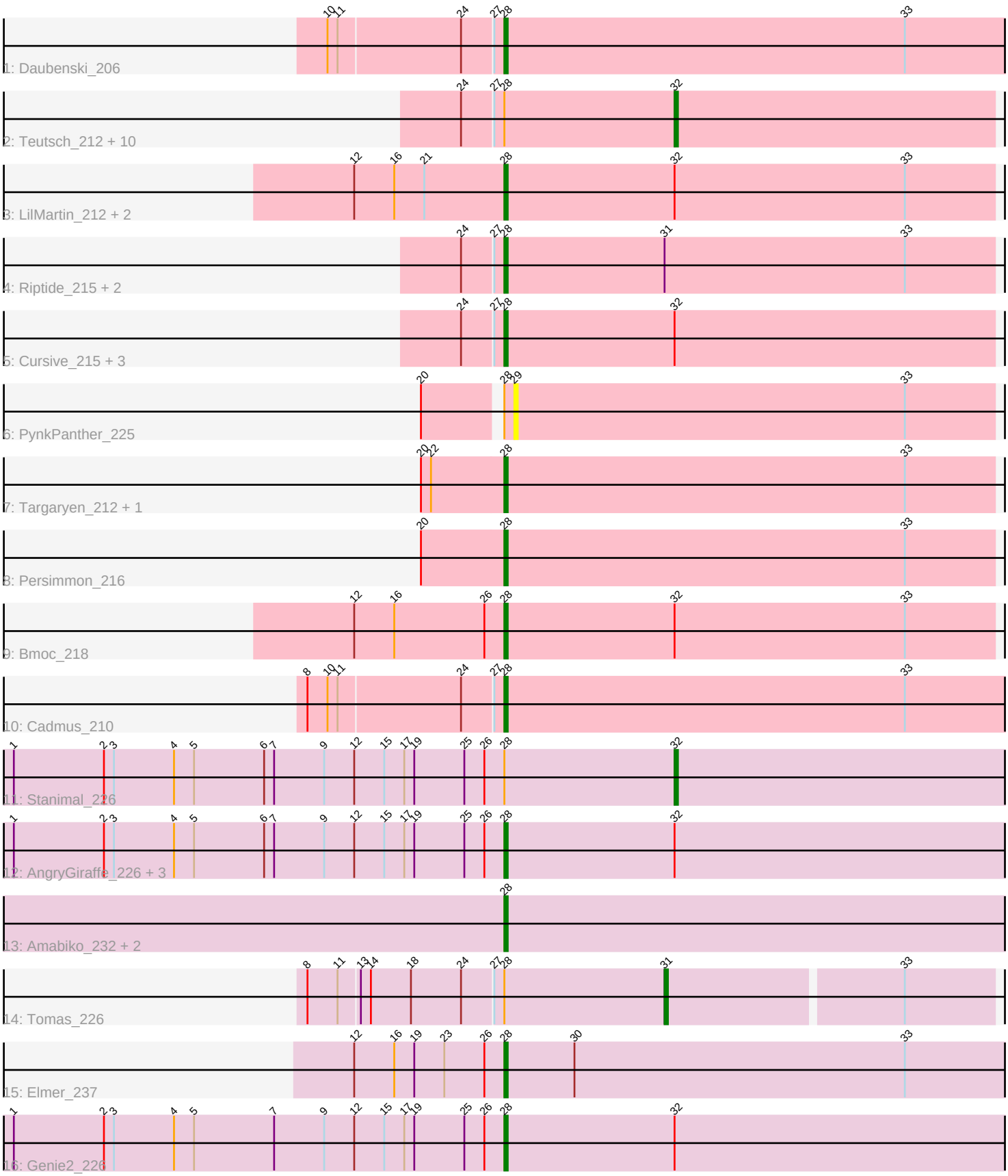
Pham 308892


1: Daubenski_206
2: Teutsch_212 + 10
3: LilMartin_212 + 2
4: Riptide_215 + 2
5: Cursive_215 + 3
6: PynkPanther_225
7: Targaryen_212 + 1
8: Persimmon_216
9: Bmoc_218
10: Cadmus_210
11: Stanimal_226
12: AngryGiraffe_226 + 3
13: Amabiko_232 + 2
14: Tomas_226
15: Elmer_237
16: Genie2_226

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 308892 Report

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

Pham number 308892 has 39 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Daubenski_206
• Track 2 : Teutsch_212, Watermoore_212, Tribute_209, Larnav_212, EGole_216, Samisti12_217, BlueOtter_211, HangryHippo_211, Pepperwood_213, Peebs_210, Cross_212
• Track 3 : LilMartin_212, Angela_215, MulchMansion_216
• Track 4 : Riptide_215, Anedea_227, LilSaint_215
• Track 5 : Cursive_215, Sushi23_213, Scheme_216, Coogler_210
• Track 6 : PynkPanther_225
• Track 7 : Targaryen_212, Warpy_216
• Track 8 : Persimmon_216
• Track 9 : Bmoc_218
• Track 10 : Cadmus_210
• Track 11 : Stanimal_226
• Track 12 : AngryGiraffe_226, Yaboi_231, Sollertia_227, BoomerJR_226
• Track 13 : Amabiko_232, Enygma_236, Mildred21_222
• Track 14 : Tomas_226
• Track 15 : Elmer_237
• Track 16 : Genie2_226

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

The start number called the most often in the published annotations is 28, it was called in 25 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_232, Anedea_227, Angela_215, AngryGiraffe_226, Bmoc_218, BoomerJR_226, Cadmus_210, Coogler_210, Cursive_215, Daubenski_206, Elmer_237, Enygma_236, Genie2_226, LilMartin_212, LilSaint_215, Mildred21_222, MulchMansion_216, Persimmon_216, Riptide_215, Scheme_216, Sollertia_227, Sushi23_213, Targaryen_212, Warpy_216, Yaboi_231,

Genes that have the "Most Annotated" start but do not call it:
• BlueOtter_211, Cross_212, EGole_216, HangryHippo_211, Larnav_212, Peebs_210, Pepperwood_213, PynkPanther_225, Samisti12_217, Stanimal_226,

Teutsch_212, Tomas_226, Tribute_209, Watermoore_212,

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

Summary by start number:

Start 28:
• Found in 39 of 39 (100.0%) of genes in pham
• Manual Annotations of this start: 25 of 38
• Called 64.1% of time when present
• Phage (with cluster) where this start called: Amabiko_232 (BE2), Anedea_227 (BE1), Angela_215 (BE1), AngryGiraffe_226 (BE2), Bmoc_218 (BE1), BoomerJR_226 (BE2), Cadmus_210 (BE1), Coogler_210 (BE1), Cursive_215 (BE1), Daubenski_206 (BE1), Elmer_237 (BE2), Enygma_236 (BE2), Genie2_226 (BE2), LilMartin_212 (BE1), LilSaint_215 (BE1), Mildred21_222 (BE1), MulchMansion_216 (BE1), Persimmon_216 (BE1), Riptide_215 (BE1), Scheme_216 (BE1), Sollertia_227 (BE2), Sushi23_213 (BE1), Targaryen_212 (BE1), Warpy_216 (BE1), Yaboi_231 (BE2),

Start 29:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PynkPanther_225 (BE1),

Start 31:
• Found in 4 of 39 (10.3%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Tomas_226 (BE2),

Start 32:
• Found in 25 of 39 (64.1%) of genes in pham
• Manual Annotations of this start: 12 of 38
• Called 48.0% of time when present
• Phage (with cluster) where this start called: BlueOtter_211 (BE1), Cross_212 (BE1), EGole_216 (BE1), HangryHippo_211 (BE1), Larnav_212 (BE1), Peebs_210 (BE1), Pepperwood_213 (BE1), Samisti12_217 (BE1), Stanimal_226 (BE2), Teutsch_212 (BE1), Tribute_209 (BE1), Watermoore_212 (BE1),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:
•Start number 28 was manually annotated 17 times for cluster BE1.
•Start number 32 was manually annotated 11 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 28 was manually annotated 8 times for cluster BE2.
•Start number 31 was manually annotated 1 time for cluster BE2.
•Start number 32 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Amabiko_232 Start: 108326, Stop: 108538, Start Num: 28
Candidate Starts for Amabiko_232:
(Start: 28 @108326 has 25 MA's),

Gene: Anedea_227 Start: 108996, Stop: 109190, Start Num: 28
Candidate Starts for Anedea_227:
(24, 108984), (27, 108993), (Start: 28 @108996 has 25 MA's), (Start: 31 @109044 has 1 MA's), (33, 109116),

Gene: Angela_215 Start: 106346, Stop: 106540, Start Num: 28
Candidate Starts for Angela_215:
(12, 106301), (16, 106313), (21, 106322), (Start: 28 @106346 has 25 MA's), (Start: 32 @106397 has 12 MA's), (33, 106466),

Gene: AngryGiraffe_226 Start: 108205, Stop: 108417, Start Num: 28
Candidate Starts for AngryGiraffe_226:
(1, 108058), (2, 108085), (3, 108088), (4, 108106), (5, 108112), (6, 108133), (7, 108136), (9, 108151), (12, 108160), (15, 108169), (17, 108175), (19, 108178), (25, 108193), (26, 108199), (Start: 28 @108205 has 25 MA's), (Start: 32 @108256 has 12 MA's),

Gene: BlueOtter_211 Start: 106797, Stop: 106940, Start Num: 32
Candidate Starts for BlueOtter_211:
(24, 106734), (27, 106743), (Start: 28 @106746 has 25 MA's), (Start: 32 @106797 has 12 MA's),

Gene: Bmoc_218 Start: 107192, Stop: 107386, Start Num: 28
Candidate Starts for Bmoc_218:
(12, 107147), (16, 107159), (26, 107186), (Start: 28 @107192 has 25 MA's), (Start: 32 @107243 has 12 MA's), (33, 107312),

Gene: BoomerJR_226 Start: 108638, Stop: 108850, Start Num: 28
Candidate Starts for BoomerJR_226:
(1, 108491), (2, 108518), (3, 108521), (4, 108539), (5, 108545), (6, 108566), (7, 108569), (9, 108584), (12, 108593), (15, 108602), (17, 108608), (19, 108611), (25, 108626), (26, 108632), (Start: 28 @108638 has 25 MA's), (Start: 32 @108689 has 12 MA's),

Gene: Cadmus_210 Start: 107541, Stop: 107744, Start Num: 28
Candidate Starts for Cadmus_210:
(8, 107484), (10, 107490), (11, 107493), (24, 107529), (27, 107538), (Start: 28 @107541 has 25 MA's), (33, 107661),

Gene: Coogler_210 Start: 107138, Stop: 107332, Start Num: 28
Candidate Starts for Coogler_210:
(24, 107126), (27, 107135), (Start: 28 @107138 has 25 MA's), (Start: 32 @107189 has 12 MA's),

Gene: Cross_212 Start: 107442, Stop: 107585, Start Num: 32
Candidate Starts for Cross_212:
(24, 107379), (27, 107388), (Start: 28 @107391 has 25 MA's), (Start: 32 @107442 has 12 MA's),

Gene: Cursive_215 Start: 107075, Stop: 107269, Start Num: 28
Candidate Starts for Cursive_215:
(24, 107063), (27, 107072), (Start: 28 @107075 has 25 MA's), (Start: 32 @107126 has 12 MA's),

Gene: Daubenski_206 Start: 107436, Stop: 107639, Start Num: 28
Candidate Starts for Daubenski_206:
(10, 107385), (11, 107388), (24, 107424), (27, 107433), (Start: 28 @107436 has 25 MA's), (33, 107556),

Gene: EGole_216 Start: 109139, Stop: 109282, Start Num: 32
Candidate Starts for EGole_216:
(24, 109076), (27, 109085), (Start: 28 @109088 has 25 MA's), (Start: 32 @109139 has 12 MA's),

Gene: Elmer_237 Start: 112214, Stop: 112426, Start Num: 28
Candidate Starts for Elmer_237:
(12, 112169), (16, 112181), (19, 112187), (23, 112196), (26, 112208), (Start: 28 @112214 has 25 MA's), (30, 112235), (33, 112334),

Gene: Enygma_236 Start: 111443, Stop: 111655, Start Num: 28
Candidate Starts for Enygma_236:
(Start: 28 @111443 has 25 MA's),

Gene: Genie2_226 Start: 108763, Stop: 108975, Start Num: 28
Candidate Starts for Genie2_226:
(1, 108616), (2, 108643), (3, 108646), (4, 108664), (5, 108670), (7, 108694), (9, 108709), (12, 108718), (15, 108727), (17, 108733), (19, 108736), (25, 108751), (26, 108757), (Start: 28 @108763 has 25 MA's), (Start: 32 @108814 has 12 MA's),

Gene: HangryHippo_211 Start: 106797, Stop: 106940, Start Num: 32
Candidate Starts for HangryHippo_211:
(24, 106734), (27, 106743), (Start: 28 @106746 has 25 MA's), (Start: 32 @106797 has 12 MA's),

Gene: Larnav_212 Start: 107258, Stop: 107401, Start Num: 32
Candidate Starts for Larnav_212:
(24, 107195), (27, 107204), (Start: 28 @107207 has 25 MA's), (Start: 32 @107258 has 12 MA's),

Gene: LilMartin_212 Start: 105710, Stop: 105904, Start Num: 28
Candidate Starts for LilMartin_212:
(12, 105665), (16, 105677), (21, 105686), (Start: 28 @105710 has 25 MA's), (Start: 32 @105761 has 12 MA's), (33, 105830),

Gene: LilSaint_215 Start: 107368, Stop: 107562, Start Num: 28
Candidate Starts for LilSaint_215:
(24, 107356), (27, 107365), (Start: 28 @107368 has 25 MA's), (Start: 31 @107416 has 1 MA's), (33, 107488),

Gene: Mildred21_222 Start: 105503, Stop: 105751, Start Num: 28
Candidate Starts for Mildred21_222:
(Start: 28 @105503 has 25 MA's),

Gene: MulchMansion_216 Start: 107344, Stop: 107538, Start Num: 28
Candidate Starts for MulchMansion_216:

(12, 107299), (16, 107311), (21, 107320), (Start: 28 @107344 has 25 MA's), (Start: 32 @107395 has 12 MA's), (33, 107464),

Gene: Peebs_210 Start: 107229, Stop: 107372, Start Num: 32
Candidate Starts for Peebs_210:
(24, 107166), (27, 107175), (Start: 28 @107178 has 25 MA's), (Start: 32 @107229 has 12 MA's),

Gene: Pepperwood_213 Start: 107461, Stop: 107604, Start Num: 32
Candidate Starts for Pepperwood_213:
(24, 107398), (27, 107407), (Start: 28 @107410 has 25 MA's), (Start: 32 @107461 has 12 MA's),

Gene: Persimmon_216 Start: 106493, Stop: 106687, Start Num: 28
Candidate Starts for Persimmon_216:
(20, 106472), (Start: 28 @106493 has 25 MA's), (33, 106613),

Gene: PynkPanther_225 Start: 107312, Stop: 107503, Start Num: 29
Candidate Starts for PynkPanther_225:
(20, 107288), (Start: 28 @107309 has 25 MA's), (29, 107312), (33, 107429),

Gene: Riptide_215 Start: 106526, Stop: 106720, Start Num: 28
Candidate Starts for Riptide_215:
(24, 106514), (27, 106523), (Start: 28 @106526 has 25 MA's), (Start: 31 @106574 has 1 MA's), (33, 106646),

Gene: Samisti12_217 Start: 109088, Stop: 109231, Start Num: 32
Candidate Starts for Samisti12_217:
(24, 109025), (27, 109034), (Start: 28 @109037 has 25 MA's), (Start: 32 @109088 has 12 MA's),

Gene: Scheme_216 Start: 108682, Stop: 108876, Start Num: 28
Candidate Starts for Scheme_216:
(24, 108670), (27, 108679), (Start: 28 @108682 has 25 MA's), (Start: 32 @108733 has 12 MA's),

Gene: Sollertia_227 Start: 108752, Stop: 108964, Start Num: 28
Candidate Starts for Sollertia_227:
(1, 108605), (2, 108632), (3, 108635), (4, 108653), (5, 108659), (6, 108680), (7, 108683), (9, 108698), (12, 108707), (15, 108716), (17, 108722), (19, 108725), (25, 108740), (26, 108746), (Start: 28 @108752 has 25 MA's), (Start: 32 @108803 has 12 MA's),

Gene: Stanimal_226 Start: 109175, Stop: 109336, Start Num: 32
Candidate Starts for Stanimal_226:
(1, 108977), (2, 109004), (3, 109007), (4, 109025), (5, 109031), (6, 109052), (7, 109055), (9, 109070), (12, 109079), (15, 109088), (17, 109094), (19, 109097), (25, 109112), (26, 109118), (Start: 28 @109124 has 25 MA's), (Start: 32 @109175 has 12 MA's),

Gene: Sushi23_213 Start: 108044, Stop: 108238, Start Num: 28
Candidate Starts for Sushi23_213:
(24, 108032), (27, 108041), (Start: 28 @108044 has 25 MA's), (Start: 32 @108095 has 12 MA's),

Gene: Targaryen_212 Start: 108246, Stop: 108440, Start Num: 28
Candidate Starts for Targaryen_212:
(20, 108225), (22, 108228), (Start: 28 @108246 has 25 MA's), (33, 108366),

Gene: Teutsch_212 Start: 107917, Stop: 108060, Start Num: 32

Candidate Starts for Teutsch_212:
(24, 107854), (27, 107863), (Start: 28 @107866 has 25 MA's), (Start: 32 @107917 has 12 MA's),

Gene: Tomas_226 Start: 109189, Stop: 109332, Start Num: 31
Candidate Starts for Tomas_226:
(8, 109084), (11, 109093), (13, 109099), (14, 109102), (18, 109114), (24, 109129), (27, 109138), (Start: 28 @109141 has 25 MA's), (Start: 31 @109189 has 1 MA's), (33, 109258),

Gene: Tribute_209 Start: 108082, Stop: 108225, Start Num: 32
Candidate Starts for Tribute_209:
(24, 108019), (27, 108028), (Start: 28 @108031 has 25 MA's), (Start: 32 @108082 has 12 MA's),

Gene: Warpy_216 Start: 107155, Stop: 107349, Start Num: 28
Candidate Starts for Warpy_216:
(20, 107134), (22, 107137), (Start: 28 @107155 has 25 MA's), (33, 107275),

Gene: Watermoore_212 Start: 108440, Stop: 108583, Start Num: 32
Candidate Starts for Watermoore_212:
(24, 108377), (27, 108386), (Start: 28 @108389 has 25 MA's), (Start: 32 @108440 has 12 MA's),

Gene: Yaboi_231 Start: 108687, Stop: 108899, Start Num: 28
Candidate Starts for Yaboi_231:
(1, 108540), (2, 108567), (3, 108570), (4, 108588), (5, 108594), (6, 108615), (7, 108618), (9, 108633), (12, 108642), (15, 108651), (17, 108657), (19, 108660), (25, 108675), (26, 108681), (Start: 28 @108687 has 25 MA's), (Start: 32 @108738 has 12 MA's),