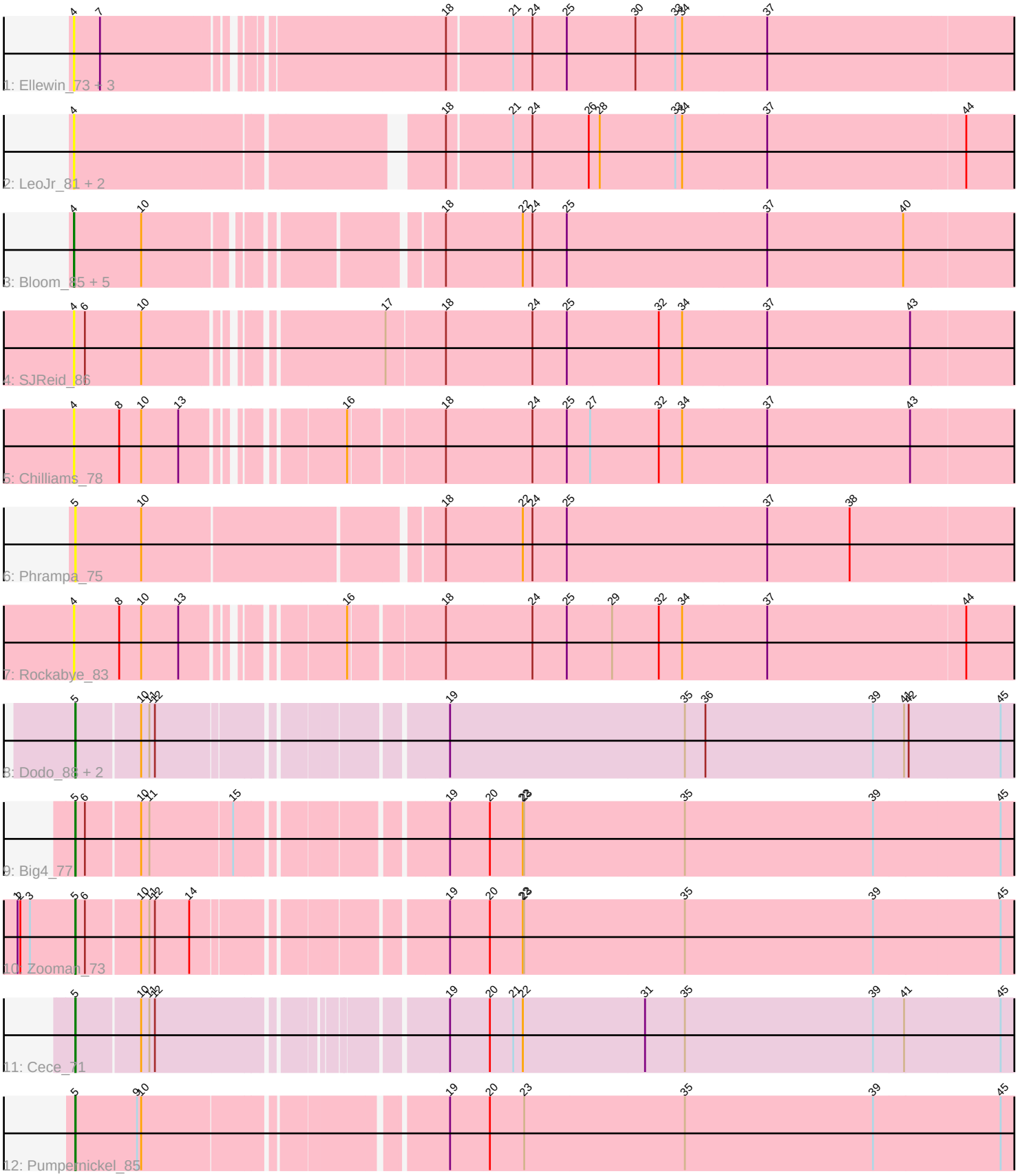
Pham 198406


1: Ellewin_73 + 3
2: LeoJr_81 + 2
3: Bloom_85 + 5
4: SJReid_86
5: Chilliams_78
6: Phrampa_75
7: Rockabye_83
8: Dodo_88 + 2
9: Big4_77
10: Zooman_73
11: Cece_71
12: Pumpernickel_85

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 198406 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198406 has 24 members, 16 are drafts.

Phages represented in each track:
• Track 1 : Ellewin_73, KSunshine22_76, WaddleDee_75, DunneganBoMo_75
• Track 2 : LeoJr_81, Atuin_79, ReginaGlobina_81
• Track 3 : Bloom_85, GoldenEssence_70, Patbob_82, Racecar_82, Talia1610_81, Mimi_88
• Track 4 : SJReid_86
• Track 5 : Chilliams_78
• Track 6 : Phrampa_75
• Track 7 : Rockabye_83
• Track 8 : Dodo_88, A3Wally_88, PauloDiaboli_88
• Track 9 : Big4_77
• Track 10 : Zooman_73
• Track 11 : Cece_71
• Track 12 : Pumpernickel_85

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 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_88, Big4_77, Cece_71, Dodo_88, PauloDiaboli_88, Phrampa_75, Pumpernickel_85, Zooman_73,

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

Genes that do not have the "Most Annotated" start:
• Atuin_79, Bloom_85, Chilliams_78, DunneganBoMo_75, Ellewin_73, GoldenEssence_70, KSunshine22_76, LeoJr_81, Mimi_88, Patbob_82, Racecar_82, ReginaGlobina_81, Rockabye_83, SJReid_86, Talia1610_81, WaddleDee_75,

Summary by start number:

Start 4:

• Found in 16 of 24 (66.7%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_79 (FC), Bloom_85 (FC), Chilliams_78 (FC), DunneganBoMo_75 (FC), Ellewin_73 (FC), GoldenEssence_70 (FC), KSunshine22_76 (FC), LeoJr_81 (FC), Mimi_88 (FC), Patbob_82 (FC), Racecar_82 (FC), ReginaGlobina_81 (FC), Rockabye_83 (FC), SJReid_86 (FC), Talia1610_81 (FC), WaddleDee_75 (FC),

Start 5:
• Found in 8 of 24 (33.3%) of genes in pham
• Manual Annotations of this start: 6 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_88 (GD1), Big4_77 (GD2), Cece_71 (GD3), Dodo_88 (GD1), PauloDiaboli_88 (GD1), Phrampa_75 (FC), Pumpernickel_85 (GD4), Zooman_73 (GD2),

Summary by clusters:

There are 5 clusters represented in this pham: GD3, GD1, GD2, FC, GD4,

Info for manual annotations of cluster FC:
•Start number 4 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 5 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 5 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 5 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 5 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_88 Start: 44936, Stop: 46945, Start Num: 5
Candidate Starts for A3Wally_88:
(Start: 5 @44936 has 6 MA's), (10, 45071), (11, 45089), (12, 45101), (19, 45644), (35, 46154), (36, 46199), (39, 46565), (41, 46631), (42, 46640), (45, 46835),

Gene: Atuin_79 Start: 46811, Stop: 48820, Start Num: 4
Candidate Starts for Atuin_79:
(Start: 4 @46811 has 2 MA's), (18, 47525), (21, 47660), (24, 47702), (26, 47825), (28, 47846), (33, 48011), (34, 48026), (37, 48206), (44, 48632),

Gene: Big4_77 Start: 43780, Stop: 45789, Start Num: 5
Candidate Starts for Big4_77:

(Start: 5 @43780 has 6 MA's), (6, 43801), (10, 43915), (11, 43933), (15, 44107), (19, 44488), (20, 44572), (22, 44644), (23, 44647), (35, 44995), (39, 45406), (45, 45676),

Gene: Bloom_85 Start: 48235, Stop: 50229, Start Num: 4
Candidate Starts for Bloom_85:
(Start: 4 @48235 has 2 MA's), (10, 48379), (18, 48925), (22, 49090), (24, 49111), (25, 49186), (37, 49615), (40, 49912),

Gene: Cece_71 Start: 39862, Stop: 41862, Start Num: 5
Candidate Starts for Cece_71:
(Start: 5 @39862 has 6 MA's), (10, 39997), (11, 40015), (12, 40027), (19, 40564), (20, 40648), (21, 40699), (22, 40720), (31, 40984), (35, 41071), (39, 41482), (41, 41548), (45, 41752),

Gene: Chilliams_78 Start: 50058, Stop: 52049, Start Num: 4
Candidate Starts for Chilliams_78:
(Start: 4 @50058 has 2 MA's), (8, 50154), (10, 50202), (13, 50283), (16, 50559), (18, 50745), (24, 50931), (25, 51006), (27, 51057), (32, 51204), (34, 51255), (37, 51435), (43, 51747),

Gene: Dodo_88 Start: 45258, Stop: 47267, Start Num: 5
Candidate Starts for Dodo_88:
(Start: 5 @45258 has 6 MA's), (10, 45393), (11, 45411), (12, 45423), (19, 45966), (35, 46476), (36, 46521), (39, 46887), (41, 46953), (42, 46962), (45, 47157),

Gene: DunneganBoMo_75 Start: 43679, Stop: 45682, Start Num: 4
Candidate Starts for DunneganBoMo_75:
(Start: 4 @43679 has 2 MA's), (7, 43733), (18, 44387), (21, 44522), (24, 44564), (25, 44639), (30, 44786), (33, 44873), (34, 44888), (37, 45068),

Gene: Ellewin_73 Start: 43274, Stop: 45277, Start Num: 4
Candidate Starts for Ellewin_73:
(Start: 4 @43274 has 2 MA's), (7, 43328), (18, 43982), (21, 44117), (24, 44159), (25, 44234), (30, 44381), (33, 44468), (34, 44483), (37, 44663),

Gene: GoldenEssence_70 Start: 42028, Stop: 44022, Start Num: 4
Candidate Starts for GoldenEssence_70:
(Start: 4 @42028 has 2 MA's), (10, 42172), (18, 42718), (22, 42883), (24, 42904), (25, 42979), (37, 43408), (40, 43705),

Gene: KSunshine22_76 Start: 44913, Stop: 46916, Start Num: 4
Candidate Starts for KSunshine22_76:
(Start: 4 @44913 has 2 MA's), (7, 44967), (18, 45621), (21, 45756), (24, 45798), (25, 45873), (30, 46020), (33, 46107), (34, 46122), (37, 46302),

Gene: LeoJr_81 Start: 46939, Stop: 48948, Start Num: 4
Candidate Starts for LeoJr_81:
(Start: 4 @46939 has 2 MA's), (18, 47653), (21, 47788), (24, 47830), (26, 47953), (28, 47974), (33, 48139), (34, 48154), (37, 48334), (44, 48760),

Gene: Mimi_88 Start: 47582, Stop: 49576, Start Num: 4
Candidate Starts for Mimi_88:
(Start: 4 @47582 has 2 MA's), (10, 47726), (18, 48272), (22, 48437), (24, 48458), (25, 48533), (37, 48962), (40, 49259),

Gene: Patbob_82 Start: 48454, Stop: 50448, Start Num: 4
Candidate Starts for Patbob_82:
(Start: 4 @48454 has 2 MA's), (10, 48598), (18, 49144), (22, 49309), (24, 49330), (25, 49405), (37, 49834), (40, 50131),

Gene: PauloDiaboli_88 Start: 44293, Stop: 46302, Start Num: 5
Candidate Starts for PauloDiaboli_88:
(Start: 5 @44293 has 6 MA's), (10, 44428), (11, 44446), (12, 44458), (19, 45001), (35, 45511), (36, 45556), (39, 45922), (41, 45988), (42, 45997), (45, 46192),

Gene: Phrampa_75 Start: 45102, Stop: 47150, Start Num: 5
Candidate Starts for Phrampa_75:
(Start: 5 @45102 has 6 MA's), (10, 45246), (18, 45846), (22, 46011), (24, 46032), (25, 46107), (37, 46536), (38, 46716),

Gene: Pumpernickel_85 Start: 45481, Stop: 47517, Start Num: 5
Candidate Starts for Pumpernickel_85:
(Start: 5 @45481 has 6 MA's), (9, 45616), (10, 45625), (19, 46213), (20, 46297), (23, 46372), (35, 46717), (39, 47128), (45, 47404),

Gene: Racecar_82 Start: 48235, Stop: 50229, Start Num: 4
Candidate Starts for Racecar_82:
(Start: 4 @48235 has 2 MA's), (10, 48379), (18, 48925), (22, 49090), (24, 49111), (25, 49186), (37, 49615), (40, 49912),

Gene: ReginaGlobina_81 Start: 47691, Stop: 49700, Start Num: 4
Candidate Starts for ReginaGlobina_81:
(Start: 4 @47691 has 2 MA's), (18, 48405), (21, 48540), (24, 48582), (26, 48705), (28, 48726), (33, 48891), (34, 48906), (37, 49086), (44, 49512),

Gene: Rockabye_83 Start: 50410, Stop: 52398, Start Num: 4
Candidate Starts for Rockabye_83:
(Start: 4 @50410 has 2 MA's), (8, 50506), (10, 50554), (13, 50635), (16, 50911), (18, 51094), (24, 51280), (25, 51355), (29, 51451), (32, 51553), (34, 51604), (37, 51784), (44, 52210),

Gene: SJReid_86 Start: 49478, Stop: 51490, Start Num: 4
Candidate Starts for SJReid_86:
(Start: 4 @49478 has 2 MA's), (6, 49499), (10, 49622), (17, 50066), (18, 50186), (24, 50372), (25, 50447), (32, 50645), (34, 50696), (37, 50876), (43, 51188),

Gene: Talia1610_81 Start: 47600, Stop: 49594, Start Num: 4
Candidate Starts for Talia1610_81:
(Start: 4 @47600 has 2 MA's), (10, 47744), (18, 48290), (22, 48455), (24, 48476), (25, 48551), (37, 48980), (40, 49277),

Gene: WaddleDee_75 Start: 43531, Stop: 45537, Start Num: 4
Candidate Starts for WaddleDee_75:
(Start: 4 @43531 has 2 MA's), (7, 43585), (18, 44242), (21, 44377), (24, 44419), (25, 44494), (30, 44641), (33, 44728), (34, 44743), (37, 44923),

Gene: Zooman_73 Start: 42476, Stop: 44485, Start Num: 5
Candidate Starts for Zooman_73:

(1, 42350), (2, 42356), (3, 42377), (Start: 5 @42476 has 6 MA's), (6, 42497), (10, 42611), (11, 42629), (12, 42641), (14, 42716), (19, 43187), (20, 43271), (22, 43343), (23, 43346), (35, 43694), (39, 44105), (45, 44375),