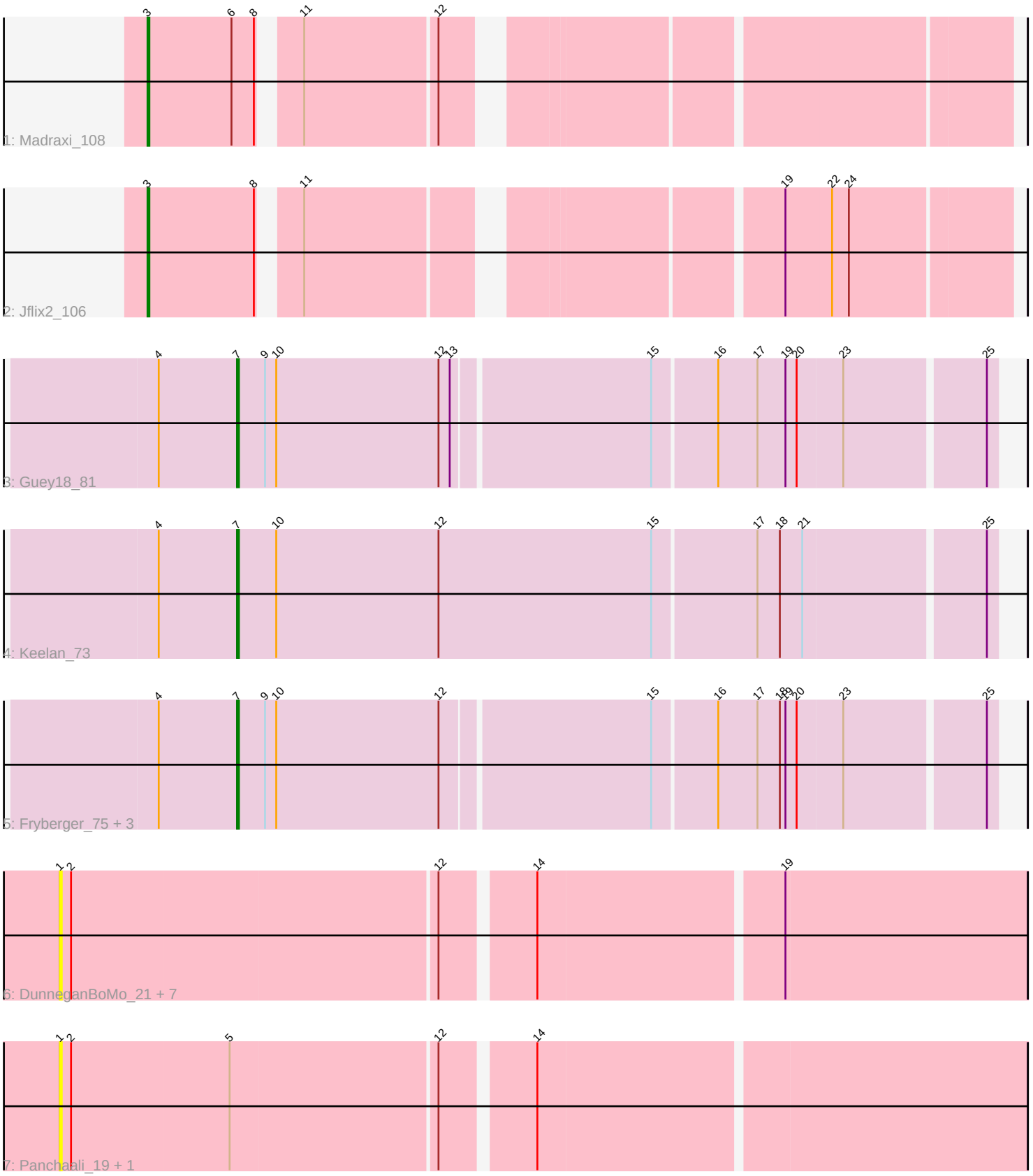
# Pham 224929


3
6
8
11
12
1: Madraxi_108
3
8
11
19
22
24
2: Jflix2_106
4
7
9
10
12
13
15
16
17
19
20
23
25
3: Guey18_81
4
7
10
12
15
17
18
21
25
4: Keelan_73
4
7
9
10
12
15
16
17
18
19
20
23
25
5: Fryberger_75 + 3
1
2
12
14
19
6: DunneganBoMo_21 + 7
1
2
5
12
14
7: Panchaali_19 + 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 224929 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224929 has 18 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Madraxi_108
• Track 2 : Jflix2_106
• Track 3 : Guey18_81
• Track 4 : Keelan_73
• Track 5 : Fryberger_75, Volt_79, Ronaldo_79, Ziko_79
• Track 6 : DunneganBoMo_21, Ellewin_19, KSunshine22_311, WaddleDee_321, Ellewin_318, KSunshine22_19, DunneganBoMo_324, WaddleDee_19
• Track 7 : Panchaali_19, Panchaali_318

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

The start number called the most often in the published annotations is 7, it was called in 6 of the 8 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:
• DunneganBoMo_21, DunneganBoMo_324, Ellewin_19, Ellewin_318, Jflix2_106, KSunshine22_19, KSunshine22_311, Madraxi_108, Panchaali_19, Panchaali_318, WaddleDee_19, WaddleDee_321,

**Summary by start number:**

Start 1:
• Found in 10 of 18 ( 55.6% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_21 (FC), DunneganBoMo_324 (FC), Ellewin_19 (FC), Ellewin_318 (FC), KSunshine22_19 (FC), KSunshine22_311 (FC), Panchaali_19 (FC), Panchaali_318 (FC),

WaddleDee_19 (FC), WaddleDee_321 (FC),

Start 3:
• Found in 2 of 18 ( 11.1% ) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jflix2_106 (CF), Madraxi_108 (CF),

Start 7:
• Found in 6 of 18 ( 33.3% ) of genes in pham
• Manual Annotations of this start: 6 of 8
• 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 3 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster DP:
•Start number 7 was manually annotated 6 times for cluster DP.

***Gene Information:***

Gene: DunneganBoMo_21 Start: 8362, Stop: 8859, Start Num: 1
Candidate Starts for DunneganBoMo_21:
(1, 8362), (2, 8368), (12, 8560), (14, 8605), (19, 8731),

Gene: DunneganBoMo_324 Start: 187774, Stop: 188271, Start Num: 1
Candidate Starts for DunneganBoMo_324:
(1, 187774), (2, 187780), (12, 187972), (14, 188017), (19, 188143),

Gene: Ellewin_19 Start: 8450, Stop: 8947, Start Num: 1
Candidate Starts for Ellewin_19:
(1, 8450), (2, 8456), (12, 8648), (14, 8693), (19, 8819),

Gene: Ellewin_318 Start: 187564, Stop: 188061, Start Num: 1
Candidate Starts for Ellewin_318:
(1, 187564), (2, 187570), (12, 187762), (14, 187807), (19, 187933),

Gene: Fryberger_75 Start: 40522, Stop: 40130, Start Num: 7
Candidate Starts for Fryberger_75:
(4, 40564), (Start: 7 @40522 has 6 MA's), (9, 40507), (10, 40501), (12, 40414), (15, 40306), (16, 40273), (17, 40252), (18, 40240), (19, 40237), (20, 40231), (23, 40207), (25, 40135),

Gene: Guey18_81 Start: 41893, Stop: 41501, Start Num: 7
Candidate Starts for Guey18_81:

(4, 41935), (Start: 7 @41893 has 6 MA's), (9, 41878), (10, 41872), (12, 41785), (13, 41779), (15, 41677), (16, 41644), (17, 41623), (19, 41608), (20, 41602), (23, 41578), (25, 41506),

Gene: Jflix2_106 Start: 61115, Stop: 60702, Start Num: 3
Candidate Starts for Jflix2_106:
(Start: 3 @61115 has 2 MA's), (8, 61058), (11, 61043), (19, 60818), (22, 60794), (24, 60785),

Gene: KSunshine22_311 Start: 185876, Stop: 186373, Start Num: 1
Candidate Starts for KSunshine22_311:
(1, 185876), (2, 185882), (12, 186074), (14, 186119), (19, 186245),

Gene: KSunshine22_19 Start: 8975, Stop: 9472, Start Num: 1
Candidate Starts for KSunshine22_19:
(1, 8975), (2, 8981), (12, 9173), (14, 9218), (19, 9344),

Gene: Keelan_73 Start: 40361, Stop: 39963, Start Num: 7
Candidate Starts for Keelan_73:
(4, 40403), (Start: 7 @40361 has 6 MA's), (10, 40340), (12, 40253), (15, 40139), (17, 40085), (18, 40073), (21, 40061), (25, 39968),

Gene: Madraxi_108 Start: 63145, Stop: 62732, Start Num: 3
Candidate Starts for Madraxi_108:
(Start: 3 @63145 has 2 MA's), (6, 63100), (8, 63088), (11, 63073), (12, 63004),

Gene: Panchaali_19 Start: 7794, Stop: 8291, Start Num: 1
Candidate Starts for Panchaali_19:
(1, 7794), (2, 7800), (5, 7884), (12, 7992), (14, 8037),

Gene: Panchaali_318 Start: 186852, Stop: 187349, Start Num: 1
Candidate Starts for Panchaali_318:
(1, 186852), (2, 186858), (5, 186942), (12, 187050), (14, 187095),

Gene: Ronaldo_79 Start: 41666, Stop: 41274, Start Num: 7
Candidate Starts for Ronaldo_79:
(4, 41708), (Start: 7 @41666 has 6 MA's), (9, 41651), (10, 41645), (12, 41558), (15, 41450), (16, 41417), (17, 41396), (18, 41384), (19, 41381), (20, 41375), (23, 41351), (25, 41279),

Gene: Volt_79 Start: 41830, Stop: 41438, Start Num: 7
Candidate Starts for Volt_79:
(4, 41872), (Start: 7 @41830 has 6 MA's), (9, 41815), (10, 41809), (12, 41722), (15, 41614), (16, 41581), (17, 41560), (18, 41548), (19, 41545), (20, 41539), (23, 41515), (25, 41443),

Gene: WaddleDee_321 Start: 186302, Stop: 186799, Start Num: 1
Candidate Starts for WaddleDee_321:
(1, 186302), (2, 186308), (12, 186500), (14, 186545), (19, 186671),

Gene: WaddleDee_19 Start: 8107, Stop: 8604, Start Num: 1
Candidate Starts for WaddleDee_19:
(1, 8107), (2, 8113), (12, 8305), (14, 8350), (19, 8476),

Gene: Ziko_79 Start: 41652, Stop: 41260, Start Num: 7
Candidate Starts for Ziko_79:

(4, 41694), (Start: 7 @41652 has 6 MA's), (9, 41637), (10, 41631), (12, 41544), (15, 41436), (16, 41403), (17, 41382), (18, 41370), (19, 41367), (20, 41361), (23, 41337), (25, 41265),