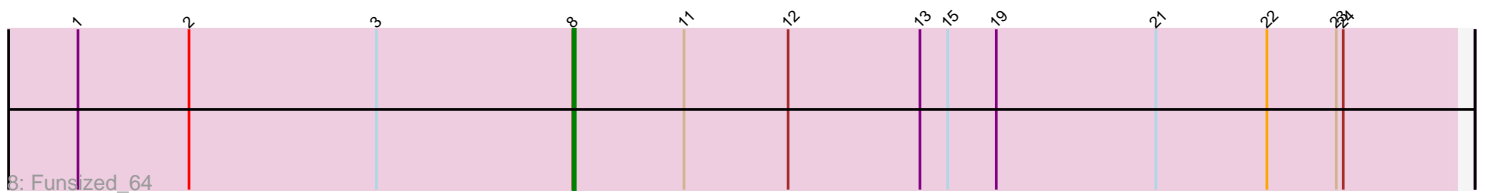
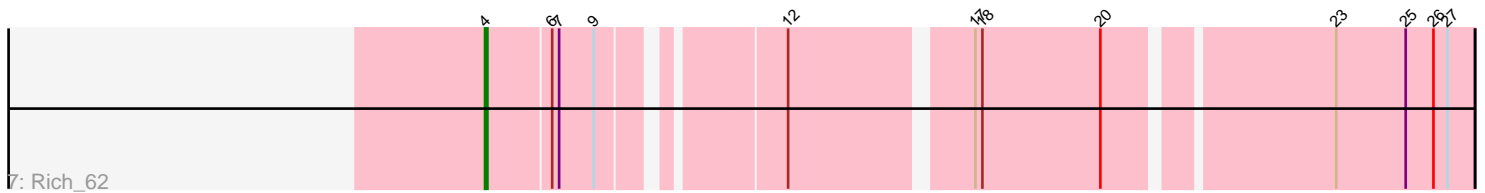
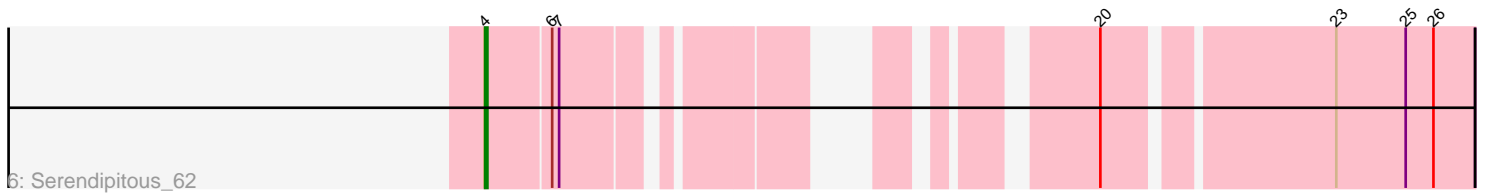
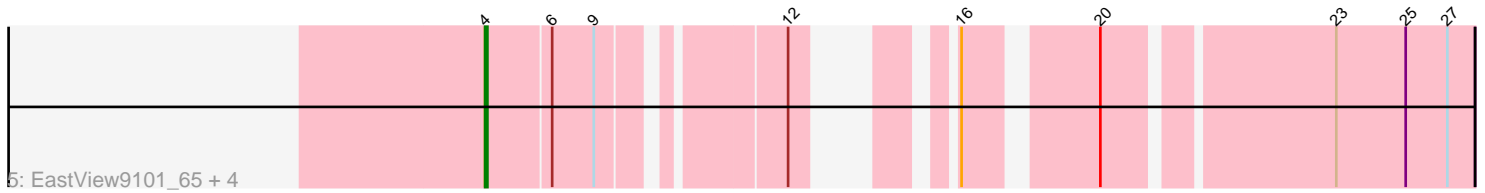
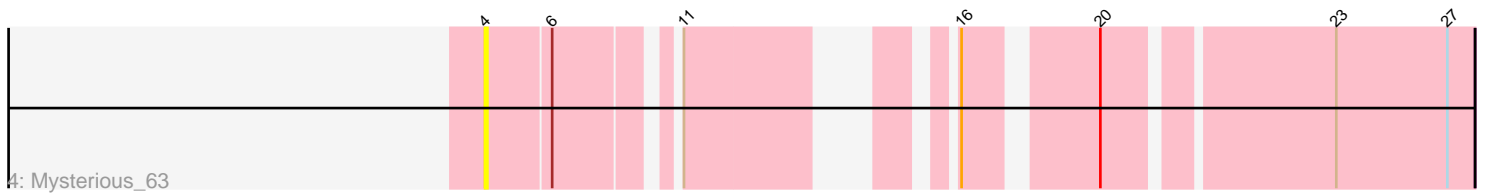
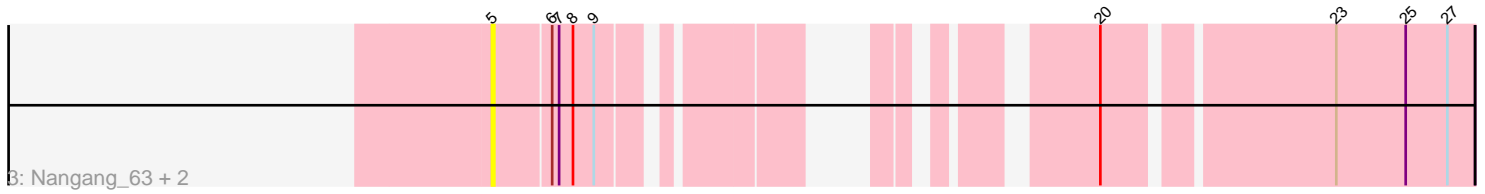
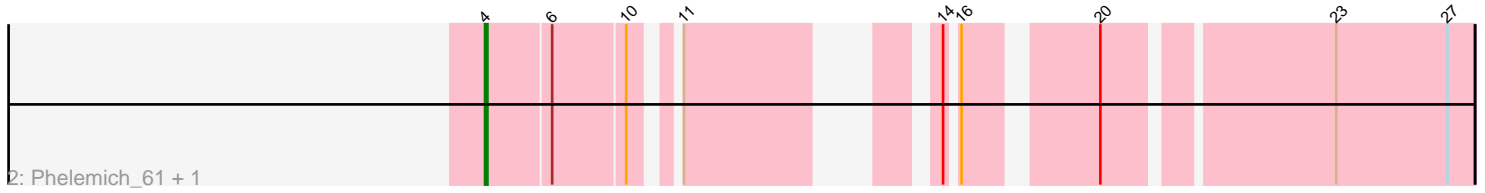
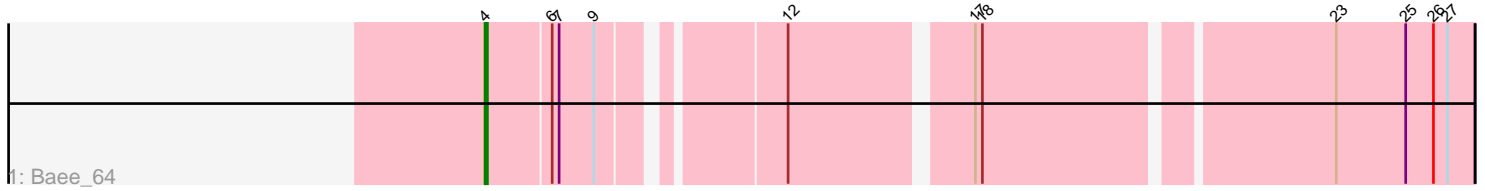


# Pham 158261



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 158261 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158261 has 15 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Bae\_64
- Track 2 : Phelemich\_61, Reprobate\_62
- Track 3 : Nangang\_63, DigitDog\_64, StinkyVeggy\_63
- Track 4 : Mysterious\_63
- Track 5 : EastView9101\_65, SirJeffery\_63, Acadian\_64, Suigeneris\_65, Donny\_65
- Track 6 : Serendipitous\_62
- Track 7 : Rich\_62
- Track 8 : Funsized\_64

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian\_64, Bae\_64, Donny\_65, EastView9101\_65, Mysterious\_63, Phelemich\_61, Reprobate\_62, Rich\_62, Serendipitous\_62, SirJeffery\_63, Suigeneris\_65,

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

- 

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

- DigitDog\_64, Funsized\_64, Nangang\_63, StinkyVeggy\_63,

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

Start 4:

- Found in 11 of 15 ( 73.3% ) 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: Acadian\_64 (B5), Bae\_64 (B5), Donny\_65 (B5), EastView9101\_65 (B5), Mysterious\_63 (B5), Phelemich\_61 (B5), Reprobate\_62 (B5), Rich\_62 (B5), Serendipitous\_62 (B5), SirJeffery\_63 (B5),

Suigeneris\_65 (B5),

Start 5:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DigitDog\_64 (B5), Nangang\_63 (B5), StinkyVeggy\_63 (B5),

Start 8:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Funsized\_64 (B9),

### **Summary by clusters:**

There are 2 clusters represented in this pham: B5, B9,

Info for manual annotations of cluster B5:

- Start number 4 was manually annotated 8 times for cluster B5.

Info for manual annotations of cluster B9:

- Start number 8 was manually annotated 1 time for cluster B9.

### **Gene Information:**

Gene: Acadian\_64 Start: 56676, Stop: 56335, Start Num: 4

Candidate Starts for Acadian\_64:

(Start: 4 @56676 has 8 MA's), (6, 56649), (9, 56631), (12, 56565), (16, 56532), (20, 56484), (23, 56394), (25, 56364), (27, 56346),

Gene: Bae\_64 Start: 57648, Stop: 57262, Start Num: 4

Candidate Starts for Bae\_64:

(Start: 4 @57648 has 8 MA's), (6, 57621), (7, 57618), (9, 57603), (12, 57537), (17, 57465), (18, 57462), (23, 57321), (25, 57291), (26, 57279), (27, 57273),

Gene: DigitDog\_64 Start: 56730, Stop: 56395, Start Num: 5

Candidate Starts for DigitDog\_64:

(5, 56730), (6, 56706), (7, 56703), (Start: 8 @56697 has 1 MA's), (9, 56688), (20, 56544), (23, 56454), (25, 56424), (27, 56406),

Gene: Donny\_65 Start: 56722, Stop: 56381, Start Num: 4

Candidate Starts for Donny\_65:

(Start: 4 @56722 has 8 MA's), (6, 56695), (9, 56677), (12, 56611), (16, 56578), (20, 56530), (23, 56440), (25, 56410), (27, 56392),

Gene: EastView9101\_65 Start: 56420, Stop: 56079, Start Num: 4

Candidate Starts for EastView9101\_65:

(Start: 4 @56420 has 8 MA's), (6, 56393), (9, 56375), (12, 56309), (16, 56276), (20, 56228), (23, 56138), (25, 56108), (27, 56090),

Gene: Funsized\_64 Start: 58606, Stop: 58226, Start Num: 8

Candidate Starts for Funsized\_64:

(1, 58819), (2, 58771), (3, 58690), (Start: 8 @58606 has 1 MA's), (11, 58558), (12, 58513), (13, 58456), (15, 58444), (19, 58423), (21, 58354), (22, 58306), (23, 58276), (24, 58273),

Gene: Mysterious\_63 Start: 56569, Stop: 56225, Start Num: 4

Candidate Starts for Mysterious\_63:

(Start: 4 @56569 has 8 MA's), (6, 56542), (11, 56500), (16, 56422), (20, 56374), (23, 56284), (27, 56236),

Gene: Nangang\_63 Start: 56756, Stop: 56421, Start Num: 5

Candidate Starts for Nangang\_63:

(5, 56756), (6, 56732), (7, 56729), (Start: 8 @56723 has 1 MA's), (9, 56714), (20, 56570), (23, 56480), (25, 56450), (27, 56432),

Gene: Phelemich\_61 Start: 56567, Stop: 56223, Start Num: 4

Candidate Starts for Phelemich\_61:

(Start: 4 @56567 has 8 MA's), (6, 56540), (10, 56510), (11, 56498), (14, 56423), (16, 56420), (20, 56372), (23, 56282), (27, 56234),

Gene: Reprobate\_62 Start: 56572, Stop: 56228, Start Num: 4

Candidate Starts for Reprobate\_62:

(Start: 4 @56572 has 8 MA's), (6, 56545), (10, 56515), (11, 56503), (14, 56428), (16, 56425), (20, 56377), (23, 56287), (27, 56239),

Gene: Rich\_62 Start: 57709, Stop: 57323, Start Num: 4

Candidate Starts for Rich\_62:

(Start: 4 @57709 has 8 MA's), (6, 57682), (7, 57679), (9, 57664), (12, 57598), (17, 57526), (18, 57523), (20, 57472), (23, 57382), (25, 57352), (26, 57340), (27, 57334),

Gene: Serendipitous\_62 Start: 56107, Stop: 55766, Start Num: 4

Candidate Starts for Serendipitous\_62:

(Start: 4 @56107 has 8 MA's), (6, 56080), (7, 56077), (20, 55915), (23, 55825), (25, 55795), (26, 55783),

Gene: SirJeffery\_63 Start: 56753, Stop: 56412, Start Num: 4

Candidate Starts for SirJeffery\_63:

(Start: 4 @56753 has 8 MA's), (6, 56726), (9, 56708), (12, 56642), (16, 56609), (20, 56561), (23, 56471), (25, 56441), (27, 56423),

Gene: StinkyVeggy\_63 Start: 56576, Stop: 56241, Start Num: 5

Candidate Starts for StinkyVeggy\_63:

(5, 56576), (6, 56552), (7, 56549), (Start: 8 @56543 has 1 MA's), (9, 56534), (20, 56390), (23, 56300), (25, 56270), (27, 56252),

Gene: Suigeneris\_65 Start: 56871, Stop: 56530, Start Num: 4

Candidate Starts for Suigeneris\_65:

(Start: 4 @56871 has 8 MA's), (6, 56844), (9, 56826), (12, 56760), (16, 56727), (20, 56679), (23, 56589), (25, 56559), (27, 56541),