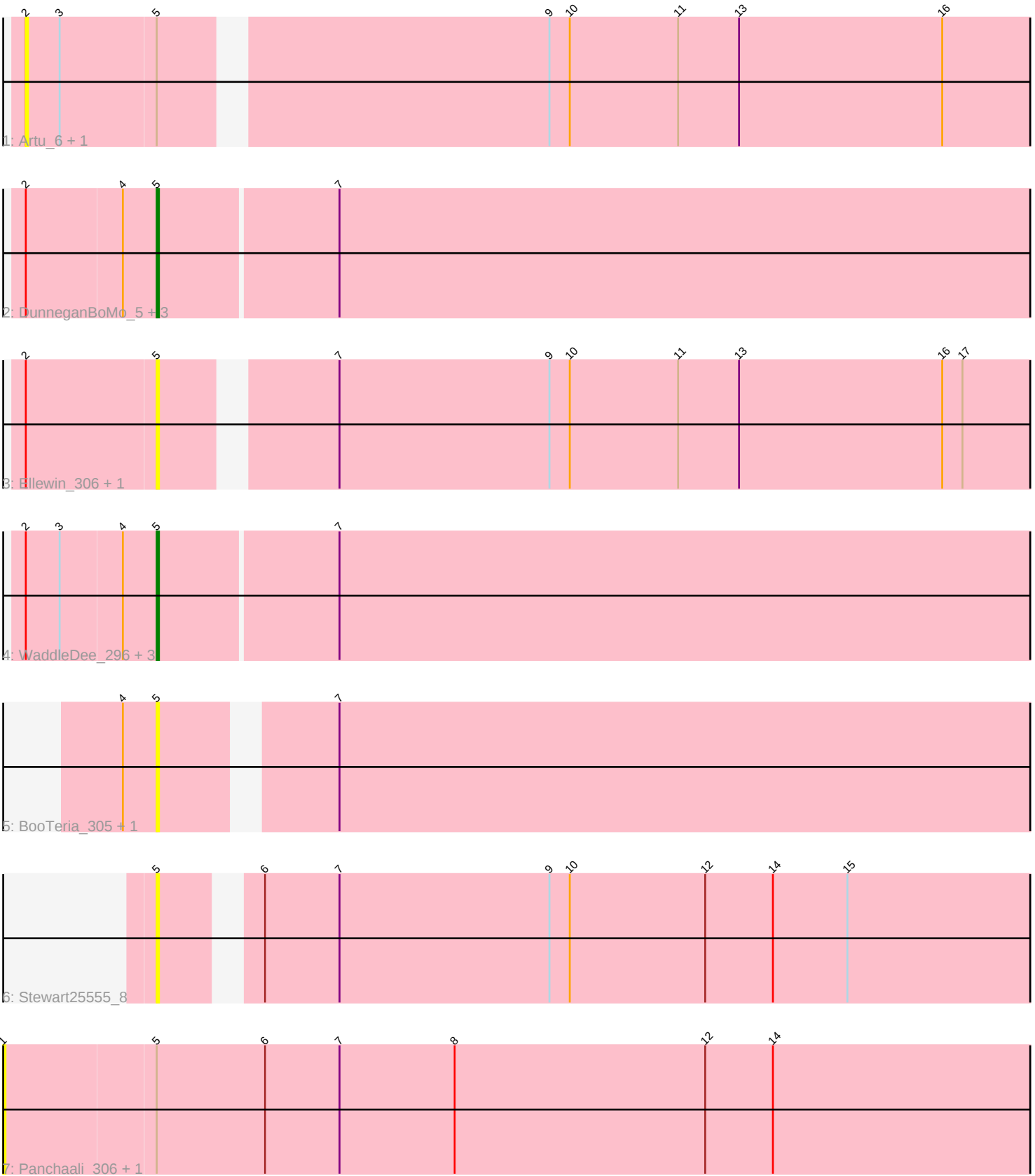


Pham 270089



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 270089 Report

This analysis was run 02/07/26 on database version 634.

Pham number 270089 has 17 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Artu_6, Artu_293
- Track 2 : DunneganBoMo_5, Emmetator_299, DunneganBoMo_300, Emmetator_5
- Track 3 : Ellewin_306, Ellewin_7
- Track 4 : WaddleDee_296, WaddleDee_5, KSunshine22_8, KSunshine22_300
- Track 5 : BooTeria_305, BooTeria_6
- Track 6 : Stewart25555_8
- Track 7 : Panchaali_306, Panchaali_7

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 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BooTeria_305, BooTeria_6, DunneganBoMo_300, DunneganBoMo_5, Ellewin_306, Ellewin_7, Emmetator_299, Emmetator_5, KSunshine22_300, KSunshine22_8, Stewart25555_8, WaddleDee_296, WaddleDee_5,

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

- Artu_293, Artu_6, Panchaali_306, Panchaali_7,

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

-

Summary by start number:

Start 1:

- Found in 2 of 17 (11.8%) 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_306 (FC), Panchaali_7 (FC),

Start 2:

- Found in 12 of 17 (70.6%) of genes in pham

- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Artu_293 (FC), Artu_6 (FC),

Start 5:

- Found in 17 of 17 (100.0%) of genes in pham
- Manual Annotations of this start: 4 of 4
- Called 76.5% of time when present
- Phage (with cluster) where this start called: BooTeria_305 (FC), BooTeria_6 (FC), DunneganBoMo_300 (FC), DunneganBoMo_5 (FC), Ellewin_306 (FC), Ellewin_7 (FC), Emmetator_299 (FC), Emmetator_5 (FC), KSunshine22_300 (FC), KSunshine22_8 (FC), Stewart25555_8 (FC), WaddleDee_296 (FC), WaddleDee_5 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 5 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: Artu_6 Start: 3353, Stop: 3793, Start Num: 2

Candidate Starts for Artu_6:

(2, 3353), (3, 3368), (Start: 5 @3410 has 4 MA's), (9, 3569), (10, 3578), (11, 3626), (13, 3653), (16, 3743),

Gene: Artu_293 Start: 182507, Stop: 182947, Start Num: 2

Candidate Starts for Artu_293:

(2, 182507), (3, 182522), (Start: 5 @182564 has 4 MA's), (9, 182723), (10, 182732), (11, 182780), (13, 182807), (16, 182897),

Gene: BooTeria_305 Start: 182346, Stop: 182732, Start Num: 5

Candidate Starts for BooTeria_305:

(4, 182331), (Start: 5 @182346 has 4 MA's), (7, 182412),

Gene: BooTeria_6 Start: 3437, Stop: 3823, Start Num: 5

Candidate Starts for BooTeria_6:

(4, 3422), (Start: 5 @3437 has 4 MA's), (7, 3503),

Gene: DunneganBoMo_5 Start: 3436, Stop: 3834, Start Num: 5

Candidate Starts for DunneganBoMo_5:

(2, 3379), (4, 3421), (Start: 5 @3436 has 4 MA's), (7, 3514),

Gene: DunneganBoMo_300 Start: 182848, Stop: 183246, Start Num: 5

Candidate Starts for DunneganBoMo_300:

(2, 182791), (4, 182833), (Start: 5 @182848 has 4 MA's), (7, 182926),

Gene: Ellewin_306 Start: 182480, Stop: 182863, Start Num: 5

Candidate Starts for Ellewin_306:

(2, 182423), (Start: 5 @182480 has 4 MA's), (7, 182546), (9, 182639), (10, 182648), (11, 182696), (13, 182723), (16, 182813), (17, 182822),

Gene: Ellewin_7 Start: 3366, Stop: 3749, Start Num: 5

Candidate Starts for Ellewin_7:

(2, 3309), (Start: 5 @3366 has 4 MA's), (7, 3432), (9, 3525), (10, 3534), (11, 3582), (13, 3609), (16, 3699), (17, 3708),

Gene: Emmetator_299 Start: 181895, Stop: 182293, Start Num: 5

Candidate Starts for Emmetator_299:

(2, 181838), (4, 181880), (Start: 5 @181895 has 4 MA's), (7, 181973),

Gene: Emmetator_5 Start: 3595, Stop: 3993, Start Num: 5

Candidate Starts for Emmetator_5:

(2, 3538), (4, 3580), (Start: 5 @3595 has 4 MA's), (7, 3673),

Gene: KSunshine22_8 Start: 4026, Stop: 4424, Start Num: 5

Candidate Starts for KSunshine22_8:

(2, 3969), (3, 3984), (4, 4011), (Start: 5 @4026 has 4 MA's), (7, 4104),

Gene: KSunshine22_300 Start: 180927, Stop: 181325, Start Num: 5

Candidate Starts for KSunshine22_300:

(2, 180870), (3, 180885), (4, 180912), (Start: 5 @180927 has 4 MA's), (7, 181005),

Gene: Panchaali_306 Start: 182503, Stop: 182970, Start Num: 1

Candidate Starts for Panchaali_306:

(1, 182503), (Start: 5 @182569 has 4 MA's), (6, 182617), (7, 182650), (8, 182701), (12, 182812), (14, 182842),

Gene: Panchaali_7 Start: 3445, Stop: 3912, Start Num: 1

Candidate Starts for Panchaali_7:

(1, 3445), (Start: 5 @3511 has 4 MA's), (6, 3559), (7, 3592), (8, 3643), (12, 3754), (14, 3784),

Gene: Stewart25555_8 Start: 4218, Stop: 4604, Start Num: 5

Candidate Starts for Stewart25555_8:

(Start: 5 @4218 has 4 MA's), (6, 4251), (7, 4284), (9, 4377), (10, 4386), (12, 4446), (14, 4476), (15, 4509),

Gene: WaddleDee_296 Start: 181631, Stop: 182029, Start Num: 5

Candidate Starts for WaddleDee_296:

(2, 181574), (3, 181589), (4, 181616), (Start: 5 @181631 has 4 MA's), (7, 181709),

Gene: WaddleDee_5 Start: 3436, Stop: 3834, Start Num: 5

Candidate Starts for WaddleDee_5:

(2, 3379), (3, 3394), (4, 3421), (Start: 5 @3436 has 4 MA's), (7, 3514),