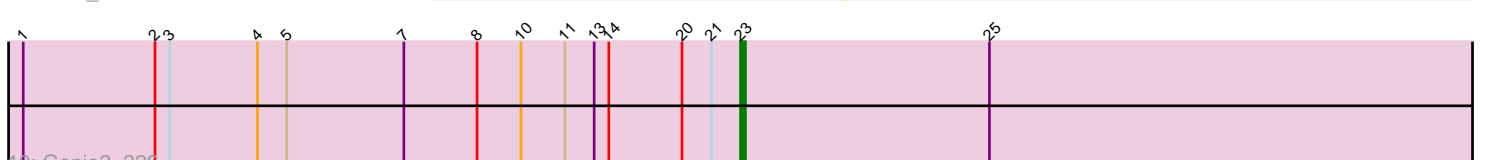
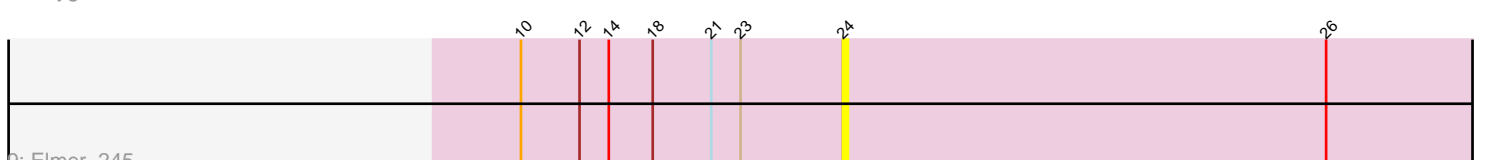
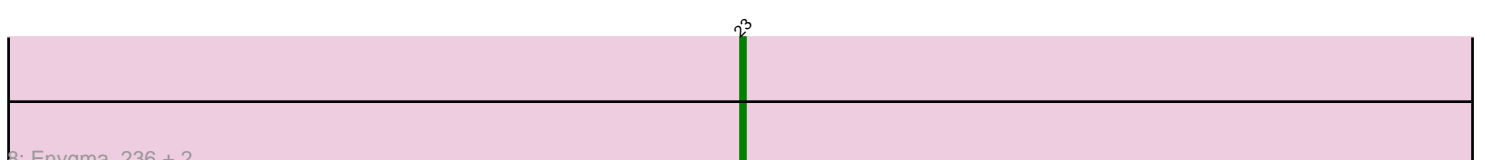
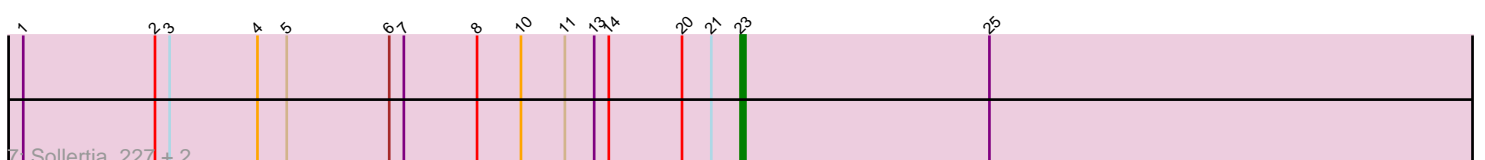
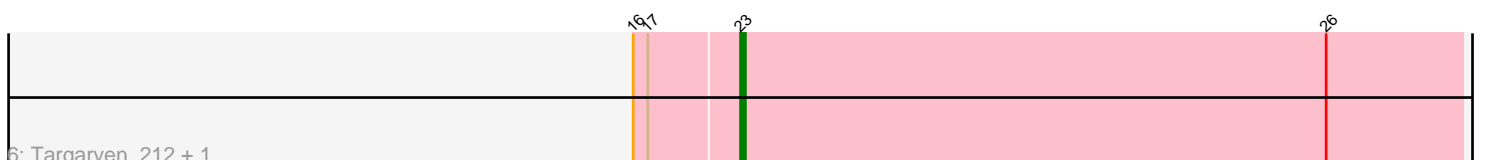
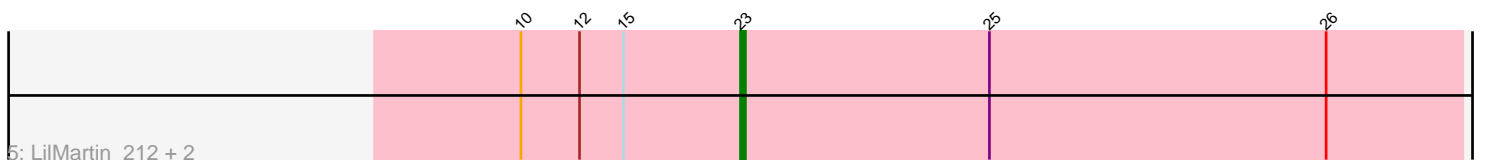
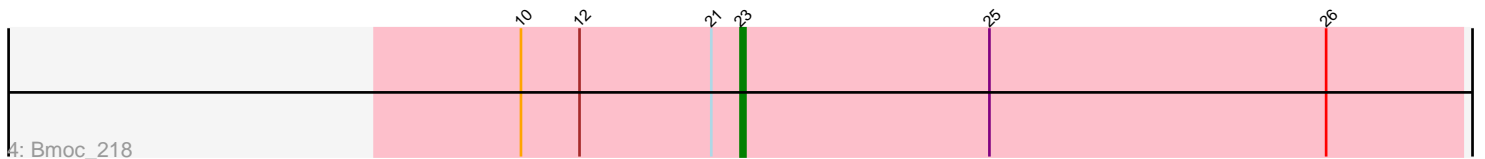
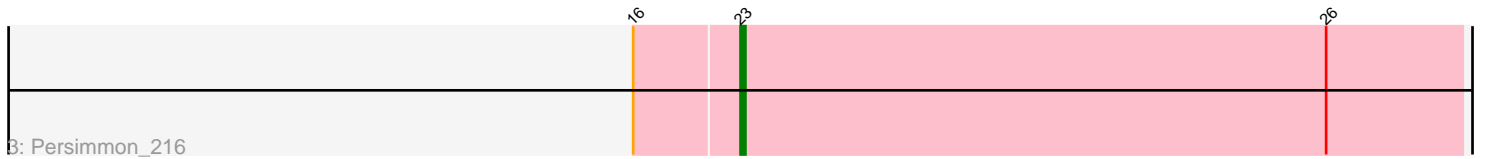
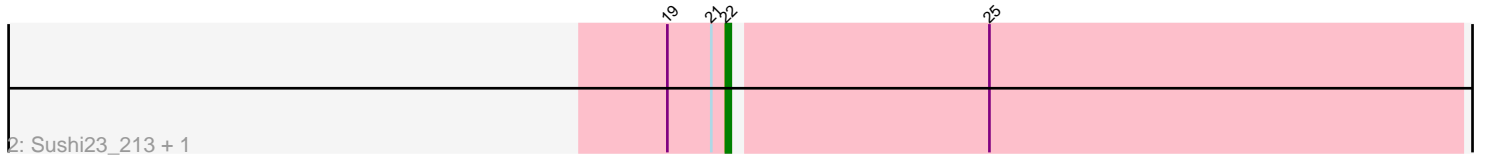
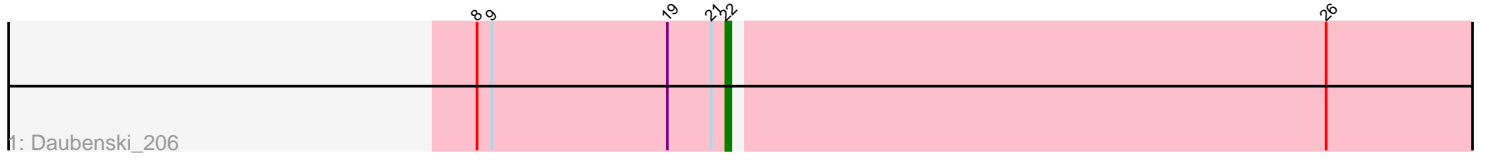


Pham 156717



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 156717 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156717 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Daubenski_206
- Track 2 : Sushi23_213, Cursive_215
- Track 3 : Persimmon_216
- Track 4 : Bmoc_218
- Track 5 : LilMartin_212, Angela_215, MulchMansion_216
- Track 6 : Targaryen_212, Warpy_216
- Track 7 : Sollertia_227, BoomerJR_226, Yaboi_231
- Track 8 : Enygma_236, Amabiko_232, Mildred21_222
- Track 9 : Elmer_245
- Track 10 : Genie2_226

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

The start number called the most often in the published annotations is 23, it was called in 14 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_232, Angela_215, Bmoc_218, BoomerJR_226, Enygma_236, Genie2_226, LilMartin_212, Mildred21_222, MulchMansion_216, Persimmon_216, Sollertia_227, Targaryen_212, Warpy_216, Yaboi_231,

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

- Elmer_245,

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

- Cursive_215, Daubenski_206, Sushi23_213,

Summary by start number:

Start 22:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Cursive_215 (BE1), Daubenski_206 (BE1), Sushi23_213 (BE1),

Start 23:

- Found in 15 of 18 (83.3%) of genes in pham
- Manual Annotations of this start: 14 of 17
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Amabiko_232 (BE2), Angela_215 (BE1), Bmoc_218 (BE1), BoomerJR_226 (BE2), Enygma_236 (BE2), Genie2_226 (BE2), LilMartin_212 (BE1), Mildred21_222 (BE1), MulchMansion_216 (BE1), Persimmon_216 (BE1), Sollertia_227 (BE2), Targaryen_212 (BE1), Warpy_216 (BE1), Yaboi_231 (BE2),

Start 24:

- Found in 1 of 18 (5.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elmer_245 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 22 was manually annotated 3 times for cluster BE1.
- Start number 23 was manually annotated 8 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 23 was manually annotated 6 times for cluster BE2.

Gene Information:

Gene: Amabiko_232 Start: 108326, Stop: 108538, Start Num: 23

Candidate Starts for Amabiko_232:

(Start: 23 @108326 has 14 MA's),

Gene: Angela_215 Start: 106346, Stop: 106540, Start Num: 23

Candidate Starts for Angela_215:

(10, 106301), (12, 106313), (15, 106322), (Start: 23 @106346 has 14 MA's), (25, 106397), (26, 106466),

Gene: Bmoc_218 Start: 107192, Stop: 107386, Start Num: 23

Candidate Starts for Bmoc_218:

(10, 107147), (12, 107159), (21, 107186), (Start: 23 @107192 has 14 MA's), (25, 107243), (26, 107312),

Gene: BoomerJR_226 Start: 108638, Stop: 108850, Start Num: 23

Candidate Starts for BoomerJR_226:

(1, 108491), (2, 108518), (3, 108521), (4, 108539), (5, 108545), (6, 108566), (7, 108569), (8, 108584), (10, 108593), (11, 108602), (13, 108608), (14, 108611), (20, 108626), (21, 108632), (Start: 23 @108638 has 14 MA's), (25, 108689),

Gene: Cursive_215 Start: 107075, Stop: 107269, Start Num: 22
Candidate Starts for Cursive_215:
(19, 107063), (21, 107072), (Start: 22 @107075 has 3 MA's), (25, 107126),

Gene: Daubenski_206 Start: 107436, Stop: 107639, Start Num: 22
Candidate Starts for Daubenski_206:
(8, 107385), (9, 107388), (19, 107424), (21, 107433), (Start: 22 @107436 has 3 MA's), (26, 107556),

Gene: Elmer_245 Start: 112235, Stop: 112426, Start Num: 24
Candidate Starts for Elmer_245:
(10, 112169), (12, 112181), (14, 112187), (18, 112196), (21, 112208), (Start: 23 @112214 has 14 MA's), (24, 112235), (26, 112334),

Gene: Enygma_236 Start: 111443, Stop: 111655, Start Num: 23
Candidate Starts for Enygma_236:
(Start: 23 @111443 has 14 MA's),

Gene: Genie2_226 Start: 108763, Stop: 108975, Start Num: 23
Candidate Starts for Genie2_226:
(1, 108616), (2, 108643), (3, 108646), (4, 108664), (5, 108670), (7, 108694), (8, 108709), (10, 108718), (11, 108727), (13, 108733), (14, 108736), (20, 108751), (21, 108757), (Start: 23 @108763 has 14 MA's), (25, 108814),

Gene: LilMartin_212 Start: 105710, Stop: 105904, Start Num: 23
Candidate Starts for LilMartin_212:
(10, 105665), (12, 105677), (15, 105686), (Start: 23 @105710 has 14 MA's), (25, 105761), (26, 105830),

Gene: Mildred21_222 Start: 105503, Stop: 105751, Start Num: 23
Candidate Starts for Mildred21_222:
(Start: 23 @105503 has 14 MA's),

Gene: MulchMansion_216 Start: 107344, Stop: 107538, Start Num: 23
Candidate Starts for MulchMansion_216:
(10, 107299), (12, 107311), (15, 107320), (Start: 23 @107344 has 14 MA's), (25, 107395), (26, 107464),

Gene: Persimmon_216 Start: 106493, Stop: 106687, Start Num: 23
Candidate Starts for Persimmon_216:
(16, 106472), (Start: 23 @106493 has 14 MA's), (26, 106613),

Gene: Sollertia_227 Start: 108752, Stop: 108964, Start Num: 23
Candidate Starts for Sollertia_227:
(1, 108605), (2, 108632), (3, 108635), (4, 108653), (5, 108659), (6, 108680), (7, 108683), (8, 108698), (10, 108707), (11, 108716), (13, 108722), (14, 108725), (20, 108740), (21, 108746), (Start: 23 @108752 has 14 MA's), (25, 108803),

Gene: Sushi23_213 Start: 108044, Stop: 108238, Start Num: 22
Candidate Starts for Sushi23_213:
(19, 108032), (21, 108041), (Start: 22 @108044 has 3 MA's), (25, 108095),

Gene: Targaryen_212 Start: 108246, Stop: 108440, Start Num: 23

Candidate Starts for Targaryen_212:

(16, 108225), (17, 108228), (Start: 23 @108246 has 14 MA's), (26, 108366),

Gene: Warpy_216 Start: 107155, Stop: 107349, Start Num: 23

Candidate Starts for Warpy_216:

(16, 107134), (17, 107137), (Start: 23 @107155 has 14 MA's), (26, 107275),

Gene: Yaboi_231 Start: 108687, Stop: 108899, Start Num: 23

Candidate Starts for Yaboi_231:

(1, 108540), (2, 108567), (3, 108570), (4, 108588), (5, 108594), (6, 108615), (7, 108618), (8, 108633),
(10, 108642), (11, 108651), (13, 108657), (14, 108660), (20, 108675), (21, 108681), (Start: 23
@108687 has 14 MA's), (25, 108738),