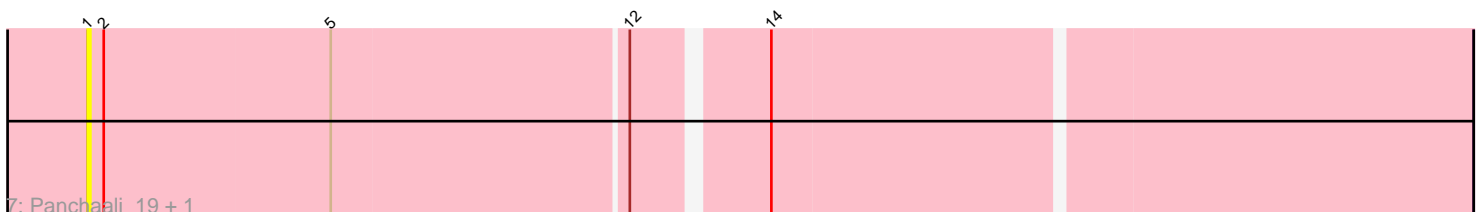
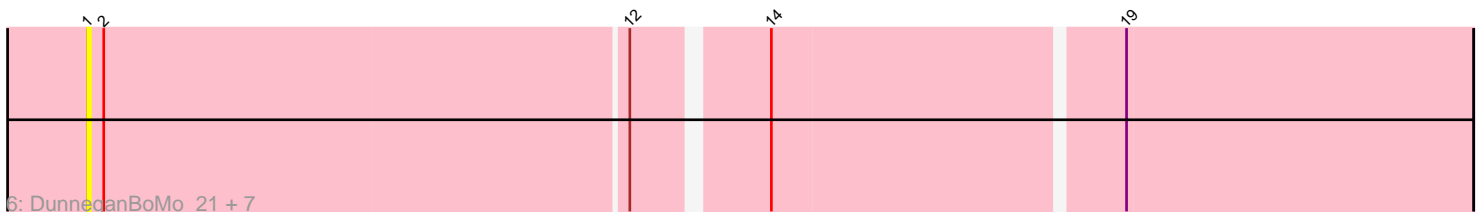
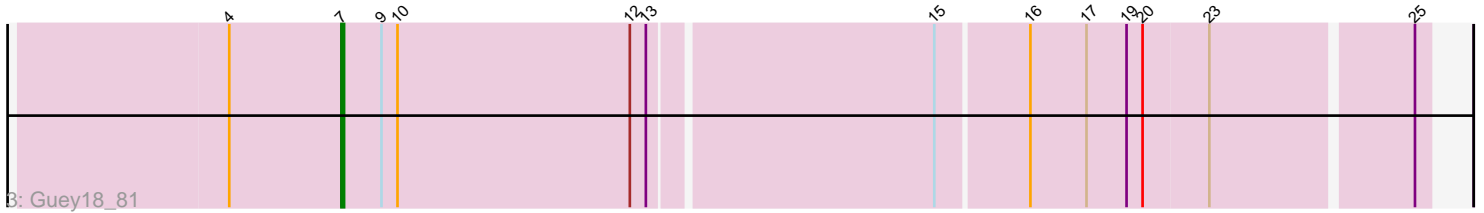
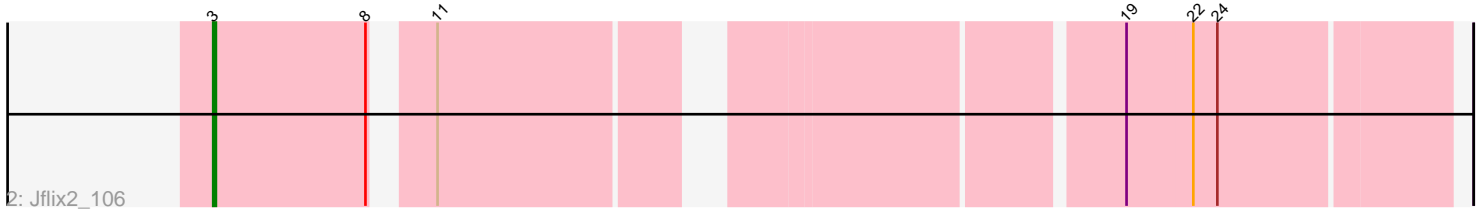
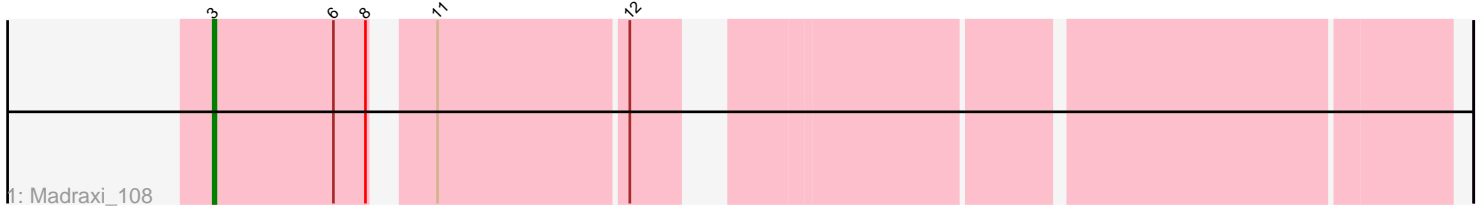


Pham 213037



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 213037 Report

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

Pham number 213037 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),