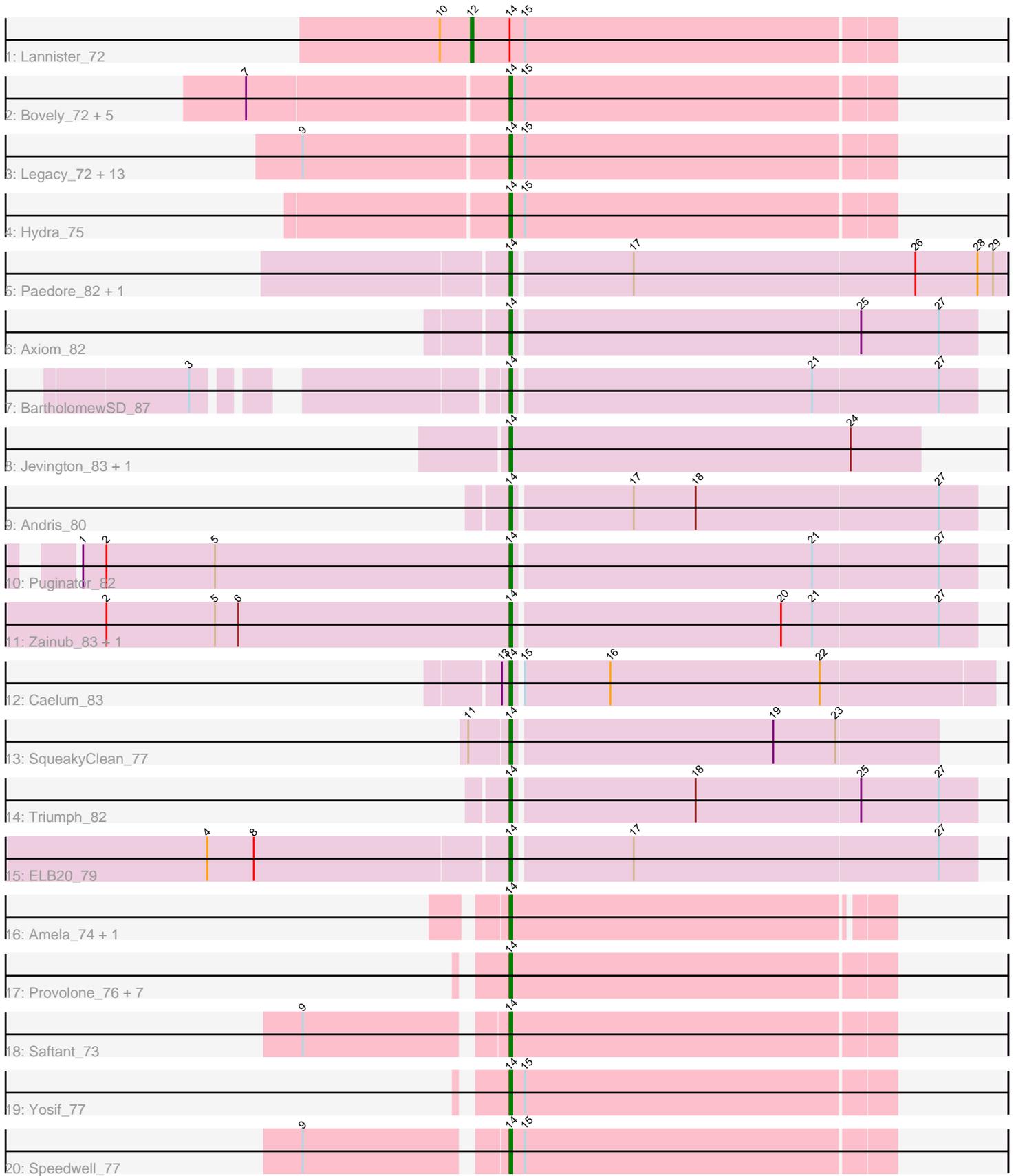# Pham 283908

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 283908 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283908 has 49 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Lannister_72
• Track 2 : Bovely_72, Rusticus_74, BryanRecycles_74, Jash_74, 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 : Axiom_82
• Track 7 : BartholomewSD_87
• Track 8 : Jevington_83, Marav_83
• Track 9 : Andris_80
• Track 10 : Puginator_82
• Track 11 : Zainub_83, Paolo_82
• Track 12 : Caelum_83
• Track 13 : SqueakyClean_77
• Track 14 : Triumph_82
• Track 15 : ELB20_79
• Track 16 : Amela_74, Verse_75
• Track 17 : Provolone_76, Pavo_76, Kaine_75, Conan_76, ZamZam_79, Sudan_77, Dexers_73, Alsaber_75
• Track 18 : Saftant_73
• Track 19 : Yosif_77
• Track 20 : Speedwell_77

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

The start number called the most often in the published annotations is 14, it was called in 45 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aaronocolus_72, Alsaber_75, Amela_74, Andris_80, Axiom_82, BartholomewSD_87, BeardedLady_73, Bovely_72, BryanRecycles_74, Caelum_83, Caliburn_71, Conan_76, Dexers_73, ELB20_79, Eddasa_75, EnochSoames_76,

Esperer_73, Hydra_75, Indigo_71, Izzy_74, Jash_74, Jevington_83, Kaine_75, Legacy_72, Leviticus_73, Loofah_85, Marav_83, Nerdos_71, Oliynyk_74, Ozzie_72, Paedore_82, Paolo_82, Pavo_76, Phettuccine_72, Provolone_76, Puginator_82, Rusticus_74, Saftant_73, Speedwell_77, SqueakyClean_77, Sudan_77, SunsetPointe_72, Triumph_82, Unstoppable_72, Verse_75, Yosif_77, Zainub_83, ZamZam_79,

Genes that have the "Most Annotated" start but do not call it:
• Lannister_72,

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

Summary by start number:

Start 12:
• Found in 1 of 49 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lannister_72 (BD1),

Start 14:
• Found in 49 of 49 (100.0%) of genes in pham
• Manual Annotations of this start: 45 of 46
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Aaronocolus_72 (BD1), Alsaber_75 (BD3), Amela_74 (BD3), Andris_80 (BD2), Axiom_82 (BD2), BartholomewSD_87 (BD2), BeardedLady_73 (BD1), Bovely_72 (BD1), BryanRecycles_74 (BD1), Caelum_83 (BD2), Caliburn_71 (BD1), Conan_76 (BD3), Dexers_73 (BD3), ELB20_79 (BD2), Eddasa_75 (BD1), EnochSoames_76 (BD1), Esperer_73 (BD1), Hydra_75 (BD1), Indigo_71 (BD1), Izzy_74 (BD1), Jash_74 (BD1), Jevington_83 (BD2), Kaine_75 (BD3), Legacy_72 (BD1), Leviticus_73 (BD1), Loofah_85 (BD2), Marav_83 (BD2), Nerdos_71 (BD1), Oliynyk_74 (BD1), Ozzie_72 (BD1), Paedore_82 (BD2), Paolo_82 (BD2), Pavo_76 (BD3), Phettuccine_72 (BD1), Provolone_76 (BD3), Puginator_82 (BD2), Rusticus_74 (BD1), Saftant_73 (BD3), Speedwell_77 (BD3), SqueakyClean_77 (BD2), Sudan_77 (BD3), SunsetPointe_72 (BD1), Triumph_82 (BD2), Unstoppable_72 (BD1), Verse_75 (BD3), Yosif_77 (BD3), Zainub_83 (BD2), ZamZam_79 (BD3),

Summary by clusters:

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

Info for manual annotations of cluster BD1:
•Start number 12 was manually annotated 1 time for cluster BD1.
•Start number 14 was manually annotated 20 times for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 14 was manually annotated 14 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 14 was manually annotated 11 times for cluster BD3.

Gene Information:

Gene: Aaronocolus_72 Start: 48130, Stop: 47984, Start Num: 14
Candidate Starts for Aaronocolus_72:
(9, 48208), (Start: 14 @48130 has 45 MA's), (15, 48124),

Gene: Alsaber_75 Start: 47405, Stop: 47259, Start Num: 14
Candidate Starts for Alsaber_75:
(Start: 14 @47405 has 45 MA's),

Gene: Amela_74 Start: 48160, Stop: 48017, Start Num: 14
Candidate Starts for Amela_74:
(Start: 14 @48160 has 45 MA's),

Gene: Andris_80 Start: 48874, Stop: 48698, Start Num: 14
Candidate Starts for Andris_80:
(Start: 14 @48874 has 45 MA's), (17, 48829), (18, 48805), (27, 48712),

Gene: Axiom_82 Start: 49884, Stop: 49708, Start Num: 14
Candidate Starts for Axiom_82:
(Start: 14 @49884 has 45 MA's), (25, 49752), (27, 49722),

Gene: BartholomewSD_87 Start: 50496, Stop: 50320, Start Num: 14
Candidate Starts for BartholomewSD_87:
(3, 50595), (Start: 14 @50496 has 45 MA's), (21, 50382), (27, 50334),

Gene: BeardedLady_73 Start: 48510, Stop: 48364, Start Num: 14
Candidate Starts for BeardedLady_73:
(9, 48588), (Start: 14 @48510 has 45 MA's), (15, 48504),

Gene: Bovely_72 Start: 48133, Stop: 47987, Start Num: 14
Candidate Starts for Bovely_72:
(7, 48232), (Start: 14 @48133 has 45 MA's), (15, 48127),

Gene: BryanRecycles_74 Start: 48636, Stop: 48490, Start Num: 14
Candidate Starts for BryanRecycles_74:
(7, 48735), (Start: 14 @48636 has 45 MA's), (15, 48630),

Gene: Caelum_83 Start: 48893, Stop: 48711, Start Num: 14
Candidate Starts for Caelum_83:
(13, 48896), (Start: 14 @48893 has 45 MA's), (15, 48890), (16, 48857), (22, 48776),

Gene: Caliburn_71 Start: 48518, Stop: 48372, Start Num: 14
Candidate Starts for Caliburn_71:
(9, 48596), (Start: 14 @48518 has 45 MA's), (15, 48512),

Gene: Conan_76 Start: 47657, Stop: 47511, Start Num: 14
Candidate Starts for Conan_76:
(Start: 14 @47657 has 45 MA's),

Gene: Dexers_73 Start: 47623, Stop: 47477, Start Num: 14

Candidate Starts for Dexers_73:
(Start: 14 @47623 has 45 MA's),

Gene: ELB20_79 Start: 49457, Stop: 49281, Start Num: 14
Candidate Starts for ELB20_79:
(4, 49571), (8, 49553), (Start: 14 @49457 has 45 MA's), (17, 49412), (27, 49295),

Gene: Eddasa_75 Start: 49175, Stop: 49029, Start Num: 14
Candidate Starts for Eddasa_75:
(7, 49274), (Start: 14 @49175 has 45 MA's), (15, 49169),

Gene: EnochSoames_76 Start: 48342, Stop: 48196, Start Num: 14
Candidate Starts for EnochSoames_76:
(9, 48420), (Start: 14 @48342 has 45 MA's), (15, 48336),

Gene: Esperer_73 Start: 48476, Stop: 48330, Start Num: 14
Candidate Starts for Esperer_73:
(9, 48554), (Start: 14 @48476 has 45 MA's), (15, 48470),

Gene: Hydra_75 Start: 49290, Stop: 49144, Start Num: 14
Candidate Starts for Hydra_75:
(Start: 14 @49290 has 45 MA's), (15, 49284),

Gene: Indigo_71 Start: 48126, Stop: 47980, Start Num: 14
Candidate Starts for Indigo_71:
(9, 48204), (Start: 14 @48126 has 45 MA's), (15, 48120),

Gene: Izzy_74 Start: 48683, Stop: 48537, Start Num: 14
Candidate Starts for Izzy_74:
(7, 48782), (Start: 14 @48683 has 45 MA's), (15, 48677),

Gene: Jash_74 Start: 48636, Stop: 48490, Start Num: 14
Candidate Starts for Jash_74:
(7, 48735), (Start: 14 @48636 has 45 MA's), (15, 48630),

Gene: Jevington_83 Start: 49837, Stop: 49679, Start Num: 14
Candidate Starts for Jevington_83:
(Start: 14 @49837 has 45 MA's), (24, 49705),

Gene: Kaine_75 Start: 47429, Stop: 47283, Start Num: 14
Candidate Starts for Kaine_75:
(Start: 14 @47429 has 45 MA's),

Gene: Lannister_72 Start: 48875, Stop: 48714, Start Num: 12
Candidate Starts for Lannister_72:
(10, 48887), (Start: 12 @48875 has 1 MA's), (Start: 14 @48860 has 45 MA's), (15, 48854),

Gene: Legacy_72 Start: 48509, Stop: 48363, Start Num: 14
Candidate Starts for Legacy_72:
(9, 48587), (Start: 14 @48509 has 45 MA's), (15, 48503),

Gene: Leviticus_73 Start: 48663, Stop: 48517, Start Num: 14
Candidate Starts for Leviticus_73:

(9, 48741), (Start: 14 @48663 has 45 MA's), (15, 48657),

Gene: Loofah_85 Start: 50694, Stop: 50506, Start Num: 14
Candidate Starts for Loofah_85:
(Start: 14 @50694 has 45 MA's), (17, 50649), (26, 50541), (28, 50517), (29, 50511),

Gene: Marav_83 Start: 49863, Stop: 49705, Start Num: 14
Candidate Starts for Marav_83:
(Start: 14 @49863 has 45 MA's), (24, 49731),

Gene: Nerdos_71 Start: 48125, Stop: 47979, Start Num: 14
Candidate Starts for Nerdos_71:
(9, 48203), (Start: 14 @48125 has 45 MA's), (15, 48119),

Gene: Oliynyk_74 Start: 48545, Stop: 48399, Start Num: 14
Candidate Starts for Oliynyk_74:
(9, 48623), (Start: 14 @48545 has 45 MA's), (15, 48539),

Gene: Ozzie_72 Start: 48518, Stop: 48372, Start Num: 14
Candidate Starts for Ozzie_72:
(9, 48596), (Start: 14 @48518 has 45 MA's), (15, 48512),

Gene: Paedore_82 Start: 50863, Stop: 50675, Start Num: 14
Candidate Starts for Paedore_82:
(Start: 14 @50863 has 45 MA's), (17, 50818), (26, 50710), (28, 50686), (29, 50680),

Gene: Paolo_82 Start: 49702, Stop: 49526, Start Num: 14
Candidate Starts for Paolo_82:
(2, 49858), (5, 49816), (6, 49807), (Start: 14 @49702 has 45 MA's), (20, 49600), (21, 49588), (27, 49540),

Gene: Pavo_76 Start: 47605, Stop: 47459, Start Num: 14
Candidate Starts for Pavo_76:
(Start: 14 @47605 has 45 MA's),

Gene: Phettuccine_72 Start: 48096, Stop: 47950, Start Num: 14
Candidate Starts for Phettuccine_72:
(9, 48174), (Start: 14 @48096 has 45 MA's), (15, 48090),

Gene: Provolone_76 Start: 47746, Stop: 47600, Start Num: 14
Candidate Starts for Provolone_76:
(Start: 14 @47746 has 45 MA's),

Gene: Puginator_82 Start: 49772, Stop: 49596, Start Num: 14
Candidate Starts for Puginator_82:
(1, 49937), (2, 49928), (5, 49886), (Start: 14 @49772 has 45 MA's), (21, 49658), (27, 49610),

Gene: Rusticus_74 Start: 48636, Stop: 48490, Start Num: 14
Candidate Starts for Rusticus_74:
(7, 48735), (Start: 14 @48636 has 45 MA's), (15, 48630),

Gene: Saftant_73 Start: 47439, Stop: 47293, Start Num: 14
Candidate Starts for Saftant_73:

(9, 47511), (Start: 14 @47439 has 45 MA's),

Gene: Speedwell_77 Start: 48345, Stop: 48199, Start Num: 14
Candidate Starts for Speedwell_77:
(9, 48417), (Start: 14 @48345 has 45 MA's), (15, 48339),

Gene: SqueakyClean_77 Start: 49262, Stop: 49101, Start Num: 14
Candidate Starts for SqueakyClean_77:
(11, 49277), (Start: 14 @49262 has 45 MA's), (19, 49163), (23, 49139),

Gene: Sudan_77 Start: 47412, Stop: 47266, Start Num: 14
Candidate Starts for Sudan_77:
(Start: 14 @47412 has 45 MA's),

Gene: SunsetPointe_72 Start: 48525, Stop: 48379, Start Num: 14
Candidate Starts for SunsetPointe_72:
(9, 48603), (Start: 14 @48525 has 45 MA's), (15, 48519),

Gene: Triumph_82 Start: 49644, Stop: 49468, Start Num: 14
Candidate Starts for Triumph_82:
(Start: 14 @49644 has 45 MA's), (18, 49575), (25, 49512), (27, 49482),

Gene: Unstoppable_72 Start: 48124, Stop: 47978, Start Num: 14
Candidate Starts for Unstoppable_72:
(9, 48202), (Start: 14 @48124 has 45 MA's), (15, 48118),

Gene: Verse_75 Start: 48198, Stop: 48055, Start Num: 14
Candidate Starts for Verse_75:
(Start: 14 @48198 has 45 MA's),

Gene: Yosif_77 Start: 48741, Stop: 48595, Start Num: 14
Candidate Starts for Yosif_77:
(Start: 14 @48741 has 45 MA's), (15, 48735),

Gene: Zainub_83 Start: 49882, Stop: 49706, Start Num: 14
Candidate Starts for Zainub_83:
(2, 50038), (5, 49996), (6, 49987), (Start: 14 @49882 has 45 MA's), (20, 49780), (21, 49768), (27, 49720),

Gene: ZamZam_79 Start: 47749, Stop: 47603, Start Num: 14
Candidate Starts for ZamZam_79:
(Start: 14 @47749 has 45 MA's),