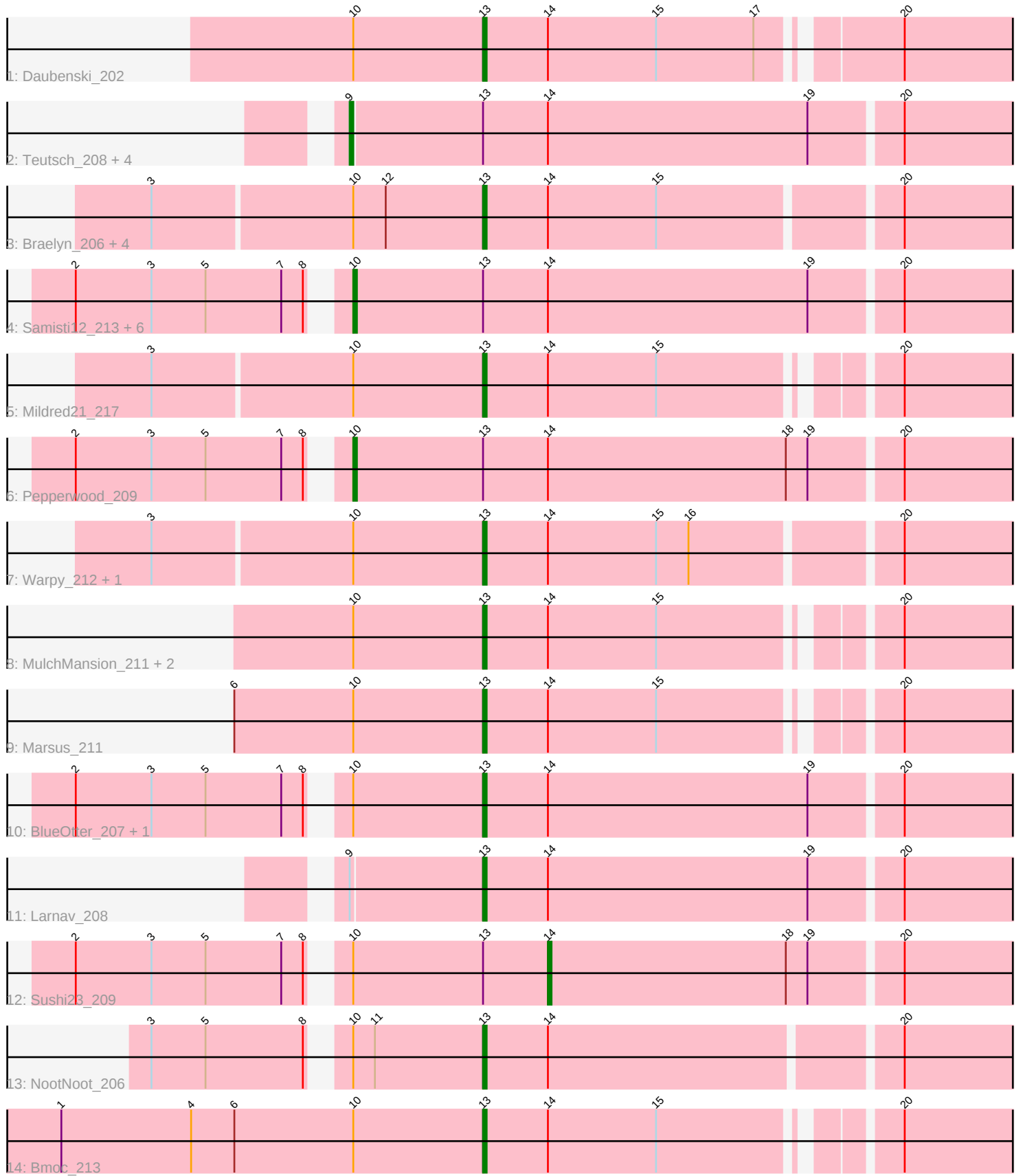


Pham 331082



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 331082 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331082 has 32 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Daubenski_202
- Track 2 : Deutsch_208, Peebs_206, EGole_212, Leo04_210, Coogler_206
- Track 3 : Braelyn_206, Navo_204, Davielle_209, Persimmon_212, Bartholomune_210
- Track 4 : Samisti12_213, Lululemon_206, ArianaSWT_220, Watermoore_208, PacManQ_206, Cross_208, Cursive_211
- Track 5 : Mildred21_217
- Track 6 : Pepperwood_209
- Track 7 : Warpy_212, Jay2Jay_214
- Track 8 : MulchMansion_211, LilMartin_207, Angela_210
- Track 9 : Marsus_211
- Track 10 : BlueOtter_207, HangryHippo_207
- Track 11 : Larnav_208
- Track 12 : Sushi23_209
- Track 13 : NootNoot_206
- Track 14 : Bmoc_213

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

The start number called the most often in the published annotations is 13, it was called in 18 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angela_210, Bartholomune_210, BlueOtter_207, Bmoc_213, Braelyn_206, Daubenski_202, Davielle_209, HangryHippo_207, Jay2Jay_214, Larnav_208, LilMartin_207, Marsus_211, Mildred21_217, MulchMansion_211, Navo_204, NootNoot_206, Persimmon_212, Warpy_212,

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

- ArianaSWT_220, Coogler_206, Cross_208, Cursive_211, EGole_212, Leo04_210, Lululemon_206, PacManQ_206, Peebs_206, Pepperwood_209, Samisti12_213, Sushi23_209, Deutsch_208, Watermoore_208,

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

•

Summary by start number:

Start 9:

- Found in 6 of 32 (18.8%) of genes in pham
- Manual Annotations of this start: 5 of 31
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Coogler_206 (BE1), EGole_212 (BE1), Leo04_210 (BE1), Peebs_206 (BE1), Teutsch_208 (BE1),

Start 10:

- Found in 26 of 32 (81.2%) of genes in pham
- Manual Annotations of this start: 7 of 31
- Called 30.8% of time when present
- Phage (with cluster) where this start called: ArianaSWT_220 (BE1), Cross_208 (BE1), Cursive_211 (BE1), Lululemon_206 (BE1), PacManQ_206 (BE1), Pepperwood_209 (BE1), Samisti12_213 (BE1), Watermoore_208 (BE1),

Start 13:

- Found in 32 of 32 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 31
- Called 56.2% of time when present
- Phage (with cluster) where this start called: Angela_210 (BE1), Bartholomune_210 (BE1), BlueOtter_207 (BE1), Bmoc_213 (BE1), Braelyn_206 (BE1), Daubenski_202 (BE1), Davielle_209 (BE1), HangryHippo_207 (BE1), Jay2Jay_214 (BE1), Larnav_208 (BE1), LilMartin_207 (BE1), Marsus_211 (BE1), Mildred21_217 (BE1), MulchMansion_211 (BE1), Navo_204 (BE1), NootNoot_206 (BE1), Persimmon_212 (BE1), Warpy_212 (BE1),

Start 14:

- Found in 32 of 32 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Sushi23_209 (BE1),

Summary by clusters:

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:

- Start number 9 was manually annotated 5 times for cluster BE1.
- Start number 10 was manually annotated 7 times for cluster BE1.
- Start number 13 was manually annotated 18 times for cluster BE1.
- Start number 14 was manually annotated 1 time for cluster BE1.

Gene Information:

Gene: Angela_210 Start: 105164, Stop: 105301, Start Num: 13

Candidate Starts for Angela_210:

(Start: 10 @105128 has 7 MA's), (Start: 13 @105164 has 18 MA's), (Start: 14 @105182 has 1 MA's), (15, 105212), (20, 105269),

Gene: ArianaSWT_220 Start: 107567, Stop: 107770, Start Num: 10

Candidate Starts for ArianaSWT_220:

(2, 107498), (3, 107519), (5, 107534), (7, 107555), (8, 107561), (Start: 10 @107567 has 7 MA's), (Start: 13 @107603 has 18 MA's), (Start: 14 @107621 has 1 MA's), (19, 107693), (20, 107717),

Gene: Bartholomune_210 Start: 105719, Stop: 105883, Start Num: 13

Candidate Starts for Bartholomune_210:

(3, 105629), (Start: 10 @105683 has 7 MA's), (12, 105692), (Start: 13 @105719 has 18 MA's), (Start: 14 @105737 has 1 MA's), (15, 105767), (20, 105830),

Gene: BlueOtter_207 Start: 105856, Stop: 106023, Start Num: 13

Candidate Starts for BlueOtter_207:

(2, 105751), (3, 105772), (5, 105787), (7, 105808), (8, 105814), (Start: 10 @105820 has 7 MA's), (Start: 13 @105856 has 18 MA's), (Start: 14 @105874 has 1 MA's), (19, 105946), (20, 105970),

Gene: Bmoc_213 Start: 105977, Stop: 106114, Start Num: 13

Candidate Starts for Bmoc_213:

(1, 105860), (4, 105896), (6, 105908), (Start: 10 @105941 has 7 MA's), (Start: 13 @105977 has 18 MA's), (Start: 14 @105995 has 1 MA's), (15, 106025), (20, 106082),

Gene: Braelyn_206 Start: 105366, Stop: 105530, Start Num: 13

Candidate Starts for Braelyn_206:

(3, 105276), (Start: 10 @105330 has 7 MA's), (12, 105339), (Start: 13 @105366 has 18 MA's), (Start: 14 @105384 has 1 MA's), (15, 105414), (20, 105477),

Gene: Coogler_206 Start: 106212, Stop: 106415, Start Num: 9

Candidate Starts for Coogler_206:

(Start: 9 @106212 has 5 MA's), (Start: 13 @106248 has 18 MA's), (Start: 14 @106266 has 1 MA's), (19, 106338), (20, 106362),

Gene: Cross_208 Start: 106465, Stop: 106668, Start Num: 10

Candidate Starts for Cross_208:

(2, 106396), (3, 106417), (5, 106432), (7, 106453), (8, 106459), (Start: 10 @106465 has 7 MA's), (Start: 13 @106501 has 18 MA's), (Start: 14 @106519 has 1 MA's), (19, 106591), (20, 106615),

Gene: Cursive_211 Start: 106149, Stop: 106352, Start Num: 10

Candidate Starts for Cursive_211:

(2, 106080), (3, 106101), (5, 106116), (7, 106137), (8, 106143), (Start: 10 @106149 has 7 MA's), (Start: 13 @106185 has 18 MA's), (Start: 14 @106203 has 1 MA's), (19, 106275), (20, 106299),

Gene: Daubenski_202 Start: 106555, Stop: 106716, Start Num: 13

Candidate Starts for Daubenski_202:

(Start: 10 @106519 has 7 MA's), (Start: 13 @106555 has 18 MA's), (Start: 14 @106573 has 1 MA's), (15, 106603), (17, 106630), (20, 106663),

Gene: Davielle_209 Start: 105764, Stop: 105928, Start Num: 13

Candidate Starts for Davielle_209:

(3, 105674), (Start: 10 @105728 has 7 MA's), (12, 105737), (Start: 13 @105764 has 18 MA's), (Start: 14 @105782 has 1 MA's), (15, 105812), (20, 105875),

Gene: EGole_212 Start: 108162, Stop: 108365, Start Num: 9

Candidate Starts for EGole_212:

(Start: 9 @108162 has 5 MA's), (Start: 13 @108198 has 18 MA's), (Start: 14 @108216 has 1 MA's), (19, 108288), (20, 108312),

Gene: HangryHippo_207 Start: 105856, Stop: 106023, Start Num: 13

Candidate Starts for HangryHippo_207:

(2, 105751), (3, 105772), (5, 105787), (7, 105808), (8, 105814), (Start: 10 @105820 has 7 MA's), (Start: 13 @105856 has 18 MA's), (Start: 14 @105874 has 1 MA's), (19, 105946), (20, 105970),

Gene: Jay2Jay_214 Start: 106812, Stop: 106976, Start Num: 13

Candidate Starts for Jay2Jay_214:

(3, 106722), (Start: 10 @106776 has 7 MA's), (Start: 13 @106812 has 18 MA's), (Start: 14 @106830 has 1 MA's), (15, 106860), (16, 106869), (20, 106923),

Gene: Larnav_208 Start: 106317, Stop: 106484, Start Num: 13

Candidate Starts for Larnav_208:

(Start: 9 @106281 has 5 MA's), (Start: 13 @106317 has 18 MA's), (Start: 14 @106335 has 1 MA's), (19, 106407), (20, 106431),

Gene: Leo04_210 Start: 106846, Stop: 107049, Start Num: 9

Candidate Starts for Leo04_210:

(Start: 9 @106846 has 5 MA's), (Start: 13 @106882 has 18 MA's), (Start: 14 @106900 has 1 MA's), (19, 106972), (20, 106996),

Gene: LilMartin_207 Start: 104528, Stop: 104665, Start Num: 13

Candidate Starts for LilMartin_207:

(Start: 10 @104492 has 7 MA's), (Start: 13 @104528 has 18 MA's), (Start: 14 @104546 has 1 MA's), (15, 104576), (20, 104633),

Gene: Lululemon_206 Start: 105201, Stop: 105404, Start Num: 10

Candidate Starts for Lululemon_206:

(2, 105132), (3, 105153), (5, 105168), (7, 105189), (8, 105195), (Start: 10 @105201 has 7 MA's), (Start: 13 @105237 has 18 MA's), (Start: 14 @105255 has 1 MA's), (19, 105327), (20, 105351),

Gene: Marsus_211 Start: 106272, Stop: 106409, Start Num: 13

Candidate Starts for Marsus_211:

(6, 106203), (Start: 10 @106236 has 7 MA's), (Start: 13 @106272 has 18 MA's), (Start: 14 @106290 has 1 MA's), (15, 106320), (20, 106377),

Gene: Mildred21_217 Start: 104294, Stop: 104452, Start Num: 13

Candidate Starts for Mildred21_217:

(3, 104204), (Start: 10 @104258 has 7 MA's), (Start: 13 @104294 has 18 MA's), (Start: 14 @104312 has 1 MA's), (15, 104342), (20, 104399),

Gene: MulchMansion_211 Start: 106162, Stop: 106299, Start Num: 13

Candidate Starts for MulchMansion_211:

(Start: 10 @106126 has 7 MA's), (Start: 13 @106162 has 18 MA's), (Start: 14 @106180 has 1 MA's), (15, 106210), (20, 106267),

Gene: Navo_204 Start: 104570, Stop: 104734, Start Num: 13

Candidate Starts for Navo_204:

(3, 104480), (Start: 10 @104534 has 7 MA's), (12, 104543), (Start: 13 @104570 has 18 MA's), (Start: 14 @104588 has 1 MA's), (15, 104618), (20, 104681),

Gene: NootNoot_206 Start: 104774, Stop: 104938, Start Num: 13

Candidate Starts for NootNoot_206:

(3, 104690), (5, 104705), (8, 104732), (Start: 10 @104738 has 7 MA's), (11, 104744), (Start: 13 @104774 has 18 MA's), (Start: 14 @104792 has 1 MA's), (20, 104885),

Gene: PacManQ_206 Start: 105201, Stop: 105404, Start Num: 10

Candidate Starts for PacManQ_206:

(2, 105132), (3, 105153), (5, 105168), (7, 105189), (8, 105195), (Start: 10 @105201 has 7 MA's), (Start: 13 @105237 has 18 MA's), (Start: 14 @105255 has 1 MA's), (19, 105327), (20, 105351),

Gene: Peebs_206 Start: 106252, Stop: 106455, Start Num: 9

Candidate Starts for Peebs_206:

(Start: 9 @106252 has 5 MA's), (Start: 13 @106288 has 18 MA's), (Start: 14 @106306 has 1 MA's), (19, 106378), (20, 106402),

Gene: Pepperwood_209 Start: 106487, Stop: 106690, Start Num: 10

Candidate Starts for Pepperwood_209:

(2, 106418), (3, 106439), (5, 106454), (7, 106475), (8, 106481), (Start: 10 @106487 has 7 MA's), (Start: 13 @106523 has 18 MA's), (Start: 14 @106541 has 1 MA's), (18, 106607), (19, 106613), (20, 106637),

Gene: Persimmon_212 Start: 105588, Stop: 105752, Start Num: 13

Candidate Starts for Persimmon_212:

(3, 105498), (Start: 10 @105552 has 7 MA's), (12, 105561), (Start: 13 @105588 has 18 MA's), (Start: 14 @105606 has 1 MA's), (15, 105636), (20, 105699),

Gene: Samisti12_213 Start: 108111, Stop: 108314, Start Num: 10

Candidate Starts for Samisti12_213:

(2, 108042), (3, 108063), (5, 108078), (7, 108099), (8, 108105), (Start: 10 @108111 has 7 MA's), (Start: 13 @108147 has 18 MA's), (Start: 14 @108165 has 1 MA's), (19, 108237), (20, 108261),

Gene: Sushi23_209 Start: 107175, Stop: 107324, Start Num: 14

Candidate Starts for Sushi23_209:

(2, 107052), (3, 107073), (5, 107088), (7, 107109), (8, 107115), (Start: 10 @107121 has 7 MA's), (Start: 13 @107157 has 18 MA's), (Start: 14 @107175 has 1 MA's), (18, 107241), (19, 107247), (20, 107271),

Gene: Deutsch_208 Start: 106940, Stop: 107143, Start Num: 9

Candidate Starts for Deutsch_208:

(Start: 9 @106940 has 5 MA's), (Start: 13 @106976 has 18 MA's), (Start: 14 @106994 has 1 MA's), (19, 107066), (20, 107090),

Gene: Warpy_212 Start: 106250, Stop: 106414, Start Num: 13

Candidate Starts for Warpy_212:

(3, 106160), (Start: 10 @106214 has 7 MA's), (Start: 13 @106250 has 18 MA's), (Start: 14 @106268 has 1 MA's), (15, 106298), (16, 106307), (20, 106361),

Gene: Watermoore_208 Start: 107463, Stop: 107666, Start Num: 10

Candidate Starts for Watermoore_208:

(2, 107394), (3, 107415), (5, 107430), (7, 107451), (8, 107457), (Start: 10 @107463 has 7 MA's),
(Start: 13 @107499 has 18 MA's), (Start: 14 @107517 has 1 MA's), (19, 107589), (20, 107613),