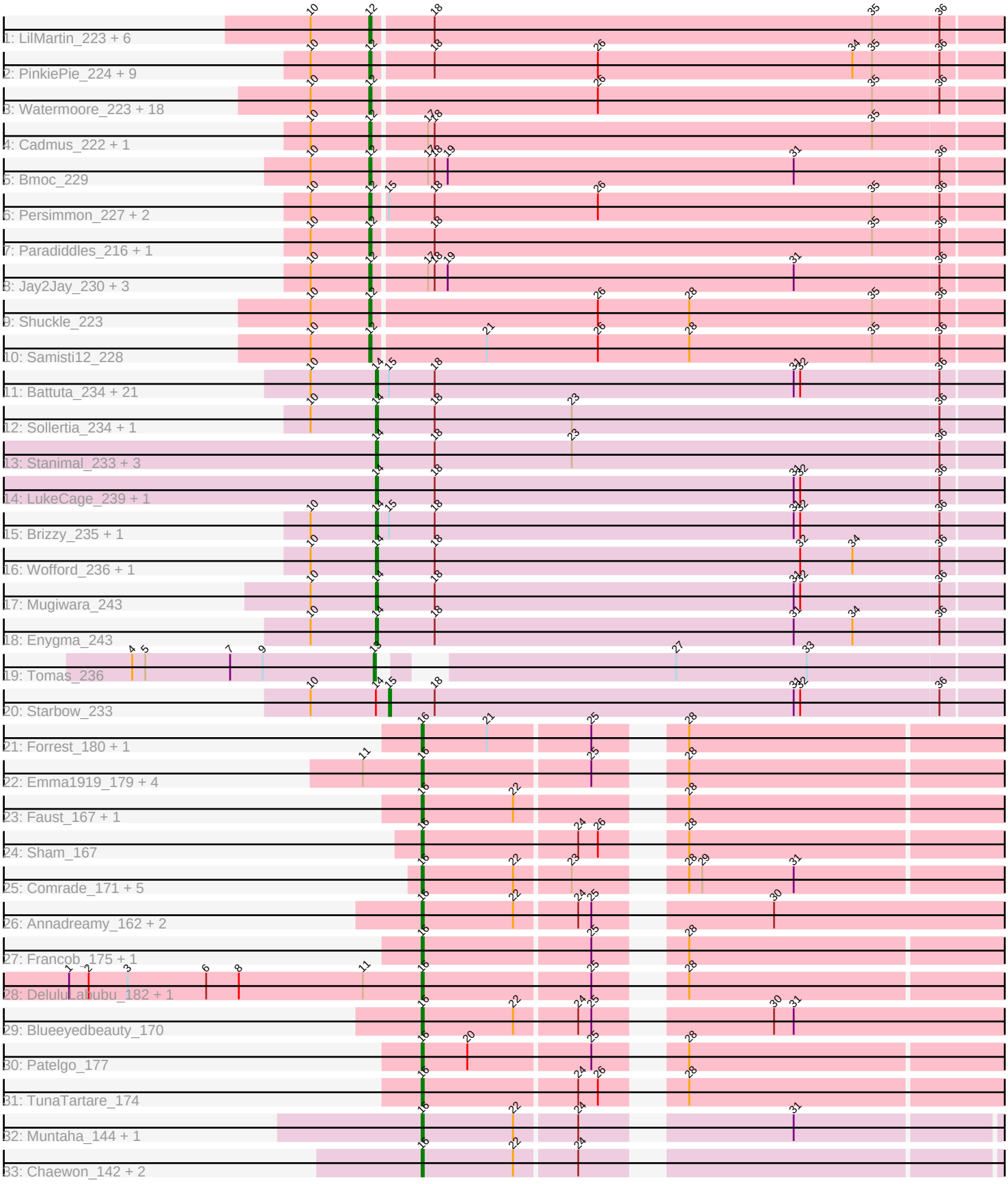
Pham 343783


1: LilMartin_223 + 6
2: PinkiePie_224 + 9
3: Watermoore_223 + 18
4: Cadmus_222 + 1
5: Bmoc_229
6: Persimmon_227 + 2
7: Paradiddles_216 + 1
8: Jay2Jay_230 + 3
9: Shuckle_223
10: Samisti12_228
11: Battuta_234 + 21
12: Sollertia_234 + 1
13: Stanimal_233 + 3
14: LukeCage_239 + 1
15: Brizzy_235 + 1
16: Wofford_236 + 1
17: Mugiwara_243
18: Enygma_243
19: Tomas_236
20: Starbow_233
21: Forrest_180 + 1
22: Emma1919_179 + 4
23: Faust_167 + 1
24: Sham_167
25: Comrade_171 + 5
26: Annadreamy_162 + 2
27: Francob_175 + 1
28: DeluluLabubu_182 + 1
29: Blueeyedbeauty_170
30: Patelgo_177
31: TunaTartare_174
32: Muntaha_144 + 1
33: Chaewon_142 + 2

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 343783 Report

This analysis was run 11/14/26 on database version 672.

Pham number 343783 has 119 members, 6 are drafts.

Phages represented in each track:
• Track 1 : LilMartin_223, Marsus_226, LilSaint_225, Anedea_237, MulchMansion_227, Riptide_225, Angela_227
• Track 2 : PinkiePie_224, FreddyDRoo_225, Braelyn_220, NootNoot_221, Liandry_224, Eliot67_226, PynkPanther_224, WhereRU_223, Squillium_227, Davielle_223
• Track 3 : Watermoore_223, PacManQ_221, WashU_218, HangryHippo_222, Lululemon_221, Tribute_220, Pepperwood_224, BlueOtter_222, Peebs_221, Coogler_221, Leo04_224, EGole_228, Cross_223, Sushi23_225, Scheme_227, Larnav_224, Teutsch_223, Cursive_227, ArianaSWT_227
• Track 4 : Cadmus_222, Daubenski_218
• Track 5 : Bmoc_229
• Track 6 : Persimmon_227, Navo_218, Bartholomune_224
• Track 7 : Paradiddles_216, Mildred21_234
• Track 8 : Jay2Jay_230, Targaryen_224, Evy_214, Warpy_227
• Track 9 : Shuckle_223
• Track 10 : Samisti12_228
• Track 11 : Battuta_234, Jollison_233, PumpkinSpice_239, MindFlayer_229, Tuesday_243, Rikishi_237, Amabiko_240, Spilled_243, SaltySpitoon_236, Spelly_241, Gibbi_244, JimJam_243, Bordeaux_234, Birchlyn_235, AcciDwight_244, Daisy123_238, Quaran19_236, IchabodCrane_230, CeilingFan_240, TomSawyer_240, Wipeout_226, KentuckyRacer_242
• Track 12 : Sollertia_234, Genie2_233
• Track 13 : Stanimal_233, BoomerJR_233, AngryGiraffe_233, Yaboi_238
• Track 14 : LukeCage_239, StarPlatinum_243
• Track 15 : Brizzy_235, Karimac_236
• Track 16 : Wofford_236, Elmer_244
• Track 17 : Mugiwara_243
• Track 18 : Enygma_243
• Track 19 : Tomas_236
• Track 20 : Starbow_233
• Track 21 : Forrest_180, Jada_177
• Track 22 : Emma1919_179, Gilson_178, Maupel_179, Kenrey_181, Phredrick_179
• Track 23 : Faust_167, SeresaTree_169
• Track 24 : Sham_167
• Track 25 : Comrade_171, Karp_168, Westy_176, Stigma_172, Belfort_174, SparkleGoddess_174
• Track 26 : Annadreamy_162, Limpid_169, Beuffert_168

• Track 27 : Francob_175, Moab_176
• Track 28 : DeluluLabubu_182, MeganTheeKilla_178
• Track 29 : Blueeyedbeauty_170
• Track 30 : Patelgo_177
• Track 31 : TunaTartare_174
• Track 32 : Muntaha_144, Wakanda_143
• Track 33 : Chaewon_142, BillNye_136, Circinus_137

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

The start number called the most often in the published annotations is 12, it was called in 49 of the 113 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anedea_237, Angela_227, ArianaSWT_227, Bartholomune_224, BlueOtter_222, Bmoc_229, Braelyn_220, Cadmus_222, Coogler_221, Cross_223, Cursive_227, Daubenski_218, Davielle_223, EGole_228, Eliot67_226, Evy_214, FreddyDRoo_225, HangryHippo_222, Jay2Jay_230, Larnav_224, Leo04_224, Liandry_224, LilMartin_223, LilSaint_225, Lululemon_221, Marsus_226, Mildred21_234, MulchMansion_227, Navo_218, NootNoot_221, PacManQ_221, Paradiddles_216, Peebs_221, Pepperwood_224, Persimmon_227, PinkiePie_224, PynkPanther_224, Riptide_225, Samisti12_228, Scheme_227, Shuckle_223, Squillium_227, Sushi23_225, Targaryen_224, Teutsch_223, Tribute_220, Warpy_227, WashU_218, Watermoore_223, WhereRU_223,

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

Genes that do not have the "Most Annotated" start:
• AcciDwight_244, Amabiko_240, AngryGiraffe_233, Annadreamy_162, Battuta_234, Belfort_174, Beuffert_168, BillNye_136, Birchlyn_235, Blueeyedbeauty_170, BoomerJR_233, Bordeaux_234, Brizzy_235, CeilingFan_240, Chaewon_142, Circinus_137, Comrade_171, Daisy123_238, DeluluLabubu_182, Elmer_244, Emma1919_179, Enygma_243, Faust_167, Forrest_180, Francob_175, Genie2_233, Gibbi_244, Gilson_178, IchabodCrane_230, Jada_177, JimJam_243, Jollison_233, Karimac_236, Karp_168, Kenrey_181, KentuckyRacer_242, Limpid_169, LukeCage_239, Maupel_179, MeganTheeKilla_178, MindFlayer_229, Moab_176, Mugiwara_243, Muntaha_144, Patelgo_177, Phredrick_179, PumpkinSpice_239, Quaran19_236, Rikishi_237, SaltySpitoon_236, SeresaTree_169, Sham_167, Sollertia_234, SparkleGoddess_174, Spelly_241, Spilled_243, Stanimal_233, StarPlatinum_243, Starbow_233, Stigma_172, TomSawyer_240, Tomas_236, Tuesday_243, TunaTartare_174, Wakanda_143, Westy_176, Wipeout_226, Wofford_236, Yaboi_238,

Summary by start number:

Start 12:
• Found in 50 of 119 (42.0%) of genes in pham
• Manual Annotations of this start: 49 of 113
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Anedea_237 (BE1), Angela_227 (BE1), ArianaSWT_227 (BE1), Bartholomune_224 (BE1), BlueOtter_222 (BE1), Bmoc_229 (BE1), Braelyn_220 (BE1), Cadmus_222 (BE1), Coogler_221 (BE1), Cross_223 (BE1), Cursive_227 (BE1), Daubenski_218 (BE1), Davielle_223 (BE1), EGole_228 (BE1), Eliot67_226 (BE1), Evy_214 (BE1), FreddyDRoo_225 (BE1), HangryHippo_222 (BE1), Jay2Jay_230 (BE1), Larnav_224 (BE1), Leo04_224 (BE1), Liandry_224 (BE1), LilMartin_223 (BE1), LilSaint_225 (BE1), Lululemon_221 (BE1), Marsus_226 (BE1), Mildred21_234 (BE1), MulchMansion_227 (BE1), Navo_218 (BE1), NootNoot_221 (BE1), PacManQ_221 (BE1), Paradiddles_216 (BE1), Peebs_221 (BE1), Pepperwood_224 (BE1), Persimmon_227 (BE1), PinkiePie_224 (BE1), PynkPanther_224 (BE1), Riptide_225 (BE1), Samisti12_228 (BE1), Scheme_227 (BE1), Shuckle_223 (BE1), Squillium_227 (BE1), Sushi23_225 (BE1), Targaryen_224 (BE1), Teutsch_223 (BE1), Tribute_220 (BE1), Warpy_227 (BE1), WashU_218 (BE1), Watermoore_223 (BE1), WhereRU_223 (BE1),

Start 13:
• Found in 1 of 119 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 113
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tomas_236 (BE2),

Start 14:
• Found in 37 of 119 (31.1%) of genes in pham
• Manual Annotations of this start: 33 of 113
• Called 97.3% of time when present
• Phage (with cluster) where this start called: AcciDwight_244 (BE2), Amabiko_240 (BE2), AngryGiraffe_233 (BE2), Battuta_234 (BE2), Birchlyn_235 (BE2), BoomerJR_233 (BE2), Bordeaux_234 (BE2), Brizzy_235 (BE2), CeilingFan_240 (BE2), Daisy123_238 (BE2), Elmer_244 (BE2), Enygma_243 (BE2), Genie2_233 (BE2), Gibbi_244 (BE2), IchabodCrane_230 (BE2), JimJam_243 (BE2), Jollison_233 (BE2), Karimac_236 (BE2), KentuckyRacer_242 (BE2), LukeCage_239 (BE2), MindFlayer_229 (BE2), Mugiwara_243 (BE2), PumpkinSpice_239 (BE2), Quaran19_236 (BE2), Rikishi_237 (BE2), SaltySpitoon_236 (BE2), Sollertia_234 (BE2), Spelly_241 (BE2), Spilled_243 (BE2), Stanimal_233 (BE2), StarPlatinum_243 (BE2), TomSawyer_240 (BE2), Tuesday_243 (BE2), Wipeout_226 (BE2), Wofford_236 (BE2), Yaboi_238 (BE2),

Start 15:
• Found in 28 of 119 (23.5%) of genes in pham
• Manual Annotations of this start: 1 of 113
• Called 3.6% of time when present
• Phage (with cluster) where this start called: Starbow_233 (BE2),

Start 16:
• Found in 31 of 119 (26.1%) of genes in pham
• Manual Annotations of this start: 29 of 113
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_162 (BK1), Belfort_174 (BK1), Beuffert_168 (BK1), BillNye_136 (BK2), Blueeyedbeauty_170 (BK1), Chaewon_142 (BK2), Circinus_137 (BK2), Comrade_171 (BK1), DeluluLabubu_182 (BK1), Emma1919_179 (BK1), Faust_167 (BK1), Forrest_180 (BK1), Francob_175 (BK1), Gilson_178 (BK1), Jada_177 (BK1), Karp_168 (BK1), Kenrey_181 (BK1), Limpid_169 (BK1), Maupel_179 (BK1), MeganTheeKilla_178 (BK1), Moab_176

(BK1), Muntaha_144 (BK2), Patelgo_177 (BK1), Phredrick_179 (BK1), SeresaTree_169 (BK1), Sham_167 (BK1), SparkleGoddess_174 (BK1), Stigma_172 (BK1), TunaTartare_174 (BK1), Wakanda_143 (BK2), Westy_176 (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 12 was manually annotated 49 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 13 was manually annotated 1 time for cluster BE2.
•Start number 14 was manually annotated 33 times for cluster BE2.
•Start number 15 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 16 was manually annotated 24 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 16 was manually annotated 5 times for cluster BK2.

Gene Information:

Gene: AcciDwight_244 Start: 111573, Stop: 111881, Start Num: 14
Candidate Starts for AcciDwight_244:
(10, 111543), (Start: 14 @111573 has 33 MA's), (Start: 15 @111579 has 1 MA's), (18, 111600), (31, 111765), (32, 111768), (36, 111831),

Gene: Amabiko_240 Start: 111391, Stop: 111699, Start Num: 14
Candidate Starts for Amabiko_240:
(10, 111361), (Start: 14 @111391 has 33 MA's), (Start: 15 @111397 has 1 MA's), (18, 111418), (31, 111583), (32, 111586), (36, 111649),

Gene: Anedea_237 Start: 114868, Stop: 115173, Start Num: 12
Candidate Starts for Anedea_237:
(10, 114841), (Start: 12 @114868 has 49 MA's), (18, 114898), (35, 115099), (36, 115129),

Gene: Angela_227 Start: 113095, Stop: 113397, Start Num: 12
Candidate Starts for Angela_227:
(10, 113068), (Start: 12 @113095 has 49 MA's), (18, 113122), (35, 113323), (36, 113353),

Gene: AngryGiraffe_233 Start: 110874, Stop: 111179, Start Num: 14
Candidate Starts for AngryGiraffe_233:
(Start: 14 @110874 has 33 MA's), (18, 110901), (23, 110964), (36, 111132),

Gene: Annadreamy_162 Start: 88448, Stop: 88705, Start Num: 16
Candidate Starts for Annadreamy_162:
(Start: 16 @88448 has 29 MA's), (22, 88490), (24, 88517), (25, 88523), (30, 88589),

Gene: ArianaSWT_227 Start: 114731, Stop: 115039, Start Num: 12

Candidate Starts for ArianaSWT_227:
(10, 114704), (Start: 12 @114731 has 49 MA's), (26, 114833), (35, 114959), (36, 114989),

Gene: Bartholomune_224 Start: 112848, Stop: 113156, Start Num: 12
Candidate Starts for Bartholomune_224:
(10, 112821), (Start: 12 @112848 has 49 MA's), (Start: 15 @112854 has 1 MA's), (18, 112875), (26, 112950), (35, 113076), (36, 113106),

Gene: Battuta_234 Start: 110706, Stop: 111014, Start Num: 14
Candidate Starts for Battuta_234:
(10, 110676), (Start: 14 @110706 has 33 MA's), (Start: 15 @110712 has 1 MA's), (18, 110733), (31, 110898), (32, 110901), (36, 110964),

Gene: Belfort_174 Start: 94272, Stop: 94532, Start Num: 16
Candidate Starts for Belfort_174:
(Start: 16 @94272 has 29 MA's), (22, 94314), (23, 94338), (28, 94374), (29, 94380), (31, 94422),

Gene: Beuffert_168 Start: 92631, Stop: 92888, Start Num: 16
Candidate Starts for Beuffert_168:
(Start: 16 @92631 has 29 MA's), (22, 92673), (24, 92700), (25, 92706), (30, 92772),

Gene: BillNye_136 Start: 83857, Stop: 84108, Start Num: 16
Candidate Starts for BillNye_136:
(Start: 16 @83857 has 29 MA's), (22, 83899), (24, 83926),

Gene: Birchlyn_235 Start: 108639, Stop: 108947, Start Num: 14
Candidate Starts for Birchlyn_235:
(10, 108609), (Start: 14 @108639 has 33 MA's), (Start: 15 @108645 has 1 MA's), (18, 108666), (31, 108831), (32, 108834), (36, 108897),

Gene: BlueOtter_222 Start: 112984, Stop: 113292, Start Num: 12
Candidate Starts for BlueOtter_222:
(10, 112957), (Start: 12 @112984 has 49 MA's), (26, 113086), (35, 113212), (36, 113242),

Gene: Blueeyedbeauty_170 Start: 92215, Stop: 92472, Start Num: 16
Candidate Starts for Blueeyedbeauty_170:
(Start: 16 @92215 has 29 MA's), (22, 92257), (24, 92284), (25, 92290), (30, 92356), (31, 92365),

Gene: Bmoc_229 Start: 113536, Stop: 113847, Start Num: 12
Candidate Starts for Bmoc_229:
(10, 113509), (Start: 12 @113536 has 49 MA's), (17, 113560), (18, 113563), (19, 113569), (31, 113728), (36, 113794),

Gene: BoomerJR_233 Start: 111307, Stop: 111612, Start Num: 14
Candidate Starts for BoomerJR_233:
(Start: 14 @111307 has 33 MA's), (18, 111334), (23, 111397), (36, 111565),

Gene: Bordeaux_234 Start: 111289, Stop: 111597, Start Num: 14
Candidate Starts for Bordeaux_234:
(10, 111259), (Start: 14 @111289 has 33 MA's), (Start: 15 @111295 has 1 MA's), (18, 111316), (31, 111481), (32, 111484), (36, 111547),

Gene: Braelyn_220 Start: 112495, Stop: 112803, Start Num: 12

Candidate Starts for Braelyn_220:
(10, 112468), (Start: 12 @112495 has 49 MA's), (18, 112522), (26, 112597), (34, 112714), (35, 112723), (36, 112753),

Gene: Brizzy_235 Start: 111817, Stop: 112125, Start Num: 14
Candidate Starts for Brizzy_235:
(10, 111787), (Start: 14 @111817 has 33 MA's), (Start: 15 @111823 has 1 MA's), (18, 111844), (31, 112009), (32, 112012), (36, 112075),

Gene: Cadmus_222 Start: 114217, Stop: 114519, Start Num: 12
Candidate Starts for Cadmus_222:
(10, 114190), (Start: 12 @114217 has 49 MA's), (17, 114241), (18, 114244), (35, 114445),

Gene: CeilingFan_240 Start: 112084, Stop: 112392, Start Num: 14
Candidate Starts for CeilingFan_240:
(10, 112054), (Start: 14 @112084 has 33 MA's), (Start: 15 @112090 has 1 MA's), (18, 112111), (31, 112276), (32, 112279), (36, 112342),

Gene: Chaewon_142 Start: 83835, Stop: 84086, Start Num: 16
Candidate Starts for Chaewon_142:
(Start: 16 @83835 has 29 MA's), (22, 83877), (24, 83904),

Gene: Circinus_137 Start: 83825, Stop: 84076, Start Num: 16
Candidate Starts for Circinus_137:
(Start: 16 @83825 has 29 MA's), (22, 83867), (24, 83894),

Gene: Comrade_171 Start: 94474, Stop: 94734, Start Num: 16
Candidate Starts for Comrade_171:
(Start: 16 @94474 has 29 MA's), (22, 94516), (23, 94540), (28, 94576), (29, 94582), (31, 94624),

Gene: Coogler_221 Start: 113409, Stop: 113717, Start Num: 12
Candidate Starts for Coogler_221:
(10, 113382), (Start: 12 @113409 has 49 MA's), (26, 113511), (35, 113637), (36, 113667),

Gene: Cross_223 Start: 113629, Stop: 113937, Start Num: 12
Candidate Starts for Cross_223:
(10, 113602), (Start: 12 @113629 has 49 MA's), (26, 113731), (35, 113857), (36, 113887),

Gene: Cursive_227 Start: 113736, Stop: 114044, Start Num: 12
Candidate Starts for Cursive_227:
(10, 113709), (Start: 12 @113736 has 49 MA's), (26, 113838), (35, 113964), (36, 113994),

Gene: Daisy123_238 Start: 111946, Stop: 112254, Start Num: 14
Candidate Starts for Daisy123_238:
(10, 111916), (Start: 14 @111946 has 33 MA's), (Start: 15 @111952 has 1 MA's), (18, 111973), (31, 112138), (32, 112141), (36, 112204),

Gene: Daubenski_218 Start: 114118, Stop: 114420, Start Num: 12
Candidate Starts for Daubenski_218:
(10, 114091), (Start: 12 @114118 has 49 MA's), (17, 114142), (18, 114145), (35, 114346),

Gene: Davielle_223 Start: 112893, Stop: 113201, Start Num: 12
Candidate Starts for Davielle_223:

(10, 112866), (Start: 12 @112893 has 49 MA's), (18, 112920), (26, 112995), (34, 113112), (35, 113121), (36, 113151),

Gene: DeluluLababu_182 Start: 95497, Stop: 95757, Start Num: 16
Candidate Starts for DeluluLababu_182:
(1, 95335), (2, 95344), (3, 95362), (6, 95398), (8, 95413), (11, 95470), (Start: 16 @95497 has 29 MA's), (25, 95572), (28, 95599),

Gene: EGole_228 Start: 115820, Stop: 116128, Start Num: 12
Candidate Starts for EGole_228:
(10, 115793), (Start: 12 @115820 has 49 MA's), (26, 115922), (35, 116048), (36, 116078),

Gene: Eliot67_226 Start: 112677, Stop: 112985, Start Num: 12
Candidate Starts for Eliot67_226:
(10, 112650), (Start: 12 @112677 has 49 MA's), (18, 112704), (26, 112779), (34, 112896), (35, 112905), (36, 112935),

Gene: Elmer_244 Start: 114882, Stop: 115190, Start Num: 14
Candidate Starts for Elmer_244:
(10, 114852), (Start: 14 @114882 has 33 MA's), (18, 114909), (32, 115077), (34, 115101), (36, 115140),

Gene: Emma1919_179 Start: 93516, Stop: 93776, Start Num: 16
Candidate Starts for Emma1919_179:
(11, 93489), (Start: 16 @93516 has 29 MA's), (25, 93591), (28, 93618),

Gene: Enygma_243 Start: 114092, Stop: 114400, Start Num: 14
Candidate Starts for Enygma_243:
(10, 114062), (Start: 14 @114092 has 33 MA's), (18, 114119), (31, 114284), (34, 114311), (36, 114350),

Gene: Evy_214 Start: 113803, Stop: 114114, Start Num: 12
Candidate Starts for Evy_214:
(10, 113776), (Start: 12 @113803 has 49 MA's), (17, 113827), (18, 113830), (19, 113836), (31, 113995), (36, 114061),

Gene: Faust_167 Start: 93603, Stop: 93857, Start Num: 16
Candidate Starts for Faust_167:
(Start: 16 @93603 has 29 MA's), (22, 93645), (28, 93705),

Gene: Forrest_180 Start: 94951, Stop: 95211, Start Num: 16
Candidate Starts for Forrest_180:
(Start: 16 @94951 has 29 MA's), (21, 94981), (25, 95026), (28, 95053),

Gene: Francob_175 Start: 93507, Stop: 93767, Start Num: 16
Candidate Starts for Francob_175:
(Start: 16 @93507 has 29 MA's), (25, 93582), (28, 93609),

Gene: FreddyDRoo_225 Start: 112677, Stop: 112985, Start Num: 12
Candidate Starts for FreddyDRoo_225:
(10, 112650), (Start: 12 @112677 has 49 MA's), (18, 112704), (26, 112779), (34, 112896), (35, 112905), (36, 112935),

Gene: Genie2_233 Start: 111432, Stop: 111740, Start Num: 14
Candidate Starts for Genie2_233:
(10, 111402), (Start: 14 @111432 has 33 MA's), (18, 111459), (23, 111522), (36, 111690),

Gene: Gibbi_244 Start: 111577, Stop: 111885, Start Num: 14
Candidate Starts for Gibbi_244:
(10, 111547), (Start: 14 @111577 has 33 MA's), (Start: 15 @111583 has 1 MA's), (18, 111604), (31, 111769), (32, 111772), (36, 111835),

Gene: Gilson_178 Start: 93478, Stop: 93738, Start Num: 16
Candidate Starts for Gilson_178:
(11, 93451), (Start: 16 @93478 has 29 MA's), (25, 93553), (28, 93580),

Gene: HangryHippo_222 Start: 112984, Stop: 113292, Start Num: 12
Candidate Starts for HangryHippo_222:
(10, 112957), (Start: 12 @112984 has 49 MA's), (26, 113086), (35, 113212), (36, 113242),

Gene: IchabodCrane_230 Start: 111092, Stop: 111400, Start Num: 14
Candidate Starts for IchabodCrane_230:
(10, 111062), (Start: 14 @111092 has 33 MA's), (Start: 15 @111098 has 1 MA's), (18, 111119), (31, 111284), (32, 111287), (36, 111350),

Gene: Jada_177 Start: 93644, Stop: 93904, Start Num: 16
Candidate Starts for Jada_177:
(Start: 16 @93644 has 29 MA's), (21, 93674), (25, 93719), (28, 93746),

Gene: Jay2Jay_230 Start: 113958, Stop: 114269, Start Num: 12
Candidate Starts for Jay2Jay_230:
(10, 113931), (Start: 12 @113958 has 49 MA's), (17, 113982), (18, 113985), (19, 113991), (31, 114150), (36, 114216),

Gene: JimJam_243 Start: 113013, Stop: 113321, Start Num: 14
Candidate Starts for JimJam_243:
(10, 112983), (Start: 14 @113013 has 33 MA's), (Start: 15 @113019 has 1 MA's), (18, 113040), (31, 113205), (32, 113208), (36, 113271),

Gene: Jollison_233 Start: 111223, Stop: 111531, Start Num: 14
Candidate Starts for Jollison_233:
(10, 111193), (Start: 14 @111223 has 33 MA's), (Start: 15 @111229 has 1 MA's), (18, 111250), (31, 111415), (32, 111418), (36, 111481),

Gene: Karimac_236 Start: 111408, Stop: 111716, Start Num: 14
Candidate Starts for Karimac_236:
(10, 111378), (Start: 14 @111408 has 33 MA's), (Start: 15 @111414 has 1 MA's), (18, 111435), (31, 111600), (32, 111603), (36, 111666),

Gene: Karp_168 Start: 93698, Stop: 93958, Start Num: 16
Candidate Starts for Karp_168:
(Start: 16 @93698 has 29 MA's), (22, 93740), (23, 93764), (28, 93800), (29, 93806), (31, 93848),

Gene: Kenrey_181 Start: 94511, Stop: 94771, Start Num: 16
Candidate Starts for Kenrey_181:
(11, 94484), (Start: 16 @94511 has 29 MA's), (25, 94586), (28, 94613),

Gene: KentuckyRacer_242 Start: 112928, Stop: 113236, Start Num: 14
Candidate Starts for KentuckyRacer_242:
(10, 112898), (Start: 14 @112928 has 33 MA's), (Start: 15 @112934 has 1 MA's), (18, 112955), (31, 113120), (32, 113123), (36, 113186),

Gene: Larnav_224 Start: 113902, Stop: 114210, Start Num: 12
Candidate Starts for Larnav_224:
(10, 113875), (Start: 12 @113902 has 49 MA's), (26, 114004), (35, 114130), (36, 114160),

Gene: Leo04_224 Start: 114010, Stop: 114318, Start Num: 12
Candidate Starts for Leo04_224:
(10, 113983), (Start: 12 @114010 has 49 MA's), (26, 114112), (35, 114238), (36, 114268),

Gene: Liandry_224 Start: 113384, Stop: 113692, Start Num: 12
Candidate Starts for Liandry_224:
(10, 113357), (Start: 12 @113384 has 49 MA's), (18, 113411), (26, 113486), (34, 113603), (35, 113612), (36, 113642),

Gene: LilMartin_223 Start: 112035, Stop: 112337, Start Num: 12
Candidate Starts for LilMartin_223:
(10, 112008), (Start: 12 @112035 has 49 MA's), (18, 112062), (35, 112263), (36, 112293),

Gene: LilSaint_225 Start: 113240, Stop: 113545, Start Num: 12
Candidate Starts for LilSaint_225:
(10, 113213), (Start: 12 @113240 has 49 MA's), (18, 113270), (35, 113471), (36, 113501),

Gene: Limpid_169 Start: 93761, Stop: 94018, Start Num: 16
Candidate Starts for Limpid_169:
(Start: 16 @93761 has 29 MA's), (22, 93803), (24, 93830), (25, 93836), (30, 93902),

Gene: LukeCage_239 Start: 113253, Stop: 113561, Start Num: 14
Candidate Starts for LukeCage_239:
(Start: 14 @113253 has 33 MA's), (18, 113280), (31, 113445), (32, 113448), (36, 113511),

Gene: Lululemon_221 Start: 112789, Stop: 113097, Start Num: 12
Candidate Starts for Lululemon_221:
(10, 112762), (Start: 12 @112789 has 49 MA's), (26, 112891), (35, 113017), (36, 113047),

Gene: Marsus_226 Start: 113700, Stop: 114002, Start Num: 12
Candidate Starts for Marsus_226:
(10, 113673), (Start: 12 @113700 has 49 MA's), (18, 113727), (35, 113928), (36, 113958),

Gene: Maupel_179 Start: 93478, Stop: 93738, Start Num: 16
Candidate Starts for Maupel_179:
(11, 93451), (Start: 16 @93478 has 29 MA's), (25, 93553), (28, 93580),

Gene: MeganTheeKilla_178 Start: 93547, Stop: 93807, Start Num: 16
Candidate Starts for MeganTheeKilla_178:
(1, 93385), (2, 93394), (3, 93412), (6, 93448), (8, 93463), (11, 93520), (Start: 16 @93547 has 29 MA's), (25, 93622), (28, 93649),

Gene: Mildred21_234 Start: 112174, Stop: 112482, Start Num: 12

Candidate Starts for Mildred21_234:
(10, 112147), (Start: 12 @112174 has 49 MA's), (18, 112201), (35, 112402), (36, 112432),

Gene: MindFlayer_229 Start: 110608, Stop: 110916, Start Num: 14
Candidate Starts for MindFlayer_229:
(10, 110578), (Start: 14 @110608 has 33 MA's), (Start: 15 @110614 has 1 MA's), (18, 110635), (31, 110800), (32, 110803), (36, 110866),

Gene: Moab_176 Start: 95987, Stop: 96247, Start Num: 16
Candidate Starts for Moab_176:
(Start: 16 @95987 has 29 MA's), (25, 96062), (28, 96089),

Gene: Mugiwara_243 Start: 113791, Stop: 114099, Start Num: 14
Candidate Starts for Mugiwara_243:
(10, 113761), (Start: 14 @113791 has 33 MA's), (18, 113818), (31, 113983), (32, 113986), (36, 114049),

Gene: MulchMansion_227 Start: 113669, Stop: 113971, Start Num: 12
Candidate Starts for MulchMansion_227:
(10, 113642), (Start: 12 @113669 has 49 MA's), (18, 113696), (35, 113897), (36, 113927),

Gene: Muntaha_144 Start: 82806, Stop: 83057, Start Num: 16
Candidate Starts for Muntaha_144:
(Start: 16 @82806 has 29 MA's), (22, 82848), (24, 82875), (31, 82956),

Gene: Navo_218 Start: 111699, Stop: 112007, Start Num: 12
Candidate Starts for Navo_218:
(10, 111672), (Start: 12 @111699 has 49 MA's), (Start: 15 @111705 has 1 MA's), (18, 111726), (26, 111801), (35, 111927), (36, 111957),

Gene: NootNoot_221 Start: 112229, Stop: 112537, Start Num: 12
Candidate Starts for NootNoot_221:
(10, 112202), (Start: 12 @112229 has 49 MA's), (18, 112256), (26, 112331), (34, 112448), (35, 112457), (36, 112487),

Gene: PacManQ_221 Start: 112789, Stop: 113097, Start Num: 12
Candidate Starts for PacManQ_221:
(10, 112762), (Start: 12 @112789 has 49 MA's), (26, 112891), (35, 113017), (36, 113047),

Gene: Paradiddles_216 Start: 114604, Stop: 114912, Start Num: 12
Candidate Starts for Paradiddles_216:
(10, 114577), (Start: 12 @114604 has 49 MA's), (18, 114631), (35, 114832), (36, 114862),

Gene: Patelgo_177 Start: 96445, Stop: 96705, Start Num: 16
Candidate Starts for Patelgo_177:
(Start: 16 @96445 has 29 MA's), (20, 96466), (25, 96520), (28, 96547),

Gene: Peebs_221 Start: 113873, Stop: 114181, Start Num: 12
Candidate Starts for Peebs_221:
(10, 113846), (Start: 12 @113873 has 49 MA's), (26, 113975), (35, 114101), (36, 114131),

Gene: Pepperwood_224 Start: 113681, Stop: 113989, Start Num: 12
Candidate Starts for Pepperwood_224:

(10, 113654), (Start: 12 @113681 has 49 MA's), (26, 113783), (35, 113909), (36, 113939),

Gene: Persimmon_227 Start: 112717, Stop: 113025, Start Num: 12
Candidate Starts for Persimmon_227:
(10, 112690), (Start: 12 @112717 has 49 MA's), (Start: 15 @112723 has 1 MA's), (18, 112744), (26, 112819), (35, 112945), (36, 112975),

Gene: Phredrick_179 Start: 93142, Stop: 93402, Start Num: 16
Candidate Starts for Phredrick_179:
(11, 93115), (Start: 16 @93142 has 29 MA's), (25, 93217), (28, 93244),

Gene: PinkiePie_224 Start: 113384, Stop: 113692, Start Num: 12
Candidate Starts for PinkiePie_224:
(10, 113357), (Start: 12 @113384 has 49 MA's), (18, 113411), (26, 113486), (34, 113603), (35, 113612), (36, 113642),

Gene: PumpkinSpice_239 Start: 111829, Stop: 112137, Start Num: 14
Candidate Starts for PumpkinSpice_239:
(10, 111799), (Start: 14 @111829 has 33 MA's), (Start: 15 @111835 has 1 MA's), (18, 111856), (31, 112021), (32, 112024), (36, 112087),

Gene: PynkPanther_224 Start: 113582, Stop: 113890, Start Num: 12
Candidate Starts for PynkPanther_224:
(10, 113555), (Start: 12 @113582 has 49 MA's), (18, 113609), (26, 113684), (34, 113801), (35, 113810), (36, 113840),

Gene: Quaran19_236 Start: 111270, Stop: 111578, Start Num: 14
Candidate Starts for Quaran19_236:
(10, 111240), (Start: 14 @111270 has 33 MA's), (Start: 15 @111276 has 1 MA's), (18, 111297), (31, 111462), (32, 111465), (36, 111528),

Gene: Rikishi_237 Start: 111551, Stop: 111859, Start Num: 14
Candidate Starts for Rikishi_237:
(10, 111521), (Start: 14 @111551 has 33 MA's), (Start: 15 @111557 has 1 MA's), (18, 111578), (31, 111743), (32, 111746), (36, 111809),

Gene: Riptide_225 Start: 112398, Stop: 112703, Start Num: 12
Candidate Starts for Riptide_225:
(10, 112371), (Start: 12 @112398 has 49 MA's), (18, 112428), (35, 112629), (36, 112659),

Gene: SaltySpitoon_236 Start: 110812, Stop: 111120, Start Num: 14
Candidate Starts for SaltySpitoon_236:
(10, 110782), (Start: 14 @110812 has 33 MA's), (Start: 15 @110818 has 1 MA's), (18, 110839), (31, 111004), (32, 111007), (36, 111070),

Gene: Samisti12_228 Start: 115275, Stop: 115583, Start Num: 12
Candidate Starts for Samisti12_228:
(10, 115248), (Start: 12 @115275 has 49 MA's), (21, 115326), (26, 115377), (28, 115419), (35, 115503), (36, 115533),

Gene: Scheme_227 Start: 114920, Stop: 115228, Start Num: 12
Candidate Starts for Scheme_227:
(10, 114893), (Start: 12 @114920 has 49 MA's), (26, 115022), (35, 115148), (36, 115178),

Gene: SeresaTree_169 Start: 92985, Stop: 93239, Start Num: 16
Candidate Starts for SeresaTree_169:
(Start: 16 @92985 has 29 MA's), (22, 93027), (28, 93087),

Gene: Sham_167 Start: 94602, Stop: 94856, Start Num: 16
Candidate Starts for Sham_167:
(Start: 16 @94602 has 29 MA's), (24, 94671), (26, 94680), (28, 94704),

Gene: Shuckle_223 Start: 114233, Stop: 114541, Start Num: 12
Candidate Starts for Shuckle_223:
(10, 114206), (Start: 12 @114233 has 49 MA's), (26, 114335), (28, 114377), (35, 114461), (36, 114491),

Gene: Sollertia_234 Start: 111421, Stop: 111729, Start Num: 14
Candidate Starts for Sollertia_234:
(10, 111391), (Start: 14 @111421 has 33 MA's), (18, 111448), (23, 111511), (36, 111679),

Gene: SparkleGoddess_174 Start: 94682, Stop: 94942, Start Num: 16
Candidate Starts for SparkleGoddess_174:
(Start: 16 @94682 has 29 MA's), (22, 94724), (23, 94748), (28, 94784), (29, 94790), (31, 94832),

Gene: Spelly_241 Start: 110741, Stop: 111049, Start Num: 14
Candidate Starts for Spelly_241:
(10, 110711), (Start: 14 @110741 has 33 MA's), (Start: 15 @110747 has 1 MA's), (18, 110768), (31, 110933), (32, 110936), (36, 110999),

Gene: Spilled_243 Start: 111945, Stop: 112253, Start Num: 14
Candidate Starts for Spilled_243:
(10, 111915), (Start: 14 @111945 has 33 MA's), (Start: 15 @111951 has 1 MA's), (18, 111972), (31, 112137), (32, 112140), (36, 112203),

Gene: Squillium_227 Start: 113386, Stop: 113694, Start Num: 12
Candidate Starts for Squillium_227:
(10, 113359), (Start: 12 @113386 has 49 MA's), (18, 113413), (26, 113488), (34, 113605), (35, 113614), (36, 113644),

Gene: Stanimal_233 Start: 111793, Stop: 112098, Start Num: 14
Candidate Starts for Stanimal_233:
(Start: 14 @111793 has 33 MA's), (18, 111820), (23, 111883), (36, 112051),

Gene: StarPlatinum_243 Start: 113753, Stop: 114061, Start Num: 14
Candidate Starts for StarPlatinum_243:
(Start: 14 @113753 has 33 MA's), (18, 113780), (31, 113945), (32, 113948), (36, 114011),

Gene: Starbow_233 Start: 110791, Stop: 111093, Start Num: 15
Candidate Starts for Starbow_233:
(10, 110755), (Start: 14 @110785 has 33 MA's), (Start: 15 @110791 has 1 MA's), (18, 110812), (31, 110977), (32, 110980), (36, 111043),

Gene: Stigma_172 Start: 94919, Stop: 95179, Start Num: 16
Candidate Starts for Stigma_172:
(Start: 16 @94919 has 29 MA's), (22, 94961), (23, 94985), (28, 95021), (29, 95027), (31, 95069),

Gene: Sushi23_225 Start: 114739, Stop: 115047, Start Num: 12
Candidate Starts for Sushi23_225:
(10, 114712), (Start: 12 @114739 has 49 MA's), (26, 114841), (35, 114967), (36, 114997),

Gene: Targaryen_224 Start: 114911, Stop: 115222, Start Num: 12
Candidate Starts for Targaryen_224:
(10, 114884), (Start: 12 @114911 has 49 MA's), (17, 114935), (18, 114938), (19, 114944), (31, 115103), (36, 115169),

Gene: Teutsch_223 Start: 114104, Stop: 114412, Start Num: 12
Candidate Starts for Teutsch_223:
(10, 114077), (Start: 12 @114104 has 49 MA's), (26, 114206), (35, 114332), (36, 114362),

Gene: TomSawyer_240 Start: 113256, Stop: 113564, Start Num: 14
Candidate Starts for TomSawyer_240:
(10, 113226), (Start: 14 @113256 has 33 MA's), (Start: 15 @113262 has 1 MA's), (18, 113283), (31, 113448), (32, 113451), (36, 113514),

Gene: Tomas_236 Start: 115186, Stop: 115470, Start Num: 13
Candidate Starts for Tomas_236:
(4, 115075), (5, 115081), (7, 115120), (9, 115135), (Start: 13 @115186 has 1 MA's), (27, 115300), (33, 115360),

Gene: Tribute_220 Start: 114269, Stop: 114577, Start Num: 12
Candidate Starts for Tribute_220:
(10, 114242), (Start: 12 @114269 has 49 MA's), (26, 114371), (35, 114497), (36, 114527),

Gene: Tuesday_243 Start: 111796, Stop: 112104, Start Num: 14
Candidate Starts for Tuesday_243:
(10, 111766), (Start: 14 @111796 has 33 MA's), (Start: 15 @111802 has 1 MA's), (18, 111823), (31, 111988), (32, 111991), (36, 112054),

Gene: TunaTartare_174 Start: 96314, Stop: 96568, Start Num: 16
Candidate Starts for TunaTartare_174:
(Start: 16 @96314 has 29 MA's), (24, 96383), (26, 96392), (28, 96416),

Gene: Wakanda_143 Start: 82748, Stop: 82999, Start Num: 16
Candidate Starts for Wakanda_143:
(Start: 16 @82748 has 29 MA's), (22, 82790), (24, 82817), (31, 82898),

Gene: Warpy_227 Start: 113396, Stop: 113707, Start Num: 12
Candidate Starts for Warpy_227:
(10, 113369), (Start: 12 @113396 has 49 MA's), (17, 113420), (18, 113423), (19, 113429), (31, 113588), (36, 113654),

Gene: WashU_218 Start: 113891, Stop: 114199, Start Num: 12
Candidate Starts for WashU_218:
(10, 113864), (Start: 12 @113891 has 49 MA's), (26, 113993), (35, 114119), (36, 114149),

Gene: Watermoore_223 Start: 114627, Stop: 114935, Start Num: 12
Candidate Starts for Watermoore_223:
(10, 114600), (Start: 12 @114627 has 49 MA's), (26, 114729), (35, 114855), (36, 114885),

Gene: Westy_176 Start: 95231, Stop: 95491, Start Num: 16
Candidate Starts for Westy_176:
(Start: 16 @95231 has 29 MA's), (22, 95273), (23, 95297), (28, 95333), (29, 95339), (31, 95381),

Gene: WhereRU_223 Start: 112878, Stop: 113186, Start Num: 12
Candidate Starts for WhereRU_223:
(10, 112851), (Start: 12 @112878 has 49 MA's), (18, 112905), (26, 112980), (34, 113097), (35, 113106), (36, 113136),

Gene: Wipeout_226 Start: 112208, Stop: 112516, Start Num: 14
Candidate Starts for Wipeout_226:
(10, 112178), (Start: 14 @112208 has 33 MA's), (Start: 15 @112214 has 1 MA's), (18, 112235), (31, 112400), (32, 112403), (36, 112466),

Gene: Wofford_236 Start: 114496, Stop: 114804, Start Num: 14
Candidate Starts for Wofford_236:
(10, 114466), (Start: 14 @114496 has 33 MA's), (18, 114523), (32, 114691), (34, 114715), (36, 114754),

Gene: Yaboi_238 Start: 111356, Stop: 111661, Start Num: 14
Candidate Starts for Yaboi_238:
(Start: 14 @111356 has 33 MA's), (18, 111383), (23, 111446), (36, 111614),