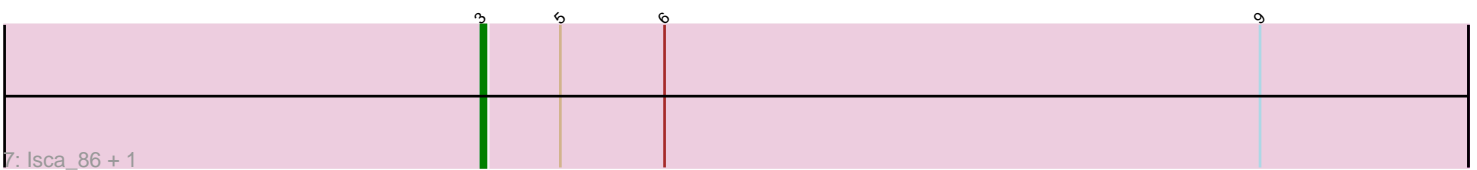
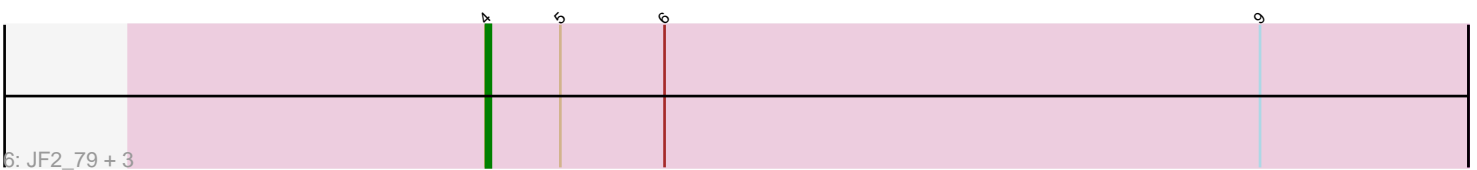
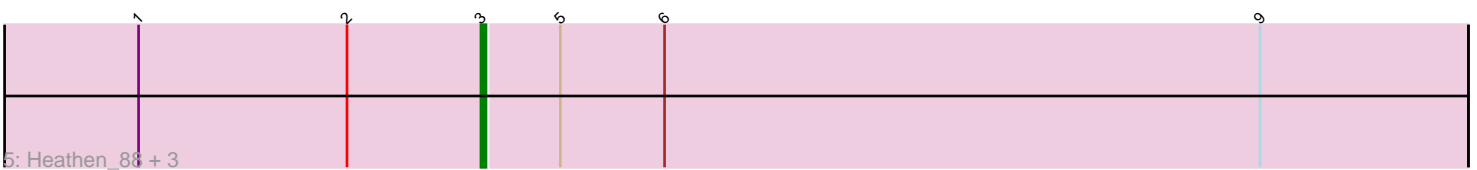
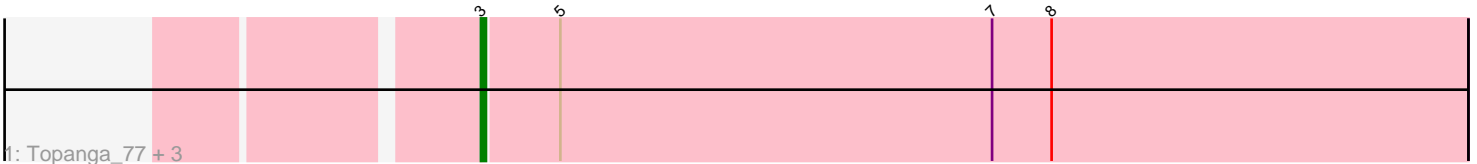


Pham 2531



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 2531 Report

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

Pham number 2531 has 39 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Topanga_77, Edison31_71, Twister_88, WalterMcMickey_87
- Track 2 : Hookmount_88, Caviar_77, Popcicle_88, Lambert1_88, Todacoro_88, QuinnKiro_87, Veracruz_85, ResDef_86, Pocahontas_87, Norbert_84, Noella_89, Margo_88, Texage_86
- Track 3 : Puppy_90, TNguyen7_90, BlueBird_91, Pistachio_89, Bugatti_90, SaturnRing_90, Giroux_87, Idleandcovert_85
- Track 4 : Rockstar_78, MA5_83
- Track 5 : Heathen_88, Fred313_86, Scout_88, HelDan_88
- Track 6 : JF2_79, B1_72, MK4_77, JF4_79
- Track 7 : Isca_86, Phantastic_90
- Track 8 : Panamaxus_84
- Track 9 : BabyRay_90

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 29 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BabyRay_90, BlueBird_91, Bugatti_90, Caviar_77, Edison31_71, Fred313_86, Giroux_87, Heathen_88, HelDan_88, Hookmount_88, Idleandcovert_85, Isca_86, Lambert1_88, MA5_83, Margo_88, Noella_89, Norbert_84, Phantastic_90, Pistachio_89, Pocahontas_87, Popcicle_88, Puppy_90, QuinnKiro_87, ResDef_86, Rockstar_78, SaturnRing_90, Scout_88, TNguyen7_90, Texage_86, Todacoro_88, Topanga_77, Twister_88, Veracruz_85, WalterMcMickey_87,

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

- Panamaxus_84,

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

- B1_72, JF2_79, JF4_79, MK4_77,

Summary by start number:

Start 3:

- Found in 35 of 39 (89.7%) of genes in pham
- Manual Annotations of this start: 29 of 34
- Called 97.1% of time when present
- Phage (with cluster) where this start called: BabyRay_90 (A3), BlueBird_91 (A3), Bugatti_90 (A3), Caviar_77 (A3), Edison31_71 (A10), Fred313_86 (A3), Giroux_87 (A3), Heathen_88 (A3), HelDan_88 (A3), Hookmount_88 (A3), Idleandcovert_85 (A3), Isca_86 (A3), Lambert1_88 (A3), MA5_83 (A3), Margo_88 (A3), Noella_89 (A3), Norbert_84 (A3), Phantastic_90 (A3), Pistachio_89 (A3), Pocahontas_87 (A3), Popcicle_88 (A3), Puppy_90 (A3), QuinnKiro_87 (A3), ResDef_86 (A3), Rockstar_78 (A3), SaturnRing_90 (A3), Scout_88 (A3), TNguyen7_90 (A3), Texage_86 (A3), Todacoro_88 (A3), Topanga_77 (A10), Twister_88 (A10), Veracruz_85 (A3), WalterMcMickey_87 (A10),

Start 4:

- Found in 4 of 39 (10.3%) of genes in pham
- Manual Annotations of this start: 4 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: B1_72 (A3), JF2_79 (A3), JF4_79 (A3), MK4_77 (A3),

Start 5:

- Found in 31 of 39 (79.5%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 3.2% of time when present
- Phage (with cluster) where this start called: Panamaxus_84 (A3),

Summary by clusters:

There are 2 clusters represented in this pham: A3, A10,

Info for manual annotations of cluster A10:

- Start number 3 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A3:

- Start number 3 was manually annotated 26 times for cluster A3.
- Start number 4 was manually annotated 4 times for cluster A3.
- Start number 5 was manually annotated 1 time for cluster A3.

Gene Information:

Gene: B1_72 Start: 44548, Stop: 44351, Start Num: 4

Candidate Starts for B1_72:

(Start: 4 @44548 has 4 MA's), (Start: 5 @44533 has 1 MA's), (6, 44512), (9, 44392),

Gene: BabyRay_90 Start: 49257, Stop: 49060, Start Num: 3

Candidate Starts for BabyRay_90:

(2, 49284), (Start: 3 @49257 has 29 MA's), (Start: 5 @49242 has 1 MA's), (6, 49221), (9, 49101),

Gene: BlueBird_91 Start: 49049, Stop: 48852, Start Num: 3

Candidate Starts for BlueBird_91:

(1, 49118), (Start: 3 @49049 has 29 MA's), (9, 48893),

Gene: Bugatti_90 Start: 49049, Stop: 48852, Start Num: 3

Candidate Starts for Bugatti_90:

(1, 49118), (Start: 3 @49049 has 29 MA's), (9, 48893),

Gene: Caviar_77 Start: 45678, Stop: 45481, Start Num: 3

Candidate Starts for Caviar_77:

(Start: 3 @45678 has 29 MA's), (Start: 5 @45663 has 1 MA's), (9, 45522), (10, 45510),

Gene: Edison31_71 Start: 45954, Stop: 45757, Start Num: 3

Candidate Starts for Edison31_71:

(Start: 3 @45954 has 29 MA's), (Start: 5 @45939 has 1 MA's), (7, 45852), (8, 45840),

Gene: Fred313_86 Start: 48651, Stop: 48454, Start Num: 3

Candidate Starts for Fred313_86:

(1, 48720), (2, 48678), (Start: 3 @48651 has 29 MA's), (Start: 5 @48636 has 1 MA's), (6, 48615), (9, 48495),

Gene: Giroux_87 Start: 49048, Stop: 48851, Start Num: 3

Candidate Starts for Giroux_87:

(1, 49117), (Start: 3 @49048 has 29 MA's), (9, 48892),

Gene: Heathen_88 Start: 48739, Stop: 48542, Start Num: 3

Candidate Starts for Heathen_88:

(1, 48808), (2, 48766), (Start: 3 @48739 has 29 MA's), (Start: 5 @48724 has 1 MA's), (6, 48703), (9, 48583),

Gene: HelDan_88 Start: 48962, Stop: 48765, Start Num: 3

Candidate Starts for HelDan_88:

(1, 49031), (2, 48989), (Start: 3 @48962 has 29 MA's), (Start: 5 @48947 has 1 MA's), (6, 48926), (9, 48806),

Gene: Hookmount_88 Start: 48681, Stop: 48484, Start Num: 3

Candidate Starts for Hookmount_88:

(Start: 3 @48681 has 29 MA's), (Start: 5 @48666 has 1 MA's), (9, 48525), (10, 48513),

Gene: Idleandcovert_85 Start: 47749, Stop: 47552, Start Num: 3

Candidate Starts for Idleandcovert_85:

(1, 47818), (Start: 3 @47749 has 29 MA's), (9, 47593),

Gene: Isca_86 Start: 48560, Stop: 48363, Start Num: 3

Candidate Starts for Isca_86:

(Start: 3 @48560 has 29 MA's), (Start: 5 @48545 has 1 MA's), (6, 48524), (9, 48404),

Gene: JF2_79 Start: 44548, Stop: 44351, Start Num: 4

Candidate Starts for JF2_79:

(Start: 4 @44548 has 4 MA's), (Start: 5 @44533 has 1 MA's), (6, 44512), (9, 44392),

Gene: JF4_79 Start: 44548, Stop: 44351, Start Num: 4

Candidate Starts for JF4_79:

(Start: 4 @44548 has 4 MA's), (Start: 5 @44533 has 1 MA's), (6, 44512), (9, 44392),

Gene: Lambert1_88 Start: 48682, Stop: 48485, Start Num: 3

Candidate Starts for Lambert1_88:

(Start: 3 @48682 has 29 MA's), (Start: 5 @48667 has 1 MA's), (9, 48526), (10, 48514),

Gene: MA5_83 Start: 46490, Stop: 46293, Start Num: 3

Candidate Starts for MA5_83:

(1, 46559), (Start: 3 @46490 has 29 MA's), (Start: 5 @46475 has 1 MA's), (6, 46454), (9, 46334),

Gene: MK4_77 Start: 45121, Stop: 44924, Start Num: 4

Candidate Starts for MK4_77:

(Start: 4 @45121 has 4 MA's), (Start: 5 @45106 has 1 MA's), (6, 45085), (9, 44965),

Gene: Margo_88 Start: 48707, Stop: 48510, Start Num: 3

Candidate Starts for Margo_88:

(Start: 3 @48707 has 29 MA's), (Start: 5 @48692 has 1 MA's), (9, 48551), (10, 48539),

Gene: Noella_89 Start: 48683, Stop: 48486, Start Num: 3

Candidate Starts for Noella_89:

(Start: 3 @48683 has 29 MA's), (Start: 5 @48668 has 1 MA's), (9, 48527), (10, 48515),

Gene: Norbert_84 Start: 48680, Stop: 48483, Start Num: 3

Candidate Starts for Norbert_84:

(Start: 3 @48680 has 29 MA's), (Start: 5 @48665 has 1 MA's), (9, 48524), (10, 48512),

Gene: Panamaxus_84 Start: 48667, Stop: 48485, Start Num: 5

Candidate Starts for Panamaxus_84:

(Start: 3 @48682 has 29 MA's), (Start: 5 @48667 has 1 MA's), (9, 48526), (10, 48514),

Gene: Phantastic_90 Start: 48678, Stop: 48481, Start Num: 3

Candidate Starts for Phantastic_90:

(Start: 3 @48678 has 29 MA's), (Start: 5 @48663 has 1 MA's), (6, 48642), (9, 48522),

Gene: Pistachio_89 Start: 48599, Stop: 48402, Start Num: 3

Candidate Starts for Pistachio_89:

(1, 48668), (Start: 3 @48599 has 29 MA's), (9, 48443),

Gene: Pocahontas_87 Start: 48678, Stop: 48481, Start Num: 3

Candidate Starts for Pocahontas_87:

(Start: 3 @48678 has 29 MA's), (Start: 5 @48663 has 1 MA's), (9, 48522), (10, 48510),

Gene: Popcicle_88 Start: 48678, Stop: 48481, Start Num: 3

Candidate Starts for Popcicle_88:

(Start: 3 @48678 has 29 MA's), (Start: 5 @48663 has 1 MA's), (9, 48522), (10, 48510),

Gene: Puppy_90 Start: 48666, Stop: 48469, Start Num: 3

Candidate Starts for Puppy_90:

(1, 48735), (Start: 3 @48666 has 29 MA's), (9, 48510),

Gene: QuinnKiro_87 Start: 48681, Stop: 48484, Start Num: 3

Candidate Starts for QuinnKiro_87:

(Start: 3 @48681 has 29 MA's), (Start: 5 @48666 has 1 MA's), (9, 48525), (10, 48513),

Gene: ResDef_86 Start: 48684, Stop: 48487, Start Num: 3

Candidate Starts for ResDef_86:

(Start: 3 @48684 has 29 MA's), (Start: 5 @48669 has 1 MA's), (9, 48528), (10, 48516),

Gene: Rockstar_78 Start: 46368, Stop: 46171, Start Num: 3

Candidate Starts for Rockstar_78:

(1, 46437), (Start: 3 @46368 has 29 MA's), (Start: 5 @46353 has 1 MA's), (6, 46332), (9, 46212),

Gene: SaturnRing_90 Start: 49049, Stop: 48852, Start Num: 3

Candidate Starts for SaturnRing_90:

(1, 49118), (Start: 3 @49049 has 29 MA's), (9, 48893),

Gene: Scout_88 Start: 48202, Stop: 48005, Start Num: 3

Candidate Starts for Scout_88:

(1, 48271), (2, 48229), (Start: 3 @48202 has 29 MA's), (Start: 5 @48187 has 1 MA's), (6, 48166), (9, 48046),

Gene: TNguyen7_90 Start: 49007, Stop: 48810, Start Num: 3

Candidate Starts for TNguyen7_90:

(1, 49076), (Start: 3 @49007 has 29 MA's), (9, 48851),

Gene: Texage_86 Start: 48682, Stop: 48485, Start Num: 3

Candidate Starts for Texage_86:

(Start: 3 @48682 has 29 MA's), (Start: 5 @48667 has 1 MA's), (9, 48526), (10, 48514),

Gene: Todacoro_88 Start: 48681, Stop: 48484, Start Num: 3

Candidate Starts for Todacoro_88:

(Start: 3 @48681 has 29 MA's), (Start: 5 @48666 has 1 MA's), (9, 48525), (10, 48513),

Gene: Topanga_77 Start: 46755, Stop: 46558, Start Num: 3

Candidate Starts for Topanga_77:

(Start: 3 @46755 has 29 MA's), (Start: 5 @46740 has 1 MA's), (7, 46653), (8, 46641),

Gene: Twister_88 Start: 49969, Stop: 49772, Start Num: 3

Candidate Starts for Twister_88:

(Start: 3 @49969 has 29 MA's), (Start: 5 @49954 has 1 MA's), (7, 49867), (8, 49855),

Gene: Veracruz_85 Start: 48682, Stop: 48485, Start Num: 3

Candidate Starts for Veracruz_85:

(Start: 3 @48682 has 29 MA's), (Start: 5 @48667 has 1 MA's), (9, 48526), (10, 48514),

Gene: WalterMcMickey_87 Start: 49969, Stop: 49772, Start Num: 3

Candidate Starts for WalterMcMickey_87:

(Start: 3 @49969 has 29 MA's), (Start: 5 @49954 has 1 MA's), (7, 49867), (8, 49855),