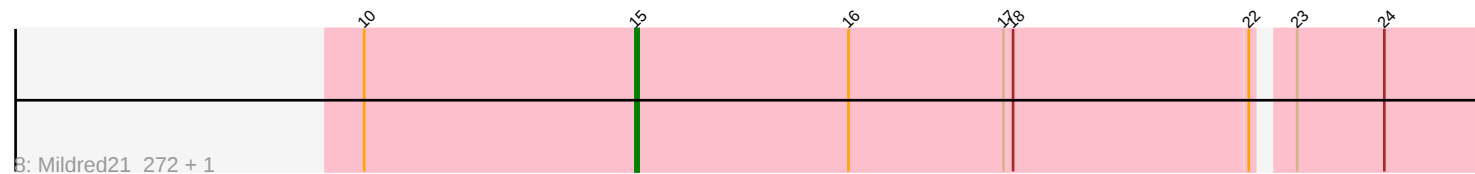
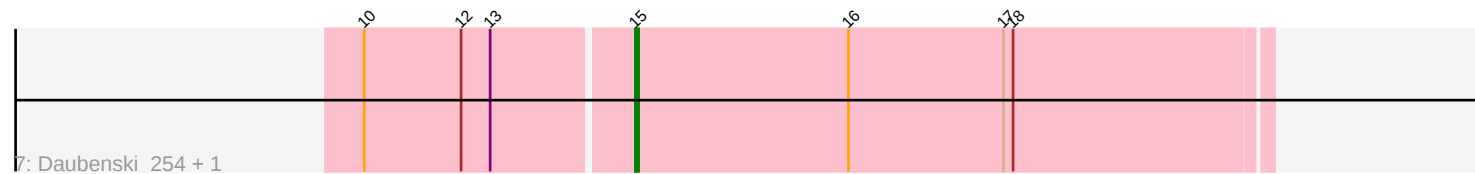
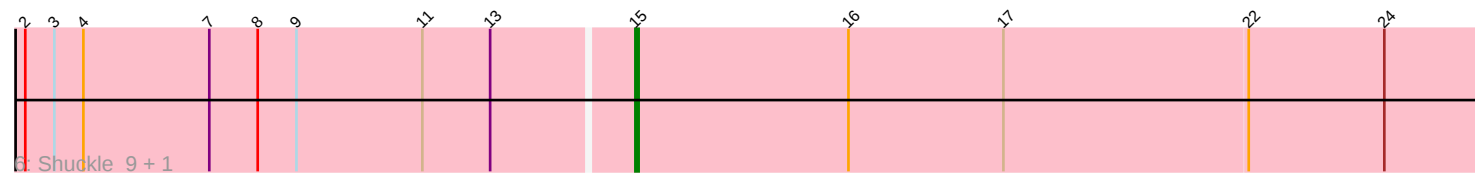
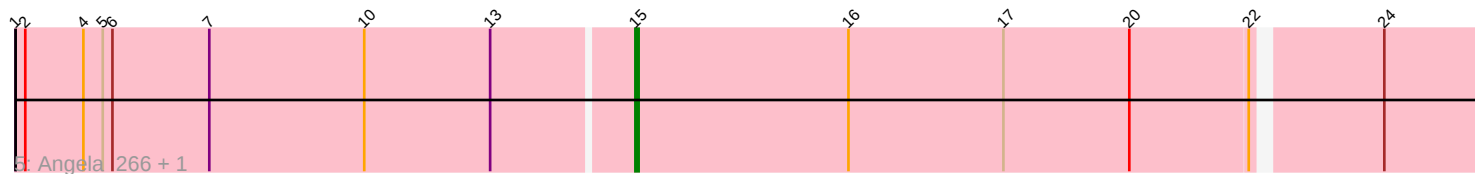
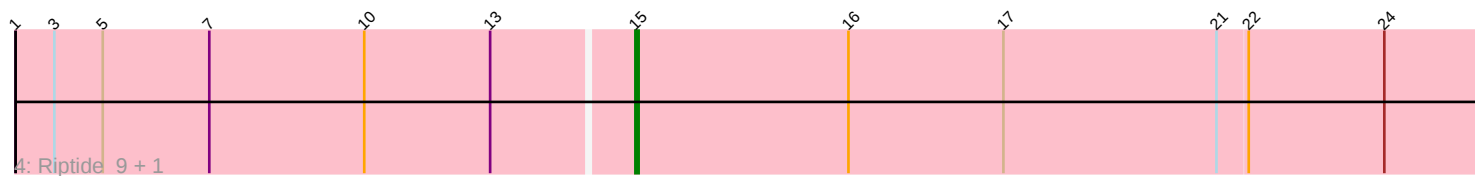
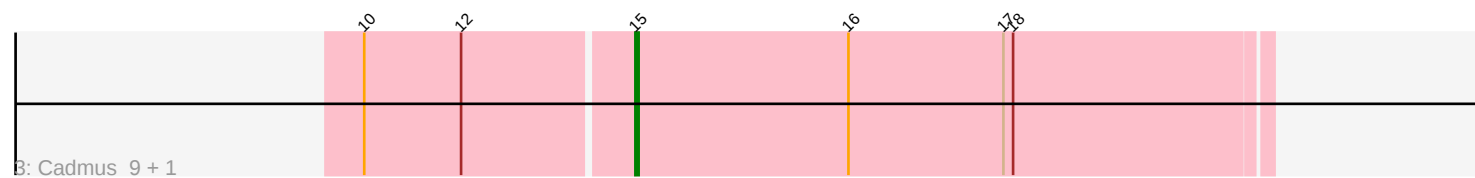
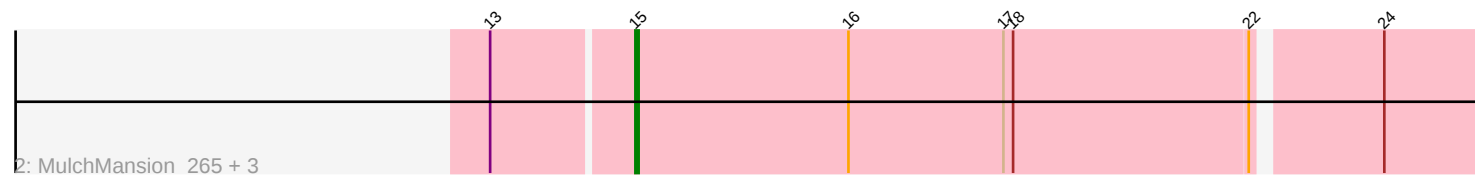


Pham 331220



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 331220 Report

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

Pham number 331220 has 22 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Marsus_266, Marsus_9
- Track 2 : MulchMansion_265, LilMartin_261, LilMartin_9, MulchMansion_9
- Track 3 : Cadmus_9, Cadmus_257
- Track 4 : Riptide_9, Riptide_264
- Track 5 : Angela_266, Angela_9
- Track 6 : Shuckle_9, Shuckle_257
- Track 7 : Daubenski_254, Daubenski_10
- Track 8 : Mildred21_272, Mildred21_9
- Track 9 : Wofford_9, Elmer_9, Wofford_267, Elmer_276

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

The start number called the most often in the published annotations is 15, it was called in 18 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angela_266, Angela_9, Cadmus_257, Cadmus_9, Daubenski_10, Daubenski_254, LilMartin_261, LilMartin_9, Marsus_266, Marsus_9, Mildred21_272, Mildred21_9, MulchMansion_265, MulchMansion_9, Riptide_264, Riptide_9, Shuckle_257, Shuckle_9,

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

-

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

- Elmer_276, Elmer_9, Wofford_267, Wofford_9,

Summary by start number:

Start 14:

- Found in 4 of 22 (18.2%) of genes in pham
- Manual Annotations of this start: 4 of 22
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Elmer_276 (BE2), Elmer_9 (BE2), Wofford_267 (BE2), Wofford_9 (BE2),

Start 15:

- Found in 18 of 22 (81.8%) of genes in pham
- Manual Annotations of this start: 18 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angela_266 (BE1), Angela_9 (BE1), Cadmus_257 (BE1), Cadmus_9 (BE1), Daubenski_10 (BE1), Daubenski_254 (BE1), LilMartin_261 (BE1), LilMartin_9 (BE1), Marsus_266 (BE1), Marsus_9 (BE1), Mildred21_272 (BE1), Mildred21_9 (BE1), MulchMansion_265 (BE1), MulchMansion_9 (BE1), Riptide_264 (BE1), Riptide_9 (BE1), Shuckle_257 (BE1), Shuckle_9 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 15 was manually annotated 18 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 14 was manually annotated 4 times for cluster BE2.

Gene Information:

Gene: Angela_266 Start: 128282, Stop: 128007, Start Num: 15

Candidate Starts for Angela_266:

(1, 128471), (2, 128468), (4, 128450), (5, 128444), (6, 128441), (7, 128411), (10, 128363), (13, 128324), (Start: 15 @128282 has 18 MA's), (16, 128216), (17, 128168), (20, 128129), (22, 128093), (24, 128057),

Gene: Angela_9 Start: 5879, Stop: 5604, Start Num: 15

Candidate Starts for Angela_9:

(1, 6068), (2, 6065), (4, 6047), (5, 6041), (6, 6038), (7, 6008), (10, 5960), (13, 5921), (Start: 15 @5879 has 18 MA's), (16, 5813), (17, 5765), (20, 5726), (22, 5690), (24, 5654),

Gene: Cadmus_9 Start: 5752, Stop: 5558, Start Num: 15

Candidate Starts for Cadmus_9:

(10, 5833), (12, 5803), (Start: 15 @5752 has 18 MA's), (16, 5686), (17, 5638), (18, 5635),

Gene: Cadmus_257 Start: 128233, Stop: 128039, Start Num: 15

Candidate Starts for Cadmus_257:

(10, 128314), (12, 128284), (Start: 15 @128233 has 18 MA's), (16, 128167), (17, 128119), (18, 128116),

Gene: Daubenski_254 Start: 128126, Stop: 127932, Start Num: 15

Candidate Starts for Daubenski_254:

(10, 128207), (12, 128177), (13, 128168), (Start: 15 @128126 has 18 MA's), (16, 128060), (17, 128012), (18, 128009),

Gene: Daubenski_10 Start: 5750, Stop: 5556, Start Num: 15
Candidate Starts for Daubenski_10:
(10, 5831), (12, 5801), (13, 5792), (Start: 15 @5750 has 18 MA's), (16, 5684), (17, 5636), (18, 5633),

Gene: Elmer_9 Start: 5352, Stop: 5152, Start Num: 14
Candidate Starts for Elmer_9:
(Start: 14 @5352 has 4 MA's), (16, 5283), (17, 5235), (19, 5220), (21, 5169),

Gene: Elmer_276 Start: 127720, Stop: 127520, Start Num: 14
Candidate Starts for Elmer_276:
(Start: 14 @127720 has 4 MA's), (16, 127651), (17, 127603), (19, 127588), (21, 127537),

Gene: LilMartin_261 Start: 127209, Stop: 126934, Start Num: 15
Candidate Starts for LilMartin_261:
(13, 127251), (Start: 15 @127209 has 18 MA's), (16, 127143), (17, 127095), (18, 127092), (22, 127020), (24, 126984),

Gene: LilMartin_9 Start: 5865, Stop: 5590, Start Num: 15
Candidate Starts for LilMartin_9:
(13, 5907), (Start: 15 @5865 has 18 MA's), (16, 5799), (17, 5751), (18, 5748), (22, 5676), (24, 5640),

Gene: Marsus_266 Start: 129568, Stop: 129287, Start Num: 15
Candidate Starts for Marsus_266:
(1, 129757), (3, 129745), (5, 129730), (7, 129697), (10, 129649), (11, 129631), (13, 129610), (Start: 15 @129568 has 18 MA's), (16, 129502), (17, 129454), (18, 129451), (21, 129388), (22, 129379), (24, 129337),

Gene: Marsus_9 Start: 5864, Stop: 5583, Start Num: 15
Candidate Starts for Marsus_9:
(1, 6053), (3, 6041), (5, 6026), (7, 5993), (10, 5945), (11, 5927), (13, 5906), (Start: 15 @5864 has 18 MA's), (16, 5798), (17, 5750), (18, 5747), (21, 5684), (22, 5675), (24, 5633),

Gene: Mildred21_272 Start: 126608, Stop: 126333, Start Num: 15
Candidate Starts for Mildred21_272:
(10, 126692), (Start: 15 @126608 has 18 MA's), (16, 126542), (17, 126494), (18, 126491), (22, 126419), (23, 126410), (24, 126383),

Gene: Mildred21_9 Start: 5450, Stop: 5175, Start Num: 15
Candidate Starts for Mildred21_9:
(10, 5534), (Start: 15 @5450 has 18 MA's), (16, 5384), (17, 5336), (18, 5333), (22, 5261), (23, 5252), (24, 5225),

Gene: MulchMansion_265 Start: 128843, Stop: 128568, Start Num: 15
Candidate Starts for MulchMansion_265:
(13, 128885), (Start: 15 @128843 has 18 MA's), (16, 128777), (17, 128729), (18, 128726), (22, 128654), (24, 128618),

Gene: MulchMansion_9 Start: 5865, Stop: 5590, Start Num: 15
Candidate Starts for MulchMansion_9:
(13, 5907), (Start: 15 @5865 has 18 MA's), (16, 5799), (17, 5751), (18, 5748), (22, 5676), (24, 5640),

Gene: Riptide_9 Start: 5926, Stop: 5645, Start Num: 15
Candidate Starts for Riptide_9:

(1, 6115), (3, 6103), (5, 6088), (7, 6055), (10, 6007), (13, 5968), (Start: 15 @5926 has 18 MA's), (16, 5860), (17, 5812), (21, 5746), (22, 5737), (24, 5695),

Gene: Riptide_264 Start: 127378, Stop: 127097, Start Num: 15

Candidate Starts for Riptide_264:

(1, 127567), (3, 127555), (5, 127540), (7, 127507), (10, 127459), (13, 127420), (Start: 15 @127378 has 18 MA's), (16, 127312), (17, 127264), (21, 127198), (22, 127189), (24, 127147),

Gene: Shuckle_9 Start: 5940, Stop: 5659, Start Num: 15

Candidate Starts for Shuckle_9:

(2, 6126), (3, 6117), (4, 6108), (7, 6069), (8, 6054), (9, 6042), (11, 6003), (13, 5982), (Start: 15 @5940 has 18 MA's), (16, 5874), (17, 5826), (22, 5751), (24, 5709),

Gene: Shuckle_257 Start: 128573, Stop: 128292, Start Num: 15

Candidate Starts for Shuckle_257:

(2, 128759), (3, 128750), (4, 128741), (7, 128702), (8, 128687), (9, 128675), (11, 128636), (13, 128615), (Start: 15 @128573 has 18 MA's), (16, 128507), (17, 128459), (22, 128384), (24, 128342),

Gene: Wofford_9 Start: 5357, Stop: 5157, Start Num: 14

Candidate Starts for Wofford_9:

(Start: 14 @5357 has 4 MA's), (16, 5288), (17, 5240), (19, 5225), (21, 5174),

Gene: Wofford_267 Start: 127150, Stop: 126950, Start Num: 14

Candidate Starts for Wofford_267:

(Start: 14 @127150 has 4 MA's), (16, 127081), (17, 127033), (19, 127018), (21, 126967),