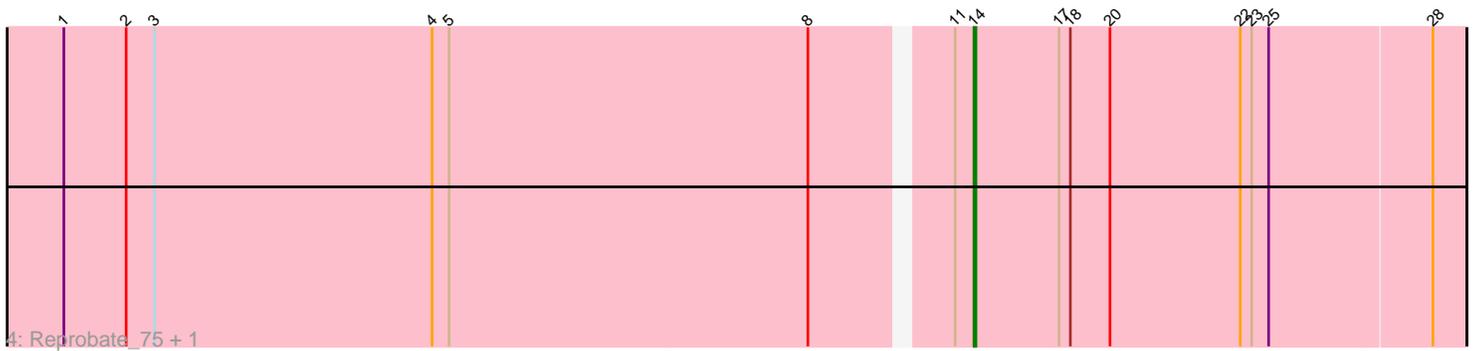
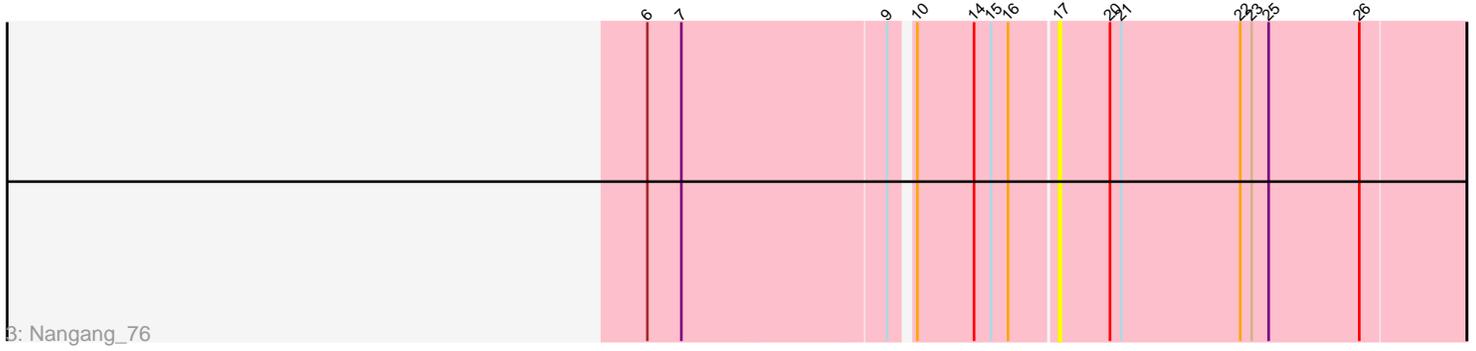


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 284602 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284602 has 5 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Serendipitous\_75
- Track 2 : Nehemiah\_75
- Track 3 : Nangang\_76
- Track 4 : Reprobate\_75, Phelemich\_73

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

The start number called the most often in the published annotations is 14, it was called in 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Nehemiah\_75, Phelemich\_73, Reprobate\_75, Serendipitous\_75,

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

- Nangang\_76,

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

- 

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

Start 14:

- Found in 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 3
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Nehemiah\_75 (B5), Phelemich\_73 (B5), Reprobate\_75 (B5), Serendipitous\_75 (B5),

Start 17:

- Found in 5 of 5 ( 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: Nangang\_76 (B5),

## Summary by clusters:

There is one cluster represented in this pham: B5

Info for manual annotations of cluster B5:

•Start number 14 was manually annotated 3 times for cluster B5.

### **Gene Information:**

Gene: Nangang\_76 Start: 62090, Stop: 61878, Start Num: 17

Candidate Starts for Nangang\_76:

(6, 62294), (7, 62276), (9, 62171), (10, 62162), (Start: 14 @62132 has 3 MA's), (15, 62123), (16, 62114), (17, 62090), (20, 62063), (21, 62057), (22, 61994), (23, 61988), (25, 61979), (26, 61931),

Gene: Nehemiah\_75 Start: 61826, Stop: 61566, Start Num: 14

Candidate Starts for Nehemiah\_75:

(4, 62099), (5, 62090), (8, 61901), (11, 61835), (13, 61829), (Start: 14 @61826 has 3 MA's), (17, 61781), (18, 61775), (19, 61772), (20, 61754), (22, 61685), (23, 61679), (25, 61670), (26, 61622), (27, 61613), (28, 61583),

Gene: Phelemich\_73 Start: 61889, Stop: 61632, Start Num: 14

Candidate Starts for Phelemich\_73:

(1, 62357), (2, 62324), (3, 62309), (4, 62162), (5, 62153), (8, 61964), (11, 61898), (Start: 14 @61889 has 3 MA's), (17, 61844), (18, 61838), (20, 61817), (22, 61748), (23, 61742), (25, 61733), (28, 61649),

Gene: Reprobate\_75 Start: 61894, Stop: 61637, Start Num: 14

Candidate Starts for Reprobate\_75:

(1, 62362), (2, 62329), (3, 62314), (4, 62167), (5, 62158), (8, 61969), (11, 61903), (Start: 14 @61894 has 3 MA's), (17, 61849), (18, 61843), (20, 61822), (22, 61753), (23, 61747), (25, 61738), (28, 61654),

Gene: Serendipitous\_75 Start: 61468, Stop: 61211, Start Num: 14

Candidate Starts for Serendipitous\_75:

(8, 61555), (12, 61477), (Start: 14 @61468 has 3 MA's), (17, 61423), (18, 61417), (20, 61396), (22, 61327), (23, 61321), (24, 61318), (25, 61312),