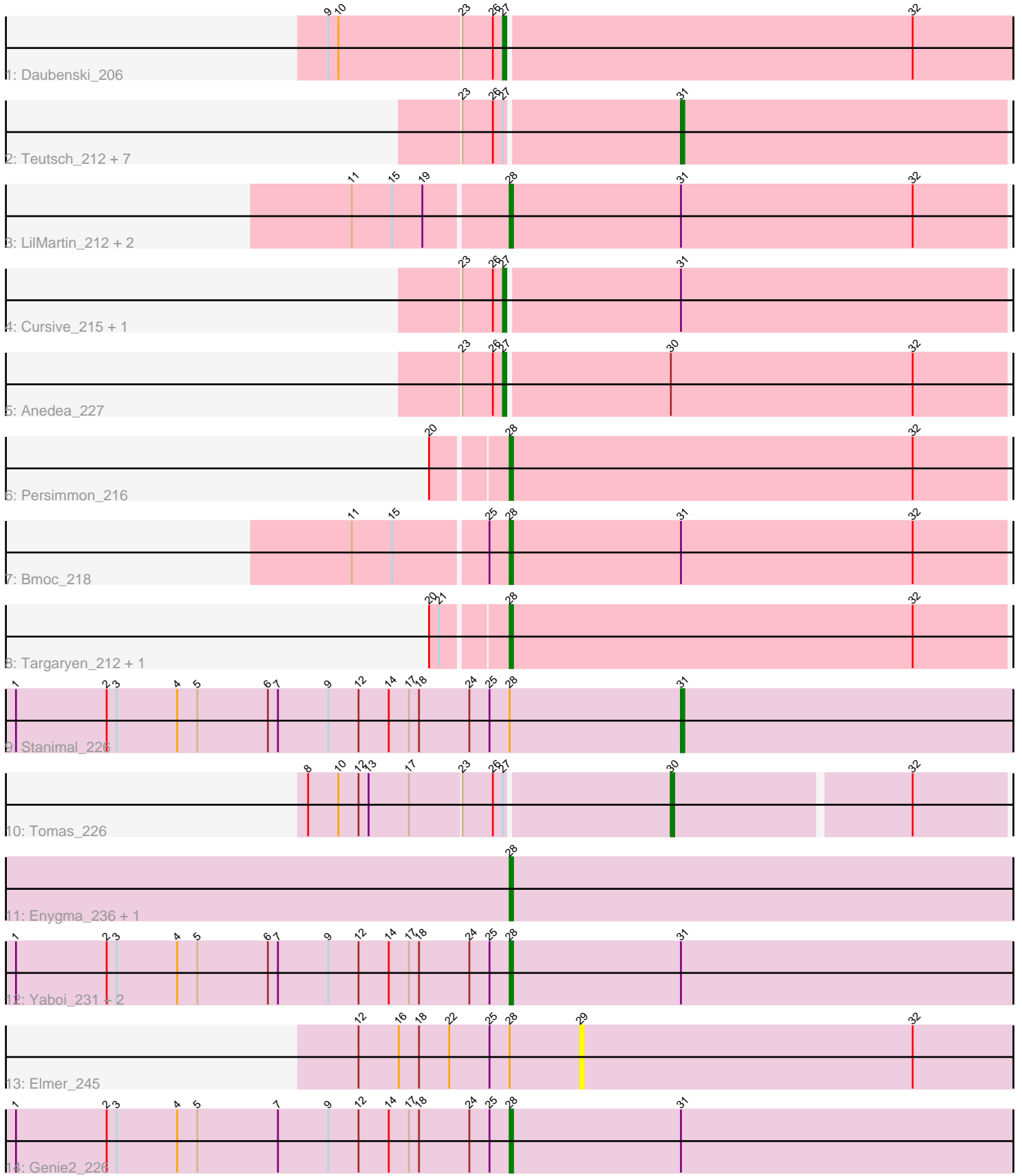


Pham 171693



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 171693 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171693 has 28 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Daubenski_206
- Track 2 : Teutsch_212, Watermoore_212, Tribute_209, EGole_216, Samisti12_217, Pepperwood_213, Peebs_210, Cross_212
- Track 3 : LilMartin_212, Angela_215, MulchMansion_216
- Track 4 : Cursive_215, Sushi23_213
- Track 5 : Anedea_227
- Track 6 : Persimmon_216
- Track 7 : Bmoc_218
- Track 8 : Targaryen_212, Warpy_216
- Track 9 : Stanimal_226
- Track 10 : Tomas_226
- Track 11 : Enygma_236, Amabiko_232
- Track 12 : Yaboi_231, Sollertia_227, BoomerJR_226
- Track 13 : Elmer_245
- Track 14 : 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 13 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_232, Angela_215, Bmoc_218, BoomerJR_226, Enygma_236, Genie2_226, LilMartin_212, MulchMansion_216, Persimmon_216, Sollertia_227, Targaryen_212, Warpy_216, Yaboi_231,

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

- Elmer_245, Stanimal_226,

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

- Anedea_227, Cross_212, Cursive_215, Daubenski_206, EGole_216, Peebs_210, Pepperwood_213, Samisti12_217, Sushi23_213, Teutsch_212, Tomas_226, Tribute_209, Watermoore_212,

Summary by start number:

Start 27:

- Found in 13 of 28 (46.4%) of genes in pham
- Manual Annotations of this start: 4 of 27
- Called 30.8% of time when present
- Phage (with cluster) where this start called: Anedea_227 (BE1), Cursive_215 (BE1), Daubenski_206 (BE1), Sushi23_213 (BE1),

Start 28:

- Found in 15 of 28 (53.6%) of genes in pham
- Manual Annotations of this start: 13 of 27
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Amabiko_232 (BE2), Angela_215 (BE1), Bmoc_218 (BE1), BoomerJR_226 (BE2), Enygma_236 (BE2), Genie2_226 (BE2), LilMartin_212 (BE1), MulchMansion_216 (BE1), Persimmon_216 (BE1), Sollertia_227 (BE2), Targaryen_212 (BE1), Warpy_216 (BE1), Yaboi_231 (BE2),

Start 29:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elmer_245 (BE2),

Start 30:

- Found in 2 of 28 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tomas_226 (BE2),

Start 31:

- Found in 19 of 28 (67.9%) of genes in pham
- Manual Annotations of this start: 9 of 27
- Called 47.4% of time when present
- Phage (with cluster) where this start called: Cross_212 (BE1), EGole_216 (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 27 was manually annotated 4 times for cluster BE1.
- Start number 28 was manually annotated 7 times for cluster BE1.
- Start number 31 was manually annotated 8 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 28 was manually annotated 6 times for cluster BE2.
- Start number 30 was manually annotated 1 time for cluster BE2.
- Start number 31 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 13 MA's),

Gene: Anedea_227 Start: 108996, Stop: 109190, Start Num: 27

Candidate Starts for Anedea_227:

(23, 108984), (26, 108993), (Start: 27 @108996 has 4 MA's), (Start: 30 @109044 has 1 MA's), (32, 109116),

Gene: Angela_215 Start: 106346, Stop: 106540, Start Num: 28

Candidate Starts for Angela_215:

(11, 106301), (15, 106313), (19, 106322), (Start: 28 @106346 has 13 MA's), (Start: 31 @106397 has 9 MA's), (32, 106466),

Gene: Bmoc_218 Start: 107192, Stop: 107386, Start Num: 28

Candidate Starts for Bmoc_218:

(11, 107147), (15, 107159), (25, 107186), (Start: 28 @107192 has 13 MA's), (Start: 31 @107243 has 9 MA's), (32, 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), (14, 108602), (17, 108608), (18, 108611), (24, 108626), (25, 108632), (Start: 28 @108638 has 13 MA's), (Start: 31 @108689 has 9 MA's),

Gene: Cross_212 Start: 107442, Stop: 107585, Start Num: 31

Candidate Starts for Cross_212:

(23, 107379), (26, 107388), (Start: 27 @107391 has 4 MA's), (Start: 31 @107442 has 9 MA's),

Gene: Cursive_215 Start: 107075, Stop: 107269, Start Num: 27

Candidate Starts for Cursive_215:

(23, 107063), (26, 107072), (Start: 27 @107075 has 4 MA's), (Start: 31 @107126 has 9 MA's),

Gene: Daubenski_206 Start: 107436, Stop: 107639, Start Num: 27

Candidate Starts for Daubenski_206:

(9, 107385), (10, 107388), (23, 107424), (26, 107433), (Start: 27 @107436 has 4 MA's), (32, 107556),

Gene: EGole_216 Start: 109139, Stop: 109282, Start Num: 31

Candidate Starts for EGole_216:

(23, 109076), (26, 109085), (Start: 27 @109088 has 4 MA's), (Start: 31 @109139 has 9 MA's),

Gene: Elmer_245 Start: 112235, Stop: 112426, Start Num: 29

Candidate Starts for Elmer_245:

(12, 112169), (16, 112181), (18, 112187), (22, 112196), (25, 112208), (Start: 28 @112214 has 13 MA's), (29, 112235), (32, 112334),

Gene: Enygma_236 Start: 111443, Stop: 111655, Start Num: 28

Candidate Starts for Enygma_236:

(Start: 28 @111443 has 13 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), (14, 108727), (17, 108733), (18, 108736), (24, 108751), (25, 108757), (Start: 28 @108763 has 13 MA's), (Start: 31 @108814 has 9 MA's),

Gene: LilMartin_212 Start: 105710, Stop: 105904, Start Num: 28

Candidate Starts for LilMartin_212:

(11, 105665), (15, 105677), (19, 105686), (Start: 28 @105710 has 13 MA's), (Start: 31 @105761 has 9 MA's), (32, 105830),

Gene: MulchMansion_216 Start: 107344, Stop: 107538, Start Num: 28

Candidate Starts for MulchMansion_216:

(11, 107299), (15, 107311), (19, 107320), (Start: 28 @107344 has 13 MA's), (Start: 31 @107395 has 9 MA's), (32, 107464),

Gene: Peebs_210 Start: 107229, Stop: 107372, Start Num: 31

Candidate Starts for Peebs_210:

(23, 107166), (26, 107175), (Start: 27 @107178 has 4 MA's), (Start: 31 @107229 has 9 MA's),

Gene: Pepperwood_213 Start: 107461, Stop: 107604, Start Num: 31

Candidate Starts for Pepperwood_213:

(23, 107398), (26, 107407), (Start: 27 @107410 has 4 MA's), (Start: 31 @107461 has 9 MA's),

Gene: Persimmon_216 Start: 106493, Stop: 106687, Start Num: 28

Candidate Starts for Persimmon_216:

(20, 106472), (Start: 28 @106493 has 13 MA's), (32, 106613),

Gene: Samisti12_217 Start: 109088, Stop: 109231, Start Num: 31

Candidate Starts for Samisti12_217:

(23, 109025), (26, 109034), (Start: 27 @109037 has 4 MA's), (Start: 31 @109088 has 9 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), (14, 108716), (17, 108722), (18, 108725), (24, 108740), (25, 108746), (Start: 28 @108752 has 13 MA's), (Start: 31 @108803 has 9 MA's),

Gene: Stanimal_226 Start: 109175, Stop: 109336, Start Num: 31

Candidate Starts for Stanimal_226:

(1, 108977), (2, 109004), (3, 109007), (4, 109025), (5, 109031), (6, 109052), (7, 109055), (9, 109070), (12, 109079), (14, 109088), (17, 109094), (18, 109097), (24, 109112), (25, 109118), (Start: 28 @109124 has 13 MA's), (Start: 31 @109175 has 9 MA's),

Gene: Sushi23_213 Start: 108044, Stop: 108238, Start Num: 27

Candidate Starts for Sushi23_213:

(23, 108032), (26, 108041), (Start: 27 @108044 has 4 MA's), (Start: 31 @108095 has 9 MA's),

Gene: Targaryen_212 Start: 108246, Stop: 108440, Start Num: 28

Candidate Starts for Targaryen_212:

(20, 108225), (21, 108228), (Start: 28 @108246 has 13 MA's), (32, 108366),

Gene: Teutsch_212 Start: 107917, Stop: 108060, Start Num: 31

Candidate Starts for Teutsch_212:

(23, 107854), (26, 107863), (Start: 27 @107866 has 4 MA's), (Start: 31 @107917 has 9 MA's),

Gene: Tomas_226 Start: 109189, Stop: 109332, Start Num: 30

Candidate Starts for Tomas_226:

(8, 109084), (10, 109093), (12, 109099), (13, 109102), (17, 109114), (23, 109129), (26, 109138),
(Start: 27 @109141 has 4 MA's), (Start: 30 @109189 has 1 MA's), (32, 109258),

Gene: Tribute_209 Start: 108082, Stop: 108225, Start Num: 31

Candidate Starts for Tribute_209:

(23, 108019), (26, 108028), (Start: 27 @108031 has 4 MA's), (Start: 31 @108082 has 9 MA's),

Gene: Warpy_216 Start: 107155, Stop: 107349, Start Num: 28

Candidate Starts for Warpy_216:

(20, 107134), (21, 107137), (Start: 28 @107155 has 13 MA's), (32, 107275),

Gene: Watermoore_212 Start: 108440, Stop: 108583, Start Num: 31

Candidate Starts for Watermoore_212:

(23, 108377), (26, 108386), (Start: 27 @108389 has 4 MA's), (Start: 31 @108440 has 9 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), (14, 108651), (17, 108657), (18, 108660), (24, 108675), (25, 108681), (Start: 28
@108687 has 13 MA's), (Start: 31 @108738 has 9 MA's),