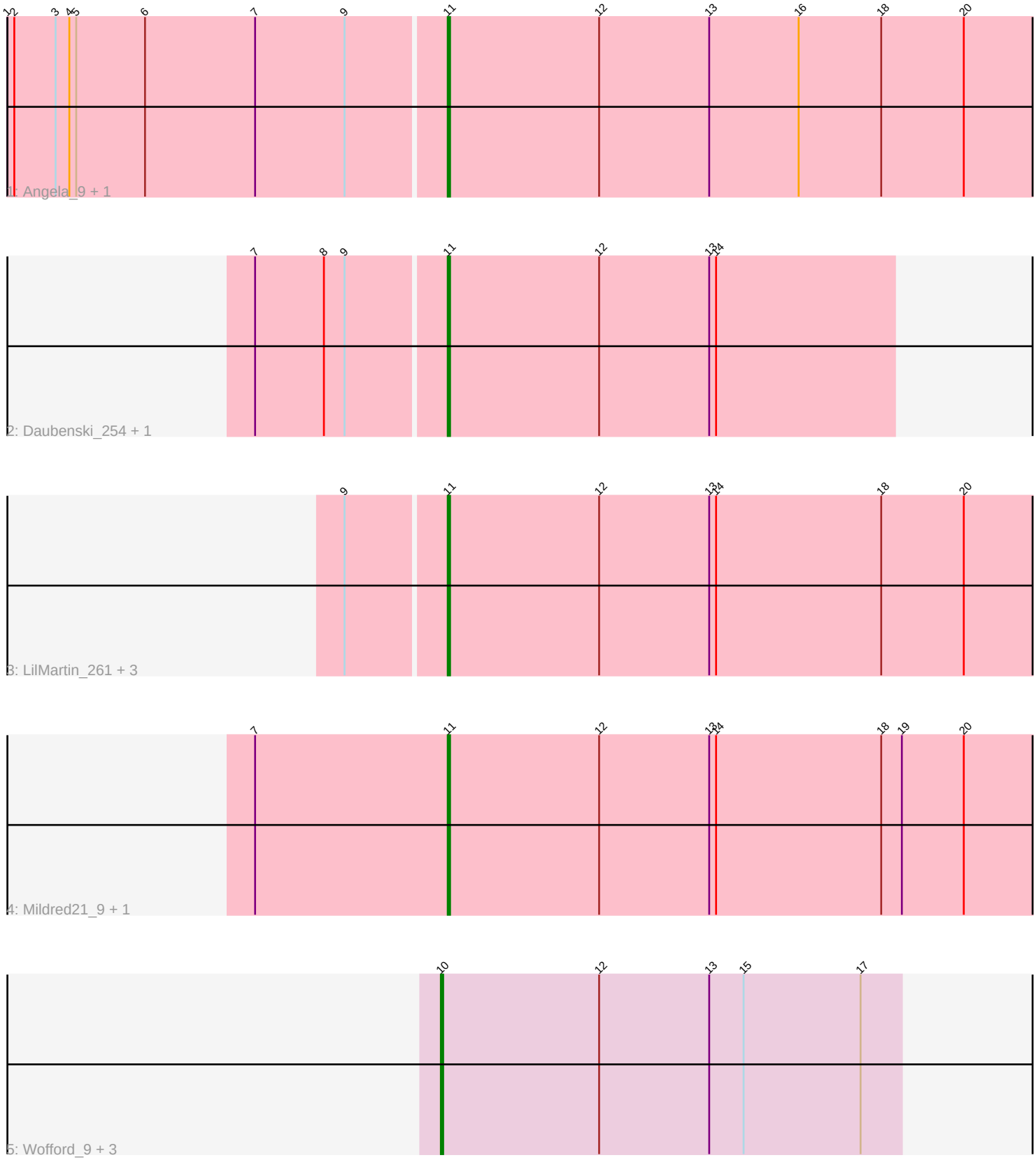
Pham 5083


1: Angela_9 + 1
2: Daubenski_254 + 1
3: LilMartin_261 + 3
4: Mildred21_9 + 1
5: Wofford_9 + 3

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 5083 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5083 has 14 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Angela_9, Angela_266
• Track 2 : Daubenski_254, Daubenski_10
• Track 3 : LilMartin_261, MulchMansion_265, LilMartin_9, MulchMansion_9
• Track 4 : Mildred21_9, Mildred21_272
• Track 5 : Wofford_9, Wofford_267, Elmer_10, Elmer_286

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

The start number called the most often in the published annotations is 11, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Angela_266, Angela_9, Daubenski_10, Daubenski_254, LilMartin_261, LilMartin_9, Mildred21_272, Mildred21_9, MulchMansion_265, MulchMansion_9,

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

Genes that do not have the "Most Annotated" start:
• Elmer_10, Elmer_286, Wofford_267, Wofford_9,

Summary by start number:

Start 10:
• Found in 4 of 14 (28.6%) of genes in pham
• Manual Annotations of this start: 2 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elmer_10 (BE2), Elmer_286 (BE2), Wofford_267 (BE2), Wofford_9 (BE2),

Start 11:
• Found in 10 of 14 (71.4%) of genes in pham
• Manual Annotations of this start: 10 of 12
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Angela_266 (BE1), Angela_9 (BE1), Daubenski_10 (BE1), Daubenski_254 (BE1), LilMartin_261 (BE1), LilMartin_9 (BE1), Mildred21_272 (BE1), Mildred21_9 (BE1), MulchMansion_265 (BE1), MulchMansion_9 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:
•Start number 11 was manually annotated 10 times for cluster BE1.

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

Gene Information:

Gene: Angela_9 Start: 5879, Stop: 5604, Start Num: 11
Candidate Starts for Angela_9:
(1, 6068), (2, 6065), (3, 6047), (4, 6041), (5, 6038), (6, 6008), (7, 5960), (9, 5921), (Start: 11 @5879 has 10 MA's), (12, 5813), (13, 5765), (16, 5726), (18, 5690), (20, 5654),

Gene: Angela_266 Start: 128282, Stop: 128007, Start Num: 11
Candidate Starts for Angela_266:
(1, 128471), (2, 128468), (3, 128450), (4, 128444), (5, 128441), (6, 128411), (7, 128363), (9, 128324), (Start: 11 @128282 has 10 MA's), (12, 128216), (13, 128168), (16, 128129), (18, 128093), (20, 128057),

Gene: Daubenski_254 Start: 128126, Stop: 127932, Start Num: 11
Candidate Starts for Daubenski_254:
(7, 128207), (8, 128177), (9, 128168), (Start: 11 @128126 has 10 MA's), (12, 128060), (13, 128012), (14, 128009),

Gene: Daubenski_10 Start: 5750, Stop: 5556, Start Num: 11
Candidate Starts for Daubenski_10:
(7, 5831), (8, 5801), (9, 5792), (Start: 11 @5750 has 10 MA's), (12, 5684), (13, 5636), (14, 5633),

Gene: Elmer_10 Start: 5352, Stop: 5152, Start Num: 10
Candidate Starts for Elmer_10:
(Start: 10 @5352 has 2 MA's), (12, 5283), (13, 5235), (15, 5220), (17, 5169),

Gene: Elmer_286 Start: 127720, Stop: 127520, Start Num: 10
Candidate Starts for Elmer_286:
(Start: 10 @127720 has 2 MA's), (12, 127651), (13, 127603), (15, 127588), (17, 127537),

Gene: LilMartin_261 Start: 127209, Stop: 126934, Start Num: 11
Candidate Starts for LilMartin_261:
(9, 127251), (Start: 11 @127209 has 10 MA's), (12, 127143), (13, 127095), (14, 127092), (18, 127020), (20, 126984),

Gene: LilMartin_9 Start: 5865, Stop: 5590, Start Num: 11

Candidate Starts for LilMartin_9:
(9, 5907), (Start: 11 @5865 has 10 MA's), (12, 5799), (13, 5751), (14, 5748), (18, 5676), (20, 5640),

Gene: Mildred21_9 Start: 5450, Stop: 5175, Start Num: 11
Candidate Starts for Mildred21_9:
(7, 5534), (Start: 11 @5450 has 10 MA's), (12, 5384), (13, 5336), (14, 5333), (18, 5261), (19, 5252), (20, 5225),

Gene: Mildred21_272 Start: 126608, Stop: 126333, Start Num: 11
Candidate Starts for Mildred21_272:
(7, 126692), (Start: 11 @126608 has 10 MA's), (12, 126542), (13, 126494), (14, 126491), (18, 126419), (19, 126410), (20, 126383),

Gene: MulchMansion_265 Start: 128843, Stop: 128568, Start Num: 11
Candidate Starts for MulchMansion_265:
(9, 128885), (Start: 11 @128843 has 10 MA's), (12, 128777), (13, 128729), (14, 128726), (18, 128654), (20, 128618),

Gene: MulchMansion_9 Start: 5865, Stop: 5590, Start Num: 11
Candidate Starts for MulchMansion_9:
(9, 5907), (Start: 11 @5865 has 10 MA's), (12, 5799), (13, 5751), (14, 5748), (18, 5676), (20, 5640),

Gene: Wofford_9 Start: 5357, Stop: 5157, Start Num: 10
Candidate Starts for Wofford_9:
(Start: 10 @5357 has 2 MA's), (12, 5288), (13, 5240), (15, 5225), (17, 5174),

Gene: Wofford_267 Start: 127150, Stop: 126950, Start Num: 10
Candidate Starts for Wofford_267:
(Start: 10 @127150 has 2 MA's), (12, 127081), (13, 127033), (15, 127018), (17, 126967),