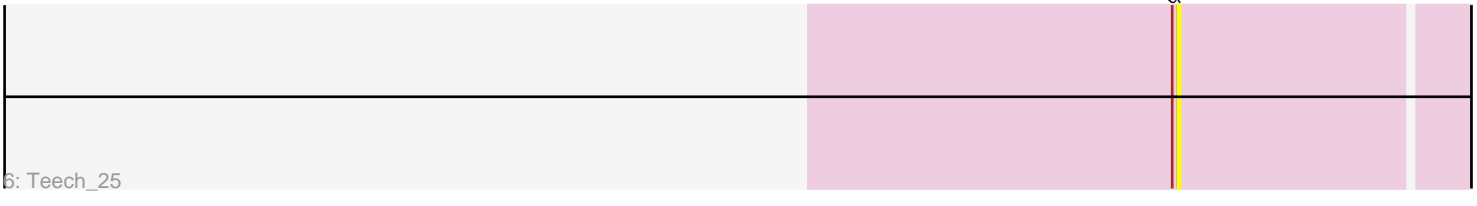
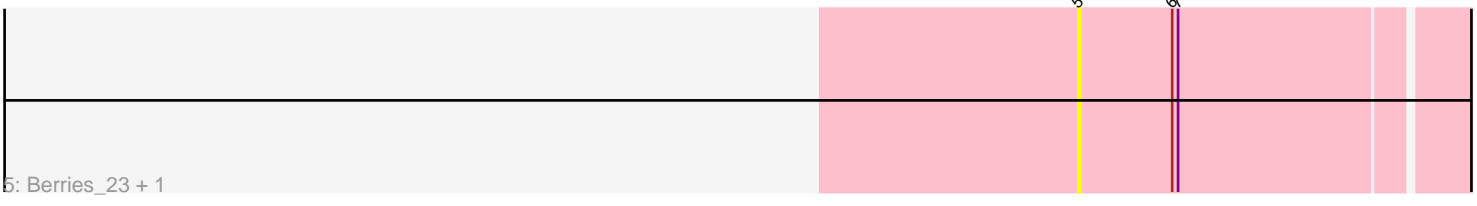
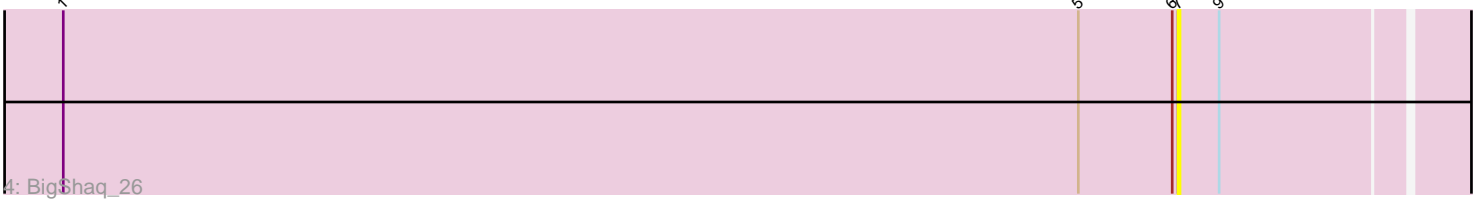
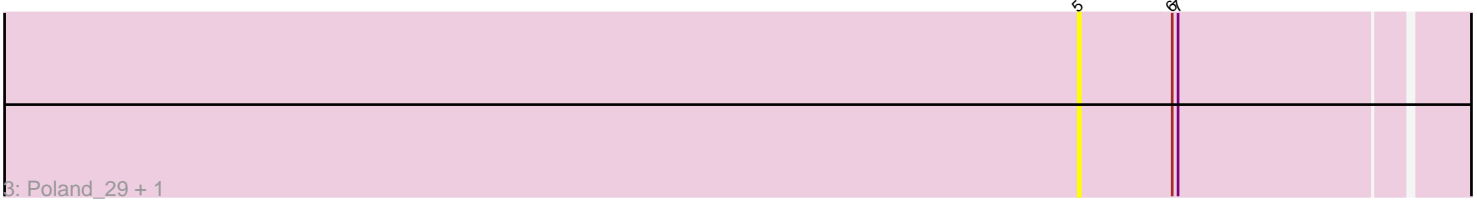
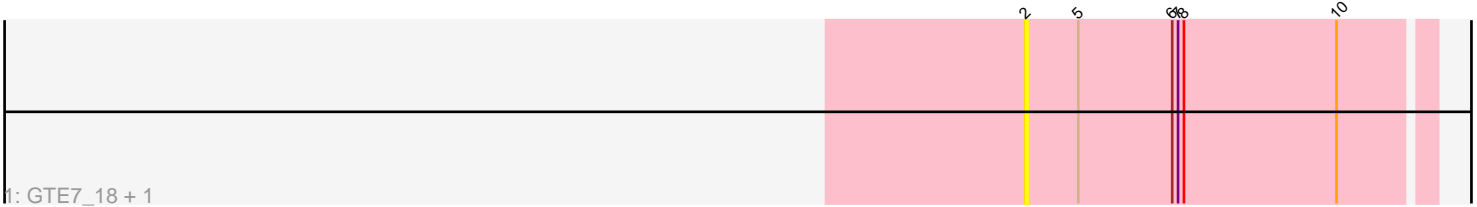


Pham 87990



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 87990 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87990 has 10 members, 9 are drafts.

Phages represented in each track:

- Track 1 : GTE7\_18, HayZem\_27
- Track 2 : BenoitCattle\_27
- Track 3 : Poland\_29, Barbochs\_26
- Track 4 : BigShaq\_26
- Track 5 : Berries\_23, Kaseim\_23
- Track 6 : Teech\_25
- Track 7 : Camerico\_23

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

The start number called the most often in the published annotations is 3, it was called in 1 of the 1 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Camerico\_23,

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

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

- Barbochs\_26, BenoitCattle\_27, Berries\_23, BigShaq\_26, GTE7\_18, HayZem\_27, Kaseim\_23, Poland\_29, Teech\_25,

### **Summary by start number:**

Start 2:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GTE7\_18 (CS1), HayZem\_27 (CS1),

Start 3:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 1

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camerico\_23 (DF),

Start 5:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Barbochs\_26 (CS2), BenoitCattle\_27 (CS2), Berries\_23 (CS3), Kaseim\_23 (CS3), Poland\_29 (CS2),

Start 7:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: BigShaq\_26 (CS2), Teech\_25 (CS4),

### **Summary by clusters:**

There are 5 clusters represented in this pham: DF, CS4, CS1, CS3, CS2,

Info for manual annotations of cluster DF:

- Start number 3 was manually annotated 1 time for cluster DF.

### **Gene Information:**

Gene: Barbochs\_26 Start: 20043, Stop: 20237, Start Num: 5

Candidate Starts for Barbochs\_26:

(5, 20043), (6, 20091), (7, 20094),

Gene: BenoitCattle\_27 Start: 20074, Stop: 20268, Start Num: 5

Candidate Starts for BenoitCattle\_27:

(1, 19555), (5, 20074), (6, 20122), (7, 20125), (9, 20146),

Gene: Berries\_23 Start: 21029, Stop: 21223, Start Num: 5

Candidate Starts for Berries\_23:

(5, 21029), (6, 21077), (7, 21080),

Gene: BigShaq\_26 Start: 20112, Stop: 20255, Start Num: 7

Candidate Starts for BigShaq\_26:

(1, 19542), (5, 20061), (6, 20109), (7, 20112), (9, 20133),

Gene: Camerico\_23 Start: 19351, Stop: 19566, Start Num: 3

Candidate Starts for Camerico\_23:

(Start: 3 @19351 has 1 MA's), (4, 19354), (5, 19366), (7, 19417), (11, 19525), (12, 19537),

Gene: GTE7\_18 Start: 14193, Stop: 14396, Start Num: 2

Candidate Starts for GTE7\_18:

(2, 14193), (5, 14220), (6, 14268), (7, 14271), (8, 14274), (10, 14352),

Gene: HayZem\_27 Start: 19945, Stop: 20148, Start Num: 2

Candidate Starts for HayZem\_27:

(2, 19945), (5, 19972), (6, 20020), (7, 20023), (8, 20026), (10, 20104),

Gene: Kaseim\_23 Start: 20214, Stop: 20408, Start Num: 5

Candidate Starts for Kaseim\_23:

(5, 20214), (6, 20262), (7, 20265),

Gene: Poland\_29 Start: 20214, Stop: 20408, Start Num: 5

Candidate Starts for Poland\_29:

(5, 20214), (6, 20262), (7, 20265),

Gene: Teech\_25 Start: 22406, Stop: 22555, Start Num: 7

Candidate Starts for Teech\_25:

(6, 22403), (7, 22406),