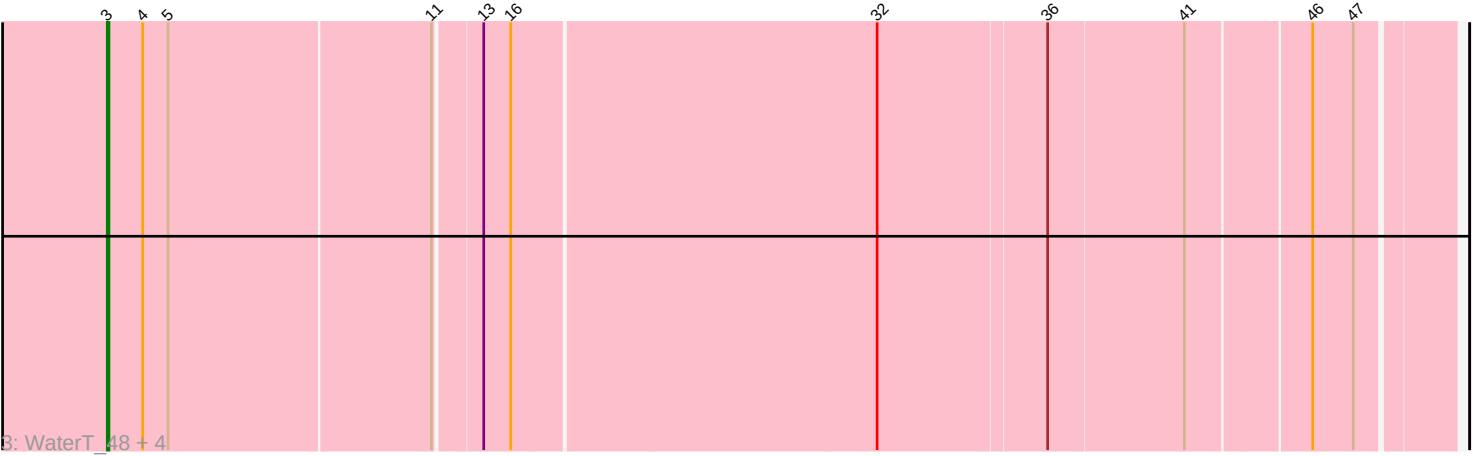
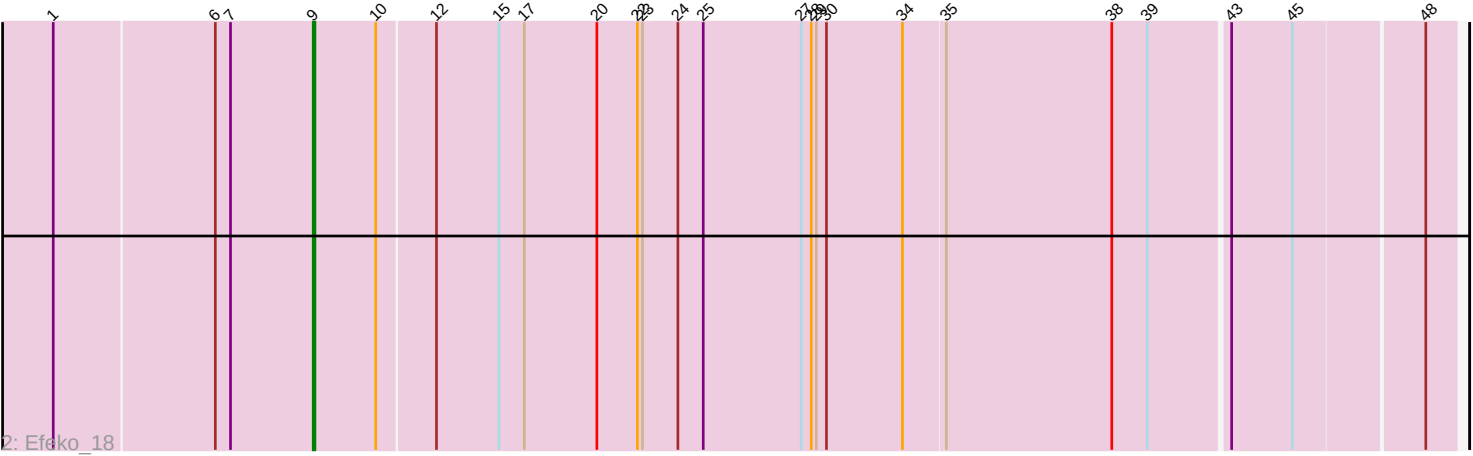
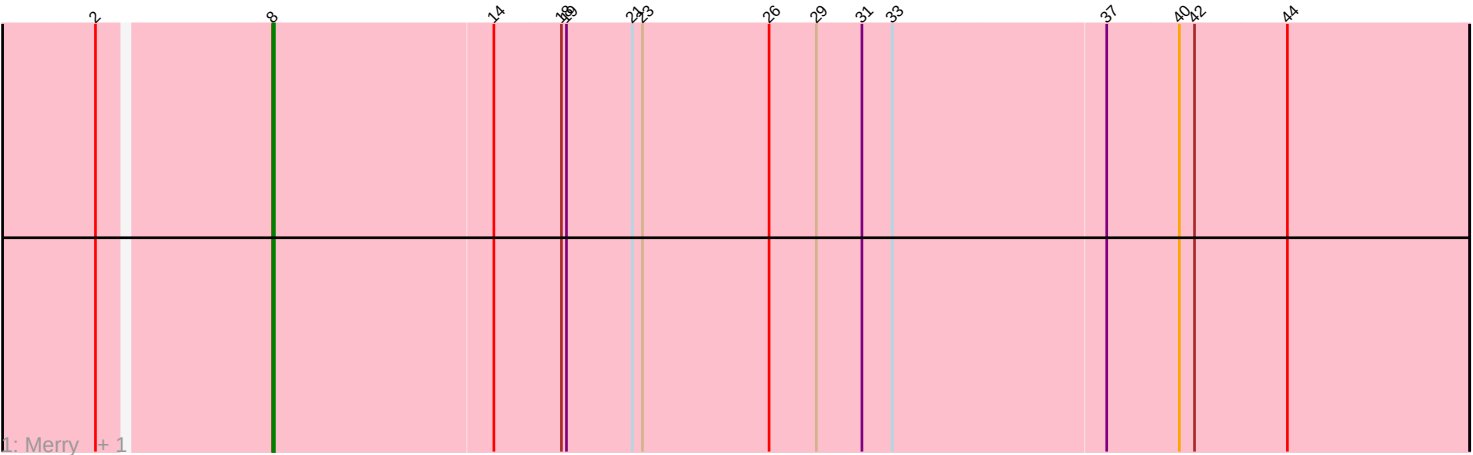




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 320059 Report

This analysis was run 09/05/26 on database version 662.

Pham number 320059 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Merry_, Sunny_
- Track 2 : Efeko_18
- Track 3 : WaterT_48, LeeroyJenkins_50, BarnCat_43, Cassita_49, Lifes_45

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

The start number called the most often in the published annotations is 3, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarnCat_43, Cassita_49, LeeroyJenkins_50, Lifes_45, WaterT_48,

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

-

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

- Efeko_18, Merry_, Sunny_

Summary by start number:

Start 3:

- Found in 5 of 8 (62.5%) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarnCat_43 (GB), Cassita_49 (GB), LeeroyJenkins_50 (GB), Lifes_45 (GB), WaterT_48 (GB),

Start 8:

- Found in 2 of 8 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Merry_ (EC), Sunny_ (EC),

Start 9:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Efeko_18 (EE),

Summary by clusters:

There are 3 clusters represented in this pham: EE, GB, EC,

Info for manual annotations of cluster EC:

- Start number 8 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster EE:

- Start number 9 was manually annotated 1 time for cluster EE.

Info for manual annotations of cluster GB:

- Start number 3 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: BarnCat_43 Start: 28710, Stop: 29468, Start Num: 3

Candidate Starts for BarnCat_43:

(Start: 3 @28710 has 5 MA's), (4, 28731), (5, 28746), (11, 28899), (13, 28923), (16, 28938), (32, 29148), (36, 29244), (41, 29322), (46, 29391), (47, 29415),

Gene: Cassita_49 Start: 31086, Stop: 31844, Start Num: 3

Candidate Starts for Cassita_49:

(Start: 3 @31086 has 5 MA's), (4, 31107), (5, 31122), (11, 31275), (13, 31299), (16, 31314), (32, 31524), (36, 31620), (41, 31698), (46, 31767), (47, 31791),

Gene: Efeko_18 Start: 13314, Stop: 13967, Start Num: 9

Candidate Starts for Efeko_18:

(1, 13164), (6, 13257), (7, 13266), (Start: 9 @13314 has 1 MA's), (10, 13350), (12, 13383), (15, 13419), (17, 13434), (20, 13476), (22, 13500), (23, 13503), (24, 13524), (25, 13539), (27, 13596), (28, 13602), (29, 13605), (30, 13611), (34, 13656), (35, 13680), (38, 13776), (39, 13797), (43, 13842), (45, 13878), (48, 13950),

Gene: LeeroyJenkins_50 Start: 31969, Stop: 32727, Start Num: 3

Candidate Starts for LeeroyJenkins_50:

(Start: 3 @31969 has 5 MA's), (4, 31990), (5, 32005), (11, 32158), (13, 32182), (16, 32197), (32, 32407), (36, 32503), (41, 32581), (46, 32650), (47, 32674),

Gene: Lifes_45 Start: 28741, Stop: 29499, Start Num: 3

Candidate Starts for Lifes_45:

(Start: 3 @28741 has 5 MA's), (4, 28762), (5, 28777), (11, 28930), (13, 28954), (16, 28969), (32, 29179), (36, 29275), (41, 29353), (46, 29422), (47, 29446),

Gene: Merry_ Start: 31740, Stop: 32438, Start Num: 8

Candidate Starts for Merry_ :

(2, 31644), (Start: 8 @31740 has 2 MA's), (14, 31869), (18, 31908), (19, 31911), (21, 31950), (23, 31956), (26, 32031), (29, 32058), (31, 32085), (33, 32103), (37, 32226), (40, 32268), (42, 32277), (44,

32331),

Gene: Sunny_ Start: 31742, Stop: 32440, Start Num: 8

Candidate Starts for Sunny_:

(2, 31646), (Start: 8 @31742 has 2 MA's), (14, 31871), (18, 31910), (19, 31913), (21, 31952), (23, 31958), (26, 32033), (29, 32060), (31, 32087), (33, 32105), (37, 32228), (40, 32270), (42, 32279), (44, 32333),

Gene: WaterT_48 Start: 30830, Stop: 31588, Start Num: 3

Candidate Starts for WaterT_48:

(Start: 3 @30830 has 5 MA's), (4, 30851), (5, 30866), (11, 31019), (13, 31043), (16, 31058), (32, 31268), (36, 31364), (41, 31442), (46, 31511), (47, 31535),