Pham 291461

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 291461 Report

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

Pham number 291461 has 26 members, 2 are drafts.

Phages represented in each track:
• Track 1 : DeluluLabubu_268, Forrest_265
• Track 2 : Gilson_266, Maupel_272
• Track 3 : Limpid_269, Annadreamy_263
• Track 4 : MeganTheeKilla_268, Francob_269
• Track 5 : Phredrick_272
• Track 6 : Karp_268, Belfort_268
• Track 7 : SeresaTree_277
• Track 8 : Westy_269
• Track 9 : Sham_259
• Track 10 : Stigma_265
• Track 11 : Kenrey_272
• Track 12 : Comrade_263, SparkleGoddess_266
• Track 13 : Moab_267, Patelgo_270
• Track 14 : Beuffert_273
• Track 15 : Jada_266
• Track 16 : Blueeyedbeauty_275
• Track 17 : Emma1919_267
• Track 18 : Faust_272
• Track 19 : TunaTartare_265

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

The start number called the most often in the published annotations is 13, it was called in 16 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Belfort_268, Beuffert_273, Blueeyedbeauty_275, Comrade_263, DeluluLabubu_268, Emma1919_267, Forrest_265, Francob_269, Karp_268, Kenrey_272, MeganTheeKilla_268, Moab_267, Patelgo_270, Sham_259, SparkleGoddess_266, Westy_269,

Genes that have the "Most Annotated" start but do not call it:
• Annadreamy_263, Faust_272, Gilson_266, Jada_266, Limpid_269, Maupel_272, Phredrick_272, SeresaTree_277, Stigma_265,

Genes that do not have the "Most Annotated" start:
• TunaTartare_265,

Summary by start number:

Start 10:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TunaTartare_265 (BK1),

Start 12:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Phredrick_272 (BK1),

Start 13:
• Found in 25 of 26 (96.2%) of genes in pham
• Manual Annotations of this start: 16 of 24
• Called 64.0% of time when present
• Phage (with cluster) where this start called: Belfort_268 (BK1), Beuffert_273 (BK1), Blueeyedbeauty_275 (BK1), Comrade_263 (BK1), DeluluLabubu_268 (BK1), Emma1919_267 (BK1), Forrest_265 (BK1), Francob_269 (BK1), Karp_268 (BK1), Kenrey_272 (BK1), MeganTheeKilla_268 (BK1), Moab_267 (BK1), Patelgo_270 (BK1), Sham_259 (BK1), SparkleGoddess_266 (BK1), Westy_269 (BK1),

Start 21:
• Found in 16 of 26 (61.5%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 18.8% of time when present
• Phage (with cluster) where this start called: Annadreamy_263 (BK1), Jada_266 (BK1), Limpid_269 (BK1),

Start 22:
• Found in 4 of 26 (15.4%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: SeresaTree_277 (BK1),

Start 25:
• Found in 17 of 26 (65.4%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 17.6% of time when present
• Phage (with cluster) where this start called: Gilson_266 (BK1), Maupel_272 (BK1), Stigma_265 (BK1),

Start 27:
• Found in 7 of 26 (26.9%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Faust_272 (BK1),

Summary by clusters:

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:
•Start number 10 was manually annotated 1 time for cluster BK1.
•Start number 12 was manually annotated 1 time for cluster BK1.
•Start number 13 was manually annotated 16 times for cluster BK1.
•Start number 21 was manually annotated 3 times for cluster BK1.
•Start number 25 was manually annotated 2 times for cluster BK1.
•Start number 27 was manually annotated 1 time for cluster BK1.

Gene Information:
Gene: Annadreamy_263 Start: 124490, Stop: 124852, Start Num: 21
Candidate Starts for Annadreamy_263:
(3, 124253), (5, 124283), (6, 124289), (7, 124337), (Start: 13 @124397 has 16 MA's), (Start: 21 @124490 has 3 MA's), (31, 124604), (34, 124643), (35, 124649), (42, 124724), (46, 124766), (47, 124772), (50, 124811), (51, 124817), (52, 124820),

Gene: Belfort_268 Start: 127669, Stop: 128160, Start Num: 13
Candidate Starts for Belfort_268:
(Start: 13 @127669 has 16 MA's), (20, 127756), (22, 127768), (Start: 25 @127813 has 2 MA's), (Start: 27 @127840 has 1 MA's), (37, 127969), (45, 128074), (49, 128098),

Gene: Beuffert_273 Start: 128615, Stop: 129061, Start Num: 13
Candidate Starts for Beuffert_273:
(Start: 13 @128615 has 16 MA's), (15, 128663), (16, 128675), (17, 128687), (24, 128741), (31, 128822), (40, 128906), (41, 128921), (43, 128942),

Gene: Blueeyedbeauty_275 Start: 129181, Stop: 129603, Start Num: 13
Candidate Starts for Blueeyedbeauty_275:
(1, 128965), (2, 128998), (6, 129073), (7, 129121), (Start: 13 @129181 has 16 MA's), (26, 129340), (29, 129364), (33, 129394), (44, 129499),

Gene: Comrade_263 Start: 127808, Stop: 128215, Start Num: 13
Candidate Starts for Comrade_263:
(Start: 13 @127808 has 16 MA's), (Start: 21 @127901 has 3 MA's), (Start: 25 @127952 has 2 MA's), (37, 128024), (45, 128129), (49, 128153),

Gene: DeluluLabubu_268 Start: 127361, Stop: 127777, Start Num: 13
Candidate Starts for DeluluLabubu_268:
(7, 127301), (11, 127334), (Start: 13 @127361 has 16 MA's), (19, 127439), (20, 127448), (Start: 21 @127454 has 3 MA's), (24, 127487), (Start: 25 @127505 has 2 MA's), (28, 127532), (37, 127577), (46, 127688), (52, 127745),

Gene: Emma1919_267 Start: 126830, Stop: 127246, Start Num: 13
Candidate Starts for Emma1919_267:
(7, 126770), (11, 126803), (Start: 13 @126830 has 16 MA's), (19, 126908), (20, 126917), (Start: 21 @126923 has 3 MA's), (24, 126956), (Start: 25 @126974 has 2 MA's), (28, 127001), (44, 127139), (52,

127214),

Gene: Faust_272 Start: 129519, Stop: 129806, Start Num: 27
Candidate Starts for Faust_272:
(3, 129204), (6, 129240), (7, 129288), (Start: 13 @129348 has 16 MA's), (23, 129465), (Start: 25 @129492 has 2 MA's), (Start: 27 @129519 has 1 MA's), (31, 129567), (36, 129606), (37, 129609), (39, 129621), (44, 129693), (48, 129717), (53, 129774), (56, 129798),

Gene: Forrest_265 Start: 127267, Stop: 127683, Start Num: 13
Candidate Starts for Forrest_265:
(7, 127207), (11, 127240), (Start: 13 @127267 has 16 MA's), (19, 127345), (20, 127354), (Start: 21 @127360 has 3 MA's), (24, 127393), (Start: 25 @127411 has 2 MA's), (28, 127438), (37, 127483), (46, 127594), (52, 127651),

Gene: Francob_269 Start: 127555, Stop: 127971, Start Num: 13
Candidate Starts for Francob_269:
(7, 127495), (11, 127528), (Start: 13 @127555 has 16 MA's), (19, 127633), (20, 127642), (Start: 21 @127648 has 3 MA's), (24, 127681), (Start: 25 @127699 has 2 MA's), (28, 127726), (37, 127771), (44, 127864), (52, 127939),

Gene: Gilson_266 Start: 127236, Stop: 127508, Start Num: 25
Candidate Starts for Gilson_266:
(7, 127032), (11, 127065), (Start: 13 @127092 has 16 MA's), (19, 127170), (20, 127179), (Start: 21 @127185 has 3 MA's), (24, 127218), (Start: 25 @127236 has 2 MA's), (28, 127263), (37, 127308), (44, 127401), (52, 127476),

Gene: Jada_266 Start: 126600, Stop: 126923, Start Num: 21
Candidate Starts for Jada_266:
(7, 126447), (11, 126480), (Start: 13 @126507 has 16 MA's), (19, 126585), (20, 126594), (Start: 21 @126600 has 3 MA's), (24, 126633), (Start: 25 @126651 has 2 MA's), (28, 126678), (37, 126723), (46, 126834), (52, 126891),

Gene: Karp_268 Start: 129266, Stop: 129757, Start Num: 13
Candidate Starts for Karp_268:
(Start: 13 @129266 has 16 MA's), (20, 129353), (22, 129365), (Start: 25 @129410 has 2 MA's), (Start: 27 @129437 has 1 MA's), (37, 129566), (45, 129671), (49, 129695),

Gene: Kenrey_272 Start: 128308, Stop: 128724, Start Num: 13
Candidate Starts for Kenrey_272:
(7, 128248), (11, 128281), (Start: 12 @128302 has 1 MA's), (Start: 13 @128308 has 16 MA's), (Start: 21 @128401 has 3 MA's), (Start: 25 @128452 has 2 MA's), (28, 128479), (37, 128524), (38, 128527), (46, 128635), (52, 128692),

Gene: Limpid_269 Start: 129803, Stop: 130165, Start Num: 21
Candidate Starts for Limpid_269:
(3, 129566), (5, 129596), (6, 129602), (7, 129650), (Start: 13 @129710 has 16 MA's), (Start: 21 @129803 has 3 MA's), (31, 129917), (34, 129956), (35, 129962), (42, 130037), (46, 130079), (47, 130085), (50, 130124), (51, 130130), (52, 130133),

Gene: Maupel_272 Start: 126429, Stop: 126701, Start Num: 25
Candidate Starts for Maupel_272:
(7, 126225), (11, 126258), (Start: 13 @126285 has 16 MA's), (19, 126363), (20, 126372), (Start: 21 @126378 has 3 MA's), (24, 126411), (Start: 25 @126429 has 2 MA's), (28, 126456), (37, 126501), (44,

126594), (52, 126669),

Gene: MeganTheeKilla_268 Start: 126906, Stop: 127322, Start Num: 13
Candidate Starts for MeganTheeKilla_268:
(7, 126846), (11, 126879), (Start: 13 @126906 has 16 MA's), (19, 126984), (20, 126993), (Start: 21 @126999 has 3 MA's), (24, 127032), (Start: 25 @127050 has 2 MA's), (28, 127077), (37, 127122), (44, 127215), (52, 127290),

Gene: Moab_267 Start: 128131, Stop: 128589, Start Num: 13
Candidate Starts for Moab_267:
(Start: 13 @128131 has 16 MA's), (14, 128161), (18, 128203), (19, 128209), (20, 128218), (Start: 21 @128224 has 3 MA's), (24, 128257), (Start: 27 @128302 has 1 MA's), (31, 128350), (32, 128362), (40, 128434), (41, 128449), (43, 128470), (50, 128536), (54, 128566), (55, 128578),

Gene: Patelgo_270 Start: 129064, Stop: 129522, Start Num: 13
Candidate Starts for Patelgo_270:
(Start: 13 @129064 has 16 MA's), (14, 129094), (18, 129136), (19, 129142), (20, 129151), (Start: 21 @129157 has 3 MA's), (24, 129190), (Start: 27 @129235 has 1 MA's), (31, 129283), (32, 129295), (40, 129367), (41, 129382), (43, 129403), (50, 129469), (54, 129499), (55, 129511),

Gene: Phredrick_272 Start: 127622, Stop: 128044, Start Num: 12
Candidate Starts for Phredrick_272:
(7, 127568), (11, 127601), (Start: 12 @127622 has 1 MA's), (Start: 13 @127628 has 16 MA's), (20, 127715), (Start: 25 @127772 has 2 MA's), (38, 127847), (46, 127955), (52, 128012),

Gene: SeresaTree_277 Start: 129668, Stop: 130027, Start Num: 22
Candidate Starts for SeresaTree_277:
(3, 129425), (6, 129461), (7, 129509), (Start: 13 @129569 has 16 MA's), (20, 129656), (22, 129668), (Start: 27 @129740 has 1 MA's), (31, 129788), (36, 129827), (37, 129830), (39, 129842), (44, 129914), (48, 129938), (53, 129995), (56, 130019),

Gene: Sham_259 Start: 129037, Stop: 129456, Start Num: 13
Candidate Starts for Sham_259:
(9, 129001), (Start: 13 @129037 has 16 MA's), (26, 129196), (30, 129223), (33, 129244), (37, 129256), (44, 129349), (46, 129367),

Gene: SparkleGoddess_266 Start: 128535, Stop: 128942, Start Num: 13
Candidate Starts for SparkleGoddess_266:
(Start: 13 @128535 has 16 MA's), (Start: 21 @128628 has 3 MA's), (Start: 25 @128679 has 2 MA's), (37, 128751), (45, 128856), (49, 128880),

Gene: Stigma_265 Start: 128392, Stop: 128655, Start Num: 25
Candidate Starts for Stigma_265:
(Start: 13 @128248 has 16 MA's), (Start: 21 @128341 has 3 MA's), (Start: 25 @128392 has 2 MA's), (37, 128464), (45, 128569), (49, 128593),

Gene: TunaTartare_265 Start: 129572, Stop: 130045, Start Num: 10
Candidate Starts for TunaTartare_265:
(4, 129479), (8, 129566), (Start: 10 @129572 has 1 MA's), (37, 129845), (52, 130013),

Gene: Westy_269 Start: 129072, Stop: 129527, Start Num: 13
Candidate Starts for Westy_269:

(Start: 13 @129072 has 16 MA's), (20, 129159), (22, 129171), (24, 129198), (Start: 25 @129216 has 2 MA's), (Start: 27 @129243 has 1 MA's), (31, 129291), (32, 129303), (40, 129375), (41, 129390), (50, 129477), (54, 129507),