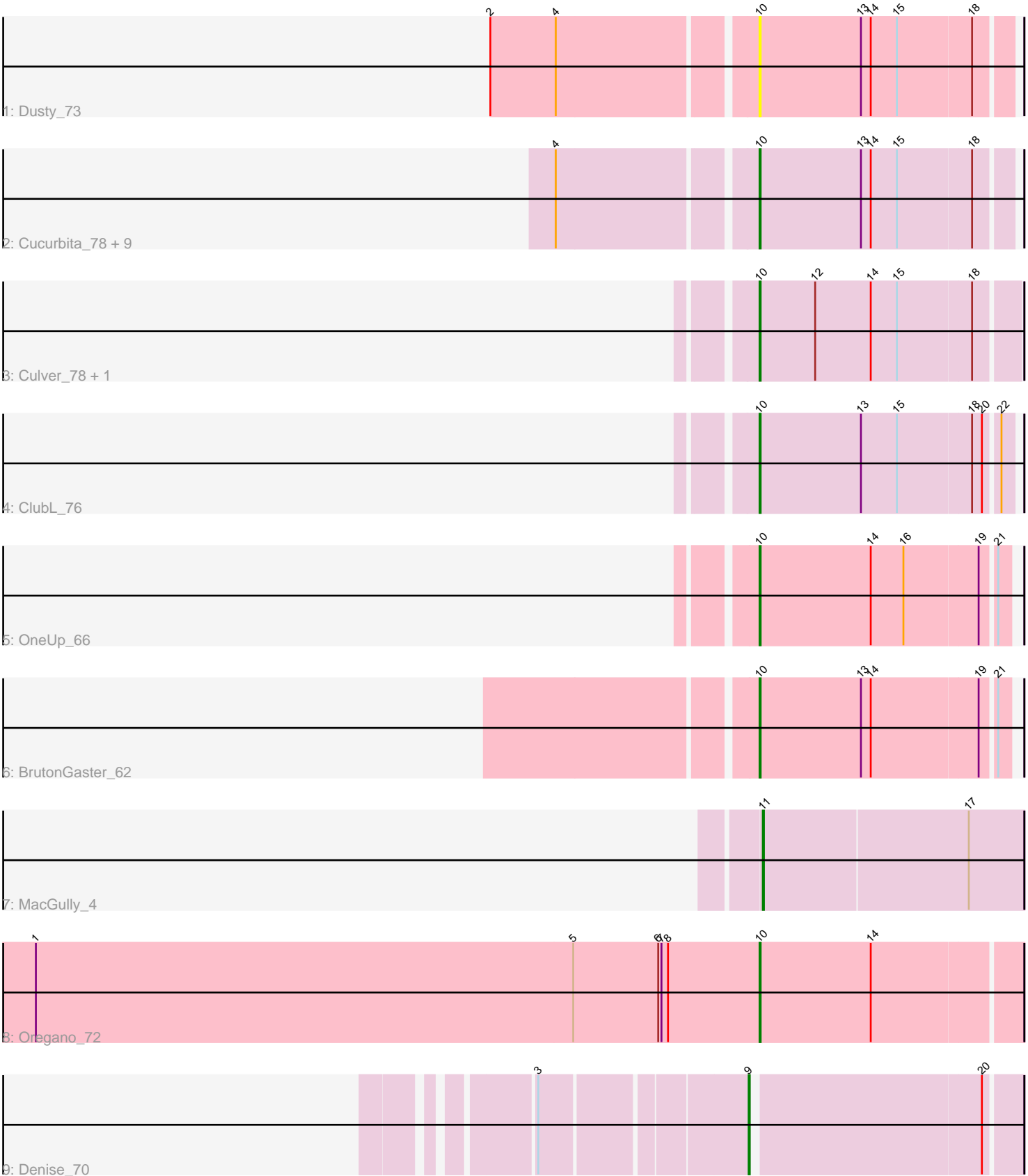


Pham 67671



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 67671 Report

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

Pham number 67671 has 19 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Dusty_73
- Track 2 : Cucurbita_78, Bachita_78, Norvs_77, Smoothie_78, PhinkBoden_76, Aphelion_76, Abscondus_76, Lozinak_77, Toniann_77, Engineer_78
- Track 3 : Culver_78, WilliamBoone_76
- Track 4 : ClubL_76
- Track 5 : OneUp_66
- Track 6 : BrutonGaster_62
- Track 7 : MacGully_4
- Track 8 : Oregano_72
- Track 9 : Denise_70

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

The start number called the most often in the published annotations is 10, it was called in 15 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_76, Aphelion_76, Bachita_78, BrutonGaster_62, ClubL_76, Cucurbita_78, Culver_78, Dusty_73, Engineer_78, Lozinak_77, Norvs_77, OneUp_66, Oregano_72, PhinkBoden_76, Smoothie_78, Toniann_77, WilliamBoone_76,

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

-

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

- Denise_70, MacGully_4,

Summary by start number:

Start 9:

- Found in 1 of 19 (5.3%) 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: Denise_70 (CZ5),

Start 10:

- Found in 17 of 19 (89.5%) of genes in pham
- Manual Annotations of this start: 15 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_76 (CQ), Aphelion_76 (CQ1), Bachita_78 (CQ1), BrutonGaster_62 (CQ2), ClubL_76 (CQ1), Cucurbita_78 (CQ1), Culver_78 (CQ1), Dusty_73 (CQ), Engineer_78 (CQ1), Lozinak_77 (CQ1), Norvs_77 (CQ), OneUp_66 (CQ2), Oregano_72 (CZ4), PhinkBoden_76 (CQ1), Smoothie_78 (CQ1), Toniann_77 (CQ1), WilliamBoone_76 (CQ1),

Start 11:

- Found in 1 of 19 (5.3%) 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: MacGully_4 (CR),

Summary by clusters:

There are 6 clusters represented in this pham: CZ4, CZ5, CR, CQ2, CQ1, CQ,

Info for manual annotations of cluster CQ:

- Start number 10 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 10 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 10 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR:

- Start number 11 was manually annotated 1 time for cluster CR.

Info for manual annotations of cluster CZ4:

- Start number 10 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 9 was manually annotated 1 time for cluster CZ5.

Gene Information:

Gene: Abscondus_76 Start: 49066, Stop: 49290, Start Num: 10

Candidate Starts for Abscondus_76:

(4, 48907), (Start: 10 @49066 has 15 MA's), (13, 49159), (14, 49168), (15, 49192), (18, 49258),

Gene: Aphelion_76 Start: 49688, Stop: 49912, Start Num: 10

Candidate Starts for Aphelion_76:

(4, 49529), (Start: 10 @49688 has 15 MA's), (13, 49781), (14, 49790), (15, 49814), (18, 49880),

Gene: Bachita_78 Start: 50113, Stop: 50337, Start Num: 10

Candidate Starts for Bachita_78:

(4, 49954), (Start: 10 @50113 has 15 MA's), (13, 50206), (14, 50215), (15, 50239), (18, 50305),

Gene: BrutonGaster_62 Start: 45435, Stop: 45656, Start Num: 10

Candidate Starts for BrutonGaster_62:

(Start: 10 @45435 has 15 MA's), (13, 45528), (14, 45537), (19, 45633), (21, 45645),

Gene: ClubL_76 Start: 48801, Stop: 49025, Start Num: 10

Candidate Starts for ClubL_76:

(Start: 10 @48801 has 15 MA's), (13, 48894), (15, 48927), (18, 48993), (20, 49002), (22, 49014),

Gene: Cucurbita_78 Start: 50620, Stop: 50844, Start Num: 10

Candidate Starts for Cucurbita_78:

(4, 50461), (Start: 10 @50620 has 15 MA's), (13, 50713), (14, 50722), (15, 50746), (18, 50812),

Gene: Culver_78 Start: 48718, Stop: 48948, Start Num: 10

Candidate Starts for Culver_78:

(Start: 10 @48718 has 15 MA's), (12, 48769), (14, 48820), (15, 48844), (18, 48910),

Gene: Denise_70 Start: 41290, Stop: 41523, Start Num: 9

Candidate Starts for Denise_70:

(3, 41116), (Start: 9 @41290 has 1 MA's), (20, 41491),

Gene: Dusty_73 Start: 48313, Stop: 48537, Start Num: 10

Candidate Starts for Dusty_73:

(2, 48094), (4, 48154), (Start: 10 @48313 has 15 MA's), (13, 48406), (14, 48415), (15, 48439), (18, 48505),

Gene: Engineer_78 Start: 50086, Stop: 50310, Start Num: 10

Candidate Starts for Engineer_78:

(4, 49927), (Start: 10 @50086 has 15 MA's), (13, 50179), (14, 50188), (15, 50212), (18, 50278),

Gene: Lozinak_77 Start: 49924, Stop: 50148, Start Num: 10

Candidate Starts for Lozinak_77:

(4, 49765), (Start: 10 @49924 has 15 MA's), (13, 50017), (14, 50026), (15, 50050), (18, 50116),

Gene: MacGully_4 Start: 2136, Stop: 2372, Start Num: 11

Candidate Starts for MacGully_4:

(Start: 11 @2136 has 1 MA's), (17, 2322),

Gene: Norvs_77 Start: 49333, Stop: 49557, Start Num: 10

Candidate Starts for Norvs_77:

(4, 49174), (Start: 10 @49333 has 15 MA's), (13, 49426), (14, 49435), (15, 49459), (18, 49525),

Gene: OneUp_66 Start: 47205, Stop: 47426, Start Num: 10

Candidate Starts for OneUp_66:

(Start: 10 @47205 has 15 MA's), (14, 47307), (16, 47337), (19, 47403), (21, 47415),

Gene: Oregano_72 Start: 44621, Stop: 44854, Start Num: 10

Candidate Starts for Oregano_72:

(1, 43958), (5, 44450), (6, 44528), (7, 44531), (8, 44537), (Start: 10 @44621 has 15 MA's), (14, 44723),

Gene: PhinkBoden_76 Start: 49714, Stop: 49938, Start Num: 10

Candidate Starts for PhinkBoden_76:

(4, 49555), (Start: 10 @49714 has 15 MA's), (13, 49807), (14, 49816), (15, 49840), (18, 49906),

Gene: Smoothie_78 Start: 49924, Stop: 50148, Start Num: 10

Candidate Starts for Smoothie_78:

(4, 49765), (Start: 10 @49924 has 15 MA's), (13, 50017), (14, 50026), (15, 50050), (18, 50116),

Gene: Toniann_77 Start: 49276, Stop: 49500, Start Num: 10

Candidate Starts for Toniann_77:

(4, 49117), (Start: 10 @49276 has 15 MA's), (13, 49369), (14, 49378), (15, 49402), (18, 49468),

Gene: WilliamBoone_76 Start: 48024, Stop: 48248, Start Num: 10

Candidate Starts for WilliamBoone_76:

(Start: 10 @48024 has 15 MA's), (12, 48075), (14, 48126), (15, 48150), (18, 48216),