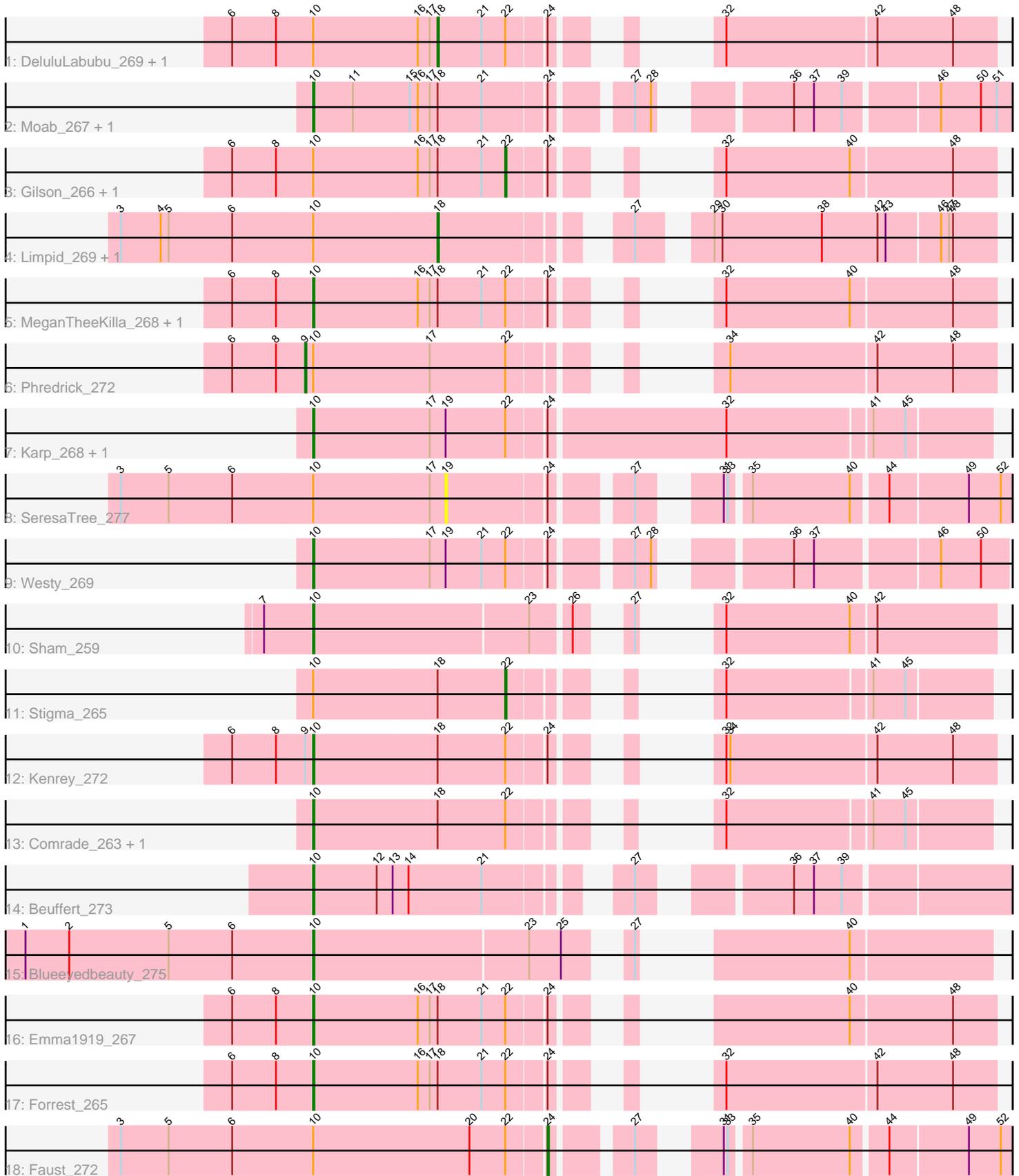


Pham 284122



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 284122 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284122 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : DeluluLabubu_269, Jada_266
- Track 2 : Moab_267, Patelgo_270
- Track 3 : Gilson_266, Maupel_272
- Track 4 : Limpid_269, Annadreamy_263
- Track 5 : MeganTheeKilla_268, Francob_269
- Track 6 : Phredrick_272
- Track 7 : Karp_268, Belfort_268
- Track 8 : SeresaTree_277
- Track 9 : Westy_269
- Track 10 : Sham_259
- Track 11 : Stigma_265
- Track 12 : Kenrey_272
- Track 13 : Comrade_263, SparkleGoddess_266
- Track 14 : Beuffert_273
- Track 15 : Blueeyedbeauty_275
- Track 16 : Emma1919_267
- Track 17 : Forrest_265
- Track 18 : Faust_272

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 15 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort_268, Beuffert_273, Blueeyedbeauty_275, Comrade_263, 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, DeluluLabubu_269, 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:

-

Summary by start number:

Start 9:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Phredrick_272 (BK1),

Start 10:

- Found in 25 of 25 (100.0%) of genes in pham
- Manual Annotations of this start: 15 of 22
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Belfort_268 (BK1), Beuffert_273 (BK1), Blueeyedbeauty_275 (BK1), Comrade_263 (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 18:

- Found in 16 of 25 (64.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_263 (BK1), DeluluLabubu_269 (BK1), Jada_266 (BK1), Limpid_269 (BK1),

Start 19:

- Found in 4 of 25 (16.0%) 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 22:

- Found in 17 of 25 (68.0%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 17.6% of time when present
- Phage (with cluster) where this start called: Gilson_266 (BK1), Maupel_272 (BK1), Stigma_265 (BK1),

Start 24:

- Found in 16 of 25 (64.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 6.2% 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 9 was manually annotated 1 time for cluster BK1.
- Start number 10 was manually annotated 15 times for cluster BK1.

- Start number 18 was manually annotated 3 times for cluster BK1.
- Start number 22 was manually annotated 2 times for cluster BK1.
- Start number 24 was manually annotated 1 time for cluster BK1.

Gene Information:

Gene: Annadreamy_263 Start: 124490, Stop: 124852, Start Num: 18

Candidate Starts for Annadreamy_263:

(3, 124253), (4, 124283), (5, 124289), (6, 124337), (Start: 10 @124397 has 15 MA's), (Start: 18 @124490 has 3 MA's), (27, 124604), (29, 124643), (30, 124649), (38, 124724), (42, 124766), (43, 124772), (46, 124811), (47, 124817), (48, 124820),

Gene: Belfort_268 Start: 127669, Stop: 128160, Start Num: 10

Candidate Starts for Belfort_268:

(Start: 10 @127669 has 15 MA's), (17, 127756), (19, 127768), (Start: 22 @127813 has 2 MA's), (Start: 24 @127840 has 1 MA's), (32, 127969), (41, 128074), (45, 128098),

Gene: Beuffert_273 Start: 128615, Stop: 129061, Start Num: 10

Candidate Starts for Beuffert_273:

(Start: 10 @128615 has 15 MA's), (12, 128663), (13, 128675), (14, 128687), (21, 128741), (27, 128822), (36, 128906), (37, 128921), (39, 128942),

Gene: Blueeyedbeauty_275 Start: 129181, Stop: 129603, Start Num: 10

Candidate Starts for Blueeyedbeauty_275:

(1, 128965), (2, 128998), (5, 129073), (6, 129121), (Start: 10 @129181 has 15 MA's), (23, 129340), (25, 129364), (27, 129394), (40, 129499),

Gene: Comrade_263 Start: 127808, Stop: 128215, Start Num: 10

Candidate Starts for Comrade_263:

(Start: 10 @127808 has 15 MA's), (Start: 18 @127901 has 3 MA's), (Start: 22 @127952 has 2 MA's), (32, 128024), (41, 128129), (45, 128153),

Gene: DeluluLabubu_269 Start: 127454, Stop: 127777, Start Num: 18

Candidate Starts for DeluluLabubu_269:

(6, 127301), (8, 127334), (Start: 10 @127361 has 15 MA's), (16, 127439), (17, 127448), (Start: 18 @127454 has 3 MA's), (21, 127487), (Start: 22 @127505 has 2 MA's), (Start: 24 @127532 has 1 MA's), (32, 127577), (42, 127688), (48, 127745),

Gene: Emma1919_267 Start: 126830, Stop: 127246, Start Num: 10

Candidate Starts for Emma1919_267:

(6, 126770), (8, 126803), (Start: 10 @126830 has 15 MA's), (16, 126908), (17, 126917), (Start: 18 @126923 has 3 MA's), (21, 126956), (Start: 22 @126974 has 2 MA's), (Start: 24 @127001 has 1 MA's), (40, 127139), (48, 127214),

Gene: Faust_272 Start: 129519, Stop: 129806, Start Num: 24

Candidate Starts for Faust_272:

(3, 129204), (5, 129240), (6, 129288), (Start: 10 @129348 has 15 MA's), (20, 129465), (Start: 22 @129492 has 2 MA's), (Start: 24 @129519 has 1 MA's), (27, 129567), (31, 129606), (33, 129609), (35, 129621), (40, 129693), (44, 129717), (49, 129774), (52, 129798),

Gene: Forrest_265 Start: 127267, Stop: 127683, Start Num: 10

Candidate Starts for Forrest_265:

(6, 127207), (8, 127240), (Start: 10 @127267 has 15 MA's), (16, 127345), (17, 127354), (Start: 18 @127360 has 3 MA's), (21, 127393), (Start: 22 @127411 has 2 MA's), (Start: 24 @127438 has 1 MA's), (32, 127483), (42, 127594), (48, 127651),

Gene: Francob_269 Start: 127555, Stop: 127971, Start Num: 10

Candidate Starts for Francob_269:

(6, 127495), (8, 127528), (Start: 10 @127555 has 15 MA's), (16, 127633), (17, 127642), (Start: 18 @127648 has 3 MA's), (21, 127681), (Start: 22 @127699 has 2 MA's), (Start: 24 @127726 has 1 MA's), (32, 127771), (40, 127864), (48, 127939),

Gene: Gilson_266 Start: 127236, Stop: 127508, Start Num: 22

Candidate Starts for Gilson_266:

(6, 127032), (8, 127065), (Start: 10 @127092 has 15 MA's), (16, 127170), (17, 127179), (Start: 18 @127185 has 3 MA's), (21, 127218), (Start: 22 @127236 has 2 MA's), (Start: 24 @127263 has 1 MA's), (32, 127308), (40, 127401), (48, 127476),

Gene: Jada_266 Start: 126600, Stop: 126923, Start Num: 18

Candidate Starts for Jada_266:

(6, 126447), (8, 126480), (Start: 10 @126507 has 15 MA's), (16, 126585), (17, 126594), (Start: 18 @126600 has 3 MA's), (21, 126633), (Start: 22 @126651 has 2 MA's), (Start: 24 @126678 has 1 MA's), (32, 126723), (42, 126834), (48, 126891),

Gene: Karp_268 Start: 129266, Stop: 129757, Start Num: 10

Candidate Starts for Karp_268:

(Start: 10 @129266 has 15 MA's), (17, 129353), (19, 129365), (Start: 22 @129410 has 2 MA's), (Start: 24 @129437 has 1 MA's), (32, 129566), (41, 129671), (45, 129695),

Gene: Kenrey_272 Start: 128308, Stop: 128724, Start Num: 10

Candidate Starts for Kenrey_272:

(6, 128248), (8, 128281), (Start: 9 @128302 has 1 MA's), (Start: 10 @128308 has 15 MA's), (Start: 18 @128401 has 3 MA's), (Start: 22 @128452 has 2 MA's), (Start: 24 @128479 has 1 MA's), (32, 128524), (34, 128527), (42, 128635), (48, 128692),

Gene: Limpid_269 Start: 129803, Stop: 130165, Start Num: 18

Candidate Starts for Limpid_269:

(3, 129566), (4, 129596), (5, 129602), (6, 129650), (Start: 10 @129710 has 15 MA's), (Start: 18 @129803 has 3 MA's), (27, 129917), (29, 129956), (30, 129962), (38, 130037), (42, 130079), (43, 130085), (46, 130124), (47, 130130), (48, 130133),

Gene: Maupel_272 Start: 126429, Stop: 126701, Start Num: 22

Candidate Starts for Maupel_272:

(6, 126225), (8, 126258), (Start: 10 @126285 has 15 MA's), (16, 126363), (17, 126372), (Start: 18 @126378 has 3 MA's), (21, 126411), (Start: 22 @126429 has 2 MA's), (Start: 24 @126456 has 1 MA's), (32, 126501), (40, 126594), (48, 126669),

Gene: MeganTheeKilla_268 Start: 126906, Stop: 127322, Start Num: 10

Candidate Starts for MeganTheeKilla_268:

(6, 126846), (8, 126879), (Start: 10 @126906 has 15 MA's), (16, 126984), (17, 126993), (Start: 18 @126999 has 3 MA's), (21, 127032), (Start: 22 @127050 has 2 MA's), (Start: 24 @127077 has 1 MA's), (32, 127122), (40, 127215), (48, 127290),

Gene: Moab_267 Start: 128131, Stop: 128589, Start Num: 10

Candidate Starts for Moab_267:

(Start: 10 @128131 has 15 MA's), (11, 128161), (15, 128203), (16, 128209), (17, 128218), (Start: 18 @128224 has 3 MA's), (21, 128257), (Start: 24 @128302 has 1 MA's), (27, 128350), (28, 128362), (36, 128434), (37, 128449), (39, 128470), (46, 128536), (50, 128566), (51, 128578),

Gene: Patelgo_270 Start: 129064, Stop: 129522, Start Num: 10

Candidate Starts for Patelgo_270:

(Start: 10 @129064 has 15 MA's), (11, 129094), (15, 129136), (16, 129142), (17, 129151), (Start: 18 @129157 has 3 MA's), (21, 129190), (Start: 24 @129235 has 1 MA's), (27, 129283), (28, 129295), (36, 129367), (37, 129382), (39, 129403), (46, 129469), (50, 129499), (51, 129511),

Gene: Phredrick_272 Start: 127622, Stop: 128044, Start Num: 9

Candidate Starts for Phredrick_272:

(6, 127568), (8, 127601), (Start: 9 @127622 has 1 MA's), (Start: 10 @127628 has 15 MA's), (17, 127715), (Start: 22 @127772 has 2 MA's), (34, 127847), (42, 127955), (48, 128012),

Gene: SeresaTree_277 Start: 129668, Stop: 130027, Start Num: 19

Candidate Starts for SeresaTree_277:

(3, 129425), (5, 129461), (6, 129509), (Start: 10 @129569 has 15 MA's), (17, 129656), (19, 129668), (Start: 24 @129740 has 1 MA's), (27, 129788), (31, 129827), (33, 129830), (35, 129842), (40, 129914), (44, 129938), (49, 129995), (52, 130019),

Gene: Sham_259 Start: 129037, Stop: 129456, Start Num: 10

Candidate Starts for Sham_259:

(7, 129001), (Start: 10 @129037 has 15 MA's), (23, 129196), (26, 129223), (27, 129244), (32, 129256), (40, 129349), (42, 129367),

Gene: SparkleGoddess_266 Start: 128535, Stop: 128942, Start Num: 10

Candidate Starts for SparkleGoddess_266:

(Start: 10 @128535 has 15 MA's), (Start: 18 @128628 has 3 MA's), (Start: 22 @128679 has 2 MA's), (32, 128751), (41, 128856), (45, 128880),

Gene: Stigma_265 Start: 128392, Stop: 128655, Start Num: 22

Candidate Starts for Stigma_265:

(Start: 10 @128248 has 15 MA's), (Start: 18 @128341 has 3 MA's), (Start: 22 @128392 has 2 MA's), (32, 128464), (41, 128569), (45, 128593),

Gene: Westy_269 Start: 129072, Stop: 129527, Start Num: 10

Candidate Starts for Westy_269:

(Start: 10 @129072 has 15 MA's), (17, 129159), (19, 129171), (21, 129198), (Start: 22 @129216 has 2 MA's), (Start: 24 @129243 has 1 MA's), (27, 129291), (28, 129303), (36, 129375), (37, 129390), (46, 129477), (50, 129507),