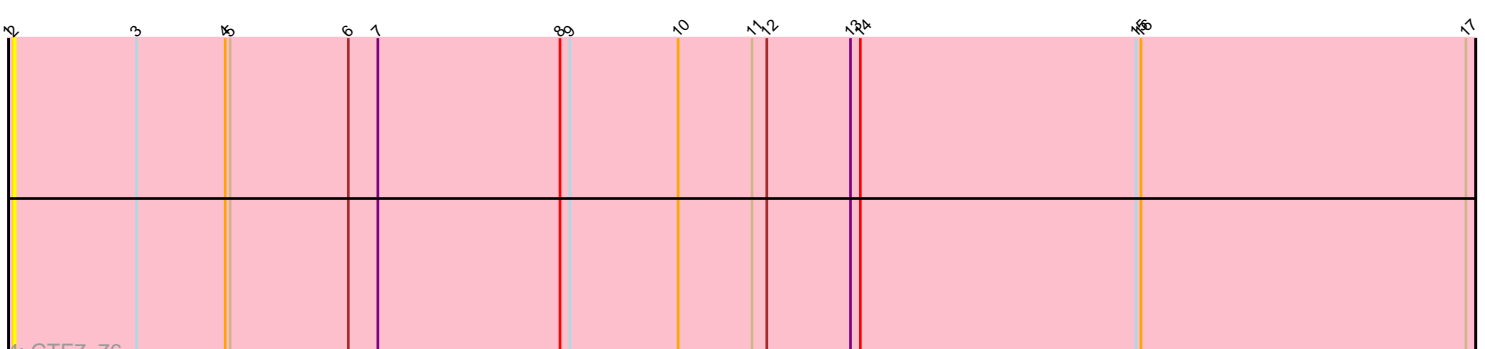
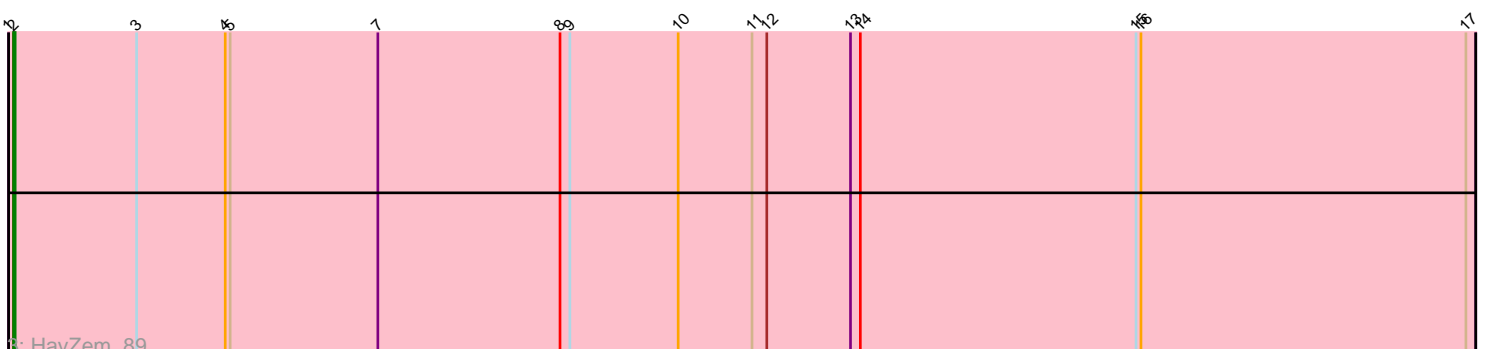
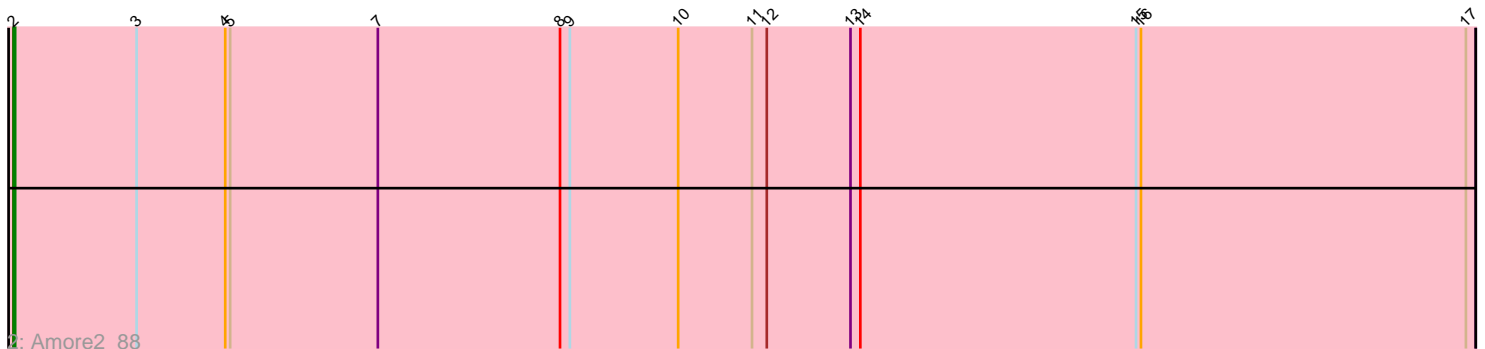
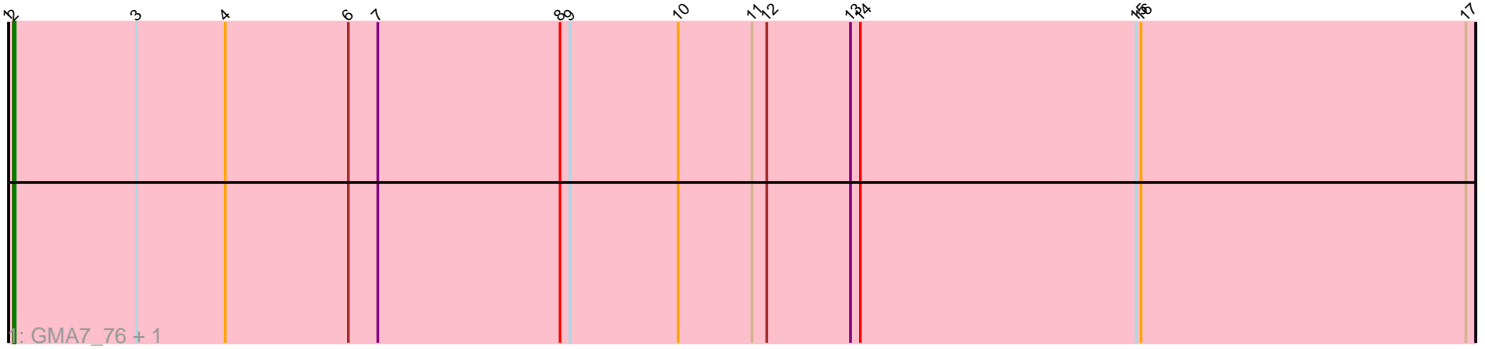


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 172138 Report

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

Pham number 172138 has 5 members, 2 are drafts.

Phages represented in each track:

- Track 1 : GMA7\_76, Austin\_87
- Track 2 : Amore2\_88
- Track 3 : HayZem\_89
- Track 4 : GTE7\_76

### ***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 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amore2\_88, Austin\_87, GMA7\_76, GTE7\_76, HayZem\_89,

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 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 3
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amore2\_88 (CS1), Austin\_87 (CS1), GMA7\_76 (CS1), GTE7\_76 (CS1), HayZem\_89 (CS1),

### **Summary by clusters:**

There is one cluster represented in this pham: CS1

Info for manual annotations of cluster CS1:

- Start number 2 was manually annotated 3 times for cluster CS1.

**Gene Information:**

Gene: Amore2\_88 Start: 67704, Stop: 66814, Start Num: 2

Candidate Starts for Amore2\_88:

(Start: 2 @67704 has 3 MA's), (3, 67629), (4, 67575), (5, 67572), (7, 67482), (8, 67371), (9, 67365), (10, 67299), (11, 67254), (12, 67245), (13, 67194), (14, 67188), (15, 67020), (16, 67017), (17, 66819),

Gene: Austin\_87 Start: 67702, Stop: 66812, Start Num: 2

Candidate Starts for Austin\_87:

(1, 67705), (Start: 2 @67702 has 3 MA's), (3, 67627), (4, 67573), (6, 67498), (7, 67480), (8, 67369), (9, 67363), (10, 67297), (11, 67252), (12, 67243), (13, 67192), (14, 67186), (15, 67018), (16, 67015), (17, 66817),

Gene: GMA7\_76 Start: 61589, Stop: 60699, Start Num: 2

Candidate Starts for GMA7\_76:

(1, 61592), (Start: 2 @61589 has 3 MA's), (3, 61514), (4, 61460), (6, 61385), (7, 61367), (8, 61256), (9, 61250), (10, 61184), (11, 61139), (12, 61130), (13, 61079), (14, 61073), (15, 60905), (16, 60902), (17, 60704),

Gene: GTE7\_76 Start: 62155, Stop: 61265, Start Num: 2

Candidate Starts for GTE7\_76:

(1, 62158), (Start: 2 @62155 has 3 MA's), (3, 62080), (4, 62026), (5, 62023), (6, 61951), (7, 61933), (8, 61822), (9, 61816), (10, 61750), (11, 61705), (12, 61696), (13, 61645), (14, 61639), (15, 61471), (16, 61468), (17, 61270),

Gene: HayZem\_89 Start: 67702, Stop: 66812, Start Num: 2

Candidate Starts for HayZem\_89:

(1, 67705), (Start: 2 @67702 has 3 MA's), (3, 67627), (4, 67573), (5, 67570), (7, 67480), (8, 67369), (9, 67363), (10, 67297), (11, 67252), (12, 67243), (13, 67192), (14, 67186), (15, 67018), (16, 67015), (17, 66817),