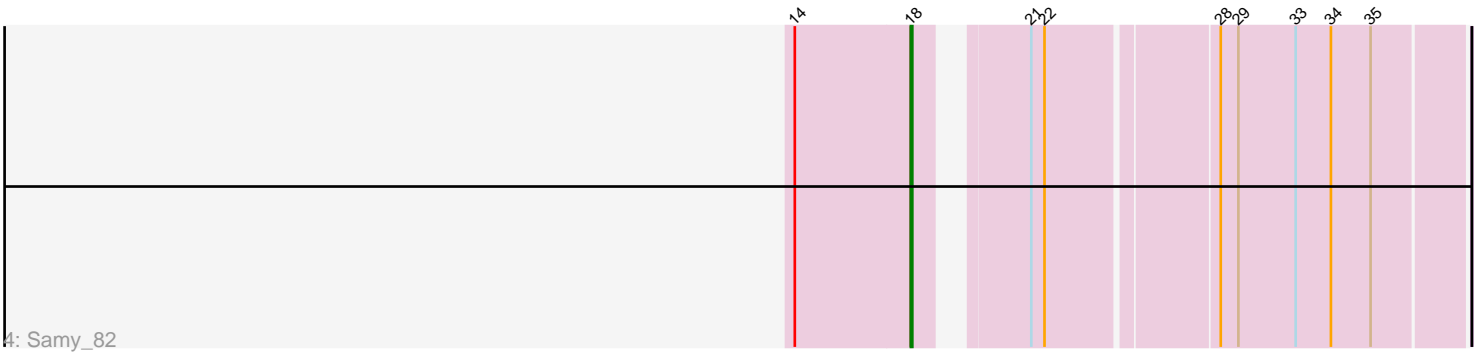
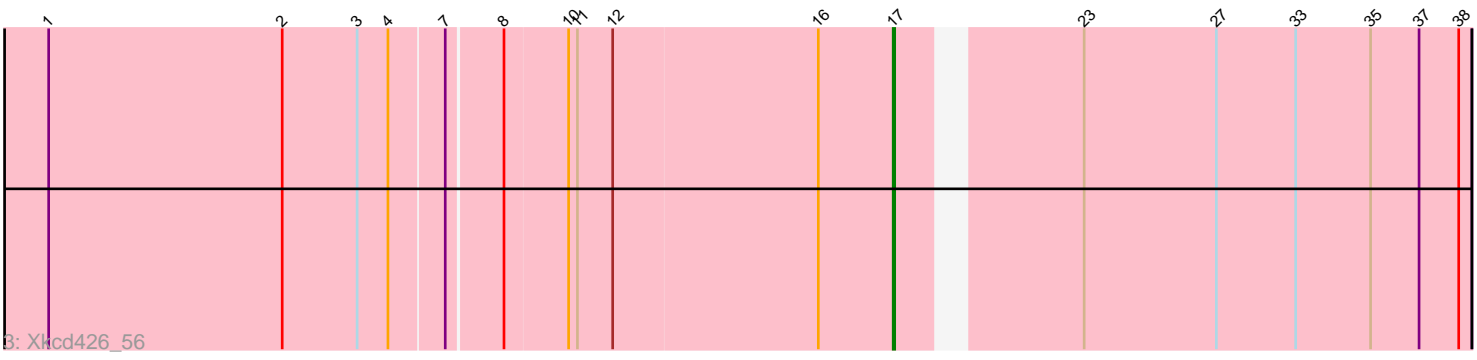
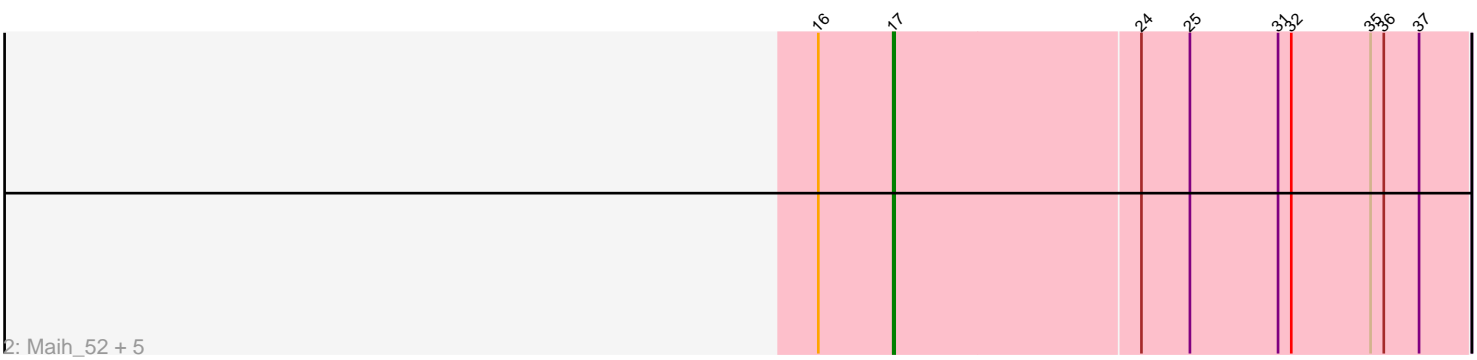
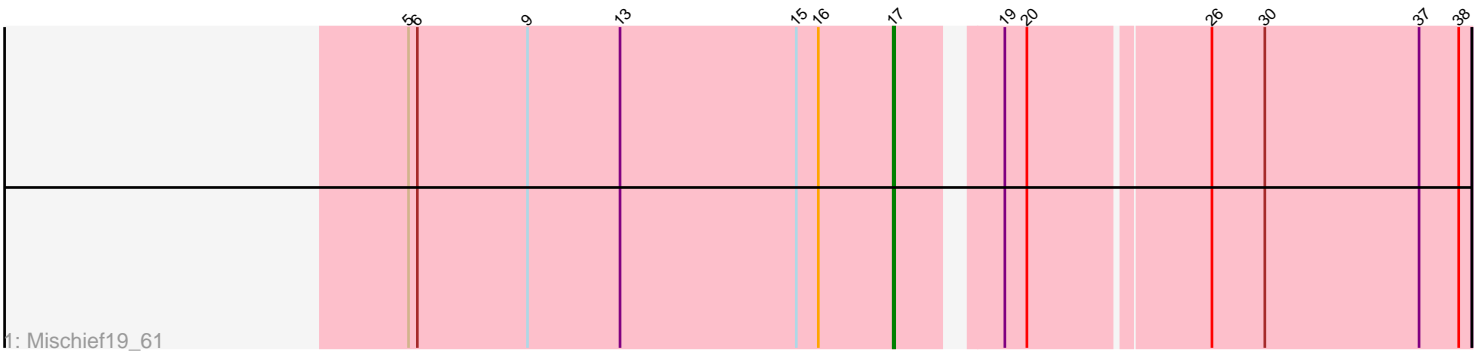


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 6251 Report

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

Pham number 6251 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Mischief19\_61
- Track 2 : Maih\_52, TP1604\_53, Asis\_53, BabyGotBac\_54, BayC\_53, Salete\_53
- Track 3 : Xkcd426\_56
- Track 4 : Samy\_82

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

The start number called the most often in the published annotations is 17, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asis\_53, BabyGotBac\_54, BayC\_53, Maih\_52, Mischief19\_61, Salete\_53, TP1604\_53, Xkcd426\_56,

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

- 

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

- Samy\_82,

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

Start 17:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asis\_53 (BG), BabyGotBac\_54 (BG), BayC\_53 (BG), Maih\_52 (BG), Mischief19\_61 (BG), Salete\_53 (BG), TP1604\_53 (BG), Xkcd426\_56 (BG),

Start 18:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Samy\_82 (singleton),

### **Summary by clusters:**

There are 2 clusters represented in this pham: singleton, BG,

Info for manual annotations of cluster BG:

- Start number 17 was manually annotated 8 times for cluster BG.

### **Gene Information:**

Gene: Asis\_53 Start: 44187, Stop: 44555, Start Num: 17

Candidate Starts for Asis\_53:

(16, 44136), (Start: 17 @44187 has 8 MA's), (24, 44334), (25, 44367), (31, 44427), (32, 44436), (35, 44490), (36, 44499), (37, 44523),

Gene: BabyGotBac\_54 Start: 44199, Stop: 44561, Start Num: 17

Candidate Starts for BabyGotBac\_54:

(16, 44148), (Start: 17 @44199 has 8 MA's), (24, 44340), (25, 44373), (31, 44433), (32, 44442), (35, 44496), (36, 44505), (37, 44529),

Gene: BayC\_53 Start: 44185, Stop: 44559, Start Num: 17

Candidate Starts for BayC\_53:

(16, 44134), (Start: 17 @44185 has 8 MA's), (24, 44338), (25, 44371), (31, 44431), (32, 44440), (35, 44494), (36, 44503), (37, 44527),

Gene: Maih\_52 Start: 44186, Stop: 44572, Start Num: 17

Candidate Starts for Maih\_52:

(16, 44135), (Start: 17 @44186 has 8 MA's), (24, 44351), (25, 44384), (31, 44444), (32, 44453), (35, 44507), (36, 44516), (37, 44540),

Gene: Mischief19\_61 Start: 54476, Stop: 54841, Start Num: 17

Candidate Starts for Mischief19\_61:

(5, 54146), (6, 54152), (9, 54227), (13, 54290), (15, 54410), (16, 54425), (Start: 17 @54476 has 8 MA's), (19, 54533), (20, 54548), (26, 54665), (30, 54701), (37, 54806), (38, 54833),

Gene: Salete\_53 Start: 44185, Stop: 44559, Start Num: 17

Candidate Starts for Salete\_53:

(16, 44134), (Start: 17 @44185 has 8 MA's), (24, 44338), (25, 44371), (31, 44431), (32, 44440), (35, 44494), (36, 44503), (37, 44527),

Gene: Samy\_82 Start: 51632, Stop: 51967, Start Num: 18

Candidate Starts for Samy\_82:

(14, 51554), (Start: 18 @51632 has 1 MA's), (21, 51689), (22, 51698), (28, 51806), (29, 51818), (33, 51857), (34, 51881), (35, 51908),

Gene: TP1604\_53 Start: 44202, Stop: 44564, Start Num: 17

Candidate Starts for TP1604\_53:

(16, 44151), (Start: 17 @44202 has 8 MA's), (24, 44343), (25, 44376), (31, 44436), (32, 44445), (35, 44499), (36, 44508), (37, 44532),

Gene: Xkcd426\_56 Start: 49965, Stop: 50333, Start Num: 17

Candidate Starts for Xkcd426\_56:

(1, 49401), (2, 49560), (3, 49611), (4, 49632), (7, 49668), (8, 49704), (10, 49746), (11, 49752), (12, 49776), (16, 49914), (Start: 17 @49965 has 8 MA's), (23, 50070), (27, 50160), (33, 50214), (35, 50265), (37, 50298), (38, 50325),