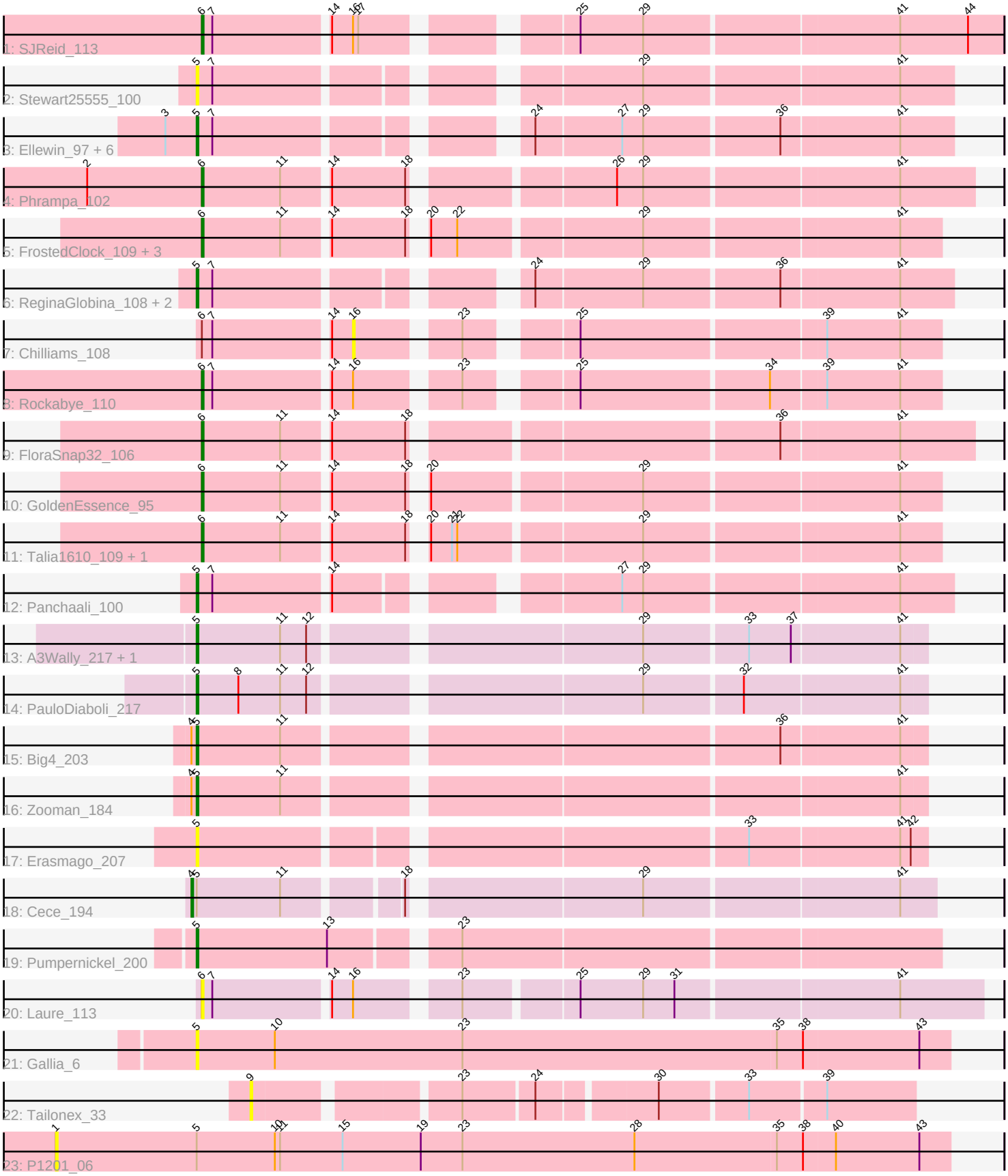
Pham 344204


1: SJReid_113
2: Stewart25555_100
3: Ellewin_97 + 6
4: Phrampa_102
5: FrostedClock_109 + 3
6: ReginaGlobina_108 + 2
7: Chilliams_108
8: Rockabye_110
9: FloraSnap32_106
10: GoldenEssence_95
11: Talia1610_109 + 1
12: Panchaali_100
13: A3Wally_217 + 1
14: PauloDiaboli_217
15: Big4_203
16: Zooman_184
17: Erasmago_207
18: Cece_194
19: Pumpernickel_200
20: Laure_113
21: Gallia_6
22: Tailonex_33
23: P1201_06

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 344204 Report

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

Pham number 344204 has 36 members, 12 are drafts.

Phages represented in each track:
• Track 1 : SJReid_113
• Track 2 : Stewart25555_100
• Track 3 : Ellewin_97, WaddleDee_96, BooTeria_99, Emmetator_101, KSunshine22_103, DunneganBoMo_98, Artu_99
• Track 4 : Phrampa_102
• Track 5 : FrostedClock_109, Bloom_113, Mimi_109, Patbob_108
• Track 6 : ReginaGlobina_108, LeoJr_108, Atuin_103
• Track 7 : Chilliams_108
• Track 8 : Rockabye_110
• Track 9 : FloraSnap32_106
• Track 10 : GoldenEssence_95
• Track 11 : Talia1610_109, Racecar_110
• Track 12 : Panchaali_100
• Track 13 : A3Wally_217, Dodo_213
• Track 14 : PauloDiaboli_217
• Track 15 : Big4_203
• Track 16 : Zooman_184
• Track 17 : Erasmago_207
• Track 18 : Cece_194
• Track 19 : Pumpernickel_200
• Track 20 : Laure_113
• Track 21 : Gallia_6
• Track 22 : Tailonex_33
• Track 23 : P1201_06

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 13 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_217, Artu_99, Atuin_103, Big4_203, BooTeria_99, Dodo_213, DunneganBoMo_98, Ellewin_97, Emmetator_101, Erasmago_207, Gallia_6, KSunshine22_103, LeoJr_108, Panchaali_100, PauloDiaboli_217,

Pumpernickel_200, ReginaGlobina_108, Stewart25555_100, WaddleDee_96, Zooman_184,

Genes that have the "Most Annotated" start but do not call it:
• Cece_194, P1201_06,

Genes that do not have the "Most Annotated" start:
• Bloom_113, Chilliams_108, FloraSnap32_106, FrostedClock_109, GoldenEssence_95, Laure_113, Mimi_109, Patbob_108, Phrampa_102, Racecar_110, Rockabye_110, SJReid_113, Tailonex_33, Talia1610_109,

Summary by start number:

Start 1:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P1201_06 (singleton),

Start 4:
• Found in 3 of 36 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Cece_194 (GD3),

Start 5:
• Found in 22 of 36 (61.1%) of genes in pham
• Manual Annotations of this start: 13 of 24
• Called 90.9% of time when present
• Phage (with cluster) where this start called: A3Wally_217 (GD1), Artu_99 (FC), Atuin_103 (FC), Big4_203 (GD2), BooTeria_99 (FC), Dodo_213 (GD1), DunneganBoMo_98 (FC), Ellewin_97 (FC), Emmetator_101 (FC), Erasmago_207 (GD2), Gallia_6 (singleton), KSunshine22_103 (FC), LeoJr_108 (FC), Panchaali_100 (FC), PauloDiaboli_217 (GD1), Pumpernickel_200 (GD4), ReginaGlobina_108 (FC), Stewart25555_100 (FC), WaddleDee_96 (FC), Zooman_184 (GD2),

Start 6:
• Found in 13 of 36 (36.1%) of genes in pham
• Manual Annotations of this start: 10 of 24
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Bloom_113 (FC), FloraSnap32_106 (FC), FrostedClock_109 (FC), GoldenEssence_95 (FC), Laure_113 (UNK), Mimi_109 (FC), Patbob_108 (FC), Phrampa_102 (FC), Racecar_110 (FC), Rockabye_110 (FC), SJReid_113 (FC), Talia1610_109 (FC),

Start 9:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tailonex_33 (singleton),

Start 16:
• Found in 4 of 36 (11.1%) of genes in pham

• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Chilliams_108 (FC),

Summary by clusters:

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

Info for manual annotations of cluster FC:
•Start number 5 was manually annotated 7 times for cluster FC.
•Start number 6 was manually annotated 10 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 5 was manually annotated 3 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 4 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_217 Start: 118051, Stop: 117659, Start Num: 5
Candidate Starts for A3Wally_217:
(Start: 5 @118051 has 13 MA's), (11, 118003), (12, 117988), (29, 117814), (33, 117757), (37, 117733), (41, 117673),

Gene: Artu_99 Start: 83810, Stop: 84199, Start Num: 5
Candidate Starts for Artu_99:
(3, 83792), (Start: 5 @83810 has 13 MA's), (7, 83819), (24, 83969), (27, 84017), (29, 84029), (36, 84104), (41, 84170),

Gene: Atuin_103 Start: 87322, Stop: 87711, Start Num: 5
Candidate Starts for Atuin_103:
(Start: 5 @87322 has 13 MA's), (7, 87331), (24, 87481), (29, 87541), (36, 87616), (41, 87682),

Gene: Big4_203 Start: 114459, Stop: 114067, Start Num: 5
Candidate Starts for Big4_203:
(Start: 4 @114462 has 1 MA's), (Start: 5 @114459 has 13 MA's), (11, 114411), (36, 114147), (41, 114081),

Gene: Bloom_113 Start: 87385, Stop: 87777, Start Num: 6
Candidate Starts for Bloom_113:
(Start: 6 @87385 has 10 MA's), (11, 87430), (14, 87454), (18, 87496), (20, 87499), (22, 87514), (29, 87613), (41, 87754),

Gene: BooTeria_99 Start: 83923, Stop: 84312, Start Num: 5
Candidate Starts for BooTeria_99:
(3, 83905), (Start: 5 @83923 has 13 MA's), (7, 83932), (24, 84082), (27, 84130), (29, 84142), (36, 84217), (41, 84283),

Gene: Cece_194 Start: 118974, Stop: 118579, Start Num: 4
Candidate Starts for Cece_194:
(Start: 4 @118974 has 1 MA's), (Start: 5 @118971 has 13 MA's), (11, 118923), (18, 118863), (29, 118740), (41, 118599),

Gene: Chilliams_108 Start: 80232, Stop: 80534, Start Num: 16
Candidate Starts for Chilliams_108:
(Start: 6 @80151 has 10 MA's), (7, 80157), (14, 80220), (16, 80232), (23, 80283), (25, 80334), (39, 80469), (41, 80511),

Gene: Dodo_213 Start: 117853, Stop: 117461, Start Num: 5
Candidate Starts for Dodo_213:
(Start: 5 @117853 has 13 MA's), (11, 117805), (12, 117790), (29, 117616), (33, 117559), (37, 117535), (41, 117475),

Gene: DunneganBoMo_98 Start: 83192, Stop: 83581, Start Num: 5
Candidate Starts for DunneganBoMo_98:
(3, 83174), (Start: 5 @83192 has 13 MA's), (7, 83201), (24, 83351), (27, 83399), (29, 83411), (36, 83486), (41, 83552),

Gene: Ellewin_97 Start: 82603, Stop: 82992, Start Num: 5
Candidate Starts for Ellewin_97:
(3, 82585), (Start: 5 @82603 has 13 MA's), (7, 82612), (24, 82762), (27, 82810), (29, 82822), (36, 82897), (41, 82963),

Gene: Emmetator_101 Start: 83147, Stop: 83536, Start Num: 5
Candidate Starts for Emmetator_101:
(3, 83129), (Start: 5 @83147 has 13 MA's), (7, 83156), (24, 83306), (27, 83354), (29, 83366), (36, 83441), (41, 83507),

Gene: Erasmago_207 Start: 112714, Stop: 112325, Start Num: 5
Candidate Starts for Erasmago_207:
(Start: 5 @112714 has 13 MA's), (33, 112423), (41, 112339), (42, 112333),

Gene: FloraSnap32_106 Start: 86285, Stop: 86695, Start Num: 6
Candidate Starts for FloraSnap32_106:
(Start: 6 @86285 has 10 MA's), (11, 86330), (14, 86354), (18, 86396), (36, 86588), (41, 86654),

Gene: FrostedClock_109 Start: 87582, Stop: 87974, Start Num: 6
Candidate Starts for FrostedClock_109:
(Start: 6 @87582 has 10 MA's), (11, 87627), (14, 87651), (18, 87693), (20, 87696), (22, 87711), (29, 87810), (41, 87951),

Gene: Gallia_6 Start: 1809, Stop: 2240, Start Num: 5
Candidate Starts for Gallia_6:
(Start: 5 @1809 has 13 MA's), (10, 1854), (23, 1962), (35, 2142), (38, 2157), (43, 2223),

Gene: GoldenEssence_95 Start: 81177, Stop: 81569, Start Num: 6
Candidate Starts for GoldenEssence_95:
(Start: 6 @81177 has 10 MA's), (11, 81222), (14, 81246), (18, 81288), (20, 81291), (29, 81405), (41, 81546),

Gene: KSunshine22_103 Start: 84204, Stop: 84593, Start Num: 5
Candidate Starts for KSunshine22_103:
(3, 84186), (Start: 5 @84204 has 13 MA's), (7, 84213), (24, 84363), (27, 84411), (29, 84423), (36, 84498), (41, 84564),

Gene: Laure_113 Start: 80107, Stop: 80523, Start Num: 6
Candidate Starts for Laure_113:
(Start: 6 @80107 has 10 MA's), (7, 80113), (14, 80176), (16, 80188), (23, 80239), (25, 80299), (29, 80335), (31, 80353), (41, 80476),

Gene: LeoJr_108 Start: 87557, Stop: 87946, Start Num: 5
Candidate Starts for LeoJr_108:
(Start: 5 @87557 has 13 MA's), (7, 87566), (24, 87716), (29, 87776), (36, 87851), (41, 87917),

Gene: Mimi_109 Start: 86732, Stop: 87124, Start Num: 6
Candidate Starts for Mimi_109:
(Start: 6 @86732 has 10 MA's), (11, 86777), (14, 86801), (18, 86843), (20, 86846), (22, 86861), (29, 86960), (41, 87101),

Gene: P1201_06 Start: 1911, Stop: 2423, Start Num: 1
Candidate Starts for P1201_06:
(1, 1911), (Start: 5 @1992 has 13 MA's), (10, 2037), (11, 2040), (15, 2076), (19, 2121), (23, 2145), (28, 2244), (35, 2325), (38, 2340), (40, 2358), (43, 2406),

Gene: Panchaali_100 Start: 84181, Stop: 84570, Start Num: 5
Candidate Starts for Panchaali_100:
(Start: 5 @84181 has 13 MA's), (7, 84190), (14, 84253), (27, 84388), (29, 84400), (41, 84541),

Gene: Patbob_108 Start: 87467, Stop: 87859, Start Num: 6
Candidate Starts for Patbob_108:
(Start: 6 @87467 has 10 MA's), (11, 87512), (14, 87536), (18, 87578), (20, 87581), (22, 87596), (29, 87695), (41, 87836),

Gene: PauloDiaboli_217 Start: 116264, Stop: 115872, Start Num: 5
Candidate Starts for PauloDiaboli_217:
(Start: 5 @116264 has 13 MA's), (8, 116240), (11, 116216), (12, 116201), (29, 116027), (32, 115973), (41, 115886),

Gene: Phrampa_102 Start: 88874, Stop: 89284, Start Num: 6
Candidate Starts for Phrampa_102:
(2, 88808), (Start: 6 @88874 has 10 MA's), (11, 88919), (14, 88943), (18, 88985), (26, 89087), (29, 89102), (41, 89243),

Gene: Pumpernickel_200 Start: 115630, Stop: 115226, Start Num: 5
Candidate Starts for Pumpernickel_200:
(Start: 5 @115630 has 13 MA's), (13, 115555), (23, 115492),

Gene: Racecar_110 Start: 87385, Stop: 87777, Start Num: 6

Candidate Starts for Racecar_110:
(Start: 6 @87385 has 10 MA's), (11, 87430), (14, 87454), (18, 87496), (20, 87499), (21, 87511), (22, 87514), (29, 87613), (41, 87754),

Gene: ReginaGlobina_108 Start: 87123, Stop: 87512, Start Num: 5
Candidate Starts for ReginaGlobina_108:
(Start: 5 @87123 has 13 MA's), (7, 87132), (24, 87282), (29, 87342), (36, 87417), (41, 87483),

Gene: Rockabye_110 Start: 80589, Stop: 80972, Start Num: 6
Candidate Starts for Rockabye_110:
(Start: 6 @80589 has 10 MA's), (7, 80595), (14, 80658), (16, 80670), (23, 80721), (25, 80772), (34, 80877), (39, 80907), (41, 80949),

Gene: SJReid_113 Start: 79637, Stop: 80056, Start Num: 6
Candidate Starts for SJReid_113:
(Start: 6 @79637 has 10 MA's), (7, 79643), (14, 79706), (16, 79718), (17, 79721), (25, 79820), (29, 79856), (41, 79997), (44, 80036),

Gene: Stewart25555_100 Start: 83929, Stop: 84318, Start Num: 5
Candidate Starts for Stewart25555_100:
(Start: 5 @83929 has 13 MA's), (7, 83938), (29, 84148), (41, 84289),

Gene: Tailonex_33 Start: 30435, Stop: 30088, Start Num: 9
Candidate Starts for Tailonex_33:
(9, 30435), (23, 30330), (24, 30291), (30, 30228), (33, 30180), (39, 30138),

Gene: Talia1610_109 Start: 86751, Stop: 87143, Start Num: 6
Candidate Starts for Talia1610_109:
(Start: 6 @86751 has 10 MA's), (11, 86796), (14, 86820), (18, 86862), (20, 86865), (21, 86877), (22, 86880), (29, 86979), (41, 87120),

Gene: WaddleDee_96 Start: 82378, Stop: 82767, Start Num: 5
Candidate Starts for WaddleDee_96:
(3, 82360), (Start: 5 @82378 has 13 MA's), (7, 82387), (24, 82537), (27, 82585), (29, 82597), (36, 82672), (41, 82738),

Gene: Zooman_184 Start: 110682, Stop: 110290, Start Num: 5
Candidate Starts for Zooman_184:
(Start: 4 @110685 has 1 MA's), (Start: 5 @110682 has 13 MA's), (11, 110634), (41, 110304),