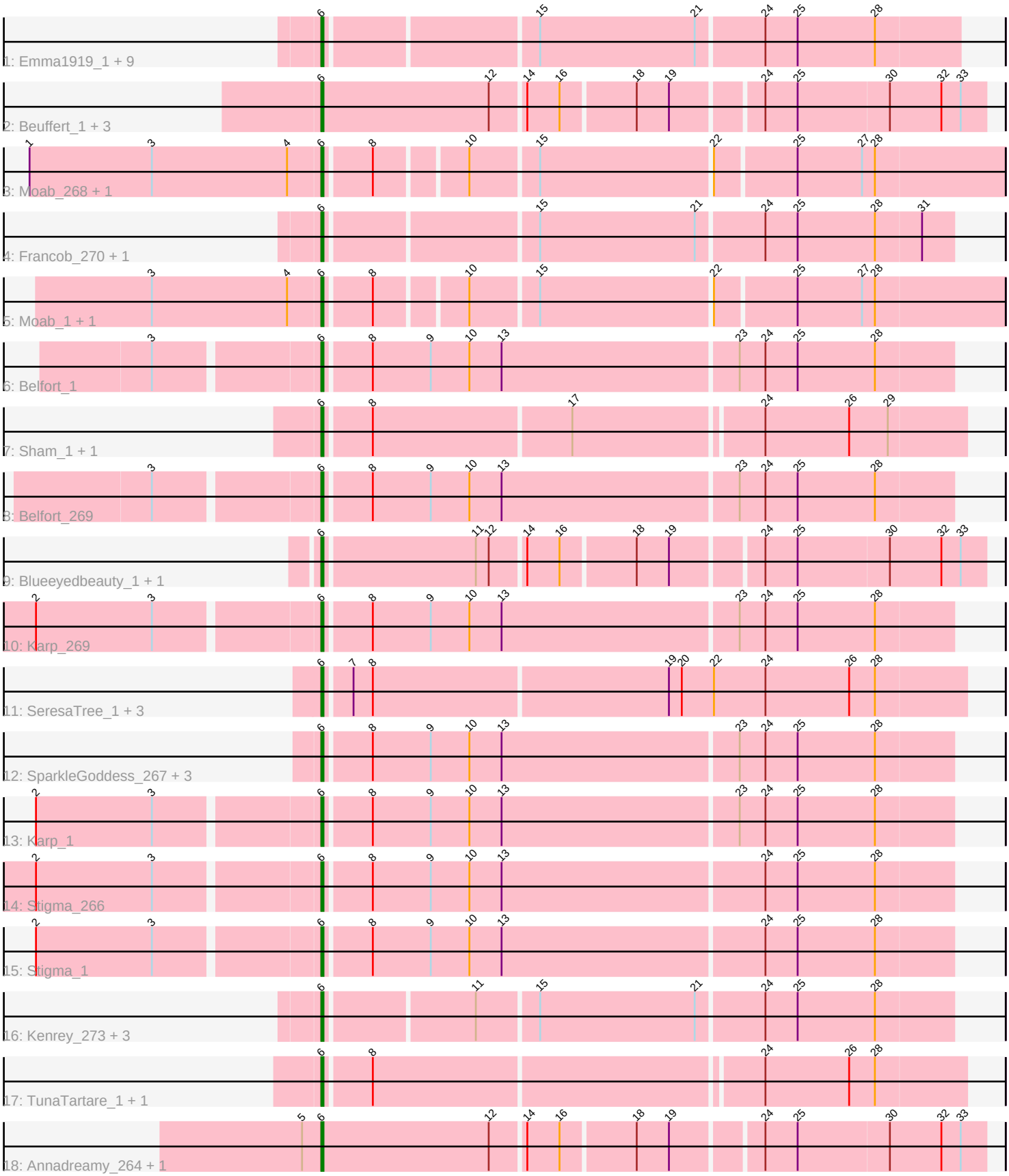
Pham 2349


1: Emma1919_1 + 9
2: Beuffert_1 + 3
3: Moab_268 + 1
4: Francob_270 + 1
5: Moab_1 + 1
6: Belfort_1
7: Sham_1 + 1
8: Belfort_269
9: Blueeyedbeauty_1 + 1
10: Karp_269
11: SeresaTree_1 + 3
12: SparkleGoddess_267 + 3
13: Karp_1
14: Stigma_266
15: Stigma_1
16: Kenrey_273 + 3
17: TunaTartare_1 + 1
18: Annadreamy_264 + 1

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 2349 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2349 has 46 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Emma1919_1, Emma1919_268, Phredrick_273, Gilson_267, Jada_1, Jada_267, Forrest_1, Gilson_1, Forrest_266, Phredrick_1
• Track 2 : Beuffert_1, Limpid_270, Beuffert_275, Limpid_1
• Track 3 : Moab_268, Patelgo_271
• Track 4 : Francob_270, Francob_1
• Track 5 : Moab_1, Patelgo_1
• Track 6 : Belfort_1
• Track 7 : Sham_1, Sham_260
• Track 8 : Belfort_269
• Track 9 : Blueeyedbeauty_1, Blueeyedbeauty_276
• Track 10 : Karp_269
• Track 11 : SeresaTree_1, Faust_1, SeresaTree_278, Faust_273
• Track 12 : SparkleGoddess_267, Comrade_1, Comrade_264, SparkleGoddess_1
• Track 13 : Karp_1
• Track 14 : Stigma_266
• Track 15 : Stigma_1
• Track 16 : Kenrey_273, MeganTheeKilla_1, Kenrey_1, MeganTheeKilla_269
• Track 17 : TunaTartare_1, TunaTartare_266
• Track 18 : Annadreamy_264, Annadreamy_1

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

The start number called the most often in the published annotations is 6, it was called in 44 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_1, Annadreamy_264, Belfort_1, Belfort_269, Beuffert_1, Beuffert_275, Blueeyedbeauty_1, Blueeyedbeauty_276, Comrade_1, Comrade_264, Emma1919_1, Emma1919_268, Faust_1, Faust_273, Forrest_1, Forrest_266, Francob_1, Francob_270, Gilson_1, Gilson_267, Jada_1, Jada_267, Karp_1, Karp_269, Kenrey_1, Kenrey_273, Limpid_1, Limpid_270, MeganTheeKilla_1, MeganTheeKilla_269, Moab_1, Moab_268, Patelgo_1, Patelgo_271, Phredrick_1, Phredrick_273, SeresaTree_1, SeresaTree_278, Sham_1, Sham_260, SparkleGoddess_1, SparkleGoddess_267, Stigma_1, Stigma_266, TunaTartare_1,

TunaTartare_266,

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

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

Summary by start number:

Start 6:
• Found in 46 of 46 (100.0%) of genes in pham
• Manual Annotations of this start: 44 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_1 (BK1), Annadreamy_264 (BK1), Belfort_1 (BK1), Belfort_269 (BK1), Beuffert_1 (BK1), Beuffert_275 (BK1), Blueeyedbeauty_1 (BK1), Blueeyedbeauty_276 (BK1), Comrade_1 (BK1), Comrade_264 (BK1), Emma1919_1 (BK1), Emma1919_268 (BK1), Faust_1 (BK1), Faust_273 (BK1), Forrest_1 (BK1), Forrest_266 (BK1), Francob_1 (BK1), Francob_270 (BK1), Gilson_1 (BK1), Gilson_267 (BK1), Jada_1 (BK1), Jada_267 (BK1), Karp_1 (BK1), Karp_269 (BK1), Kenrey_1 (BK1), Kenrey_273 (BK1), Limpid_1 (BK1), Limpid_270 (BK1), MeganTheeKilla_1 (BK1), MeganTheeKilla_269 (BK1), Moab_1 (BK1), Moab_268 (BK1), Patelgo_1 (BK1), Patelgo_271 (BK1), Phredrick_1 (BK1), Phredrick_273 (BK1), SeresaTree_1 (BK1), SeresaTree_278 (BK1), Sham_1 (BK1), Sham_260 (BK1), SparkleGoddess_1 (BK1), SparkleGoddess_267 (BK1), Stigma_1 (BK1), Stigma_266 (BK1), TunaTartare_1 (BK1), TunaTartare_266 (BK1),

Summary by clusters:

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:
•Start number 6 was manually annotated 44 times for cluster BK1.

Gene Information:

Gene: Annadreamy_264 Start: 125117, Stop: 125413, Start Num: 6
Candidate Starts for Annadreamy_264:
(5, 125108), (Start: 6 @125117 has 44 MA's), (12, 125195), (14, 125210), (16, 125225), (18, 125258), (19, 125273), (24, 125312), (25, 125327), (30, 125369), (32, 125393), (33, 125402),

Gene: Annadreamy_1 Start: 180, Stop: 476, Start Num: 6
Candidate Starts for Annadreamy_1:
(5, 171), (Start: 6 @180 has 44 MA's), (12, 258), (14, 273), (16, 288), (18, 321), (19, 336), (24, 375), (25, 390), (30, 432), (32, 456), (33, 465),

Gene: Belfort_1 Start: 126, Stop: 413, Start Num: 6
Candidate Starts for Belfort_1:
(3, 54), (Start: 6 @126 has 44 MA's), (8, 147), (9, 174), (10, 192), (13, 207), (23, 315), (24, 327), (25, 342), (28, 378),

Gene: Belfort_269 Start: 128352, Stop: 128639, Start Num: 6
Candidate Starts for Belfort_269:
(3, 128280), (Start: 6 @128352 has 44 MA's), (8, 128373), (9, 128400), (10, 128418), (13, 128433), (23, 128541), (24, 128553), (25, 128568), (28, 128604),

Gene: Beuffert_1 Start: 203, Stop: 499, Start Num: 6
Candidate Starts for Beuffert_1:
(Start: 6 @203 has 44 MA's), (12, 281), (14, 296), (16, 311), (18, 344), (19, 359), (24, 398), (25, 413), (30, 455), (32, 479), (33, 488),

Gene: Beuffert_275 Start: 129326, Stop: 129622, Start Num: 6
Candidate Starts for Beuffert_275:
(Start: 6 @129326 has 44 MA's), (12, 129404), (14, 129419), (16, 129434), (18, 129467), (19, 129482), (24, 129521), (25, 129536), (30, 129578), (32, 129602), (33, 129611),

Gene: Blueeyedbeauty_1 Start: 182, Stop: 475, Start Num: 6
Candidate Starts for Blueeyedbeauty_1:
(Start: 6 @182 has 44 MA's), (11, 251), (12, 257), (14, 272), (16, 287), (18, 320), (19, 335), (24, 374), (25, 389), (30, 431), (32, 455), (33, 464),

Gene: Blueeyedbeauty_276 Start: 129867, Stop: 130160, Start Num: 6
Candidate Starts for Blueeyedbeauty_276:
(Start: 6 @129867 has 44 MA's), (11, 129936), (12, 129942), (14, 129957), (16, 129972), (18, 130005), (19, 130020), (24, 130059), (25, 130074), (30, 130116), (32, 130140), (33, 130149),

Gene: Comrade_1 Start: 127, Stop: 417, Start Num: 6
Candidate Starts for Comrade_1:
(Start: 6 @127 has 44 MA's), (8, 148), (9, 175), (10, 193), (13, 208), (23, 316), (24, 328), (25, 343), (28, 379),

Gene: Comrade_264 Start: 128408, Stop: 128698, Start Num: 6
Candidate Starts for Comrade_264:
(Start: 6 @128408 has 44 MA's), (8, 128429), (9, 128456), (10, 128474), (13, 128489), (23, 128597), (24, 128609), (25, 128624), (28, 128660),

Gene: Emma1919_1 Start: 166, Stop: 450, Start Num: 6
Candidate Starts for Emma1919_1:
(Start: 6 @166 has 44 MA's), (15, 259), (21, 331), (24, 361), (25, 376), (28, 412),

Gene: Emma1919_268 Start: 127476, Stop: 127760, Start Num: 6
Candidate Starts for Emma1919_268:
(Start: 6 @127476 has 44 MA's), (15, 127569), (21, 127641), (24, 127671), (25, 127686), (28, 127722),

Gene: Faust_1 Start: 167, Stop: 460, Start Num: 6
Candidate Starts for Faust_1:
(Start: 6 @167 has 44 MA's), (7, 179), (8, 188), (19, 323), (20, 329), (22, 344), (24, 368), (26, 407), (28, 419),

Gene: Faust_273 Start: 130061, Stop: 130354, Start Num: 6
Candidate Starts for Faust_273:

(Start: 6 @130061 has 44 MA's), (7, 130073), (8, 130082), (19, 130217), (20, 130223), (22, 130238), (24, 130262), (26, 130301), (28, 130313),

Gene: Forrest_1 Start: 166, Stop: 447, Start Num: 6
Candidate Starts for Forrest_1:
(Start: 6 @166 has 44 MA's), (15, 259), (21, 331), (24, 361), (25, 376), (28, 412),

Gene: Forrest_266 Start: 127913, Stop: 128194, Start Num: 6
Candidate Starts for Forrest_266:
(Start: 6 @127913 has 44 MA's), (15, 128006), (21, 128078), (24, 128108), (25, 128123), (28, 128159),

Gene: Francob_270 Start: 128201, Stop: 128482, Start Num: 6
Candidate Starts for Francob_270:
(Start: 6 @128201 has 44 MA's), (15, 128294), (21, 128366), (24, 128396), (25, 128411), (28, 128447), (31, 128468),

Gene: Francob_1 Start: 166, Stop: 447, Start Num: 6
Candidate Starts for Francob_1:
(Start: 6 @166 has 44 MA's), (15, 259), (21, 331), (24, 361), (25, 376), (28, 412), (31, 433),

Gene: Gilson_267 Start: 127738, Stop: 128019, Start Num: 6
Candidate Starts for Gilson_267:
(Start: 6 @127738 has 44 MA's), (15, 127831), (21, 127903), (24, 127933), (25, 127948), (28, 127984),

Gene: Gilson_1 Start: 166, Stop: 447, Start Num: 6
Candidate Starts for Gilson_1:
(Start: 6 @166 has 44 MA's), (15, 259), (21, 331), (24, 361), (25, 376), (28, 412),

Gene: Jada_1 Start: 166, Stop: 447, Start Num: 6
Candidate Starts for Jada_1:
(Start: 6 @166 has 44 MA's), (15, 259), (21, 331), (24, 361), (25, 376), (28, 412),

Gene: Jada_267 Start: 127153, Stop: 127434, Start Num: 6
Candidate Starts for Jada_267:
(Start: 6 @127153 has 44 MA's), (15, 127246), (21, 127318), (24, 127348), (25, 127363), (28, 127399),

Gene: Karp_269 Start: 129950, Stop: 130237, Start Num: 6
Candidate Starts for Karp_269:
(2, 129824), (3, 129878), (Start: 6 @129950 has 44 MA's), (8, 129971), (9, 129998), (10, 130016), (13, 130031), (23, 130139), (24, 130151), (25, 130166), (28, 130202),

Gene: Karp_1 Start: 127, Stop: 414, Start Num: 6
Candidate Starts for Karp_1:
(2, 1), (3, 55), (Start: 6 @127 has 44 MA's), (8, 148), (9, 175), (10, 193), (13, 208), (23, 316), (24, 328), (25, 343), (28, 379),

Gene: Kenrey_273 Start: 128954, Stop: 129235, Start Num: 6
Candidate Starts for Kenrey_273:
(Start: 6 @128954 has 44 MA's), (11, 129020), (15, 129047), (21, 129119), (24, 129149), (25, 129164), (28, 129200),

Gene: Kenrey_1 Start: 166, Stop: 447, Start Num: 6
Candidate Starts for Kenrey_1:
(Start: 6 @166 has 44 MA's), (11, 232), (15, 259), (21, 331), (24, 361), (25, 376), (28, 412),

Gene: Limpid_270 Start: 130429, Stop: 130725, Start Num: 6
Candidate Starts for Limpid_270:
(Start: 6 @130429 has 44 MA's), (12, 130507), (14, 130522), (16, 130537), (18, 130570), (19, 130585), (24, 130624), (25, 130639), (30, 130681), (32, 130705), (33, 130714),

Gene: Limpid_1 Start: 179, Stop: 475, Start Num: 6
Candidate Starts for Limpid_1:
(Start: 6 @179 has 44 MA's), (12, 257), (14, 272), (16, 287), (18, 320), (19, 335), (24, 374), (25, 389), (30, 431), (32, 455), (33, 464),

Gene: MeganTheeKilla_1 Start: 166, Stop: 447, Start Num: 6
Candidate Starts for MeganTheeKilla_1:
(Start: 6 @166 has 44 MA's), (11, 232), (15, 259), (21, 331), (24, 361), (25, 376), (28, 412),

Gene: MeganTheeKilla_269 Start: 127552, Stop: 127833, Start Num: 6
Candidate Starts for MeganTheeKilla_269:
(Start: 6 @127552 has 44 MA's), (11, 127618), (15, 127645), (21, 127717), (24, 127747), (25, 127762), (28, 127798),

Gene: Moab_268 Start: 128792, Stop: 129091, Start Num: 6
Candidate Starts for Moab_268:
(1, 128657), (3, 128714), (4, 128777), (Start: 6 @128792 has 44 MA's), (8, 128813), (10, 128852), (15, 128882), (22, 128960), (25, 128996), (27, 129026), (28, 129032),

Gene: Moab_1 Start: 134, Stop: 433, Start Num: 6
Candidate Starts for Moab_1:
(3, 56), (4, 119), (Start: 6 @134 has 44 MA's), (8, 155), (10, 194), (15, 224), (22, 302), (25, 338), (27, 368), (28, 374),

Gene: Patelgo_1 Start: 134, Stop: 433, Start Num: 6
Candidate Starts for Patelgo_1:
(3, 56), (4, 119), (Start: 6 @134 has 44 MA's), (8, 155), (10, 194), (15, 224), (22, 302), (25, 338), (27, 368), (28, 374),

Gene: Patelgo_271 Start: 129724, Stop: 130023, Start Num: 6
Candidate Starts for Patelgo_271:
(1, 129589), (3, 129646), (4, 129709), (Start: 6 @129724 has 44 MA's), (8, 129745), (10, 129784), (15, 129814), (22, 129892), (25, 129928), (27, 129958), (28, 129964),

Gene: Phredrick_273 Start: 128273, Stop: 128557, Start Num: 6
Candidate Starts for Phredrick_273:
(Start: 6 @128273 has 44 MA's), (15, 128366), (21, 128438), (24, 128468), (25, 128483), (28, 128519),

Gene: Phredrick_1 Start: 165, Stop: 449, Start Num: 6
Candidate Starts for Phredrick_1:
(Start: 6 @165 has 44 MA's), (15, 258), (21, 330), (24, 360), (25, 375), (28, 411),

Gene: SeresaTree_1 Start: 167, Stop: 460, Start Num: 6
Candidate Starts for SeresaTree_1:
(Start: 6 @167 has 44 MA's), (7, 179), (8, 188), (19, 323), (20, 329), (22, 344), (24, 368), (26, 407), (28, 419),

Gene: SeresaTree_278 Start: 130289, Stop: 130582, Start Num: 6
Candidate Starts for SeresaTree_278:
(Start: 6 @130289 has 44 MA's), (7, 130301), (8, 130310), (19, 130445), (20, 130451), (22, 130466), (24, 130490), (26, 130529), (28, 130541),

Gene: Sham_1 Start: 187, Stop: 474, Start Num: 6
Candidate Starts for Sham_1:
(Start: 6 @187 has 44 MA's), (8, 208), (17, 298), (24, 382), (26, 421), (29, 439),

Gene: Sham_260 Start: 129727, Stop: 130014, Start Num: 6
Candidate Starts for Sham_260:
(Start: 6 @129727 has 44 MA's), (8, 129748), (17, 129838), (24, 129922), (26, 129961), (29, 129979),

Gene: SparkleGoddess_267 Start: 129135, Stop: 129422, Start Num: 6
Candidate Starts for SparkleGoddess_267:
(Start: 6 @129135 has 44 MA's), (8, 129156), (9, 129183), (10, 129201), (13, 129216), (23, 129324), (24, 129336), (25, 129351), (28, 129387),

Gene: SparkleGoddess_1 Start: 127, Stop: 414, Start Num: 6
Candidate Starts for SparkleGoddess_1:
(Start: 6 @127 has 44 MA's), (8, 148), (9, 175), (10, 193), (13, 208), (23, 316), (24, 328), (25, 343), (28, 379),

Gene: Stigma_266 Start: 128848, Stop: 129135, Start Num: 6
Candidate Starts for Stigma_266:
(2, 128722), (3, 128776), (Start: 6 @128848 has 44 MA's), (8, 128869), (9, 128896), (10, 128914), (13, 128929), (24, 129049), (25, 129064), (28, 129100),

Gene: Stigma_1 Start: 127, Stop: 414, Start Num: 6
Candidate Starts for Stigma_1:
(2, 1), (3, 55), (Start: 6 @127 has 44 MA's), (8, 148), (9, 175), (10, 193), (13, 208), (24, 328), (25, 343), (28, 379),

Gene: TunaTartare_1 Start: 177, Stop: 464, Start Num: 6
Candidate Starts for TunaTartare_1:
(Start: 6 @177 has 44 MA's), (8, 198), (24, 372), (26, 411), (28, 423),

Gene: TunaTartare_266 Start: 130329, Stop: 130616, Start Num: 6
Candidate Starts for TunaTartare_266:
(Start: 6 @130329 has 44 MA's), (8, 130350), (24, 130524), (26, 130563), (28, 130575),