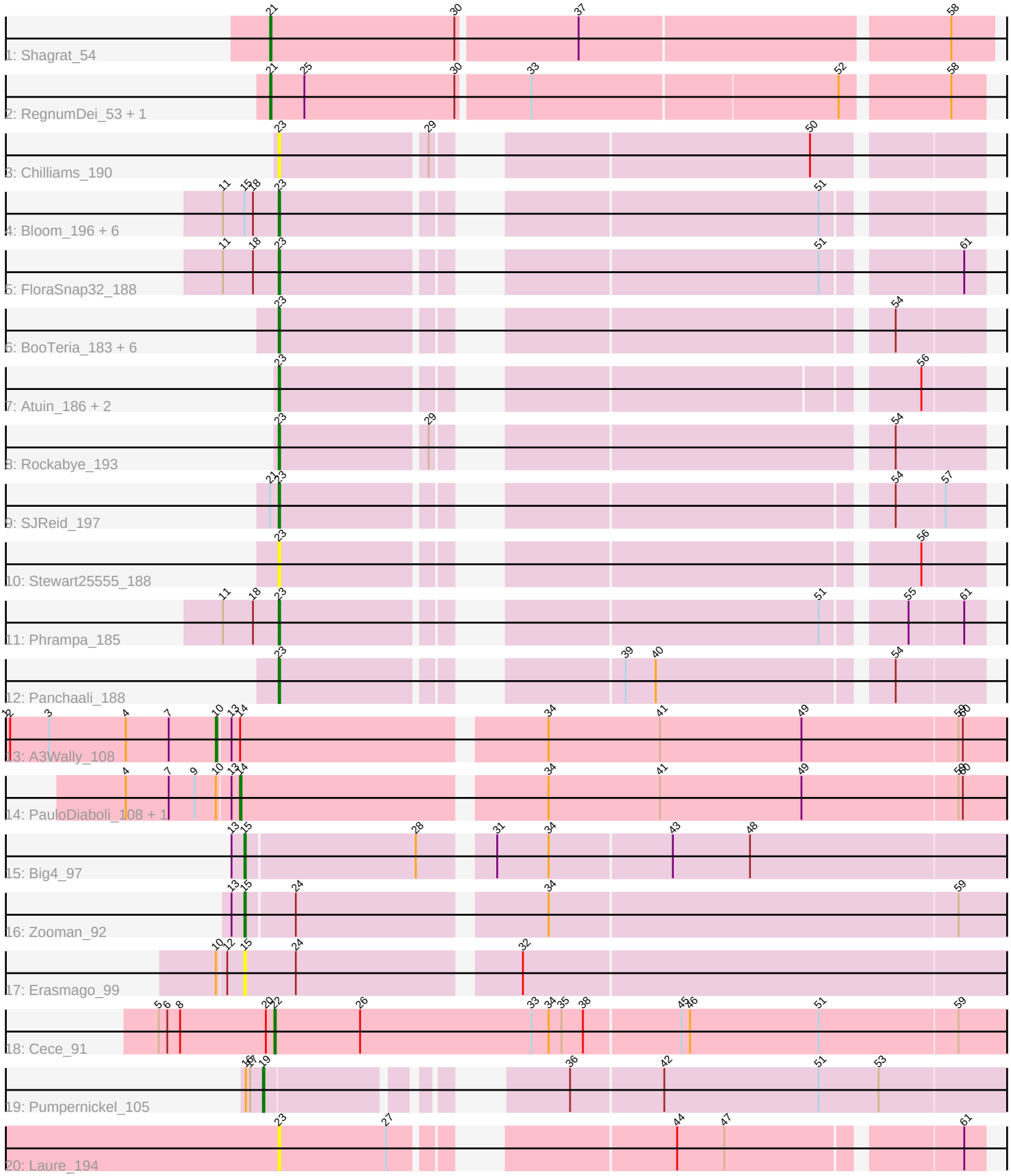
Pham 347831


1: Shagrat_54
2: RegnumDei_53 + 1
3: Chilliams_190
4: Bloom_196 + 6
5: FloraSnap32_188
6: BooTeria_183 + 6
7: Atuin_186 + 2
8: Rockabye_193
9: SJReid_197
10: Stewart25555_188
11: Phrampa_185
12: Panchaali_188
13: A3Wally_108
14: PauloDiaboli_108 + 1
15: Big4_97
16: Zooman_92
17: Erasmago_99
18: Cece_91
19: Pumpernickel_105
20: Laure_194

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 347831 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347831 has 36 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Shagrat_54
• Track 2 : RegnumDei_53, CurlyFries_55
• Track 3 : Chilliams_190
• Track 4 : Bloom_196, Racecar_193, Talia1610_193, Patbob_190, GoldenEssence_180, Mimi_192, FrostedClock_192
• Track 5 : FloraSnap32_188
• Track 6 : BooTeria_183, Emmetator_188, Ellewin_184, KSunshine22_189, WaddleDee_181, DunneganBoMo_184, Artu_185
• Track 7 : Atuin_186, ReginaGlobina_199, LeoJr_195
• Track 8 : Rockabye_193
• Track 9 : SJReid_197
• Track 10 : Stewart25555_188
• Track 11 : Phrampa_185
• Track 12 : Panchaali_188
• Track 13 : A3Wally_108
• Track 14 : PauloDiaboli_108, Dodo_110
• Track 15 : Big4_97
• Track 16 : Zooman_92
• Track 17 : Erasmago_99
• Track 18 : Cece_91
• Track 19 : Pumpernickel_105
• Track 20 : Laure_194

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

The start number called the most often in the published annotations is 23, it was called in 17 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_185, Atuin_186, Bloom_196, BooTeria_183, Chilliams_190, DunneganBoMo_184, Ellewin_184, Emmetator_188, FloraSnap32_188, FrostedClock_192, GoldenEssence_180, KSunshine22_189, Laure_194, LeoJr_195, Mimi_192, Panchaali_188, Patbob_190, Phrampa_185, Racecar_193, ReginaGlobina_199, Rockabye_193, SJReid_197, Stewart25555_188,

Talia1610_193, WaddleDee_181,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_108, Big4_97, Cece_91, CurlyFries_55, Dodo_110, Erasmago_99, PauloDiaboli_108, Pumpernickel_105, RegnumDei_53, Shagrat_54, Zooman_92,

Summary by start number:

Start 10:
• Found in 4 of 36 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 25.0% of time when present
• Phage (with cluster) where this start called: A3Wally_108 (GD1),

Start 14:
• Found in 3 of 36 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Dodo_110 (GD1), PauloDiaboli_108 (GD1),

Start 15:
• Found in 10 of 36 (27.8%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 30.0% of time when present
• Phage (with cluster) where this start called: Big4_97 (GD2), Erasmago_99 (GD2), Zooman_92 (GD2),

Start 19:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_105 (GD4),

Start 21:
• Found in 4 of 36 (11.1%) of genes in pham
• Manual Annotations of this start: 3 of 27
• Called 75.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_55 (CF), RegnumDei_53 (CF), Shagrat_54 (CF),

Start 22:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_91 (GD3),

Start 23:
• Found in 25 of 36 (69.4%) of genes in pham
• Manual Annotations of this start: 17 of 27

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_185 (FC), Atuin_186 (FC), Bloom_196 (FC), BooTeria_183 (FC), Chilliams_190 (FC), DunneganBoMo_184 (FC), Ellewin_184 (FC), Emmetator_188 (FC), FloraSnap32_188 (FC), FrostedClock_192 (FC), GoldenEssence_180 (FC), KSunshine22_189 (FC), Laure_194 (UNK), LeoJr_195 (FC), Mimi_192 (FC), Panchaali_188 (FC), Patbob_190 (FC), Phrampa_185 (FC), Racecar_193 (FC), ReginaGlobina_199 (FC), Rockabye_193 (FC), SJReid_197 (FC), Stewart25555_188 (FC), Talia1610_193 (FC), WaddleDee_181 (FC),

Summary by clusters:

There are 7 clusters represented in this pham: GD1, GD2, GD3, GD4, CF, FC, UNK,

Info for manual annotations of cluster CF:
•Start number 21 was manually annotated 3 times for cluster CF.

Info for manual annotations of cluster FC:
•Start number 23 was manually annotated 17 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 10 was manually annotated 1 time for cluster GD1.
•Start number 14 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 15 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 22 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 19 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_108 Start: 73992, Stop: 73408, Start Num: 10
Candidate Starts for A3Wally_108:
(1, 74139), (2, 74136), (3, 74109), (4, 74055), (7, 74025), (Start: 10 @73992 has 1 MA's), (13, 73983), (Start: 14 @73977 has 2 MA's), (34, 73776), (41, 73698), (49, 73599), (59, 73491), (60, 73488),

Gene: Artu_185 Start: 138178, Stop: 138606, Start Num: 23
Candidate Starts for Artu_185:
(Start: 23 @138178 has 17 MA's), (54, 138547),

Gene: Atuin_186 Start: 131620, Stop: 132045, Start Num: 23
Candidate Starts for Atuin_186:
(Start: 23 @131620 has 17 MA's), (56, 132004),

Gene: Big4_97 Start: 73090, Stop: 72530, Start Num: 15
Candidate Starts for Big4_97:

(13, 73099), (Start: 15 @73090 has 2 MA's), (28, 72973), (31, 72931), (34, 72895), (43, 72811), (48, 72757),

Gene: Bloom_196 Start: 132945, Stop: 133373, Start Num: 23
Candidate Starts for Bloom_196:
(11, 132906), (Start: 15 @132921 has 2 MA's), (18, 132927), (Start: 23 @132945 has 17 MA's), (51, 133275),

Gene: BooTeria_183 Start: 137684, Stop: 138112, Start Num: 23
Candidate Starts for BooTeria_183:
(Start: 23 @137684 has 17 MA's), (54, 138053),

Gene: Cece_91 Start: 76156, Stop: 75599, Start Num: 22
Candidate Starts for Cece_91:
(5, 76237), (6, 76231), (8, 76222), (20, 76162), (Start: 22 @76156 has 1 MA's), (26, 76096), (33, 75976), (34, 75964), (35, 75955), (38, 75940), (45, 75874), (46, 75868), (51, 75778), (59, 75682),

Gene: Chilliams_190 Start: 128904, Stop: 129335, Start Num: 23
Candidate Starts for Chilliams_190:
(Start: 23 @128904 has 17 MA's), (29, 129003), (50, 129228),

Gene: CurlyFries_55 Start: 37065, Stop: 37544, Start Num: 21
Candidate Starts for CurlyFries_55:
(Start: 21 @37065 has 3 MA's), (25, 37089), (30, 37194), (33, 37242), (52, 37452), (58, 37521),

Gene: Dodo_110 Start: 74299, Stop: 73730, Start Num: 14
Candidate Starts for Dodo_110:
(4, 74377), (7, 74347), (9, 74329), (Start: 10 @74314 has 1 MA's), (13, 74305), (Start: 14 @74299 has 2 MA's), (34, 74098), (41, 74020), (49, 73921), (59, 73813), (60, 73810),

Gene: DunneganBoMo_184 Start: 136342, Stop: 136770, Start Num: 23
Candidate Starts for DunneganBoMo_184:
(Start: 23 @136342 has 17 MA's), (54, 136711),

Gene: Ellewin_184 Start: 136420, Stop: 136848, Start Num: 23
Candidate Starts for Ellewin_184:
(Start: 23 @136420 has 17 MA's), (54, 136789),

Gene: Emmetator_188 Start: 136548, Stop: 136976, Start Num: 23
Candidate Starts for Emmetator_188:
(Start: 23 @136548 has 17 MA's), (54, 136917),

Gene: Erasmago_99 Start: 70757, Stop: 70194, Start Num: 15
Candidate Starts for Erasmago_99:
(Start: 10 @70775 has 1 MA's), (12, 70769), (Start: 15 @70757 has 2 MA's), (24, 70721), (32, 70577),

Gene: FloraSnap32_188 Start: 131778, Stop: 132206, Start Num: 23
Candidate Starts for FloraSnap32_188:
(11, 131739), (18, 131760), (Start: 23 @131778 has 17 MA's), (51, 132108), (61, 132192),

Gene: FrostedClock_192 Start: 132815, Stop: 133243, Start Num: 23
Candidate Starts for FrostedClock_192:

(11, 132776), (Start: 15 @132791 has 2 MA's), (18, 132797), (Start: 23 @132815 has 17 MA's), (51, 133145),

Gene: GoldenEssence_180 Start: 127156, Stop: 127584, Start Num: 23
Candidate Starts for GoldenEssence_180:
(11, 127117), (Start: 15 @127132 has 2 MA's), (18, 127138), (Start: 23 @127156 has 17 MA's), (51, 127486),

Gene: KSunshine22_189 Start: 135437, Stop: 135865, Start Num: 23
Candidate Starts for KSunshine22_189:
(Start: 23 @135437 has 17 MA's), (54, 135806),

Gene: Laure_194 Start: 121383, Stop: 121811, Start Num: 23
Candidate Starts for Laure_194:
(Start: 23 @121383 has 17 MA's), (27, 121458), (44, 121614), (47, 121647), (61, 121797),

Gene: LeoJr_195 Start: 132174, Stop: 132599, Start Num: 23
Candidate Starts for LeoJr_195:
(Start: 23 @132174 has 17 MA's), (56, 132558),

Gene: Mimi_192 Start: 132565, Stop: 132993, Start Num: 23
Candidate Starts for Mimi_192:
(11, 132526), (Start: 15 @132541 has 2 MA's), (18, 132547), (Start: 23 @132565 has 17 MA's), (51, 132895),

Gene: Panchaali_188 Start: 137916, Stop: 138344, Start Num: 23
Candidate Starts for Panchaali_188:
(Start: 23 @137916 has 17 MA's), (39, 138111), (40, 138132), (54, 138285),

Gene: Patbob_190 Start: 132952, Stop: 133380, Start Num: 23
Candidate Starts for Patbob_190:
(11, 132913), (Start: 15 @132928 has 2 MA's), (18, 132934), (Start: 23 @132952 has 17 MA's), (51, 133282),

Gene: PauloDiaboli_108 Start: 73334, Stop: 72765, Start Num: 14
Candidate Starts for PauloDiaboli_108:
(4, 73412), (7, 73382), (9, 73364), (Start: 10 @73349 has 1 MA's), (13, 73340), (Start: 14 @73334 has 2 MA's), (34, 73133), (41, 73055), (49, 72956), (59, 72848), (60, 72845),

Gene: Phrampa_185 Start: 132316, Stop: 132744, Start Num: 23
Candidate Starts for Phrampa_185:
(11, 132277), (18, 132298), (Start: 23 @132316 has 17 MA's), (51, 132646), (55, 132694), (61, 132730),

Gene: Pumpernickel_105 Start: 74888, Stop: 74379, Start Num: 19
Candidate Starts for Pumpernickel_105:
(16, 74900), (17, 74897), (Start: 19 @74888 has 1 MA's), (36, 74732), (42, 74669), (51, 74561), (53, 74519),

Gene: Racecar_193 Start: 132728, Stop: 133156, Start Num: 23
Candidate Starts for Racecar_193:
(11, 132689), (Start: 15 @132704 has 2 MA's), (18, 132710), (Start: 23 @132728 has 17 MA's), (51, 133058),

Gene: ReginaGlobina_199 Start: 133457, Stop: 133882, Start Num: 23
Candidate Starts for ReginaGlobina_199:
(Start: 23 @133457 has 17 MA's), (56, 133841),

Gene: RegnumDei_53 Start: 37327, Stop: 37806, Start Num: 21
Candidate Starts for RegnumDei_53:
(Start: 21 @37327 has 3 MA's), (25, 37351), (30, 37456), (33, 37504), (52, 37714), (58, 37783),

Gene: Rockabye_193 Start: 127683, Stop: 128114, Start Num: 23
Candidate Starts for Rockabye_193:
(Start: 23 @127683 has 17 MA's), (29, 127782), (54, 128055),

Gene: SJReid_197 Start: 126517, Stop: 126945, Start Num: 23
Candidate Starts for SJReid_197:
(Start: 21 @126511 has 3 MA's), (Start: 23 @126517 has 17 MA's), (54, 126886), (57, 126919),

Gene: Shagrat_54 Start: 37787, Stop: 38272, Start Num: 21
Candidate Starts for Shagrat_54:
(Start: 21 @37787 has 3 MA's), (30, 37916), (37, 37997), (58, 38243),

Gene: Stewart25555_188 Start: 134837, Stop: 135265, Start Num: 23
Candidate Starts for Stewart25555_188:
(Start: 23 @134837 has 17 MA's), (56, 135224),

Gene: Talia1610_193 Start: 133024, Stop: 133452, Start Num: 23
Candidate Starts for Talia1610_193:
(11, 132985), (Start: 15 @133000 has 2 MA's), (18, 133006), (Start: 23 @133024 has 17 MA's), (51, 133354),

Gene: WaddleDee_181 Start: 135615, Stop: 136043, Start Num: 23
Candidate Starts for WaddleDee_181:
(Start: 23 @135615 has 17 MA's), (54, 135984),

Gene: Zooman_92 Start: 70938, Stop: 70378, Start Num: 15
Candidate Starts for Zooman_92:
(13, 70947), (Start: 15 @70938 has 2 MA's), (24, 70905), (34, 70743), (59, 70461),