), (23, 8215),

Gene: Artu_306 Start: 187000, Stop: 187497, Start Num: 1
Candidate Starts for Artu_306:
(Start: 1 @187000 has 4 MA's), (2, 187006), (14, 187198), (16, 187243), (23, 187369),

Gene: BooTeria_320 Start: 187340, Stop: 187837, Start Num: 1
Candidate Starts for BooTeria_320:
(Start: 1 @187340 has 4 MA's), (2, 187346), (14, 187538), (16, 187583),

Gene: BooTeria_21 Start: 8431, Stop: 8928, Start Num: 1
Candidate Starts for BooTeria_21:
(Start: 1 @8431 has 4 MA's), (2, 8437), (14, 8629), (16, 8674),

Gene: DunneganBoMo_313 Start: 187774, Stop: 188271, Start Num: 1
Candidate Starts for DunneganBoMo_313:
(Start: 1 @187774 has 4 MA's), (2, 187780), (14, 187972), (16, 188017), (23, 188143),

Gene: DunneganBoMo_18 Start: 8362, Stop: 8859, Start Num: 1
Candidate Starts for DunneganBoMo_18:
(Start: 1 @8362 has 4 MA's), (2, 8368), (14, 8560), (16, 8605), (23, 8731),

Gene: Ellewin_19 Start: 8450, Stop: 8947, Start Num: 1
Candidate Starts for Ellewin_19:
(Start: 1 @8450 has 4 MA's), (2, 8456), (14, 8648), (16, 8693), (23, 8819),

Gene: Ellewin_318 Start: 187564, Stop: 188061, Start Num: 1
Candidate Starts for Ellewin_318:
(Start: 1 @187564 has 4 MA's), (2, 187570), (14, 187762), (16, 187807), (23, 187933),

Gene: Emmetator_312 Start: 186566, Stop: 187063, Start Num: 1
Candidate Starts for Emmetator_312:
(Start: 1 @186566 has 4 MA's), (2, 186572), (14, 186764), (16, 186809),

Gene: Emmetator_18 Start: 8266, Stop: 8763, Start Num: 1
Candidate Starts for Emmetator_18:
(Start: 1 @8266 has 4 MA's), (2, 8272), (14, 8464), (16, 8509),

Gene: Fryberger_75 Start: 40522, Stop: 40130, Start Num: 5
Candidate Starts for Fryberger_75:
(3, 40564), (Start: 5 @40522 has 6 MA's), (7, 40507), (8, 40501), (12, 40414), (17, 40306), (18, 40273), (20, 40252), (22, 40240), (23, 40237), (24, 40231), (27, 40207), (29, 40135),

Gene: Guey18_81 Start: 41893, Stop: 41501, Start Num: 5
Candidate Starts for Guey18_81:
(3, 41935), (Start: 5 @41893 has 6 MA's), (7, 41878), (8, 41872), (12, 41785), (13, 41779), (17, 41677), (18, 41644), (20, 41623), (23, 41608), (24, 41602), (27, 41578), (29, 41506),

Gene: Jflix2_106 Start: 61115, Stop: 60702, Start Num: 4
Candidate Starts for Jflix2_106:
(Start: 4 @61115 has 2 MA's), (10, 61058), (11, 61043), (23, 60818), (26, 60794), (28, 60785),

Gene: KSunshine22_311 Start: 185876, Stop: 186373, Start Num: 1
Candidate Starts for KSunshine22_311:
(Start: 1 @185876 has 4 MA's), (2, 185882), (14, 186074), (16, 186119), (23, 186245),

Gene: KSunshine22_19 Start: 8975, Stop: 9472, Start Num: 1
Candidate Starts for KSunshine22_19:
(Start: 1 @8975 has 4 MA's), (2, 8981), (14, 9173), (16, 9218), (23, 9344),

Gene: Keelan_73 Start: 40361, Stop: 39963, Start Num: 5
Candidate Starts for Keelan_73:
(3, 40403), (Start: 5 @40361 has 6 MA's), (8, 40340), (12, 40253), (17, 40139), (20, 40085), (22, 40073), (25, 40061), (29, 39968),

Gene: Madraxi_108 Start: 63145, Stop: 62732, Start Num: 4
Candidate Starts for Madraxi_108:
(Start: 4 @63145 has 2 MA's), (9, 63100), (10, 63088), (11, 63073), (15, 63004),

Gene: Panchaali_318 Start: 186852, Stop: 187349, Start Num: 1
Candidate Starts for Panchaali_318:
(Start: 1 @186852 has 4 MA's), (2, 186858), (6, 186942), (14, 187050), (16, 187095),

Gene: Panchaali_19 Start: 7794, Stop: 8291, Start Num: 1
Candidate Starts for Panchaali_19:
(Start: 1 @7794 has 4 MA's), (2, 7800), (6, 7884), (14, 7992), (16, 8037),

Gene: Ronaldo_79 Start: 41666, Stop: 41274, Start Num: 5
Candidate Starts for Ronaldo_79:
(3, 41708), (Start: 5 @41666 has 6 MA's), (7, 41651), (8, 41645), (12, 41558), (17, 41450), (18, 41417), (20, 41396), (22, 41384), (23, 41381), (24, 41375), (27, 41351), (29, 41279),

Gene: SFuller_106 Start: 61855, Stop: 61442, Start Num: 4
Candidate Starts for SFuller_106:
(Start: 4 @61855 has 2 MA's), (9, 61810), (10, 61798), (21, 61567),

Gene: Stewart25555_17 Start: 8261, Stop: 8752, Start Num: 2
Candidate Starts for Stewart25555_17:
(Start: 1 @8255 has 4 MA's), (2, 8261), (6, 8345), (14, 8453), (16, 8498), (19, 8606), (23, 8624),

Gene: Volt_79 Start: 41830, Stop: 41438, Start Num: 5
Candidate Starts for Volt_79:
(3, 41872), (Start: 5 @41830 has 6 MA's), (7, 41815), (8, 41809), (12, 41722), (17, 41614), (18, 41581), (20, 41560), (22, 41548), (23, 41545), (24, 41539), (27, 41515), (29, 41443),

Gene: WaddleDee_308 Start: 186302, Stop: 186799, Start Num: 1
Candidate Starts for WaddleDee_308:
(Start: 1 @186302 has 4 MA's), (2, 186308), (14, 186500), (16, 186545), (23, 186671),

Gene: WaddleDee_17 Start: 8107, Stop: 8604, Start Num: 1
Candidate Starts for WaddleDee_17:
(Start: 1 @8107 has 4 MA's), (2, 8113), (14, 8305), (16, 8350), (23, 8476),

Gene: Ziko_79 Start: 41652, Stop: 41260, Start Num: 5
Candidate Starts for Ziko_79:
(3, 41694), (Start: 5 @41652 has 6 MA's), (7, 41637), (8, 41631), (12, 41544), (17, 41436), (18, 41403), (20, 41382), (22, 41370), (23, 41367), (24, 41361), (27, 41337), (29, 41265),