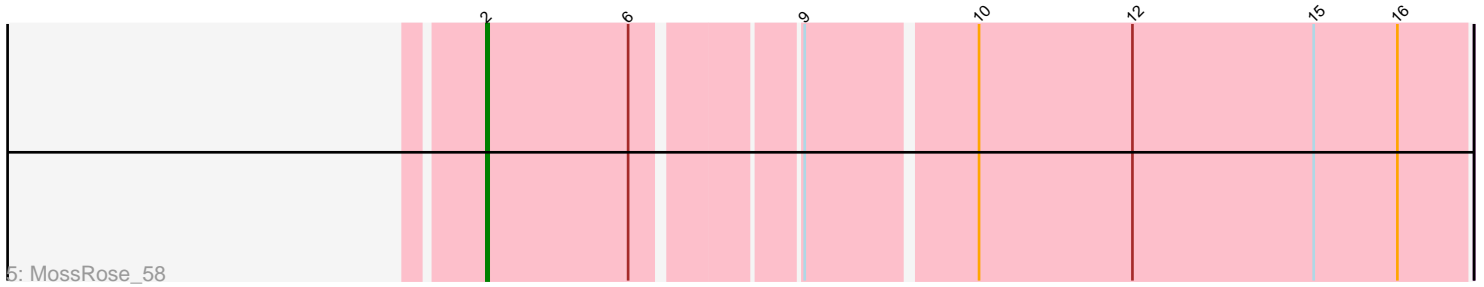
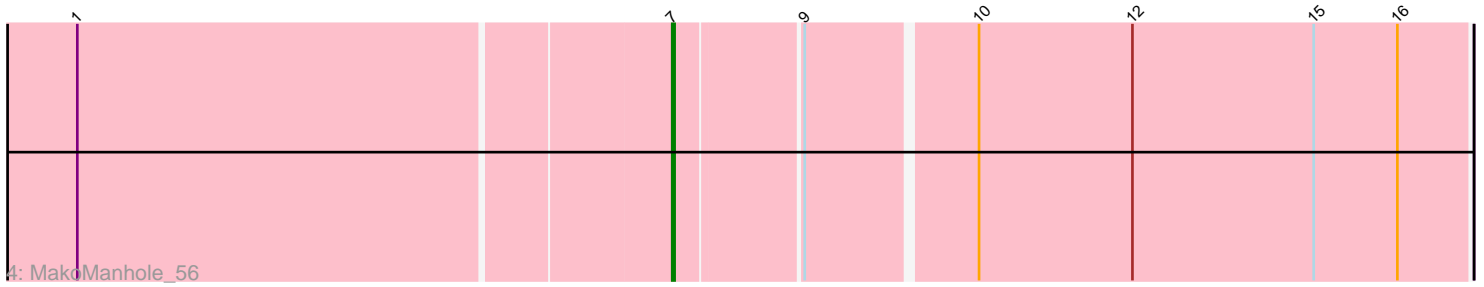
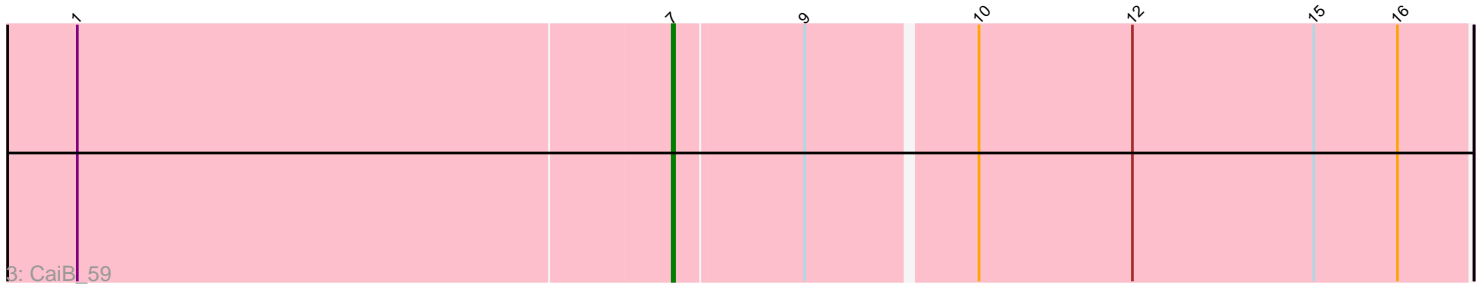
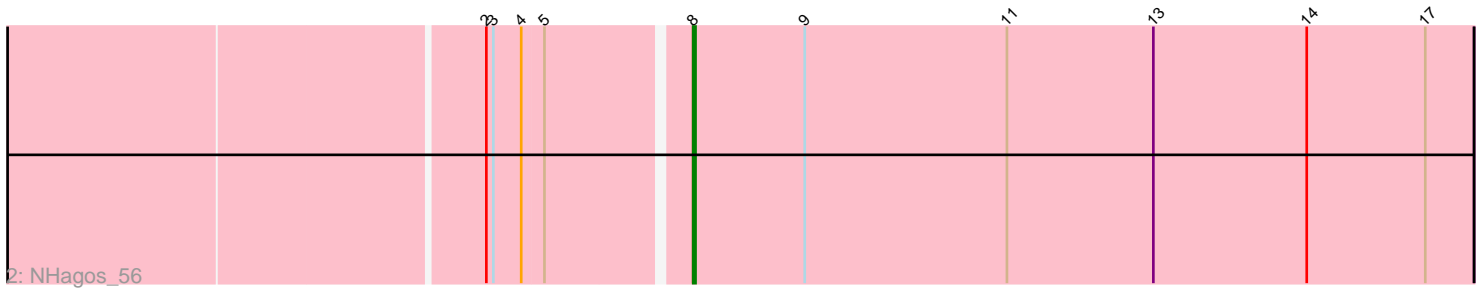
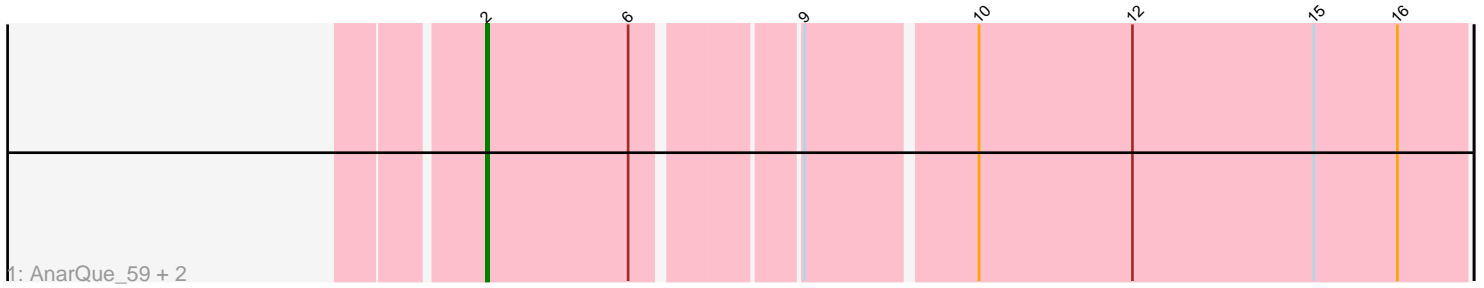


Pham 179660



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 179660 Report

This analysis was run 11/02/24 on database version 579.

Pham number 179660 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : AnarQue\_59, Wooper\_59, CloverMinnie\_58
- Track 2 : NHagos\_56
- Track 3 : CaiB\_59
- Track 4 : MakoManhole\_56
- Track 5 : MossRose\_58

### ***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 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnarQue\_59, CloverMinnie\_58, MossRose\_58, Wooper\_59,

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

- NHagos\_56,

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

- CaiB\_59, MakoManhole\_56,

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

Start 2:

- Found in 5 of 7 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 80.0% of time when present
- Phage (with cluster) where this start called: AnarQue\_59 (DR), CloverMinnie\_58 (DR), MossRose\_58 (DR), Wooper\_59 (DR),

Start 7:

- Found in 2 of 7 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CaiB\_59 (DR), MakoManhole\_56 (DR),

Start 8:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NHagos\_56 (DR),

### **Summary by clusters:**

There is one cluster represented in this pham: DR

Info for manual annotations of cluster DR:

- Start number 2 was manually annotated 4 times for cluster DR.
- Start number 7 was manually annotated 2 times for cluster DR.
- Start number 8 was manually annotated 1 time for cluster DR.

### **Gene Information:**

Gene: AnarQue\_59 Start: 50192, Stop: 49791, Start Num: 2

Candidate Starts for AnarQue\_59:

(Start: 2 @50192 has 4 MA's), (6, 50132), (9, 50069), (10, 50000), (12, 49934), (15, 49856), (16, 49820),

Gene: CaiB\_59 Start: 50677, Stop: 50345, Start Num: 7

Candidate Starts for CaiB\_59:

(1, 50929), (Start: 7 @50677 has 2 MA's), (9, 50623), (10, 50554), (12, 50488), (15, 50410), (16, 50374),

Gene: CloverMinnie\_58 Start: 49778, Stop: 49377, Start Num: 2

Candidate Starts for CloverMinnie\_58:

(Start: 2 @49778 has 4 MA's), (6, 49718), (9, 49655), (10, 49586), (12, 49520), (15, 49442), (16, 49406),

Gene: MakoManhole\_56 Start: 49198, Stop: 48869, Start Num: 7

Candidate Starts for MakoManhole\_56:

(1, 49447), (Start: 7 @49198 has 2 MA's), (9, 49147), (10, 49078), (12, 49012), (15, 48934), (16, 48898),

Gene: MossRose\_58 Start: 49823, Stop: 49422, Start Num: 2

Candidate Starts for MossRose\_58:

(Start: 2 @49823 has 4 MA's), (6, 49763), (9, 49700), (10, 49631), (12, 49565), (15, 49487), (16, 49451),

Gene: NHagos\_56 Start: 48117, Stop: 47782, Start Num: 8

Candidate Starts for NHagos\_56:

(Start: 2 @48198 has 4 MA's), (3, 48195), (4, 48183), (5, 48174), (Start: 8 @48117 has 1 MA's), (9, 48069), (11, 47982), (13, 47919), (14, 47853), (17, 47802),

Gene: Wooper\_59 Start: 50164, Stop: 49763, Start Num: 2

Candidate Starts for Wooper\_59:

(Start: 2 @50164 has 4 MA's), (6, 50104), (9, 50041), (10, 49972), (12, 49906), (15, 49828), (16, 49792),