

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 294443 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294443 has 197 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Marsus_264, Marsus_7
- Track 2 : Watermoore_7, Coogler_7, Cursive_259, Sushi23_258, EGole_7, BlueOtter_7, HangryHippo_7, Watermoore_254, Sushi23_8, BlueOtter_255, HangryHippo_255, Peebs_254, Peebs_7, Leo04_258, Lululemon_253, Cross_7, Tribute_253, Lululemon_6, PacManQ_253, EGole_261, Larnav_7, Larnav_257, Teutsch_7, Leo04_7, Pepperwood_257, Cursive_5, Teutsch_254, PacManQ_6, Tribute_7, Cross_255, Coogler_253, Pepperwood_8, Samisti12_258, Scheme_8, Scheme_261, Samisti12_7
- Track 3 : Jay2Jay_9, Jay2Jay_264
- Track 4 : Eliot67_7, WhereRU_6, PinkiePie_7, Braelyn_7, Bartholomune_7, Persimmon_257, Persimmon_6, Paradiddles_7, Davielle_6, Eliot67_258, NootNoot_7, Squillium_7, Braelyn_252, Bartholomune_257, Liandry_256, WhereRU_255, FreddyDRoo_260, NootNoot_252, Navo_248, Paradiddles_248, Liandry_7, FreddyDRoo_7, Davielle_255, PinkiePie_257, Navo_6, Squillium_259
- Track 5 : Angela_264, Angela_7
- Track 6 : Riptide_262, Riptide_7, Anedea_7, Anedea_272
- Track 7 : Shuckle_7, Shuckle_255
- Track 8 : Cadmus_255, Daubenski_252, Daubenski_8, Cadmus_7
- Track 9 : Targaryen_7, Evy_245, Evy_7, Targaryen_258
- Track 10 : Mildred21_7, Mildred21_270
- Track 11 : Warpy_261, Warpy_9
- Track 12 : MulchMansion_263, LilMartin_259, MulchMansion_7, LilMartin_7
- Track 13 : LilSaint_8, Bmoc_263, Bmoc_7, LilSaint_261
- Track 14 : MindFlayer_6, Gibbi_6, Brizzy_6, Karimac_7, Starbow_7, Battuta_7, Rikishi_268, Spilled_6, SaltySpitooon_7, Jollison_264, PumpkinSpice_7, KentuckyRacer_274, PumpkinSpice_271, Starbow_264, MindFlayer_258, Quaran19_268, Rikishi_6, TomSawyer_272, JimJam_275, CeilingFan_272, Wipeout_259, KentuckyRacer_6, Bordeaux_7, Karimac_265, Spelly_273, TomSawyer_7, CeilingFan_6, Gibbi_277, Bordeaux_264, Amabiko_7, Battuta_264, Wipeout_6, Birchlyn_264, Birchlyn_4, Spilled_274, Amabiko_271, SaltySpitooon_267, Brizzy_264, Jollison_7, Spelly_7, JimJam_7, Quaran19_7, IchabodCrane_259, IchabodCrane_6
- Track 15 : StarPlatinum_6, StarPlatinum_276
- Track 16 : Yaboi_8, Yaboi_269, Genie2_8, Stanimal_8, AngryGiraffe_8, Sollertia_8, Genie2_263, Stanimal_263, BoomerJR_8, BoomerJR_263, AngryGiraffe_264, Sollertia_264
- Track 17 : Wofford_265, Elmer_7, Wofford_7, Elmer_274

- Track 18 : Enygma_274, Enygma_6
- Track 19 : AcciDwight_277, AcciDwight_7
- Track 20 : LukeCage_269, LukeCage_6
- Track 21 : Mugiwara_273, Mugiwara_6
- Track 22 : Tomas_7, Tomas_263
- Track 23 : Belfort_216, Stigma_215, SparkleGoddess_216, Comrade_213, Westy_220
- Track 24 : Limpid_210, Annadreamy_203
- Track 25 : Maupel_219, DeluluLabubu_221, Jada_218, Gilson_216
- Track 26 : Moab_219, Patelgo_220
- Track 27 : Karp_212
- Track 28 : Phredrick_221, Kenrey_222
- Track 29 : Emma1919_219, MeganTheeKilla_221
- Track 30 : TunaTartare_216
- Track 31 : Blueeyedbeauty_212
- Track 32 : Faust_213, SeresaTree_217
- Track 33 : Beuffert_211
- Track 34 : Sham_208
- Track 35 : Francob_221
- Track 36 : Forrest_219
- Track 37 : Muntaha_238
- Track 38 : Circinus_223, BillNye_223
- Track 39 : Chaewon_226
- Track 40 : Wakanda_234

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

The start number called the most often in the published annotations is 8, it was called in 94 of the 186 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_277, AcciDwight_7, Amabiko_271, Amabiko_7, AngryGiraffe_264, AngryGiraffe_8, Annadreamy_203, Battuta_264, Battuta_7, Belfort_216, Beuffert_211, BillNye_223, Birchlyn_264, Birchlyn_4, Blueeyedbeauty_212, BoomerJR_263, BoomerJR_8, Bordeaux_264, Bordeaux_7, Brizzy_264, Brizzy_6, CeilingFan_272, CeilingFan_6, Chaewon_226, Circinus_223, Comrade_213, DeluluLabubu_221, Elmer_274, Elmer_7, Emma1919_219, Enygma_274, Enygma_6, Faust_213, Forrest_219, Francob_221, Genie2_263, Genie2_8, Gibbi_277, Gibbi_6, Gilson_216, IchabodCrane_259, IchabodCrane_6, Jada_218, JimJam_275, JimJam_7, Jollison_264, Jollison_7, Karimac_265, Karimac_7, Karp_212, KentuckyRacer_274, KentuckyRacer_6, Limpid_210, LukeCage_269, LukeCage_6, Maupel_219, MeganTheeKilla_221, MindFlayer_258, MindFlayer_6, Moab_219, Mugiwara_273, Mugiwara_6, Muntaha_238, Patelgo_220, PumpkinSpice_271, PumpkinSpice_7, Quaran19_268, Quaran19_7, Rikishi_268, Rikishi_6, SaltySpittoon_267, SaltySpittoon_7, SeresaTree_217, Sham_208, Sollertia_264, Sollertia_8, SparkleGoddess_216, Spelly_273, Spelly_7, Spilled_274, Spilled_6, Stanimal_263, Stanimal_8, StarPlatinum_276, StarPlatinum_6, Starbow_264, Starbow_7, Stigma_215, TomSawyer_272, TomSawyer_7, Tomas_263, Tomas_7, TunaTartare_216, Wakanda_234, Westy_220, Wipeout_259, Wipeout_6, Wofford_265, Wofford_7, Yaboi_269, Yaboi_8,

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

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

- Anedea_272, Anedea_7, Angela_264, Angela_7, Bartholomune_257, Bartholomune_7, BlueOtter_255, BlueOtter_7, Bmoc_263, Bmoc_7, Braelyn_252, Braelyn_7, Cadmus_255, Cadmus_7, Coogler_253, Coogler_7, Cross_255, Cross_7, Cursive_259, Cursive_5, Daubenski_252, Daubenski_8, Davielle_255, Davielle_6, EGole_261, EGole_7, Eliot67_258, Eliot67_7, Evy_245, Evy_7, FreddyDRoo_260, FreddyDRoo_7, HangryHippo_255, HangryHippo_7, Jay2Jay_264, Jay2Jay_9, Kenrey_222, Larnav_257, Larnav_7, Leo04_258, Leo04_7, Liandry_256, Liandry_7, LilMartin_259, LilMartin_7, LilSaint_261, LilSaint_8, Lululemon_253, Lululemon_6, Marsus_264, Marsus_7, Mildred21_270, Mildred21_7, MulchMansion_263, MulchMansion_7, Navo_248, Navo_6, NootNoot_252, NootNoot_7, PacManQ_253, PacManQ_6, Paradiddles_248, Paradiddles_7, Peebs_254, Peebs_7, Pepperwood_257, Pepperwood_8, Persimmon_257, Persimmon_6, Phredrick_221, PinkiePie_257, PinkiePie_7, Riptide_262, Riptide_7, Samisti12_258, Samisti12_7, Scheme_261, Scheme_8, Shuckle_255, Shuckle_7, Squillium_259, Squillium_7, Sushi23_258, Sushi23_8, Targaryen_258, Targaryen_7, Teutsch_254, Teutsch_7, Tribute_253, Tribute_7, Warpy_261, Warpy_9, Watermoore_254, Watermoore_7, WhereRU_255, WhereRU_6,

Summary by start number:

Start 3:

- Found in 8 of 197 (4.1%) of genes in pham
- Manual Annotations of this start: 4 of 186
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Jay2Jay_264 (BE1), Jay2Jay_9 (BE1), Warpy_261 (BE1), Warpy_9 (BE1),

Start 6:

- Found in 66 of 197 (33.5%) of genes in pham
- Manual Annotations of this start: 60 of 186
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Bartholomune_257 (BE1), Bartholomune_7 (BE1), BlueOtter_255 (BE1), BlueOtter_7 (BE1), Braelyn_252 (BE1), Braelyn_7 (BE1), Coogler_253 (BE1), Coogler_7 (BE1), Cross_255 (BE1), Cross_7 (BE1), Cursive_259 (BE1), Cursive_5 (BE1), Davielle_255 (BE1), Davielle_6 (BE1), EGole_261 (BE1), EGole_7 (BE1), Eliot67_258 (BE1), Eliot67_7 (BE1), FreddyDRoo_260 (BE1), FreddyDRoo_7 (BE1), HangryHippo_255 (BE1), HangryHippo_7 (BE1), Larnav_257 (BE1), Larnav_7 (BE1), Leo04_258 (BE1), Leo04_7 (BE1), Liandry_256 (BE1), Liandry_7 (BE1), Lululemon_253 (BE1), Lululemon_6 (BE1), Navo_248 (BE1), Navo_6 (BE1), NootNoot_252 (BE1), NootNoot_7 (BE1), PacManQ_253 (BE1), PacManQ_6 (BE1), Paradiddles_248 (BE1), Paradiddles_7 (BE1), Peebs_254 (BE1), Peebs_7 (BE1), Pepperwood_257 (BE1), Pepperwood_8 (BE1), Persimmon_257 (BE1), Persimmon_6 (BE1), PinkiePie_257 (BE1), PinkiePie_7 (BE1), Samisti12_258 (BE1), Samisti12_7 (BE1), Scheme_261 (BE1), Scheme_8 (BE1), Shuckle_255 (BE1), Shuckle_7 (BE1), Squillium_259 (BE1), Squillium_7 (BE1), Sushi23_258 (BE1), Sushi23_8 (BE1), Teutsch_254 (BE1), Teutsch_7 (BE1), Tribute_253 (BE1), Tribute_7 (BE1), Watermoore_254 (BE1), Watermoore_7 (BE1), WhereRU_255 (BE1), WhereRU_6

(BE1),

Start 7:

- Found in 26 of 197 (13.2%) of genes in pham
- Manual Annotations of this start: 22 of 186
- Called 84.6% of time when present
- Phage (with cluster) where this start called: Anedea_272 (BE1), Anedea_7 (BE1), Angela_264 (BE1), Angela_7 (BE1), Bmoc_263 (BE1), Bmoc_7 (BE1), Evy_245 (BE1), Evy_7 (BE1), LilMartin_259 (BE1), LilMartin_7 (BE1), LilSaint_261 (BE1), LilSaint_8 (BE1), Marsus_264 (BE1), Marsus_7 (BE1), Mildred21_270 (BE1), Mildred21_7 (BE1), MulchMansion_263 (BE1), MulchMansion_7 (BE1), Riptide_262 (BE1), Riptide_7 (BE1), Targaryen_258 (BE1), Targaryen_7 (BE1),

Start 8:

- Found in 101 of 197 (51.3%) of genes in pham
- Manual Annotations of this start: 94 of 186
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_277 (BE2), AcciDwight_7 (BE2), Amabiko_271 (BE2), Amabiko_7 (BE2), AngryGiraffe_264 (BE2), AngryGiraffe_8 (BE2), Annadreamy_203 (BK1), Battuta_264 (BE2), Battuta_7 (BE2), Belfort_216 (BK1), Beuffert_211 (BK1), BillNye_223 (BK2), Birchlyn_264 (BE2), Birchlyn_4 (BE2), Blueeyedbeauty_212 (BK1), BoomerJR_263 (BE2), BoomerJR_8 (BE2), Bordeaux_264 (BE2), Bordeaux_7 (BE2), Brizzy_264 (BE2), Brizzy_6 (BE2), CeilingFan_272 (BE2), CeilingFan_6 (BE2), Chaewon_226 (BK2), Circinus_223 (BK2), Comrade_213 (BK1), DeluluLabubu_221 (BK1), Elmer_274 (BE2), Elmer_7 (BE2), Emma1919_219 (BK1), Enygma_274 (BE2), Enygma_6 (BE2), Faust_213 (BK1), Forrest_219 (BK1), Francob_221 (BK1), Genie2_263 (BE2), Genie2_8 (BE2), Gibbi_277 (BE2), Gibbi_6 (BE2), Gilson_216 (BK1), IchabodCrane_259 (BE2), IchabodCrane_6 (BE2), Jada_218 (BK1), JimJam_275 (BE2), JimJam_7 (BE2), Jollison_264 (BE2), Jollison_7 (BE2), Karimac_265 (BE2), Karimac_7 (BE2), Karp_212 (BK1), KentuckyRacer_274 (BE2), KentuckyRacer_6 (BE2), Limpid_210 (BK1), LukeCage_269 (BE2), LukeCage_6 (BE2), Maupel_219 (BK1), MeganTheeKilla_221 (BK1), MindFlayer_258 (BE2), MindFlayer_6 (BE2), Moab_219 (BK1), Mugiwara_273 (BE2), Mugiwara_6 (BE2), Muntaha_238 (BK2), Patelgo_220 (BK1), PumpkinSpice_271 (BE2), PumpkinSpice_7 (BE2), Quarant19_268 (BE2), Quarant19_7 (BE2), Rikishi_268 (BE2), Rikishi_6 (BE2), SaltySpittoon_267 (BE2), SaltySpittoon_7 (BE2), SeresaTree_217 (BK1), Sham_208 (BK1), Sollertia_264 (BE2), Sollertia_8 (BE2), SparkleGoddess_216 (BK1), Spelly_273 (BE2), Spelly_7 (BE2), Spilled_274 (BE2), Spilled_6 (BE2), Stanimal_263 (BE2), Stanimal_8 (BE2), StarPlatinum_276 (BE2), StarPlatinum_6 (BE2), Starbow_264 (BE2), Starbow_7 (BE2), Stigma_215 (BK1), TomSawyer_272 (BE2), TomSawyer_7 (BE2), Tomas_263 (BE2), Tomas_7 (BE2), TunaTartare_216 (BK1), Wakanda_234 (BK2), Westy_220 (BK1), Wipeout_259 (BE2), Wipeout_6 (BE2), Wofford_265 (BE2), Wofford_7 (BE2), Yaboi_269 (BE2), Yaboi_8 (BE2),

Start 9:

- Found in 6 of 197 (3.0%) of genes in pham
- Manual Annotations of this start: 6 of 186
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cadmus_255 (BE1), Cadmus_7 (BE1), Daubenski_252 (BE1), Daubenski_8 (BE1), Kenrey_222 (BK1), Phredrick_221 (BK1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 3 was manually annotated 4 times for cluster BE1.
- Start number 6 was manually annotated 60 times for cluster BE1.
- Start number 7 was manually annotated 22 times for cluster BE1.
- Start number 9 was manually annotated 4 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 8 was manually annotated 68 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 8 was manually annotated 22 times for cluster BK1.
- Start number 9 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 8 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: AcciDwight_277 Start: 124520, Stop: 124008, Start Num: 8

Candidate Starts for AcciDwight_277:

(Start: 8 @124520 has 94 MA's), (14, 124475), (15, 124457), (47, 124142), (49, 124118), (55, 124046), (56, 124043),

Gene: AcciDwight_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for AcciDwight_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: Amabiko_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for Amabiko_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: Amabiko_271 Start: 123250, Stop: 122738, Start Num: 8

Candidate Starts for Amabiko_271:

(Start: 8 @123250 has 94 MA's), (14, 123205), (15, 123187), (28, 123061), (47, 122872), (49, 122848), (55, 122776), (56, 122773),

Gene: Anedea_7 Start: 4666, Stop: 4148, Start Num: 7

Candidate Starts for Anedea_7:

(Start: 7 @4666 has 22 MA's), (10, 4657), (15, 4600), (17, 4552), (34, 4405), (42, 4339), (55, 4186), (56, 4183), (57, 4174), (58, 4168),

Gene: Anedea_272 Start: 127715, Stop: 127197, Start Num: 7

Candidate Starts for Anedea_272:

(Start: 7 @127715 has 22 MA's), (10, 127706), (15, 127649), (17, 127601), (34, 127454), (42, 127388), (55, 127235), (56, 127232), (57, 127223), (58, 127217),

Gene: Angela_264 Start: 127039, Stop: 126518, Start Num: 7

Candidate Starts for Angela_264:

(Start: 7 @127039 has 22 MA's), (11, 127027), (15, 126970), (17, 126922), (28, 126838), (31, 126811), (34, 126775), (56, 126553), (57, 126544),

Gene: Angela_7 Start: 4636, Stop: 4115, Start Num: 7

Candidate Starts for Angela_7:

(Start: 7 @4636 has 22 MA's), (11, 4624), (15, 4567), (17, 4519), (28, 4435), (31, 4408), (34, 4372), (56, 4150), (57, 4141),

Gene: AngryGiraffe_8 Start: 4398, Stop: 3886, Start Num: 8

Candidate Starts for AngryGiraffe_8:

(Start: 8 @4398 has 94 MA's), (14, 4353), (15, 4335), (19, 4266), (35, 4113), (40, 4089), (48, 4014),

Gene: AngryGiraffe_264 Start: 122741, Stop: 122229, Start Num: 8

Candidate Starts for AngryGiraffe_264:

(Start: 8 @122741 has 94 MA's), (14, 122696), (15, 122678), (19, 122609), (35, 122456), (40, 122432), (48, 122357),

Gene: Annadreamy_203 Start: 102370, Stop: 102954, Start Num: 8

Candidate Starts for Annadreamy_203:

(Start: 8 @102370 has 94 MA's), (13, 102394), (17, 102478), (24, 102553), (44, 102757), (50, 102832), (54, 102868), (59, 102931), (60, 102934),

Gene: Bartholomune_7 Start: 4222, Stop: 3704, Start Num: 6

Candidate Starts for Bartholomune_7:

(Start: 6 @4222 has 60 MA's), (11, 4210), (15, 4153), (31, 3997), (34, 3961), (42, 3895), (53, 3790), (55, 3742), (56, 3739), (57, 3730),

Gene: Bartholomune_257 Start: 125321, Stop: 124803, Start Num: 6

Candidate Starts for Bartholomune_257:

(Start: 6 @125321 has 60 MA's), (11, 125309), (15, 125252), (31, 125096), (34, 125060), (42, 124994), (53, 124889), (55, 124841), (56, 124838), (57, 124829),

Gene: Battuta_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for Battuta_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: Battuta_264 Start: 122579, Stop: 122067, Start Num: 8

Candidate Starts for Battuta_264:

(Start: 8 @122579 has 94 MA's), (14, 122534), (15, 122516), (28, 122390), (47, 122201), (49, 122177), (55, 122105), (56, 122102),

Gene: Belfort_216 Start: 107020, Stop: 107592, Start Num: 8

Candidate Starts for Belfort_216:

(Start: 8 @107020 has 94 MA's), (17, 107125), (37, 107365), (39, 107368), (45, 107404), (46, 107410), (60, 107572),

Gene: Beuffert_211 Start: 106544, Stop: 107125, Start Num: 8

Candidate Starts for Beuffert_211:

(Start: 8 @106544 has 94 MA's), (12, 106565), (14, 106589), (17, 106652), (23, 106724), (33, 106835), (44, 106928), (50, 107003), (51, 107009), (54, 107039), (59, 107102), (60, 107105),

Gene: BillNye_223 Start: 114572, Stop: 115123, Start Num: 8
Candidate Starts for BillNye_223:
(Start: 8 @114572 has 94 MA's), (41, 114905), (45, 114935), (46, 114941), (60, 115103),

Gene: Birchlyn_264 Start: 118368, Stop: 117856, Start Num: 8
Candidate Starts for Birchlyn_264:
(Start: 8 @118368 has 94 MA's), (14, 118323), (15, 118305), (28, 118179), (47, 117990), (49, 117966),
(55, 117894), (56, 117891),

Gene: Birchlyn_4 Start: 2277, Stop: 1765, Start Num: 8
Candidate Starts for Birchlyn_4:
(Start: 8 @2277 has 94 MA's), (14, 2232), (15, 2214), (28, 2088), (47, 1899), (49, 1875), (55, 1803),
(56, 1800),

Gene: BlueOtter_7 Start: 4574, Stop: 4056, Start Num: 6
Candidate Starts for BlueOtter_7:
(Start: 6 @4574 has 60 MA's), (11, 4562), (15, 4505), (27, 4379), (28, 4376), (32, 4343), (34, 4313),
(38, 4259), (42, 4247), (53, 4142), (55, 4094), (56, 4091), (57, 4082),

Gene: BlueOtter_255 Start: 125661, Stop: 125143, Start Num: 6
Candidate Starts for BlueOtter_255:
(Start: 6 @125661 has 60 MA's), (11, 125649), (15, 125592), (27, 125466), (28, 125463), (32, 125430),
(34, 125400), (38, 125346), (42, 125334), (53, 125229), (55, 125181), (56, 125178), (57, 125169),

Gene: Blueeyedbeauty_212 Start: 106098, Stop: 106682, Start Num: 8
Candidate Starts for Blueeyedbeauty_212:
(Start: 8 @106098 has 94 MA's), (17, 106206), (36, 106446), (37, 106452), (44, 106485), (50, 106560),
(54, 106596), (59, 106659), (60, 106662),

Gene: Bmoc_263 Start: 126520, Stop: 126002, Start Num: 7
Candidate Starts for Bmoc_263:
(Start: 7 @126520 has 22 MA's), (10, 126511), (15, 126454), (17, 126406), (34, 126259), (35, 126226),
(55, 126040), (56, 126037), (57, 126028),

Gene: Bmoc_7 Start: 4698, Stop: 4180, Start Num: 7
Candidate Starts for Bmoc_7:
(Start: 7 @4698 has 22 MA's), (10, 4689), (15, 4632), (17, 4584), (34, 4437), (35, 4404), (55, 4218),
(56, 4215), (57, 4206),

Gene: BoomerJR_8 Start: 4398, Stop: 3886, Start Num: 8
Candidate Starts for BoomerJR_8:
(Start: 8 @4398 has 94 MA's), (14, 4353), (15, 4335), (19, 4266), (35, 4113), (40, 4089), (48, 4014),

Gene: BoomerJR_263 Start: 123186, Stop: 122674, Start Num: 8
Candidate Starts for BoomerJR_263:
(Start: 8 @123186 has 94 MA's), (14, 123141), (15, 123123), (19, 123054), (35, 122901), (40, 122877),
(48, 122802),

Gene: Bordeaux_7 Start: 4424, Stop: 3912, Start Num: 8
Candidate Starts for Bordeaux_7:
(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950),
(56, 3947),

Gene: Bordeaux_264 Start: 123162, Stop: 122650, Start Num: 8

Candidate Starts for Bordeaux_264:

(Start: 8 @123162 has 94 MA's), (14, 123117), (15, 123099), (28, 122973), (47, 122784), (49, 122760), (55, 122688), (56, 122685),

Gene: Braelyn_7 Start: 4234, Stop: 3716, Start Num: 6

Candidate Starts for Braelyn_7:

(Start: 6 @4234 has 60 MA's), (11, 4222), (15, 4165), (31, 4009), (34, 3973), (42, 3907), (53, 3802), (55, 3754), (56, 3751), (57, 3742),

Gene: Braelyn_252 Start: 124644, Stop: 124126, Start Num: 6

Candidate Starts for Braelyn_252:

(Start: 6 @124644 has 60 MA's), (11, 124632), (15, 124575), (31, 124419), (34, 124383), (42, 124317), (53, 124212), (55, 124164), (56, 124161), (57, 124152),

Gene: Brizzy_6 Start: 4013, Stop: 3501, Start Num: 8

Candidate Starts for Brizzy_6:

(Start: 8 @4013 has 94 MA's), (14, 3968), (15, 3950), (28, 3824), (47, 3635), (49, 3611), (55, 3539), (56, 3536),

Gene: Brizzy_264 Start: 123281, Stop: 122769, Start Num: 8

Candidate Starts for Brizzy_264:

(Start: 8 @123281 has 94 MA's), (14, 123236), (15, 123218), (28, 123092), (47, 122903), (49, 122879), (55, 122807), (56, 122804),

Gene: Cadmus_255 Start: 127079, Stop: 126564, Start Num: 9

Candidate Starts for Cadmus_255:

(Start: 9 @127079 has 6 MA's), (11, 127073), (15, 127013), (18, 126962), (32, 126851), (34, 126821), (42, 126755), (44, 126740), (55, 126602), (56, 126599), (57, 126590),

Gene: Cadmus_7 Start: 4598, Stop: 4083, Start Num: 9

Candidate Starts for Cadmus_7:

(Start: 9 @4598 has 6 MA's), (11, 4592), (15, 4532), (18, 4481), (32, 4370), (34, 4340), (42, 4274), (44, 4259), (55, 4121), (56, 4118), (57, 4109),

Gene: CeilingFan_272 Start: 124642, Stop: 124130, Start Num: 8

Candidate Starts for CeilingFan_272:

(Start: 8 @124642 has 94 MA's), (14, 124597), (15, 124579), (28, 124453), (47, 124264), (49, 124240), (55, 124168), (56, 124165),

Gene: CeilingFan_6 Start: 4035, Stop: 3523, Start Num: 8

Candidate Starts for CeilingFan_6:

(Start: 8 @4035 has 94 MA's), (14, 3990), (15, 3972), (28, 3846), (47, 3657), (49, 3633), (55, 3561), (56, 3558),

Gene: Chaewon_226 Start: 114985, Stop: 115536, Start Num: 8

Candidate Starts for Chaewon_226:

(Start: 8 @114985 has 94 MA's), (17, 115090), (41, 115318), (44, 115339), (46, 115354), (51, 115420), (60, 115516),

Gene: Circinus_223 Start: 114162, Stop: 114713, Start Num: 8

Candidate Starts for Circinus_223:

(Start: 8 @114162 has 94 MA's), (41, 114495), (45, 114525), (46, 114531), (60, 114693),

Gene: Comrade_213 Start: 107220, Stop: 107792, Start Num: 8

Candidate Starts for Comrade_213:

(Start: 8 @107220 has 94 MA's), (17, 107325), (37, 107565), (39, 107568), (45, 107604), (46, 107610), (60, 107772),

Gene: Coogler_7 Start: 4574, Stop: 4056, Start Num: 6

Candidate Starts for Coogler_7:

(Start: 6 @4574 has 60 MA's), (11, 4562), (15, 4505), (27, 4379), (28, 4376), (32, 4343), (34, 4313), (38, 4259), (42, 4247), (53, 4142), (55, 4094), (56, 4091), (57, 4082),

Gene: Coogler_253 Start: 126086, Stop: 125568, Start Num: 6

Candidate Starts for Coogler_253:

(Start: 6 @126086 has 60 MA's), (11, 126074), (15, 126017), (27, 125891), (28, 125888), (32, 125855), (34, 125825), (38, 125771), (42, 125759), (53, 125654), (55, 125606), (56, 125603), (57, 125594),

Gene: Cross_7 Start: 4574, Stop: 4056, Start Num: 6

Candidate Starts for Cross_7:

(Start: 6 @4574 has 60 MA's), (11, 4562), (15, 4505), (27, 4379), (28, 4376), (32, 4343), (34, 4313), (38, 4259), (42, 4247), (53, 4142), (55, 4094), (56, 4091), (57, 4082),

Gene: Cross_255 Start: 126306, Stop: 125788, Start Num: 6

Candidate Starts for Cross_255:

(Start: 6 @126306 has 60 MA's), (11, 126294), (15, 126237), (27, 126111), (28, 126108), (32, 126075), (34, 126045), (38, 125991), (42, 125979), (53, 125874), (55, 125826), (56, 125823), (57, 125814),

Gene: Cursive_259 Start: 125401, Stop: 124883, Start Num: 6

Candidate Starts for Cursive_259:

(Start: 6 @125401 has 60 MA's), (11, 125389), (15, 125332), (27, 125206), (28, 125203), (32, 125170), (34, 125140), (38, 125086), (42, 125074), (53, 124969), (55, 124921), (56, 124918), (57, 124909),

Gene: Cursive_5 Start: 3392, Stop: 2874, Start Num: 6

Candidate Starts for Cursive_5:

(Start: 6 @3392 has 60 MA's), (11, 3380), (15, 3323), (27, 3197), (28, 3194), (32, 3161), (34, 3131), (38, 3077), (42, 3065), (53, 2960), (55, 2912), (56, 2909), (57, 2900),

Gene: Daubenski_252 Start: 126972, Stop: 126457, Start Num: 9

Candidate Starts for Daubenski_252:

(Start: 9 @126972 has 6 MA's), (11, 126966), (15, 126906), (18, 126855), (32, 126744), (34, 126714), (42, 126648), (44, 126633), (55, 126495), (56, 126492), (57, 126483),

Gene: Daubenski_8 Start: 4596, Stop: 4081, Start Num: 9

Candidate Starts for Daubenski_8:

(Start: 9 @4596 has 6 MA's), (11, 4590), (15, 4530), (18, 4479), (32, 4368), (34, 4338), (42, 4272), (44, 4257), (55, 4119), (56, 4116), (57, 4107),

Gene: Davielle_6 Start: 4020, Stop: 3502, Start Num: 6

Candidate Starts for Davielle_6:

(Start: 6 @4020 has 60 MA's), (11, 4008), (15, 3951), (31, 3795), (34, 3759), (42, 3693), (53, 3588), (55, 3540), (56, 3537), (57, 3528),

Gene: Davielle_255 Start: 125180, Stop: 124662, Start Num: 6

Candidate Starts for Davielle_255:

(Start: 6 @125180 has 60 MA's), (11, 125168), (15, 125111), (31, 124955), (34, 124919), (42, 124853), (53, 124748), (55, 124700), (56, 124697), (57, 124688),

Gene: DeluluLabubu_221 Start: 107254, Stop: 107832, Start Num: 8

Candidate Starts for DeluluLabubu_221:

(Start: 8 @107254 has 94 MA's), (17, 107359), (18, 107362), (25, 107446), (36, 107599), (42, 107617), (45, 107644), (50, 107710), (54, 107746), (60, 107812),

Gene: EGole_7 Start: 4994, Stop: 4476, Start Num: 6

Candidate Starts for EGole_7:

(Start: 6 @4994 has 60 MA's), (11, 4982), (15, 4925), (27, 4799), (28, 4796), (32, 4763), (34, 4733), (38, 4679), (42, 4667), (53, 4562), (55, 4514), (56, 4511), (57, 4502),

Gene: EGole_261 Start: 129306, Stop: 128788, Start Num: 6

Candidate Starts for EGole_261:

(Start: 6 @129306 has 60 MA's), (11, 129294), (15, 129237), (27, 129111), (28, 129108), (32, 129075), (34, 129045), (38, 128991), (42, 128979), (53, 128874), (55, 128826), (56, 128823), (57, 128814),

Gene: Eliot67_7 Start: 4222, Stop: 3704, Start Num: 6

Candidate Starts for Eliot67_7:

(Start: 6 @4222 has 60 MA's), (11, 4210), (15, 4153), (31, 3997), (34, 3961), (42, 3895), (53, 3790), (55, 3742), (56, 3739), (57, 3730),

Gene: Eliot67_258 Start: 125036, Stop: 124518, Start Num: 6

Candidate Starts for Eliot67_258:

(Start: 6 @125036 has 60 MA's), (11, 125024), (15, 124967), (31, 124811), (34, 124775), (42, 124709), (53, 124604), (55, 124556), (56, 124553), (57, 124544),

Gene: Elmer_7 Start: 4303, Stop: 3791, Start Num: 8

Candidate Starts for Elmer_7:

(Start: 8 @4303 has 94 MA's), (14, 4258), (15, 4240), (19, 4171), (35, 4018), (40, 3994), (47, 3925), (49, 3901), (55, 3829), (56, 3826),

Gene: Elmer_274 Start: 126671, Stop: 126159, Start Num: 8

Candidate Starts for Elmer_274:

(Start: 8 @126671 has 94 MA's), (14, 126626), (15, 126608), (19, 126539), (35, 126386), (40, 126362), (47, 126293), (49, 126269), (55, 126197), (56, 126194),

Gene: Emma1919_219 Start: 105779, Stop: 106354, Start Num: 8

Candidate Starts for Emma1919_219:

(Start: 8 @105779 has 94 MA's), (17, 105884), (25, 105968), (36, 106121), (42, 106139), (45, 106166), (50, 106232), (54, 106268), (60, 106334),

Gene: Enygma_274 Start: 126406, Stop: 125894, Start Num: 8

Candidate Starts for Enygma_274:

(Start: 8 @126406 has 94 MA's), (14, 126361), (15, 126343), (19, 126274), (28, 126217), (37, 126106), (40, 126097), (53, 125980),

Gene: Enygma_6 Start: 3982, Stop: 3470, Start Num: 8

Candidate Starts for Enygma_6:

(Start: 8 @3982 has 94 MA's), (14, 3937), (15, 3919), (19, 3850), (28, 3793), (37, 3682), (40, 3673), (53, 3556),

Gene: Evy_245 Start: 126422, Stop: 125901, Start Num: 7

Candidate Starts for Evy_245:

(Start: 3 @126479 has 4 MA's), (Start: 7 @126422 has 22 MA's), (11, 126410), (15, 126353), (17, 126305), (28, 126221), (31, 126194), (42, 126092), (53, 125987), (55, 125939), (56, 125936), (57, 125927),

Gene: Evy_7 Start: 4693, Stop: 4172, Start Num: 7

Candidate Starts for Evy_7:

(Start: 3 @4750 has 4 MA's), (Start: 7 @4693 has 22 MA's), (11, 4681), (15, 4624), (17, 4576), (28, 4492), (31, 4465), (42, 4363), (53, 4258), (55, 4210), (56, 4207), (57, 4198),

Gene: Faust_213 Start: 107734, Stop: 108315, Start Num: 8

Candidate Starts for Faust_213:

(Start: 8 @107734 has 94 MA's), (36, 108082), (50, 108193), (51, 108199), (59, 108292), (60, 108295),

Gene: Forrest_219 Start: 106744, Stop: 107319, Start Num: 8

Candidate Starts for Forrest_219:

(Start: 8 @106744 has 94 MA's), (17, 106849), (25, 106933), (36, 107086), (45, 107131), (50, 107197), (54, 107233), (60, 107299),

Gene: Francob_221 Start: 106785, Stop: 107360, Start Num: 8

Candidate Starts for Francob_221:

(4, 106725), (Start: 8 @106785 has 94 MA's), (17, 106890), (25, 106977), (36, 107130), (44, 107166), (45, 107175), (50, 107241), (54, 107277), (60, 107343),

Gene: FreddyDRoo_260 Start: 125036, Stop: 124518, Start Num: 6

Candidate Starts for FreddyDRoo_260:

(Start: 6 @125036 has 60 MA's), (11, 125024), (15, 124967), (31, 124811), (34, 124775), (42, 124709), (53, 124604), (55, 124556), (56, 124553), (57, 124544),

Gene: FreddyDRoo_7 Start: 4222, Stop: 3704, Start Num: 6

Candidate Starts for FreddyDRoo_7:

(Start: 6 @4222 has 60 MA's), (11, 4210), (15, 4153), (31, 3997), (34, 3961), (42, 3895), (53, 3790), (55, 3742), (56, 3739), (57, 3730),

Gene: Genie2_8 Start: 4398, Stop: 3886, Start Num: 8

Candidate Starts for Genie2_8:

(Start: 8 @4398 has 94 MA's), (14, 4353), (15, 4335), (19, 4266), (35, 4113), (40, 4089), (48, 4014),

Gene: Genie2_263 Start: 123299, Stop: 122787, Start Num: 8

Candidate Starts for Genie2_263:

(Start: 8 @123299 has 94 MA's), (14, 123254), (15, 123236), (19, 123167), (35, 123014), (40, 122990), (48, 122915),

Gene: Gibbi_6 Start: 4035, Stop: 3523, Start Num: 8

Candidate Starts for Gibbi_6:

(Start: 8 @4035 has 94 MA's), (14, 3990), (15, 3972), (28, 3846), (47, 3657), (49, 3633), (55, 3561), (56, 3558),

Gene: Gibbi_277 Start: 124135, Stop: 123623, Start Num: 8

Candidate Starts for Gibbi_277:

(Start: 8 @124135 has 94 MA's), (14, 124090), (15, 124072), (28, 123946), (47, 123757), (49, 123733), (55, 123661), (56, 123658),

Gene: Gilson_216 Start: 105302, Stop: 105880, Start Num: 8

Candidate Starts for Gilson_216:

(Start: 8 @105302 has 94 MA's), (17, 105407), (18, 105410), (25, 105494), (36, 105647), (42, 105665), (45, 105692), (50, 105758), (54, 105794), (60, 105860),

Gene: HangryHippo_7 Start: 4574, Stop: 4056, Start Num: 6

Candidate Starts for HangryHippo_7:

(Start: 6 @4574 has 60 MA's), (11, 4562), (15, 4505), (27, 4379), (28, 4376), (32, 4343), (34, 4313), (38, 4259), (42, 4247), (53, 4142), (55, 4094), (56, 4091), (57, 4082),

Gene: HangryHippo_255 Start: 125661, Stop: 125143, Start Num: 6

Candidate Starts for HangryHippo_255:

(Start: 6 @125661 has 60 MA's), (11, 125649), (15, 125592), (27, 125466), (28, 125463), (32, 125430), (34, 125400), (38, 125346), (42, 125334), (53, 125229), (55, 125181), (56, 125178), (57, 125169),

Gene: IchabodCrane_259 Start: 122575, Stop: 122063, Start Num: 8

Candidate Starts for IchabodCrane_259:

(Start: 8 @122575 has 94 MA's), (14, 122530), (15, 122512), (28, 122386), (47, 122197), (49, 122173), (55, 122101), (56, 122098),

Gene: IchabodCrane_6 Start: 4032, Stop: 3520, Start Num: 8

Candidate Starts for IchabodCrane_6:

(Start: 8 @4032 has 94 MA's), (14, 3987), (15, 3969), (28, 3843), (47, 3654), (49, 3630), (55, 3558), (56, 3555),

Gene: Jada_218 Start: 105978, Stop: 106556, Start Num: 8

Candidate Starts for Jada_218:

(Start: 8 @105978 has 94 MA's), (17, 106083), (18, 106086), (25, 106170), (36, 106323), (42, 106341), (45, 106368), (50, 106434), (54, 106470), (60, 106536),

Gene: Jay2Jay_9 Start: 4454, Stop: 3876, Start Num: 3

Candidate Starts for Jay2Jay_9:

(Start: 3 @4454 has 4 MA's), (Start: 7 @4397 has 22 MA's), (11, 4385), (15, 4328), (17, 4280), (28, 4196), (31, 4169), (42, 4067), (53, 3962), (55, 3914), (56, 3911), (57, 3902),

Gene: Jay2Jay_264 Start: 126547, Stop: 125969, Start Num: 3

Candidate Starts for Jay2Jay_264:

(Start: 3 @126547 has 4 MA's), (Start: 7 @126490 has 22 MA's), (11, 126478), (15, 126421), (17, 126373), (28, 126289), (31, 126262), (42, 126160), (53, 126055), (55, 126007), (56, 126004), (57, 125995),

Gene: JimJam_275 Start: 125959, Stop: 125447, Start Num: 8

Candidate Starts for JimJam_275:

(Start: 8 @125959 has 94 MA's), (14, 125914), (15, 125896), (28, 125770), (47, 125581), (49, 125557), (55, 125485), (56, 125482),

Gene: JimJam_7 Start: 4423, Stop: 3911, Start Num: 8

Candidate Starts for JimJam_7:

(Start: 8 @4423 has 94 MA's), (14, 4378), (15, 4360), (28, 4234), (47, 4045), (49, 4021), (55, 3949), (56, 3946),

Gene: Jollison_264 Start: 123099, Stop: 122587, Start Num: 8

Candidate Starts for Jollison_264:

(Start: 8 @123099 has 94 MA's), (14, 123054), (15, 123036), (28, 122910), (47, 122721), (49, 122697), (55, 122625), (56, 122622),

Gene: Jollison_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for Jollison_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: Karimac_7 Start: 4426, Stop: 3914, Start Num: 8

Candidate Starts for Karimac_7:

(Start: 8 @4426 has 94 MA's), (14, 4381), (15, 4363), (28, 4237), (47, 4048), (49, 4024), (55, 3952), (56, 3949),

Gene: Karimac_265 Start: 123745, Stop: 123233, Start Num: 8

Candidate Starts for Karimac_265:

(Start: 8 @123745 has 94 MA's), (14, 123700), (15, 123682), (28, 123556), (47, 123367), (49, 123343), (55, 123271), (56, 123268),

Gene: Karp_212 Start: 107387, Stop: 107959, Start Num: 8

Candidate Starts for Karp_212:

(Start: 8 @107387 has 94 MA's), (17, 107492), (24, 107561), (37, 107732), (39, 107735), (45, 107771), (46, 107777), (50, 107837), (60, 107939),

Gene: Kenrey_222 Start: 106523, Stop: 107101, Start Num: 9

Candidate Starts for Kenrey_222:

(Start: 9 @106523 has 6 MA's), (17, 106631), (25, 106715), (36, 106868), (44, 106904), (45, 106913), (50, 106979), (54, 107015), (60, 107081),

Gene: KentuckyRacer_274 Start: 125487, Stop: 124975, Start Num: 8

Candidate Starts for KentuckyRacer_274:

(Start: 8 @125487 has 94 MA's), (14, 125442), (15, 125424), (28, 125298), (47, 125109), (49, 125085), (55, 125013), (56, 125010),

Gene: KentuckyRacer_6 Start: 4036, Stop: 3524, Start Num: 8

Candidate Starts for KentuckyRacer_6:

(Start: 8 @4036 has 94 MA's), (14, 3991), (15, 3973), (28, 3847), (47, 3658), (49, 3634), (55, 3562), (56, 3559),

Gene: Larnav_7 Start: 4574, Stop: 4056, Start Num: 6

Candidate Starts for Larnav_7:

(Start: 6 @4574 has 60 MA's), (11, 4562), (15, 4505), (27, 4379), (28, 4376), (32, 4343), (34, 4313), (38, 4259), (42, 4247), (53, 4142), (55, 4094), (56, 4091), (57, 4082),

Gene: Larnav_257 Start: 126579, Stop: 126061, Start Num: 6

Candidate Starts for Larnav_257:

(Start: 6 @126579 has 60 MA's), (11, 126567), (15, 126510), (27, 126384), (28, 126381), (32, 126348), (34, 126318), (38, 126264), (42, 126252), (53, 126147), (55, 126099), (56, 126096), (57, 126087),

Gene: Leo04_258 Start: 126691, Stop: 126173, Start Num: 6

Candidate Starts for Leo04_258:

(Start: 6 @126691 has 60 MA's), (11, 126679), (15, 126622), (27, 126496), (28, 126493), (32, 126460), (34, 126430), (38, 126376), (42, 126364), (53, 126259), (55, 126211), (56, 126208), (57, 126199),

Gene: Leo04_7 Start: 4573, Stop: 4055, Start Num: 6

Candidate Starts for Leo04_7:

(Start: 6 @4573 has 60 MA's), (11, 4561), (15, 4504), (27, 4378), (28, 4375), (32, 4342), (34, 4312), (38, 4258), (42, 4246), (53, 4141), (55, 4093), (56, 4090), (57, 4081),

Gene: Liandry_256 Start: 125743, Stop: 125225, Start Num: 6

Candidate Starts for Liandry_256:

(Start: 6 @125743 has 60 MA's), (11, 125731), (15, 125674), (31, 125518), (34, 125482), (42, 125416), (53, 125311), (55, 125263), (56, 125260), (57, 125251),

Gene: Liandry_7 Start: 4222, Stop: 3704, Start Num: 6

Candidate Starts for Liandry_7:

(Start: 6 @4222 has 60 MA's), (11, 4210), (15, 4153), (31, 3997), (34, 3961), (42, 3895), (53, 3790), (55, 3742), (56, 3739), (57, 3730),

Gene: LilMartin_259 Start: 125954, Stop: 125433, Start Num: 7

Candidate Starts for LilMartin_259:

(Start: 7 @125954 has 22 MA's), (11, 125942), (15, 125885), (17, 125837), (28, 125753), (31, 125726), (42, 125624), (55, 125471), (56, 125468), (57, 125459),

Gene: LilMartin_7 Start: 4610, Stop: 4089, Start Num: 7

Candidate Starts for LilMartin_7:

(Start: 7 @4610 has 22 MA's), (11, 4598), (15, 4541), (17, 4493), (28, 4409), (31, 4382), (42, 4280), (55, 4127), (56, 4124), (57, 4115),

Gene: LilSaint_8 Start: 4679, Stop: 4161, Start Num: 7

Candidate Starts for LilSaint_8:

(Start: 7 @4679 has 22 MA's), (10, 4670), (15, 4613), (17, 4565), (34, 4418), (35, 4385), (55, 4199), (56, 4196), (57, 4187),

Gene: LilSaint_261 Start: 126529, Stop: 126011, Start Num: 7

Candidate Starts for LilSaint_261:

(Start: 7 @126529 has 22 MA's), (10, 126520), (15, 126463), (17, 126415), (34, 126268), (35, 126235), (55, 126049), (56, 126046), (57, 126037),

Gene: Limpid_210 Start: 107683, Stop: 108267, Start Num: 8

Candidate Starts for Limpid_210:

(Start: 8 @107683 has 94 MA's), (13, 107707), (17, 107791), (24, 107866), (44, 108070), (50, 108145), (54, 108181), (59, 108244), (60, 108247),

Gene: LukeCage_269 Start: 124930, Stop: 124418, Start Num: 8

Candidate Starts for LukeCage_269:

(Start: 8 @124930 has 94 MA's), (14, 124885), (15, 124867), (16, 124861), (19, 124798), (20, 124795), (40, 124621), (42, 124615), (47, 124552), (49, 124528), (55, 124456), (56, 124453),

Gene: LukeCage_6 Start: 4026, Stop: 3514, Start Num: 8

Candidate Starts for LukeCage_6:

(Start: 8 @4026 has 94 MA's), (14, 3981), (15, 3963), (16, 3957), (19, 3894), (20, 3891), (40, 3717), (42, 3711), (47, 3648), (49, 3624), (55, 3552), (56, 3549),

Gene: Lululemon_253 Start: 124846, Stop: 124328, Start Num: 6

Candidate Starts for Lululemon_253:

(Start: 6 @124846 has 60 MA's), (11, 124834), (15, 124777), (27, 124651), (28, 124648), (32, 124615), (34, 124585), (38, 124531), (42, 124519), (53, 124414), (55, 124366), (56, 124363), (57, 124354),

Gene: Lululemon_6 Start: 3954, Stop: 3436, Start Num: 6

Candidate Starts for Lululemon_6:

(Start: 6 @3954 has 60 MA's), (11, 3942), (15, 3885), (27, 3759), (28, 3756), (32, 3723), (34, 3693), (38, 3639), (42, 3627), (53, 3522), (55, 3474), (56, 3471), (57, 3462),

Gene: Marsus_264 Start: 128320, Stop: 127799, Start Num: 7

Candidate Starts for Marsus_264:

(Start: 7 @128320 has 22 MA's), (11, 128308), (15, 128251), (17, 128203), (28, 128119), (31, 128092), (32, 128086), (34, 128056), (53, 127885), (56, 127834), (57, 127825),

Gene: Marsus_7 Start: 4616, Stop: 4095, Start Num: 7

Candidate Starts for Marsus_7:

(Start: 7 @4616 has 22 MA's), (11, 4604), (15, 4547), (17, 4499), (28, 4415), (31, 4388), (32, 4382), (34, 4352), (53, 4181), (56, 4130), (57, 4121),

Gene: Maupel_219 Start: 105302, Stop: 105880, Start Num: 8

Candidate Starts for Maupel_219:

(Start: 8 @105302 has 94 MA's), (17, 105407), (18, 105410), (25, 105494), (36, 105647), (42, 105665), (45, 105692), (50, 105758), (54, 105794), (60, 105860),

Gene: MeganTheeKilla_221 Start: 106176, Stop: 106751, Start Num: 8

Candidate Starts for MeganTheeKilla_221:

(Start: 8 @106176 has 94 MA's), (17, 106281), (25, 106365), (36, 106518), (42, 106536), (45, 106563), (50, 106629), (54, 106665), (60, 106731),

Gene: Mildred21_7 Start: 4196, Stop: 3675, Start Num: 7

Candidate Starts for Mildred21_7:

(Start: 7 @4196 has 22 MA's), (11, 4184), (15, 4127), (17, 4079), (31, 3968), (42, 3866), (55, 3713), (56, 3710), (57, 3701),

Gene: Mildred21_270 Start: 125354, Stop: 124833, Start Num: 7

Candidate Starts for Mildred21_270:

(Start: 7 @125354 has 22 MA's), (11, 125342), (15, 125285), (17, 125237), (31, 125126), (42, 125024), (55, 124871), (56, 124868), (57, 124859),

Gene: MindFlayer_6 Start: 4034, Stop: 3522, Start Num: 8

Candidate Starts for MindFlayer_6:

(Start: 8 @4034 has 94 MA's), (14, 3989), (15, 3971), (28, 3845), (47, 3656), (49, 3632), (55, 3560), (56, 3557),

Gene: MindFlayer_258 Start: 122094, Stop: 121582, Start Num: 8

Candidate Starts for MindFlayer_258:

(Start: 8 @122094 has 94 MA's), (14, 122049), (15, 122031), (28, 121905), (47, 121716), (49, 121692), (55, 121620), (56, 121617),

Gene: Moab_219 Start: 108643, Stop: 109215, Start Num: 8

Candidate Starts for Moab_219:

(Start: 8 @108643 has 94 MA's), (17, 108748), (18, 108751), (25, 108832), (27, 108874), (28, 108877), (29, 108898), (30, 108904), (36, 108985), (43, 109015), (45, 109030), (46, 109036), (59, 109195),

Gene: Mugiwara_273 Start: 125399, Stop: 124887, Start Num: 8
Candidate Starts for Mugiwara_273:
(Start: 8 @125399 has 94 MA's), (14, 125354), (15, 125336), (20, 125264), (40, 125090), (49, 124997),
(55, 124925), (56, 124922),

Gene: Mugiwara_6 Start: 4014, Stop: 3502, Start Num: 8
Candidate Starts for Mugiwara_6:
(Start: 8 @4014 has 94 MA's), (14, 3969), (15, 3951), (20, 3879), (40, 3705), (49, 3612), (55, 3540),
(56, 3537),

Gene: MulchMansion_263 Start: 127588, Stop: 127067, Start Num: 7
Candidate Starts for MulchMansion_263:
(Start: 7 @127588 has 22 MA's), (11, 127576), (15, 127519), (17, 127471), (28, 127387), (31, 127360),
(42, 127258), (55, 127105), (56, 127102), (57, 127093),

Gene: MulchMansion_7 Start: 4610, Stop: 4089, Start Num: 7
Candidate Starts for MulchMansion_7:
(Start: 7 @4610 has 22 MA's), (11, 4598), (15, 4541), (17, 4493), (28, 4409), (31, 4382), (42, 4280),
(55, 4127), (56, 4124), (57, 4115),

Gene: Muntaha_238 Start: 114741, Stop: 115292, Start Num: 8
Candidate Starts for Muntaha_238:
(1, 114609), (5, 114702), (Start: 6 @114735 has 60 MA's), (Start: 8 @114741 has 94 MA's), (17,
114846), (45, 115104), (46, 115110), (59, 115269),

Gene: Navo_248 Start: 123645, Stop: 123127, Start Num: 6
Candidate Starts for Navo_248:
(Start: 6 @123645 has 60 MA's), (11, 123633), (15, 123576), (31, 123420), (34, 123384), (42, 123318),
(53, 123213), (55, 123165), (56, 123162), (57, 123153),

Gene: Navo_6 Start: 4020, Stop: 3502, Start Num: 6
Candidate Starts for Navo_6:
(Start: 6 @4020 has 60 MA's), (11, 4008), (15, 3951), (31, 3795), (34, 3759), (42, 3693), (53, 3588),
(55, 3540), (56, 3537), (57, 3528),

Gene: NootNoot_7 Start: 4232, Stop: 3714, Start Num: 6
Candidate Starts for NootNoot_7:
(Start: 6 @4232 has 60 MA's), (11, 4220), (15, 4163), (31, 4007), (34, 3971), (42, 3905), (53, 3800),
(55, 3752), (56, 3749), (57, 3740),

Gene: NootNoot_252 Start: 124531, Stop: 124013, Start Num: 6
Candidate Starts for NootNoot_252:
(Start: 6 @124531 has 60 MA's), (11, 124519), (15, 124462), (31, 124306), (34, 124270), (42, 124204),
(53, 124099), (55, 124051), (56, 124048), (57, 124039),

Gene: PacManQ_253 Start: 124846, Stop: 124328, Start Num: 6
Candidate Starts for PacManQ_253:
(Start: 6 @124846 has 60 MA's), (11, 124834), (15, 124777), (27, 124651), (28, 124648), (32, 124615),
(34, 124585), (38, 124531), (42, 124519), (53, 124414), (55, 124366), (56, 124363), (57, 124354),

Gene: PacManQ_6 Start: 3954, Stop: 3436, Start Num: 6
Candidate Starts for PacManQ_6:

(Start: 6 @3954 has 60 MA's), (11, 3942), (15, 3885), (27, 3759), (28, 3756), (32, 3723), (34, 3693), (38, 3639), (42, 3627), (53, 3522), (55, 3474), (56, 3471), (57, 3462),

Gene: Paradiddles_7 Start: 4222, Stop: 3704, Start Num: 6

Candidate Starts for Paradiddles_7:

(Start: 6 @4222 has 60 MA's), (11, 4210), (15, 4153), (31, 3997), (34, 3961), (42, 3895), (53, 3790), (55, 3742), (56, 3739), (57, 3730),

Gene: Paradiddles_248 Start: 126930, Stop: 126412, Start Num: 6

Candidate Starts for Paradiddles_248:

(Start: 6 @126930 has 60 MA's), (11, 126918), (15, 126861), (31, 126705), (34, 126669), (42, 126603), (53, 126498), (55, 126450), (56, 126447), (57, 126438),

Gene: Patelgo_220 Start: 109073, Stop: 109645, Start Num: 8

Candidate Starts for Patelgo_220:

(Start: 8 @109073 has 94 MA's), (17, 109178), (18, 109181), (25, 109262), (27, 109304), (28, 109307), (29, 109328), (30, 109334), (36, 109415), (43, 109445), (45, 109460), (46, 109466), (59, 109625),

Gene: Peebs_254 Start: 126548, Stop: 126030, Start Num: 6

Candidate Starts for Peebs_254:

(Start: 6 @126548 has 60 MA's), (11, 126536), (15, 126479), (27, 126353), (28, 126350), (32, 126317), (34, 126287), (38, 126233), (42, 126221), (53, 126116), (55, 126068), (56, 126065), (57, 126056),

Gene: Peebs_7 Start: 4573, Stop: 4055, Start Num: 6

Candidate Starts for Peebs_7:

(Start: 6 @4573 has 60 MA's), (11, 4561), (15, 4504), (27, 4378), (28, 4375), (32, 4342), (34, 4312), (38, 4258), (42, 4246), (53, 4141), (55, 4093), (56, 4090), (57, 4081),

Gene: Pepperwood_257 Start: 126513, Stop: 125995, Start Num: 6

Candidate Starts for Pepperwood_257:

(Start: 6 @126513 has 60 MA's), (11, 126501), (15, 126444), (27, 126318), (28, 126315), (32, 126282), (34, 126252), (38, 126198), (42, 126186), (53, 126081), (55, 126033), (56, 126030), (57, 126021),

Gene: Pepperwood_8 Start: 4728, Stop: 4210, Start Num: 6

Candidate Starts for Pepperwood_8:

(Start: 6 @4728 has 60 MA's), (11, 4716), (15, 4659), (27, 4533), (28, 4530), (32, 4497), (34, 4467), (38, 4413), (42, 4401), (53, 4296), (55, 4248), (56, 4245), (57, 4236),

Gene: Persimmon_257 Start: 124831, Stop: 124313, Start Num: 6

Candidate Starts for Persimmon_257:

(Start: 6 @124831 has 60 MA's), (11, 124819), (15, 124762), (31, 124606), (34, 124570), (42, 124504), (53, 124399), (55, 124351), (56, 124348), (57, 124339),

Gene: Persimmon_6 Start: 4020, Stop: 3502, Start Num: 6

Candidate Starts for Persimmon_6:

(Start: 6 @4020 has 60 MA's), (11, 4008), (15, 3951), (31, 3795), (34, 3759), (42, 3693), (53, 3588), (55, 3540), (56, 3537), (57, 3528),

Gene: Phredrick_221 Start: 105576, Stop: 106154, Start Num: 9

Candidate Starts for Phredrick_221:

(Start: 9 @105576 has 6 MA's), (17, 105684), (25, 105768), (36, 105921), (44, 105957), (45, 105966), (50, 106032), (54, 106068), (60, 106134),

Gene: PinkiePie_7 Start: 4222, Stop: 3704, Start Num: 6

Candidate Starts for PinkiePie_7:

(Start: 6 @4222 has 60 MA's), (11, 4210), (15, 4153), (31, 3997), (34, 3961), (42, 3895), (53, 3790), (55, 3742), (56, 3739), (57, 3730),

Gene: PinkiePie_257 Start: 125743, Stop: 125225, Start Num: 6

Candidate Starts for PinkiePie_257:

(Start: 6 @125743 has 60 MA's), (11, 125731), (15, 125674), (31, 125518), (34, 125482), (42, 125416), (53, 125311), (55, 125263), (56, 125260), (57, 125251),

Gene: PumpkinSpice_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for PumpkinSpice_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: PumpkinSpice_271 Start: 124316, Stop: 123804, Start Num: 8

Candidate Starts for PumpkinSpice_271:

(Start: 8 @124316 has 94 MA's), (14, 124271), (15, 124253), (28, 124127), (47, 123938), (49, 123914), (55, 123842), (56, 123839),

Gene: Quaran19_268 Start: 123606, Stop: 123094, Start Num: 8

Candidate Starts for Quaran19_268:

(Start: 8 @123606 has 94 MA's), (14, 123561), (15, 123543), (28, 123417), (47, 123228), (49, 123204), (55, 123132), (56, 123129),

Gene: Quaran19_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for Quaran19_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: Rikishi_268 Start: 124107, Stop: 123595, Start Num: 8

Candidate Starts for Rikishi_268:

(Start: 8 @124107 has 94 MA's), (14, 124062), (15, 124044), (28, 123918), (47, 123729), (49, 123705), (55, 123633), (56, 123630),

Gene: Rikishi_6 Start: 4034, Stop: 3522, Start Num: 8

Candidate Starts for Rikishi_6:

(Start: 8 @4034 has 94 MA's), (14, 3989), (15, 3971), (28, 3845), (47, 3656), (49, 3632), (55, 3560), (56, 3557),

Gene: Riptide_262 Start: 126122, Stop: 125604, Start Num: 7

Candidate Starts for Riptide_262:

(Start: 7 @126122 has 22 MA's), (10, 126113), (15, 126056), (17, 126008), (34, 125861), (42, 125795), (55, 125642), (56, 125639), (57, 125630), (58, 125624),

Gene: Riptide_7 Start: 4670, Stop: 4152, Start Num: 7

Candidate Starts for Riptide_7:

(Start: 7 @4670 has 22 MA's), (10, 4661), (15, 4604), (17, 4556), (34, 4409), (42, 4343), (55, 4190), (56, 4187), (57, 4178), (58, 4172),

Gene: SaltySpittoon_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for SaltySpittoon_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: SaltySpittoon_267 Start: 122688, Stop: 122176, Start Num: 8

Candidate Starts for SaltySpittoon_267:

(Start: 8 @122688 has 94 MA's), (14, 122643), (15, 122625), (28, 122499), (47, 122310), (49, 122286), (55, 122214), (56, 122211),

Gene: Samisti12_258 Start: 127617, Stop: 127099, Start Num: 6

Candidate Starts for Samisti12_258:

(Start: 6 @127617 has 60 MA's), (11, 127605), (15, 127548), (27, 127422), (28, 127419), (32, 127386), (34, 127356), (38, 127302), (42, 127290), (53, 127185), (55, 127137), (56, 127134), (57, 127125),

Gene: Samisti12_7 Start: 4573, Stop: 4055, Start Num: 6

Candidate Starts for Samisti12_7:

(Start: 6 @4573 has 60 MA's), (11, 4561), (15, 4504), (27, 4378), (28, 4375), (32, 4342), (34, 4312), (38, 4258), (42, 4246), (53, 4141), (55, 4093), (56, 4090), (57, 4081),

Gene: Scheme_8 Start: 4728, Stop: 4210, Start Num: 6

Candidate Starts for Scheme_8:

(Start: 6 @4728 has 60 MA's), (11, 4716), (15, 4659), (27, 4533), (28, 4530), (32, 4497), (34, 4467), (38, 4413), (42, 4401), (53, 4296), (55, 4248), (56, 4245), (57, 4236),

Gene: Scheme_261 Start: 127923, Stop: 127405, Start Num: 6

Candidate Starts for Scheme_261:

(Start: 6 @127923 has 60 MA's), (11, 127911), (15, 127854), (27, 127728), (28, 127725), (32, 127692), (34, 127662), (38, 127608), (42, 127596), (53, 127491), (55, 127443), (56, 127440), (57, 127431),

Gene: SeresaTree_217 Start: 107720, Stop: 108301, Start Num: 8

Candidate Starts for SeresaTree_217:

(Start: 8 @107720 has 94 MA's), (36, 108068), (50, 108179), (51, 108185), (59, 108278), (60, 108281),

Gene: Sham_208 Start: 108598, Stop: 109182, Start Num: 8

Candidate Starts for Sham_208:

(Start: 8 @108598 has 94 MA's), (17, 108706), (22, 108769), (26, 108820), (50, 109060), (52, 109069), (60, 109162),

Gene: Shuckle_7 Start: 4604, Stop: 4086, Start Num: 6

Candidate Starts for Shuckle_7:

(Start: 6 @4604 has 60 MA's), (11, 4592), (15, 4535), (32, 4373), (34, 4343), (42, 4277), (53, 4172), (55, 4124), (56, 4121), (57, 4112),

Gene: Shuckle_255 Start: 127237, Stop: 126719, Start Num: 6

Candidate Starts for Shuckle_255:

(Start: 6 @127237 has 60 MA's), (11, 127225), (15, 127168), (32, 127006), (34, 126976), (42, 126910), (53, 126805), (55, 126757), (56, 126754), (57, 126745),

Gene: Sollertia_8 Start: 4398, Stop: 3886, Start Num: 8

Candidate Starts for Sollertia_8:

(Start: 8 @4398 has 94 MA's), (14, 4353), (15, 4335), (19, 4266), (35, 4113), (40, 4089), (48, 4014),

Gene: Sollertia_264 Start: 123288, Stop: 122776, Start Num: 8

Candidate Starts for Sollertia_264:

(Start: 8 @123288 has 94 MA's), (14, 123243), (15, 123225), (19, 123156), (35, 123003), (40, 122979), (48, 122904),

Gene: SparkleGoddess_216 Start: 107448, Stop: 108020, Start Num: 8

Candidate Starts for SparkleGoddess_216:

(Start: 8 @107448 has 94 MA's), (17, 107553), (37, 107793), (39, 107796), (45, 107832), (46, 107838), (60, 108000),

Gene: Spelly_273 Start: 123228, Stop: 122716, Start Num: 8

Candidate Starts for Spelly_273:

(Start: 8 @123228 has 94 MA's), (14, 123183), (15, 123165), (28, 123039), (47, 122850), (49, 122826), (55, 122754), (56, 122751),

Gene: Spelly_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for Spelly_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: Spilled_6 Start: 4034, Stop: 3522, Start Num: 8

Candidate Starts for Spilled_6:

(Start: 8 @4034 has 94 MA's), (14, 3989), (15, 3971), (28, 3845), (47, 3656), (49, 3632), (55, 3560), (56, 3557),

Gene: Spilled_274 Start: 124503, Stop: 123991, Start Num: 8

Candidate Starts for Spilled_274:

(Start: 8 @124503 has 94 MA's), (14, 124458), (15, 124440), (28, 124314), (47, 124125), (49, 124101), (55, 124029), (56, 124026),

Gene: Squillium_7 Start: 4222, Stop: 3704, Start Num: 6

Candidate Starts for Squillium_7:

(Start: 6 @4222 has 60 MA's), (11, 4210), (15, 4153), (31, 3997), (34, 3961), (42, 3895), (53, 3790), (55, 3742), (56, 3739), (57, 3730),

Gene: Squillium_259 Start: 125746, Stop: 125228, Start Num: 6

Candidate Starts for Squillium_259:

(Start: 6 @125746 has 60 MA's), (11, 125734), (15, 125677), (31, 125521), (34, 125485), (42, 125419), (53, 125314), (55, 125266), (56, 125263), (57, 125254),

Gene: Stanimal_8 Start: 4398, Stop: 3886, Start Num: 8

Candidate Starts for Stanimal_8:

(Start: 8 @4398 has 94 MA's), (14, 4353), (15, 4335), (19, 4266), (35, 4113), (40, 4089), (48, 4014),

Gene: Stanimal_263 Start: 123672, Stop: 123160, Start Num: 8

Candidate Starts for Stanimal_263:

(Start: 8 @123672 has 94 MA's), (14, 123627), (15, 123609), (19, 123540), (35, 123387), (40, 123363), (48, 123288),

Gene: StarPlatinum_6 Start: 4168, Stop: 3656, Start Num: 8

Candidate Starts for StarPlatinum_6:

(Start: 8 @4168 has 94 MA's), (15, 4105), (19, 4036), (40, 3859), (49, 3766), (55, 3694), (56, 3691),

Gene: StarPlatinum_276 Start: 125855, Stop: 125343, Start Num: 8

Candidate Starts for StarPlatinum_276:

(Start: 8 @125855 has 94 MA's), (15, 125792), (19, 125723), (40, 125546), (49, 125453), (55, 125381), (56, 125378),

Gene: Starbow_7 Start: 4424, Stop: 3912, Start Num: 8

Candidate Starts for Starbow_7:

(Start: 8 @4424 has 94 MA's), (14, 4379), (15, 4361), (28, 4235), (47, 4046), (49, 4022), (55, 3950), (56, 3947),

Gene: Starbow_264 Start: 123272, Stop: 122760, Start Num: 8

Candidate Starts for Starbow_264:

(Start: 8 @123272 has 94 MA's), (14, 123227), (15, 123209), (28, 123083), (47, 122894), (49, 122870), (55, 122798), (56, 122795),

Gene: Stigma_215 Start: 107654, Stop: 108226, Start Num: 8

Candidate Starts for Stigma_215:

(Start: 8 @107654 has 94 MA's), (17, 107759), (37, 107999), (39, 108002), (45, 108038), (46, 108044), (60, 108206),

Gene: Sushi23_258 Start: 127417, Stop: 126899, Start Num: 6

Candidate Starts for Sushi23_258:

(Start: 6 @127417 has 60 MA's), (11, 127405), (15, 127348), (27, 127222), (28, 127219), (32, 127186), (34, 127156), (38, 127102), (42, 127090), (53, 126985), (55, 126937), (56, 126934), (57, 126925),

Gene: Sushi23_8 Start: 4574, Stop: 4056, Start Num: 6

Candidate Starts for Sushi23_8:

(Start: 6 @4574 has 60 MA's), (11, 4562), (15, 4505), (27, 4379), (28, 4376), (32, 4343), (34, 4313), (38, 4259), (42, 4247), (53, 4142), (55, 4094), (56, 4091), (57, 4082),

Gene: Targaryen_7 Start: 4693, Stop: 4172, Start Num: 7

Candidate Starts for Targaryen_7:

(Start: 3 @4750 has 4 MA's), (Start: 7 @4693 has 22 MA's), (11, 4681), (15, 4624), (17, 4576), (28, 4492), (31, 4465), (42, 4363), (53, 4258), (55, 4210), (56, 4207), (57, 4198),

Gene: Targaryen_258 Start: 128369, Stop: 127848, Start Num: 7

Candidate Starts for Targaryen_258:

(Start: 3 @128426 has 4 MA's), (Start: 7 @128369 has 22 MA's), (11, 128357), (15, 128300), (17, 128252), (28, 128168), (31, 128141), (42, 128039), (53, 127934), (55, 127886), (56, 127883), (57, 127874),

Gene: Teutsch_7 Start: 4575, Stop: 4057, Start Num: 6

Candidate Starts for Teutsch_7:

(Start: 6 @4575 has 60 MA's), (11, 4563), (15, 4506), (27, 4380), (28, 4377), (32, 4344), (34, 4314), (38, 4260), (42, 4248), (53, 4143), (55, 4095), (56, 4092), (57, 4083),

Gene: Teutsch_254 Start: 126784, Stop: 126266, Start Num: 6

Candidate Starts for Teutsch_254:

(Start: 6 @126784 has 60 MA's), (11, 126772), (15, 126715), (27, 126589), (28, 126586), (32, 126553), (34, 126523), (38, 126469), (42, 126457), (53, 126352), (55, 126304), (56, 126301), (57, 126292),

Gene: TomSawyer_272 Start: 125797, Stop: 125285, Start Num: 8

Candidate Starts for TomSawyer_272:

(Start: 8 @125797 has 94 MA's), (14, 125752), (15, 125734), (28, 125608), (47, 125419), (49, 125395), (55, 125323), (56, 125320),

Gene: TomSawyer_7 Start: 4018, Stop: 3506, Start Num: 8

Candidate Starts for TomSawyer_7:

(Start: 8 @4018 has 94 MA's), (14, 3973), (15, 3955), (28, 3829), (47, 3640), (49, 3616), (55, 3544), (56, 3541),

Gene: Tomas_7 Start: 4430, Stop: 3921, Start Num: 8

Candidate Starts for Tomas_7:

(2, 4520), (Start: 8 @4430 has 94 MA's), (14, 4385), (15, 4367), (17, 4319), (18, 4316), (32, 4211), (47, 4055), (48, 4049), (56, 3956),

Gene: Tomas_263 Start: 126137, Stop: 125628, Start Num: 8

Candidate Starts for Tomas_263:

(2, 126227), (Start: 8 @126137 has 94 MA's), (14, 126092), (15, 126074), (17, 126026), (18, 126023), (32, 125918), (47, 125762), (48, 125756), (56, 125663),

Gene: Tribute_253 Start: 127118, Stop: 126600, Start Num: 6

Candidate Starts for Tribute_253:

(Start: 6 @127118 has 60 MA's), (11, 127106), (15, 127049), (27, 126923), (28, 126920), (32, 126887), (34, 126857), (38, 126803), (42, 126791), (53, 126686), (55, 126638), (56, 126635), (57, 126626),

Gene: Tribute_7 Start: 4574, Stop: 4056, Start Num: 6

Candidate Starts for Tribute_7:

(Start: 6 @4574 has 60 MA's), (11, 4562), (15, 4505), (27, 4379), (28, 4376), (32, 4343), (34, 4313), (38, 4259), (42, 4247), (53, 4142), (55, 4094), (56, 4091), (57, 4082),

Gene: TunaTartare_216 Start: 110896, Stop: 111477, Start Num: 8

Candidate Starts for TunaTartare_216:

(Start: 8 @110896 has 94 MA's), (18, 111007), (22, 111067), (26, 111118), (50, 111355), (52, 111364), (60, 111457),

Gene: Wakanda_234 Start: 113728, Stop: 114279, Start Num: 8

Candidate Starts for Wakanda_234:

(5, 113689), (Start: 6 @113722 has 60 MA's), (Start: 8 @113728 has 94 MA's), (21, 113863), (45, 114091), (46, 114097), (59, 114256),

Gene: Warpy_261 Start: 126013, Stop: 125435, Start Num: 3

Candidate Starts for Warpy_261:

(Start: 3 @126013 has 4 MA's), (Start: 7 @125956 has 22 MA's), (11, 125944), (15, 125887), (17, 125839), (31, 125728), (42, 125626), (53, 125521), (55, 125473), (56, 125470), (57, 125461),

Gene: Warpy_9 Start: 4475, Stop: 3897, Start Num: 3

Candidate Starts for Warpy_9:

(Start: 3 @4475 has 4 MA's), (Start: 7 @4418 has 22 MA's), (11, 4406), (15, 4349), (17, 4301), (31, 4190), (42, 4088), (53, 3983), (55, 3935), (56, 3932), (57, 3923),

Gene: Watermoore_7 Start: 4575, Stop: 4057, Start Num: 6

Candidate Starts for Watermoore_7:

(Start: 6 @4575 has 60 MA's), (11, 4563), (15, 4506), (27, 4380), (28, 4377), (32, 4344), (34, 4314), (38, 4260), (42, 4248), (53, 4143), (55, 4095), (56, 4092), (57, 4083),

Gene: Watermoore_254 Start: 127171, Stop: 126653, Start Num: 6

Candidate Starts for Watermoore_254:

(Start: 6 @127171 has 60 MA's), (11, 127159), (15, 127102), (27, 126976), (28, 126973), (32, 126940), (34, 126910), (38, 126856), (42, 126844), (53, 126739), (55, 126691), (56, 126688), (57, 126679),

Gene: Westy_220 Start: 108440, Stop: 109012, Start Num: 8

Candidate Starts for Westy_220:

(Start: 8 @108440 has 94 MA's), (17, 108545), (37, 108785), (39, 108788), (45, 108824), (46, 108830), (60, 108992),

Gene: WhereRU_6 Start: 4020, Stop: 3502, Start Num: 6

Candidate Starts for WhereRU_6:

(Start: 6 @4020 has 60 MA's), (11, 4008), (15, 3951), (31, 3795), (34, 3759), (42, 3693), (53, 3588), (55, 3540), (56, 3537), (57, 3528),

Gene: WhereRU_255 Start: 125165, Stop: 124647, Start Num: 6

Candidate Starts for WhereRU_255:

(Start: 6 @125165 has 60 MA's), (11, 125153), (15, 125096), (31, 124940), (34, 124904), (42, 124838), (53, 124733), (55, 124685), (56, 124682), (57, 124673),

Gene: Wipeout_259 Start: 124770, Stop: 124258, Start Num: 8

Candidate Starts for Wipeout_259:

(Start: 8 @124770 has 94 MA's), (14, 124725), (15, 124707), (28, 124581), (47, 124392), (49, 124368), (55, 124296), (56, 124293),

Gene: Wipeout_6 Start: 4039, Stop: 3527, Start Num: 8

Candidate Starts for Wipeout_6:

(Start: 8 @4039 has 94 MA's), (14, 3994), (15, 3976), (28, 3850), (47, 3661), (49, 3637), (55, 3565), (56, 3562),

Gene: Wofford_265 Start: 126101, Stop: 125589, Start Num: 8

Candidate Starts for Wofford_265:

(Start: 8 @126101 has 94 MA's), (14, 126056), (15, 126038), (19, 125969), (35, 125816), (40, 125792), (47, 125723), (49, 125699), (55, 125627), (56, 125624),

Gene: Wofford_7 Start: 4308, Stop: 3796, Start Num: 8

Candidate Starts for Wofford_7:

(Start: 8 @4308 has 94 MA's), (14, 4263), (15, 4245), (19, 4176), (35, 4023), (40, 3999), (47, 3930), (49, 3906), (55, 3834), (56, 3831),

Gene: Yaboi_8 Start: 4398, Stop: 3886, Start Num: 8

Candidate Starts for Yaboi_8:

(Start: 8 @4398 has 94 MA's), (14, 4353), (15, 4335), (19, 4266), (35, 4113), (40, 4089), (48, 4014),

Gene: Yaboi_269 Start: 123216, Stop: 122704, Start Num: 8

Candidate Starts for Yaboi_269:

(Start: 8 @123216 has 94 MA's), (14, 123171), (15, 123153), (19, 123084), (35, 122931), (40, 122907), (48, 122832),