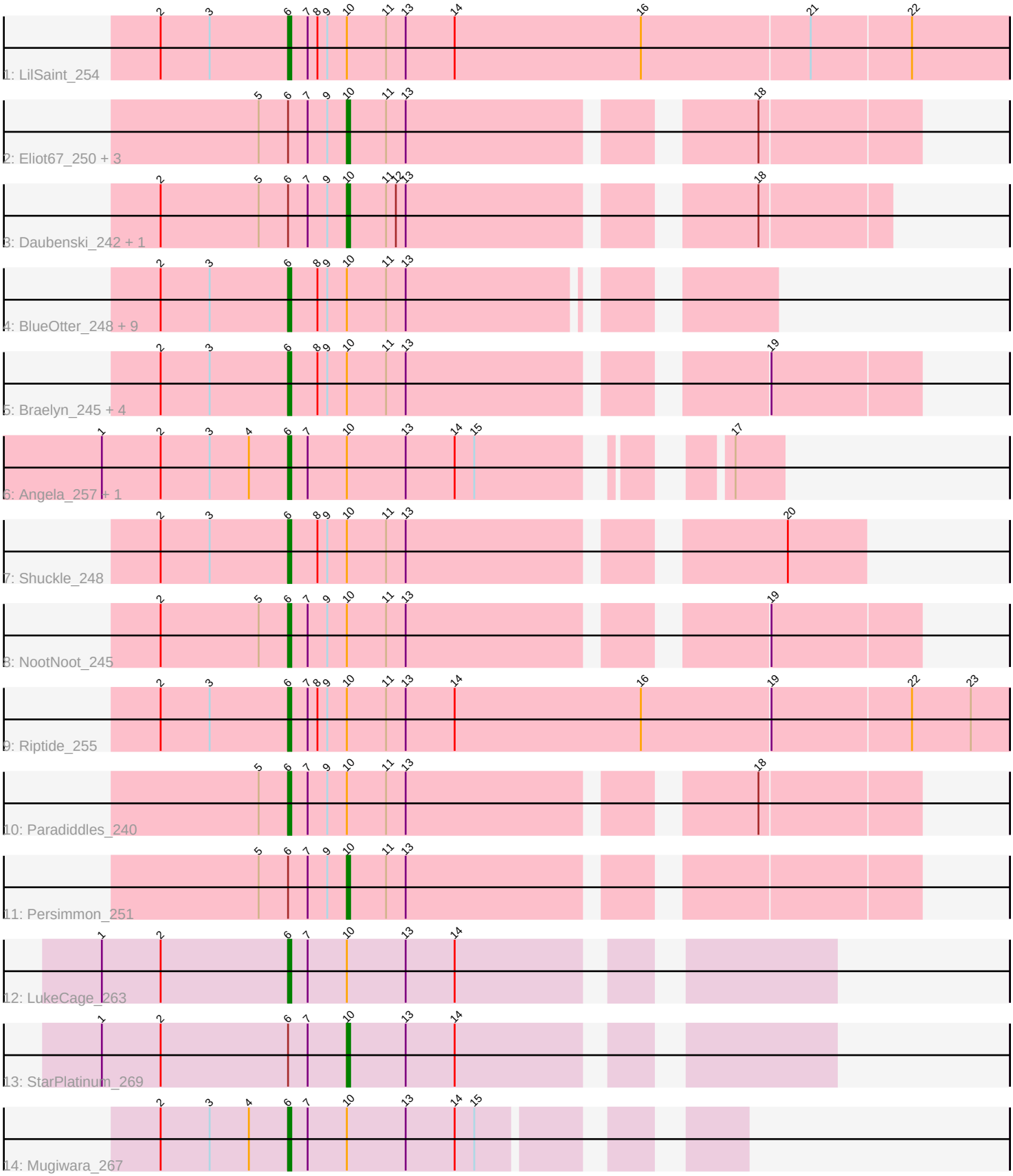
Pham 331087


1: LilSaint_254
2: Eliot67_250 + 3
3: Daubenski_242 + 1
4: BlueOtter_248 + 9
5: Braelyn_245 + 4
6: Angela_257 + 1
7: Shuckle_248
8: NootNoot_245
9: Riptide_255
10: Paradiddles_240
11: Persimmon_251
12: LukeCage_263
13: StarPlatinum_269
14: Mugiwara_267

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 331087 Report

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

Pham number 331087 has 32 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 : BlueOtter_248, PacManQ_247, Pepperwood_249, Tribute_245, Scheme_253, Cross_248, HangryHippo_248, Samisti12_251, Lululemon_247, Larnav_250
• Track 5 : Braelyn_245, Bartholomune_249, WhereRU_249, Navo_242, Davielle_249
• Track 6 : Angela_257, MulchMansion_256
• Track 7 : Shuckle_248
• Track 8 : NootNoot_245
• Track 9 : Riptide_255
• Track 10 : Paradiddles_240
• Track 11 : Persimmon_251
• Track 12 : LukeCage_263
• Track 13 : StarPlatinum_269
• Track 14 : Mugiwara_267

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

The start number called the most often in the published annotations is 6, it was called in 24 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Angela_257, Bartholomune_249, BlueOtter_248, Braelyn_245, Cross_248, Davielle_249, HangryHippo_248, Larnav_250, LilSaint_254, LukeCage_263, Lululemon_247, Mugiwara_267, MulchMansion_256, Navo_242, NootNoot_245, PacManQ_247, Paradiddles_240, Pepperwood_249, Riptide_255, Samisti12_251, Scheme_253, Shuckle_248, Tribute_245, WhereRU_249,

Genes that have the "Most Annotated" start but do not call it:
• Cadmus_248, Daubenski_242, Eliot67_250, Liandry_248, Persimmon_251, PinkiePie_249, Squillium_251, StarPlatinum_269,

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

•

Summary by start number:

Start 6:
• Found in 32 of 32 (100.0%) of genes in pham
• Manual Annotations of this start: 24 of 31
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Angela_257 (BE1), Bartholomune_249 (BE1), BlueOtter_248 (BE1), Braelyn_245 (BE1), Cross_248 (BE1), Davielle_249 (BE1), HangryHippo_248 (BE1), Larnav_250 (BE1), LilSaint_254 (BE1), LukeCage_263 (BE2), Lululemon_247 (BE1), Mugiwara_267 (BE2), MulchMansion_256 (BE1), Navo_242 (BE1), NootNoot_245 (BE1), PacManQ_247 (BE1), Paradiddles_240 (BE1), Pepperwood_249 (BE1), Riptide_255 (BE1), Samisti12_251 (BE1), Scheme_253 (BE1), Shuckle_248 (BE1), Tribute_245 (BE1), WhereRU_249 (BE1),

Start 10:
• Found in 32 of 32 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 31
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Cadmus_248 (BE1), Daubenski_242 (BE1), Eliot67_250 (BE1), Liandry_248 (BE1), Persimmon_251 (BE1), PinkiePie_249 (BE1), Squillium_251 (BE1), StarPlatinum_269 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE1:
•Start number 6 was manually annotated 22 times for cluster BE1.
•Start number 10 was manually annotated 6 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 6 was manually annotated 2 times for cluster BE2.
•Start number 10 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Angela_257 Start: 121854, Stop: 121982, Start Num: 6
Candidate Starts for Angela_257:
(1, 121797), (2, 121815), (3, 121830), (4, 121842), (Start: 6 @121854 has 24 MA's), (7, 121860), (Start: 10 @121872 has 7 MA's), (13, 121890), (14, 121905), (15, 121911), (17, 121968),

Gene: Bartholomune_249 Start: 120501, Stop: 120677, Start Num: 6
Candidate Starts for Bartholomune_249:
(2, 120462), (3, 120477), (Start: 6 @120501 has 24 MA's), (8, 120510), (9, 120513), (Start: 10 @120519 has 7 MA's), (11, 120531), (13, 120537), (19, 120633),

Gene: BlueOtter_248 Start: 120523, Stop: 120654, Start Num: 6
Candidate Starts for BlueOtter_248:

(2, 120484), (3, 120499), (Start: 6 @120523 has 24 MA's), (8, 120532), (9, 120535), (Start: 10 @120541 has 7 MA's), (11, 120553), (13, 120559),

Gene: Braelyn_245 Start: 119835, Stop: 120011, Start Num: 6
Candidate Starts for Braelyn_245:
(2, 119796), (3, 119811), (Start: 6 @119835 has 24 MA's), (8, 119844), (9, 119847), (Start: 10 @119853 has 7 MA's), (11, 119865), (13, 119871), (19, 119967),

Gene: Cadmus_248 Start: 121931, Stop: 122080, Start Num: 10
Candidate Starts for Cadmus_248:
(2, 121874), (5, 121904), (Start: 6 @121913 has 24 MA's), (7, 121919), (9, 121925), (Start: 10 @121931 has 7 MA's), (11, 121943), (12, 121946), (13, 121949), (18, 122042),

Gene: Cross_248 Start: 121168, Stop: 121299, Start Num: 6
Candidate Starts for Cross_248:
(2, 121129), (3, 121144), (Start: 6 @121168 has 24 MA's), (8, 121177), (9, 121180), (Start: 10 @121186 has 7 MA's), (11, 121198), (13, 121204),

Gene: Daubenski_242 Start: 121832, Stop: 121981, Start Num: 10
Candidate Starts for Daubenski_242:
(2, 121775), (5, 121805), (Start: 6 @121814 has 24 MA's), (7, 121820), (9, 121826), (Start: 10 @121832 has 7 MA's), (11, 121844), (12, 121847), (13, 121850), (18, 121943),

Gene: Davielle_249 Start: 120585, Stop: 120761, Start Num: 6
Candidate Starts for Davielle_249:
(2, 120546), (3, 120561), (Start: 6 @120585 has 24 MA's), (8, 120594), (9, 120597), (Start: 10 @120603 has 7 MA's), (11, 120615), (13, 120621), (19, 120717),

Gene: Eliot67_250 Start: 120233, Stop: 120391, Start Num: 10
Candidate Starts for Eliot67_250:
(5, 120206), (Start: 6 @120215 has 24 MA's), (7, 120221), (9, 120227), (Start: 10 @120233 has 7 MA's), (11, 120245), (13, 120251), (18, 120344),

Gene: HangryHippo_248 Start: 120523, Stop: 120654, Start Num: 6
Candidate Starts for HangryHippo_248:
(2, 120484), (3, 120499), (Start: 6 @120523 has 24 MA's), (8, 120532), (9, 120535), (Start: 10 @120541 has 7 MA's), (11, 120553), (13, 120559),

Gene: Larnav_250 Start: 121441, Stop: 121572, Start Num: 6
Candidate Starts for Larnav_250:
(2, 121402), (3, 121417), (Start: 6 @121441 has 24 MA's), (8, 121450), (9, 121453), (Start: 10 @121459 has 7 MA's), (11, 121471), (13, 121477),

Gene: Liandry_248 Start: 120940, Stop: 121098, Start Num: 10
Candidate Starts for Liandry_248:
(5, 120913), (Start: 6 @120922 has 24 MA's), (7, 120928), (9, 120934), (Start: 10 @120940 has 7 MA's), (11, 120952), (13, 120958), (18, 121051),

Gene: LilSaint_254 Start: 121316, Stop: 121534, Start Num: 6
Candidate Starts for LilSaint_254:
(2, 121277), (3, 121292), (Start: 6 @121316 has 24 MA's), (7, 121322), (8, 121325), (9, 121328), (Start: 10 @121334 has 7 MA's), (11, 121346), (13, 121352), (14, 121367), (16, 121424), (21, 121475), (22, 121505),

Gene: LukeCage_263 Start: 120379, Stop: 120528, Start Num: 6
Candidate Starts for LukeCage_263:
(1, 120322), (2, 120340), (Start: 6 @120379 has 24 MA's), (7, 120385), (Start: 10 @120397 has 7 MA's), (13, 120415), (14, 120430),

Gene: Lululemon_247 Start: 120328, Stop: 120459, Start Num: 6
Candidate Starts for Lululemon_247:
(2, 120289), (3, 120304), (Start: 6 @120328 has 24 MA's), (8, 120337), (9, 120340), (Start: 10 @120346 has 7 MA's), (11, 120358), (13, 120364),

Gene: Mugiwara_267 Start: 120861, Stop: 120980, Start Num: 6
Candidate Starts for Mugiwara_267:
(2, 120822), (3, 120837), (4, 120849), (Start: 6 @120861 has 24 MA's), (7, 120867), (Start: 10 @120879 has 7 MA's), (13, 120897), (14, 120912), (15, 120918),

Gene: MulchMansion_256 Start: 122428, Stop: 122556, Start Num: 6
Candidate Starts for MulchMansion_256:
(1, 122371), (2, 122389), (3, 122404), (4, 122416), (Start: 6 @122428 has 24 MA's), (7, 122434), (Start: 10 @122446 has 7 MA's), (13, 122464), (14, 122479), (15, 122485), (17, 122542),

Gene: Navo_242 Start: 119039, Stop: 119215, Start Num: 6
Candidate Starts for Navo_242:
(2, 119000), (3, 119015), (Start: 6 @119039 has 24 MA's), (8, 119048), (9, 119051), (Start: 10 @119057 has 7 MA's), (11, 119069), (13, 119075), (19, 119171),

Gene: NootNoot_245 Start: 119734, Stop: 119910, Start Num: 6
Candidate Starts for NootNoot_245:
(2, 119695), (5, 119725), (Start: 6 @119734 has 24 MA's), (7, 119740), (9, 119746), (Start: 10 @119752 has 7 MA's), (11, 119764), (13, 119770), (19, 119866),

Gene: PacManQ_247 Start: 120328, Stop: 120459, Start Num: 6
Candidate Starts for PacManQ_247:
(2, 120289), (3, 120304), (Start: 6 @120328 has 24 MA's), (8, 120337), (9, 120340), (Start: 10 @120346 has 7 MA's), (11, 120358), (13, 120364),

Gene: Paradiddles_240 Start: 122109, Stop: 122285, Start Num: 6
Candidate Starts for Paradiddles_240:
(5, 122100), (Start: 6 @122109 has 24 MA's), (7, 122115), (9, 122121), (Start: 10 @122127 has 7 MA's), (11, 122139), (13, 122145), (18, 122238),

Gene: Pepperwood_249 Start: 121220, Stop: 121351, Start Num: 6
Candidate Starts for Pepperwood_249:
(2, 121181), (3, 121196), (Start: 6 @121220 has 24 MA's), (8, 121229), (9, 121232), (Start: 10 @121238 has 7 MA's), (11, 121250), (13, 121256),

Gene: Persimmon_251 Start: 120254, Stop: 120412, Start Num: 10
Candidate Starts for Persimmon_251:
(5, 120227), (Start: 6 @120236 has 24 MA's), (7, 120242), (9, 120248), (Start: 10 @120254 has 7 MA's), (11, 120266), (13, 120272),

Gene: PinkiePie_249 Start: 120940, Stop: 121098, Start Num: 10
Candidate Starts for PinkiePie_249:

(5, 120913), (Start: 6 @120922 has 24 MA's), (7, 120928), (9, 120934), (Start: 10 @120940 has 7 MA's), (11, 120952), (13, 120958), (18, 121051),

Gene: Riptide_255 Start: 120918, Stop: 121136, Start Num: 6
Candidate Starts for Riptide_255:
(2, 120879), (3, 120894), (Start: 6 @120918 has 24 MA's), (7, 120924), (8, 120927), (9, 120930), (Start: 10 @120936 has 7 MA's), (11, 120948), (13, 120954), (14, 120969), (16, 121026), (19, 121065), (22, 121107), (23, 121125),

Gene: Samisti12_251 Start: 122477, Stop: 122611, Start Num: 6
Candidate Starts for Samisti12_251:
(2, 122438), (3, 122453), (Start: 6 @122477 has 24 MA's), (8, 122486), (9, 122489), (Start: 10 @122495 has 7 MA's), (11, 122507), (13, 122513),

Gene: Scheme_253 Start: 122629, Stop: 122763, Start Num: 6
Candidate Starts for Scheme_253:
(2, 122590), (3, 122605), (Start: 6 @122629 has 24 MA's), (8, 122638), (9, 122641), (Start: 10 @122647 has 7 MA's), (11, 122659), (13, 122665),

Gene: Shuckle_248 Start: 122102, Stop: 122263, Start Num: 6
Candidate Starts for Shuckle_248:
(2, 122063), (3, 122078), (Start: 6 @122102 has 24 MA's), (8, 122111), (9, 122114), (Start: 10 @122120 has 7 MA's), (11, 122132), (13, 122138), (20, 122240),

Gene: Squillium_251 Start: 120942, Stop: 121115, Start Num: 10
Candidate Starts for Squillium_251:
(5, 120915), (Start: 6 @120924 has 24 MA's), (7, 120930), (9, 120936), (Start: 10 @120942 has 7 MA's), (11, 120954), (13, 120960), (18, 121053),

Gene: StarPlatinum_269 Start: 121173, Stop: 121304, Start Num: 10
Candidate Starts for StarPlatinum_269:
(1, 121098), (2, 121116), (Start: 6 @121155 has 24 MA's), (7, 121161), (Start: 10 @121173 has 7 MA's), (13, 121191), (14, 121206),

Gene: Tribute_245 Start: 121978, Stop: 122112, Start Num: 6
Candidate Starts for Tribute_245:
(2, 121939), (3, 121954), (Start: 6 @121978 has 24 MA's), (8, 121987), (9, 121990), (Start: 10 @121996 has 7 MA's), (11, 122008), (13, 122014),

Gene: WhereRU_249 Start: 120570, Stop: 120746, Start Num: 6
Candidate Starts for WhereRU_249:
(2, 120531), (3, 120546), (Start: 6 @120570 has 24 MA's), (8, 120579), (9, 120582), (Start: 10 @120588 has 7 MA's), (11, 120600), (13, 120606), (19, 120702),