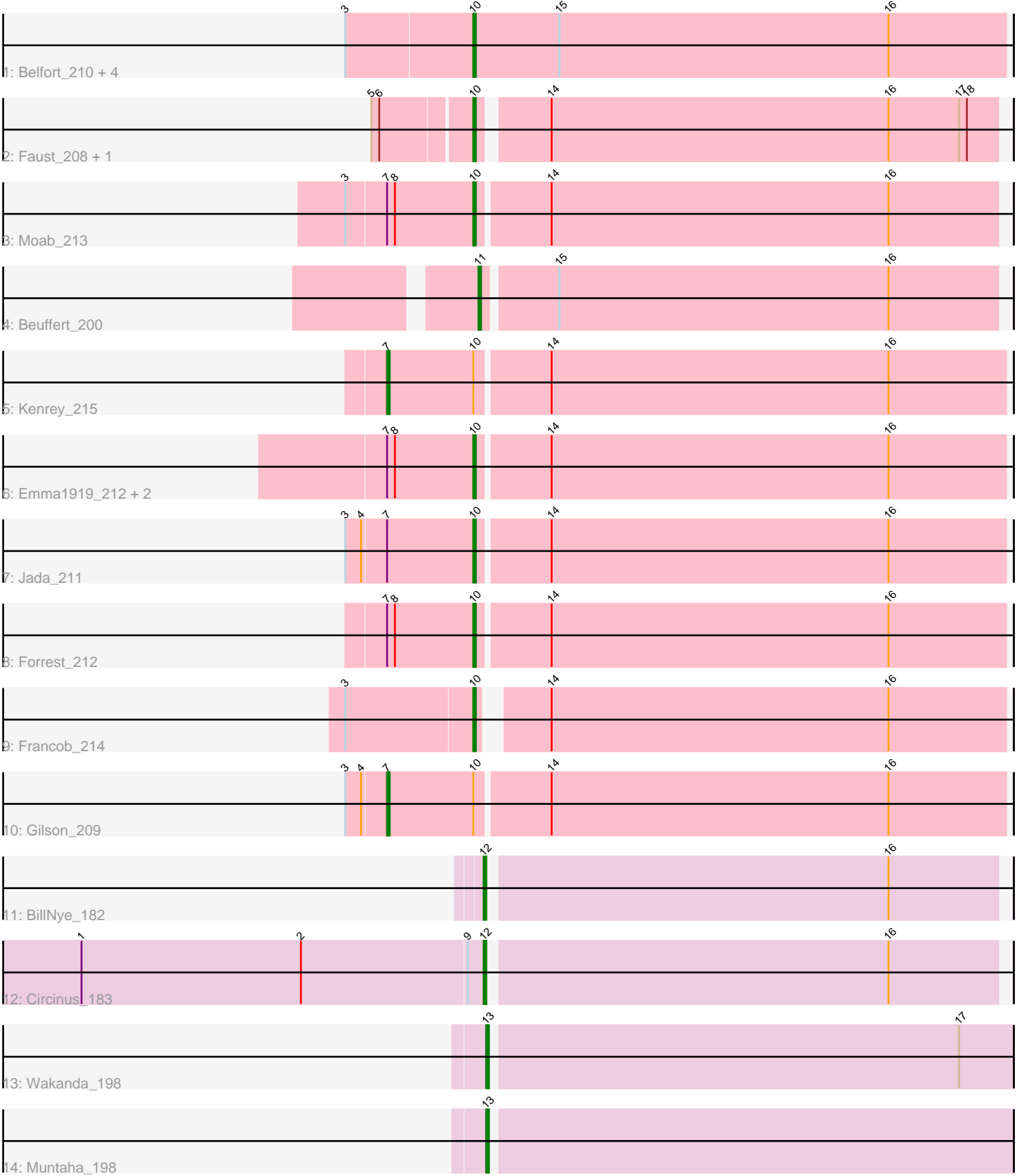# Pham 4281

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 4281 Report

This analysis was run 03/30/24 on database version 556.

Pham number 4281 has 21 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Belfort_210, Stigma_209, SparkleGoddess_210, Karp_206, Comrade_207
• Track 2 : Faust_208, SeresaTree_212
• Track 3 : Moab_213
• Track 4 : Beuffert_200
• Track 5 : Kenrey_215
• Track 6 : Emma1919_212, Phredrick_214, MeganTheeKilla_214
• Track 7 : Jada_211
• Track 8 : Forrest_212
• Track 9 : Francob_214
• Track 10 : Gilson_209
• Track 11 : BillNye_182
• Track 12 : Circinus_183
• Track 13 : Wakanda_198
• Track 14 : Muntaha_198

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

The start number called the most often in the published annotations is 10, it was called in 13 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Belfort_210, Comrade_207, Emma1919_212, Faust_208, Forrest_212, Francob_214, Jada_211, Karp_206, MeganTheeKilla_214, Moab_213, Phredrick_214, SeresaTree_212, SparkleGoddess_210, Stigma_209,

Genes that have the "Most Annotated" start but do not call it:
• Gilson_209, Kenrey_215,

Genes that do not have the "Most Annotated" start:
• Beuffert_200, BillNye_182, Circinus_183, Muntaha_198, Wakanda_198,

Summary by start number:

Start 7:

• Found in 8 of 21 (38.1%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Gilson_209 (BK1), Kenrey_215 (BK1),

Start 10:
• Found in 16 of 21 (76.2%) of genes in pham
• Manual Annotations of this start: 13 of 20
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Belfort_210 (BK1), Comrade_207 (BK1), Emma1919_212 (BK1), Faust_208 (BK1), Forrest_212 (BK1), Francob_214 (BK1), Jada_211 (BK1), Karp_206 (BK1), MeganTheeKilla_214 (BK1), Moab_213 (BK1), Phredrick_214 (BK1), SeresaTree_212 (BK1), SparkleGoddess_210 (BK1), Stigma_209 (BK1),

Start 11:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beuffert_200 (BK1),

Start 12:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_182 (BK2), Circinus_183 (BK2),

Start 13:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Muntaha_198 (BK2), Wakanda_198 (BK2),

Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 7 was manually annotated 2 times for cluster BK1.
•Start number 10 was manually annotated 13 times for cluster BK1.
•Start number 11 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 12 was manually annotated 2 times for cluster BK2.
•Start number 13 was manually annotated 2 times for cluster BK2.

Gene Information:
Gene: Belfort_210 Start: 105265, Stop: 105468, Start Num: 10
Candidate Starts for Belfort_210:

(3, 105217), (Start: 10 @105265 has 13 MA's), (15, 105298), (16, 105424),

Gene: Beuffert_200 Start: 102850, Stop: 103044, Start Num: 11
Candidate Starts for Beuffert_200:
(Start: 11 @102850 has 1 MA's), (15, 102877), (16, 103003),

Gene: BillNye_182 Start: 100211, Stop: 100402, Start Num: 12
Candidate Starts for BillNye_182:
(Start: 12 @100211 has 2 MA's), (16, 100361),

Gene: Circinus_183 Start: 100018, Stop: 100209, Start Num: 12
Candidate Starts for Circinus_183:
(1, 99865), (2, 99949), (9, 100012), (Start: 12 @100018 has 2 MA's), (16, 100168),

Gene: Comrade_207 Start: 105465, Stop: 105668, Start Num: 10
Candidate Starts for Comrade_207:
(3, 105417), (Start: 10 @105465 has 13 MA's), (15, 105498), (16, 105624),

Gene: Emma1919_212 Start: 103914, Stop: 104114, Start Num: 10
Candidate Starts for Emma1919_212:
(Start: 7 @103881 has 2 MA's), (8, 103884), (Start: 10 @103914 has 13 MA's), (14, 103941), (16, 104070),

Gene: Faust_208 Start: 106125, Stop: 106319, Start Num: 10
Candidate Starts for Faust_208:
(5, 106089), (6, 106092), (Start: 10 @106125 has 13 MA's), (14, 106149), (16, 106278), (17, 106305), (18, 106308),

Gene: Forrest_212 Start: 104880, Stop: 105080, Start Num: 10
Candidate Starts for Forrest_212:
(Start: 7 @104847 has 2 MA's), (8, 104850), (Start: 10 @104880 has 13 MA's), (14, 104907), (16, 105036),

Gene: Francob_214 Start: 104931, Stop: 105125, Start Num: 10
Candidate Starts for Francob_214:
(3, 104883), (Start: 10 @104931 has 13 MA's), (14, 104952), (16, 105081),

Gene: Gilson_209 Start: 103404, Stop: 103637, Start Num: 7
Candidate Starts for Gilson_209:
(3, 103389), (4, 103395), (Start: 7 @103404 has 2 MA's), (Start: 10 @103437 has 13 MA's), (14, 103464), (16, 103593),

Gene: Jada_211 Start: 104113, Stop: 104313, Start Num: 10
Candidate Starts for Jada_211:
(3, 104065), (4, 104071), (Start: 7 @104080 has 2 MA's), (Start: 10 @104113 has 13 MA's), (14, 104140), (16, 104269),

Gene: Karp_206 Start: 105632, Stop: 105835, Start Num: 10
Candidate Starts for Karp_206:
(3, 105584), (Start: 10 @105632 has 13 MA's), (15, 105665), (16, 105791),

Gene: Kenrey_215 Start: 104624, Stop: 104857, Start Num: 7
Candidate Starts for Kenrey_215:

(Start: 7 @104624 has 2 MA's), (Start: 10 @104657 has 13 MA's), (14, 104684), (16, 104813),

Gene: MeganTheeKilla_214 Start: 104311, Stop: 104511, Start Num: 10
Candidate Starts for MeganTheeKilla_214:
(Start: 7 @104278 has 2 MA's), (8, 104281), (Start: 10 @104311 has 13 MA's), (14, 104338), (16, 104467),

Gene: Moab_213 Start: 106936, Stop: 107133, Start Num: 10
Candidate Starts for Moab_213:
(3, 106888), (Start: 7 @106903 has 2 MA's), (8, 106906), (Start: 10 @106936 has 13 MA's), (14, 106963), (16, 107092),

Gene: Muntaha_198 Start: 100157, Stop: 100354, Start Num: 13
Candidate Starts for Muntaha_198:
(Start: 13 @100157 has 2 MA's),

Gene: Phredrick_214 Start: 103710, Stop: 103910, Start Num: 10
Candidate Starts for Phredrick_214:
(Start: 7 @103677 has 2 MA's), (8, 103680), (Start: 10 @103710 has 13 MA's), (14, 103737), (16, 103866),

Gene: SeresaTree_212 Start: 106110, Stop: 106304, Start Num: 10
Candidate Starts for SeresaTree_212:
(5, 106074), (6, 106077), (Start: 10 @106110 has 13 MA's), (14, 106134), (16, 106263), (17, 106290), (18, 106293),

Gene: SparkleGoddess_210 Start: 105693, Stop: 105896, Start Num: 10
Candidate Starts for SparkleGoddess_210:
(3, 105645), (Start: 10 @105693 has 13 MA's), (15, 105726), (16, 105852),

Gene: Stigma_209 Start: 105899, Stop: 106102, Start Num: 10
Candidate Starts for Stigma_209:
(3, 105851), (Start: 10 @105899 has 13 MA's), (15, 105932), (16, 106058),

Gene: Wakanda_198 Start: 100438, Stop: 100635, Start Num: 13
Candidate Starts for Wakanda_198:
(Start: 13 @100438 has 2 MA's), (17, 100615),