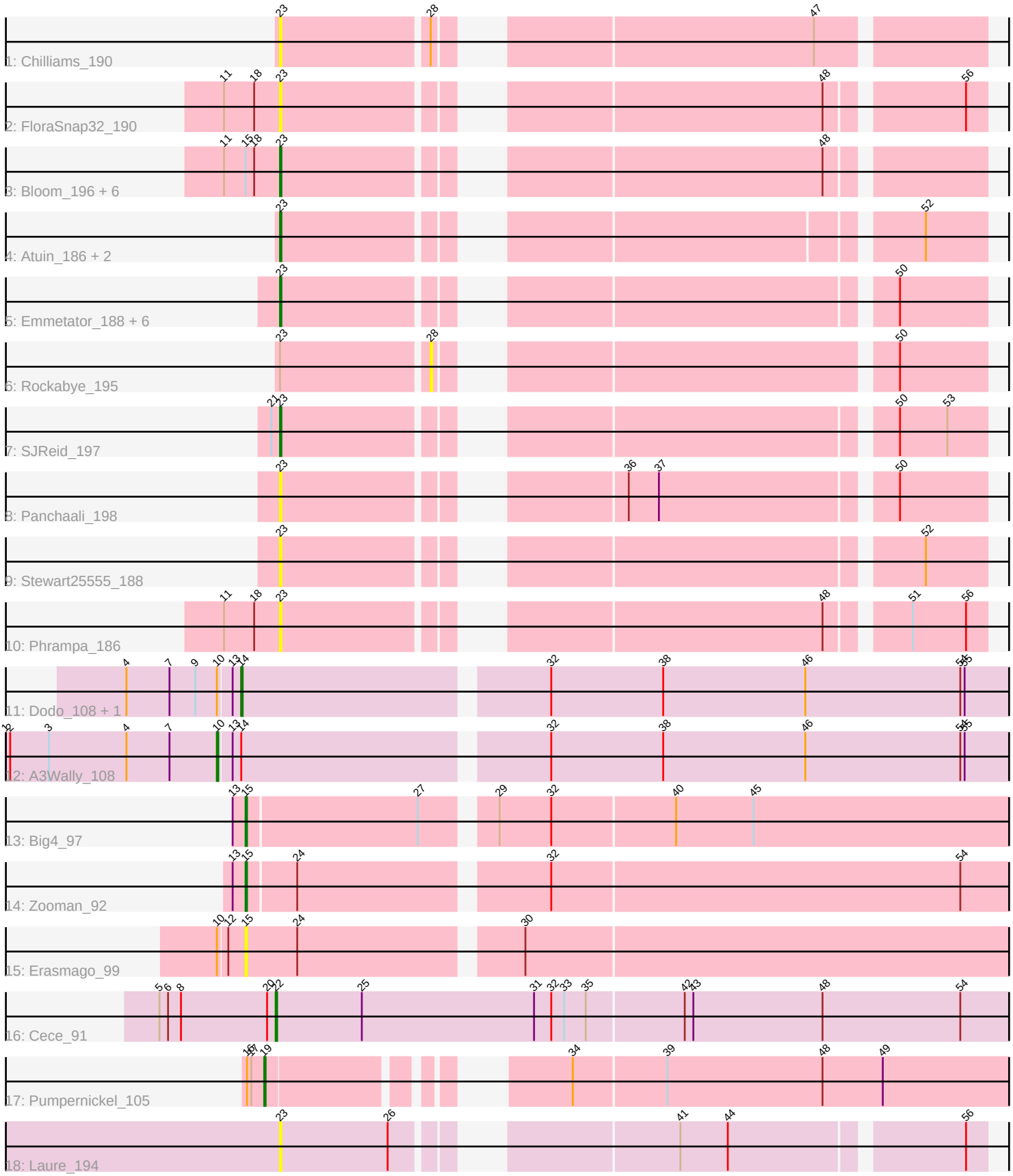
Pham 265481


1: Chilliams_190
2: FloraSnap32_190
3: Bloom_196 + 6
4: Atuin_186 + 2
5: Emmetator_188 + 6
6: Rockabye_195
7: SJReid_197
8: Panchaali_198
9: Stewart25555_188
10: Phrampa_186
11: Dodo_108 + 1
12: A3Wally_108
13: Big4_97
14: Zooman_92
15: Erasmago_99
16: Cece_91
17: Pumpernickel_105
18: 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 265481 Report

This analysis was run 02/07/26 on database version 634.

Pham number 265481 has 33 members, 19 are drafts.

Phages represented in each track:
• Track 1 : Chilliams_190
• Track 2 : FloraSnap32_190
• Track 3 : Bloom_196, Racecar_193, Talia1610_193, FrostedClock_194, GoldenEssence_180, Mimi_192, Patbob_191
• Track 4 : Atuin_186, LeoJr_195, ReginaGlobina_199
• Track 5 : Emmetator_188, KSunshine22_189, WaddleDee_181, BooTeria_193, DunneganBoMo_184, Ellewin_190, Artu_188
• Track 6 : Rockabye_195
• Track 7 : SJReid_197
• Track 8 : Panchaali_198
• Track 9 : Stewart25555_188
• Track 10 : Phrampa_186
• Track 11 : Dodo_108, PauloDiaboli_108
• Track 12 : A3Wally_108
• Track 13 : Big4_97
• Track 14 : Zooman_92
• Track 15 : Erasmago_99
• Track 16 : Cece_91
• Track 17 : Pumpernickel_105
• Track 18 : 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 8 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_188, Atuin_186, Bloom_196, BooTeria_193, Chilliams_190, DunneganBoMo_184, Ellewin_190, Emmetator_188, FloraSnap32_190, FrostedClock_194, GoldenEssence_180, KSunshine22_189, Laure_194, LeoJr_195, Mimi_192, Panchaali_198, Patbob_191, Phrampa_186, Racecar_193, ReginaGlobina_199, SJReid_197, Stewart25555_188, Talia1610_193, WaddleDee_181,

Genes that have the "Most Annotated" start but do not call it:
• Rockabye_195,

Genes that do not have the "Most Annotated" start:
• A3Wally_108, Big4_97, Cece_91, Dodo_108, Erasmago_99, PauloDiaboli_108, Pumpernickel_105, Zooman_92,

Summary by start number:

Start 10:
• Found in 4 of 33 (12.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 25.0% of time when present
• Phage (with cluster) where this start called: A3Wally_108 (GD1),

Start 14:
• Found in 3 of 33 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Dodo_108 (GD1), PauloDiaboli_108 (GD1),

Start 15:
• Found in 10 of 33 (30.3%) of genes in pham
• Manual Annotations of this start: 2 of 14
• 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 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_105 (GD4),

Start 22:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_91 (GD3),

Start 23:
• Found in 25 of 33 (75.8%) of genes in pham
• Manual Annotations of this start: 8 of 14
• Called 96.0% of time when present
• Phage (with cluster) where this start called: Artu_188 (FC), Atuin_186 (FC), Bloom_196 (FC), BooTeria_193 (FC), Chilliams_190 (FC), DunneganBoMo_184 (FC), Ellewin_190 (FC), Emmetator_188 (FC), FloraSnap32_190 (FC), FrostedClock_194 (FC), GoldenEssence_180 (FC), KSunshine22_189 (FC), Laure_194 (UNK), LeoJr_195 (FC), Mimi_192 (FC), Panchaali_198 (FC), Patbob_191 (FC), Phrampa_186 (FC), Racecar_193 (FC), ReginaGlobina_199 (FC), SJReid_197 (FC), Stewart25555_188 (FC), Talia1610_193 (FC), WaddleDee_181 (FC),

Start 28:
• Found in 2 of 33 (6.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Rockabye_195 (FC),

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 23 was manually annotated 8 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 1 time 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 1 MA's), (32, 73776), (38, 73698), (46, 73599), (54, 73491), (55, 73488),

Gene: Artu_188 Start: 138178, Stop: 138606, Start Num: 23
Candidate Starts for Artu_188:
(Start: 23 @138178 has 8 MA's), (50, 138547),

Gene: Atuin_186 Start: 131620, Stop: 132045, Start Num: 23
Candidate Starts for Atuin_186:
(Start: 23 @131620 has 8 MA's), (52, 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), (27, 72973), (29, 72931), (32, 72895), (40, 72811), (45, 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 8 MA's), (48, 133275),

Gene: BooTeria_193 Start: 137684, Stop: 138112, Start Num: 23
Candidate Starts for BooTeria_193:
(Start: 23 @137684 has 8 MA's), (50, 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), (25, 76096), (31, 75976), (32, 75964), (33, 75955), (35, 75940), (42, 75874), (43, 75868), (48, 75778), (54, 75682),

Gene: Chilliams_190 Start: 128904, Stop: 129335, Start Num: 23
Candidate Starts for Chilliams_190:
(Start: 23 @128904 has 8 MA's), (28, 129003), (47, 129228),

Gene: Dodo_108 Start: 74299, Stop: 73730, Start Num: 14
Candidate Starts for Dodo_108:
(4, 74377), (7, 74347), (9, 74329), (Start: 10 @74314 has 1 MA's), (13, 74305), (Start: 14 @74299 has 1 MA's), (32, 74098), (38, 74020), (46, 73921), (54, 73813), (55, 73810),

Gene: DunneganBoMo_184 Start: 136342, Stop: 136770, Start Num: 23
Candidate Starts for DunneganBoMo_184:
(Start: 23 @136342 has 8 MA's), (50, 136711),

Gene: Ellewin_190 Start: 136420, Stop: 136848, Start Num: 23
Candidate Starts for Ellewin_190:
(Start: 23 @136420 has 8 MA's), (50, 136789),

Gene: Emmetator_188 Start: 136548, Stop: 136976, Start Num: 23
Candidate Starts for Emmetator_188:
(Start: 23 @136548 has 8 MA's), (50, 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), (30, 70577),

Gene: FloraSnap32_190 Start: 131778, Stop: 132206, Start Num: 23
Candidate Starts for FloraSnap32_190:
(11, 131739), (18, 131760), (Start: 23 @131778 has 8 MA's), (48, 132108), (56, 132192),

Gene: FrostedClock_194 Start: 132815, Stop: 133243, Start Num: 23
Candidate Starts for FrostedClock_194:
(11, 132776), (Start: 15 @132791 has 2 MA's), (18, 132797), (Start: 23 @132815 has 8 MA's), (48, 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 8 MA's), (48, 127486),

Gene: KSunshine22_189 Start: 135437, Stop: 135865, Start Num: 23
Candidate Starts for KSunshine22_189:
(Start: 23 @135437 has 8 MA's), (50, 135806),

Gene: Laure_194 Start: 121383, Stop: 121811, Start Num: 23
Candidate Starts for Laure_194:
(Start: 23 @121383 has 8 MA's), (26, 121458), (41, 121614), (44, 121647), (56, 121797),

Gene: LeoJr_195 Start: 132174, Stop: 132599, Start Num: 23
Candidate Starts for LeoJr_195:
(Start: 23 @132174 has 8 MA's), (52, 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 8 MA's), (48, 132895),

Gene: Panchaali_198 Start: 137916, Stop: 138344, Start Num: 23
Candidate Starts for Panchaali_198:
(Start: 23 @137916 has 8 MA's), (36, 138111), (37, 138132), (50, 138285),

Gene: Patbob_191 Start: 132952, Stop: 133380, Start Num: 23
Candidate Starts for Patbob_191:
(11, 132913), (Start: 15 @132928 has 2 MA's), (18, 132934), (Start: 23 @132952 has 8 MA's), (48, 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 1 MA's), (32, 73133), (38, 73055), (46, 72956), (54, 72848), (55, 72845),

Gene: Phrampa_186 Start: 132316, Stop: 132744, Start Num: 23
Candidate Starts for Phrampa_186:
(11, 132277), (18, 132298), (Start: 23 @132316 has 8 MA's), (48, 132646), (51, 132694), (56, 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), (34, 74732), (39, 74669), (48, 74561), (49, 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 8 MA's), (48, 133058),

Gene: ReginaGlobina_199 Start: 133457, Stop: 133882, Start Num: 23
Candidate Starts for ReginaGlobina_199:
(Start: 23 @133457 has 8 MA's), (52, 133841),

Gene: Rockabye_195 Start: 127782, Stop: 128114, Start Num: 28
Candidate Starts for Rockabye_195:
(Start: 23 @127683 has 8 MA's), (28, 127782), (50, 128055),

Gene: SJReid_197 Start: 126517, Stop: 126945, Start Num: 23
Candidate Starts for SJReid_197:
(21, 126511), (Start: 23 @126517 has 8 MA's), (50, 126886), (53, 126919),

Gene: Stewart25555_188 Start: 134837, Stop: 135265, Start Num: 23
Candidate Starts for Stewart25555_188:
(Start: 23 @134837 has 8 MA's), (52, 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 8 MA's), (48, 133354),

Gene: WaddleDee_181 Start: 135615, Stop: 136043, Start Num: 23
Candidate Starts for WaddleDee_181:
(Start: 23 @135615 has 8 MA's), (50, 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), (32, 70743), (54, 70461),