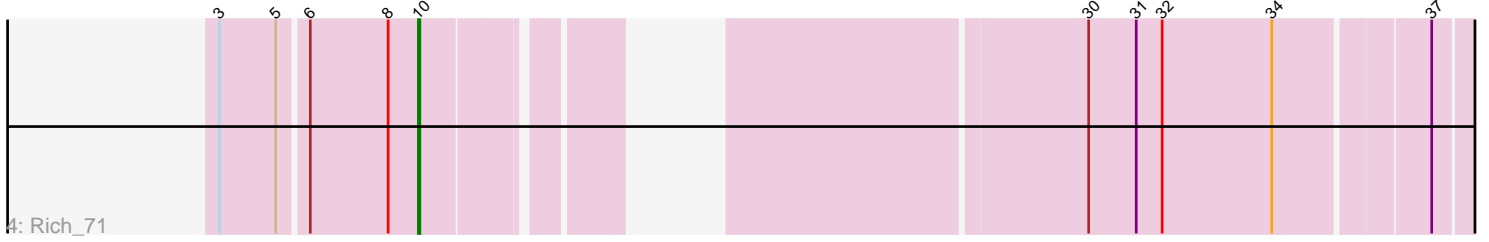
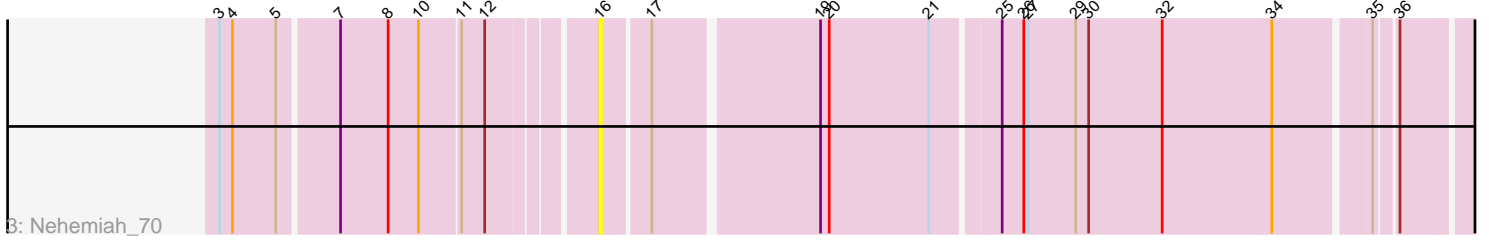
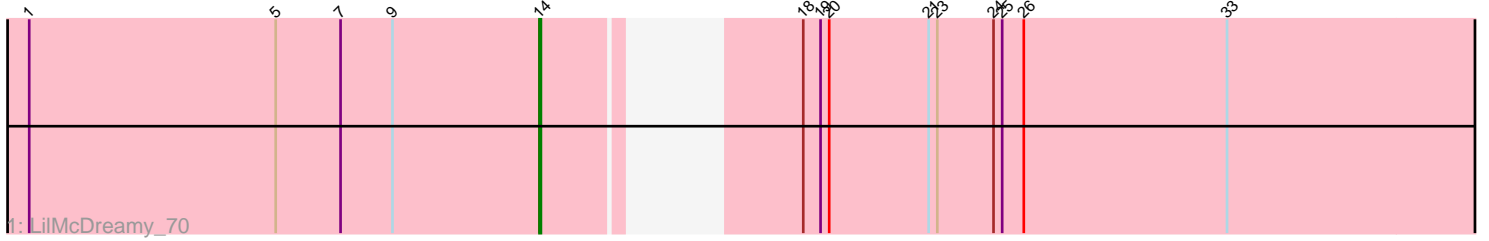


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 297370 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297370 has 6 members, 1 are drafts.

Phages represented in each track:

- Track 1 : LilMcDreamy\_70
- Track 2 : Suigeneris\_73
- Track 3 : Nehemiah\_70
- Track 4 : Rich\_71
- Track 5 : Donny\_73
- Track 6 : Serendipitous\_70

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

The start number called the most often in the published annotations is 13, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Donny\_73, Suigeneris\_73,

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

- 

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

- LilMcDreamy\_70, Nehemiah\_70, Rich\_71, Serendipitous\_70,

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

Start 10:

- Found in 4 of 6 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Rich\_71 (B5),

Start 13:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Donny\_73 (B5), Suigeneris\_73 (B5),

Start 14:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilMcDreamy\_70 (B12),

Start 15:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Serendipitous\_70 (B5),

Start 16:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nehemiah\_70 (B5),

**Summary by clusters:**

There are 2 clusters represented in this pham: B5, B12,

Info for manual annotations of cluster B12:

- Start number 14 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B5:

- Start number 10 was manually annotated 1 time for cluster B5.
- Start number 13 was manually annotated 2 times for cluster B5.
- Start number 15 was manually annotated 1 time for cluster B5.

**Gene Information:**

Gene: Donny\_73 Start: 59741, Stop: 60397, Start Num: 13

Candidate Starts for Donny\_73:

(2, 59549), (5, 59597), (12, 59732), (Start: 13 @59741 has 2 MA's), (21, 60035), (25, 60077), (26, 60092), (28, 60116), (29, 60128), (30, 60137), (32, 60188), (34, 60263), (37, 60368),

Gene: LilMcDreamy\_70 Start: 59640, Stop: 60260, Start Num: 14

Candidate Starts for LilMcDreamy\_70:

(1, 59286), (5, 59457), (7, 59502), (9, 59538), (Start: 14 @59640 has 1 MA's), (18, 59748), (19, 59760), (20, 59766), (21, 59835), (23, 59841), (24, 59880), (25, 59886), (26, 59901), (33, 60042),

Gene: Nehemiah\_70 Start: 59668, Stop: 60234, Start Num: 16

Candidate Starts for Nehemiah\_70:

(3, 59428), (4, 59437), (5, 59467), (7, 59506), (8, 59539), (Start: 10 @59560 has 1 MA's), (11, 59587), (12, 59602), (16, 59668), (17, 59698), (19, 59806), (20, 59812), (21, 59881), (25, 59923), (26, 59938), (27, 59941), (29, 59974), (30, 59983), (32, 60034), (34, 60109), (35, 60169), (36, 60181),

Gene: Rich\_71 Start: 60783, Stop: 61481, Start Num: 10

Candidate Starts for Rich\_71:

(3, 60651), (5, 60690), (6, 60708), (8, 60762), (Start: 10 @60783 has 1 MA's), (30, 61146), (31, 61179), (32, 61197), (34, 61272), (37, 61371),

Gene: Serendipitous\_70 Start: 59224, Stop: 59772, Start Num: 15

Candidate Starts for Serendipitous\_70:

(5, 59041), (7, 59080), (Start: 10 @59134 has 1 MA's), (Start: 15 @59224 has 1 MA's), (22, 59407), (25, 59446), (26, 59461), (29, 59497), (30, 59506), (32, 59557), (34, 59632), (37, 59734),

Gene: Suigeneris\_73 Start: 59932, Stop: 60579, Start Num: 13

Candidate Starts for Suigeneris\_73:

(2, 59740), (5, 59788), (6, 59806), (8, 59860), (Start: 10 @59881 has 1 MA's), (12, 59923), (Start: 13 @59932 has 2 MA's), (21, 60220), (25, 60262), (26, 60277), (28, 60301), (29, 60313), (30, 60322), (32, 60373), (34, 60448), (37, 60553),