

Pham 221426



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 221426 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221426 has 66 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Scheme_160, Tribute_156, BlueOtter_156, Leo04_158, PacManQ_156, HangryHippo_156, Cross_157, Lululemon_156, Sushi23_156, Cursive_155, Watermoore_156, Samisti12_158, Cadmus_159, Daubenski_154, Larnav_157
- Track 2 : Evy_152, Jay2Jay_161, Targaryen_157, Braelyn_157, Warpy_160
- Track 3 : Peebs_154
- Track 4 : Shuckle_158
- Track 5 : Marsus_163
- Track 6 : Bmoc_160
- Track 7 : Mugiwara_172, Karimac_165
- Track 8 : CeilingFan_168, JimJam_172, TomSawyer_169, Amabiko_167, Rikishi_173, Spelly_169, IchabodCrane_161, Wipeout_160, KentuckyRacer_170, MindFlayer_161
- Track 9 : Wofford_162
- Track 10 : Gibbi_174, Birchlyn_165, Enygma_168
- Track 11 : Elmer_171
- Track 12 : Yaboi_164, Stanimal_161
- Track 13 : Spilled_171
- Track 14 : StarPlatinum_172
- Track 15 : SeresaTree_240
- Track 16 : Francob_240, Patelgo_239, Moab_240
- Track 17 : Belfort_235, Stigma_233, Westy_236, SparkleGoddess_235
- Track 18 : Faust_236
- Track 19 : Emma1919_239, MeganTheeKilla_240, Kenrey_243
- Track 20 : Karp_232
- Track 21 : Gilson_235
- Track 22 : Karp_231
- Track 23 : Phredrick_240
- Track 24 : Phredrick_239
- Track 25 : Circinus_184, BillNye_183
- Track 26 : Wakanda_206
- Track 27 : Muntaha_208

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

The start number called the most often in the published annotations is 12, it was called in 42 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort_235, BillNye_183, Birchlyn_165, BlueOtter_156, Braelyn_157, Cadmus_159, Circinus_184, Cross_157, Cursive_155, Daubenski_154, Emma1919_239, Enygma_168, Evy_152, Faust_236, Francob_240, Gibbi_174, Gilson_235, HangryHippo_156, Jay2Jay_161, Karimac_165, Karp_232, Kenrey_243, Larnav_157, Leo04_158, Lululemon_156, MeganTheeKilla_240, Moab_240, Mugiwara_172, Muntaha_208, PacManQ_156, Patelgo_239, Phredrick_240, Samisti12_158, Scheme_160, SeresaTree_240, Shuckle_158, SparkleGoddess_235, Stanimal_161, StarPlatinum_172, Stigma_233, Sushi23_156, Targaryen_157, Tribute_156, Wakanda_206, Warpy_160, Watermoore_156, Westy_236, Wofford_162, Yaboi_164,

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

- Peebs_154,

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

- Amabiko_167, Bmoc_160, CeilingFan_168, Elmer_171, IchabodCrane_161, JimJam_172, Karp_231, KentuckyRacer_170, Marsus_163, MindFlayer_161, Phredrick_239, Rikishi_173, Spelly_169, Spilled_171, TomSawyer_169, Wipeout_160,

Summary by start number:

Start 10:

- Found in 16 of 66 (24.2%) of genes in pham
- Manual Annotations of this start: 1 of 57
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Peebs_154 (BE1),

Start 11:

- Found in 16 of 66 (24.2%) of genes in pham
- Manual Annotations of this start: 14 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amabiko_167 (BE2), Bmoc_160 (BE1), CeilingFan_168 (BE2), Elmer_171 (BE2), IchabodCrane_161 (BE2), JimJam_172 (BE2), Karp_231 (BK1), KentuckyRacer_170 (BE2), Marsus_163 (BE1), MindFlayer_161 (BE2), Phredrick_239 (BK1), Rikishi_173 (BE2), Spelly_169 (BE2), Spilled_171 (BE2), TomSawyer_169 (BE2), Wipeout_160 (BE2),

Start 12:

- Found in 50 of 66 (75.8%) of genes in pham
- Manual Annotations of this start: 42 of 57
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Belfort_235 (BK1), BillNye_183 (BK2), Birchlyn_165 (BE2), BlueOtter_156 (BE1), Braelyn_157 (BE1), Cadmus_159 (BE1), Circinus_184 (BK2), Cross_157 (BE1), Cursive_155 (BE1), Daubenski_154 (BE1), Emma1919_239 (BK1), Enygma_168 (BE2), Evy_152 (BE1), Faust_236 (BK1), Francob_240 (BK1), Gibbi_174 (BE2), Gilson_235 (BK1), HangryHippo_156 (BE1), Jay2Jay_161 (BE1), Karimac_165 (BE2), Karp_232 (BK1), Kenrey_243 (BK1), Larnav_157 (BE1), Leo04_158 (BE1), Lululemon_156 (BE1), MeganTheeKilla_240 (BK1), Moab_240 (BK1), Mugiwara_172 (BE2), Muntaha_208 (BK2), PacManQ_156

(BE1), Patelgo_239 (BK1), Phredrick_240 (BK1), Samisti12_158 (BE1), Scheme_160 (BE1), SeresaTree_240 (BK1), Shuckle_158 (BE1), SparkleGoddess_235 (BK1), Stanimal_161 (BE2), StarPlatinum_172 (BE2), Stigma_233 (BK1), Sushi23_156 (BE1), Targaryen_157 (BE1), Tribute_156 (BE1), Wakanda_206 (BK2), Warpy_160 (BE1), Watermoore_156 (BE1), Westy_236 (BK1), Wofford_162 (BE2), Yaboi_164 (BE2),

Summary by clusters:

There are 4 clusters represented in this pham: BE2, BE1, BK1, BK2,

Info for manual annotations of cluster BE1:

- Start number 10 was manually annotated 1 time for cluster BE1.
- Start number 11 was manually annotated 1 time for cluster BE1.
- Start number 12 was manually annotated 18 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 11 was manually annotated 11 times for cluster BE2.
- Start number 12 was manually annotated 7 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 11 was manually annotated 2 times for cluster BK1.
- Start number 12 was manually annotated 13 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 12 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: Amabiko_167 Start: 91184, Stop: 91336, Start Num: 11

Candidate Starts for Amabiko_167:

(Start: 11 @91184 has 14 MA's), (16, 91238), (21, 91292), (22, 91322),

Gene: Belfort_235 Start: 114427, Stop: 114582, Start Num: 12

Candidate Starts for Belfort_235:

(Start: 12 @114427 has 42 MA's), (13, 114433),

Gene: BillNye_183 Start: 100469, Stop: 100624, Start Num: 12

Candidate Starts for BillNye_183:

(Start: 12 @100469 has 42 MA's),

Gene: Birchlyn_165 Start: 88816, Stop: 88962, Start Num: 12

Candidate Starts for Birchlyn_165:

(Start: 12 @88816 has 42 MA's), (18, 88867), (23, 88954),

Gene: BlueOtter_156 Start: 92216, Stop: 92359, Start Num: 12

Candidate Starts for BlueOtter_156:

(Start: 10 @92186 has 1 MA's), (Start: 12 @92216 has 42 MA's),

Gene: Bmoc_160 Start: 90526, Stop: 90681, Start Num: 11

Candidate Starts for Bmoc_160:

(Start: 11 @90526 has 14 MA's),

Gene: Braelyn_157 Start: 90379, Stop: 90525, Start Num: 12

Candidate Starts for Braelyn_157:

(Start: 12 @90379 has 42 MA's), (23, 90517),

Gene: Cadmus_159 Start: 90904, Stop: 91047, Start Num: 12

Candidate Starts for Cadmus_159:

(Start: 10 @90874 has 1 MA's), (Start: 12 @90904 has 42 MA's),

Gene: CeilingFan_168 Start: 91693, Stop: 91845, Start Num: 11

Candidate Starts for CeilingFan_168:

(Start: 11 @91693 has 14 MA's), (16, 91747), (21, 91801), (22, 91831),

Gene: Circinus_184 Start: 100276, Stop: 100431, Start Num: 12

Candidate Starts for Circinus_184:

(Start: 12 @100276 has 42 MA's),

Gene: Cross_157 Start: 92217, Stop: 92360, Start Num: 12

Candidate Starts for Cross_157:

(Start: 10 @92187 has 1 MA's), (Start: 12 @92217 has 42 MA's),

Gene: Cursive_155 Start: 90426, Stop: 90569, Start Num: 12

Candidate Starts for Cursive_155:

(Start: 10 @90396 has 1 MA's), (Start: 12 @90426 has 42 MA's),

Gene: Daubenski_154 Start: 92141, Stop: 92284, Start Num: 12

Candidate Starts for Daubenski_154:

(Start: 10 @92111 has 1 MA's), (Start: 12 @92141 has 42 MA's),

Gene: Elmer_171 Start: 94744, Stop: 94899, Start Num: 11

Candidate Starts for Elmer_171:

(8, 94666), (9, 94711), (Start: 11 @94744 has 14 MA's), (14, 94756),

Gene: Emma1919_239 Start: 113655, Stop: 113810, Start Num: 12

Candidate Starts for Emma1919_239:

(Start: 12 @113655 has 42 MA's),

Gene: Enygma_168 Start: 93831, Stop: 93977, Start Num: 12

Candidate Starts for Enygma_168:

(Start: 12 @93831 has 42 MA's), (18, 93882), (23, 93969),

Gene: Evy_152 Start: 91332, Stop: 91478, Start Num: 12

Candidate Starts for Evy_152:

(Start: 12 @91332 has 42 MA's), (23, 91470),

Gene: Faust_236 Start: 115476, Stop: 115625, Start Num: 12

Candidate Starts for Faust_236:

(Start: 12 @115476 has 42 MA's), (15, 115518), (17, 115524),

Gene: Francob_240 Start: 114029, Stop: 114175, Start Num: 12

Candidate Starts for Francob_240:

(Start: 12 @114029 has 42 MA's), (15, 114071),

Gene: Gibbi_174 Start: 91754, Stop: 91900, Start Num: 12

Candidate Starts for Gibbi_174:

(Start: 12 @91754 has 42 MA's), (18, 91805), (23, 91892),

Gene: Gilson_235 Start: 113178, Stop: 113324, Start Num: 12

Candidate Starts for Gilson_235:

(Start: 12 @113178 has 42 MA's), (15, 113220), (19, 113235),

Gene: HangryHippo_156 Start: 92216, Stop: 92359, Start Num: 12

Candidate Starts for HangryHippo_156:

(Start: 10 @92186 has 1 MA's), (Start: 12 @92216 has 42 MA's),

Gene: IchabodCrane_161 Start: 90885, Stop: 91037, Start Num: 11

Candidate Starts for IchabodCrane_161:

(Start: 11 @90885 has 14 MA's), (16, 90939), (21, 90993), (22, 91023),

Gene: Jay2Jay_161 Start: 92146, Stop: 92292, Start Num: 12

Candidate Starts for Jay2Jay_161:

(Start: 12 @92146 has 42 MA's), (23, 92284),

Gene: JimJam_172 Start: 92989, Stop: 93141, Start Num: 11

Candidate Starts for JimJam_172:

(Start: 11 @92989 has 14 MA's), (16, 93043), (21, 93097), (22, 93127),

Gene: Karimac_165 Start: 91422, Stop: 91568, Start Num: 12

Candidate Starts for Karimac_165:

(Start: 12 @91422 has 42 MA's), (18, 91473),

Gene: Karp_232 Start: 114942, Stop: 115088, Start Num: 12

Candidate Starts for Karp_232:

(Start: 12 @114942 has 42 MA's), (15, 114984),

Gene: Karp_231 Start: 114793, Stop: 114945, Start Num: 11

Candidate Starts for Karp_231:

(Start: 11 @114793 has 14 MA's), (13, 114799), (20, 114892), (22, 114931),

Gene: Kenrey_243 Start: 114848, Stop: 115003, Start Num: 12

Candidate Starts for Kenrey_243:

(Start: 12 @114848 has 42 MA's),

Gene: KentuckyRacer_170 Start: 92538, Stop: 92690, Start Num: 11

Candidate Starts for KentuckyRacer_170:

(Start: 11 @92538 has 14 MA's), (16, 92592), (21, 92646), (22, 92676),

Gene: Larnav_157 Start: 92191, Stop: 92334, Start Num: 12

Candidate Starts for Larnav_157:

(Start: 10 @92161 has 1 MA's), (Start: 12 @92191 has 42 MA's),

Gene: Leo04_158 Start: 92716, Stop: 92859, Start Num: 12

Candidate Starts for Leo04_158:

(Start: 10 @92686 has 1 MA's), (Start: 12 @92716 has 42 MA's),

Gene: Lululemon_156 Start: 91597, Stop: 91740, Start Num: 12
Candidate Starts for Lululemon_156:
(Start: 10 @91567 has 1 MA's), (Start: 12 @91597 has 42 MA's),

Gene: Marsus_163 Start: 90404, Stop: 90559, Start Num: 11
Candidate Starts for Marsus_163:
(Start: 11 @90404 has 14 MA's), (22, 90545),

Gene: MeganTheeKilla_240 Start: 113828, Stop: 113983, Start Num: 12
Candidate Starts for MeganTheeKilla_240:
(Start: 12 @113828 has 42 MA's),

Gene: MindFlayer_161 Start: 90792, Stop: 90944, Start Num: 11
Candidate Starts for MindFlayer_161:
(Start: 11 @90792 has 14 MA's), (16, 90846), (21, 90900), (22, 90930),

Gene: Moab_240 Start: 116109, Stop: 116255, Start Num: 12
Candidate Starts for Moab_240:
(Start: 12 @116109 has 42 MA's), (15, 116151),

Gene: Mugiwara_172 Start: 92050, Stop: 92196, Start Num: 12
Candidate Starts for Mugiwara_172:
(Start: 12 @92050 has 42 MA's), (18, 92101),

Gene: Muntaha_208 Start: 103956, Stop: 104105, Start Num: 12
Candidate Starts for Muntaha_208:
(Start: 12 @103956 has 42 MA's), (15, 103998), (17, 104004),

Gene: PacManQ_156 Start: 91597, Stop: 91740, Start Num: 12
Candidate Starts for PacManQ_156:
(Start: 10 @91567 has 1 MA's), (Start: 12 @91597 has 42 MA's),

Gene: Patelgo_239 Start: 116350, Stop: 116496, Start Num: 12
Candidate Starts for Patelgo_239:
(Start: 12 @116350 has 42 MA's), (15, 116392),

Gene: Peebs_154 Start: 91865, Stop: 92038, Start Num: 10
Candidate Starts for Peebs_154:
(Start: 10 @91865 has 1 MA's), (Start: 12 @91895 has 42 MA's),

Gene: Phredrick_240 Start: 112960, Stop: 113106, Start Num: 12
Candidate Starts for Phredrick_240:
(Start: 12 @112960 has 42 MA's), (15, 113002), (19, 113017),

Gene: Phredrick_239 Start: 112811, Stop: 112963, Start Num: 11
Candidate Starts for Phredrick_239:
(Start: 11 @112811 has 14 MA's), (20, 112910),

Gene: Rikishi_173 Start: 91551, Stop: 91703, Start Num: 11
Candidate Starts for Rikishi_173:
(Start: 11 @91551 has 14 MA's), (16, 91605), (21, 91659), (22, 91689),

Gene: Samisti12_158 Start: 93279, Stop: 93422, Start Num: 12

Candidate Starts for Samisti12_158:

(Start: 10 @93249 has 1 MA's), (Start: 12 @93279 has 42 MA's),

Gene: Scheme_160 Start: 93459, Stop: 93602, Start Num: 12

Candidate Starts for Scheme_160:

(Start: 10 @93429 has 1 MA's), (Start: 12 @93459 has 42 MA's),

Gene: SeresaTree_240 Start: 115701, Stop: 115850, Start Num: 12

Candidate Starts for SeresaTree_240:

(Start: 12 @115701 has 42 MA's), (15, 115743), (17, 115749),

Gene: Shuckle_158 Start: 91432, Stop: 91578, Start Num: 12

Candidate Starts for Shuckle_158:

(Start: 12 @91432 has 42 MA's),

Gene: SparkleGoddess_235 Start: 114852, Stop: 115007, Start Num: 12

Candidate Starts for SparkleGoddess_235:

(Start: 12 @114852 has 42 MA's), (13, 114858),

Gene: Spelly_169 Start: 91108, Stop: 91260, Start Num: 11

Candidate Starts for Spelly_169:

(Start: 11 @91108 has 14 MA's), (16, 91162), (21, 91216), (22, 91246),

Gene: Spilled_171 Start: 91721, Stop: 91876, Start Num: 11

Candidate Starts for Spilled_171:

(Start: 11 @91721 has 14 MA's), (21, 91829),

Gene: Stanimal_161 Start: 91588, Stop: 91734, Start Num: 12

Candidate Starts for Stanimal_161:

(Start: 12 @91588 has 42 MA's), (23, 91726),

Gene: StarPlatinum_172 Start: 93659, Stop: 93805, Start Num: 12

Candidate Starts for StarPlatinum_172:

(Start: 12 @93659 has 42 MA's), (18, 93710), (23, 93797),

Gene: Stigma_233 Start: 114817, Stop: 114972, Start Num: 12

Candidate Starts for Stigma_233:

(Start: 12 @114817 has 42 MA's), (13, 114823),

Gene: Sushi23_156 Start: 92252, Stop: 92395, Start Num: 12

Candidate Starts for Sushi23_156:

(Start: 10 @92222 has 1 MA's), (Start: 12 @92252 has 42 MA's),

Gene: Targaryen_157 Start: 92467, Stop: 92613, Start Num: 12

Candidate Starts for Targaryen_157:

(Start: 12 @92467 has 42 MA's), (23, 92605),

Gene: TomSawyer_169 Start: 92657, Stop: 92809, Start Num: 11

Candidate Starts for TomSawyer_169:

(Start: 11 @92657 has 14 MA's), (16, 92711), (21, 92765), (22, 92795),

Gene: Tribute_156 Start: 92422, Stop: 92565, Start Num: 12

Candidate Starts for Tribute_156:

(Start: 10 @92392 has 1 MA's), (Start: 12 @92422 has 42 MA's),

Gene: Wakanda_206 Start: 103585, Stop: 103734, Start Num: 12

Candidate Starts for Wakanda_206:

(1, 103204), (2, 103258), (3, 103261), (4, 103384), (5, 103387), (6, 103390), (7, 103468), (Start: 12 @103585 has 42 MA's), (15, 103627), (17, 103633),

Gene: Warpy_160 Start: 91805, Stop: 91951, Start Num: 12

Candidate Starts for Warpy_160:

(Start: 12 @91805 has 42 MA's), (23, 91943),

Gene: Watermoore_156 Start: 92788, Stop: 92931, Start Num: 12

Candidate Starts for Watermoore_156:

(Start: 10 @92758 has 1 MA's), (Start: 12 @92788 has 42 MA's),

Gene: Westy_236 Start: 115606, Stop: 115761, Start Num: 12

Candidate Starts for Westy_236:

(Start: 12 @115606 has 42 MA's), (13, 115612),

Gene: Wipeout_160 Start: 91987, Stop: 92139, Start Num: 11

Candidate Starts for Wipeout_160:

(Start: 11 @91987 has 14 MA's), (16, 92041), (21, 92095), (22, 92125),

Gene: Wofford_162 Start: 93905, Stop: 94060, Start Num: 12

Candidate Starts for Wofford_162:

(Start: 12 @93905 has 42 MA's), (14, 93917),

Gene: Yaboi_164 Start: 91162, Stop: 91308, Start Num: 12

Candidate Starts for Yaboi_164:

(Start: 12 @91162 has 42 MA's), (23, 91300),