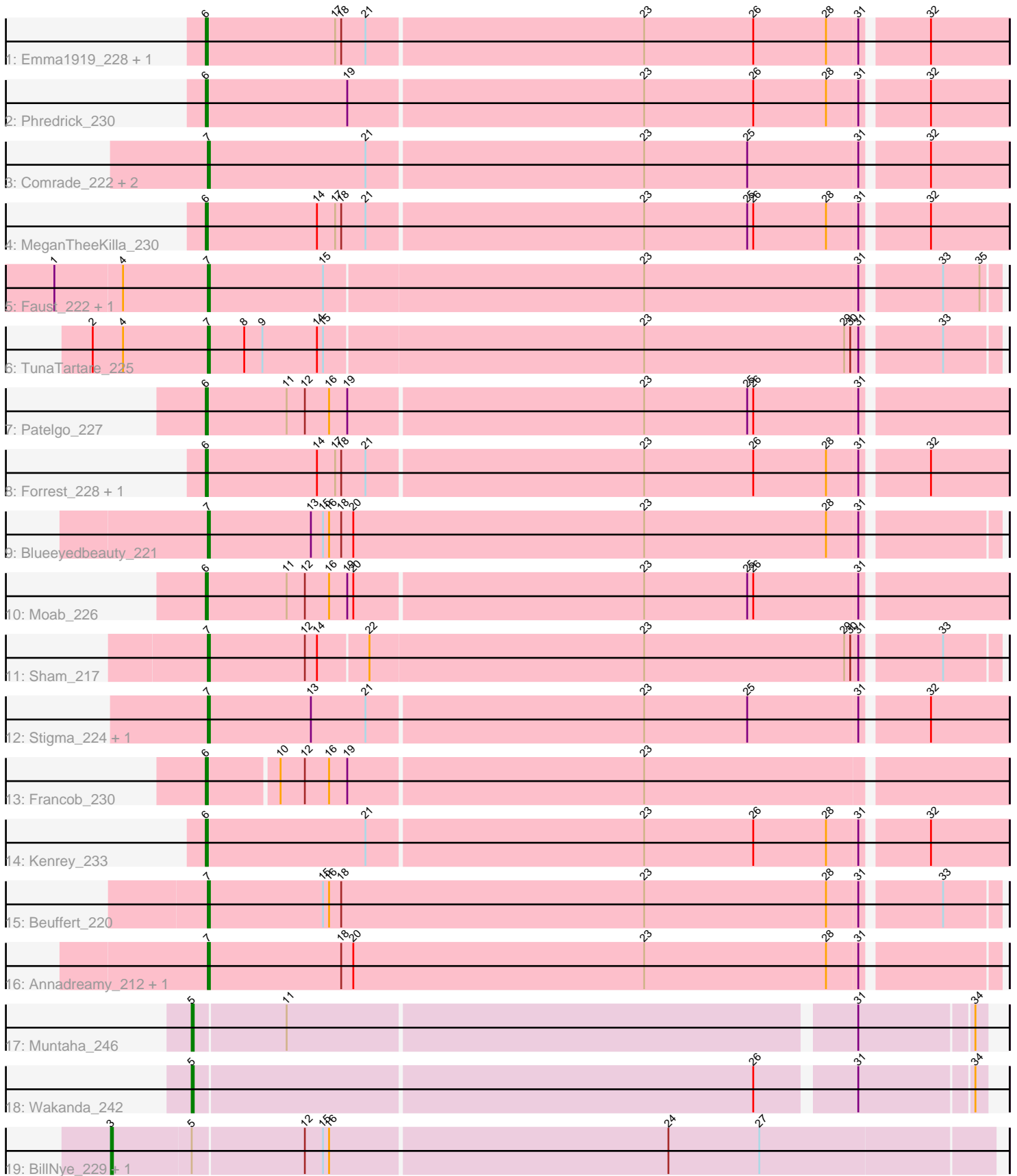


Pham 3281



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 3281 Report

This analysis was run 07/09/24 on database version 566.

Pham number 3281 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Emma1919_228, Gilson_224
- Track 2 : Phredrick_230
- Track 3 : Comrade_222, Karp_221, Belfort_225
- Track 4 : MeganTheeKilla_230
- Track 5 : Faust_222, SeresaTree_226
- Track 6 : TunaTartare_225
- Track 7 : Patelgo_227
- Track 8 : Forrest_228, Jada_227
- Track 9 : Blueeyedbeauty_221
- Track 10 : Moab_226
- Track 11 : Sham_217
- Track 12 : Stigma_224, SparkleGoddess_225
- Track 13 : Francob_230
- Track 14 : Kenrey_233
- Track 15 : Beuffert_220
- Track 16 : Annadreamy_212, Limpid_219
- Track 17 : Muntaha_246
- Track 18 : Wakanda_242
- Track 19 : BillNye_229, Circinus_229

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

The start number called the most often in the published annotations is 7, it was called in 12 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy_212, Belfort_225, Beuffert_220, Blueeyedbeauty_221, Comrade_222, Faust_222, Karp_221, Limpid_219, SeresaTree_226, Sham_217, SparkleGoddess_225, Stigma_224, TunaTartare_225,

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

-

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

- BillNye_229, Circinus_229, Emma1919_228, Forrest_228, Francob_230, Gilson_224, Jada_227, Kenrey_233, MeganTheeKilla_230, Moab_226, Muntaha_246, Patelgo_227, Phredrick_230, Wakanda_242,

Summary by start number:

Start 3:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye_229 (BK2), Circinus_229 (BK2),

Start 5:

- Found in 4 of 27 (14.8%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Muntaha_246 (BK2), Wakanda_242 (BK2),

Start 6:

- Found in 10 of 27 (37.0%) of genes in pham
- Manual Annotations of this start: 10 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emma1919_228 (BK1), Forrest_228 (BK1), Francob_230 (BK1), Gilson_224 (BK1), Jada_227 (BK1), Kenrey_233 (BK1), MeganTheeKilla_230 (BK1), Moab_226 (BK1), Patelgo_227 (BK1), Phredrick_230 (BK1),

Start 7:

- Found in 13 of 27 (48.1%) of genes in pham
- Manual Annotations of this start: 12 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_212 (BK1), Belfort_225 (BK1), Beuffert_220 (BK1), Blueeyedbeauty_221 (BK1), Comrade_222 (BK1), Faust_222 (BK1), Karp_221 (BK1), Limpid_219 (BK1), SeresaTree_226 (BK1), Sham_217 (BK1), SparkleGoddess_225 (BK1), Stigma_224 (BK1), TunaTartare_225 (BK1),

Summary by clusters:

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

Info for manual annotations of cluster BK1:

- Start number 6 was manually annotated 10 times for cluster BK1.
- Start number 7 was manually annotated 12 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 3 was manually annotated 2 times for cluster BK2.
- Start number 5 was manually annotated 2 times for cluster BK2.

Gene Information:

Gene: Annadreamy_212 Start: 106210, Stop: 106593, Start Num: 7

Candidate Starts for Annadreamy_212:

(Start: 7 @106210 has 12 MA's), (18, 106276), (20, 106282), (23, 106426), (28, 106516), (31, 106531),

Gene: Belfort_225 Start: 111244, Stop: 111630, Start Num: 7

Candidate Starts for Belfort_225:

(Start: 7 @111244 has 12 MA's), (21, 111322), (23, 111457), (25, 111508), (31, 111562), (32, 111592),

Gene: Beuffert_220 Start: 110377, Stop: 110760, Start Num: 7

Candidate Starts for Beuffert_220:

(Start: 7 @110377 has 12 MA's), (15, 110434), (16, 110437), (18, 110443), (23, 110593), (28, 110683), (31, 110698), (33, 110734),

Gene: BillNye_229 Start: 116775, Stop: 117203, Start Num: 3

Candidate Starts for BillNye_229:

(Start: 3 @116775 has 2 MA's), (Start: 5 @116814 has 2 MA's), (12, 116868), (15, 116877), (16, 116880), (24, 117045), (27, 117090),

Gene: Blueeyedbeauty_221 Start: 109910, Stop: 110293, Start Num: 7

Candidate Starts for Blueeyedbeauty_221:

(Start: 7 @109910 has 12 MA's), (13, 109961), (15, 109967), (16, 109970), (18, 109976), (20, 109982), (23, 110126), (28, 110216), (31, 110231),

Gene: Circinus_229 Start: 116363, Stop: 116791, Start Num: 3

Candidate Starts for Circinus_229:

(Start: 3 @116363 has 2 MA's), (Start: 5 @116402 has 2 MA's), (12, 116456), (15, 116465), (16, 116468), (24, 116633), (27, 116678),

Gene: Comrade_222 Start: 111443, Stop: 111829, Start Num: 7

Candidate Starts for Comrade_222:

(Start: 7 @111443 has 12 MA's), (21, 111521), (23, 111656), (25, 111707), (31, 111761), (32, 111791),

Gene: Emma1919_228 Start: 110013, Stop: 110399, Start Num: 6

Candidate Starts for Emma1919_228:

(Start: 6 @110013 has 10 MA's), (17, 110076), (18, 110079), (21, 110091), (23, 110226), (26, 110280), (28, 110316), (31, 110331), (32, 110361),

Gene: Faust_222 Start: 111558, Stop: 111938, Start Num: 7

Candidate Starts for Faust_222:

(1, 111483), (4, 111516), (Start: 7 @111558 has 12 MA's), (15, 111615), (23, 111771), (31, 111876), (33, 111912), (35, 111930),

Gene: Forrest_228 Start: 110978, Stop: 111364, Start Num: 6

Candidate Starts for Forrest_228:

(Start: 6 @110978 has 10 MA's), (14, 111032), (17, 111041), (18, 111044), (21, 111056), (23, 111191), (26, 111245), (28, 111281), (31, 111296), (32, 111326),

Gene: Francob_230 Start: 111006, Stop: 111389, Start Num: 6

Candidate Starts for Francob_230:

(Start: 6 @111006 has 10 MA's), (10, 111039), (12, 111051), (16, 111063), (19, 111072), (23, 111216),

Gene: Gilson_224 Start: 109539, Stop: 109925, Start Num: 6

Candidate Starts for Gilson_224:

(Start: 6 @109539 has 10 MA's), (17, 109602), (18, 109605), (21, 109617), (23, 109752), (26, 109806), (28, 109842), (31, 109857), (32, 109887),

Gene: Jada_227 Start: 110215, Stop: 110601, Start Num: 6

Candidate Starts for Jada_227:

(Start: 6 @110215 has 10 MA's), (14, 110269), (17, 110278), (18, 110281), (21, 110293), (23, 110428), (26, 110482), (28, 110518), (31, 110533), (32, 110563),

Gene: Karp_221 Start: 111610, Stop: 111996, Start Num: 7

Candidate Starts for Karp_221:

(Start: 7 @111610 has 12 MA's), (21, 111688), (23, 111823), (25, 111874), (31, 111928), (32, 111958),

Gene: Kenrey_233 Start: 111654, Stop: 112040, Start Num: 6

Candidate Starts for Kenrey_233:

(Start: 6 @111654 has 10 MA's), (21, 111732), (23, 111867), (26, 111921), (28, 111957), (31, 111972), (32, 112002),

Gene: Limpid_219 Start: 111523, Stop: 111906, Start Num: 7

Candidate Starts for Limpid_219:

(Start: 7 @111523 has 12 MA's), (18, 111589), (20, 111595), (23, 111739), (28, 111829), (31, 111844),

Gene: MeganTheeKilla_230 Start: 110410, Stop: 110796, Start Num: 6

Candidate Starts for MeganTheeKilla_230:

(Start: 6 @110410 has 10 MA's), (14, 110464), (17, 110473), (18, 110476), (21, 110488), (23, 110623), (25, 110674), (26, 110677), (28, 110713), (31, 110728), (32, 110758),

Gene: Moab_226 Start: 112277, Stop: 112663, Start Num: 6

Candidate Starts for Moab_226:

(Start: 6 @112277 has 10 MA's), (11, 112316), (12, 112325), (16, 112337), (19, 112346), (20, 112349), (23, 112490), (25, 112541), (26, 112544), (31, 112595),

Gene: Muntaha_246 Start: 117243, Stop: 117620, Start Num: 5

Candidate Starts for Muntaha_246:

(Start: 5 @117243 has 2 MA's), (11, 117288), (31, 117561), (34, 117615),

Gene: Patelgo_227 Start: 112707, Stop: 113093, Start Num: 6

Candidate Starts for Patelgo_227:

(Start: 6 @112707 has 10 MA's), (11, 112746), (12, 112755), (16, 112767), (19, 112776), (23, 112920), (25, 112971), (26, 112974), (31, 113025),

Gene: Phredrick_230 Start: 109834, Stop: 110220, Start Num: 6

Candidate Starts for Phredrick_230:

(Start: 6 @109834 has 10 MA's), (19, 109903), (23, 110047), (26, 110101), (28, 110137), (31, 110152), (32, 110182),

Gene: SeresaTree_226 Start: 111544, Stop: 111924, Start Num: 7

Candidate Starts for SeresaTree_226:

(1, 111469), (4, 111502), (Start: 7 @111544 has 12 MA's), (15, 111601), (23, 111757), (31, 111862), (33, 111898), (35, 111916),

Gene: Sham_217 Start: 112424, Stop: 112804, Start Num: 7

Candidate Starts for Sham_217:

(Start: 7 @112424 has 12 MA's), (12, 112472), (14, 112478), (22, 112502), (23, 112637), (29, 112736), (30, 112739), (31, 112742), (33, 112778),

Gene: SparkleGoddess_225 Start: 111671, Stop: 112057, Start Num: 7

Candidate Starts for SparkleGoddess_225:

(Start: 7 @111671 has 12 MA's), (13, 111722), (21, 111749), (23, 111884), (25, 111935), (31, 111989), (32, 112019),

Gene: Stigma_224 Start: 111877, Stop: 112263, Start Num: 7

Candidate Starts for Stigma_224:

(Start: 7 @111877 has 12 MA's), (13, 111928), (21, 111955), (23, 112090), (25, 112141), (31, 112195), (32, 112225),

Gene: TunaTartare_225 Start: 114737, Stop: 115117, Start Num: 7

Candidate Starts for TunaTartare_225:

(2, 114680), (4, 114695), (Start: 7 @114737 has 12 MA's), (8, 114755), (9, 114764), (14, 114791), (15, 114794), (23, 114950), (29, 115049), (30, 115052), (31, 115055), (33, 115091),

Gene: Wakanda_242 Start: 116231, Stop: 116608, Start Num: 5

Candidate Starts for Wakanda_242:

(Start: 5 @116231 has 2 MA's), (26, 116504), (31, 116549), (34, 116603),