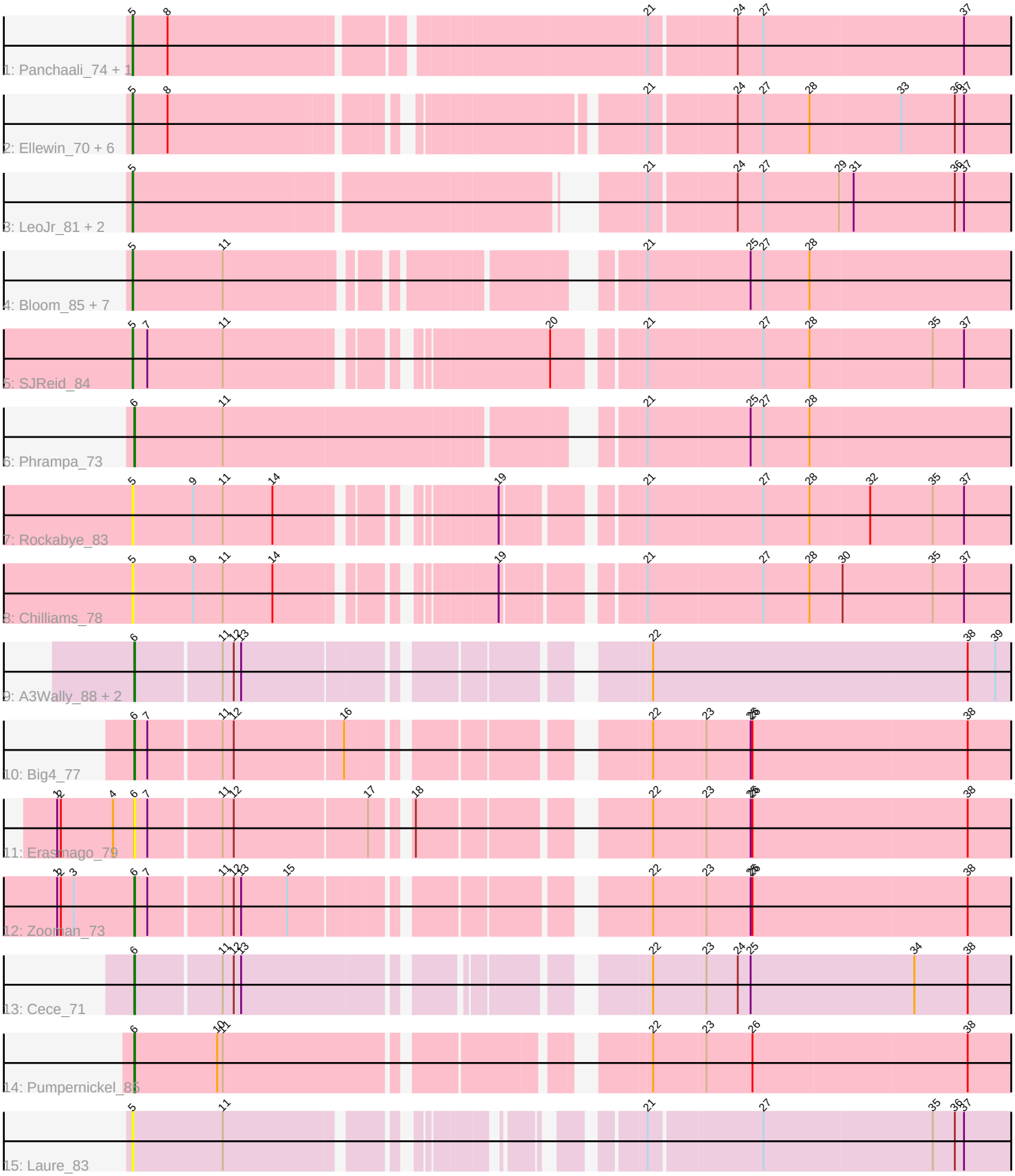
Zoomed Pham 301519



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 301519 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301519 has 33 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Panchaali_74, Stewart25555_72
• Track 2 : Ellewin_70, KSunshine22_76, Emmetator_74, WaddleDee_69, BooTeria_78, Artu_74, DunneganBoMo_71
• Track 3 : LeoJr_81, Atuin_76, ReginaGlobina_81
• Track 4 : Bloom_85, FrostedClock_84, Patbob_80, FloraSnap32_81, GoldenEssence_67, Racecar_82, Talia1610_81, Mimi_81
• Track 5 : SJReid_84
• Track 6 : Phrampa_73
• Track 7 : Rockabye_83
• Track 8 : Chilliams_78
• Track 9 : A3Wally_88, PauloDiaboli_88, Dodo_90
• Track 10 : Big4_77
• Track 11 : Erasmago_79
• Track 12 : Zooman_73
• Track 13 : Cece_71
• Track 14 : Pumpernickel_85
• Track 15 : Laure_83

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

The start number called the most often in the published annotations is 5, it was called in 11 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_74, Atuin_76, Bloom_85, BooTeria_78, Chilliams_78, DunneganBoMo_71, Ellewin_70, Emmetator_74, FloraSnap32_81, FrostedClock_84, GoldenEssence_67, KSunshine22_76, Laure_83, LeoJr_81, Mimi_81, Panchaali_74, Patbob_80, Racecar_82, ReginaGlobina_81, Rockabye_83, SJReid_84, Stewart25555_72, Talia1610_81, WaddleDee_69,

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

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

• A3Wally_88, Big4_77, Cece_71, Dodo_90, Erasmago_79, PauloDiaboli_88, Phrampa_73, Pumpernickel_85, Zooman_73,

Summary by start number:

Start 5:
• Found in 24 of 33 (72.7%) of genes in pham
• Manual Annotations of this start: 11 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_74 (FC), Atuin_76 (FC), Bloom_85 (FC), BooTeria_78 (FC), Chilliams_78 (FC), DunneganBoMo_71 (FC), Ellewin_70 (FC), Emmetator_74 (FC), FloraSnap32_81 (FC), FrostedClock_84 (FC), GoldenEssence_67 (FC), KSunshine22_76 (FC), Laure_83 (UNK), LeoJr_81 (FC), Mimi_81 (FC), Panchaali_74 (FC), Patbob_80 (FC), Racecar_82 (FC), ReginaGlobina_81 (FC), Rockabye_83 (FC), SJReid_84 (FC), Stewart25555_72 (FC), Talia1610_81 (FC), WaddleDee_69 (FC),

Start 6:
• Found in 9 of 33 (27.3%) of genes in pham
• Manual Annotations of this start: 8 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_88 (GD1), Big4_77 (GD2), Cece_71 (GD3), Dodo_90 (GD1), Erasmago_79 (GD2), PauloDiaboli_88 (GD1), Phrampa_73 (FC), Pumpernickel_85 (GD4), Zooman_73 (GD2),

Summary by clusters:

There are 6 clusters represented in this pham: GD1, GD2, GD3, GD4, FC, UNK,

Info for manual annotations of cluster FC:
•Start number 5 was manually annotated 11 times for cluster FC.
•Start number 6 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 6 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 6 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 6 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 6 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_88 Start: 44936, Stop: 46945, Start Num: 6
Candidate Starts for A3Wally_88:

(Start: 6 @44936 has 8 MA's), (11, 45071), (12, 45089), (13, 45101), (22, 45644), (38, 46154), (39, 46199), (43, 46565), (45, 46631), (46, 46640), (50, 46835),

Gene: Artu_74 Start: 44186, Stop: 46189, Start Num: 5
Candidate Starts for Artu_74:
(Start: 5 @44186 has 11 MA's), (8, 44240), (21, 44894), (24, 45029), (27, 45071), (28, 45146), (33, 45293), (36, 45380), (37, 45395), (40, 45575),

Gene: Atuin_76 Start: 46811, Stop: 48820, Start Num: 5
Candidate Starts for Atuin_76:
(Start: 5 @46811 has 11 MA's), (21, 47525), (24, 47660), (27, 47702), (29, 47825), (31, 47846), (36, 48011), (37, 48026), (40, 48206), (49, 48632),

Gene: Big4_77 Start: 43780, Stop: 45789, Start Num: 6
Candidate Starts for Big4_77:
(Start: 6 @43780 has 8 MA's), (7, 43801), (11, 43915), (12, 43933), (16, 44107), (22, 44488), (23, 44572), (25, 44644), (26, 44647), (38, 44995), (43, 45406), (50, 45676),

Gene: Bloom_85 Start: 48235, Stop: 50229, Start Num: 5
Candidate Starts for Bloom_85:
(Start: 5 @48235 has 11 MA's), (11, 48379), (21, 48925), (25, 49090), (27, 49111), (28, 49186), (40, 49615), (44, 49912),

Gene: BooTeria_78 Start: 44254, Stop: 46257, Start Num: 5
Candidate Starts for BooTeria_78:
(Start: 5 @44254 has 11 MA's), (8, 44308), (21, 44962), (24, 45097), (27, 45139), (28, 45214), (33, 45361), (36, 45448), (37, 45463), (40, 45643),

Gene: Cece_71 Start: 39862, Stop: 41862, Start Num: 6
Candidate Starts for Cece_71:
(Start: 6 @39862 has 8 MA's), (11, 39997), (12, 40015), (13, 40027), (22, 40564), (23, 40648), (24, 40699), (25, 40720), (34, 40984), (38, 41071), (43, 41482), (45, 41548), (50, 41752),

Gene: Chilliams_78 Start: 50058, Stop: 52049, Start Num: 5
Candidate Starts for Chilliams_78:
(Start: 5 @50058 has 11 MA's), (9, 50154), (11, 50202), (14, 50283), (19, 50559), (21, 50745), (27, 50931), (28, 51006), (30, 51057), (35, 51204), (37, 51255), (40, 51435), (47, 51747),

Gene: Dodo_90 Start: 45258, Stop: 47267, Start Num: 6
Candidate Starts for Dodo_90:
(Start: 6 @45258 has 8 MA's), (11, 45393), (12, 45411), (13, 45423), (22, 45966), (38, 46476), (39, 46521), (43, 46887), (45, 46953), (46, 46962), (50, 47157),

Gene: DunneganBoMo_71 Start: 43679, Stop: 45682, Start Num: 5
Candidate Starts for DunneganBoMo_71:
(Start: 5 @43679 has 11 MA's), (8, 43733), (21, 44387), (24, 44522), (27, 44564), (28, 44639), (33, 44786), (36, 44873), (37, 44888), (40, 45068),

Gene: Ellewin_70 Start: 43274, Stop: 45277, Start Num: 5
Candidate Starts for Ellewin_70:
(Start: 5 @43274 has 11 MA's), (8, 43328), (21, 43982), (24, 44117), (27, 44159), (28, 44234), (33, 44381), (36, 44468), (37, 44483), (40, 44663),

Gene: Emmetator_74 Start: 44426, Stop: 46429, Start Num: 5
Candidate Starts for Emmetator_74:
(Start: 5 @44426 has 11 MA's), (8, 44480), (21, 45134), (24, 45269), (27, 45311), (28, 45386), (33, 45533), (36, 45620), (37, 45635), (40, 45815),

Gene: Erasmago_79 Start: 41432, Stop: 43444, Start Num: 6
Candidate Starts for Erasmago_79:
(1, 41312), (2, 41318), (4, 41399), (Start: 6 @41432 has 8 MA's), (7, 41453), (11, 41567), (12, 41585), (17, 41795), (18, 41837), (22, 42146), (23, 42230), (25, 42302), (26, 42305), (38, 42653), (43, 43064), (48, 43169), (50, 43334),

Gene: FloraSnap32_81 Start: 47272, Stop: 49266, Start Num: 5
Candidate Starts for FloraSnap32_81:
(Start: 5 @47272 has 11 MA's), (11, 47416), (21, 47962), (25, 48127), (27, 48148), (28, 48223), (40, 48652), (44, 48949),

Gene: FrostedClock_84 Start: 47723, Stop: 49717, Start Num: 5
Candidate Starts for FrostedClock_84:
(Start: 5 @47723 has 11 MA's), (11, 47867), (21, 48413), (25, 48578), (27, 48599), (28, 48674), (40, 49103), (44, 49400),

Gene: GoldenEssence_67 Start: 42028, Stop: 44022, Start Num: 5
Candidate Starts for GoldenEssence_67:
(Start: 5 @42028 has 11 MA's), (11, 42172), (21, 42718), (25, 42883), (27, 42904), (28, 42979), (40, 43408), (44, 43705),

Gene: KSunshine22_76 Start: 44913, Stop: 46916, Start Num: 5
Candidate Starts for KSunshine22_76:
(Start: 5 @44913 has 11 MA's), (8, 44967), (21, 45621), (24, 45756), (27, 45798), (28, 45873), (33, 46020), (36, 46107), (37, 46122), (40, 46302),

Gene: Laure_83 Start: 47867, Stop: 49807, Start Num: 5
Candidate Starts for Laure_83:
(Start: 5 @47867 has 11 MA's), (11, 48011), (21, 48521), (27, 48695), (35, 48968), (36, 49004), (37, 49019), (40, 49199), (41, 49376),

Gene: LeoJr_81 Start: 46939, Stop: 48948, Start Num: 5
Candidate Starts for LeoJr_81:
(Start: 5 @46939 has 11 MA's), (21, 47653), (24, 47788), (27, 47830), (29, 47953), (31, 47974), (36, 48139), (37, 48154), (40, 48334), (49, 48760),

Gene: Mimi_81 Start: 47582, Stop: 49576, Start Num: 5
Candidate Starts for Mimi_81:
(Start: 5 @47582 has 11 MA's), (11, 47726), (21, 48272), (25, 48437), (27, 48458), (28, 48533), (40, 48962), (44, 49259),

Gene: Panchaali_74 Start: 44604, Stop: 46667, Start Num: 5
Candidate Starts for Panchaali_74:
(Start: 5 @44604 has 11 MA's), (8, 44658), (21, 45372), (24, 45507), (27, 45549), (37, 45873), (40, 46053),

Gene: Patbob_80 Start: 48454, Stop: 50448, Start Num: 5
Candidate Starts for Patbob_80:

(Start: 5 @48454 has 11 MA's), (11, 48598), (21, 49144), (25, 49309), (27, 49330), (28, 49405), (40, 49834), (44, 50131),

Gene: PauloDiaboli_88 Start: 44293, Stop: 46302, Start Num: 6
Candidate Starts for PauloDiaboli_88:
(Start: 6 @44293 has 8 MA's), (11, 44428), (12, 44446), (13, 44458), (22, 45001), (38, 45511), (39, 45556), (43, 45922), (45, 45988), (46, 45997), (50, 46192),

Gene: Phrampa_73 Start: 45102, Stop: 47150, Start Num: 6
Candidate Starts for Phrampa_73:
(Start: 6 @45102 has 8 MA's), (11, 45246), (21, 45846), (25, 46011), (27, 46032), (28, 46107), (40, 46536), (42, 46716),

Gene: Pumpernickel_85 Start: 45481, Stop: 47517, Start Num: 6
Candidate Starts for Pumpernickel_85:
(Start: 6 @45481 has 8 MA's), (10, 45616), (11, 45625), (22, 46213), (23, 46297), (26, 46372), (38, 46717), (43, 47128), (50, 47404),

Gene: Racecar_82 Start: 48235, Stop: 50229, Start Num: 5
Candidate Starts for Racecar_82:
(Start: 5 @48235 has 11 MA's), (11, 48379), (21, 48925), (25, 49090), (27, 49111), (28, 49186), (40, 49615), (44, 49912),

Gene: ReginaGlobina_81 Start: 47691, Stop: 49700, Start Num: 5
Candidate Starts for ReginaGlobina_81:
(Start: 5 @47691 has 11 MA's), (21, 48405), (24, 48540), (27, 48582), (29, 48705), (31, 48726), (36, 48891), (37, 48906), (40, 49086), (49, 49512),

Gene: Rockabye_83 Start: 50410, Stop: 52398, Start Num: 5
Candidate Starts for Rockabye_83:
(Start: 5 @50410 has 11 MA's), (9, 50506), (11, 50554), (14, 50635), (19, 50911), (21, 51094), (27, 51280), (28, 51355), (32, 51451), (35, 51553), (37, 51604), (40, 51784), (49, 52210),

Gene: SJReid_84 Start: 49478, Stop: 51490, Start Num: 5
Candidate Starts for SJReid_84:
(Start: 5 @49478 has 11 MA's), (7, 49499), (11, 49622), (20, 50066), (21, 50186), (27, 50372), (28, 50447), (35, 50645), (37, 50696), (40, 50876), (47, 51188),

Gene: Stewart25555_72 Start: 44035, Stop: 46092, Start Num: 5
Candidate Starts for Stewart25555_72:
(Start: 5 @44035 has 11 MA's), (8, 44089), (21, 44797), (24, 44932), (27, 44974), (37, 45298), (40, 45478),

Gene: Talia1610_81 Start: 47600, Stop: 49594, Start Num: 5
Candidate Starts for Talia1610_81:
(Start: 5 @47600 has 11 MA's), (11, 47744), (21, 48290), (25, 48455), (27, 48476), (28, 48551), (40, 48980), (44, 49277),

Gene: WaddleDee_69 Start: 43531, Stop: 45537, Start Num: 5
Candidate Starts for WaddleDee_69:
(Start: 5 @43531 has 11 MA's), (8, 43585), (21, 44242), (24, 44377), (27, 44419), (28, 44494), (33, 44641), (36, 44728), (37, 44743), (40, 44923),

Gene: Zooman_73 Start: 42476, Stop: 44485, Start Num: 6
Candidate Starts for Zooman_73:
(1, 42350), (2, 42356), (3, 42377), (Start: 6 @42476 has 8 MA's), (7, 42497), (11, 42611), (12, 42629), (13, 42641), (15, 42716), (22, 43187), (23, 43271), (25, 43343), (26, 43346), (38, 43694), (43, 44105), (50, 44375),