Pham 347971


1: LilSaint_254
2: Eliot67_250 + 3
3: Daubenski_242 + 1
4: Mildred21_263
5: FreddyDRoo_249
6: Braelyn_245 + 4
7: Warpy_252
8: Bmoc_256
9: Shuckle_248
10: NootNoot_245
11: Riptide_255
12: Paradiddles_240
13: Marsus_257
14: Persimmon_251
15: Evy_238
16: Anedea_265
17: Sollertia_256

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 347971 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347971 has 25 members, 1 are drafts.

Phages represented in each track:
• Track 1 : LilSaint_254
• Track 2 : Eliot67_250, PinkiePie_249, Squillium_251, Liandry_248
• Track 3 : Daubenski_242, Cadmus_248
• Track 4 : Mildred21_263
• Track 5 : FreddyDRoo_249
• Track 6 : Braelyn_245, Bartholomune_249, WhereRU_249, Navo_242, Davielle_249
• Track 7 : Warpy_252
• Track 8 : Bmoc_256
• Track 9 : Shuckle_248
• Track 10 : NootNoot_245
• Track 11 : Riptide_255
• Track 12 : Paradiddles_240
• Track 13 : Marsus_257
• Track 14 : Persimmon_251
• Track 15 : Evy_238
• Track 16 : Anedea_265
• Track 17 : Sollertia_256

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

The start number called the most often in the published annotations is 7, it was called in 12 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bartholomune_249, Bmoc_256, Braelyn_245, Davielle_249, LilSaint_254, Navo_242, NootNoot_245, Paradiddles_240, Riptide_255, Shuckle_248, Sollertia_256, WhereRU_249,

Genes that have the "Most Annotated" start but do not call it:
• Anedea_265, Cadmus_248, Daubenski_242, Eliot67_250, Evy_238, FreddyDRoo_249, Liandry_248, Marsus_257, Mildred21_263, Persimmon_251, PinkiePie_249, Squillium_251, Warpy_252,

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

•

Summary by start number:

Start 7:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 12 of 24
• Called 48.0% of time when present
• Phage (with cluster) where this start called: Bartholomune_249 (BE1), Bmoc_256 (BE1), Braelyn_245 (BE1), Davielle_249 (BE1), LilSaint_254 (BE1), Navo_242 (BE1), NootNoot_245 (BE1), Paradiddles_240 (BE1), Riptide_255 (BE1), Shuckle_248 (BE1), Sollertia_256 (BE2), WhereRU_249 (BE1),

Start 11:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 24
• Called 36.0% of time when present
• Phage (with cluster) where this start called: Cadmus_248 (BE1), Daubenski_242 (BE1), Eliot67_250 (BE1), Evy_238 (BE1), Liandry_248 (BE1), Mildred21_263 (BE1), Persimmon_251 (BE1), PinkiePie_249 (BE1), Squillium_251 (BE1),

Start 14:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 16.0% of time when present
• Phage (with cluster) where this start called: Anedea_265 (BE1), FreddyDRoo_249 (BE1), Marsus_257 (BE1), Warpy_252 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:
•Start number 7 was manually annotated 11 times for cluster BE1.
•Start number 11 was manually annotated 8 times for cluster BE1.
•Start number 14 was manually annotated 4 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 7 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Anedea_265 Start: 122550, Stop: 122744, Start Num: 14
Candidate Starts for Anedea_265:
(3, 122475), (4, 122490), (Start: 7 @122514 has 12 MA's), (8, 122520), (9, 122523), (10, 122526), (Start: 11 @122532 has 8 MA's), (12, 122544), (Start: 14 @122550 has 4 MA's), (15, 122565), (17, 122622), (25, 122703),

Gene: Bartholomune_249 Start: 120501, Stop: 120677, Start Num: 7
Candidate Starts for Bartholomune_249:

(3, 120462), (4, 120477), (Start: 7 @120501 has 12 MA's), (9, 120510), (10, 120513), (Start: 11 @120519 has 8 MA's), (12, 120531), (Start: 14 @120537 has 4 MA's), (20, 120633),

Gene: Bmoc_256 Start: 121294, Stop: 121539, Start Num: 7
Candidate Starts for Bmoc_256:
(6, 121285), (Start: 7 @121294 has 12 MA's), (8, 121300), (10, 121306), (Start: 11 @121312 has 8 MA's), (12, 121324), (Start: 14 @121330 has 4 MA's), (15, 121345), (17, 121402), (19, 121438), (24, 121474),

Gene: Braelyn_245 Start: 119835, Stop: 120011, Start Num: 7
Candidate Starts for Braelyn_245:
(3, 119796), (4, 119811), (Start: 7 @119835 has 12 MA's), (9, 119844), (10, 119847), (Start: 11 @119853 has 8 MA's), (12, 119865), (Start: 14 @119871 has 4 MA's), (20, 119967),

Gene: Cadmus_248 Start: 121931, Stop: 122080, Start Num: 11
Candidate Starts for Cadmus_248:
(3, 121874), (6, 121904), (Start: 7 @121913 has 12 MA's), (8, 121919), (10, 121925), (Start: 11 @121931 has 8 MA's), (12, 121943), (13, 121946), (Start: 14 @121949 has 4 MA's), (19, 122042),

Gene: Daubenski_242 Start: 121832, Stop: 121981, Start Num: 11
Candidate Starts for Daubenski_242:
(3, 121775), (6, 121805), (Start: 7 @121814 has 12 MA's), (8, 121820), (10, 121826), (Start: 11 @121832 has 8 MA's), (12, 121844), (13, 121847), (Start: 14 @121850 has 4 MA's), (19, 121943),

Gene: Davielle_249 Start: 120585, Stop: 120761, Start Num: 7
Candidate Starts for Davielle_249:
(3, 120546), (4, 120561), (Start: 7 @120585 has 12 MA's), (9, 120594), (10, 120597), (Start: 11 @120603 has 8 MA's), (12, 120615), (Start: 14 @120621 has 4 MA's), (20, 120717),

Gene: Eliot67_250 Start: 120233, Stop: 120391, Start Num: 11
Candidate Starts for Eliot67_250:
(6, 120206), (Start: 7 @120215 has 12 MA's), (8, 120221), (10, 120227), (Start: 11 @120233 has 8 MA's), (12, 120245), (Start: 14 @120251 has 4 MA's), (19, 120344),

Gene: Evy_238 Start: 121200, Stop: 121343, Start Num: 11
Candidate Starts for Evy_238:
(3, 121143), (6, 121173), (Start: 7 @121182 has 12 MA's), (9, 121191), (10, 121194), (Start: 11 @121200 has 8 MA's), (12, 121212), (Start: 14 @121218 has 4 MA's), (22, 121317),

Gene: FreddyDRoo_249 Start: 120251, Stop: 120391, Start Num: 14
Candidate Starts for FreddyDRoo_249:
(6, 120206), (Start: 7 @120215 has 12 MA's), (8, 120221), (10, 120227), (Start: 11 @120233 has 8 MA's), (12, 120245), (Start: 14 @120251 has 4 MA's), (19, 120344),

Gene: Liandry_248 Start: 120940, Stop: 121098, Start Num: 11
Candidate Starts for Liandry_248:
(6, 120913), (Start: 7 @120922 has 12 MA's), (8, 120928), (10, 120934), (Start: 11 @120940 has 8 MA's), (12, 120952), (Start: 14 @120958 has 4 MA's), (19, 121051),

Gene: LilSaint_254 Start: 121316, Stop: 121534, Start Num: 7
Candidate Starts for LilSaint_254:
(3, 121277), (4, 121292), (Start: 7 @121316 has 12 MA's), (8, 121322), (9, 121325), (10, 121328), (Start: 11 @121334 has 8 MA's), (12, 121346), (Start: 14 @121352 has 4 MA's), (15, 121367), (17,

121424), (23, 121475), (25, 121505),

Gene: Marsus_257 Start: 123175, Stop: 123306, Start Num: 14
Candidate Starts for Marsus_257:
(2, 123082), (3, 123100), (4, 123115), (5, 123127), (Start: 7 @123139 has 12 MA's), (8, 123145), (Start: 11 @123157 has 8 MA's), (Start: 14 @123175 has 4 MA's), (15, 123190), (16, 123196),

Gene: Mildred21_263 Start: 120638, Stop: 120769, Start Num: 11
Candidate Starts for Mildred21_263:
(2, 120563), (3, 120581), (4, 120596), (5, 120608), (Start: 7 @120620 has 12 MA's), (8, 120626), (Start: 11 @120638 has 8 MA's), (Start: 14 @120656 has 4 MA's), (16, 120677), (18, 120728),

Gene: Navo_242 Start: 119039, Stop: 119215, Start Num: 7
Candidate Starts for Navo_242:
(3, 119000), (4, 119015), (Start: 7 @119039 has 12 MA's), (9, 119048), (10, 119051), (Start: 11 @119057 has 8 MA's), (12, 119069), (Start: 14 @119075 has 4 MA's), (20, 119171),

Gene: NootNoot_245 Start: 119734, Stop: 119910, Start Num: 7
Candidate Starts for NootNoot_245:
(3, 119695), (6, 119725), (Start: 7 @119734 has 12 MA's), (8, 119740), (10, 119746), (Start: 11 @119752 has 8 MA's), (12, 119764), (Start: 14 @119770 has 4 MA's), (20, 119866),

Gene: Paradiddles_240 Start: 122109, Stop: 122285, Start Num: 7
Candidate Starts for Paradiddles_240:
(6, 122100), (Start: 7 @122109 has 12 MA's), (8, 122115), (10, 122121), (Start: 11 @122127 has 8 MA's), (12, 122139), (Start: 14 @122145 has 4 MA's), (19, 122238),

Gene: Persimmon_251 Start: 120254, Stop: 120412, Start Num: 11
Candidate Starts for Persimmon_251:
(6, 120227), (Start: 7 @120236 has 12 MA's), (8, 120242), (10, 120248), (Start: 11 @120254 has 8 MA's), (12, 120266), (Start: 14 @120272 has 4 MA's),

Gene: PinkiePie_249 Start: 120940, Stop: 121098, Start Num: 11
Candidate Starts for PinkiePie_249:
(6, 120913), (Start: 7 @120922 has 12 MA's), (8, 120928), (10, 120934), (Start: 11 @120940 has 8 MA's), (12, 120952), (Start: 14 @120958 has 4 MA's), (19, 121051),

Gene: Riptide_255 Start: 120918, Stop: 121136, Start Num: 7
Candidate Starts for Riptide_255:
(3, 120879), (4, 120894), (Start: 7 @120918 has 12 MA's), (8, 120924), (9, 120927), (10, 120930), (Start: 11 @120936 has 8 MA's), (12, 120948), (Start: 14 @120954 has 4 MA's), (15, 120969), (17, 121026), (20, 121065), (25, 121107), (26, 121125),

Gene: Shuckle_248 Start: 122102, Stop: 122263, Start Num: 7
Candidate Starts for Shuckle_248:
(3, 122063), (4, 122078), (Start: 7 @122102 has 12 MA's), (9, 122111), (10, 122114), (Start: 11 @122120 has 8 MA's), (12, 122132), (Start: 14 @122138 has 4 MA's), (21, 122240),

Gene: Sollertia_256 Start: 118330, Stop: 118482, Start Num: 7
Candidate Starts for Sollertia_256:
(1, 118213), (6, 118321), (Start: 7 @118330 has 12 MA's), (8, 118336), (Start: 11 @118348 has 8 MA's), (12, 118360), (Start: 14 @118366 has 4 MA's), (15, 118381),

Gene: Squillium_251 Start: 120942, Stop: 121115, Start Num: 11
Candidate Starts for Squillium_251:
(6, 120915), (Start: 7 @120924 has 12 MA's), (8, 120930), (10, 120936), (Start: 11 @120942 has 8 MA's), (12, 120954), (Start: 14 @120960 has 4 MA's), (19, 121053),

Gene: Warpy_252 Start: 121027, Stop: 121152, Start Num: 14
Candidate Starts for Warpy_252:
(3, 120952), (6, 120982), (Start: 7 @120991 has 12 MA's), (9, 121000), (10, 121003), (Start: 11 @121009 has 8 MA's), (12, 121021), (Start: 14 @121027 has 4 MA's), (22, 121126),

Gene: WhereRU_249 Start: 120570, Stop: 120746, Start Num: 7
Candidate Starts for WhereRU_249:
(3, 120531), (4, 120546), (Start: 7 @120570 has 12 MA's), (9, 120579), (10, 120582), (Start: 11 @120588 has 8 MA's), (12, 120600), (Start: 14 @120606 has 4 MA's), (20, 120702),