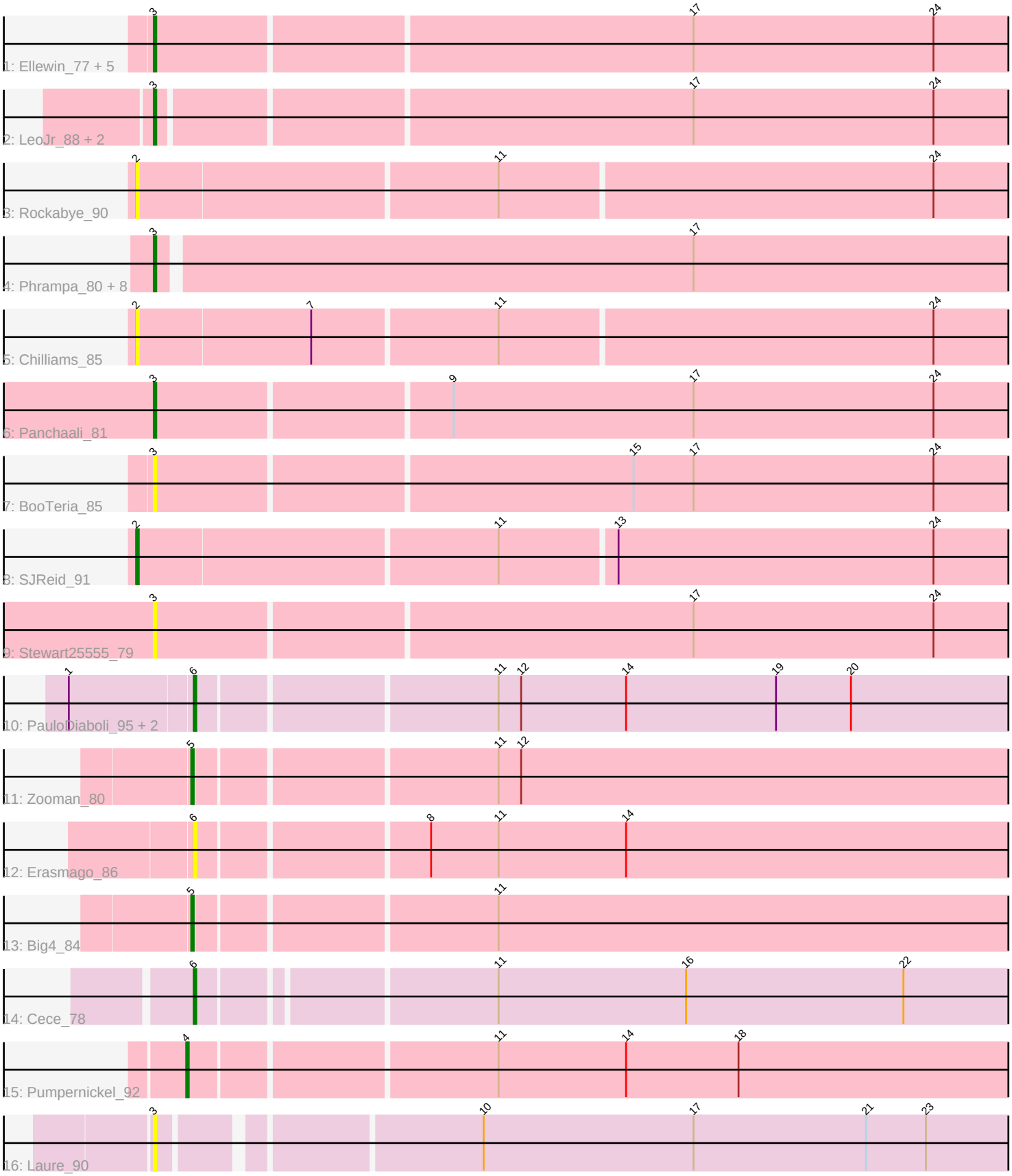
Pham 296786


1: Ellewin_77 + 5
2: LeoJr_88 + 2
3: Rockabye_90
4: Phrampa_80 + 8
5: Chilliams_85
6: Panchaali_81
7: BooTeria_85
8: SJReid_91
9: Stewart25555_79
10: PauloDiaboli_95 + 2
11: Zooman_80
12: Erasmago_86
13: Big4_84
14: Cece_78
15: Pumpernickel_92
16: Laure_90

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 296786 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296786 has 33 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Ellewin_77, Artu_81, KSunshine22_83, Emmetator_81, WaddleDee_76, DunneganBoMo_78
• Track 2 : LeoJr_88, Atuin_83, ReginaGlobina_88
• Track 3 : Rockabye_90
• Track 4 : Phrampa_80, GoldenEssence_74, Patbob_87, FloraSnap32_88, Bloom_92, Racecar_89, Talia1610_88, FrostedClock_90, Mimi_88
• Track 5 : Chilliams_85
• Track 6 : Panchaali_81
• Track 7 : BooTeria_85
• Track 8 : SJReid_91
• Track 9 : Stewart25555_79
• Track 10 : PauloDiaboli_95, A3Wally_95, Dodo_95
• Track 11 : Zooman_80
• Track 12 : Erasmago_86
• Track 13 : Big4_84
• Track 14 : Cece_78
• Track 15 : Pumpernickel_92
• Track 16 : Laure_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 11 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_81, Atuin_83, Bloom_92, BooTeria_85, DunneganBoMo_78, Ellewin_77, Emmetator_81, FloraSnap32_88, FrostedClock_90, GoldenEssence_74, KSunshine22_83, Laure_90, LeoJr_88, Mimi_88, Panchaali_81, Patbob_87, Phrampa_80, Racecar_89, ReginaGlobina_88, Stewart25555_79, Talia1610_88, WaddleDee_76,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_95, Big4_84, Cece_78, Chilliams_85, Dodo_95, Erasmago_86, PauloDiaboli_95, Pumpernickel_92, Rockabye_90, SJReid_91, Zooman_80,

Summary by start number:

Start 2:
• Found in 3 of 33 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chilliams_85 (FC), Rockabye_90 (FC), SJReid_91 (FC),

Start 3:
• Found in 22 of 33 (66.7%) of genes in pham
• Manual Annotations of this start: 11 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_81 (FC), Atuin_83 (FC), Bloom_92 (FC), BooTeria_85 (FC), DunneganBoMo_78 (FC), Ellewin_77 (FC), Emmetator_81 (FC), FloraSnap32_88 (FC), FrostedClock_90 (FC), GoldenEssence_74 (FC), KSunshine22_83 (FC), Laure_90 (UNK), LeoJr_88 (FC), Mimi_88 (FC), Panchaali_81 (FC), Patbob_87 (FC), Phrampa_80 (FC), Racecar_89 (FC), ReginaGlobina_88 (FC), Stewart25555_79 (FC), Talia1610_88 (FC), WaddleDee_76 (FC),

Start 4:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_92 (GD4),

Start 5:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big4_84 (GD2), Zooman_80 (GD2),

Start 6:
• Found in 5 of 33 (15.2%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_95 (GD1), Cece_78 (GD3), Dodo_95 (GD1), Erasmago_86 (GD2), PauloDiaboli_95 (GD1),

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 2 was manually annotated 1 time for cluster FC.
•Start number 3 was manually annotated 11 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 6 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 6 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 4 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_95 Start: 51157, Stop: 51489, Start Num: 6
Candidate Starts for A3Wally_95:
(1, 51109), (Start: 6 @51157 has 3 MA's), (11, 51271), (12, 51280), (14, 51322), (19, 51382), (20, 51412),

Gene: Artu_81 Start: 49796, Stop: 50140, Start Num: 3
Candidate Starts for Artu_81:
(Start: 3 @49796 has 11 MA's), (17, 50006), (24, 50102),

Gene: Atuin_83 Start: 52443, Stop: 52784, Start Num: 3
Candidate Starts for Atuin_83:
(Start: 3 @52443 has 11 MA's), (17, 52650), (24, 52746),

Gene: Big4_84 Start: 50177, Stop: 50509, Start Num: 5
Candidate Starts for Big4_84:
(Start: 5 @50177 has 2 MA's), (11, 50291),

Gene: Bloom_92 Start: 53844, Stop: 54185, Start Num: 3
Candidate Starts for Bloom_92:
(Start: 3 @53844 has 11 MA's), (17, 54051),

Gene: BooTeria_85 Start: 49864, Stop: 50208, Start Num: 3
Candidate Starts for BooTeria_85:
(Start: 3 @49864 has 11 MA's), (15, 50050), (17, 50074), (24, 50170),

Gene: Cece_78 Start: 46135, Stop: 46464, Start Num: 6
Candidate Starts for Cece_78:
(Start: 6 @46135 has 3 MA's), (11, 46246), (16, 46321), (22, 46408),

Gene: Chilliams_85 Start: 55710, Stop: 56066, Start Num: 2
Candidate Starts for Chilliams_85:
(Start: 2 @55710 has 1 MA's), (7, 55779), (11, 55851), (24, 56022),

Gene: Dodo_95 Start: 51479, Stop: 51811, Start Num: 6
Candidate Starts for Dodo_95:
(1, 51431), (Start: 6 @51479 has 3 MA's), (11, 51593), (12, 51602), (14, 51644), (19, 51704), (20, 51734),

Gene: DunneganBoMo_78 Start: 49289, Stop: 49633, Start Num: 3
Candidate Starts for DunneganBoMo_78:
(Start: 3 @49289 has 11 MA's), (17, 49499), (24, 49595),

Gene: Ellewin_77 Start: 48884, Stop: 49228, Start Num: 3
Candidate Starts for Ellewin_77:
(Start: 3 @48884 has 11 MA's), (17, 49094), (24, 49190),

Gene: Emmetator_81 Start: 50036, Stop: 50380, Start Num: 3
Candidate Starts for Emmetator_81:
(Start: 3 @50036 has 11 MA's), (17, 50246), (24, 50342),

Gene: Erasmago_86 Start: 47780, Stop: 48112, Start Num: 6
Candidate Starts for Erasmago_86:
(Start: 6 @47780 has 3 MA's), (8, 47867), (11, 47894), (14, 47945),

Gene: FloraSnap32_88 Start: 52881, Stop: 53222, Start Num: 3
Candidate Starts for FloraSnap32_88:
(Start: 3 @52881 has 11 MA's), (17, 53088),

Gene: FrostedClock_90 Start: 53332, Stop: 53673, Start Num: 3
Candidate Starts for FrostedClock_90:
(Start: 3 @53332 has 11 MA's), (17, 53539),

Gene: GoldenEssence_74 Start: 47637, Stop: 47978, Start Num: 3
Candidate Starts for GoldenEssence_74:
(Start: 3 @47637 has 11 MA's), (17, 47844),

Gene: KSunshine22_83 Start: 50523, Stop: 50867, Start Num: 3
Candidate Starts for KSunshine22_83:
(Start: 3 @50523 has 11 MA's), (17, 50733), (24, 50829),

Gene: Laure_90 Start: 53420, Stop: 53749, Start Num: 3
Candidate Starts for Laure_90:
(Start: 3 @53420 has 11 MA's), (10, 53537), (17, 53621), (21, 53690), (23, 53714),

Gene: LeoJr_88 Start: 52571, Stop: 52912, Start Num: 3
Candidate Starts for LeoJr_88:
(Start: 3 @52571 has 11 MA's), (17, 52778), (24, 52874),

Gene: Mimi_88 Start: 53191, Stop: 53532, Start Num: 3
Candidate Starts for Mimi_88:
(Start: 3 @53191 has 11 MA's), (17, 53398),

Gene: Panchaali_81 Start: 50285, Stop: 50629, Start Num: 3
Candidate Starts for Panchaali_81:
(Start: 3 @50285 has 11 MA's), (9, 50399), (17, 50495), (24, 50591),

Gene: Patbob_87 Start: 54063, Stop: 54404, Start Num: 3
Candidate Starts for Patbob_87:
(Start: 3 @54063 has 11 MA's), (17, 54270),

Gene: PauloDiaboli_95 Start: 50514, Stop: 50846, Start Num: 6

Candidate Starts for PauloDiaboli_95:
(1, 50466), (Start: 6 @50514 has 3 MA's), (11, 50628), (12, 50637), (14, 50679), (19, 50739), (20, 50769),

Gene: Phrampa_80 Start: 50791, Stop: 51135, Start Num: 3
Candidate Starts for Phrampa_80:
(Start: 3 @50791 has 11 MA's), (17, 51001),

Gene: Pumpernickel_92 Start: 51885, Stop: 52220, Start Num: 4
Candidate Starts for Pumpernickel_92:
(Start: 4 @51885 has 1 MA's), (11, 52002), (14, 52053), (18, 52098),

Gene: Racecar_89 Start: 53844, Stop: 54185, Start Num: 3
Candidate Starts for Racecar_89:
(Start: 3 @53844 has 11 MA's), (17, 54051),

Gene: ReginaGlobina_88 Start: 53324, Stop: 53665, Start Num: 3
Candidate Starts for ReginaGlobina_88:
(Start: 3 @53324 has 11 MA's), (17, 53531), (24, 53627),

Gene: Rockabye_90 Start: 56063, Stop: 56419, Start Num: 2
Candidate Starts for Rockabye_90:
(Start: 2 @56063 has 1 MA's), (11, 56204), (24, 56375),

Gene: SJReid_91 Start: 55142, Stop: 55498, Start Num: 2
Candidate Starts for SJReid_91:
(Start: 2 @55142 has 1 MA's), (11, 55283), (13, 55328), (24, 55454),

Gene: Stewart25555_79 Start: 49707, Stop: 50051, Start Num: 3
Candidate Starts for Stewart25555_79:
(Start: 3 @49707 has 11 MA's), (17, 49917), (24, 50013),

Gene: Talia1610_88 Start: 53209, Stop: 53550, Start Num: 3
Candidate Starts for Talia1610_88:
(Start: 3 @53209 has 11 MA's), (17, 53416),

Gene: WaddleDee_76 Start: 49144, Stop: 49488, Start Num: 3
Candidate Starts for WaddleDee_76:
(Start: 3 @49144 has 11 MA's), (17, 49354), (24, 49450),

Gene: Zooman_80 Start: 48831, Stop: 49163, Start Num: 5
Candidate Starts for Zooman_80:
(Start: 5 @48831 has 2 MA's), (11, 48945), (12, 48954),