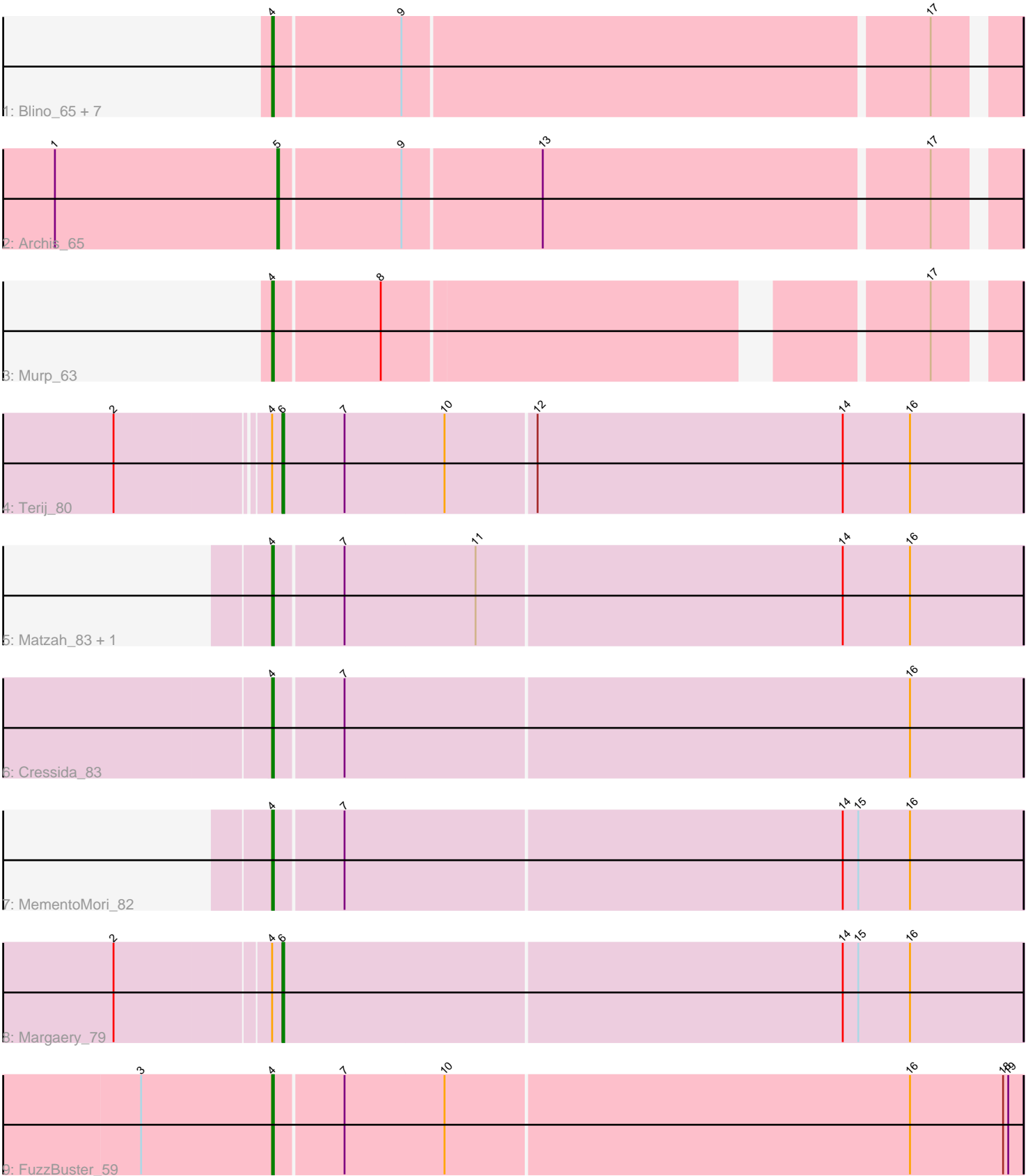


Pham 4260



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 4260 Report

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

Pham number 4260 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Blino_65, Azula_65, Gambino_67, Blueberry_64, JuJu_70, Hitter_64, MissRona_65, CarolAnn_64
- Track 2 : Archis_65
- Track 3 : Murp_63
- Track 4 : Terij_80
- Track 5 : Matzah_83, Cinna_81
- Track 6 : Cressida_83
- Track 7 : MementoMori_82
- Track 8 : Margaery_79
- Track 9 : FuzzBuster_59

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 14 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azula_65, Blino_65, Blueberry_64, CarolAnn_64, Cinna_81, Cressida_83, FuzzBuster_59, Gambino_67, Hitter_64, JuJu_70, Matzah_83, MementoMori_82, MissRona_65, Murp_63,

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

- Margaery_79, Terij_80,

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

- Archis_65,

Summary by start number:

Start 4:

- Found in 16 of 17 (94.1%) of genes in pham
- Manual Annotations of this start: 14 of 17
- Called 87.5% of time when present

- Phage (with cluster) where this start called: Azula_65 (CV), Blino_65 (CV), Blueberry_64 (CV), CarolAnn_64 (CV), Cinna_81 (EI), Cressida_83 (EI), FuzzBuster_59 (singleton), Gambino_67 (CV), Hitter_64 (CV), JuJu_70 (CV), Matzah_83 (EI), MementoMori_82 (EI), MissRona_65 (CV), Murp_63 (CV),

Start 5:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archis_65 (CV),

Start 6:

- Found in 2 of 17 (11.8%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Margaery_79 (EI), Terij_80 (EI),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, EI, CV,

Info for manual annotations of cluster CV:

- Start number 4 was manually annotated 9 times for cluster CV.
- Start number 5 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster EI:

- Start number 4 was manually annotated 4 times for cluster EI.
- Start number 6 was manually annotated 2 times for cluster EI.

Gene Information:

Gene: Archis_65 Start: 40469, Stop: 40876, Start Num: 5

Candidate Starts for Archis_65:

(1, 40340), (Start: 5 @40469 has 1 MA's), (9, 40538), (13, 40616), (17, 40835),

Gene: Azula_65 Start: 43417, Stop: 43827, Start Num: 4

Candidate Starts for Azula_65:

(Start: 4 @43417 has 14 MA's), (9, 43489), (17, 43786),

Gene: Blino_65 Start: 45443, Stop: 45853, Start Num: 4

Candidate Starts for Blino_65:

(Start: 4 @45443 has 14 MA's), (9, 45515), (17, 45812),

Gene: Blueberry_64 Start: 43417, Stop: 43827, Start Num: 4

Candidate Starts for Blueberry_64:

(Start: 4 @43417 has 14 MA's), (9, 43489), (17, 43786),

Gene: CarolAnn_64 Start: 45442, Stop: 45852, Start Num: 4

Candidate Starts for CarolAnn_64:

(Start: 4 @45442 has 14 MA's), (9, 45514), (17, 45811),

Gene: Cinna_81 Start: 49820, Stop: 50248, Start Num: 4

Candidate Starts for Cinna_81:

(Start: 4 @49820 has 14 MA's), (7, 49859), (11, 49934), (14, 50144), (16, 50183),

Gene: Cressida_83 Start: 50119, Stop: 50547, Start Num: 4

Candidate Starts for Cressida_83:

(Start: 4 @50119 has 14 MA's), (7, 50158), (16, 50482),

Gene: FuzzBuster_59 Start: 35009, Stop: 34581, Start Num: 4

Candidate Starts for FuzzBuster_59:

(3, 35084), (Start: 4 @35009 has 14 MA's), (7, 34970), (10, 34913), (16, 34646), (18, 34592), (19, 34589),

Gene: Gambino_67 Start: 43417, Stop: 43827, Start Num: 4

Candidate Starts for Gambino_67:

(Start: 4 @43417 has 14 MA's), (9, 43489), (17, 43786),

Gene: Hitter_64 Start: 40684, Stop: 41094, Start Num: 4

Candidate Starts for Hitter_64:

(Start: 4 @40684 has 14 MA's), (9, 40756), (17, 41053),

Gene: JuJu_70 Start: 44849, Stop: 45259, Start Num: 4

Candidate Starts for JuJu_70:

(Start: 4 @44849 has 14 MA's), (9, 44921), (17, 45218),

Gene: Margaery_79 Start: 49568, Stop: 49993, Start Num: 6

Candidate Starts for Margaery_79:

(2, 49475), (Start: 4 @49562 has 14 MA's), (Start: 6 @49568 has 2 MA's), (14, 49889), (15, 49898), (16, 49928),

Gene: Matzah_83 Start: 49875, Stop: 50303, Start Num: 4

Candidate Starts for Matzah_83:

(Start: 4 @49875 has 14 MA's), (7, 49914), (11, 49989), (14, 50199), (16, 50238),

Gene: MementoMori_82 Start: 49560, Stop: 49988, Start Num: 4

Candidate Starts for MementoMori_82:

(Start: 4 @49560 has 14 MA's), (7, 49599), (14, 49884), (15, 49893), (16, 49923),

Gene: MissRona_65 Start: 43418, Stop: 43828, Start Num: 4

Candidate Starts for MissRona_65:

(Start: 4 @43418 has 14 MA's), (9, 43490), (17, 43787),

Gene: Murp_63 Start: 43541, Stop: 43930, Start Num: 4

Candidate Starts for Murp_63:

(Start: 4 @43541 has 14 MA's), (8, 43601), (17, 43889),

Gene: Terij_80 Start: 49207, Stop: 49632, Start Num: 6

Candidate Starts for Terij_80:

(2, 49117), (Start: 4 @49201 has 14 MA's), (Start: 6 @49207 has 2 MA's), (7, 49243), (10, 49300), (12, 49351), (14, 49528), (16, 49567),