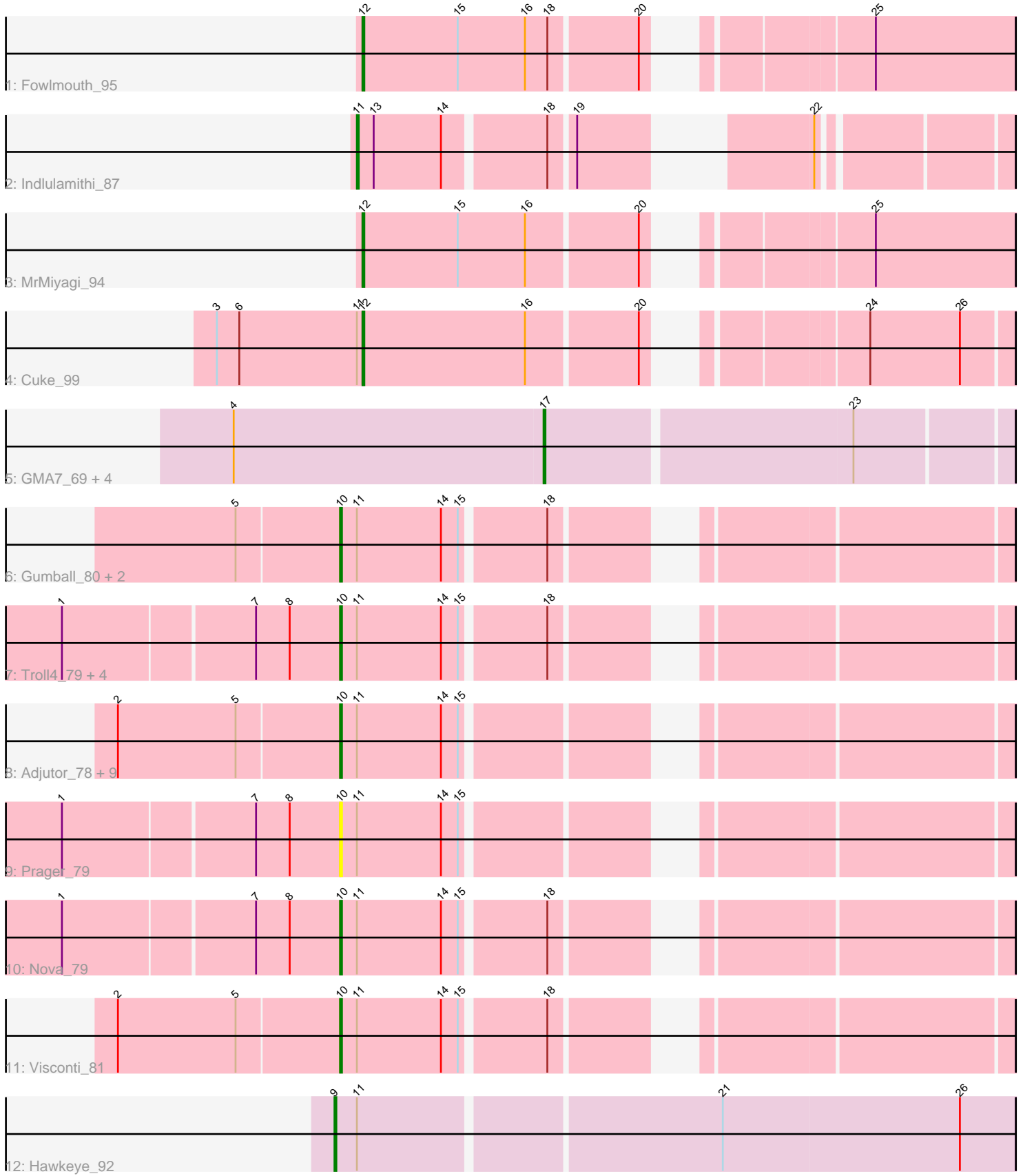


Pham 171669



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 171669 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171669 has 31 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Fowlmouth_95
- Track 2 : Indlulamithi_87
- Track 3 : MrMiyagi_94
- Track 4 : Cuke_99
- Track 5 : GMA7_69, Austin_79, Amore2_80, HayZem_81, GTE7_68
- Track 6 : Gumball_80, PLOT_80, SirHarley_82
- Track 7 : Troll4_79, Helpful_82, Mopey_81, KandZ_77, Giuseppe_81
- Track 8 : Adjutor_78, Thoth_80, WaldoWhy_82, PBI1_76, BigMama_78, Erk16_80, Chill_82, Delton_80, Butterscotch_78, Penelope2018_80
- Track 9 : Prager_79
- Track 10 : Nova_79
- Track 11 : Visconti_81
- Track 12 : Hawkeye_92

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 20 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjutor_78, BigMama_78, Butterscotch_78, Chill_82, Delton_80, Erk16_80, Giuseppe_81, Gumball_80, Helpful_82, KandZ_77, Mopey_81, Nova_79, PBI1_76, PLOT_80, Penelope2018_80, Prager_79, SirHarley_82, Thoth_80, Troll4_79, Visconti_81, WaldoWhy_82,

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

-

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

- Amore2_80, Austin_79, Cuke_99, Fowlmouth_95, GMA7_69, GTE7_68, Hawkeye_92, HayZem_81, Indlulamithi_87, MrMiyagi_94,

Summary by start number:

Start 9:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_92 (D2),

Start 10:

- Found in 21 of 31 (67.7%) of genes in pham
- Manual Annotations of this start: 20 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_78 (D1), BigMama_78 (D1), Butterscotch_78 (D1), Chill_82 (D1), Delton_80 (D1), Erk16_80 (D1), Giuseppe_81 (D1), Gumball_80 (D1), Helpful_82 (D1), KandZ_77 (D1), Mopey_81 (D1), Nova_79 (D1), PBI1_76 (D1), PLOT_80 (D1), Penelope2018_80 (D1), Prager_79 (D1), SirHarley_82 (D1), Thoth_80 (D1), Troll4_79 (D1), Visconti_81 (D1), WaldoWhy_82 (D1),

Start 11:

- Found in 24 of 31 (77.4%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 4.2% of time when present
- Phage (with cluster) where this start called: Indlulamithi_87 (AC),

Start 12:

- Found in 3 of 31 (9.7%) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke_99 (AC), Fowlmouth_95 (AC), MrMiyagi_94 (AC),

Start 17:

- Found in 5 of 31 (16.1%) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amore2_80 (CS1), Austin_79 (CS1), GMA7_69 (CS1), GTE7_68 (CS1), HayZem_81 (CS1),

Summary by clusters:

There are 4 clusters represented in this pham: CS1, AC, D2, D1,

Info for manual annotations of cluster AC:

- Start number 11 was manually annotated 1 time for cluster AC.
- Start number 12 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster CS1:

- Start number 17 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster D1:

- Start number 10 was manually annotated 20 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 9 was manually annotated 1 time for cluster D2.

Gene Information:

Gene: Adjutor_78 Start: 58520, Stop: 58834, Start Num: 10

Candidate Starts for Adjutor_78:

(2, 58403), (5, 58466), (Start: 10 @58520 has 20 MA's), (Start: 11 @58529 has 1 MA's), (14, 58574), (15, 58583),

Gene: Amore2_80 Start: 61514, Stop: 61275, Start Num: 17

Candidate Starts for Amore2_80:

(4, 61679), (Start: 17 @61514 has 3 MA's), (23, 61355),

Gene: Austin_79 Start: 61512, Stop: 61273, Start Num: 17

Candidate Starts for Austin_79:

(4, 61677), (Start: 17 @61512 has 3 MA's), (23, 61353),

Gene: BigMama_78 Start: 58605, Stop: 58919, Start Num: 10

Candidate Starts for BigMama_78:

(2, 58488), (5, 58551), (Start: 10 @58605 has 20 MA's), (Start: 11 @58614 has 1 MA's), (14, 58659), (15, 58668),

Gene: Butterscotch_78 Start: 58571, Stop: 58885, Start Num: 10

Candidate Starts for Butterscotch_78:

(2, 58454), (5, 58517), (Start: 10 @58571 has 20 MA's), (Start: 11 @58580 has 1 MA's), (14, 58625), (15, 58634),

Gene: Chill_82 Start: 58548, Stop: 58862, Start Num: 10

Candidate Starts for Chill_82:

(2, 58431), (5, 58494), (Start: 10 @58548 has 20 MA's), (Start: 11 @58557 has 1 MA's), (14, 58602), (15, 58611),

Gene: Cuke_99 Start: 56679, Stop: 56984, Start Num: 12

Candidate Starts for Cuke_99:

(3, 56601), (6, 56613), (Start: 11 @56676 has 1 MA's), (Start: 12 @56679 has 3 MA's), (16, 56766), (20, 56823), (24, 56910), (26, 56958),

Gene: Delton_80 Start: 58981, Stop: 59295, Start Num: 10

Candidate Starts for Delton_80:

(2, 58864), (5, 58927), (Start: 10 @58981 has 20 MA's), (Start: 11 @58990 has 1 MA's), (14, 59035), (15, 59044),

Gene: Erk16_80 Start: 58641, Stop: 58955, Start Num: 10

Candidate Starts for Erk16_80:

(2, 58524), (5, 58587), (Start: 10 @58641 has 20 MA's), (Start: 11 @58650 has 1 MA's), (14, 58695), (15, 58704),

Gene: Fowlmouth_95 Start: 57786, Stop: 58094, Start Num: 12

Candidate Starts for Fowlmouth_95:

(Start: 12 @57786 has 3 MA's), (15, 57837), (16, 57873), (18, 57885), (20, 57930), (25, 58020),

Gene: GMA7_69 Start: 55728, Stop: 55489, Start Num: 17

Candidate Starts for GMA7_69:

(4, 55893), (Start: 17 @55728 has 3 MA's), (23, 55569),

Gene: GTE7_68 Start: 55759, Stop: 55520, Start Num: 17

Candidate Starts for GTE7_68:

(4, 55924), (Start: 17 @55759 has 3 MA's), (23, 55600),

Gene: Giuseppe_81 Start: 58355, Stop: 58669, Start Num: 10

Candidate Starts for Giuseppe_81:

(1, 58211), (7, 58310), (8, 58328), (Start: 10 @58355 has 20 MA's), (Start: 11 @58364 has 1 MA's), (14, 58409), (15, 58418), (18, 58460),

Gene: Gumball_80 Start: 58986, Stop: 59300, Start Num: 10

Candidate Starts for Gumball_80:

(5, 58932), (Start: 10 @58986 has 20 MA's), (Start: 11 @58995 has 1 MA's), (14, 59040), (15, 59049), (18, 59091),

Gene: Hawkeye_92 Start: 60485, Stop: 60838, Start Num: 9

Candidate Starts for Hawkeye_92:

(Start: 9 @60485 has 1 MA's), (Start: 11 @60497 has 1 MA's), (21, 60683), (26, 60809),

Gene: HayZem_81 Start: 61512, Stop: 61273, Start Num: 17

Candidate Starts for HayZem_81:

(4, 61677), (Start: 17 @61512 has 3 MA's), (23, 61353),

Gene: Helpful_82 Start: 58743, Stop: 59057, Start Num: 10

Candidate Starts for Helpful_82:

(1, 58599), (7, 58698), (8, 58716), (Start: 10 @58743 has 20 MA's), (Start: 11 @58752 has 1 MA's), (14, 58797), (15, 58806), (18, 58848),

Gene: Indlulamithi_87 Start: 59764, Stop: 60048, Start Num: 11

Candidate Starts for Indlulamithi_87:

(Start: 11 @59764 has 1 MA's), (13, 59773), (14, 59809), (18, 59860), (19, 59872), (22, 59956),

Gene: KandZ_77 Start: 58571, Stop: 58885, Start Num: 10

Candidate Starts for KandZ_77:

(1, 58427), (7, 58526), (8, 58544), (Start: 10 @58571 has 20 MA's), (Start: 11 @58580 has 1 MA's), (14, 58625), (15, 58634), (18, 58676),

Gene: Mopey_81 Start: 58381, Stop: 58695, Start Num: 10

Candidate Starts for Mopey_81:

(1, 58237), (7, 58336), (8, 58354), (Start: 10 @58381 has 20 MA's), (Start: 11 @58390 has 1 MA's), (14, 58435), (15, 58444), (18, 58486),

Gene: MrMiyagi_94 Start: 58054, Stop: 58362, Start Num: 12

Candidate Starts for MrMiyagi_94:

(Start: 12 @58054 has 3 MA's), (15, 58105), (16, 58141), (20, 58198), (25, 58288),

Gene: Nova_79 Start: 58848, Stop: 59162, Start Num: 10

Candidate Starts for Nova_79:

(1, 58704), (7, 58803), (8, 58821), (Start: 10 @58848 has 20 MA's), (Start: 11 @58857 has 1 MA's), (14, 58902), (15, 58911), (18, 58953),

Gene: PBI1_76 Start: 58502, Stop: 58816, Start Num: 10

Candidate Starts for PBI1_76:

(2, 58385), (5, 58448), (Start: 10 @58502 has 20 MA's), (Start: 11 @58511 has 1 MA's), (14, 58556), (15, 58565),

Gene: PLOT_80 Start: 58539, Stop: 58853, Start Num: 10

Candidate Starts for PLOT_80:

(5, 58485), (Start: 10 @58539 has 20 MA's), (Start: 11 @58548 has 1 MA's), (14, 58593), (15, 58602), (18, 58644),

Gene: Penelope2018_80 Start: 58570, Stop: 58884, Start Num: 10

Candidate Starts for Penelope2018_80:

(2, 58453), (5, 58516), (Start: 10 @58570 has 20 MA's), (Start: 11 @58579 has 1 MA's), (14, 58624), (15, 58633),

Gene: Prager_79 Start: 58475, Stop: 58789, Start Num: 10

Candidate Starts for Prager_79:

(1, 58331), (7, 58430), (8, 58448), (Start: 10 @58475 has 20 MA's), (Start: 11 @58484 has 1 MA's), (14, 58529), (15, 58538),

Gene: SirHarley_82 Start: 58970, Stop: 59284, Start Num: 10

Candidate Starts for SirHarley_82:

(5, 58916), (Start: 10 @58970 has 20 MA's), (Start: 11 @58979 has 1 MA's), (14, 59024), (15, 59033), (18, 59075),

Gene: Thoth_80 Start: 58624, Stop: 58938, Start Num: 10

Candidate Starts for Thoth_80:

(2, 58507), (5, 58570), (Start: 10 @58624 has 20 MA's), (Start: 11 @58633 has 1 MA's), (14, 58678), (15, 58687),

Gene: Troll4_79 Start: 58537, Stop: 58851, Start Num: 10

Candidate Starts for Troll4_79:

(1, 58393), (7, 58492), (8, 58510), (Start: 10 @58537 has 20 MA's), (Start: 11 @58546 has 1 MA's), (14, 58591), (15, 58600), (18, 58642),

Gene: Visconti_81 Start: 58585, Stop: 58899, Start Num: 10

Candidate Starts for Visconti_81:

(2, 58468), (5, 58531), (Start: 10 @58585 has 20 MA's), (Start: 11 @58594 has 1 MA's), (14, 58639), (15, 58648), (18, 58690),

Gene: WaldoWhy_82 Start: 58548, Stop: 58862, Start Num: 10

Candidate Starts for WaldoWhy_82:

(2, 58431), (5, 58494), (Start: 10 @58548 has 20 MA's), (Start: 11 @58557 has 1 MA's), (14, 58602), (15, 58611),