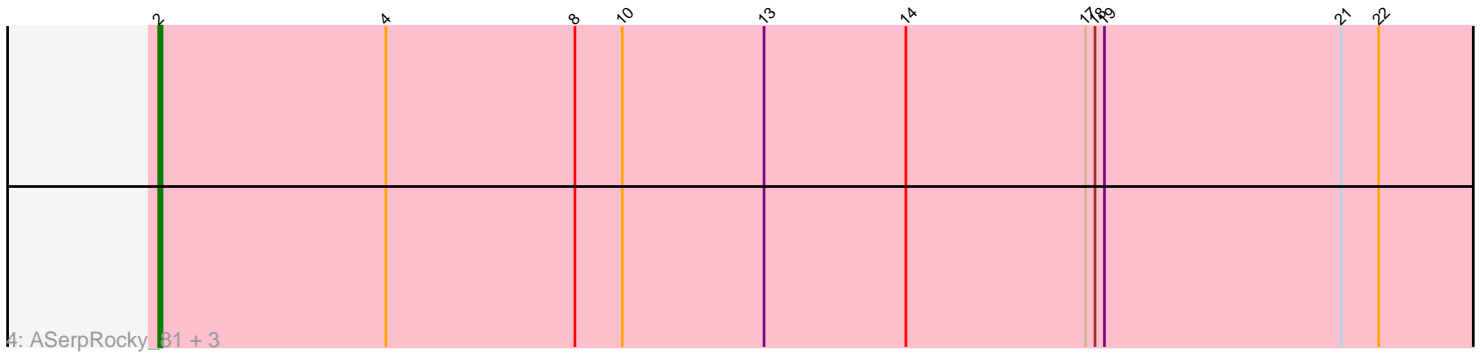
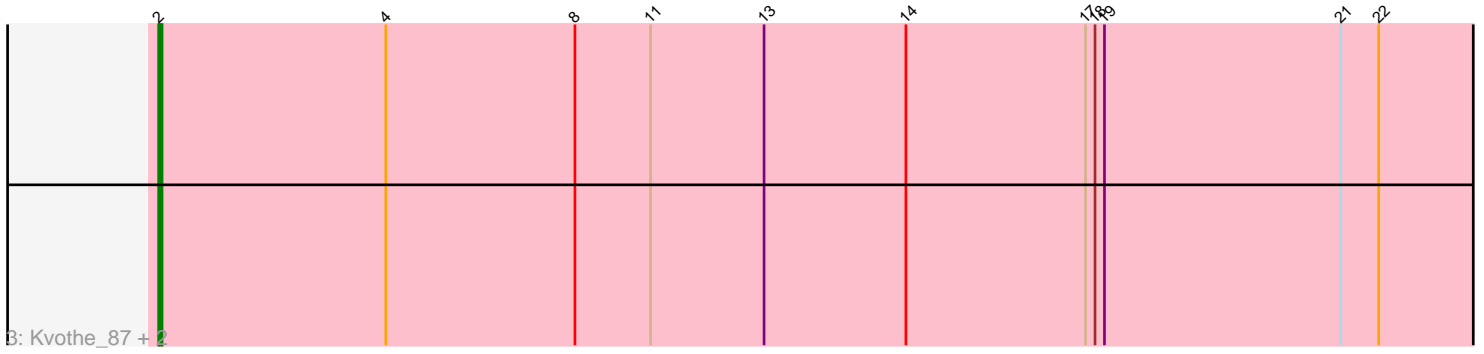
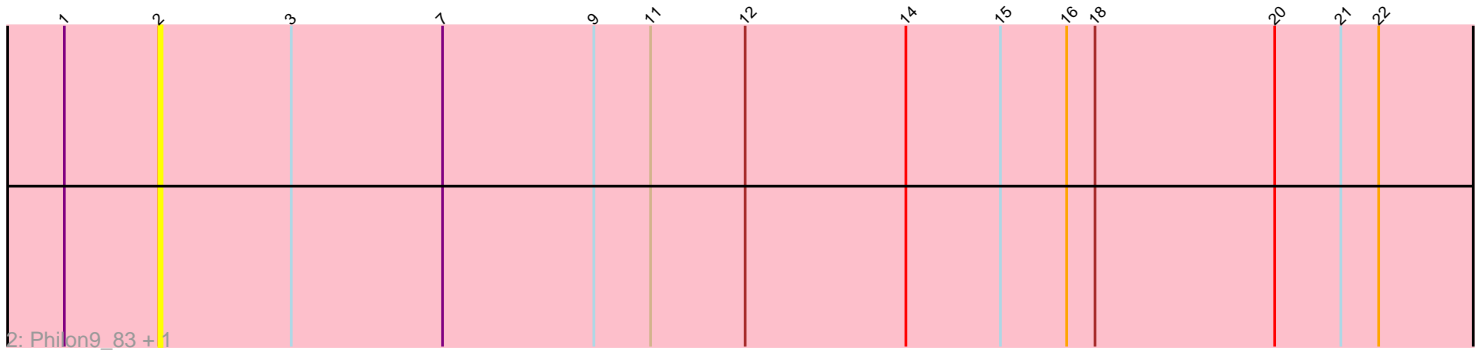
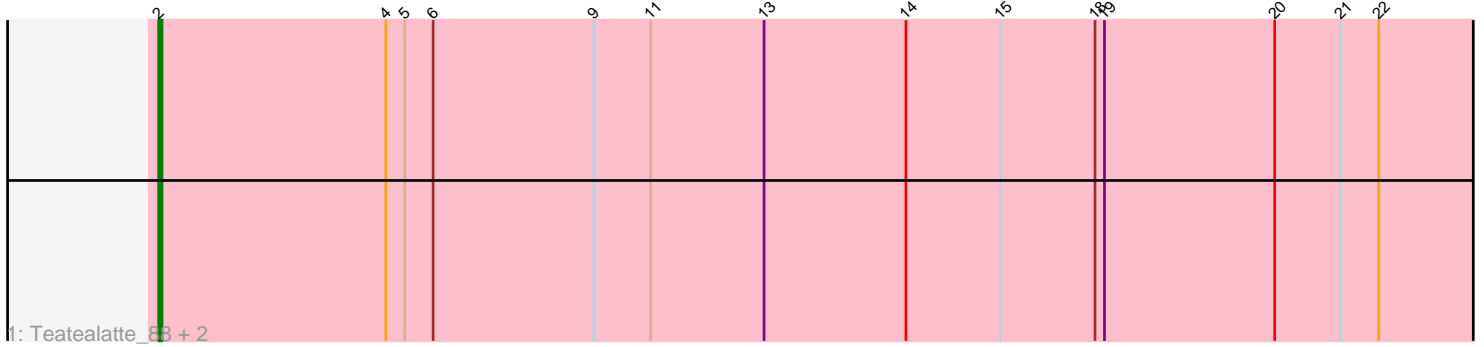


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 221939 Report

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

Pham number 221939 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Teatealatte\_88, Niagara\_87, Tredge\_87
- Track 2 : Philon9\_83, Vitaenoi\_83
- Track 3 : Kvothe\_87, Teech\_85, Hollow\_87
- Track 4 : ASerpRocky\_81, Demosthenes\_81, Benczkowski14\_88, Katyusha\_86

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

The start number called the most often in the published annotations is 2, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASerpRocky\_81, Benczkowski14\_88, Demosthenes\_81, Hollow\_87, Katyusha\_86, Kvothe\_87, Niagara\_87, Philon9\_83, Teatealatte\_88, Teech\_85, Tredge\_87, Vitaenoi\_83,

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 2:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky\_81 (CS4), Benczkowski14\_88 (CS4), Demosthenes\_81 (CS4), Hollow\_87 (CS4), Katyusha\_86 (CS4), Kvothe\_87 (CS4), Niagara\_87 (CS4), Philon9\_83 (CS4), Teatealatte\_88 (CS4), Teech\_85 (CS4), Tredge\_87 (CS4), Vitaenoi\_83 (CS4),

### **Summary by clusters:**

There is one cluster represented in this pham: CS4

Info for manual annotations of cluster CS4:

•Start number 2 was manually annotated 9 times for cluster CS4.

**Gene Information:**

Gene: ASerpRocky\_81 Start: 67672, Stop: 67214, Start Num: 2

Candidate Starts for ASerpRocky\_81:

(Start: 2 @67672 has 9 MA's), (4, 67600), (8, 67540), (10, 67525), (13, 67480), (14, 67435), (17, 67378), (18, 67375), (19, 67372), (21, 67297), (22, 67285),

Gene: Benczkowski14\_88 Start: 69205, Stop: 68747, Start Num: 2

Candidate Starts for Benczkowski14\_88:

(Start: 2 @69205 has 9 MA's), (4, 69133), (8, 69073), (10, 69058), (13, 69013), (14, 68968), (17, 68911), (18, 68908), (19, 68905), (21, 68830), (22, 68818),

Gene: Demosthenes\_81 Start: 67538, Stop: 67080, Start Num: 2

Candidate Starts for Demosthenes\_81:

(Start: 2 @67538 has 9 MA's), (4, 67466), (8, 67406), (10, 67391), (13, 67346), (14, 67301), (17, 67244), (18, 67241), (19, 67238), (21, 67163), (22, 67151),

Gene: Hollow\_87 Start: 69016, Stop: 68558, Start Num: 2

Candidate Starts for Hollow\_87:

(Start: 2 @69016 has 9 MA's), (4, 68944), (8, 68884), (11, 68860), (13, 68824), (14, 68779), (17, 68722), (18, 68719), (19, 68716), (21, 68641), (22, 68629),

Gene: Katyusha\_86 Start: 69205, Stop: 68747, Start Num: 2

Candidate Starts for Katyusha\_86:

(Start: 2 @69205 has 9 MA's), (4, 69133), (8, 69073), (10, 69058), (13, 69013), (14, 68968), (17, 68911), (18, 68908), (19, 68905), (21, 68830), (22, 68818),

Gene: Kvothe\_87 Start: 69214, Stop: 68756, Start Num: 2

Candidate Starts for Kvothe\_87:

(Start: 2 @69214 has 9 MA's), (4, 69142), (8, 69082), (11, 69058), (13, 69022), (14, 68977), (17, 68920), (18, 68917), (19, 68914), (21, 68839), (22, 68827),

Gene: Niagara\_87 Start: 69138, Stop: 68680, Start Num: 2

Candidate Starts for Niagara\_87:

(Start: 2 @69138 has 9 MA's), (4, 69066), (5, 69060), (6, 69051), (9, 69000), (11, 68982), (13, 68946), (14, 68901), (15, 68871), (18, 68841), (19, 68838), (20, 68784), (21, 68763), (22, 68751),

Gene: Philon9\_83 Start: 69156, Stop: 68698, Start Num: 2

Candidate Starts for Philon9\_83:

(1, 69186), (Start: 2 @69156 has 9 MA's), (3, 69114), (7, 69066), (9, 69018), (11, 69000), (12, 68970), (14, 68919), (15, 68889), (16, 68868), (18, 68859), (20, 68802), (21, 68781), (22, 68769),

Gene: Teatealatte\_88 Start: 69221, Stop: 68763, Start Num: 2

Candidate Starts for Teatealatte\_88:

(Start: 2 @69221 has 9 MA's), (4, 69149), (5, 69143), (6, 69134), (9, 69083), (11, 69065), (13, 69029), (14, 68984), (15, 68954), (18, 68924), (19, 68921), (20, 68867), (21, 68846), (22, 68834),

Gene: Teech\_85 Start: 68851, Stop: 68393, Start Num: 2

Candidate Starts for Teech\_85:

(Start: 2 @68851 has 9 MA's), (4, 68779), (8, 68719), (11, 68695), (13, 68659), (14, 68614), (17, 68557), (18, 68554), (19, 68551), (21, 68476), (22, 68464),

Gene: Tredge\_87 Start: 69221, Stop: 68763, Start Num: 2

Candidate Starts for Tredge\_87:

(Start: 2 @69221 has 9 MA's), (4, 69149), (5, 69143), (6, 69134), (9, 69083), (11, 69065), (13, 69029), (14, 68984), (15, 68954), (18, 68924), (19, 68921), (20, 68867), (21, 68846), (22, 68834),

Gene: Vitaenoi\_83 Start: 69140, Stop: 68682, Start Num: 2

Candidate Starts for Vitaenoi\_83:

(1, 69170), (Start: 2 @69140 has 9 MA's), (3, 69098), (7, 69050), (9, 69002), (11, 68984), (12, 68954), (14, 68903), (15, 68873), (16, 68852), (18, 68843), (20, 68786), (21, 68765), (22, 68753),