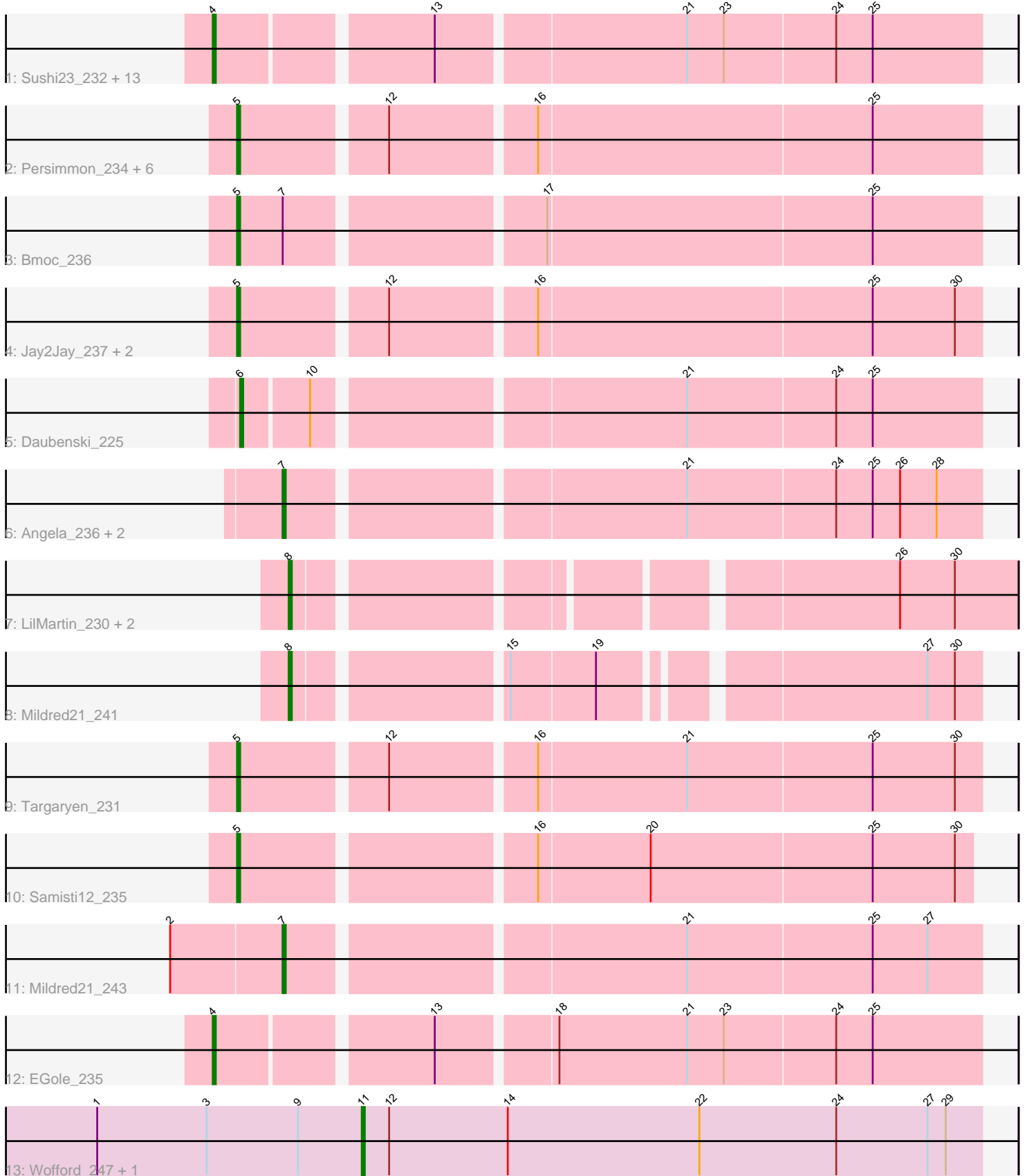


Pham 158012



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 158012 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158012 has 39 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Sushi23_232, Lululemon_231, HangryHippo_232, Leo04_231, Larnav_238, Tribute_227, Cursive_234, Watermoore_230, Peebs_228, Pepperwood_231, Teutsch_230, PacManQ_232, BlueOtter_232, Cross_230
- Track 2 : Persimmon_234, Braelyn_227, Liandry_231, PinkiePie_231, Squillium_234, NootNoot_228, Bartholomune_231
- Track 3 : Bmoc_236
- Track 4 : Jay2Jay_237, Evy_221, Warpy_234
- Track 5 : Daubenski_225
- Track 6 : Angela_236, LilMartin_232, MulchMansion_236
- Track 7 : LilMartin_230, Angela_234, MulchMansion_234
- Track 8 : Mildred21_241
- Track 9 : Targaryen_231
- Track 10 : Samisti12_235
- Track 11 : Mildred21_243
- Track 12 : EGole_235
- Track 13 : Wofford_247, Elmer_264

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 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bartholomune_231, Bmoc_236, Braelyn_227, Evy_221, Jay2Jay_237, Liandry_231, NootNoot_228, Persimmon_234, PinkiePie_231, Samisti12_235, Squillium_234, Targaryen_231, Warpy_234,

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

-

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

- Angela_234, Angela_236, BlueOtter_232, Cross_230, Cursive_234, Daubenski_225, EGole_235, Elmer_264, HangryHippo_232, Larnav_238, Leo04_231, LilMartin_230, LilMartin_232, Lululemon_231, Mildred21_241,

Mildred21_243, MulchMansion_234, MulchMansion_236, PacManQ_232, Peebs_228, Pepperwood_231, Sushi23_232, Teutsch_230, Tribute_227, Watermoore_230, Wofford_247,

Summary by start number:

Start 4:

- Found in 15 of 39 (38.5%) of genes in pham
- Manual Annotations of this start: 10 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueOtter_232 (BE1), Cross_230 (BE1), Cursive_234 (BE1), EGole_235 (BE1), HangryHippo_232 (BE1), Larnav_238 (BE1), Leo04_231 (BE1), Lululemon_231 (BE1), PacManQ_232 (BE1), Peebs_228 (BE1), Pepperwood_231 (BE1), Sushi23_232 (BE1), Teutsch_230 (BE1), Tribute_227 (BE1), Watermoore_230 (BE1),

Start 5:

- Found in 13 of 39 (33.3%) of genes in pham
- Manual Annotations of this start: 13 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bartholomune_231 (BE1), Bmoc_236 (BE1), Braelyn_227 (BE1), Evy_221 (BE1), Jay2Jay_237 (BE1), Liandry_231 (BE1), NootNoot_228 (BE1), Persimmon_234 (BE1), PinkiePie_231 (BE1), Samisti12_235 (BE1), Squillium_234 (BE1), Targaryen_231 (BE1), Warpy_234 (BE1),

Start 6:

- Found in 1 of 39 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daubenski_225 (BE1),

Start 7:

- Found in 5 of 39 (12.8%) of genes in pham
- Manual Annotations of this start: 4 of 33
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Angela_236 (BE1), LilMartin_232 (BE1), Mildred21_243 (BE1), MulchMansion_236 (BE1),

Start 8:

- Found in 4 of 39 (10.3%) of genes in pham
- Manual Annotations of this start: 4 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angela_234 (BE1), LilMartin_230 (BE1), Mildred21_241 (BE1), MulchMansion_234 (BE1),

Start 11:

- Found in 2 of 39 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elmer_264 (BE2), Wofford_247 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 4 was manually annotated 10 times for cluster BE1.
- Start number 5 was manually annotated 13 times for cluster BE1.
- Start number 6 was manually annotated 1 time for cluster BE1.
- Start number 7 was manually annotated 4 times for cluster BE1.
- Start number 8 was manually annotated 4 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 11 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Angela_236 Start: 115493, Stop: 115711, Start Num: 7

Candidate Starts for Angela_236:

(Start: 7 @115493 has 4 MA's), (21, 115616), (24, 115664), (25, 115676), (26, 115685), (28, 115697),

Gene: Angela_234 Start: 115083, Stop: 115298, Start Num: 8

Candidate Starts for Angela_234:

(Start: 8 @115083 has 4 MA's), (26, 115260), (30, 115278),

Gene: Bartholomune_231 Start: 114849, Stop: 115082, Start Num: 5

Candidate Starts for Bartholomune_231:

(Start: 5 @114849 has 13 MA's), (12, 114894), (16, 114939), (25, 115047),

Gene: BlueOtter_232 Start: 114987, Stop: 115226, Start Num: 4

Candidate Starts for BlueOtter_232:

(Start: 4 @114987 has 10 MA's), (13, 115053), (21, 115131), (23, 115143), (24, 115179), (25, 115191),

Gene: Bmoc_236 Start: 115531, Stop: 115764, Start Num: 5

Candidate Starts for Bmoc_236:

(Start: 5 @115531 has 13 MA's), (Start: 7 @115546 has 4 MA's), (17, 115624), (25, 115729),

Gene: Braelyn_227 Start: 114496, Stop: 114729, Start Num: 5

Candidate Starts for Braelyn_227:

(Start: 5 @114496 has 13 MA's), (12, 114541), (16, 114586), (25, 114694),

Gene: Cross_230 Start: 115632, Stop: 115871, Start Num: 4

Candidate Starts for Cross_230:

(Start: 4 @115632 has 10 MA's), (13, 115698), (21, 115776), (23, 115788), (24, 115824), (25, 115836),

Gene: Cursive_234 Start: 115739, Stop: 115978, Start Num: 4

Candidate Starts for Cursive_234:

(Start: 4 @115739 has 10 MA's), (13, 115805), (21, 115883), (23, 115895), (24, 115931), (25, 115943),

Gene: Daubenski_225 Start: 116112, Stop: 116342, Start Num: 6

Candidate Starts for Daubenski_225:

(Start: 6 @116112 has 1 MA's), (10, 116133), (21, 116247), (24, 116295), (25, 116307),

Gene: EGole_235 Start: 117823, Stop: 118062, Start Num: 4

Candidate Starts for EGole_235:

(Start: 4 @117823 has 10 MA's), (13, 117889), (18, 117925), (21, 117967), (23, 117979), (24, 118015), (25, 118027),

Gene: Elmer_264 Start: 118030, Stop: 118233, Start Num: 11

Candidate Starts for Elmer_264:

(1, 117943), (3, 117979), (9, 118009), (Start: 11 @118030 has 1 MA's), (12, 118039), (14, 118078), (22, 118141), (24, 118186), (27, 118216), (29, 118222),

Gene: Evy_221 Start: 115809, Stop: 116042, Start Num: 5

Candidate Starts for Evy_221:

(Start: 5 @115809 has 13 MA's), (12, 115854), (16, 115899), (25, 116007), (30, 116034),

Gene: HangryHippo_232 Start: 114987, Stop: 115226, Start Num: 4

Candidate Starts for HangryHippo_232:

(Start: 4 @114987 has 10 MA's), (13, 115053), (21, 115131), (23, 115143), (24, 115179), (25, 115191),

Gene: Jay2Jay_237 Start: 115964, Stop: 116197, Start Num: 5

Candidate Starts for Jay2Jay_237:

(Start: 5 @115964 has 13 MA's), (12, 116009), (16, 116054), (25, 116162), (30, 116189),

Gene: Larnav_238 Start: 115905, Stop: 116144, Start Num: 4

Candidate Starts for Larnav_238:

(Start: 4 @115905 has 10 MA's), (13, 115971), (21, 116049), (23, 116061), (24, 116097), (25, 116109),

Gene: Leo04_231 Start: 116013, Stop: 116252, Start Num: 4

Candidate Starts for Leo04_231:

(Start: 4 @116013 has 10 MA's), (13, 116079), (21, 116157), (23, 116169), (24, 116205), (25, 116217),

Gene: Liandry_231 Start: 115385, Stop: 115618, Start Num: 5

Candidate Starts for Liandry_231:

(Start: 5 @115385 has 13 MA's), (12, 115430), (16, 115475), (25, 115583),

Gene: LilMartin_230 Start: 114023, Stop: 114238, Start Num: 8

Candidate Starts for LilMartin_230:

(Start: 8 @114023 has 4 MA's), (26, 114200), (30, 114218),

Gene: LilMartin_232 Start: 114433, Stop: 114651, Start Num: 7

Candidate Starts for LilMartin_232:

(Start: 7 @114433 has 4 MA's), (21, 114556), (24, 114604), (25, 114616), (26, 114625), (28, 114637),

Gene: Lululemon_231 Start: 114792, Stop: 115031, Start Num: 4

Candidate Starts for Lululemon_231:

(Start: 4 @114792 has 10 MA's), (13, 114858), (21, 114936), (23, 114948), (24, 114984), (25, 114996),

Gene: Mildred21_241 Start: 114172, Stop: 114375, Start Num: 8

Candidate Starts for Mildred21_241:
(Start: 8 @114172 has 4 MA's), (15, 114235), (19, 114262), (27, 114358), (30, 114367),

Gene: Mildred21_243 Start: 114583, Stop: 114801, Start Num: 7
Candidate Starts for Mildred21_243:
(2, 114547), (Start: 7 @114583 has 4 MA's), (21, 114706), (25, 114766), (27, 114784),

Gene: MulchMansion_236 Start: 116067, Stop: 116285, Start Num: 7
Candidate Starts for MulchMansion_236:
(Start: 7 @116067 has 4 MA's), (21, 116190), (24, 116238), (25, 116250), (26, 116259), (28, 116271),

Gene: MulchMansion_234 Start: 115657, Stop: 115872, Start Num: 8
Candidate Starts for MulchMansion_234:
(Start: 8 @115657 has 4 MA's), (26, 115834), (30, 115852),

Gene: NootNoot_228 Start: 114230, Stop: 114463, Start Num: 5
Candidate Starts for NootNoot_228:
(Start: 5 @114230 has 13 MA's), (12, 114275), (16, 114320), (25, 114428),

Gene: PacManQ_232 Start: 114792, Stop: 115031, Start Num: 4
Candidate Starts for PacManQ_232:
(Start: 4 @114792 has 10 MA's), (13, 114858), (21, 114936), (23, 114948), (24, 114984), (25, 114996),

Gene: Peebs_228 Start: 115876, Stop: 116115, Start Num: 4
Candidate Starts for Peebs_228:
(Start: 4 @115876 has 10 MA's), (13, 115942), (21, 116020), (23, 116032), (24, 116068), (25, 116080),

Gene: Pepperwood_231 Start: 115684, Stop: 115923, Start Num: 4
Candidate Starts for Pepperwood_231:
(Start: 4 @115684 has 10 MA's), (13, 115750), (21, 115828), (23, 115840), (24, 115876), (25, 115888),

Gene: Persimmon_234 Start: 114718, Stop: 114951, Start Num: 5
Candidate Starts for Persimmon_234:
(Start: 5 @114718 has 13 MA's), (12, 114763), (16, 114808), (25, 114916),

Gene: PinkiePie_231 Start: 115385, Stop: 115618, Start Num: 5
Candidate Starts for PinkiePie_231:
(Start: 5 @115385 has 13 MA's), (12, 115430), (16, 115475), (25, 115583),

Gene: Samisti12_235 Start: 117277, Stop: 117507, Start Num: 5
Candidate Starts for Samisti12_235:
(Start: 5 @117277 has 13 MA's), (16, 117367), (20, 117403), (25, 117475), (30, 117502),

Gene: Squillium_234 Start: 115387, Stop: 115620, Start Num: 5
Candidate Starts for Squillium_234:
(Start: 5 @115387 has 13 MA's), (12, 115432), (16, 115477), (25, 115585),

Gene: Sushi23_232 Start: 116742, Stop: 116981, Start Num: 4
Candidate Starts for Sushi23_232:

(Start: 4 @116742 has 10 MA's), (13, 116808), (21, 116886), (23, 116898), (24, 116934), (25, 116946),

Gene: Targaryen_231 Start: 116917, Stop: 117150, Start Num: 5

Candidate Starts for Targaryen_231:

(Start: 5 @116917 has 13 MA's), (12, 116962), (16, 117007), (21, 117055), (25, 117115), (30, 117142),

Gene: Teutsch_230 Start: 116107, Stop: 116346, Start Num: 4

Candidate Starts for Teutsch_230:

(Start: 4 @116107 has 10 MA's), (13, 116173), (21, 116251), (23, 116263), (24, 116299), (25, 116311),

Gene: Tribute_227 Start: 116272, Stop: 116511, Start Num: 4

Candidate Starts for Tribute_227:

(Start: 4 @116272 has 10 MA's), (13, 116338), (21, 116416), (23, 116428), (24, 116464), (25, 116476),

Gene: Warpy_234 Start: 115402, Stop: 115635, Start Num: 5

Candidate Starts for Warpy_234:

(Start: 5 @115402 has 13 MA's), (12, 115447), (16, 115492), (25, 115600), (30, 115627),

Gene: Watermoore_230 Start: 116630, Stop: 116869, Start Num: 4

Candidate Starts for Watermoore_230:

(Start: 4 @116630 has 10 MA's), (13, 116696), (21, 116774), (23, 116786), (24, 116822), (25, 116834),

Gene: Wofford_247 Start: 117472, Stop: 117675, Start Num: 11

Candidate Starts for Wofford_247:

(1, 117385), (3, 117421), (9, 117451), (Start: 11 @117472 has 1 MA's), (12, 117481), (14, 117520), (22, 117583), (24, 117628), (27, 117658), (29, 117664),