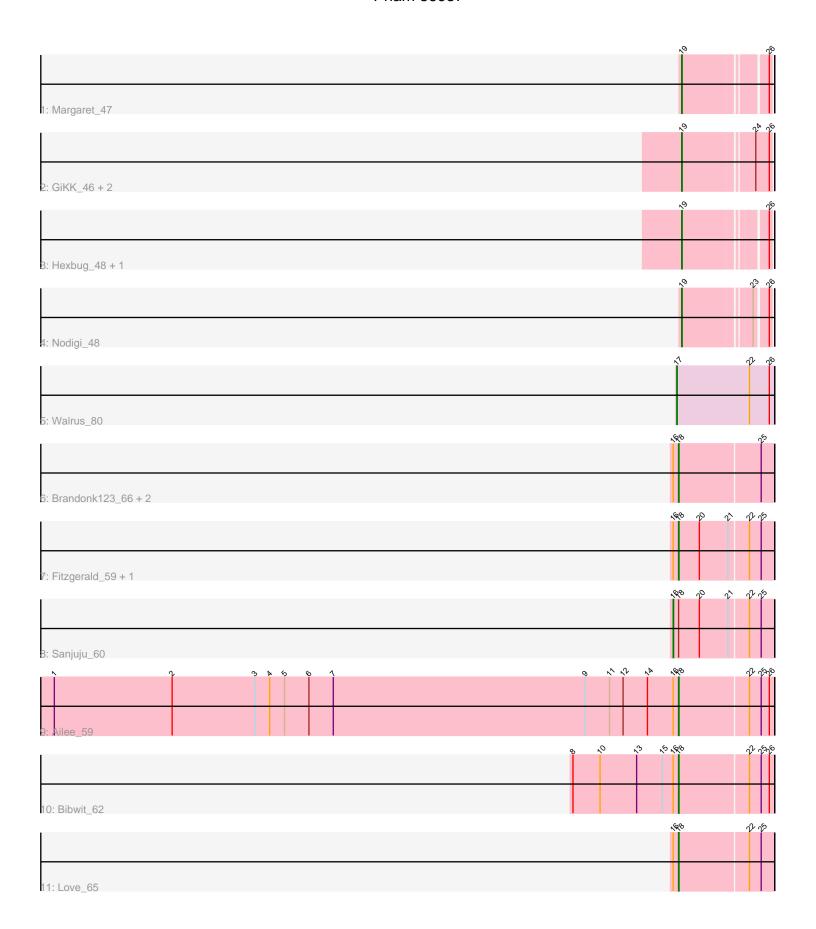
Pham 86937



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 86937 Report

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

Pham number 86937 has 17 members, 2 are drafts.

Phages represented in each track:

Track 1 : Margaret 47

Track 2 : GiKK_46, Button_44, Jamzy_46

Track 3: Hexbug_48, Orla_48

Track 4 : Nodigi_48

• Track 5 : Walrus 80

Track 6: Brandonk123_66, Thing3_61, Kamashten_61

Track 7: Fitzgerald_59, Jabberwocky_60

• Track 8 : Sanjuju_60

Track 9 : Ailee_59

• Track 10 : Bibwit_62

• Track 11 : Love_65

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

The start number called the most often in the published annotations is 19, it was called in 7 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Button_44, GiKK_46, Hexbug_48, Jamzy_46, Margaret_47, Nodigi_48, Orla_48,

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

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

• Ailee_59, Bibwit_62, Brandonk123_66, Fitzgerald_59, Jabberwocky_60, Kamashten_61, Love_65, Sanjuju_60, Thing3_61, Walrus_80,

Summary by start number:

Start 16:

- Found in 9 of 17 (52.9%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Sanjuju_60 (DE1),

Start 17:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Walrus_80 (CV),

Start 18:

- Found in 9 of 17 (52.9%) of genes in pham
- Manual Annotations of this start: 6 of 15
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Ailee_59 (DE1), Bibwit_62 (DE1), Brandonk123_66 (DE1), Fitzgerald_59 (DE1), Jabberwocky_60 (DE1), Kamashten_61 (DE1), Love_65 (DE1), Thing3_61 (DE1),

Start 19:

- Found in 7 of 17 (41.2%) of genes in pham
- Manual Annotations of this start: 7 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button_44 (CT), GiKK_46 (CT),
 Hexbug_48 (CT), Jamzy_46 (CT), Margaret_47 (CT), Nodigi_48 (CT), Orla_48 (CT),

Summary by clusters:

There are 3 clusters represented in this pham: DE1, CV, CT,

Info for manual annotations of cluster CT:

•Start number 19 was manually annotated 7 times for cluster CT.

Info for manual annotations of cluster CV:

•Start number 17 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DE1:

- •Start number 16 was manually annotated 1 time for cluster DE1.
- •Start number 18 was manually annotated 6 times for cluster DE1.

Gene Information:

Gene: Ailee 59 Start: 49435, Stop: 49638, Start Num: 18

Candidate Starts for Ailee 59:

(1, 48052), (2, 48313), (3, 48496), (4, 48529), (5, 48562), (6, 48616), (7, 48670), (9, 49228), (11, 49282), (12, 49312), (14, 49366), (Start: 16 @49423 has 1 MA's), (Start: 18 @49435 has 6 MA's), (22, 49585), (25, 49609), (26, 49627),

Gene: Bibwit_62 Start: 49271, Stop: 49474, Start Num: 18

Candidate Starts for Bibwit_62:

(8, 49037), (10, 49097), (13, 49178), (15, 49235), (Start: 16 @49259 has 1 MA's), (Start: 18 @49271 has 6 MA's), (22, 49421), (25, 49445), (26, 49463),

Gene: Brandonk123_66 Start: 49721, Stop: 49921, Start Num: 18 Candidate Starts for Brandonk123_66:

(Start: 16 @49709 has 1 MA's), (Start: 18 @49721 has 6 MA's), (25, 49895),

Gene: Button_44 Start: 29409, Stop: 29227, Start Num: 19

Candidate Starts for Button_44:

(Start: 19 @29409 has 7 MA's), (24, 29262), (26, 29232),

Gene: Fitzgerald_59 Start: 50047, Stop: 50244, Start Num: 18

Candidate Starts for Fitzgerald 59:

(Start: 16 @50035 has 1 MA's), (Start: 18 @50047 has 6 MA's), (20, 50092), (21, 50155), (22, 50194),

(25, 50218),

Gene: GiKK_46 Start: 29739, Stop: 29557, Start Num: 19

Candidate Starts for GiKK_46:

(Start: 19 @29739 has 7 MA's), (24, 29592), (26, 29562),

Gene: Hexbug_48 Start: 31508, Stop: 31341, Start Num: 19

Candidate Starts for Hexbug_48:

(Start: 19 @31508 has 7 MA's), (26, 31346),

Gene: Jabberwocky_60 Start: 50281, Stop: 50478, Start Num: 18

Candidate Starts for Jabberwocky_60:

(Start: 16 @50269 has 1 MA's), (Start: 18 @50281 has 6 MA's), (20, 50326), (21, 50389), (22, 50428),

(25, 50452),

Gene: Jamzy_46 Start: 29722, Stop: 29540, Start Num: 19

Candidate Starts for Jamzy_46:

(Start: 19 @29722 has 7 MA's), (24, 29575), (26, 29545),

Gene: Kamashten_61 Start: 49154, Stop: 49354, Start Num: 18

Candidate Starts for Kamashten_61:

(Start: 16 @49142 has 1 MA's), (Start: 18 @49154 has 6 MA's), (25, 49328),

Gene: Love_65 Start: 50162, Stop: 50362, Start Num: 18

Candidate Starts for Love 65:

(Start: 16 @50150 has 1 MA's), (Start: 18 @50162 has 6 MA's), (22, 50312), (25, 50336),

Gene: Margaret_47 Start: 30462, Stop: 30289, Start Num: 19

Candidate Starts for Margaret_47:

(Start: 19 @30462 has 7 MA's), (26, 30294),

Gene: Nodigi_48 Start: 31494, Stop: 31327, Start Num: 19

Candidate Starts for Nodigi_48:

(Start: 19 @31494 has 7 MA's), (23, 31359), (26, 31332),

Gene: Orla 48 Start: 31467, Stop: 31300, Start Num: 19

Candidate Starts for Orla_48:

(Start: 19 @31467 has 7 MA's), (26, 31305),

Gene: Sanjuju_60 Start: 50167, Stop: 50376, Start Num: 16

Candidate Starts for Sanjuju 60:

(Start: 16 @50167 has 1 MA's), (Start: 18 @50179 has 6 MA's), (20, 50224), (21, 50287), (22, 50326),

(25, 50350),

Gene: Thing3_61 Start: 49154, Stop: 49354, Start Num: 18

Candidate Starts for Thing3_61:

(Start: 16 @49142 has 1 MA's), (Start: 18 @49154 has 6 MA's), (25, 49328),

Gene: Walrus_80 Start: 50365, Stop: 50577, Start Num: 17

Candidate Starts for Walrus_80:

(Start: 17 @50365 has 1 MA's), (22, 50524), (26, 50566),