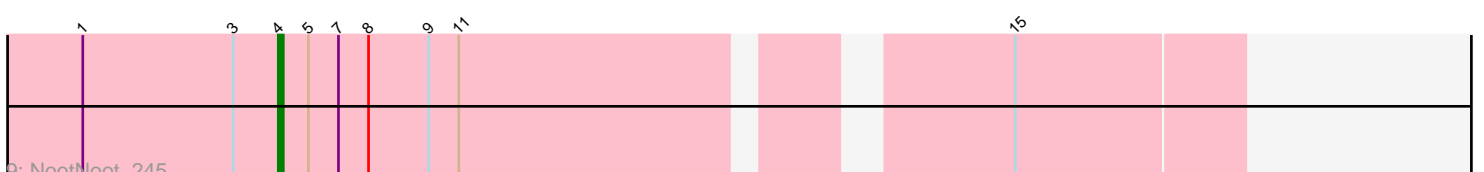
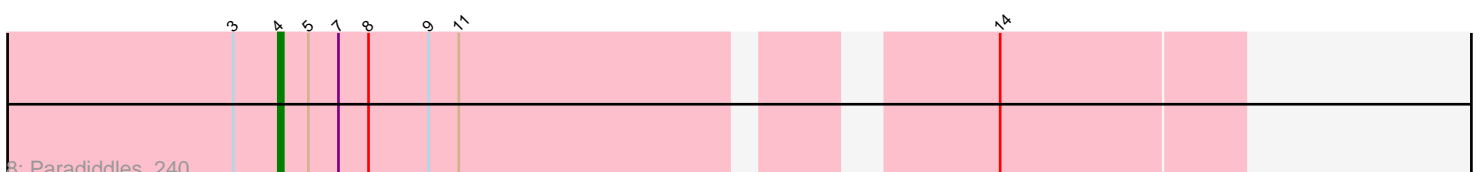
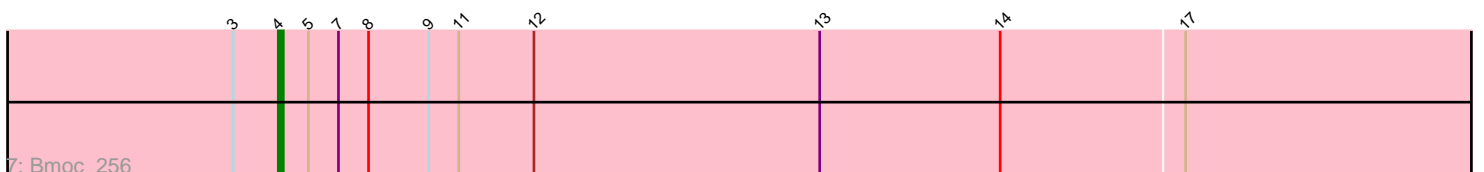
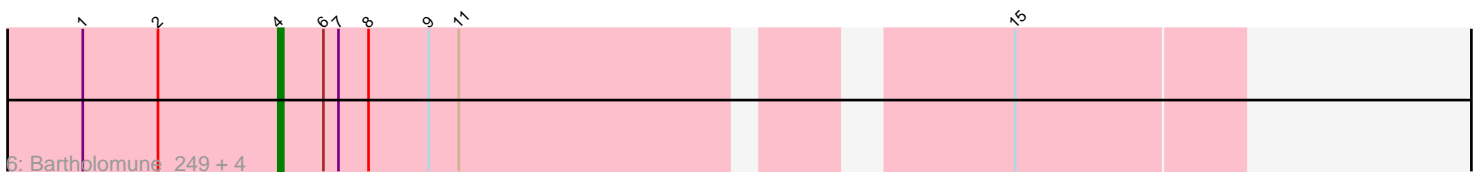
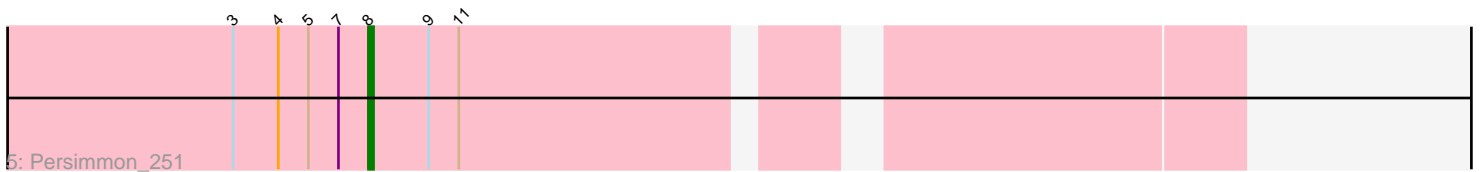
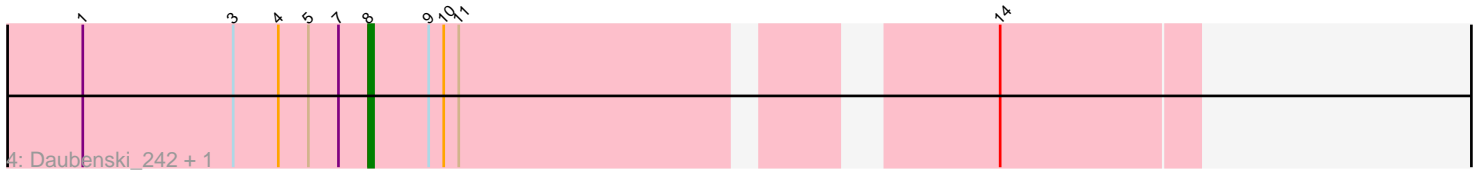
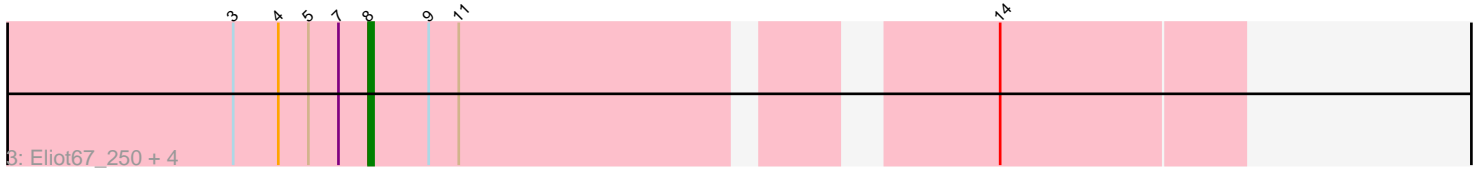
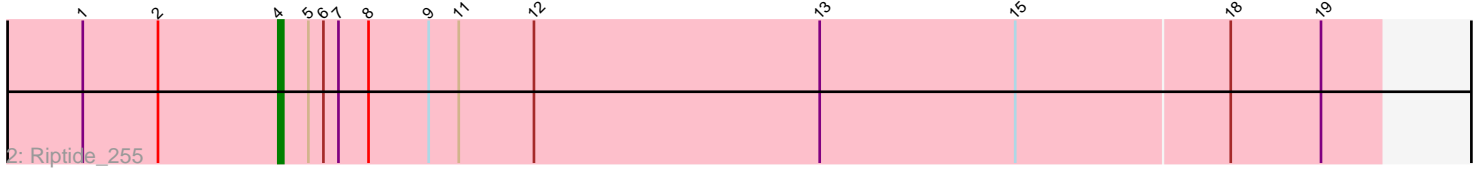
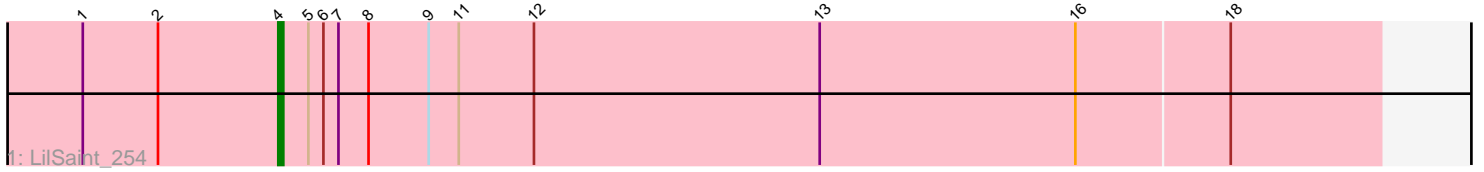


Pham 295152



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 295152 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295152 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : LilSaint_254
- Track 2 : Riptide_255
- Track 3 : Eliot67_250, PinkiePie_249, Squillium_251, FreddyDRoo_252, Liandry_248
- Track 4 : Daubenski_242, Cadmus_248
- Track 5 : Persimmon_251
- Track 6 : Bartholomune_249, WhereRU_249, Davielle_249, Braelyn_245, Navo_242
- Track 7 : Bmoc_256
- Track 8 : Paradiddles_240
- Track 9 : NootNoot_245

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 16 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, WhereRU_249,

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

- Cadmus_248, Daubenski_242, Eliot67_250, FreddyDRoo_252, Liandry_248, Persimmon_251, PinkiePie_249, Squillium_251,

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

-

Summary by start number:

Start 4:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 10 of 16
- Called 55.6% 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), WhereRU_249 (BE1),

Start 8:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 16
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Cadmus_248 (BE1), Daubenski_242 (BE1), Eliot67_250 (BE1), FreddyDRoo_252 (BE1), Liandry_248 (BE1), Persimmon_251 (BE1), PinkiePie_249 (BE1), Squillium_251 (BE1),

Summary by clusters:

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:

- Start number 4 was manually annotated 10 times for cluster BE1.
- Start number 8 was manually annotated 6 times for cluster BE1.

Gene Information:

Gene: Bartholomune_249 Start: 120501, Stop: 120677, Start Num: 4

Candidate Starts for Bartholomune_249:

(1, 120462), (2, 120477), (Start: 4 @120501 has 10 MA's), (6, 120510), (7, 120513), (Start: 8 @120519 has 6 MA's), (9, 120531), (11, 120537), (15, 120633),

Gene: Bmoc_256 Start: 121294, Stop: 121539, Start Num: 4

Candidate Starts for Bmoc_256:

(3, 121285), (Start: 4 @121294 has 10 MA's), (5, 121300), (7, 121306), (Start: 8 @121312 has 6 MA's), (9, 121324), (11, 121330), (12, 121345), (13, 121402), (14, 121438), (17, 121474),

Gene: Braelyn_245 Start: 119835, Stop: 120011, Start Num: 4

Candidate Starts for Braelyn_245:

(1, 119796), (2, 119811), (Start: 4 @119835 has 10 MA's), (6, 119844), (7, 119847), (Start: 8 @119853 has 6 MA's), (9, 119865), (11, 119871), (15, 119967),

Gene: Cadmus_248 Start: 121931, Stop: 122080, Start Num: 8

Candidate Starts for Cadmus_248:

(1, 121874), (3, 121904), (Start: 4 @121913 has 10 MA's), (5, 121919), (7, 121925), (Start: 8 @121931 has 6 MA's), (9, 121943), (10, 121946), (11, 121949), (14, 122042),

Gene: Daubenski_242 Start: 121832, Stop: 121981, Start Num: 8

Candidate Starts for Daubenski_242:

(1, 121775), (3, 121805), (Start: 4 @121814 has 10 MA's), (5, 121820), (7, 121826), (Start: 8 @121832 has 6 MA's), (9, 121844), (10, 121847), (11, 121850), (14, 121943),

Gene: Davielle_249 Start: 120585, Stop: 120761, Start Num: 4

Candidate Starts for Davielle_249:

(1, 120546), (2, 120561), (Start: 4 @120585 has 10 MA's), (6, 120594), (7, 120597), (Start: 8 @120603 has 6 MA's), (9, 120615), (11, 120621), (15, 120717),

Gene: Eliot67_250 Start: 120233, Stop: 120391, Start Num: 8

Candidate Starts for Eliot67_250:

(3, 120206), (Start: 4 @120215 has 10 MA's), (5, 120221), (7, 120227), (Start: 8 @120233 has 6 MA's), (9, 120245), (11, 120251), (14, 120344),

Gene: FreddyDRoo_252 Start: 120233, Stop: 120391, Start Num: 8

Candidate Starts for FreddyDRoo_252:

(3, 120206), (Start: 4 @120215 has 10 MA's), (5, 120221), (7, 120227), (Start: 8 @120233 has 6 MA's), (9, 120245), (11, 120251), (14, 120344),

Gene: Liandry_248 Start: 120940, Stop: 121098, Start Num: 8

Candidate Starts for Liandry_248:

(3, 120913), (Start: 4 @120922 has 10 MA's), (5, 120928), (7, 120934), (Start: 8 @120940 has 6 MA's), (9, 120952), (11, 120958), (14, 121051),

Gene: LilSaint_254 Start: 121316, Stop: 121534, Start Num: 4

Candidate Starts for LilSaint_254:

(1, 121277), (2, 121292), (Start: 4 @121316 has 10 MA's), (5, 121322), (6, 121325), (7, 121328), (Start: 8 @121334 has 6 MA's), (9, 121346), (11, 121352), (12, 121367), (13, 121424), (16, 121475), (18, 121505),

Gene: Navo_242 Start: 119039, Stop: 119215, Start Num: 4

Candidate Starts for Navo_242:

(1, 119000), (2, 119015), (Start: 4 @119039 has 10 MA's), (6, 119048), (7, 119051), (Start: 8 @119057 has 6 MA's), (9, 119069), (11, 119075), (15, 119171),

Gene: NootNoot_245 Start: 119734, Stop: 119910, Start Num: 4

Candidate Starts for NootNoot_245:

(1, 119695), (3, 119725), (Start: 4 @119734 has 10 MA's), (5, 119740), (7, 119746), (Start: 8 @119752 has 6 MA's), (9, 119764), (11, 119770), (15, 119866),

Gene: Paradiddles_240 Start: 122109, Stop: 122285, Start Num: 4

Candidate Starts for Paradiddles_240:

(3, 122100), (Start: 4 @122109 has 10 MA's), (5, 122115), (7, 122121), (Start: 8 @122127 has 6 MA's), (9, 122139), (11, 122145), (14, 122238),

Gene: Persimmon_251 Start: 120254, Stop: 120412, Start Num: 8

Candidate Starts for Persimmon_251:

(3, 120227), (Start: 4 @120236 has 10 MA's), (5, 120242), (7, 120248), (Start: 8 @120254 has 6 MA's), (9, 120266), (11, 120272),

Gene: PinkiePie_249 Start: 120940, Stop: 121098, Start Num: 8

Candidate Starts for PinkiePie_249:

(3, 120913), (Start: 4 @120922 has 10 MA's), (5, 120928), (7, 120934), (Start: 8 @120940 has 6 MA's), (9, 120952), (11, 120958), (14, 121051),

Gene: Riptide_255 Start: 120918, Stop: 121136, Start Num: 4

Candidate Starts for Riptide_255:

(1, 120879), (2, 120894), (Start: 4 @120918 has 10 MA's), (5, 120924), (6, 120927), (7, 120930), (Start: 8 @120936 has 6 MA's), (9, 120948), (11, 120954), (12, 120969), (13, 121026), (15, 121065),

(18, 121107), (19, 121125),

Gene: Squillium_251 Start: 120942, Stop: 121115, Start Num: 8

Candidate Starts for Squillium_251:

(3, 120915), (Start: 4 @120924 has 10 MA's), (5, 120930), (7, 120936), (Start: 8 @120942 has 6 MA's), (9, 120954), (11, 120960), (14, 121053),

Gene: WhereRU_249 Start: 120570, Stop: 120746, Start Num: 4

Candidate Starts for WhereRU_249:

(1, 120531), (2, 120546), (Start: 4 @120570 has 10 MA's), (6, 120579), (7, 120582), (Start: 8 @120588 has 6 MA's), (9, 120600), (11, 120606), (15, 120702),