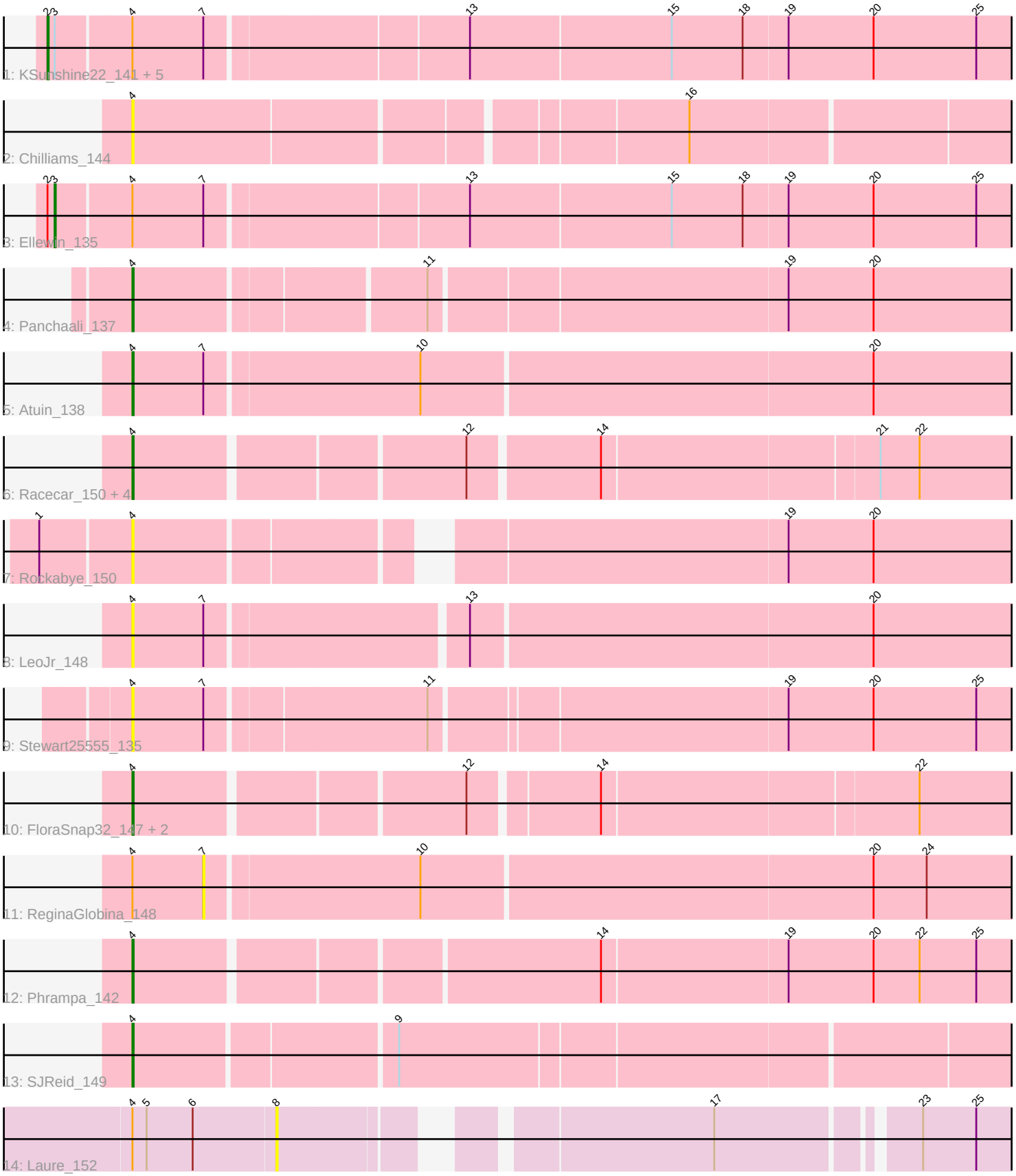
Pham 309140


1: KSunshine22_141 + 5
2: Chilliams_144
3: Ellewin_135
4: Panchaali_137
5: Atuin_138
6: Racecar_150 + 4
7: Rockabye_150
8: LeoJr_148
9: Stewart25555_135
10: FloraSnap32_147 + 2
11: ReginaGlobina_148
12: Phrampa_142
13: SJReid_149
14: Laure_152

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 309140 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309140 has 25 members, 13 are drafts.

Phages represented in each track:
• Track 1 : KSunshine22_141, BooTeria_143, DunneganBoMo_135, WaddleDee_132, Emmetator_138, Artu_138
• Track 2 : Chilliams_144
• Track 3 : Ellewin_135
• Track 4 : Panchaali_137
• Track 5 : Atuin_138
• Track 6 : Racecar_150, Bloom_153, Mimi_149, Talia1610_151, FrostedClock_152
• Track 7 : Rockabye_150
• Track 8 : LeoJr_148
• Track 9 : Stewart25555_135
• Track 10 : FloraSnap32_147, GoldenEssence_135, Patbob_145
• Track 11 : ReginaGlobina_148
• Track 12 : Phrampa_142
• Track 13 : SJReid_149
• Track 14 : Laure_152

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

The start number called the most often in the published annotations is 4, it was called in 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Atuin_138, Bloom_153, Chilliams_144, FloraSnap32_147, FrostedClock_152, GoldenEssence_135, LeoJr_148, Mimi_149, Panchaali_137, Patbob_145, Phrampa_142, Racecar_150, Rockabye_150, SJReid_149, Stewart25555_135, Talia1610_151,

Genes that have the "Most Annotated" start but do not call it:
• Artu_138, BooTeria_143, DunneganBoMo_135, Ellewin_135, Emmetator_138, KSunshine22_141, Laure_152, ReginaGlobina_148, WaddleDee_132,

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

Summary by start number:

Start 2:
• Found in 7 of 25 (28.0%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Artu_138 (FC), BooTeria_143 (FC), DunneganBoMo_135 (FC), Emmetator_138 (FC), KSunshine22_141 (FC), WaddleDee_132 (FC),

Start 3:
• Found in 7 of 25 (28.0%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Ellewin_135 (FC),

Start 4:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 9 of 12
• Called 64.0% of time when present
• Phage (with cluster) where this start called: Atuin_138 (FC), Bloom_153 (FC), Chilliams_144 (FC), FloraSnap32_147 (FC), FrostedClock_152 (FC), GoldenEssence_135 (FC), LeoJr_148 (FC), Mimi_149 (FC), Panchaali_137 (FC), Patbob_145 (FC), Phrampa_142 (FC), Racecar_150 (FC), Rockabye_150 (FC), SJReid_149 (FC), Stewart25555_135 (FC), Talia1610_151 (FC),

Start 7:
• Found in 11 of 25 (44.0%) of genes in pham
• No Manual Annotations of this start.
• Called 9.1% of time when present
• Phage (with cluster) where this start called: ReginaGlobina_148 (FC),

Start 8:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Laure_152 (UNK),

Summary by clusters:

There are 2 clusters represented in this pham: UNK, FC,

Info for manual annotations of cluster FC:
•Start number 2 was manually annotated 2 times for cluster FC.
•Start number 3 was manually annotated 1 time for cluster FC.
•Start number 4 was manually annotated 9 times for cluster FC.

Gene Information:

Gene: Artu_138 Start: 97579, Stop: 98379, Start Num: 2

Candidate Starts for Artu_138:
(Start: 2 @97579 has 2 MA's), (Start: 3 @97585 has 1 MA's), (Start: 4 @97645 has 9 MA's), (7, 97705), (13, 97915), (15, 98083), (18, 98143), (19, 98179), (20, 98251), (25, 98338),

Gene: Atuin_138 Start: 100452, Stop: 101189, Start Num: 4
Candidate Starts for Atuin_138:
(Start: 4 @100452 has 9 MA's), (7, 100512), (10, 100686), (20, 101061),

Gene: Bloom_153 Start: 102408, Stop: 103121, Start Num: 4
Candidate Starts for Bloom_153:
(Start: 4 @102408 has 9 MA's), (12, 102669), (14, 102774), (21, 102999), (22, 103032),

Gene: BooTeria_143 Start: 97720, Stop: 98520, Start Num: 2
Candidate Starts for BooTeria_143:
(Start: 2 @97720 has 2 MA's), (Start: 3 @97726 has 1 MA's), (Start: 4 @97786 has 9 MA's), (7, 97846), (13, 98056), (15, 98224), (18, 98284), (19, 98320), (20, 98392), (25, 98479),

Gene: Chilliams_144 Start: 91497, Stop: 92210, Start Num: 4
Candidate Starts for Chilliams_144:
(Start: 4 @91497 has 9 MA's), (16, 91938),

Gene: DunneganBoMo_135 Start: 96989, Stop: 97789, Start Num: 2
Candidate Starts for DunneganBoMo_135:
(Start: 2 @96989 has 2 MA's), (Start: 3 @96995 has 1 MA's), (Start: 4 @97055 has 9 MA's), (7, 97115), (13, 97325), (15, 97493), (18, 97553), (19, 97589), (20, 97661), (25, 97748),

Gene: Ellewin_135 Start: 96844, Stop: 97638, Start Num: 3
Candidate Starts for Ellewin_135:
(Start: 2 @96838 has 2 MA's), (Start: 3 @96844 has 1 MA's), (Start: 4 @96904 has 9 MA's), (7, 96964), (13, 97174), (15, 97342), (18, 97402), (19, 97438), (20, 97510), (25, 97597),

Gene: Emmetator_138 Start: 96906, Stop: 97706, Start Num: 2
Candidate Starts for Emmetator_138:
(Start: 2 @96906 has 2 MA's), (Start: 3 @96912 has 1 MA's), (Start: 4 @96972 has 9 MA's), (7, 97032), (13, 97242), (15, 97410), (18, 97470), (19, 97506), (20, 97578), (25, 97665),

Gene: FloraSnap32_147 Start: 100920, Stop: 101630, Start Num: 4
Candidate Starts for FloraSnap32_147:
(Start: 4 @100920 has 9 MA's), (12, 101181), (14, 101283), (22, 101541),

Gene: FrostedClock_152 Start: 102405, Stop: 103115, Start Num: 4
Candidate Starts for FrostedClock_152:
(Start: 4 @102405 has 9 MA's), (12, 102666), (14, 102768), (21, 102993), (22, 103026),

Gene: GoldenEssence_135 Start: 95803, Stop: 96513, Start Num: 4
Candidate Starts for GoldenEssence_135:
(Start: 4 @95803 has 9 MA's), (12, 96064), (14, 96166), (22, 96424),

Gene: KSunshine22_141 Start: 98398, Stop: 99198, Start Num: 2
Candidate Starts for KSunshine22_141:
(Start: 2 @98398 has 2 MA's), (Start: 3 @98404 has 1 MA's), (Start: 4 @98464 has 9 MA's), (7, 98524), (13, 98734), (15, 98902), (18, 98962), (19, 98998), (20, 99070), (25, 99157),

Gene: Laure_152 Start: 94419, Stop: 94970, Start Num: 8
Candidate Starts for Laure_152:
(Start: 4 @94299 has 9 MA's), (5, 94311), (6, 94350), (8, 94419), (17, 94731), (23, 94884), (25, 94929),

Gene: LeoJr_148 Start: 101047, Stop: 101775, Start Num: 4
Candidate Starts for LeoJr_148:
(Start: 4 @101047 has 9 MA's), (7, 101107), (13, 101314), (20, 101647),

Gene: Mimi_149 Start: 101473, Stop: 102183, Start Num: 4
Candidate Starts for Mimi_149:
(Start: 4 @101473 has 9 MA's), (12, 101734), (14, 101836), (21, 102061), (22, 102094),

Gene: Panchaali_137 Start: 97398, Stop: 98120, Start Num: 4
Candidate Starts for Panchaali_137:
(Start: 4 @97398 has 9 MA's), (11, 97629), (19, 97920), (20, 97992),

Gene: Patbob_145 Start: 101932, Stop: 102642, Start Num: 4
Candidate Starts for Patbob_145:
(Start: 4 @101932 has 9 MA's), (12, 102193), (14, 102295), (22, 102553),

Gene: Phrampa_142 Start: 103571, Stop: 104293, Start Num: 4
Candidate Starts for Phrampa_142:
(Start: 4 @103571 has 9 MA's), (14, 103940), (19, 104093), (20, 104165), (22, 104204), (25, 104252),

Gene: Racecar_150 Start: 102461, Stop: 103174, Start Num: 4
Candidate Starts for Racecar_150:
(Start: 4 @102461 has 9 MA's), (12, 102722), (14, 102827), (21, 103052), (22, 103085),

Gene: ReginaGlobina_148 Start: 101592, Stop: 102269, Start Num: 7
Candidate Starts for ReginaGlobina_148:
(Start: 4 @101532 has 9 MA's), (7, 101592), (10, 101766), (20, 102141), (24, 102186),

Gene: Rockabye_150 Start: 93139, Stop: 93837, Start Num: 4
Candidate Starts for Rockabye_150:
(1, 93064), (Start: 4 @93139 has 9 MA's), (19, 93637), (20, 93709),

Gene: SJReid_149 Start: 91685, Stop: 92404, Start Num: 4
Candidate Starts for SJReid_149:
(Start: 4 @91685 has 9 MA's), (9, 91895),

Gene: Stewart25555_135 Start: 98063, Stop: 98788, Start Num: 4
Candidate Starts for Stewart25555_135:
(Start: 4 @98063 has 9 MA's), (7, 98123), (11, 98300), (19, 98588), (20, 98660), (25, 98747),

Gene: Talia1610_151 Start: 102476, Stop: 103186, Start Num: 4
Candidate Starts for Talia1610_151:
(Start: 4 @102476 has 9 MA's), (12, 102737), (14, 102839), (21, 103064), (22, 103097),

Gene: WaddleDee_132 Start: 96175, Stop: 96975, Start Num: 2
Candidate Starts for WaddleDee_132:
(Start: 2 @96175 has 2 MA's), (Start: 3 @96181 has 1 MA's), (Start: 4 @96241 has 9 MA's), (7, 96301), (13, 96511), (15, 96679), (18, 96739), (19, 96775), (20, 96847), (25, 96934),