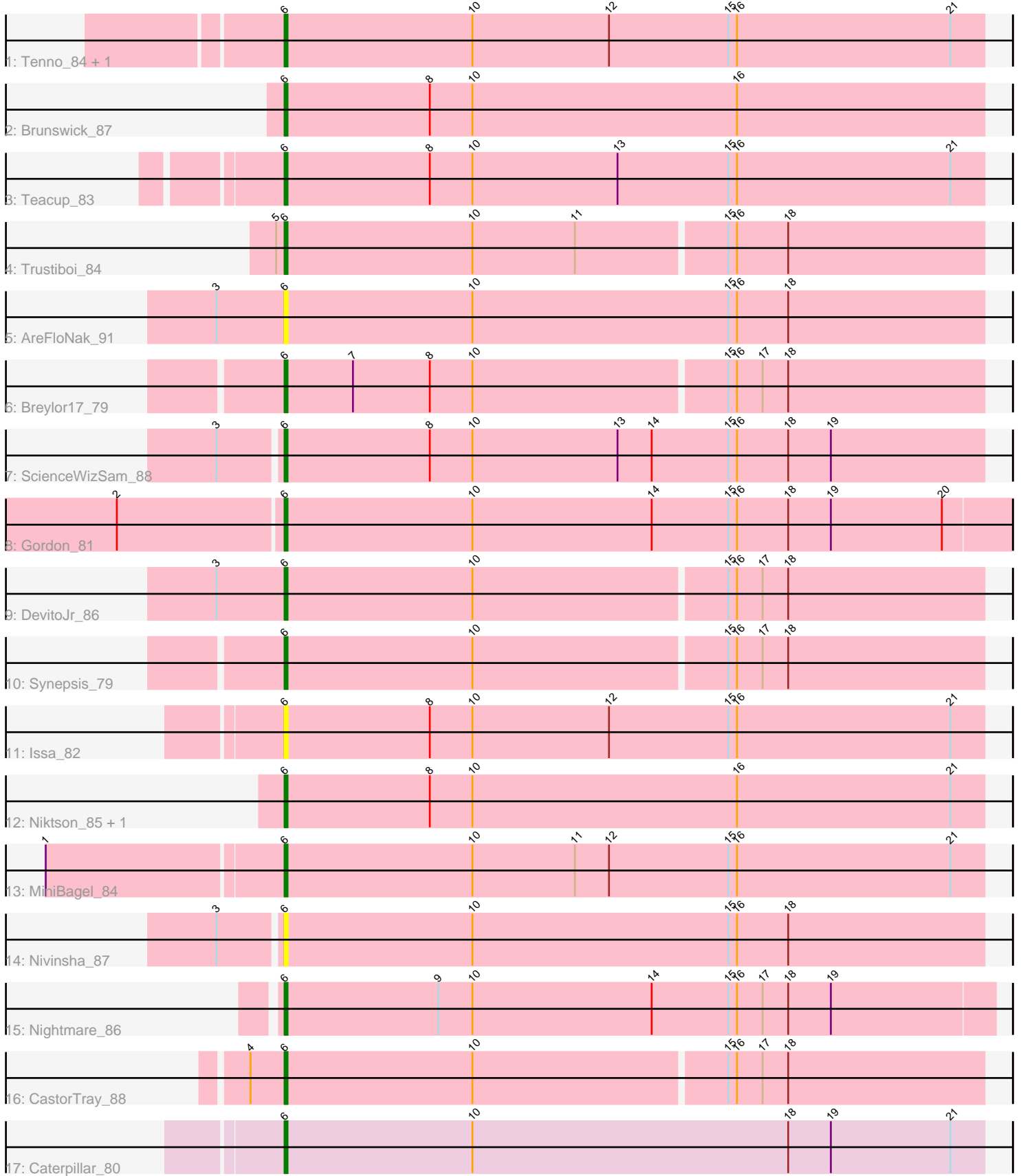


Pham 171803



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 171803 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171803 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Tenno\_84, CapnMurica\_80
- Track 2 : Brunswick\_87
- Track 3 : Teacup\_83
- Track 4 : Trustiboi\_84
- Track 5 : AreFloNak\_91
- Track 6 : Breylor17\_79
- Track 7 : ScienceWizSam\_88
- Track 8 : Gordon\_81
- Track 9 : DevitoJr\_86
- Track 10 : Synopsis\_79
- Track 11 : Issa\_82
- Track 12 : Niktson\_85, ElephantMan\_85
- Track 13 : MiniBagel\_84
- Track 14 : Nivinsha\_87
- Track 15 : Nightmare\_86
- Track 16 : CastorTray\_88
- Track 17 : Caterpillar\_80

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

The start number called the most often in the published annotations is 6, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak\_91, Breylor17\_79, Brunswick\_87, CapnMurica\_80, CastorTray\_88, Caterpillar\_80, DevitoJr\_86, ElephantMan\_85, Gordon\_81, Issa\_82, MiniBagel\_84, Nightmare\_86, Niktson\_85, Nivinsha\_87, ScienceWizSam\_88, Synopsis\_79, Teacup\_83, Tenno\_84, Trustiboi\_84,

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 6:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak\_91 (AU1), Breylor17\_79 (AU1), Brunswick\_87 (AU1), CapnMurica\_80 (AU1), CastorTray\_88 (AU1), Caterpillar\_80 (AU4), DevitoJr\_86 (AU1), ElephantMan\_85 (AU1), Gordon\_81 (AU1), Issa\_82 (AU1), MiniBagel\_84 (AU1), Nightmare\_86 (AU1), Niktson\_85 (AU1), Nivinsha\_87 (AU1), ScienceWizSam\_88 (AU1), Synepsis\_79 (AU1), Teacup\_83 (AU1), Tenno\_84 (AU1), Trustiboi\_84 (AU1),

## Summary by clusters:

There are 2 clusters represented in this pham: AU1, AU4,

Info for manual annotations of cluster AU1:

- Start number 6 was manually annotated 15 times for cluster AU1.

Info for manual annotations of cluster AU4:

- Start number 6 was manually annotated 1 time for cluster AU4.

## Gene Information:

Gene: AreFloNak\_91 Start: 53020, Stop: 53265, Start Num: 6

Candidate Starts for AreFloNak\_91:

(3, 52996), (Start: 6 @53020 has 16 MA's), (10, 53086), (15, 53176), (16, 53179), (18, 53197),

Gene: Breylor17\_79 Start: 52786, Stop: 53028, Start Num: 6

Candidate Starts for Breylor17\_79:

(Start: 6 @52786 has 16 MA's), (7, 52810), (8, 52837), (10, 52852), (15, 52939), (16, 52942), (17, 52951), (18, 52960),

Gene: Brunswick\_87 Start: 52853, Stop: 53098, Start Num: 6

Candidate Starts for Brunswick\_87:

(Start: 6 @52853 has 16 MA's), (8, 52904), (10, 52919), (16, 53012),

Gene: CapnMurica\_80 Start: 52975, Stop: 53220, Start Num: 6

Candidate Starts for CapnMurica\_80:

(Start: 6 @52975 has 16 MA's), (10, 53041), (12, 53089), (15, 53131), (16, 53134), (21, 53209),

Gene: CastorTray\_88 Start: 53338, Stop: 53580, Start Num: 6

Candidate Starts for CastorTray\_88:

(4, 53326), (Start: 6 @53338 has 16 MA's), (10, 53404), (15, 53491), (16, 53494), (17, 53503), (18, 53512),

Gene: Caterpillar\_80 Start: 51328, Stop: 51573, Start Num: 6

Candidate Starts for Caterpillar\_80:

(Start: 6 @51328 has 16 MA's), (10, 51394), (18, 51505), (19, 51520), (21, 51562),

Gene: DevitoJr\_86 Start: 52897, Stop: 53139, Start Num: 6  
Candidate Starts for DevitoJr\_86:  
(3, 52873), (Start: 6 @52897 has 16 MA's), (10, 52963), (15, 53050), (16, 53053), (17, 53062), (18, 53071),

Gene: ElephantMan\_85 Start: 53383, Stop: 53628, Start Num: 6  
Candidate Starts for ElephantMan\_85:  
(Start: 6 @53383 has 16 MA's), (8, 53434), (10, 53449), (16, 53542), (21, 53617),

Gene: Gordon\_81 Start: 53106, Stop: 53360, Start Num: 6  
Candidate Starts for Gordon\_81:  
(2, 53049), (Start: 6 @53106 has 16 MA's), (10, 53172), (14, 53235), (15, 53262), (16, 53265), (18, 53283), (19, 53298), (20, 53337),

Gene: Issa\_82 Start: 52041, Stop: 52286, Start Num: 6  
Candidate Starts for Issa\_82:  
(Start: 6 @52041 has 16 MA's), (8, 52092), (10, 52107), (12, 52155), (15, 52197), (16, 52200), (21, 52275),

Gene: MiniBagel\_84 Start: 52801, Stop: 53046, Start Num: 6  
Candidate Starts for MiniBagel\_84:  
(1, 52720), (Start: 6 @52801 has 16 MA's), (10, 52867), (11, 52903), (12, 52915), (15, 52957), (16, 52960), (21, 53035),

Gene: Nightmare\_86 Start: 53676, Stop: 53924, Start Num: 6  
Candidate Starts for Nightmare\_86:  
(Start: 6 @53676 has 16 MA's), (9, 53730), (10, 53742), (14, 53805), (15, 53832), (16, 53835), (17, 53844), (18, 53853), (19, 53868),

Gene: Niktson\_85 Start: 53383, Stop: 53628, Start Num: 6  
Candidate Starts for Niktson\_85:  
(Start: 6 @53383 has 16 MA's), (8, 53434), (10, 53449), (16, 53542), (21, 53617),

Gene: Nivinsha\_87 Start: 53024, Stop: 53269, Start Num: 6  
Candidate Starts for Nivinsha\_87:  
(3, 53003), (Start: 6 @53024 has 16 MA's), (10, 53090), (15, 53180), (16, 53183), (18, 53201),

Gene: ScienceWizSam\_88 Start: 53067, Stop: 53312, Start Num: 6  
Candidate Starts for ScienceWizSam\_88:  
(3, 53046), (Start: 6 @53067 has 16 MA's), (8, 53118), (10, 53133), (13, 53184), (14, 53196), (15, 53223), (16, 53226), (18, 53244), (19, 53259),

Gene: Synopsis\_79 Start: 52500, Stop: 52742, Start Num: 6  
Candidate Starts for Synopsis\_79:  
(Start: 6 @52500 has 16 MA's), (10, 52566), (15, 52653), (16, 52656), (17, 52665), (18, 52674),

Gene: Teacup\_83 Start: 53119, Stop: 53364, Start Num: 6  
Candidate Starts for Teacup\_83:  
(Start: 6 @53119 has 16 MA's), (8, 53170), (10, 53185), (13, 53236), (15, 53275), (16, 53278), (21, 53353),

Gene: Tenno\_84 Start: 53009, Stop: 53254, Start Num: 6

Candidate Starts for Tenno\_84:

(Start: 6 @53009 has 16 MA's), (10, 53075), (12, 53123), (15, 53165), (16, 53168), (21, 53243),

Gene: Trustiboi\_84 Start: 53082, Stop: 53324, Start Num: 6

Candidate Starts for Trustiboi\_84:

(5, 53079), (Start: 6 @53082 has 16 MA's), (10, 53148), (11, 53184), (15, 53235), (16, 53238), (18, 53256),