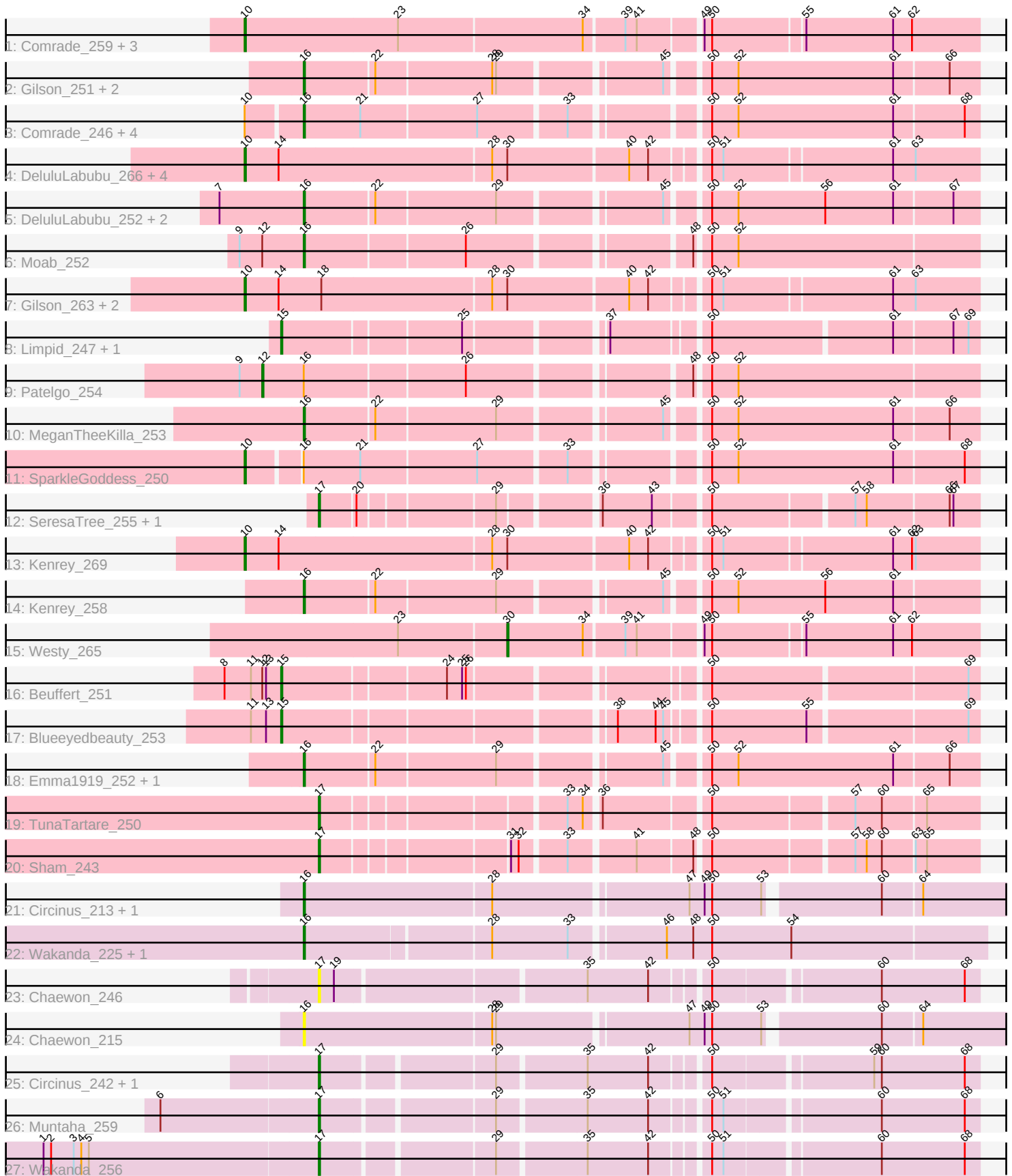


Pham 240849



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 240849 Report

This analysis was run 02/07/26 on database version 634.

Pham number 240849 has 50 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Comrade_259, Belfort_264, Stigma_261, SparkleGoddess_263
- Track 2 : Gilson_251, Maupel_254, Francob_255
- Track 3 : Comrade_246, Karp_250, Stigma_248, Belfort_251, Westy_252
- Track 4 : DeluluLabubu_266, Emma1919_264, Phredrick_269, Forrest_262, Jada_263
- Track 5 : DeluluLabubu_252, Jada_250, Forrest_250
- Track 6 : Moab_252
- Track 7 : Gilson_263, Maupel_269, Francob_266
- Track 8 : Limpid_247, Annadreamy_241
- Track 9 : Patelgo_254
- Track 10 : MeganTheeKilla_253
- Track 11 : SparkleGoddess_250
- Track 12 : SeresaTree_255, Faust_251
- Track 13 : Kenrey_269
- Track 14 : Kenrey_258
- Track 15 : Westy_265
- Track 16 : Beuffert_251
- Track 17 : Blueeyedbeauty_253
- Track 18 : Emma1919_252, Phredrick_257
- Track 19 : TunaTartare_250
- Track 20 : Sham_243
- Track 21 : Circinus_213, BillNye_213
- Track 22 : Wakanda_225, Muntaha_229
- Track 23 : Chaewon_246
- Track 24 : Chaewon_215
- Track 25 : Circinus_242, BillNye_243
- Track 26 : Muntaha_259
- Track 27 : Wakanda_256

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

The start number called the most often in the published annotations is 16, it was called in 18 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort_251, BillNye_213, Chaewon_215, Circinus_213, Comrade_246, DeluluLabubu_252, Emma1919_252, Forrest_250, Francob_255, Gilson_251, Jada_250, Karp_250, Kenrey_258, Maupel_254, MeganTheeKilla_253, Moab_252, Muntaha_229, Phredrick_257, Stigma_248, Wakanda_225, Westy_252,

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

- Patelgo_254, SparkleGoddess_250,

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

- Annadreamy_241, Belfort_264, Beuffert_251, BillNye_243, Blueeyedbeauty_253, Chaewon_246, Circinus_242, Comrade_259, DeluluLabubu_266, Emma1919_264, Faust_251, Forrest_262, Francob_266, Gilson_263, Jada_263, Kenrey_269, Limpid_247, Maupel_269, Muntaha_259, Phredrick_269, SeresaTree_255, Sham_243, SparkleGoddess_263, Stigma_261, TunaTartare_250, Wakanda_256, Westy_265,

Summary by start number:

Start 10:

- Found in 19 of 50 (38.0%) of genes in pham
- Manual Annotations of this start: 12 of 43
- Called 73.7% of time when present
- Phage (with cluster) where this start called: Belfort_264 (BK1), Comrade_259 (BK1), DeluluLabubu_266 (BK1), Emma1919_264 (BK1), Forrest_262 (BK1), Francob_266 (BK1), Gilson_263 (BK1), Jada_263 (BK1), Kenrey_269 (BK1), Maupel_269 (BK1), Phredrick_269 (BK1), SparkleGoddess_250 (BK1), SparkleGoddess_263 (BK1), Stigma_261 (BK1),

Start 12:

- Found in 3 of 50 (6.0%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Patelgo_254 (BK1),

Start 15:

- Found in 4 of 50 (8.0%) of genes in pham
- Manual Annotations of this start: 4 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_241 (BK1), Beuffert_251 (BK1), Blueeyedbeauty_253 (BK1), Limpid_247 (BK1),

Start 16:

- Found in 23 of 50 (46.0%) of genes in pham
- Manual Annotations of this start: 18 of 43
- Called 91.3% of time when present
- Phage (with cluster) where this start called: Belfort_251 (BK1), BillNye_213 (BK2), Chaewon_215 (BK2), Circinus_213 (BK2), Comrade_246 (BK1), DeluluLabubu_252 (BK1), Emma1919_252 (BK1), Forrest_250 (BK1), Francob_255 (BK1), Gilson_251 (BK1), Jada_250 (BK1), Karp_250 (BK1), Kenrey_258 (BK1), Maupel_254 (BK1), MeganTheeKilla_253 (BK1), Moab_252 (BK1), Muntaha_229 (BK2), Phredrick_257 (BK1), Stigma_248 (BK1), Wakanda_225 (BK2), Westy_252 (BK1),

Start 17:

- Found in 9 of 50 (18.0%) of genes in pham
- Manual Annotations of this start: 7 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye_243 (BK2), Chaewon_246 (BK2), Circinus_242 (BK2), Faust_251 (BK1), Muntaha_259 (BK2), SeresaTree_255 (BK1), Sham_243 (BK1), TunaTartare_250 (BK1), Wakanda_256 (BK2),

Start 30:

- Found in 10 of 50 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Westy_265 (BK1),

Summary by clusters:

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

Info for manual annotations of cluster BK1:

- Start number 10 was manually annotated 12 times for cluster BK1.
- Start number 12 was manually annotated 1 time for cluster BK1.
- Start number 15 was manually annotated 4 times for cluster BK1.
- Start number 16 was manually annotated 14 times for cluster BK1.
- Start number 17 was manually annotated 3 times for cluster BK1.
- Start number 30 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 16 was manually annotated 4 times for cluster BK2.
- Start number 17 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: Annadreamy_241 Start: 115119, Stop: 115625, Start Num: 15

Candidate Starts for Annadreamy_241:

(Start: 15 @115119 has 4 MA's), (25, 115254), (37, 115353), (50, 115422), (61, 115560), (67, 115605), (69, 115617),

Gene: Belfort_264 Start: 125997, Stop: 126557, Start Num: 10

Candidate Starts for Belfort_264:

(Start: 10 @125997 has 12 MA's), (23, 126117), (34, 126261), (39, 126291), (41, 126300), (49, 126345), (50, 126351), (55, 126420), (61, 126489), (62, 126504),

Gene: Belfort_251 Start: 119236, Stop: 119739, Start Num: 16

Candidate Starts for Belfort_251:

(Start: 10 @119197 has 12 MA's), (Start: 16 @119236 has 18 MA's), (21, 119281), (27, 119371), (33, 119437), (50, 119530), (52, 119551), (61, 119674), (68, 119728),

Gene: Beuffert_251 Start: 119885, Stop: 120391, Start Num: 15

Candidate Starts for Beuffert_251:

(8, 119840), (11, 119861), (Start: 12 @119870 has 1 MA's), (13, 119873), (Start: 15 @119885 has 4 MA's), (24, 120008), (25, 120020), (26, 120023), (50, 120188), (69, 120383),

Gene: BillNye_213 Start: 110662, Stop: 111204, Start Num: 16

Candidate Starts for BillNye_213:

(Start: 16 @110662 has 18 MA's), (28, 110809), (47, 110956), (49, 110968), (50, 110974), (53, 111013), (60, 111097), (64, 111127),

Gene: BillNye_243 Start: 122668, Stop: 123147, Start Num: 17

Candidate Starts for BillNye_243:

(Start: 17 @122668 has 7 MA's), (29, 122794), (35, 122860), (42, 122908), (50, 122947), (59, 123064), (60, 123070), (68, 123136),

Gene: Blueeyedbeauty_253 Start: 119883, Stop: 120389, Start Num: 15

Candidate Starts for Blueeyedbeauty_253:

(11, 119859), (13, 119871), (Start: 15 @119883 has 4 MA's), (38, 120123), (44, 120153), (45, 120159), (50, 120186), (55, 120261), (69, 120381),

Gene: Chaewon_246 Start: 123507, Stop: 123992, Start Num: 17

Candidate Starts for Chaewon_246:

(Start: 17 @123507 has 7 MA's), (19, 123519), (35, 123705), (42, 123753), (50, 123792), (60, 123915), (68, 123981),

Gene: Chaewon_215 Start: 110591, Stop: 111133, Start Num: 16

Candidate Starts for Chaewon_215:

(Start: 16 @110591 has 18 MA's), (28, 110738), (29, 110741), (47, 110885), (49, 110897), (50, 110903), (53, 110942), (60, 111026), (64, 111056),

Gene: Circinus_213 Start: 110252, Stop: 110794, Start Num: 16

Candidate Starts for Circinus_213:

(Start: 16 @110252 has 18 MA's), (28, 110399), (47, 110546), (49, 110558), (50, 110564), (53, 110603), (60, 110687), (64, 110717),

Gene: Circinus_242 Start: 122175, Stop: 122654, Start Num: 17

Candidate Starts for Circinus_242:

(Start: 17 @122175 has 7 MA's), (29, 122301), (35, 122367), (42, 122415), (50, 122454), (59, 122571), (60, 122577), (68, 122643),

Gene: Comrade_259 Start: 126136, Stop: 126696, Start Num: 10

Candidate Starts for Comrade_259:

(Start: 10 @126136 has 12 MA's), (23, 126256), (34, 126400), (39, 126430), (41, 126439), (49, 126484), (50, 126490), (55, 126559), (61, 126628), (62, 126643),

Gene: Comrade_246 Start: 119378, Stop: 119881, Start Num: 16

Candidate Starts for Comrade_246:

(Start: 10 @119339 has 12 MA's), (Start: 16 @119378 has 18 MA's), (21, 119423), (27, 119513), (33, 119579), (50, 119672), (52, 119693), (61, 119816), (68, 119870),

Gene: DeluluLabubu_266 Start: 125800, Stop: 126357, Start Num: 10

Candidate Starts for DeluluLabubu_266:

(Start: 10 @125800 has 12 MA's), (14, 125827), (28, 125992), (Start: 30 @126004 has 1 MA's), (40, 126097), (42, 126112), (50, 126151), (51, 126160), (61, 126289), (63, 126307),

Gene: DeluluLabubu_252 Start: 118837, Stop: 119337, Start Num: 16

Candidate Starts for DeluluLabubu_252:

(7, 118774), (Start: 16 @118837 has 18 MA's), (22, 118891), (29, 118984), (45, 119101), (50, 119128), (52, 119149), (56, 119218), (61, 119272), (67, 119317),

Gene: Emma1919_264 Start: 125172, Stop: 125729, Start Num: 10

Candidate Starts for Emma1919_264:

(Start: 10 @125172 has 12 MA's), (14, 125199), (28, 125364), (Start: 30 @125376 has 1 MA's), (40, 125469), (42, 125484), (50, 125523), (51, 125532), (61, 125661), (63, 125679),

Gene: Emma1919_252 Start: 118200, Stop: 118700, Start Num: 16

Candidate Starts for Emma1919_252:

(Start: 16 @118200 has 18 MA's), (22, 118254), (29, 118347), (45, 118464), (50, 118491), (52, 118512), (61, 118635), (66, 118677),

Gene: Faust_251 Start: 120587, Stop: 121060, Start Num: 17

Candidate Starts for Faust_251:

(Start: 17 @120587 has 7 MA's), (20, 120614), (29, 120713), (36, 120782), (43, 120821), (50, 120860), (57, 120965), (58, 120974), (66, 121037), (67, 121040),

Gene: Forrest_250 Start: 118548, Stop: 119048, Start Num: 16

Candidate Starts for Forrest_250:

(7, 118485), (Start: 16 @118548 has 18 MA's), (22, 118602), (29, 118695), (45, 118812), (50, 118839), (52, 118860), (56, 118929), (61, 118983), (67, 119028),

Gene: Forrest_262 Start: 125609, Stop: 126166, Start Num: 10

Candidate Starts for Forrest_262:

(Start: 10 @125609 has 12 MA's), (14, 125636), (28, 125801), (Start: 30 @125813 has 1 MA's), (40, 125906), (42, 125921), (50, 125960), (51, 125969), (61, 126098), (63, 126116),

Gene: Francob_266 Start: 125994, Stop: 126551, Start Num: 10

Candidate Starts for Francob_266:

(Start: 10 @125994 has 12 MA's), (14, 126021), (18, 126054), (28, 126186), (Start: 30 @126198 has 1 MA's), (40, 126291), (42, 126306), (50, 126345), (51, 126354), (61, 126483), (63, 126501),

Gene: Francob_255 Start: 119293, Stop: 119793, Start Num: 16

Candidate Starts for Francob_255:

(Start: 16 @119293 has 18 MA's), (22, 119347), (28, 119437), (29, 119440), (45, 119557), (50, 119584), (52, 119605), (61, 119728), (66, 119770),

Gene: Gilson_251 Start: 118558, Stop: 119058, Start Num: 16

Candidate Starts for Gilson_251:

(Start: 16 @118558 has 18 MA's), (22, 118612), (28, 118702), (29, 118705), (45, 118822), (50, 118849), (52, 118870), (61, 118993), (66, 119035),

Gene: Gilson_263 Start: 125531, Stop: 126088, Start Num: 10

Candidate Starts for Gilson_263:

(Start: 10 @125531 has 12 MA's), (14, 125558), (18, 125591), (28, 125723), (Start: 30 @125735 has 1 MA's), (40, 125828), (42, 125843), (50, 125882), (51, 125891), (61, 126020), (63, 126038),

Gene: Jada_250 Start: 117788, Stop: 118288, Start Num: 16

Candidate Starts for Jada_250:

(7, 117725), (Start: 16 @117788 has 18 MA's), (22, 117842), (29, 117935), (45, 118052), (50, 118079), (52, 118100), (56, 118169), (61, 118223), (67, 118268),

Gene: Jada_263 Start: 124849, Stop: 125406, Start Num: 10

Candidate Starts for Jada_263:

(Start: 10 @124849 has 12 MA's), (14, 124876), (28, 125041), (Start: 30 @125053 has 1 MA's), (40, 125146), (42, 125161), (50, 125200), (51, 125209), (61, 125338), (63, 125356),

Gene: Karp_250 Start: 120834, Stop: 121337, Start Num: 16

Candidate Starts for Karp_250:

(Start: 10 @120795 has 12 MA's), (Start: 16 @120834 has 18 MA's), (21, 120879), (27, 120969), (33, 121035), (50, 121128), (52, 121149), (61, 121272), (68, 121326),

Gene: Kenrey_269 Start: 126743, Stop: 127300, Start Num: 10

Candidate Starts for Kenrey_269:

(Start: 10 @126743 has 12 MA's), (14, 126770), (28, 126935), (Start: 30 @126947 has 1 MA's), (40, 127040), (42, 127055), (50, 127094), (51, 127103), (61, 127232), (62, 127247), (63, 127250),

Gene: Kenrey_258 Start: 119950, Stop: 120450, Start Num: 16

Candidate Starts for Kenrey_258:

(Start: 16 @119950 has 18 MA's), (22, 120004), (29, 120097), (45, 120214), (50, 120241), (52, 120262), (56, 120331), (61, 120385),

Gene: Limpid_247 Start: 120432, Stop: 120938, Start Num: 15

Candidate Starts for Limpid_247:

(Start: 15 @120432 has 4 MA's), (25, 120567), (37, 120666), (50, 120735), (61, 120873), (67, 120918), (69, 120930),

Gene: Maupel_269 Start: 124724, Stop: 125281, Start Num: 10

Candidate Starts for Maupel_269:

(Start: 10 @124724 has 12 MA's), (14, 124751), (18, 124784), (28, 124916), (Start: 30 @124928 has 1 MA's), (40, 125021), (42, 125036), (50, 125075), (51, 125084), (61, 125213), (63, 125231),

Gene: Maupel_254 Start: 117751, Stop: 118251, Start Num: 16

Candidate Starts for Maupel_254:

(Start: 16 @117751 has 18 MA's), (22, 117805), (28, 117895), (29, 117898), (45, 118015), (50, 118042), (52, 118063), (61, 118186), (66, 118228),

Gene: MeganTheeKilla_253 Start: 118359, Stop: 118859, Start Num: 16

Candidate Starts for MeganTheeKilla_253:

(Start: 16 @118359 has 18 MA's), (22, 118413), (29, 118506), (45, 118623), (50, 118650), (52, 118671), (61, 118794), (66, 118836),

Gene: Moab_252 Start: 120522, Stop: 121022, Start Num: 16

Candidate Starts for Moab_252:

(9, 120471), (Start: 12 @120489 has 1 MA's), (Start: 16 @120522 has 18 MA's), (26, 120645), (48, 120804), (50, 120813), (52, 120834),

Gene: Muntaha_259 Start: 123170, Stop: 123649, Start Num: 17

Candidate Starts for Muntaha_259:

(6, 123047), (Start: 17 @123170 has 7 MA's), (29, 123296), (35, 123362), (42, 123410), (50, 123449), (51, 123458), (60, 123572), (68, 123638),

Gene: Muntaha_229 Start: 110982, Stop: 111503, Start Num: 16

Candidate Starts for Muntaha_229:

(Start: 16 @110982 has 18 MA's), (28, 111123), (33, 111183), (46, 111252), (48, 111273), (50, 111288), (54, 111351),

Gene: Patelgo_254 Start: 121436, Stop: 121969, Start Num: 12

Candidate Starts for Patelgo_254:

(9, 121418), (Start: 12 @121436 has 1 MA's), (Start: 16 @121469 has 18 MA's), (26, 121592), (48, 121751), (50, 121760), (52, 121781),

Gene: Phredrick_269 Start: 125970, Stop: 126527, Start Num: 10

Candidate Starts for Phredrick_269:

(Start: 10 @125970 has 12 MA's), (14, 125997), (28, 126162), (Start: 30 @126174 has 1 MA's), (40, 126267), (42, 126282), (50, 126321), (51, 126330), (61, 126459), (63, 126477),

Gene: Phredrick_257 Start: 119042, Stop: 119542, Start Num: 16

Candidate Starts for Phredrick_257:

(Start: 16 @119042 has 18 MA's), (22, 119096), (29, 119189), (45, 119306), (50, 119333), (52, 119354), (61, 119477), (66, 119519),

Gene: SeresaTree_255 Start: 120812, Stop: 121285, Start Num: 17

Candidate Starts for SeresaTree_255:

(Start: 17 @120812 has 7 MA's), (20, 120839), (29, 120938), (36, 121007), (43, 121046), (50, 121085), (57, 121190), (58, 121199), (66, 121262), (67, 121265),

Gene: Sham_243 Start: 121073, Stop: 121546, Start Num: 17

Candidate Starts for Sham_243:

(Start: 17 @121073 has 7 MA's), (31, 121208), (32, 121214), (33, 121247), (41, 121295), (48, 121337), (50, 121346), (57, 121451), (58, 121460), (60, 121472), (63, 121496), (65, 121505),

Gene: SparkleGoddess_250 Start: 120070, Stop: 120612, Start Num: 10

Candidate Starts for SparkleGoddess_250:

(Start: 10 @120070 has 12 MA's), (Start: 16 @120109 has 18 MA's), (21, 120154), (27, 120244), (33, 120310), (50, 120403), (52, 120424), (61, 120547), (68, 120601),

Gene: SparkleGoddess_263 Start: 126863, Stop: 127423, Start Num: 10

Candidate Starts for SparkleGoddess_263:

(Start: 10 @126863 has 12 MA's), (23, 126983), (34, 127127), (39, 127157), (41, 127166), (49, 127211), (50, 127217), (55, 127286), (61, 127355), (62, 127370),

Gene: Stigma_261 Start: 126576, Stop: 127136, Start Num: 10

Candidate Starts for Stigma_261:

(Start: 10 @126576 has 12 MA's), (23, 126696), (34, 126840), (39, 126870), (41, 126879), (49, 126924), (50, 126930), (55, 126999), (61, 127068), (62, 127083),

Gene: Stigma_248 Start: 119821, Stop: 120324, Start Num: 16

Candidate Starts for Stigma_248:

(Start: 10 @119782 has 12 MA's), (Start: 16 @119821 has 18 MA's), (21, 119866), (27, 119956), (33, 120022), (50, 120115), (52, 120136), (61, 120259), (68, 120313),

Gene: TunaTartare_250 Start: 122541, Stop: 123014, Start Num: 17

Candidate Starts for TunaTartare_250:

(Start: 17 @122541 has 7 MA's), (33, 122715), (34, 122727), (36, 122736), (50, 122814), (57, 122919), (60, 122940), (65, 122973),

Gene: Wakanda_225 Start: 109969, Stop: 110490, Start Num: 16

Candidate Starts for Wakanda_225:

(Start: 16 @109969 has 18 MA's), (28, 110110), (33, 110170), (46, 110239), (48, 110260), (50, 110275), (54, 110338),

Gene: Wakanda_256 Start: 122334, Stop: 122813, Start Num: 17

Candidate Starts for Wakanda_256:

(1, 122118), (2, 122124), (3, 122142), (4, 122148), (5, 122154), (Start: 17 @122334 has 7 MA's), (29, 122460), (35, 122526), (42, 122574), (50, 122613), (51, 122622), (60, 122736), (68, 122802),

Gene: Westy_252 Start: 120639, Stop: 121142, Start Num: 16

Candidate Starts for Westy_252:

(Start: 10 @120600 has 12 MA's), (Start: 16 @120639 has 18 MA's), (21, 120684), (27, 120774), (33, 120840), (50, 120933), (52, 120954), (61, 121077), (68, 121131),

Gene: Westy_265 Start: 127604, Stop: 127960, Start Num: 30

Candidate Starts for Westy_265:

(23, 127520), (Start: 30 @127604 has 1 MA's), (34, 127664), (39, 127694), (41, 127703), (49, 127748), (50, 127754), (55, 127823), (61, 127892), (62, 127907),