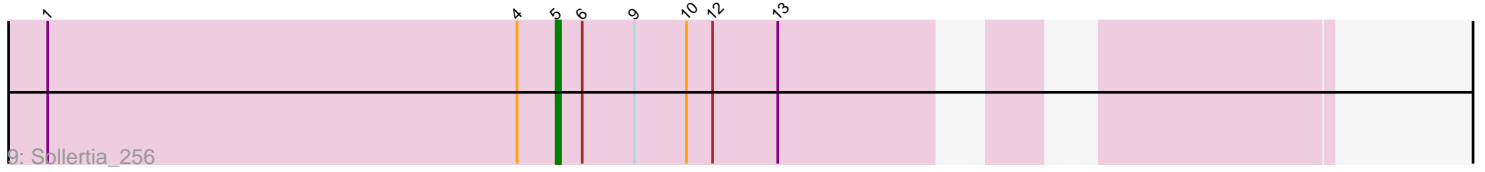
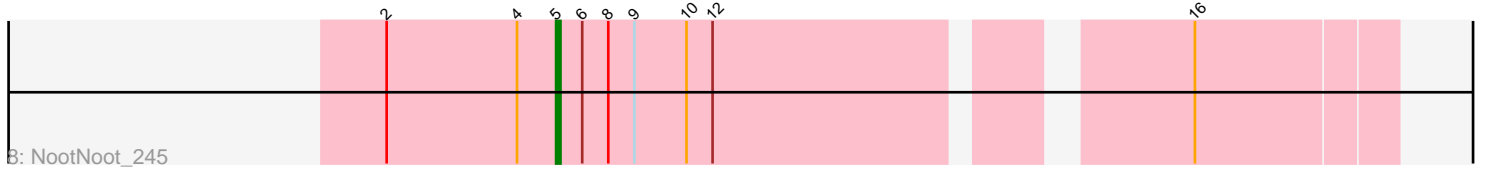
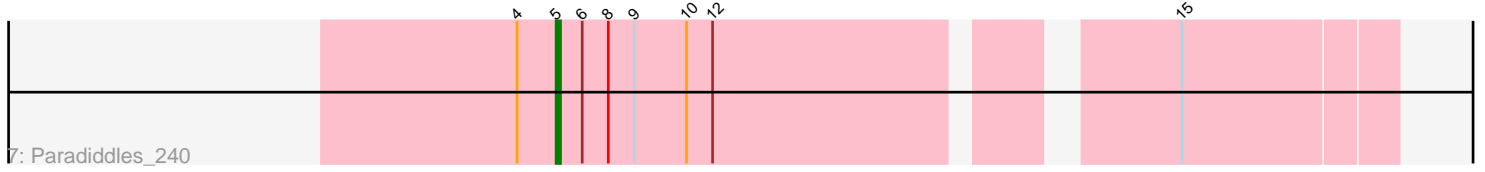
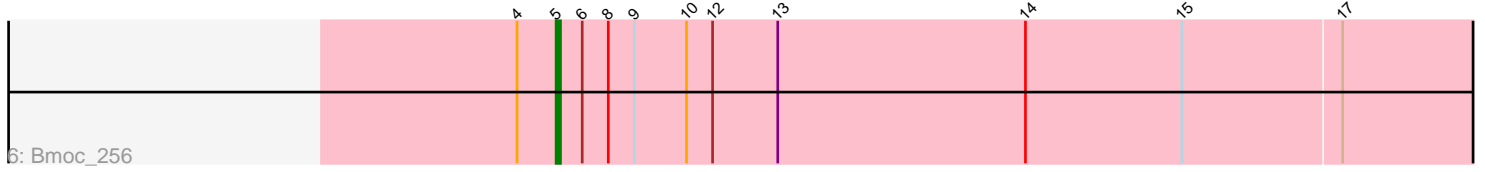
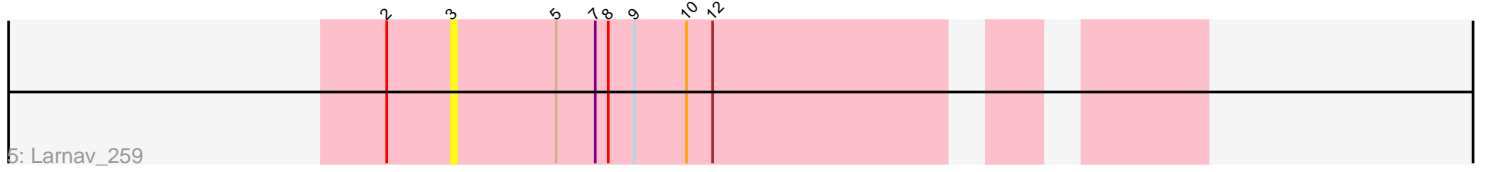
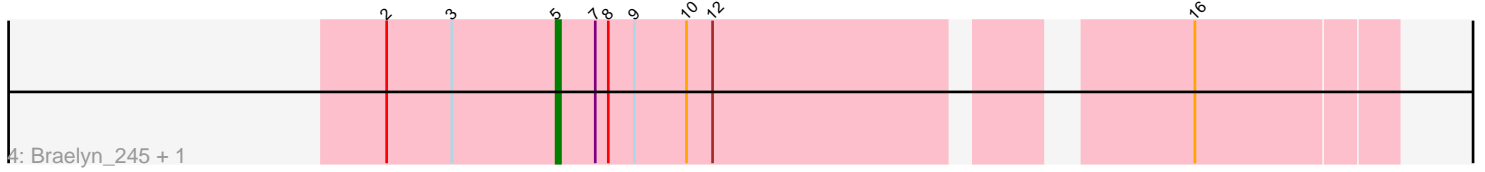
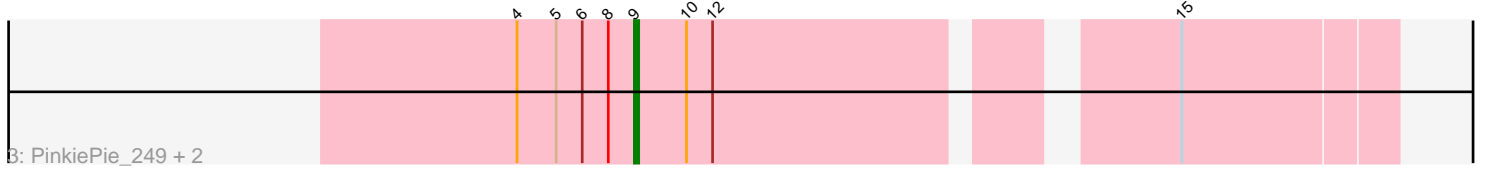
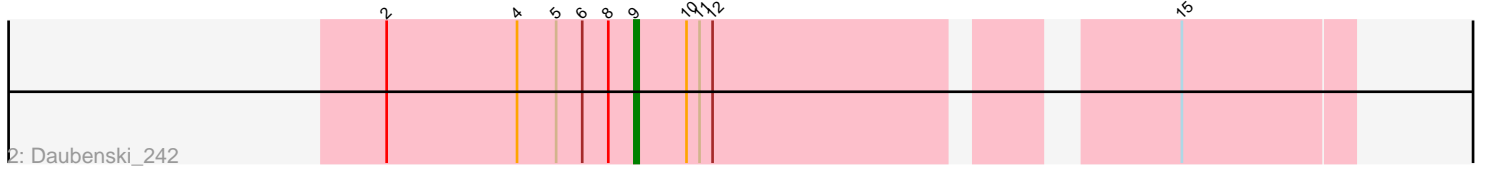
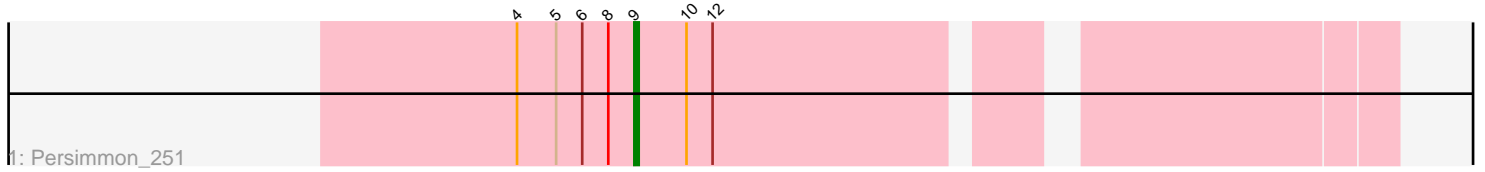


Pham 158311



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 158311 Report

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

Pham number 158311 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Persimmon_251
- Track 2 : Daubenski_242
- Track 3 : PinkiePie_249, Squillium_251, Liandry_248
- Track 4 : Braelyn_245, Bartholomune_249
- Track 5 : Larnav_259
- Track 6 : Bmoc_256
- Track 7 : Paradiddles_240
- Track 8 : NootNoot_245
- Track 9 : 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 5, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bartholomune_249, Bmoc_256, Braelyn_245, NootNoot_245, Paradiddles_240, Sollertia_256,

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

- Daubenski_242, Larnav_259, Liandry_248, Persimmon_251, PinkiePie_249, Squillium_251,

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

-

Summary by start number:

Start 3:

- Found in 3 of 12 (25.0%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Larnav_259 (BE1),

Start 5:

- Found in 12 of 12 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bartholomune_249 (BE1), Bmoc_256 (BE1), Braelyn_245 (BE1), NootNoot_245 (BE1), Paradiddles_240 (BE1), Sollertia_256 (BE2),

Start 9:

- Found in 12 of 12 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 41.7% of time when present
- Phage (with cluster) where this start called: Daubenski_242 (BE1), Liandry_248 (BE1), Persimmon_251 (BE1), PinkiePie_249 (BE1), Squillium_251 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 5 was manually annotated 5 times for cluster BE1.
- Start number 9 was manually annotated 5 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 5 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Bartholomune_249 Start: 120501, Stop: 120677, Start Num: 5

Candidate Starts for Bartholomune_249:

(2, 120462), (3, 120477), (Start: 5 @120501 has 6 MA's), (7, 120510), (8, 120513), (Start: 9 @120519 has 5 MA's), (10, 120531), (12, 120537), (16, 120633),

Gene: Bmoc_256 Start: 121294, Stop: 121539, Start Num: 5

Candidate Starts for Bmoc_256:

(4, 121285), (Start: 5 @121294 has 6 MA's), (6, 121300), (8, 121306), (Start: 9 @121312 has 5 MA's), (10, 121324), (12, 121330), (13, 121345), (14, 121402), (15, 121438), (17, 121474),

Gene: Braelyn_245 Start: 119835, Stop: 120011, Start Num: 5

Candidate Starts for Braelyn_245:

(2, 119796), (3, 119811), (Start: 5 @119835 has 6 MA's), (7, 119844), (8, 119847), (Start: 9 @119853 has 5 MA's), (10, 119865), (12, 119871), (16, 119967),

Gene: Daubenski_242 Start: 121832, Stop: 121981, Start Num: 9

Candidate Starts for Daubenski_242:

(2, 121775), (4, 121805), (Start: 5 @121814 has 6 MA's), (6, 121820), (8, 121826), (Start: 9 @121832 has 5 MA's), (10, 121844), (11, 121847), (12, 121850), (15, 121943),

Gene: Larnav_259 Start: 121417, Stop: 121572, Start Num: 3

Candidate Starts for Larnav_259:

(2, 121402), (3, 121417), (Start: 5 @121441 has 6 MA's), (7, 121450), (8, 121453), (Start: 9 @121459 has 5 MA's), (10, 121471), (12, 121477),

Gene: Liandry_248 Start: 120940, Stop: 121098, Start Num: 9

Candidate Starts for Liandry_248:

(4, 120913), (Start: 5 @120922 has 6 MA's), (6, 120928), (8, 120934), (Start: 9 @120940 has 5 MA's), (10, 120952), (12, 120958), (15, 121051),

Gene: NootNoot_245 Start: 119734, Stop: 119910, Start Num: 5

Candidate Starts for NootNoot_245:

(2, 119695), (4, 119725), (Start: 5 @119734 has 6 MA's), (6, 119740), (8, 119746), (Start: 9 @119752 has 5 MA's), (10, 119764), (12, 119770), (16, 119866),

Gene: Paradiddles_240 Start: 122109, Stop: 122285, Start Num: 5

Candidate Starts for Paradiddles_240:

(4, 122100), (Start: 5 @122109 has 6 MA's), (6, 122115), (8, 122121), (Start: 9 @122127 has 5 MA's), (10, 122139), (12, 122145), (15, 122238),

Gene: Persimmon_251 Start: 120254, Stop: 120412, Start Num: 9

Candidate Starts for Persimmon_251:

(4, 120227), (Start: 5 @120236 has 6 MA's), (6, 120242), (8, 120248), (Start: 9 @120254 has 5 MA's), (10, 120266), (12, 120272),

Gene: PinkiePie_249 Start: 120940, Stop: 121098, Start Num: 9

Candidate Starts for PinkiePie_249:

(4, 120913), (Start: 5 @120922 has 6 MA's), (6, 120928), (8, 120934), (Start: 9 @120940 has 5 MA's), (10, 120952), (12, 120958), (15, 121051),

Gene: Sollertia_256 Start: 118330, Stop: 118482, Start Num: 5

Candidate Starts for Sollertia_256:

(1, 118213), (4, 118321), (Start: 5 @118330 has 6 MA's), (6, 118336), (Start: 9 @118348 has 5 MA's), (10, 118360), (12, 118366), (13, 118381),

Gene: Squillium_251 Start: 120942, Stop: 121115, Start Num: 9

Candidate Starts for Squillium_251:

(4, 120915), (Start: 5 @120924 has 6 MA's), (6, 120930), (8, 120936), (Start: 9 @120942 has 5 MA's), (10, 120954), (12, 120960), (15, 121053),