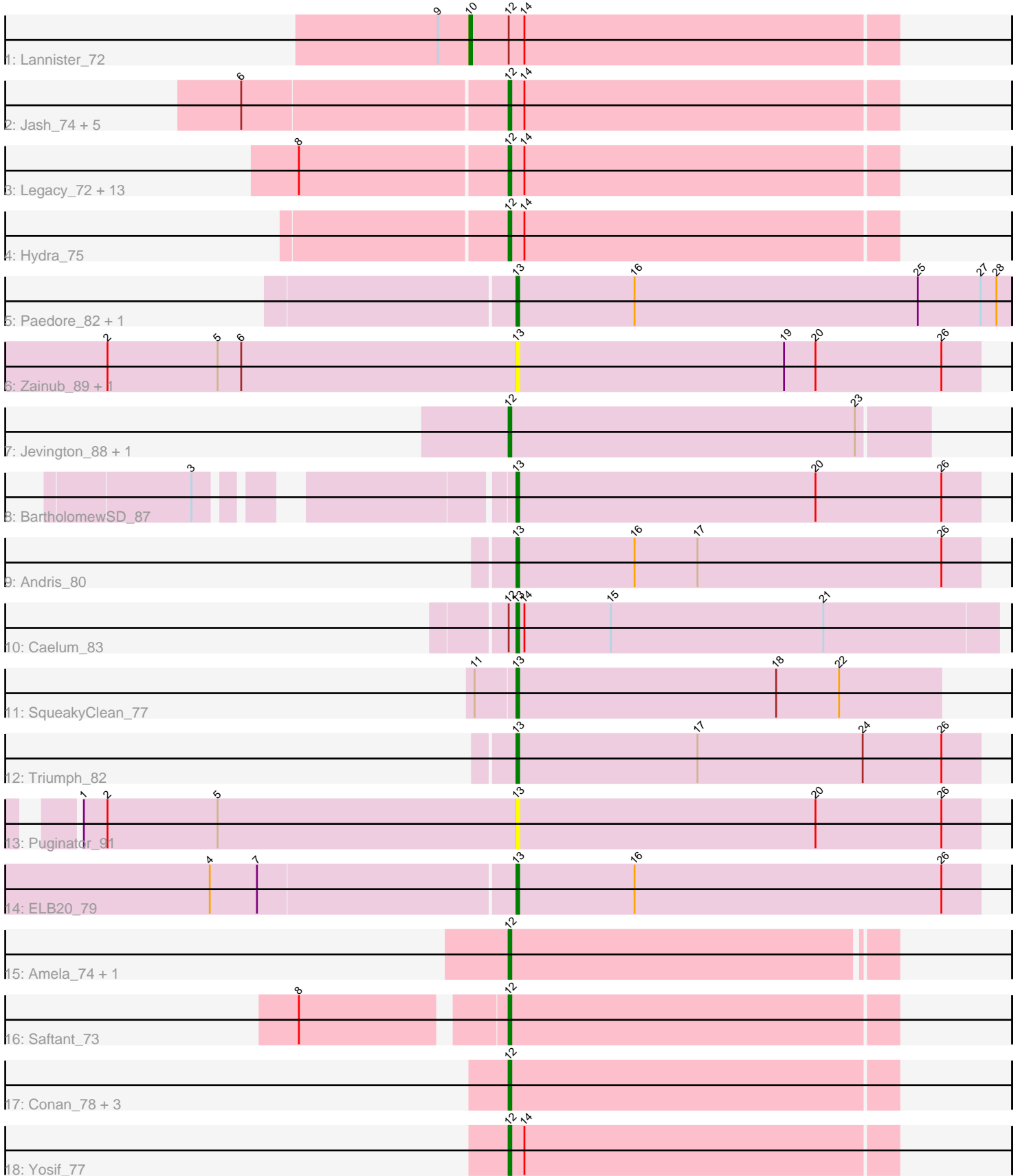


Pham 163716



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 163716 Report

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

Pham number 163716 has 43 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Lannister_72
- Track 2 : Jash_74, Rusticus_74, BryanRecycles_74, Bovely_72, Eddasa_75, Izzy_74
- Track 3 : Legacy_72, Unstoppable_72, Esperer_73, Nerdos_71, Leviticus_73, SunsetPointe_72, Ozzie_72, Aaronocolus_72, BeardedLady_73, Caliburn_71, Phettuccine_72, Indigo_71, EnochSoames_76, Oliynyk_74
- Track 4 : Hydra_75
- Track 5 : Paedore_82, Loofah_85
- Track 6 : Zainub_89, Paolo_85
- Track 7 : Jevington_88, Marav_83
- Track 8 : BartholomewSD_87
- Track 9 : Andris_80
- Track 10 : Caelum_83
- Track 11 : SqueakyClean_77
- Track 12 : Triumph_82
- Track 13 : Puginator_91
- Track 14 : ELB20_79
- Track 15 : Amela_74, Verse_75
- Track 16 : Saftant_73
- Track 17 : Conan_78, Provolone_76, Dexers_73, Alsaber_75
- Track 18 : Yosif_77

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

The start number called the most often in the published annotations is 12, it was called in 28 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aaronocolus_72, Alsaber_75, Amela_74, BeardedLady_73, Bovely_72, BryanRecycles_74, Caliburn_71, Conan_78, Dexers_73, Eddasa_75, EnochSoames_76, Esperer_73, Hydra_75, Indigo_71, Izzy_74, Jash_74, Jevington_88, Legacy_72, Leviticus_73, Marav_83, Nerdos_71, Oliynyk_74, Ozzie_72, Phettuccine_72, Provolone_76, Rusticus_74, Saftant_73, SunsetPointe_72, Unstoppable_72, Verse_75, Yosif_77,

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

- Caelum_83, Lannister_72,

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

- Andris_80, BartholomewSD_87, ELB20_79, Loofah_85, Paedore_82, Paolo_85, Puginator_91, SqueakyClean_77, Triumph_82, Zainub_89,

Summary by start number:

Start 10:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lannister_72 (BD1),

Start 12:

- Found in 33 of 43 (76.7%) of genes in pham
- Manual Annotations of this start: 28 of 36
- Called 93.9% of time when present
- Phage (with cluster) where this start called: Aaronocolus_72 (BD1), Alsaber_75 (BD3), Amela_74 (BD3), BeardedLady_73 (BD1), Bovely_72 (BD1), BryanRecycles_74 (BD1), Caliburn_71 (BD1), Conan_78 (BD3), Dexers_73 (BD3), Eddasa_75 (BD1), EnochSoames_76 (BD1), Esperer_73 (BD1), Hydra_75 (BD1), Indigo_71 (BD1), Izzy_74 (BD1), Jash_74 (BD1), Jevington_88 (BD2), Legacy_72 (BD1), Leviticus_73 (BD1), Marav_83 (BD2), Nerdos_71 (BD1), Oliynyk_74 (BD1), Ozzie_72 (BD1), Phettuccine_72 (BD1), Provolone_76 (BD3), Rusticus_74 (BD1), Saftant_73 (BD3), SunsetPointe_72 (BD1), Unstoppable_72 (BD1), Verse_75 (BD3), Yosif_77 (BD3),

Start 13:

- Found in 11 of 43 (25.6%) of genes in pham
- Manual Annotations of this start: 7 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Andris_80 (BD2), BartholomewSD_87 (BD2), Caelum_83 (BD2), ELB20_79 (BD2), Loofah_85 (BD2), Paedore_82 (BD2), Paolo_85 (BD2), Puginator_91 (BD2), SqueakyClean_77 (BD2), Triumph_82 (BD2), Zainub_89 (BD2),

Summary by clusters:

There are 3 clusters represented in this pham: BD1, BD3, BD2,

Info for manual annotations of cluster BD1:

- Start number 10 was manually annotated 1 time for cluster BD1.
- Start number 12 was manually annotated 20 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 12 was manually annotated 1 time for cluster BD2.
- Start number 13 was manually annotated 7 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 12 was manually annotated 7 times for cluster BD3.

Gene Information:

Gene: Aaronocolus_72 Start: 48130, Stop: 47984, Start Num: 12

Candidate Starts for Aaronocolus_72:

(8, 48208), (Start: 12 @48130 has 28 MA's), (14, 48124),

Gene: Alsaber_75 Start: 47405, Stop: 47259, Start Num: 12

Candidate Starts for Alsaber_75:

(Start: 12 @47405 has 28 MA's),

Gene: Amela_74 Start: 48160, Stop: 48017, Start Num: 12

Candidate Starts for Amela_74:

(Start: 12 @48160 has 28 MA's),

Gene: Andris_80 Start: 48874, Stop: 48698, Start Num: 13

Candidate Starts for Andris_80:

(Start: 13 @48874 has 7 MA's), (16, 48829), (17, 48805), (26, 48712),

Gene: BartholomewSD_87 Start: 50496, Stop: 50320, Start Num: 13

Candidate Starts for BartholomewSD_87:

(3, 50595), (Start: 13 @50496 has 7 MA's), (20, 50382), (26, 50334),

Gene: BeardedLady_73 Start: 48510, Stop: 48364, Start Num: 12

Candidate Starts for BeardedLady_73:

(8, 48588), (Start: 12 @48510 has 28 MA's), (14, 48504),

Gene: Bovely_72 Start: 48133, Stop: 47987, Start Num: 12

Candidate Starts for Bovely_72:

(6, 48232), (Start: 12 @48133 has 28 MA's), (14, 48127),

Gene: BryanRecycles_74 Start: 48636, Stop: 48490, Start Num: 12

Candidate Starts for BryanRecycles_74:

(6, 48735), (Start: 12 @48636 has 28 MA's), (14, 48630),

Gene: Caelum_83 Start: 48893, Stop: 48711, Start Num: 13

Candidate Starts for Caelum_83:

(Start: 12 @48896 has 28 MA's), (Start: 13 @48893 has 7 MA's), (14, 48890), (15, 48857), (21, 48776),

Gene: Caliburn_71 Start: 48518, Stop: 48372, Start Num: 12

Candidate Starts for Caliburn_71:

(8, 48596), (Start: 12 @48518 has 28 MA's), (14, 48512),

Gene: Conan_78 Start: 47657, Stop: 47511, Start Num: 12

Candidate Starts for Conan_78:

(Start: 12 @47657 has 28 MA's),

Gene: Dexers_73 Start: 47623, Stop: 47477, Start Num: 12

Candidate Starts for Dexers_73:

(Start: 12 @47623 has 28 MA's),

Gene: ELB20_79 Start: 49457, Stop: 49281, Start Num: 13
Candidate Starts for ELB20_79:
(4, 49571), (7, 49553), (Start: 13 @49457 has 7 MA's), (16, 49412), (26, 49295),

Gene: Eddasa_75 Start: 49175, Stop: 49029, Start Num: 12
Candidate Starts for Eddasa_75:
(6, 49274), (Start: 12 @49175 has 28 MA's), (14, 49169),

Gene: EnochSoames_76 Start: 48342, Stop: 48196, Start Num: 12
Candidate Starts for EnochSoames_76:
(8, 48420), (Start: 12 @48342 has 28 MA's), (14, 48336),

Gene: Esperer_73 Start: 48476, Stop: 48330, Start Num: 12
Candidate Starts for Esperer_73:
(8, 48554), (Start: 12 @48476 has 28 MA's), (14, 48470),

Gene: Hydra_75 Start: 49290, Stop: 49144, Start Num: 12
Candidate Starts for Hydra_75:
(Start: 12 @49290 has 28 MA's), (14, 49284),

Gene: Indigo_71 Start: 48126, Stop: 47980, Start Num: 12
Candidate Starts for Indigo_71:
(8, 48204), (Start: 12 @48126 has 28 MA's), (14, 48120),

Gene: Izzy_74 Start: 48683, Stop: 48537, Start Num: 12
Candidate Starts for Izzy_74:
(6, 48782), (Start: 12 @48683 has 28 MA's), (14, 48677),

Gene: Jash_74 Start: 48636, Stop: 48490, Start Num: 12
Candidate Starts for Jash_74:
(6, 48735), (Start: 12 @48636 has 28 MA's), (14, 48630),

Gene: Jevington_88 Start: 49837, Stop: 49679, Start Num: 12
Candidate Starts for Jevington_88:
(Start: 12 @49837 has 28 MA's), (23, 49705),

Gene: Lannister_72 Start: 48875, Stop: 48714, Start Num: 10
Candidate Starts for Lannister_72:
(9, 48887), (Start: 10 @48875 has 1 MA's), (Start: 12 @48860 has 28 MA's), (14, 48854),

Gene: Legacy_72 Start: 48509, Stop: 48363, Start Num: 12
Candidate Starts for Legacy_72:
(8, 48587), (Start: 12 @48509 has 28 MA's), (14, 48503),

Gene: Leviticus_73 Start: 48663, Stop: 48517, Start Num: 12
Candidate Starts for Leviticus_73:
(8, 48741), (Start: 12 @48663 has 28 MA's), (14, 48657),

Gene: Loofah_85 Start: 50694, Stop: 50506, Start Num: 13
Candidate Starts for Loofah_85:
(Start: 13 @50694 has 7 MA's), (16, 50649), (25, 50541), (27, 50517), (28, 50511),

Gene: Marav_83 Start: 49863, Stop: 49705, Start Num: 12
Candidate Starts for Marav_83:
(Start: 12 @49863 has 28 MA's), (23, 49731),

Gene: Nerdos_71 Start: 48125, Stop: 47979, Start Num: 12
Candidate Starts for Nerdos_71:
(8, 48203), (Start: 12 @48125 has 28 MA's), (14, 48119),

Gene: Oliynyk_74 Start: 48545, Stop: 48399, Start Num: 12
Candidate Starts for Oliynyk_74:
(8, 48623), (Start: 12 @48545 has 28 MA's), (14, 48539),

Gene: Ozzie_72 Start: 48518, Stop: 48372, Start Num: 12
Candidate Starts for Ozzie_72:
(8, 48596), (Start: 12 @48518 has 28 MA's), (14, 48512),

Gene: Paedore_82 Start: 50863, Stop: 50675, Start Num: 13
Candidate Starts for Paedore_82:
(Start: 13 @50863 has 7 MA's), (16, 50818), (25, 50710), (27, 50686), (28, 50680),

Gene: Paolo_85 Start: 49702, Stop: 49526, Start Num: 13
Candidate Starts for Paolo_85:
(2, 49858), (5, 49816), (6, 49807), (Start: 13 @49702 has 7 MA's), (19, 49600), (20, 49588), (26, 49540),

Gene: Phettuccine_72 Start: 48096, Stop: 47950, Start Num: 12
Candidate Starts for Phettuccine_72:
(8, 48174), (Start: 12 @48096 has 28 MA's), (14, 48090),

Gene: Provolone_76 Start: 47746, Stop: 47600, Start Num: 12
Candidate Starts for Provolone_76:
(Start: 12 @47746 has 28 MA's),

Gene: Puginator_91 Start: 49772, Stop: 49596, Start Num: 13
Candidate Starts for Puginator_91:
(1, 49937), (2, 49928), (5, 49886), (Start: 13 @49772 has 7 MA's), (20, 49658), (26, 49610),

Gene: Rusticus_74 Start: 48636, Stop: 48490, Start Num: 12
Candidate Starts for Rusticus_74:
(6, 48735), (Start: 12 @48636 has 28 MA's), (14, 48630),

Gene: Saftant_73 Start: 47439, Stop: 47293, Start Num: 12
Candidate Starts for Saftant_73:
(8, 47511), (Start: 12 @47439 has 28 MA's),

Gene: SqueakyClean_77 Start: 49262, Stop: 49101, Start Num: 13
Candidate Starts for SqueakyClean_77:
(11, 49277), (Start: 13 @49262 has 7 MA's), (18, 49163), (22, 49139),

Gene: SunsetPointe_72 Start: 48525, Stop: 48379, Start Num: 12
Candidate Starts for SunsetPointe_72:
(8, 48603), (Start: 12 @48525 has 28 MA's), (14, 48519),

Gene: Triumph_82 Start: 49644, Stop: 49468, Start Num: 13
Candidate Starts for Triumph_82:
(Start: 13 @49644 has 7 MA's), (17, 49575), (24, 49512), (26, 49482),

Gene: Unstoppable_72 Start: 48124, Stop: 47978, Start Num: 12
Candidate Starts for Unstoppable_72:
(8, 48202), (Start: 12 @48124 has 28 MA's), (14, 48118),

Gene: Verse_75 Start: 48198, Stop: 48055, Start Num: 12
Candidate Starts for Verse_75:
(Start: 12 @48198 has 28 MA's),

Gene: Yosif_77 Start: 48741, Stop: 48595, Start Num: 12
Candidate Starts for Yosif_77:
(Start: 12 @48741 has 28 MA's), (14, 48735),

Gene: Zainub_89 Start: 49882, Stop: 49706, Start Num: 13
Candidate Starts for Zainub_89:
(2, 50038), (5, 49996), (6, 49987), (Start: 13 @49882 has 7 MA's), (19, 49780), (20, 49768), (26, 49720),