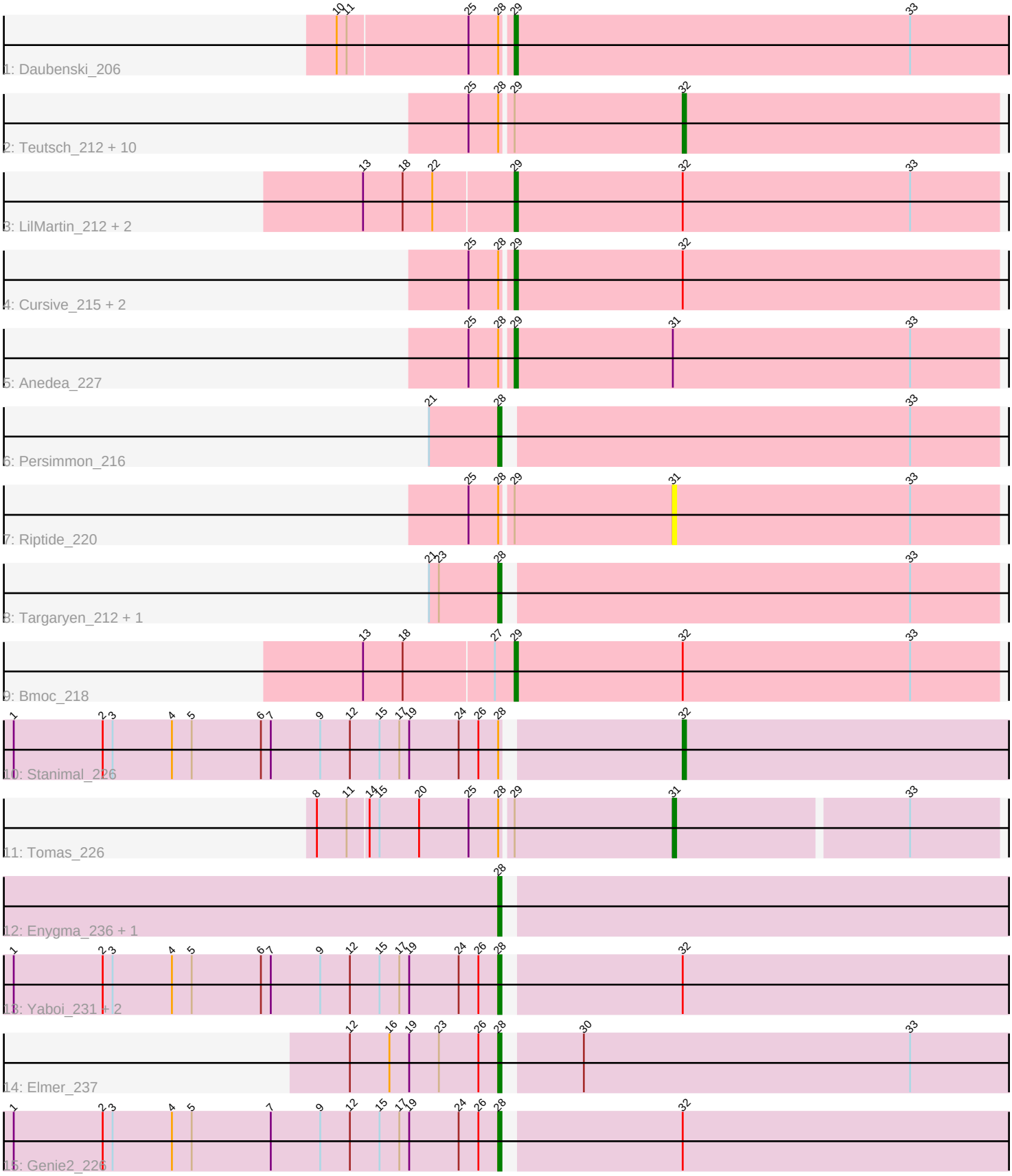
Pham 208833


1: Daubenski_206
2: Teutsch_212 + 10
3: LilMartin_212 + 2
4: Cursive_215 + 2
5: Anedea_227
6: Persimmon_216
7: Riptide_220
8: Targaryen_212 + 1
9: Bmoc_218
10: Stanimal_226
11: Tomas_226
12: Enygma_236 + 1
13: Yaboi_231 + 2
14: Elmer_237
15: 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 208833 Report

This analysis was run 02/22/25 on database version 588.

Pham number 208833 has 33 members, 2 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, Peebs_210, Pepperwood_213, Cross_212
• Track 3 : LilMartin_212, Angela_215, MulchMansion_216
• Track 4 : Cursive_215, Scheme_216, Sushi23_213
• Track 5 : Anedea_227
• Track 6 : Persimmon_216
• Track 7 : Riptide_220
• Track 8 : Targaryen_212, Warpy_216
• Track 9 : Bmoc_218
• Track 10 : Stanimal_226
• Track 11 : Tomas_226
• Track 12 : Enygma_236, Amabiko_232
• Track 13 : Yaboi_231, Sollertia_227, BoomerJR_226
• Track 14 : Elmer_237
• Track 15 : 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 32, it was called in 12 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BlueOtter_211, Cross_212, EGole_216, HangryHippo_211, Larnav_212, Peebs_210, Pepperwood_213, Samisti12_217, Stanimal_226, Teutsch_212, Tribute_209, Watermoore_212,

Genes that have the "Most Annotated" start but do not call it:
• Angela_215, Bmoc_218, BoomerJR_226, Cursive_215, Genie2_226, LilMartin_212, MulchMansion_216, Scheme_216, Sollertia_227, Sushi23_213, Yaboi_231,

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

• Amabiko_232, Anedea_227, Daubenski_206, Elmer_237, Enygma_236, Persimmon_216, Riptide_220, Targaryen_212, Tomas_226, Warpy_216,

Summary by start number:

Start 28:
• Found in 29 of 33 (87.9%) of genes in pham
• Manual Annotations of this start: 10 of 31
• Called 34.5% of time when present
• Phage (with cluster) where this start called: Amabiko_232 (BE2), BoomerJR_226 (BE2), Elmer_237 (BE2), Enygma_236 (BE2), Genie2_226 (BE2), Persimmon_216 (BE1), Sollertia_227 (BE2), Targaryen_212 (BE1), Warpy_216 (BE1), Yaboi_231 (BE2),

Start 29:
• Found in 22 of 33 (66.7%) of genes in pham
• Manual Annotations of this start: 8 of 31
• Called 40.9% of time when present
• Phage (with cluster) where this start called: Anedea_227 (BE1), Angela_215 (BE1), Bmoc_218 (BE1), Cursive_215 (BE1), Daubenski_206 (BE1), LilMartin_212 (BE1), MulchMansion_216 (BE1), Scheme_216 (BE1), Sushi23_213 (BE1),

Start 31:
• Found in 3 of 33 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Riptide_220 (BE1), Tomas_226 (BE2),

Start 32:
• Found in 23 of 33 (69.7%) of genes in pham
• Manual Annotations of this start: 12 of 31
• Called 52.2% 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 3 times for cluster BE1.
•Start number 29 was manually annotated 8 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 7 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 10 MA's),

Gene: Anedea_227 Start: 108996, Stop: 109190, Start Num: 29
Candidate Starts for Anedea_227:
(25, 108984), (Start: 28 @108993 has 10 MA's), (Start: 29 @108996 has 8 MA's), (Start: 31 @109044 has 1 MA's), (33, 109116),

Gene: Angela_215 Start: 106346, Stop: 106540, Start Num: 29
Candidate Starts for Angela_215:
(13, 106301), (18, 106313), (22, 106322), (Start: 29 @106346 has 8 MA's), (Start: 32 @106397 has 12 MA's), (33, 106466),

Gene: BlueOtter_211 Start: 106797, Stop: 106940, Start Num: 32
Candidate Starts for BlueOtter_211:
(25, 106734), (Start: 28 @106743 has 10 MA's), (Start: 29 @106746 has 8 MA's), (Start: 32 @106797 has 12 MA's),

Gene: Bmoc_218 Start: 107192, Stop: 107386, Start Num: 29
Candidate Starts for Bmoc_218:
(13, 107147), (18, 107159), (27, 107186), (Start: 29 @107192 has 8 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), (24, 108626), (26, 108632), (Start: 28 @108638 has 10 MA's), (Start: 32 @108689 has 12 MA's),

Gene: Cross_212 Start: 107442, Stop: 107585, Start Num: 32
Candidate Starts for Cross_212:
(25, 107379), (Start: 28 @107388 has 10 MA's), (Start: 29 @107391 has 8 MA's), (Start: 32 @107442 has 12 MA's),

Gene: Cursive_215 Start: 107075, Stop: 107269, Start Num: 29
Candidate Starts for Cursive_215:
(25, 107063), (Start: 28 @107072 has 10 MA's), (Start: 29 @107075 has 8 MA's), (Start: 32 @107126 has 12 MA's),

Gene: Daubenski_206 Start: 107436, Stop: 107639, Start Num: 29
Candidate Starts for Daubenski_206:
(10, 107385), (11, 107388), (25, 107424), (Start: 28 @107433 has 10 MA's), (Start: 29 @107436 has 8 MA's), (33, 107556),

Gene: EGole_216 Start: 109139, Stop: 109282, Start Num: 32
Candidate Starts for EGole_216:
(25, 109076), (Start: 28 @109085 has 10 MA's), (Start: 29 @109088 has 8 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 10 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 10 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), (24, 108751), (26, 108757), (Start: 28 @108763 has 10 MA's), (Start: 32 @108814 has 12 MA's),

Gene: HangryHippo_211 Start: 106797, Stop: 106940, Start Num: 32
Candidate Starts for HangryHippo_211:
(25, 106734), (Start: 28 @106743 has 10 MA's), (Start: 29 @106746 has 8 MA's), (Start: 32 @106797 has 12 MA's),

Gene: Larnav_212 Start: 107258, Stop: 107401, Start Num: 32
Candidate Starts for Larnav_212:
(25, 107195), (Start: 28 @107204 has 10 MA's), (Start: 29 @107207 has 8 MA's), (Start: 32 @107258 has 12 MA's),

Gene: LilMartin_212 Start: 105710, Stop: 105904, Start Num: 29
Candidate Starts for LilMartin_212:
(13, 105665), (18, 105677), (22, 105686), (Start: 29 @105710 has 8 MA's), (Start: 32 @105761 has 12 MA's), (33, 105830),

Gene: MulchMansion_216 Start: 107344, Stop: 107538, Start Num: 29
Candidate Starts for MulchMansion_216:
(13, 107299), (18, 107311), (22, 107320), (Start: 29 @107344 has 8 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:
(25, 107166), (Start: 28 @107175 has 10 MA's), (Start: 29 @107178 has 8 MA's), (Start: 32 @107229 has 12 MA's),

Gene: Pepperwood_213 Start: 107461, Stop: 107604, Start Num: 32
Candidate Starts for Pepperwood_213:
(25, 107398), (Start: 28 @107407 has 10 MA's), (Start: 29 @107410 has 8 MA's), (Start: 32 @107461 has 12 MA's),

Gene: Persimmon_216 Start: 106493, Stop: 106687, Start Num: 28
Candidate Starts for Persimmon_216:
(21, 106472), (Start: 28 @106493 has 10 MA's), (33, 106613),

Gene: Riptide_220 Start: 106574, Stop: 106720, Start Num: 31
Candidate Starts for Riptide_220:
(25, 106514), (Start: 28 @106523 has 10 MA's), (Start: 29 @106526 has 8 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:
(25, 109025), (Start: 28 @109034 has 10 MA's), (Start: 29 @109037 has 8 MA's), (Start: 32 @109088 has 12 MA's),

Gene: Scheme_216 Start: 108682, Stop: 108876, Start Num: 29
Candidate Starts for Scheme_216:
(25, 108670), (Start: 28 @108679 has 10 MA's), (Start: 29 @108682 has 8 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), (24, 108740), (26, 108746), (Start: 28 @108752 has 10 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), (24, 109112), (26, 109118), (Start: 28 @109124 has 10 MA's), (Start: 32 @109175 has 12 MA's),

Gene: Sushi23_213 Start: 108044, Stop: 108238, Start Num: 29
Candidate Starts for Sushi23_213:
(25, 108032), (Start: 28 @108041 has 10 MA's), (Start: 29 @108044 has 8 MA's), (Start: 32 @108095 has 12 MA's),

Gene: Targaryen_212 Start: 108246, Stop: 108440, Start Num: 28
Candidate Starts for Targaryen_212:
(21, 108225), (23, 108228), (Start: 28 @108246 has 10 MA's), (33, 108366),

Gene: Teutsch_212 Start: 107917, Stop: 108060, Start Num: 32
Candidate Starts for Teutsch_212:
(25, 107854), (Start: 28 @107863 has 10 MA's), (Start: 29 @107866 has 8 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), (14, 109099), (15, 109102), (20, 109114), (25, 109129), (Start: 28 @109138 has 10 MA's), (Start: 29 @109141 has 8 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:
(25, 108019), (Start: 28 @108028 has 10 MA's), (Start: 29 @108031 has 8 MA's), (Start: 32 @108082 has 12 MA's),

Gene: Warpy_216 Start: 107155, Stop: 107349, Start Num: 28
Candidate Starts for Warpy_216:
(21, 107134), (23, 107137), (Start: 28 @107155 has 10 MA's), (33, 107275),

Gene: Watermoore_212 Start: 108440, Stop: 108583, Start Num: 32
Candidate Starts for Watermoore_212:

(25, 108377), (Start: 28 @108386 has 10 MA's), (Start: 29 @108389 has 8 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), (24, 108675), (26, 108681), (Start: 28 @108687 has 10 MA's), (Start: 32 @108738 has 12 MA's),