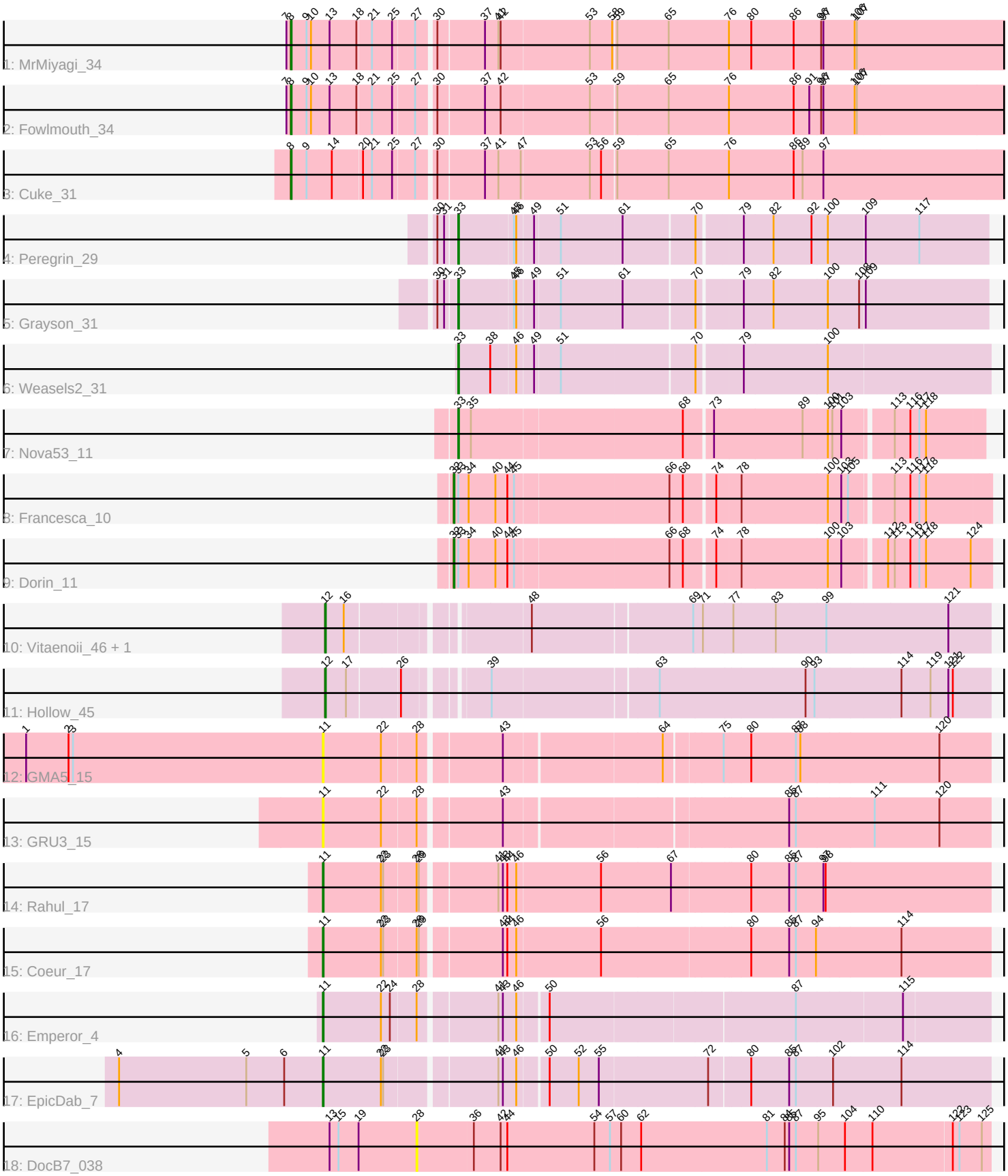
Pham 291573


1: MrMiyagi_34
2: Fowlmouth_34
3: Cuke_31
4: Peregrin_29
5: Grayson_31
6: Weasels2_31
7: Nova53_11
8: Francesca_10
9: Dorin_11
10: Vitaenoii_46 + 1
11: Hollow_45
12: GMA5_15
13: GRU3_15
14: Rahul_17
15: Coeur_17
16: Emperor_4
17: EpicDab_7
18: DocB7_038

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 291573 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291573 has 19 members, 3 are drafts.

Phages represented in each track:
- Track 1 : MrMiyagi_34
- Track 2 : Fowlmouth_34
- Track 3 : Cuke_31
- Track 4 : Peregrin_29
- Track 5 : Grayson_31
- Track 6 : Weasels2_31
- Track 7 : Nova53_11
- Track 8 : Francesca_10
- Track 9 : Dorin_11
- Track 10 : Vitaenoii_46, Philon9_46
- Track 11 : Hollow_45
- Track 12 : GMA5_15
- Track 13 : GRU3_15
- Track 14 : Rahul_17
- Track 15 : Coeur_17
- Track 16 : Emperor_4
- Track 17 : EpicDab_7
- Track 18 : DocB7_038

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

The start number called the most often in the published annotations is 33, it was called in 4 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Grayson_31, Nova53_11, Peregrin_29, Weasels2_31,

Genes that have the "Most Annotated" start but do not call it:
- Dorin_11, Francesca_10,

Genes that do not have the "Most Annotated" start:
- Coeur_17, Cuke_31, DocB7_038, Emperor_4, EpicDab_7, Fowlmouth_34, GMA5_15, GRU3_15, Hollow_45, MrMiyagi_34, Philon9_46, Rahul_17, Vitaenoii_46,

Summary by start number:

Start 8:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 3 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cuke_31 (AC), Fowlmouth_34 (AC), MrMiyagi_34 (AC),

Start 11:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 4 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coeur_17 (CW2), Emperor_4 (DM), EpicDab_7 (DM), GMA5_15 (CW2), GRU3_15 (CW2), Rahul_17 (CW2),

Start 12:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 3 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hollow_45 (CS4), Philon9_46 (CS4), Vitaenoii_46 (CS4),

Start 28:
• Found in 6 of 19 (31.6%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: DocB7_038 (singleton),

Start 32:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_11 (CG), Francesca_10 (CG),

Start 33:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 4 of 16
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Grayson_31 (CB), Nova53_11 (CG), Peregrin_29 (CB), Weasels2_31 (CB),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, DM, CB, CW2, CG, AC, CS4,

Info for manual annotations of cluster AC:
•Start number 8 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster CB:
•Start number 33 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CG:
•Start number 32 was manually annotated 2 times for cluster CG.
•Start number 33 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CS4:
•Start number 12 was manually annotated 3 times for cluster CS4.

Info for manual annotations of cluster CW2:
•Start number 11 was manually annotated 2 times for cluster CW2.

Info for manual annotations of cluster DM:
•Start number 11 was manually annotated 2 times for cluster DM.

Gene Information:

Gene: Coeur_17 Start: 11931, Stop: 12794, Start Num: 11
Candidate Starts for Coeur_17:
(Start: 11 @11931 has 4 MA's), (22, 12009), (23, 12012), (28, 12054), (29, 12057), (43, 12156), (44, 12162), (46, 12174), (56, 12285), (80, 12477), (85, 12528), (87, 12537), (94, 12564), (114, 12675),

Gene: Cuke_31 Start: 27339, Stop: 28265, Start Num: 8
Candidate Starts for Cuke_31:
(Start: 8 @27339 has 3 MA's), (9, 27360), (14, 27393), (20, 27432), (21, 27444), (25, 27471), (27, 27498), (30, 27519), (37, 27579), (41, 27597), (47, 27627), (53, 27717), (56, 27732), (59, 27750), (65, 27816), (76, 27897), (86, 27984), (89, 27996), (97, 28023),

Gene: DocB7_038 Start: 38440, Stop: 37679, Start Num: 28
Candidate Starts for DocB7_038:
(13, 38557), (15, 38545), (19, 38518), (28, 38440), (36, 38365), (42, 38329), (44, 38320), (54, 38203), (57, 38182), (60, 38167), (62, 38143), (81, 37975), (84, 37951), (85, 37945), (87, 37936), (95, 37906), (104, 37870), (110, 37834), (122, 37729), (123, 37720), (125, 37690),

Gene: Dorin_11 Start: 5894, Stop: 5211, Start Num: 32
Candidate Starts for Dorin_11:
(Start: 32 @5894 has 2 MA's), (Start: 33 @5888 has 4 MA's), (34, 5876), (40, 5840), (44, 5825), (45, 5816), (66, 5615), (68, 5597), (74, 5561), (78, 5531), (100, 5417), (103, 5399), (112, 5348), (113, 5339), (116, 5318), (117, 5306), (118, 5297), (124, 5237),

Gene: Emperor_4 Start: 2151, Stop: 2993, Start Num: 11
Candidate Starts for Emperor_4:
(Start: 11 @2151 has 4 MA's), (22, 2229), (24, 2241), (28, 2274), (41, 2370), (43, 2376), (46, 2394), (50, 2430), (87, 2745), (115, 2880),

Gene: EpicDab_7 Start: 4348, Stop: 5202, Start Num: 11
Candidate Starts for EpicDab_7:
(4, 4075), (5, 4246), (6, 4297), (Start: 11 @4348 has 4 MA's), (22, 4426), (23, 4429), (41, 4567), (43, 4573), (46, 4591), (50, 4627), (52, 4666), (55, 4693), (72, 4834), (80, 4885), (85, 4936), (87, 4945), (102, 4993), (114, 5083),

Gene: Fowlmouth_34 Start: 30830, Stop: 31756, Start Num: 8
Candidate Starts for Fowlmouth_34:

(7, 30824), (Start: 8 @30830 has 3 MA's), (9, 30851), (10, 30857), (13, 30881), (18, 30917), (21, 30935), (25, 30962), (27, 30989), (30, 31010), (37, 31070), (42, 31091), (53, 31208), (59, 31241), (65, 31307), (76, 31388), (86, 31475), (91, 31496), (96, 31511), (97, 31514), (106, 31556), (107, 31559),

Gene: Francesca_10 Start: 6016, Stop: 5336, Start Num: 32
Candidate Starts for Francesca_10:
(Start: 32 @6016 has 2 MA's), (Start: 33 @6010 has 4 MA's), (34, 5998), (40, 5962), (44, 5947), (45, 5938), (66, 5737), (68, 5719), (74, 5683), (78, 5653), (100, 5539), (103, 5521), (105, 5512), (113, 5461), (116, 5440), (117, 5428), (118, 5419),

Gene: GMA5_15 Start: 12085, Stop: 12933, Start Num: 11
Candidate Starts for GMA5_15:
(1, 11686), (2, 11743), (3, 11749), (Start: 11 @12085 has 4 MA's), (22, 12163), (28, 12208), (43, 12310), (64, 12511), (75, 12583), (80, 12616), (87, 12676), (88, 12682), (120, 12865),

Gene: GRU3_15 Start: 12090, Stop: 12938, Start Num: 11
Candidate Starts for GRU3_15:
(Start: 11 @12090 has 4 MA's), (22, 12168), (28, 12213), (43, 12315), (85, 12672), (87, 12681), (111, 12783), (120, 12870),

Gene: Grayson_31 Start: 9328, Stop: 8654, Start Num: 33
Candidate Starts for Grayson_31:
(30, 9352), (31, 9343), (Start: 33 @9328 has 4 MA's), (45, 9262), (46, 9259), (49, 9238), (51, 9205), (61, 9124), (70, 9031), (79, 8977), (82, 8938), (100, 8866), (108, 8824), (109, 8818),

Gene: Hollow_45 Start: 47078, Stop: 46251, Start Num: 12
Candidate Starts for Hollow_45:
(Start: 12 @47078 has 3 MA's), (17, 47051), (26, 46985), (39, 46892), (63, 46679), (90, 46493), (93, 46481), (114, 46370), (119, 46331), (121, 46307), (122, 46301),

Gene: MrMiyagi_34 Start: 30841, Stop: 31767, Start Num: 8
Candidate Starts for MrMiyagi_34:
(7, 30835), (Start: 8 @30841 has 3 MA's), (9, 30862), (10, 30868), (13, 30892), (18, 30928), (21, 30946), (25, 30973), (27, 31000), (30, 31021), (37, 31081), (41, 31099), (42, 31102), (53, 31219), (58, 31249), (59, 31252), (65, 31318), (76, 31399), (80, 31429), (86, 31486), (96, 31522), (97, 31525), (106, 31567), (107, 31570),

Gene: Nova53_11 Start: 6450, Stop: 5779, Start Num: 33
Candidate Starts for Nova53_11:
(Start: 33 @6450 has 4 MA's), (35, 6435), (68, 6159), (73, 6126), (89, 6009), (100, 5976), (101, 5970), (103, 5958), (113, 5898), (116, 5877), (117, 5865), (118, 5856),

Gene: Peregrin_29 Start: 8642, Stop: 7968, Start Num: 33
Candidate Starts for Peregrin_29:
(30, 8666), (31, 8657), (Start: 33 @8642 has 4 MA's), (45, 8576), (46, 8573), (49, 8552), (51, 8519), (61, 8438), (70, 8345), (79, 8291), (82, 8252), (92, 8201), (100, 8180), (109, 8132), (117, 8060),

Gene: Philon9_46 Start: 47751, Stop: 46924, Start Num: 12
Candidate Starts for Philon9_46:
(Start: 12 @47751 has 3 MA's), (16, 47727), (48, 47514), (69, 47307), (71, 47295), (77, 47256), (83, 47202), (99, 47139), (121, 46980),

Gene: Rahul_17 Start: 11952, Stop: 12815, Start Num: 11

Candidate Starts for Rahul_17:
(Start: 11 @11952 has 4 MA's), (22, 12030), (23, 12033), (28, 12075), (29, 12078), (41, 12171), (43, 12177), (44, 12183), (46, 12195), (56, 12306), (67, 12399), (80, 12498), (85, 12549), (87, 12558), (97, 12594), (98, 12597),

Gene: Vitaenoii_46 Start: 47750, Stop: 46923, Start Num: 12
Candidate Starts for Vitaenoii_46:
(Start: 12 @47750 has 3 MA's), (16, 47726), (48, 47513), (69, 47306), (71, 47294), (77, 47255), (83, 47201), (99, 47138), (121, 46979),

Gene: Weasels2_31 Start: 9643, Stop: 8966, Start Num: 33
Candidate Starts for Weasels2_31:
(Start: 33 @9643 has 4 MA's), (38, 9604), (46, 9574), (49, 9553), (51, 9520), (70, 9346), (79, 9292), (100, 9181),