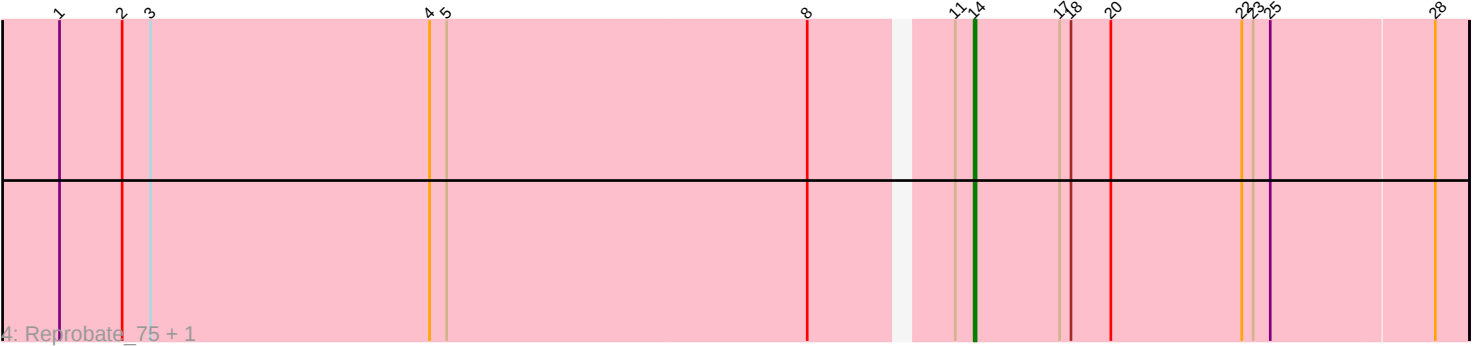
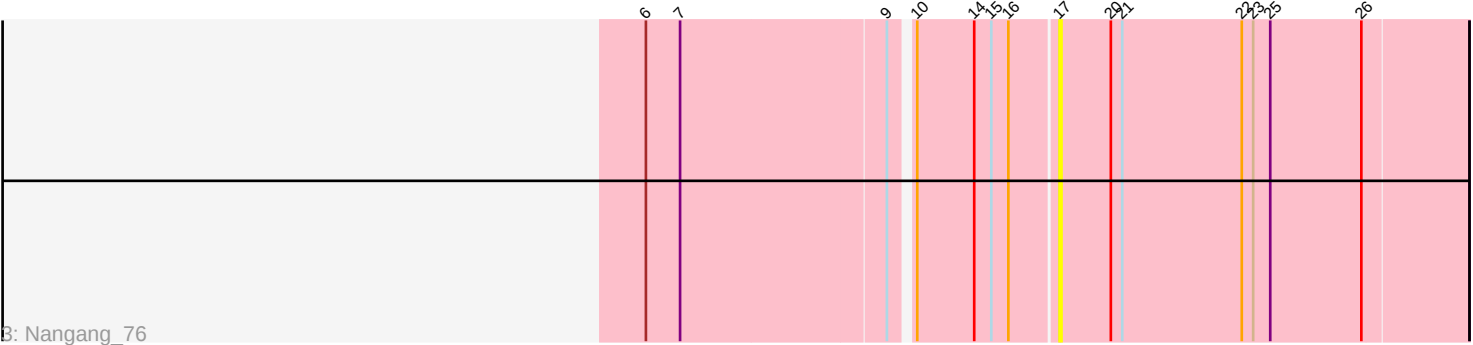
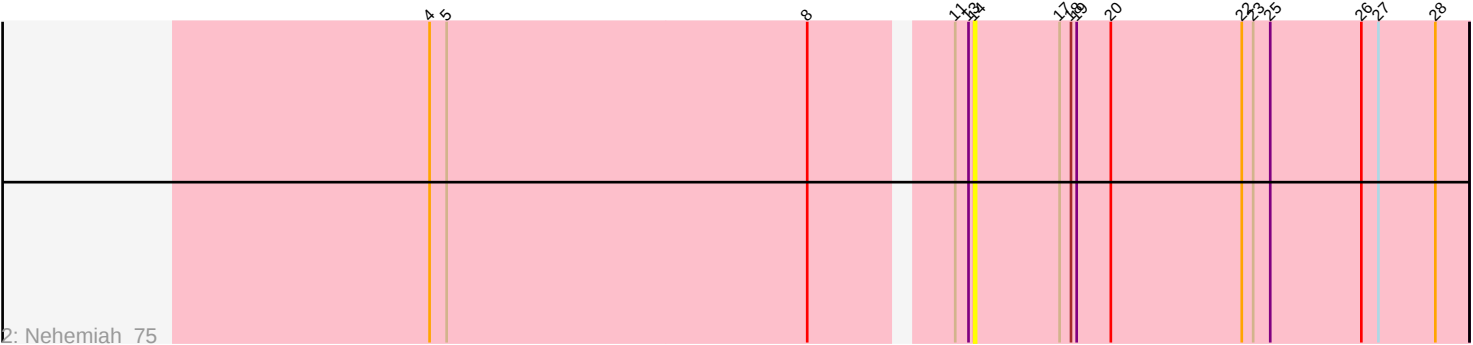
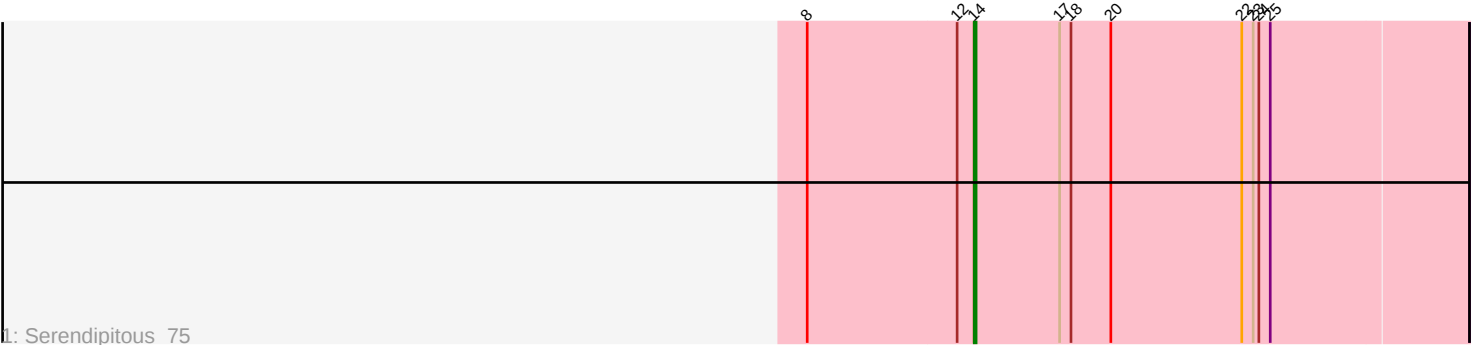




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 291924 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291924 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),