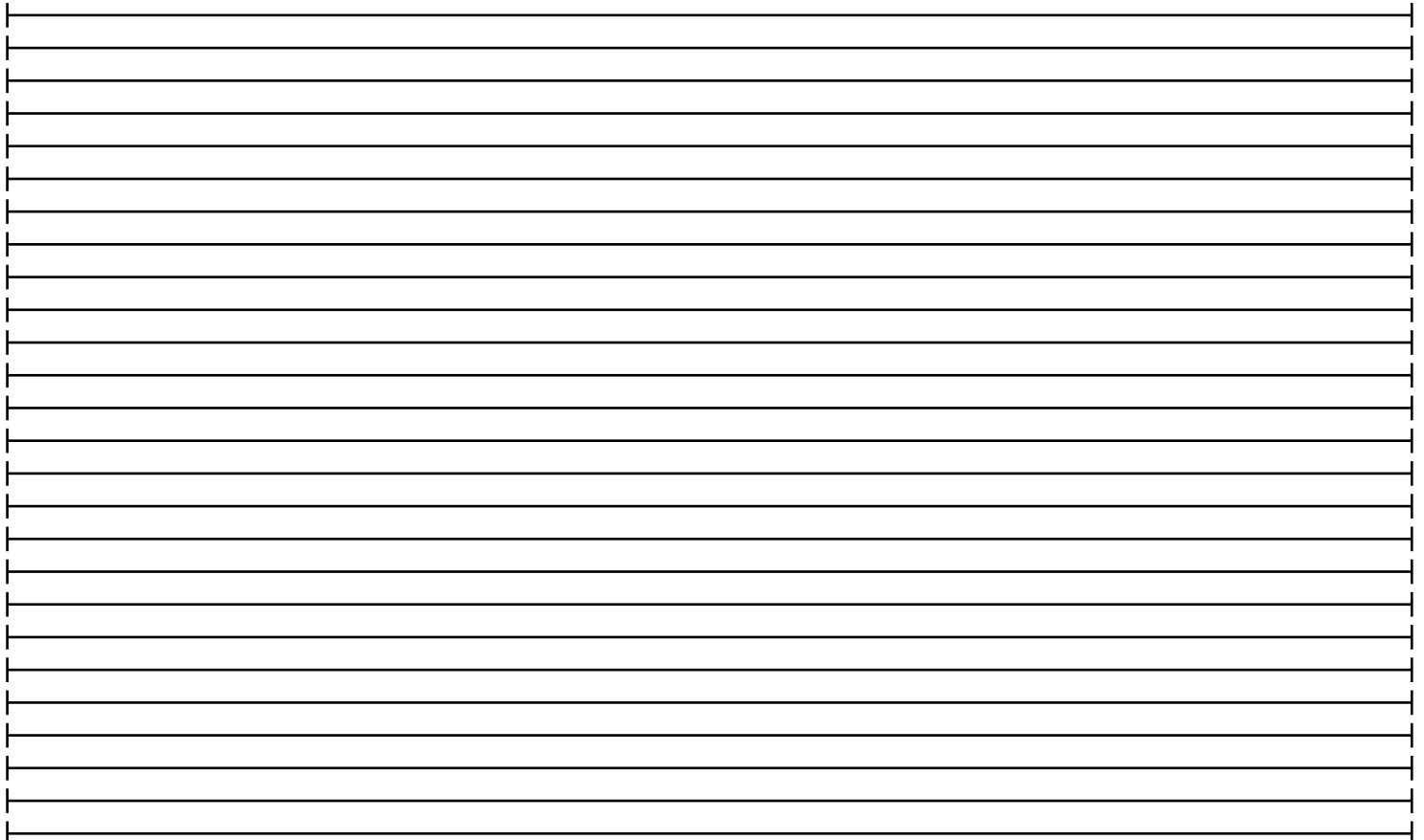
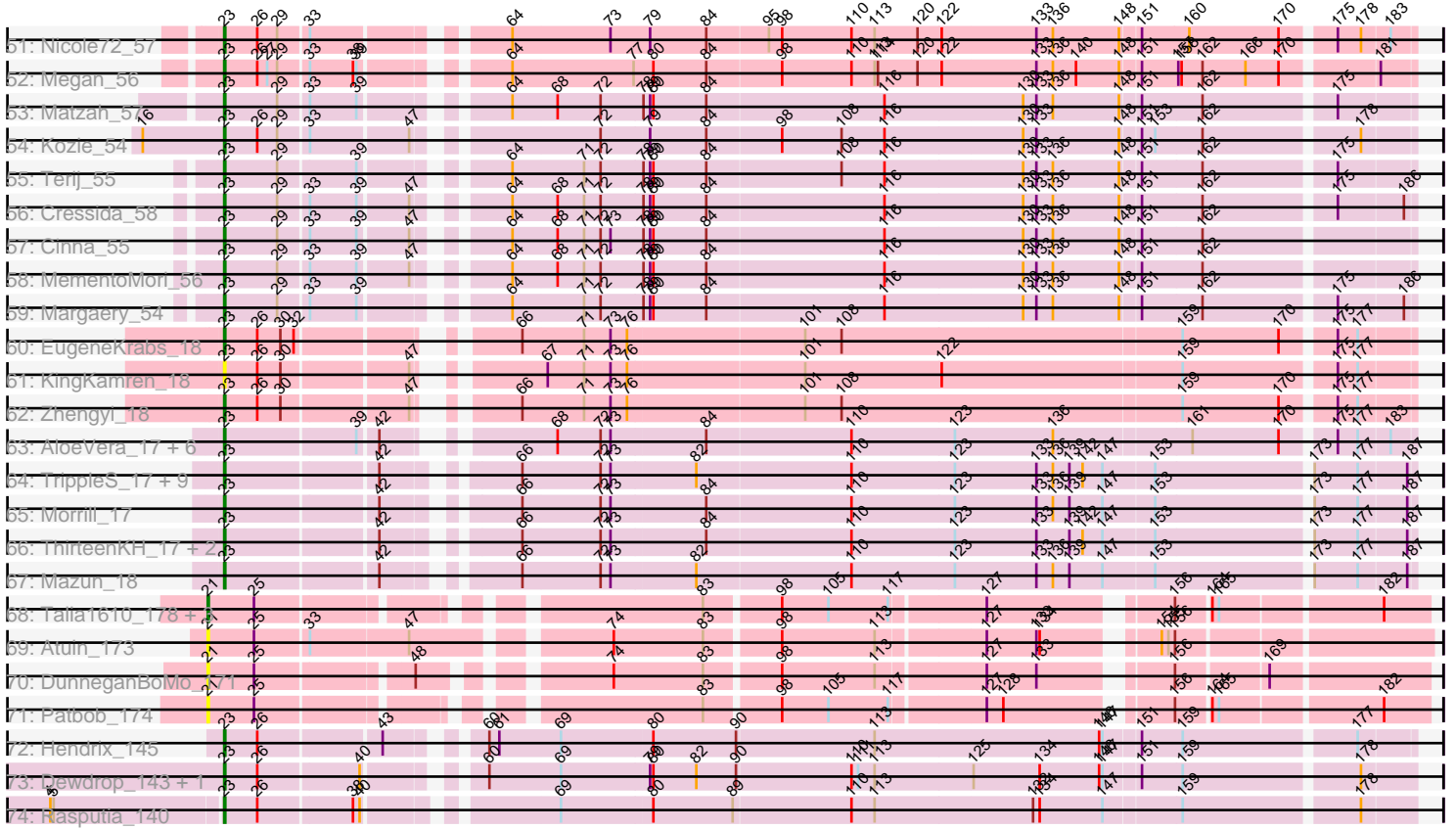


Table with 50 rows and columns. Each row represents a name and ID (e.g., '1. Leutsch_029+9'). The cells contain numerical values or symbols such as '33', '81', '93', '102', '110', '118', '121', '123', '131', '149', '150', '156', '167', '172', '174', '179', '188', '199'. Some cells have red horizontal lines or other markings.

Pham 157592



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 157592 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157592 has 205 members, 41 are drafts.

Phages represented in each track:

- Track 1 : Teutsch_2, Samisti12_253, Sushi23_253, Sushi23_2, Tribute_248, Larnav_4, Larnav_263, Teutsch_249, Tribute_2, Samisti12_2
- Track 2 : Pepperwood_252, Pepperwood_3
- Track 3 : Jay2Jay_5, Jay2Jay_260, Warpy_257, Warpy_5
- Track 4 : Braelyn_3, Bartholomune_3, Paradiddles_3, Bartholomune_253, NootNoot_3, Squillium_3, Braelyn_248, Paradiddles_244, NootNoot_248, PinkiePie_3, Liandry_3, Liandry_252, PinkiePie_253, Squillium_255
- Track 5 : Cursive_256, Cursive_2
- Track 6 : EGole_2, EGole_256
- Track 7 : BlueOtter_2, HangryHippo_2, Watermoore_2, Watermoore_249, Leo04_253, HangryHippo_254, Cross_250, Cross_2, Leo04_2, BlueOtter_254
- Track 8 : Persimmon_253, Persimmon_2
- Track 9 : Mildred21_3, Mildred21_266
- Track 10 : Bmoc_2, Bmoc_258
- Track 11 : Evy_2, Evy_240, Targaryen_2, Targaryen_253
- Track 12 : Anedea_3, Anedea_265
- Track 13 : Peebs_2, Peebs_249
- Track 14 : MulchMansion_258, LilMartin_254, MulchMansion_2, LilMartin_2
- Track 15 : Lululemon_252, Lululemon_2, PacManQ_253, PacManQ_2
- Track 16 : Angela_2, Angela_259
- Track 17 : Battuta_260, Karimac_3, Starbow_3, Battuta_3, SaltySpitoon_3, KentuckyRacer_277, Starbow_260, SaltySpitoon_263, KentuckyRacer_3, CeilingFan_276, CeilingFan_2, Karimac_261, IchabodCrane_255, IchabodCrane_2
- Track 18 : MindFlayer_2, JimJam_271, Jollison_267, Spilled_2, PumpkinSpice_3, PumpkinSpice_267, MindFlayer_254, Quaran19_264, Bordeaux_3, Spelly_269, Bordeaux_260, Amabiko_267, Spilled_270, Amabiko_3, Jollison_3, Spelly_3, JimJam_3, Quaran19_3
- Track 19 : Gibbi_2, Gibbi_273
- Track 20 : StarPlatinum_2, StarPlatinum_272
- Track 21 : Sollertia_260, BoomerJR_259, Yaboi_4, Stanimal_259, Genie2_259, Genie2_4, Yaboi_265, Sollertia_4, Stanimal_4, BoomerJR_4
- Track 22 : Wofford_3, Wofford_261
- Track 23 : Elmer_3, Elmer_279
- Track 24 : Mugiwara_274, Mugiwara_2
- Track 25 : Enygma_270, Enygma_2
- Track 26 : Wipeout_255, Wipeout_2
- Track 27 : TomSawyer_2, TomSawyer_267

- Track 28 : Tomas_3, Tomas_258
- Track 29 : LukeCage_2, LukeCage_265
- Track 30 : Belfort_218, Karp_214, Stigma_217, SparkleGoddess_218, Comrade_215
- Track 31 : Limpid_212, Annadreamy_205
- Track 32 : Beuffert_213
- Track 33 : Moab_220
- Track 34 : Gilson_218, Emma1919_221, Jada_220
- Track 35 : Phredrick_223
- Track 36 : Blueeyedbeauty_214
- Track 37 : TunaTartare_218, Sham_210
- Track 38 : Patelgo_221
- Track 39 : Kenrey_224
- Track 40 : Francob_223
- Track 41 : Faust_215, SeresaTree_219
- Track 42 : MeganTheeKilla_223
- Track 43 : Forrest_221
- Track 44 : Weasels2_189
- Track 45 : Grayson_185
- Track 46 : Peregrin_181
- Track 47 : Trina_210
- Track 48 : NiceHouse_208
- Track 49 : Dorin_194
- Track 50 : Francesca_197
- Track 51 : Nicole72_57
- Track 52 : Megan_56
- Track 53 : Matzah_57
- Track 54 : Kozie_54
- Track 55 : Terij_55
- Track 56 : Cressida_58
- Track 57 : Cinna_55
- Track 58 : MementoMori_56
- Track 59 : Margaery_54
- Track 60 : EugeneKrabs_18
- Track 61 : KingKamren_18
- Track 62 : Zhengyi_18
- Track 63 : AloeVera_17, Ashton_17, Truong_17, JordanFarm_17, Barroma_17, Waterlily_17, Akoni_17
- Track 64 : TrippleS_17, Astartes_18, Pharky_18, Moleficent_18, RicoCaldo_18, Fullmetal_18, StagePhright_18, Phedro_18, Phracted_18, PhriedRice_18
- Track 65 : Morrill_17
- Track 66 : ThirteenKH_17, Yafa_17, Atraxi_17
- Track 67 : Mazun_18
- Track 68 : Talia1610_178, Racecar_176, Mimi_181, Bloom_179
- Track 69 : Atuin_173
- Track 70 : DunneganBoMo_171
- Track 71 : Patbob_174
- Track 72 : Hendrix_145
- Track 73 : Dewdrop_143, Leaf_143
- Track 74 : Rasputia_140

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

The start number called the most often in the published annotations is 22, it was called in 85 of the 164 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea_265, Anedea_3, Angela_2, Angela_259, Annadreamy_205, Bartholomune_253, Bartholomune_3, Battuta_260, Battuta_3, Beuffert_213, BlueOtter_2, BlueOtter_254, Blueeyedbeauty_214, Bmoc_2, Bmoc_258, BoomerJR_259, BoomerJR_4, Braelyn_248, Braelyn_3, CeilingFan_2, CeilingFan_276, Cross_2, Cross_250, Cursive_2, Cursive_256, Elmer_279, Elmer_3, Enygma_2, Enygma_270, Evy_2, Evy_240, Genie2_259, Genie2_4, Gibbi_2, Gibbi_273, HangryHippo_2, HangryHippo_254, IchabodCrane_2, IchabodCrane_255, Karimac_261, Karimac_3, KentuckyRacer_277, KentuckyRacer_3, Larnav_263, Larnav_4, Leo04_2, Leo04_253, Liandry_252, Liandry_3, LilMartin_2, LilMartin_254, Limpid_212, LukeCage_2, LukeCage_265, Lululemon_2, Lululemon_252, Mildred21_266, Mildred21_3, MulchMansion_2, MulchMansion_258, NiceHouse_208, NootNoot_248, NootNoot_3, PacManQ_2, PacManQ_253, Paradiddles_244, Paradiddles_3, Pepperwood_252, Pepperwood_3, Persimmon_2, Persimmon_253, PinkiePie_253, PinkiePie_3, SaltySpitooon_263, SaltySpitooon_3, Samisti12_2, Samisti12_253, Sollertia_260, Sollertia_4, Squillium_255, Squillium_3, Stanimal_259, Stanimal_4, StarPlatinum_2, StarPlatinum_272, Starbow_260, Starbow_3, Sushi23_2, Sushi23_253, Targaryen_2, Targaryen_253, Teutsch_2, Teutsch_249, TomSawyer_2, TomSawyer_267, Tomas_258, Tomas_3, Tribute_2, Tribute_248, Watermoore_2, Watermoore_249, Wofford_261, Wofford_3, Yaboi_265, Yaboi_4,

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

- Amabiko_267, Amabiko_3, Bordeaux_260, Bordeaux_3, EGole_2, EGole_256, Jay2Jay_260, Jay2Jay_5, JimJam_271, JimJam_3, Jollison_267, Jollison_3, MindFlayer_2, MindFlayer_254, Mugiwara_2, Mugiwara_274, Peebs_2, Peebs_249, PumpkinSpice_267, PumpkinSpice_3, Quarant19_264, Quarant19_3, Spelly_269, Spelly_3, Spilled_2, Spilled_270, Warpy_257, Warpy_5, Wipeout_2, Wipeout_255,

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

- Akoni_17, AloeVera_17, Ashton_17, Astartes_18, Atraxi_17, Atuin_173, Barroma_17, Belfort_218, Bloom_179, Cinna_55, Comrade_215, Cressida_58, Dewdrop_143, Dorin_194, DunneganBoMo_171, Emma1919_221, EugeneKrabs_18, Faust_215, Forrest_221, Francesca_197, Francob_223, Fullmetal_18, Gilson_218, Grayson_185, Hendrix_145, Jada_220, JordanFarm_17, Karp_214, Kenrey_224, KingKamren_18, Kozi_54, Leaf_143, Margaery_54, Matzah_57, Mazun_18, MeganTheeKilla_223, Megan_56, MementoMori_56, Mimi_181, Moab_220, Moleficent_18, Morrill_17, Nicole72_57, Patbob_174, Patelgo_221, Peregrin_181, Pharky_18, Phedro_18, Phracted_18, Phredrick_223, PhriedRice_18, Racecar_176, Rasputia_140, RicoCaldo_18, SeresaTree_219, Sham_210, SparkleGoddess_218, StagePhright_18, Stigma_217, Talia1610_178, Terij_55, ThirteenKH_17, Trina_210, TrippleS_17, Truong_17, TunaTartare_218, Waterlily_17, Weasels2_189, Yafa_17, Zhengyi_18,

Summary by start number:

Start 1:

- Found in 14 of 205 (6.8%) of genes in pham

- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Mugiwara_2 (BE2), Mugiwara_274 (BE2),

Start 3:

- Found in 20 of 205 (9.8%) of genes in pham
- Manual Annotations of this start: 4 of 164
- Called 20.0% of time when present
- Phage (with cluster) where this start called: EGole_2 (BE1), EGole_256 (BE1), Peebs_2 (BE1), Peebs_249 (BE1),

Start 10:

- Found in 40 of 205 (19.5%) of genes in pham
- Manual Annotations of this start: 4 of 164
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Jay2Jay_260 (BE1), Jay2Jay_5 (BE1), Warpy_257 (BE1), Warpy_5 (BE1),

Start 17:

- Found in 36 of 205 (17.6%) of genes in pham
- Manual Annotations of this start: 18 of 164
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Amabiko_267 (BE2), Amabiko_3 (BE2), Bordeaux_260 (BE2), Bordeaux_3 (BE2), JimJam_271 (BE2), JimJam_3 (BE2), Jollison_267 (BE2), Jollison_3 (BE2), MindFlayer_2 (BE2), MindFlayer_254 (BE2), PumpkinSpice_267 (BE2), PumpkinSpice_3 (BE2), Quarant19_264 (BE2), Quarant19_3 (BE2), Spelly_269 (BE2), Spelly_3 (BE2), Spilled_2 (BE2), Spilled_270 (BE2), Wipeout_2 (BE2), Wipeout_255 (BE2),

Start 19:

- Found in 8 of 205 (3.9%) of genes in pham
- Manual Annotations of this start: 8 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort_218 (BK1), Comrade_215 (BK1), Francob_223 (BK1), Karp_214 (BK1), Moab_220 (BK1), Patelgo_221 (BK1), SparkleGoddess_218 (BK1), Stigma_217 (BK1),

Start 20:

- Found in 6 of 205 (2.9%) of genes in pham
- Manual Annotations of this start: 4 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin_194 (CG), Francesca_197 (CG), Grayson_185 (CB), Peregrin_181 (CB), Trina_210 (CE), Weasels2_189 (CB),

Start 21:

- Found in 18 of 205 (8.8%) of genes in pham
- Manual Annotations of this start: 11 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin_173 (FC), Bloom_179 (FC), DunneganBoMo_171 (FC), Emma1919_221 (BK1), Faust_215 (BK1), Forrest_221 (BK1), Gilson_218 (BK1), Jada_220 (BK1), Kenrey_224 (BK1), MeganTheeKilla_223 (BK1), Mimi_181 (FC), Patbob_174 (FC), Phredrick_223 (BK1), Racecar_176 (FC),

SeresaTree_219 (BK1), Sham_210 (BK1), Talia1610_178 (FC), TunaTartare_218 (BK1),

Start 22:

- Found in 135 of 205 (65.9%) of genes in pham
- Manual Annotations of this start: 85 of 164
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Anedea_265 (BE1), Anedea_3 (BE1), Angela_2 (BE1), Angela_259 (BE1), Annadreamy_205 (BK1), Bartholomune_253 (BE1), Bartholomune_3 (BE1), Battuta_260 (BE2), Battuta_3 (BE2), Beuffert_213 (BK1), BlueOtter_2 (BE1), BlueOtter_254 (BE1), Blueeyedbeauty_214 (BK1), Bmoc_2 (BE1), Bmoc_258 (BE1), BoomerJR_259 (BE2), BoomerJR_4 (BE2), Braelyn_248 (BE1), Braelyn_3 (BE1), CeilingFan_2 (BE2), CeilingFan_276 (BE2), Cross_2 (BE1), Cross_250 (BE1), Cursive_2 (BE1), Cursive_256 (BE1), Elmer_279 (BE2), Elmer_3 (BE2), Enygma_2 (BE2), Enygma_270 (BE2), Evy_2 (BE1), Evy_240 (BE1), Genie2_259 (BE2), Genie2_4 (BE2), Gibbi_2 (BE2), Gibbi_273 (BE2), HangryHippo_2 (BE1), HangryHippo_254 (BE1), IchabodCrane_2 (BE2), IchabodCrane_255 (BE2), Karimac_261 (BE2), Karimac_3 (BE2), KentuckyRacer_277 (BE2), KentuckyRacer_3 (BE2), Larnav_263 (BE1), Larnav_4 (BE1), Leo04_2 (BE1), Leo04_253 (BE1), Liandry_252 (BE1), Liandry_3 (BE1), LilMartin_2 (BE1), LilMartin_254 (BE1), Limpid_212 (BK1), LukeCage_2 (BE2), LukeCage_265 (BE2), Lululemon_2 (BE1), Lululemon_252 (BE1), Mildred21_266 (BE1), Mildred21_3 (BE1), MulchMansion_2 (BE1), MulchMansion_258 (BE1), NiceHouse_208 (CE), NootNoot_248 (BE1), NootNoot_3 (BE1), PacManQ_2 (BE1), PacManQ_253 (BE1), Paradiddles_244 (BE1), Paradiddles_3 (BE1), Pepperwood_252 (BE1), Pepperwood_3 (BE1), Persimmon_2 (BE1), Persimmon_253 (BE1), PinkiePie_253 (BE1), PinkiePie_3 (BE1), SaltySpittoon_263 (BE2), SaltySpittoon_3 (BE2), Samisti12_2 (BE1), Samisti12_253 (BE1), Sollertia_260 (BE2), Sollertia_4 (BE2), Squillium_255 (BE1), Squillium_3 (BE1), Stanimal_259 (BE2), Stanimal_4 (BE2), StarPlatinum_2 (BE2), StarPlatinum_272 (BE2), Starbow_260 (BE2), Starbow_3 (BE2), Sushi23_2 (BE1), Sushi23_253 (BE1), Targaryen_2 (BE1), Targaryen_253 (BE1), Teutsch_2 (BE1), Teutsch_249 (BE1), TomSawyer_2 (BE2), TomSawyer_267 (BE2), Tomas_258 (BE2), Tomas_3 (BE2), Tribute_2 (BE1), Tribute_248 (BE1), Watermoore_2 (BE1), Watermoore_249 (BE1), Wofford_261 (BE2), Wofford_3 (BE2), Yaboi_265 (BE2), Yaboi_4 (BE2),

Start 23:

- Found in 38 of 205 (18.5%) of genes in pham
- Manual Annotations of this start: 30 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akoni_17 (EK2), AloeVera_17 (EK2), Ashton_17 (EK2), Astartes_18 (EK2), Atraxi_17 (EK2), Barroma_17 (EK2), Cinna_55 (EI), Cressida_58 (EI), Dewdrop_143 (GC), EugeneKrabs_18 (EK), Fullmetal_18 (EK2), Hendrix_145 (GC), JordanFarm_17 (EK2), KingKamren_18 (EK), Kozi_54 (EI), Leaf_143 (GC), Margaery_54 (EI), Matzah_57 (EI), Mazun_18 (EK2), Megan_56 (EC), MementoMori_56 (EI), Moleficent_18 (EK2), Morrill_17 (EK2), Nicole72_57 (EC), Pharky_18 (EK2), Phedro_18 (EK2), Phracted_18 (EK2), PhriedRice_18 (EK2), Rasputia_140 (GC), RicoCaldo_18 (EK2), StagePhright_18 (EK2), Terij_55 (EI), ThirteenKH_17 (EK2), TrippleS_17 (EK2), Truong_17 (EK2), Waterlily_17 (EK2), Yafa_17 (EK2), Zhengyi_18 (EK),

Summary by clusters:

There are 12 clusters represented in this pham: EI, EK, CB, CG, EC, FC, GC, BK1, CE, BE2, BE1, EK2,

Info for manual annotations of cluster BE1:

- Start number 3 was manually annotated 4 times for cluster BE1.
- Start number 10 was manually annotated 4 times for cluster BE1.
- Start number 22 was manually annotated 48 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 17 was manually annotated 18 times for cluster BE2.
- Start number 22 was manually annotated 32 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 19 was manually annotated 8 times for cluster BK1.
- Start number 21 was manually annotated 10 times for cluster BK1.
- Start number 22 was manually annotated 4 times for cluster BK1.

Info for manual annotations of cluster CB:

- Start number 20 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 20 was manually annotated 1 time for cluster CE.
- Start number 22 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster EC:

- Start number 23 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 23 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster EK:

- Start number 23 was manually annotated 2 times for cluster EK.

Info for manual annotations of cluster EK2:

- Start number 23 was manually annotated 15 times for cluster EK2.

Info for manual annotations of cluster FC:

- Start number 21 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GC:

- Start number 23 was manually annotated 4 times for cluster GC.

Gene Information:

Gene: Akoni_17 Start: 12296, Stop: 11307, Start Num: 23

Candidate Starts for Akoni_17:

(Start: 23 @12296 has 30 MA's), (39, 12182), (42, 12167), (68, 12053), (72, 12014), (73, 12005), (84, 11921), (110, 11792), (123, 11699), (136, 11612), (161, 11492), (170, 11414), (175, 11372), (177, 11354), (183, 11327),

Gene: AloeVera_17 Start: 12296, Stop: 11307, Start Num: 23

Candidate Starts for AloeVera_17:

(Start: 23 @12296 has 30 MA's), (39, 12182), (42, 12167), (68, 12053), (72, 12014), (73, 12005), (84, 11921), (110, 11792), (123, 11699), (136, 11612), (161, 11492), (170, 11414), (175, 11372), (177, 11354), (183, 11327),

Gene: Amabiko_267 Start: 121477, Stop: 120437, Start Num: 17

Candidate Starts for Amabiko_267:

(Start: 17 @121477 has 18 MA's), (Start: 22 @121432 has 85 MA's), (36, 121321), (42, 121288), (50, 121255), (55, 121243), (57, 121234), (69, 121186), (70, 121168), (71, 121165), (93, 121021), (96, 121012), (103, 120970), (110, 120940), (118, 120901), (121, 120883), (123, 120853), (131, 120790), (156, 120658), (167, 120598), (172, 120550), (179, 120493), (188, 120457),

Gene: Amabiko_3 Start: 2651, Stop: 1611, Start Num: 17

Candidate Starts for Amabiko_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: Anedea_3 Start: 2288, Stop: 1266, Start Num: 22

Candidate Starts for Anedea_3:

(Start: 22 @2288 has 85 MA's), (33, 2207), (36, 2177), (42, 2144), (45, 2129), (47, 2117), (49, 2111), (56, 2072), (69, 2018), (81, 1907), (82, 1904), (93, 1853), (102, 1808), (110, 1772), (118, 1733), (121, 1715), (123, 1685), (131, 1622), (135, 1604), (150, 1526), (156, 1493), (172, 1385), (174, 1367), (179, 1328),

Gene: Anedea_265 Start: 125337, Stop: 124315, Start Num: 22

Candidate Starts for Anedea_265:

(Start: 22 @125337 has 85 MA's), (33, 125256), (36, 125226), (42, 125193), (45, 125178), (47, 125166), (49, 125160), (56, 125121), (69, 125067), (81, 124956), (82, 124953), (93, 124902), (102, 124857), (110, 124821), (118, 124782), (121, 124764), (123, 124734), (131, 124671), (135, 124653), (150, 124575), (156, 124542), (172, 124434), (174, 124416), (179, 124377),

Gene: Angela_2 Start: 2274, Stop: 1258, Start Num: 22

Candidate Starts for Angela_2:

(18, 2286), (Start: 22 @2274 has 85 MA's), (33, 2193), (36, 2163), (45, 2115), (46, 2106), (47, 2103), (49, 2097), (52, 2073), (56, 2058), (69, 2004), (81, 1893), (93, 1839), (110, 1758), (118, 1719), (121, 1701), (123, 1671), (131, 1608), (150, 1512), (156, 1479), (167, 1419), (172, 1371), (174, 1353), (179, 1314),

Gene: Angela_259 Start: 124677, Stop: 123661, Start Num: 22

Candidate Starts for Angela_259:

(18, 124689), (Start: 22 @124677 has 85 MA's), (33, 124596), (36, 124566), (45, 124518), (46, 124509), (47, 124506), (49, 124500), (52, 124476), (56, 124461), (69, 124407), (81, 124296), (93, 124242), (110, 124161), (118, 124122), (121, 124104), (123, 124074), (131, 124011), (150, 123915), (156, 123882), (167, 123822), (172, 123774), (174, 123756), (179, 123717),

Gene: Annadreamy_205 Start: 103409, Stop: 104425, Start Num: 22

Candidate Starts for Annadreamy_205:

(Start: 22 @103409 has 85 MA's), (24, 103436), (34, 103508), (36, 103523), (44, 103562), (63, 103631), (70, 103676), (98, 103850), (107, 103898), (113, 103934), (115, 103940), (122, 103985), (131, 104060), (136, 104084), (163, 104219), (176, 104348), (177, 104354), (184, 104387), (188,

104399), (189, 104402),

Gene: Ashton_17 Start: 12300, Stop: 11311, Start Num: 23

Candidate Starts for Ashton_17:

(Start: 23 @12300 has 30 MA's), (39, 12186), (42, 12171), (68, 12057), (72, 12018), (73, 12009), (84, 11925), (110, 11796), (123, 11703), (136, 11616), (161, 11496), (170, 11418), (175, 11376), (177, 11358), (183, 11331),

Gene: Astartes_18 Start: 12572, Stop: 11568, Start Num: 23

Candidate Starts for Astartes_18:

(Start: 23 @12572 has 30 MA's), (42, 12443), (66, 12347), (72, 12278), (73, 12269), (82, 12194), (110, 12056), (123, 11963), (133, 11891), (136, 11876), (139, 11861), (142, 11849), (147, 11831), (153, 11786), (173, 11654), (177, 11615), (187, 11573),

Gene: Atraxi_17 Start: 12329, Stop: 11325, Start Num: 23

Candidate Starts for Atraxi_17:

(Start: 23 @12329 has 30 MA's), (42, 12200), (66, 12104), (72, 12035), (73, 12026), (84, 11942), (110, 11813), (123, 11720), (133, 11648), (139, 11618), (142, 11606), (147, 11588), (153, 11543), (173, 11411), (177, 11372), (187, 11330),

Gene: Atuin_173 Start: 115486, Stop: 116493, Start Num: 21

Candidate Starts for Atuin_173:

(Start: 21 @115486 has 11 MA's), (25, 115528), (33, 115573), (47, 115660), (74, 115816), (83, 115897), (98, 115960), (113, 116044), (127, 116134), (133, 116179), (134, 116182), (154, 116266), (155, 116272), (156, 116278),

Gene: Barroma_17 Start: 12296, Stop: 11307, Start Num: 23

Candidate Starts for Barroma_17:

(Start: 23 @12296 has 30 MA's), (39, 12182), (42, 12167), (68, 12053), (72, 12014), (73, 12005), (84, 11921), (110, 11792), (123, 11699), (136, 11612), (161, 11492), (170, 11414), (175, 11372), (177, 11354), (183, 11327),

Gene: Bartholomune_3 Start: 2417, Stop: 1404, Start Num: 22

Candidate Starts for Bartholomune_3:

(2, 2567), (6, 2531), (Start: 10 @2510 has 4 MA's), (13, 2492), (Start: 22 @2417 has 85 MA's), (33, 2336), (36, 2306), (47, 2246), (52, 2216), (56, 2201), (57, 2198), (69, 2150), (81, 2039), (93, 1985), (102, 1940), (110, 1904), (118, 1865), (121, 1847), (123, 1817), (150, 1658), (156, 1625), (167, 1565), (172, 1517), (174, 1499), (179, 1460),

Gene: Bartholomune_253 Start: 123516, Stop: 122503, Start Num: 22

Candidate Starts for Bartholomune_253:

(2, 123666), (6, 123630), (Start: 10 @123609 has 4 MA's), (13, 123591), (Start: 22 @123516 has 85 MA's), (33, 123435), (36, 123405), (47, 123345), (52, 123315), (56, 123300), (57, 123297), (69, 123249), (81, 123138), (93, 123084), (102, 123039), (110, 123003), (118, 122964), (121, 122946), (123, 122916), (150, 122757), (156, 122724), (167, 122664), (172, 122616), (174, 122598), (179, 122559),

Gene: Battuta_260 Start: 120761, Stop: 119766, Start Num: 22

Candidate Starts for Battuta_260:

(Start: 17 @120806 has 18 MA's), (Start: 22 @120761 has 85 MA's), (36, 120650), (42, 120617), (50, 120584), (55, 120572), (57, 120563), (69, 120515), (70, 120497), (71, 120494), (93, 120350), (96, 120341), (103, 120299), (110, 120269), (118, 120230), (121, 120212), (123, 120182), (131, 120119), (156, 119987), (167, 119927), (172, 119879), (179, 119822), (188, 119786),

Gene: Battuta_3 Start: 2606, Stop: 1611, Start Num: 22

Candidate Starts for Battuta_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: Belfort_218 Start: 108041, Stop: 109063, Start Num: 19

Candidate Starts for Belfort_218:

(Start: 19 @108041 has 8 MA's), (24, 108071), (36, 108152), (41, 108170), (47, 108212), (52, 108230), (57, 108248), (86, 108428), (98, 108491), (103, 108524), (106, 108536), (107, 108539), (109, 108551), (122, 108626), (131, 108701), (136, 108725), (143, 108755), (154, 108818), (188, 109037),

Gene: Beuffert_213 Start: 107581, Stop: 108594, Start Num: 22

Candidate Starts for Beuffert_213:

(Start: 22 @107581 has 85 MA's), (24, 107608), (34, 107680), (36, 107695), (44, 107734), (63, 107803), (70, 107848), (98, 108022), (113, 108106), (115, 108112), (122, 108157), (131, 108232), (136, 108256), (163, 108391), (176, 108520), (188, 108571), (189, 108574),

Gene: Bloom_179 Start: 116047, Stop: 117021, Start Num: 21

Candidate Starts for Bloom_179:

(Start: 21 @116047 has 11 MA's), (25, 116089), (83, 116428), (98, 116491), (105, 116533), (117, 116587), (127, 116665), (156, 116809), (164, 116836), (165, 116842), (182, 116980),

Gene: BlueOtter_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for BlueOtter_2:

(Start: 3 @2372 has 4 MA's), (Start: 10 @2318 has 4 MA's), (13, 2300), (Start: 22 @2225 has 85 MA's), (36, 2114), (42, 2081), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: BlueOtter_254 Start: 123312, Stop: 122299, Start Num: 22

Candidate Starts for BlueOtter_254:

(Start: 3 @123459 has 4 MA's), (Start: 10 @123405 has 4 MA's), (13, 123387), (Start: 22 @123312 has 85 MA's), (36, 123201), (42, 123168), (47, 123141), (50, 123132), (52, 123111), (56, 123096), (69, 123045), (81, 122934), (93, 122880), (110, 122799), (118, 122760), (121, 122742), (123, 122712), (131, 122649), (149, 122565), (150, 122553), (156, 122520), (167, 122460), (172, 122412), (174, 122394), (179, 122355),

Gene: Blueeyedbeauty_214 Start: 107117, Stop: 108130, Start Num: 22

Candidate Starts for Blueeyedbeauty_214:

(Start: 22 @107117 has 85 MA's), (24, 107144), (34, 107216), (36, 107231), (44, 107270), (63, 107339), (98, 107558), (107, 107606), (113, 107642), (115, 107648), (122, 107693), (131, 107768), (136, 107792), (163, 107927), (176, 108056), (188, 108107), (189, 108110),

Gene: Bmoc_2 Start: 2308, Stop: 1286, Start Num: 22

Candidate Starts for Bmoc_2:

(Start: 22 @2308 has 85 MA's), (33, 2227), (36, 2197), (45, 2149), (47, 2137), (49, 2131), (56, 2092), (69, 2038), (81, 1927), (82, 1924), (93, 1873), (102, 1828), (110, 1792), (118, 1753), (121, 1735), (123, 1705), (131, 1642), (135, 1624), (150, 1546), (156, 1513), (172, 1405), (174, 1387), (179, 1348),

Gene: Bmoc_258 Start: 124130, Stop: 123108, Start Num: 22

Candidate Starts for Bmoc_258:

(Start: 22 @124130 has 85 MA's), (33, 124049), (36, 124019), (45, 123971), (47, 123959), (49, 123953), (56, 123914), (69, 123860), (81, 123749), (82, 123746), (93, 123695), (102, 123650), (110, 123614), (118, 123575), (121, 123557), (123, 123527), (131, 123464), (135, 123446), (150, 123368), (156, 123335), (172, 123227), (174, 123209), (179, 123170),

Gene: BoomerJR_259 Start: 121416, Stop: 120415, Start Num: 22

Candidate Starts for BoomerJR_259:

(14, 121482), (15, 121473), (Start: 22 @121416 has 85 MA's), (36, 121305), (57, 121218), (88, 121026), (93, 121005), (96, 120996), (103, 120954), (110, 120924), (118, 120885), (121, 120867), (123, 120837), (131, 120774), (156, 120642), (167, 120582), (172, 120534), (174, 120516), (179, 120477),

Gene: BoomerJR_4 Start: 2628, Stop: 1627, Start Num: 22

Candidate Starts for BoomerJR_4:

(14, 2694), (15, 2685), (Start: 22 @2628 has 85 MA's), (36, 2517), (57, 2430), (88, 2238), (93, 2217), (96, 2208), (103, 2166), (110, 2136), (118, 2097), (121, 2079), (123, 2049), (131, 1986), (156, 1854), (167, 1794), (172, 1746), (174, 1728), (179, 1689),

Gene: Bordeaux_3 Start: 2651, Stop: 1611, Start Num: 17

Candidate Starts for Bordeaux_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: Bordeaux_260 Start: 121389, Stop: 120349, Start Num: 17

Candidate Starts for Bordeaux_260:

(Start: 17 @121389 has 18 MA's), (Start: 22 @121344 has 85 MA's), (36, 121233), (42, 121200), (50, 121167), (55, 121155), (57, 121146), (69, 121098), (70, 121080), (71, 121077), (93, 120933), (96, 120924), (103, 120882), (110, 120852), (118, 120813), (121, 120795), (123, 120765), (131, 120702), (156, 120570), (167, 120510), (172, 120462), (179, 120405), (188, 120369),

Gene: Braelyn_3 Start: 2429, Stop: 1416, Start Num: 22

Candidate Starts for Braelyn_3:

(2, 2579), (6, 2543), (Start: 10 @2522 has 4 MA's), (13, 2504), (Start: 22 @2429 has 85 MA's), (33, 2348), (36, 2318), (47, 2258), (52, 2228), (56, 2213), (57, 2210), (69, 2162), (81, 2051), (93, 1997), (102, 1952), (110, 1916), (118, 1877), (121, 1859), (123, 1829), (150, 1670), (156, 1637), (167, 1577), (172, 1529), (174, 1511), (179, 1472),

Gene: Braelyn_248 Start: 122839, Stop: 121826, Start Num: 22

Candidate Starts for Braelyn_248:

(2, 122989), (6, 122953), (Start: 10 @122932 has 4 MA's), (13, 122914), (Start: 22 @122839 has 85 MA's), (33, 122758), (36, 122728), (47, 122668), (52, 122638), (56, 122623), (57, 122620), (69, 122572), (81, 122461), (93, 122407), (102, 122362), (110, 122326), (118, 122287), (121, 122269), (123, 122239), (150, 122080), (156, 122047), (167, 121987), (172, 121939), (174, 121921), (179, 121882),

Gene: CeilingFan_276 Start: 122824, Stop: 121829, Start Num: 22

Candidate Starts for CeilingFan_276:

(Start: 17 @122869 has 18 MA's), (Start: 22 @122824 has 85 MA's), (36, 122713), (42, 122680), (50, 122647), (55, 122635), (57, 122626), (69, 122578), (70, 122560), (71, 122557), (93, 122413), (96, 122404), (103, 122362), (110, 122332), (118, 122293), (121, 122275), (123, 122245), (131, 122182),

(156, 122050), (167, 121990), (172, 121942), (179, 121885), (188, 121849),

Gene: CeilingFan_2 Start: 2217, Stop: 1222, Start Num: 22

Candidate Starts for CeilingFan_2:

(Start: 17 @2262 has 18 MA's), (Start: 22 @2217 has 85 MA's), (36, 2106), (42, 2073), (50, 2040), (55, 2028), (57, 2019), (69, 1971), (70, 1953), (71, 1950), (93, 1806), (96, 1797), (103, 1755), (110, 1725), (118, 1686), (121, 1668), (123, 1638), (131, 1575), (156, 1443), (167, 1383), (172, 1335), (179, 1278), (188, 1242),

Gene: Cinna_55 Start: 38481, Stop: 39482, Start Num: 23

Candidate Starts for Cinna_55:

(Start: 23 @38481 has 30 MA's), (29, 38529), (33, 38553), (39, 38595), (47, 38637), (64, 38697), (68, 38736), (71, 38760), (72, 38775), (73, 38784), (78, 38811), (79, 38817), (80, 38820), (84, 38868), (116, 39027), (130, 39150), (133, 39162), (136, 39177), (148, 39237), (151, 39252), (162, 39306),

Gene: Comrade_215 Start: 108241, Stop: 109263, Start Num: 19

Candidate Starts for Comrade_215:

(Start: 19 @108241 has 8 MA's), (24, 108271), (36, 108352), (41, 108370), (47, 108412), (52, 108430), (57, 108448), (86, 108628), (98, 108691), (103, 108724), (106, 108736), (107, 108739), (109, 108751), (122, 108826), (131, 108901), (136, 108925), (143, 108955), (154, 109018), (188, 109237),

Gene: Cressida_58 Start: 38132, Stop: 39133, Start Num: 23

Candidate Starts for Cressida_58:

(Start: 23 @38132 has 30 MA's), (29, 38180), (33, 38204), (39, 38246), (47, 38288), (64, 38348), (68, 38387), (71, 38411), (72, 38426), (78, 38462), (79, 38468), (80, 38471), (84, 38519), (116, 38678), (130, 38801), (133, 38813), (136, 38828), (148, 38888), (151, 38903), (162, 38957), (175, 39068), (186, 39125),

Gene: Cross_250 Start: 123957, Stop: 122944, Start Num: 22

Candidate Starts for Cross_250:

(Start: 3 @124104 has 4 MA's), (Start: 10 @124050 has 4 MA's), (13, 124032), (Start: 22 @123957 has 85 MA's), (36, 123846), (42, 123813), (47, 123786), (50, 123777), (52, 123756), (56, 123741), (69, 123690), (81, 123579), (93, 123525), (110, 123444), (118, 123405), (121, 123387), (123, 123357), (131, 123294), (149, 123210), (150, 123198), (156, 123165), (167, 123105), (172, 123057), (174, 123039), (179, 123000),

Gene: Cross_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for Cross_2:

(Start: 3 @2372 has 4 MA's), (Start: 10 @2318 has 4 MA's), (13, 2300), (Start: 22 @2225 has 85 MA's), (36, 2114), (42, 2081), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: Cursive_256 Start: 124234, Stop: 123221, Start Num: 22

Candidate Starts for Cursive_256:

(Start: 22 @124234 has 85 MA's), (36, 124123), (42, 124090), (47, 124063), (50, 124054), (52, 124033), (56, 124018), (69, 123967), (81, 123856), (93, 123802), (110, 123721), (118, 123682), (121, 123664), (123, 123634), (131, 123571), (149, 123487), (150, 123475), (156, 123442), (167, 123382), (172, 123334), (174, 123316), (179, 123277),

Gene: Cursive_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for Cursive_2:

(Start: 22 @2225 has 85 MA's), (36, 2114), (42, 2081), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: Dewdrop_143 Start: 85445, Stop: 86449, Start Num: 23

Candidate Starts for Dewdrop_143:

(Start: 23 @85445 has 30 MA's), (26, 85475), (40, 85562), (60, 85640), (69, 85703), (79, 85781), (80, 85784), (82, 85823), (90, 85859), (110, 85961), (111, 85967), (113, 85982), (125, 86069), (134, 86129), (146, 86183), (147, 86186), (151, 86216), (159, 86252), (178, 86402),

Gene: Dorin_194 Start: 106517, Stop: 107539, Start Num: 20

Candidate Starts for Dorin_194:

(Start: 20 @106517 has 4 MA's), (41, 106646), (50, 106697), (69, 106805), (82, 106910), (83, 106916), (96, 106979), (98, 106988), (106, 107033), (109, 107048), (113, 107072), (118, 107087), (127, 107162), (133, 107207), (185, 107507), (191, 107531),

Gene: DunneganBoMo_171 Start: 112270, Stop: 113247, Start Num: 21

Candidate Starts for DunneganBoMo_171:

(Start: 21 @112270 has 11 MA's), (25, 112312), (48, 112438), (74, 112573), (83, 112654), (98, 112717), (113, 112801), (127, 112891), (133, 112936), (156, 113035), (169, 113110),

Gene: EGole_2 Start: 2795, Stop: 1635, Start Num: 3

Candidate Starts for EGole_2:

(Start: 3 @2795 has 4 MA's), (Start: 10 @2741 has 4 MA's), (13, 2723), (Start: 22 @2648 has 85 MA's), (36, 2537), (42, 2504), (47, 2477), (50, 2468), (52, 2447), (56, 2432), (69, 2381), (81, 2270), (82, 2267), (93, 2216), (110, 2135), (118, 2096), (121, 2078), (123, 2048), (131, 1985), (135, 1967), (150, 1889), (156, 1856), (167, 1796), (172, 1748),

Gene: EGole_256 Start: 127107, Stop: 125947, Start Num: 3

Candidate Starts for EGole_256:

(Start: 3 @127107 has 4 MA's), (Start: 10 @127053 has 4 MA's), (13, 127035), (Start: 22 @126960 has 85 MA's), (36, 126849), (42, 126816), (47, 126789), (50, 126780), (52, 126759), (56, 126744), (69, 126693), (81, 126582), (82, 126579), (93, 126528), (110, 126447), (118, 126408), (121, 126390), (123, 126360), (131, 126297), (135, 126279), (150, 126201), (156, 126168), (167, 126108), (172, 126060),

Gene: Elmer_3 Start: 2485, Stop: 1490, Start Num: 22

Candidate Starts for Elmer_3:

(1, 2632), (6, 2593), (7, 2581), (12, 2560), (15, 2542), (Start: 22 @2485 has 85 MA's), (36, 2374), (55, 2296), (57, 2287), (69, 2239), (70, 2221), (71, 2218), (93, 2074), (96, 2065), (110, 1993), (118, 1954), (121, 1936), (123, 1906), (131, 1843), (144, 1786), (156, 1711), (167, 1651), (169, 1630), (172, 1603), (174, 1585), (188, 1510), (190, 1501),

Gene: Elmer_279 Start: 124853, Stop: 123858, Start Num: 22

Candidate Starts for Elmer_279:

(1, 125000), (6, 124961), (7, 124949), (12, 124928), (15, 124910), (Start: 22 @124853 has 85 MA's), (36, 124742), (55, 124664), (57, 124655), (69, 124607), (70, 124589), (71, 124586), (93, 124442), (96, 124433), (110, 124361), (118, 124322), (121, 124304), (123, 124274), (131, 124211), (144, 124154), (156, 124079), (167, 124019), (169, 123998), (172, 123971), (174, 123953), (188, 123878), (190, 123869),

Gene: Emma1919_221 Start: 106800, Stop: 107822, Start Num: 21

Candidate Starts for Emma1919_221:

(Start: 21 @106800 has 11 MA's), (24, 106830), (36, 106911), (41, 106929), (47, 106971), (52, 106989), (57, 107007), (86, 107187), (98, 107250), (103, 107283), (106, 107295), (107, 107298), (109, 107310), (122, 107385), (131, 107460), (136, 107484), (137, 107490), (143, 107514), (154, 107577), (188, 107799), (191, 107814),

Gene: Enygma_270 Start: 124595, Stop: 123600, Start Num: 22

Candidate Starts for Enygma_270:

(1, 124739), (6, 124700), (8, 124685), (11, 124670), (15, 124652), (Start: 22 @124595 has 85 MA's), (36, 124484), (55, 124406), (57, 124397), (91, 124199), (96, 124175), (99, 124163), (103, 124133), (110, 124103), (118, 124064), (121, 124046), (123, 124016), (131, 123953), (156, 123821), (167, 123761), (172, 123713), (179, 123656), (188, 123620),

Gene: Enygma_2 Start: 2171, Stop: 1176, Start Num: 22

Candidate Starts for Enygma_2:

(1, 2315), (6, 2276), (8, 2261), (11, 2246), (15, 2228), (Start: 22 @2171 has 85 MA's), (36, 2060), (55, 1982), (57, 1973), (91, 1775), (96, 1751), (99, 1739), (103, 1709), (110, 1679), (118, 1640), (121, 1622), (123, 1592), (131, 1529), (156, 1397), (167, 1337), (172, 1289), (179, 1232), (188, 1196),

Gene: EugeneKrabs_18 Start: 13122, Stop: 12133, Start Num: 23

Candidate Starts for EugeneKrabs_18:

(Start: 23 @13122 has 30 MA's), (26, 13092), (30, 13071), (32, 13059), (66, 12909), (71, 12855), (73, 12831), (76, 12816), (101, 12660), (108, 12627), (159, 12327), (170, 12240), (175, 12198), (177, 12180),

Gene: Evy_2 Start: 2329, Stop: 1316, Start Num: 22

Candidate Starts for Evy_2:

(Start: 3 @2467 has 4 MA's), (Start: 10 @2422 has 4 MA's), (13, 2404), (18, 2341), (Start: 22 @2329 has 85 MA's), (33, 2248), (36, 2218), (42, 2185), (49, 2152), (52, 2128), (56, 2113), (69, 2062), (93, 1897), (110, 1816), (118, 1777), (121, 1759), (123, 1729), (131, 1666), (135, 1648), (150, 1570), (156, 1537), (172, 1429), (174, 1411), (179, 1372),

Gene: Evy_240 Start: 124058, Stop: 123045, Start Num: 22

Candidate Starts for Evy_240:

(Start: 3 @124196 has 4 MA's), (Start: 10 @124151 has 4 MA's), (13, 124133), (18, 124070), (Start: 22 @124058 has 85 MA's), (33, 123977), (36, 123947), (42, 123914), (49, 123881), (52, 123857), (56, 123842), (69, 123791), (93, 123626), (110, 123545), (118, 123506), (121, 123488), (123, 123458), (131, 123395), (135, 123377), (150, 123299), (156, 123266), (172, 123158), (174, 123140), (179, 123101),

Gene: Faust_215 Start: 108762, Stop: 109772, Start Num: 21

Candidate Starts for Faust_215:

(Start: 21 @108762 has 11 MA's), (24, 108792), (33, 108843), (36, 108873), (44, 108912), (63, 108981), (112, 109278), (125, 109362), (131, 109410), (136, 109434), (137, 109440), (152, 109518), (159, 109545), (177, 109704), (184, 109737), (185, 109740), (189, 109752),

Gene: Forrest_221 Start: 107765, Stop: 108787, Start Num: 21

Candidate Starts for Forrest_221:

(Start: 21 @107765 has 11 MA's), (24, 107795), (36, 107876), (41, 107894), (47, 107936), (52, 107954), (57, 107972), (86, 108152), (98, 108215), (103, 108248), (106, 108260), (107, 108263), (109, 108275), (122, 108350), (131, 108425), (136, 108449), (143, 108479), (154, 108542), (188, 108764), (191, 108779),

Gene: Francesca_197 Start: 107439, Stop: 108461, Start Num: 20

Candidate Starts for Francesca_197:

(Start: 20 @107439 has 4 MA's), (41, 107568), (47, 107610), (50, 107619), (69, 107727), (82, 107832), (83, 107838), (88, 107862), (96, 107901), (98, 107910), (106, 107955), (109, 107970), (113, 107994), (118, 108009), (127, 108084), (133, 108129), (185, 108429),

Gene: Francob_223 Start: 107816, Stop: 108835, Start Num: 19

Candidate Starts for Francob_223:

(Start: 19 @107816 has 8 MA's), (24, 107843), (36, 107924), (41, 107942), (47, 107984), (52, 108002), (57, 108020), (65, 108053), (86, 108200), (98, 108263), (100, 108269), (103, 108296), (104, 108302), (106, 108308), (107, 108311), (109, 108323), (122, 108398), (131, 108473), (136, 108497), (143, 108527), (154, 108590), (188, 108809),

Gene: Fullmetal_18 Start: 12570, Stop: 11566, Start Num: 23

Candidate Starts for Fullmetal_18:

(Start: 23 @12570 has 30 MA's), (42, 12441), (66, 12345), (72, 12276), (73, 12267), (82, 12192), (110, 12054), (123, 11961), (133, 11889), (136, 11874), (139, 11859), (142, 11847), (147, 11829), (153, 11784), (173, 11652), (177, 11613), (187, 11571),

Gene: Genie2_259 Start: 121529, Stop: 120528, Start Num: 22

Candidate Starts for Genie2_259:

(14, 121595), (15, 121586), (Start: 22 @121529 has 85 MA's), (36, 121418), (57, 121331), (88, 121139), (93, 121118), (96, 121109), (103, 121067), (110, 121037), (118, 120998), (121, 120980), (123, 120950), (131, 120887), (156, 120755), (167, 120695), (172, 120647), (174, 120629), (179, 120590),

Gene: Genie2_4 Start: 2628, Stop: 1627, Start Num: 22

Candidate Starts for Genie2_4:

(14, 2694), (15, 2685), (Start: 22 @2628 has 85 MA's), (36, 2517), (57, 2430), (88, 2238), (93, 2217), (96, 2208), (103, 2166), (110, 2136), (118, 2097), (121, 2079), (123, 2049), (131, 1986), (156, 1854), (167, 1794), (172, 1746), (174, 1728), (179, 1689),

Gene: Gibbi_2 Start: 2222, Stop: 1221, Start Num: 22

Candidate Starts for Gibbi_2:

(1, 2366), (6, 2327), (8, 2312), (11, 2297), (14, 2288), (15, 2279), (Start: 22 @2222 has 85 MA's), (36, 2111), (55, 2033), (88, 1832), (91, 1826), (96, 1802), (99, 1790), (110, 1730), (118, 1691), (121, 1673), (123, 1643), (131, 1580), (156, 1448), (167, 1388), (172, 1340), (179, 1283), (190, 1238),

Gene: Gibbi_273 Start: 122322, Stop: 121321, Start Num: 22

Candidate Starts for Gibbi_273:

(1, 122466), (6, 122427), (8, 122412), (11, 122397), (14, 122388), (15, 122379), (Start: 22 @122322 has 85 MA's), (36, 122211), (55, 122133), (88, 121932), (91, 121926), (96, 121902), (99, 121890), (110, 121830), (118, 121791), (121, 121773), (123, 121743), (131, 121680), (156, 121548), (167, 121488), (172, 121440), (179, 121383), (190, 121338),

Gene: Gilson_218 Start: 106326, Stop: 107348, Start Num: 21

Candidate Starts for Gilson_218:

(Start: 21 @106326 has 11 MA's), (24, 106356), (36, 106437), (41, 106455), (47, 106497), (52, 106515), (57, 106533), (86, 106713), (98, 106776), (103, 106809), (106, 106821), (107, 106824), (109, 106836), (122, 106911), (131, 106986), (136, 107010), (137, 107016), (143, 107040), (154, 107103), (188, 107325), (191, 107340),

Gene: Grayson_185 Start: 96345, Stop: 97394, Start Num: 20

Candidate Starts for Grayson_185:

(Start: 20 @96345 has 4 MA's), (26, 96384), (32, 96417), (37, 96462), (44, 96498), (53, 96555), (72, 96693), (83, 96774), (85, 96780), (87, 96786), (92, 96819), (112, 96924), (115, 96936), (122, 96981), (123, 96993), (129, 97047), (133, 97065), (156, 97185), (168, 97263), (184, 97359), (190, 97380),

Gene: HangryHippo_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for HangryHippo_2:

(Start: 3 @2372 has 4 MA's), (Start: 10 @2318 has 4 MA's), (13, 2300), (Start: 22 @2225 has 85 MA's), (36, 2114), (42, 2081), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: HangryHippo_254 Start: 123312, Stop: 122299, Start Num: 22

Candidate Starts for HangryHippo_254:

(Start: 3 @123459 has 4 MA's), (Start: 10 @123405 has 4 MA's), (13, 123387), (Start: 22 @123312 has 85 MA's), (36, 123201), (42, 123168), (47, 123141), (50, 123132), (52, 123111), (56, 123096), (69, 123045), (81, 122934), (93, 122880), (110, 122799), (118, 122760), (121, 122742), (123, 122712), (131, 122649), (149, 122565), (150, 122553), (156, 122520), (167, 122460), (172, 122412), (174, 122394), (179, 122355),

Gene: Hendrix_145 Start: 89503, Stop: 90504, Start Num: 23

Candidate Starts for Hendrix_145:

(Start: 23 @89503 has 30 MA's), (26, 89533), (43, 89635), (60, 89698), (61, 89707), (69, 89761), (80, 89842), (90, 89917), (113, 90040), (146, 90241), (147, 90244), (151, 90274), (159, 90310), (177, 90457),

Gene: IchabodCrane_255 Start: 120757, Stop: 119762, Start Num: 22

Candidate Starts for IchabodCrane_255:

(Start: 17 @120802 has 18 MA's), (Start: 22 @120757 has 85 MA's), (36, 120646), (42, 120613), (50, 120580), (55, 120568), (57, 120559), (69, 120511), (70, 120493), (71, 120490), (93, 120346), (96, 120337), (103, 120295), (110, 120265), (118, 120226), (121, 120208), (123, 120178), (131, 120115), (156, 119983), (167, 119923), (172, 119875), (179, 119818), (188, 119782),

Gene: IchabodCrane_2 Start: 2214, Stop: 1219, Start Num: 22

Candidate Starts for IchabodCrane_2:

(Start: 17 @2259 has 18 MA's), (Start: 22 @2214 has 85 MA's), (36, 2103), (42, 2070), (50, 2037), (55, 2025), (57, 2016), (69, 1968), (70, 1950), (71, 1947), (93, 1803), (96, 1794), (103, 1752), (110, 1722), (118, 1683), (121, 1665), (123, 1635), (131, 1572), (156, 1440), (167, 1380), (172, 1332), (179, 1275), (188, 1239),

Gene: Jada_220 Start: 107002, Stop: 108024, Start Num: 21

Candidate Starts for Jada_220:

(Start: 21 @107002 has 11 MA's), (24, 107032), (36, 107113), (41, 107131), (47, 107173), (52, 107191), (57, 107209), (86, 107389), (98, 107452), (103, 107485), (106, 107497), (107, 107500), (109, 107512), (122, 107587), (131, 107662), (136, 107686), (137, 107692), (143, 107716), (154, 107779), (188, 108001), (191, 108016),

Gene: Jay2Jay_5 Start: 2708, Stop: 1602, Start Num: 10

Candidate Starts for Jay2Jay_5:

(Start: 10 @2708 has 4 MA's), (13, 2690), (18, 2627), (Start: 22 @2615 has 85 MA's), (33, 2534), (36, 2504), (42, 2471), (49, 2438), (52, 2414), (56, 2399), (69, 2348), (93, 2183), (110, 2102), (118, 2063), (121, 2045), (123, 2015), (131, 1952), (135, 1934), (150, 1856), (156, 1823), (172, 1715), (174, 1697), (179, 1658),

Gene: Jay2Jay_260 Start: 124801, Stop: 123695, Start Num: 10

Candidate Starts for Jay2Jay_260:

(Start: 10 @124801 has 4 MA's), (13, 124783), (18, 124720), (Start: 22 @124708 has 85 MA's), (33, 124627), (36, 124597), (42, 124564), (49, 124531), (52, 124507), (56, 124492), (69, 124441), (93, 124276), (110, 124195), (118, 124156), (121, 124138), (123, 124108), (131, 124045), (135, 124027), (150, 123949), (156, 123916), (172, 123808), (174, 123790), (179, 123751),

Gene: JimJam_271 Start: 124187, Stop: 123147, Start Num: 17

Candidate Starts for JimJam_271:

(Start: 17 @124187 has 18 MA's), (Start: 22 @124142 has 85 MA's), (36, 124031), (42, 123998), (50, 123965), (55, 123953), (57, 123944), (69, 123896), (70, 123878), (71, 123875), (93, 123731), (96, 123722), (103, 123680), (110, 123650), (118, 123611), (121, 123593), (123, 123563), (131, 123500), (156, 123368), (167, 123308), (172, 123260), (179, 123203), (188, 123167),

Gene: JimJam_3 Start: 2651, Stop: 1611, Start Num: 17

Candidate Starts for JimJam_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: Jollison_267 Start: 121326, Stop: 120286, Start Num: 17

Candidate Starts for Jollison_267:

(Start: 17 @121326 has 18 MA's), (Start: 22 @121281 has 85 MA's), (36, 121170), (42, 121137), (50, 121104), (55, 121092), (57, 121083), (69, 121035), (70, 121017), (71, 121014), (93, 120870), (96, 120861), (103, 120819), (110, 120789), (118, 120750), (121, 120732), (123, 120702), (131, 120639), (156, 120507), (167, 120447), (172, 120399), (179, 120342), (188, 120306),

Gene: Jollison_3 Start: 2651, Stop: 1611, Start Num: 17

Candidate Starts for Jollison_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: JordanFarm_17 Start: 12296, Stop: 11307, Start Num: 23

Candidate Starts for JordanFarm_17:

(Start: 23 @12296 has 30 MA's), (39, 12182), (42, 12167), (68, 12053), (72, 12014), (73, 12005), (84, 11921), (110, 11792), (123, 11699), (136, 11612), (161, 11492), (170, 11414), (175, 11372), (177, 11354), (183, 11327),

Gene: Karimac_3 Start: 2608, Stop: 1613, Start Num: 22

Candidate Starts for Karimac_3:

(Start: 17 @2653 has 18 MA's), (Start: 22 @2608 has 85 MA's), (36, 2497), (42, 2464), (50, 2431), (55, 2419), (57, 2410), (69, 2362), (70, 2344), (71, 2341), (93, 2197), (96, 2188), (103, 2146), (110, 2116), (118, 2077), (121, 2059), (123, 2029), (131, 1966), (156, 1834), (167, 1774), (172, 1726), (179, 1669), (188, 1633),

Gene: Karimac_261 Start: 121927, Stop: 120932, Start Num: 22

Candidate Starts for Karimac_261:

(Start: 17 @121972 has 18 MA's), (Start: 22 @121927 has 85 MA's), (36, 121816), (42, 121783), (50, 121750), (55, 121738), (57, 121729), (69, 121681), (70, 121663), (71, 121660), (93, 121516), (96, 121507), (103, 121465), (110, 121435), (118, 121396), (121, 121378), (123, 121348), (131, 121285),

(156, 121153), (167, 121093), (172, 121045), (179, 120988), (188, 120952),

Gene: Karp_214 Start: 108408, Stop: 109430, Start Num: 19

Candidate Starts for Karp_214:

(Start: 19 @108408 has 8 MA's), (24, 108438), (36, 108519), (41, 108537), (47, 108579), (52, 108597), (57, 108615), (86, 108795), (98, 108858), (103, 108891), (106, 108903), (107, 108906), (109, 108918), (122, 108993), (131, 109068), (136, 109092), (143, 109122), (154, 109185), (188, 109404),

Gene: Kenrey_224 Start: 107547, Stop: 108569, Start Num: 21

Candidate Starts for Kenrey_224:

(Start: 21 @107547 has 11 MA's), (24, 107577), (36, 107658), (41, 107676), (47, 107718), (57, 107754), (75, 107862), (86, 107934), (98, 107997), (103, 108030), (106, 108042), (107, 108045), (109, 108057), (112, 108075), (122, 108132), (131, 108207), (136, 108231), (143, 108261), (154, 108324), (188, 108546), (191, 108561),

Gene: KentuckyRacer_277 Start: 123669, Stop: 122674, Start Num: 22

Candidate Starts for KentuckyRacer_277:

(Start: 17 @123714 has 18 MA's), (Start: 22 @123669 has 85 MA's), (36, 123558), (42, 123525), (50, 123492), (55, 123480), (57, 123471), (69, 123423), (70, 123405), (71, 123402), (93, 123258), (96, 123249), (103, 123207), (110, 123177), (118, 123138), (121, 123120), (123, 123090), (131, 123027), (156, 122895), (167, 122835), (172, 122787), (179, 122730), (188, 122694),

Gene: KentuckyRacer_3 Start: 2218, Stop: 1223, Start Num: 22

Candidate Starts for KentuckyRacer_3:

(Start: 17 @2263 has 18 MA's), (Start: 22 @2218 has 85 MA's), (36, 2107), (42, 2074), (50, 2041), (55, 2029), (57, 2020), (69, 1972), (70, 1954), (71, 1951), (93, 1807), (96, 1798), (103, 1756), (110, 1726), (118, 1687), (121, 1669), (123, 1639), (131, 1576), (156, 1444), (167, 1384), (172, 1336), (179, 1279), (188, 1243),

Gene: KingKamren_18 Start: 13027, Stop: 12038, Start Num: 23

Candidate Starts for KingKamren_18:

(Start: 23 @13027 has 30 MA's), (26, 12997), (30, 12976), (47, 12871), (67, 12793), (71, 12760), (73, 12736), (76, 12721), (101, 12565), (122, 12442), (159, 12232), (175, 12103), (177, 12085),

Gene: Kozie_54 Start: 37761, Stop: 38762, Start Num: 23

Candidate Starts for Kozie_54:

(16, 37689), (Start: 23 @37761 has 30 MA's), (26, 37791), (29, 37809), (33, 37833), (47, 37917), (72, 38055), (79, 38097), (84, 38148), (98, 38214), (108, 38268), (116, 38307), (130, 38430), (133, 38442), (148, 38517), (151, 38532), (153, 38544), (162, 38586), (178, 38718),

Gene: Larnav_4 Start: 2224, Stop: 1211, Start Num: 22

Candidate Starts for Larnav_4:

(Start: 22 @2224 has 85 MA's), (36, 2113), (47, 2053), (50, 2044), (52, 2023), (56, 2008), (69, 1957), (81, 1846), (93, 1792), (110, 1711), (118, 1672), (121, 1654), (123, 1624), (131, 1561), (149, 1477), (150, 1465), (156, 1432), (167, 1372), (172, 1324), (174, 1306), (179, 1267),

Gene: Larnav_263 Start: 124229, Stop: 123216, Start Num: 22

Candidate Starts for Larnav_263:

(Start: 22 @124229 has 85 MA's), (36, 124118), (47, 124058), (50, 124049), (52, 124028), (56, 124013), (69, 123962), (81, 123851), (93, 123797), (110, 123716), (118, 123677), (121, 123659), (123, 123629), (131, 123566), (149, 123482), (150, 123470), (156, 123437), (167, 123377), (172, 123329), (174, 123311), (179, 123272),

Gene: Leaf_143 Start: 85376, Stop: 86380, Start Num: 23

Candidate Starts for Leaf_143:

(Start: 23 @85376 has 30 MA's), (26, 85406), (40, 85493), (60, 85571), (69, 85634), (79, 85712), (80, 85715), (82, 85754), (90, 85790), (110, 85892), (111, 85898), (113, 85913), (125, 86000), (134, 86060), (146, 86114), (147, 86117), (151, 86147), (159, 86183), (178, 86333),

Gene: Leo04_253 Start: 124342, Stop: 123329, Start Num: 22

Candidate Starts for Leo04_253:

(Start: 3 @124489 has 4 MA's), (Start: 10 @124435 has 4 MA's), (13, 124417), (Start: 22 @124342 has 85 MA's), (36, 124231), (42, 124198), (47, 124171), (50, 124162), (52, 124141), (56, 124126), (69, 124075), (81, 123964), (93, 123910), (110, 123829), (118, 123790), (121, 123772), (123, 123742), (131, 123679), (149, 123595), (150, 123583), (156, 123550), (167, 123490), (172, 123442), (174, 123424), (179, 123385),

Gene: Leo04_2 Start: 2224, Stop: 1211, Start Num: 22

Candidate Starts for Leo04_2:

(Start: 3 @2371 has 4 MA's), (Start: 10 @2317 has 4 MA's), (13, 2299), (Start: 22 @2224 has 85 MA's), (36, 2113), (42, 2080), (47, 2053), (50, 2044), (52, 2023), (56, 2008), (69, 1957), (81, 1846), (93, 1792), (110, 1711), (118, 1672), (121, 1654), (123, 1624), (131, 1561), (149, 1477), (150, 1465), (156, 1432), (167, 1372), (172, 1324), (174, 1306), (179, 1267),

Gene: Liandry_3 Start: 2417, Stop: 1404, Start Num: 22

Candidate Starts for Liandry_3:

(2, 2567), (6, 2531), (Start: 10 @2510 has 4 MA's), (13, 2492), (Start: 22 @2417 has 85 MA's), (33, 2336), (36, 2306), (47, 2246), (52, 2216), (56, 2201), (57, 2198), (69, 2150), (81, 2039), (93, 1985), (102, 1940), (110, 1904), (118, 1865), (121, 1847), (123, 1817), (150, 1658), (156, 1625), (167, 1565), (172, 1517), (174, 1499), (179, 1460),

Gene: Liandry_252 Start: 123938, Stop: 122925, Start Num: 22

Candidate Starts for Liandry_252:

(2, 124088), (6, 124052), (Start: 10 @124031 has 4 MA's), (13, 124013), (Start: 22 @123938 has 85 MA's), (33, 123857), (36, 123827), (47, 123767), (52, 123737), (56, 123722), (57, 123719), (69, 123671), (81, 123560), (93, 123506), (102, 123461), (110, 123425), (118, 123386), (121, 123368), (123, 123338), (150, 123179), (156, 123146), (167, 123086), (172, 123038), (174, 123020), (179, 122981),

Gene: LilMartin_254 Start: 123618, Stop: 122602, Start Num: 22

Candidate Starts for LilMartin_254:

(Start: 22 @123618 has 85 MA's), (36, 123507), (45, 123459), (47, 123447), (49, 123441), (56, 123402), (69, 123348), (81, 123237), (93, 123183), (110, 123102), (118, 123063), (121, 123045), (123, 123015), (131, 122952), (150, 122856), (156, 122823), (167, 122763), (172, 122715), (174, 122697), (179, 122658),

Gene: LilMartin_2 Start: 2274, Stop: 1258, Start Num: 22

Candidate Starts for LilMartin_2:

(Start: 22 @2274 has 85 MA's), (36, 2163), (45, 2115), (47, 2103), (49, 2097), (56, 2058), (69, 2004), (81, 1893), (93, 1839), (110, 1758), (118, 1719), (121, 1701), (123, 1671), (131, 1608), (150, 1512), (156, 1479), (167, 1419), (172, 1371), (174, 1353), (179, 1314),

Gene: Limpid_212 Start: 108722, Stop: 109738, Start Num: 22

Candidate Starts for Limpid_212:

(Start: 22 @108722 has 85 MA's), (24, 108749), (34, 108821), (36, 108836), (44, 108875), (63, 108944), (70, 108989), (98, 109163), (107, 109211), (113, 109247), (115, 109253), (122, 109298),

(131, 109373), (136, 109397), (163, 109532), (176, 109661), (177, 109667), (184, 109700), (188, 109712), (189, 109715),

Gene: LukeCage_2 Start: 2214, Stop: 1213, Start Num: 22

Candidate Starts for LukeCage_2:

(1, 2358), (6, 2319), (8, 2304), (11, 2289), (15, 2271), (Start: 22 @2214 has 85 MA's), (36, 2103), (44, 2064), (45, 2055), (57, 2016), (88, 1824), (96, 1794), (99, 1782), (104, 1746), (110, 1722), (118, 1683), (121, 1665), (123, 1635), (131, 1572), (135, 1554), (141, 1524), (156, 1440), (167, 1380), (172, 1332), (174, 1314),

Gene: LukeCage_265 Start: 123118, Stop: 122117, Start Num: 22

Candidate Starts for LukeCage_265:

(1, 123262), (6, 123223), (8, 123208), (11, 123193), (15, 123175), (Start: 22 @123118 has 85 MA's), (36, 123007), (44, 122968), (45, 122959), (57, 122920), (88, 122728), (96, 122698), (99, 122686), (104, 122650), (110, 122626), (118, 122587), (121, 122569), (123, 122539), (131, 122476), (135, 122458), (141, 122428), (156, 122344), (167, 122284), (172, 122236), (174, 122218),

Gene: Lululemon_252 Start: 123117, Stop: 122104, Start Num: 22

Candidate Starts for Lululemon_252:

(9, 123213), (Start: 22 @123117 has 85 MA's), (36, 123006), (42, 122973), (47, 122946), (50, 122937), (52, 122916), (56, 122901), (69, 122850), (81, 122739), (93, 122685), (110, 122604), (118, 122565), (121, 122547), (123, 122517), (131, 122454), (149, 122370), (150, 122358), (156, 122325), (167, 122265), (172, 122217), (174, 122199), (179, 122160),

Gene: Lululemon_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for Lululemon_2:

(9, 2321), (Start: 22 @2225 has 85 MA's), (36, 2114), (42, 2081), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: Margaery_54 Start: 37699, Stop: 38700, Start Num: 23

Candidate Starts for Margaery_54:

(Start: 23 @37699 has 30 MA's), (29, 37747), (33, 37771), (39, 37813), (64, 37915), (71, 37978), (72, 37993), (78, 38029), (79, 38035), (80, 38038), (84, 38086), (116, 38245), (130, 38368), (133, 38380), (136, 38395), (148, 38455), (151, 38470), (162, 38524), (175, 38635), (186, 38692),

Gene: Matzah_57 Start: 38560, Stop: 39561, Start Num: 23

Candidate Starts for Matzah_57:

(Start: 23 @38560 has 30 MA's), (29, 38608), (33, 38632), (39, 38674), (64, 38776), (68, 38815), (72, 38854), (78, 38890), (79, 38896), (80, 38899), (84, 38947), (116, 39106), (130, 39229), (133, 39241), (136, 39256), (148, 39316), (151, 39331), (162, 39385), (175, 39496),

Gene: Mazun_18 Start: 12571, Stop: 11567, Start Num: 23

Candidate Starts for Mazun_18:

(Start: 23 @12571 has 30 MA's), (42, 12442), (66, 12346), (72, 12277), (73, 12268), (82, 12193), (110, 12055), (123, 11962), (133, 11890), (136, 11875), (139, 11860), (147, 11830), (153, 11785), (173, 11653), (177, 11614), (187, 11572),

Gene: Megan_56 Start: 41734, Stop: 42738, Start Num: 23

Candidate Starts for Megan_56:

(Start: 23 @41734 has 30 MA's), (26, 41764), (27, 41773), (29, 41782), (33, 41806), (38, 41845), (39, 41848), (64, 41950), (77, 42058), (80, 42076), (84, 42124), (98, 42190), (110, 42253), (113, 42274), (114, 42277), (120, 42313), (122, 42334), (133, 42418), (136, 42433), (140, 42454), (148, 42493),

(151, 42508), (157, 42541), (158, 42544), (162, 42562), (166, 42601), (170, 42631), (181, 42709),

Gene: MeganTheeKilla_223 Start: 107197, Stop: 108219, Start Num: 21

Candidate Starts for MeganTheeKilla_223:

(Start: 21 @107197 has 11 MA's), (24, 107227), (36, 107308), (41, 107326), (47, 107368), (57, 107404), (86, 107584), (98, 107647), (103, 107680), (106, 107692), (107, 107695), (109, 107707), (122, 107782), (131, 107857), (136, 107881), (143, 107911), (154, 107974), (188, 108196),

Gene: MementoMori_56 Start: 38139, Stop: 39140, Start Num: 23

Candidate Starts for MementoMori_56:

(Start: 23 @38139 has 30 MA's), (29, 38187), (33, 38211), (39, 38253), (47, 38295), (64, 38355), (68, 38394), (71, 38418), (72, 38433), (78, 38469), (79, 38475), (80, 38478), (84, 38526), (116, 38685), (130, 38808), (133, 38820), (136, 38835), (148, 38895), (151, 38910), (162, 38964),

Gene: Mildred21_3 Start: 2462, Stop: 1440, Start Num: 22

Candidate Starts for Mildred21_3:

(Start: 22 @2462 has 85 MA's), (36, 2351), (45, 2303), (47, 2291), (49, 2285), (56, 2246), (69, 2192), (81, 2081), (93, 2027), (102, 1982), (108, 1955), (121, 1889), (123, 1859), (131, 1796), (150, 1700), (156, 1667), (172, 1559),

Gene: Mildred21_266 Start: 123620, Stop: 122598, Start Num: 22

Candidate Starts for Mildred21_266:

(Start: 22 @123620 has 85 MA's), (36, 123509), (45, 123461), (47, 123449), (49, 123443), (56, 123404), (69, 123350), (81, 123239), (93, 123185), (102, 123140), (108, 123113), (121, 123047), (123, 123017), (131, 122954), (150, 122858), (156, 122825), (172, 122717),

Gene: Mimi_181 Start: 115674, Stop: 116648, Start Num: 21

Candidate Starts for Mimi_181:

(Start: 21 @115674 has 11 MA's), (25, 115716), (83, 116055), (98, 116118), (105, 116160), (117, 116214), (127, 116292), (156, 116436), (164, 116463), (165, 116469), (182, 116607),

Gene: MindFlayer_2 Start: 2261, Stop: 1221, Start Num: 17

Candidate Starts for MindFlayer_2:

(Start: 17 @2261 has 18 MA's), (Start: 22 @2216 has 85 MA's), (36, 2105), (42, 2072), (50, 2039), (55, 2027), (57, 2018), (69, 1970), (70, 1952), (71, 1949), (93, 1805), (96, 1796), (103, 1754), (110, 1724), (118, 1685), (121, 1667), (123, 1637), (131, 1574), (156, 1442), (167, 1382), (172, 1334), (179, 1277), (188, 1241),

Gene: MindFlayer_254 Start: 120321, Stop: 119281, Start Num: 17

Candidate Starts for MindFlayer_254:

(Start: 17 @120321 has 18 MA's), (Start: 22 @120276 has 85 MA's), (36, 120165), (42, 120132), (50, 120099), (55, 120087), (57, 120078), (69, 120030), (70, 120012), (71, 120009), (93, 119865), (96, 119856), (103, 119814), (110, 119784), (118, 119745), (121, 119727), (123, 119697), (131, 119634), (156, 119502), (167, 119442), (172, 119394), (179, 119337), (188, 119301),

Gene: Moab_220 Start: 109307, Stop: 110329, Start Num: 19

Candidate Starts for Moab_220:

(Start: 19 @109307 has 8 MA's), (24, 109337), (32, 109379), (36, 109418), (41, 109436), (47, 109478), (52, 109496), (57, 109514), (86, 109694), (89, 109712), (98, 109757), (103, 109790), (104, 109796), (106, 109802), (122, 109892), (131, 109967), (136, 109991), (143, 110021), (154, 110084), (188, 110303),

Gene: Moleficent_18 Start: 12566, Stop: 11562, Start Num: 23

Candidate Starts for Moleficient_18:

(Start: 23 @12566 has 30 MA's), (42, 12437), (66, 12341), (72, 12272), (73, 12263), (82, 12188), (110, 12050), (123, 11957), (133, 11885), (136, 11870), (139, 11855), (142, 11843), (147, 11825), (153, 11780), (173, 11648), (177, 11609), (187, 11567),

Gene: Morrill_17 Start: 12308, Stop: 11304, Start Num: 23

Candidate Starts for Morrill_17:

(Start: 23 @12308 has 30 MA's), (42, 12179), (66, 12083), (72, 12014), (73, 12005), (84, 11921), (110, 11792), (123, 11699), (133, 11627), (136, 11612), (139, 11597), (147, 11567), (153, 11522), (173, 11390), (177, 11351), (187, 11309),

Gene: Mugiwara_274 Start: 123730, Stop: 122585, Start Num: 1

Candidate Starts for Mugiwara_274:

(1, 123730), (6, 123691), (8, 123676), (11, 123661), (15, 123643), (Start: 22 @123586 has 85 MA's), (36, 123475), (55, 123397), (57, 123388), (69, 123340), (70, 123322), (88, 123196), (91, 123190), (96, 123166), (99, 123154), (103, 123124), (110, 123094), (118, 123055), (121, 123037), (123, 123007), (131, 122944), (156, 122812), (167, 122752), (172, 122704), (179, 122647), (190, 122602),

Gene: Mugiwara_2 Start: 2345, Stop: 1200, Start Num: 1

Candidate Starts for Mugiwara_2:

(1, 2345), (6, 2306), (8, 2291), (11, 2276), (15, 2258), (Start: 22 @2201 has 85 MA's), (36, 2090), (55, 2012), (57, 2003), (69, 1955), (70, 1937), (88, 1811), (91, 1805), (96, 1781), (99, 1769), (103, 1739), (110, 1709), (118, 1670), (121, 1652), (123, 1622), (131, 1559), (156, 1427), (167, 1367), (172, 1319), (179, 1262), (190, 1217),

Gene: MulchMansion_258 Start: 125252, Stop: 124236, Start Num: 22

Candidate Starts for MulchMansion_258:

(Start: 22 @125252 has 85 MA's), (36, 125141), (45, 125093), (47, 125081), (49, 125075), (56, 125036), (69, 124982), (81, 124871), (93, 124817), (110, 124736), (118, 124697), (121, 124679), (123, 124649), (131, 124586), (150, 124490), (156, 124457), (167, 124397), (172, 124349), (174, 124331), (179, 124292),

Gene: MulchMansion_2 Start: 2274, Stop: 1258, Start Num: 22

Candidate Starts for MulchMansion_2:

(Start: 22 @2274 has 85 MA's), (36, 2163), (45, 2115), (47, 2103), (49, 2097), (56, 2058), (69, 2004), (81, 1893), (93, 1839), (110, 1758), (118, 1719), (121, 1701), (123, 1671), (131, 1608), (150, 1512), (156, 1479), (167, 1419), (172, 1371), (174, 1353), (179, 1314),

Gene: NiceHouse_208 Start: 114434, Stop: 115474, Start Num: 22

Candidate Starts for NiceHouse_208:

(Start: 22 @114434 has 85 MA's), (33, 114512), (34, 114527), (37, 114545), (46, 114599), (47, 114602), (53, 114638), (67, 114719), (71, 114752), (75, 114785), (93, 114896), (97, 114911), (98, 114914), (110, 114977), (112, 114992), (115, 115004), (122, 115049), (142, 115175), (156, 115259), (166, 115316), (171, 115355), (174, 115376), (184, 115439),

Gene: Nicole72_57 Start: 42240, Stop: 43244, Start Num: 23

Candidate Starts for Nicole72_57:

(Start: 23 @42240 has 30 MA's), (26, 42270), (29, 42288), (33, 42312), (64, 42456), (73, 42543), (79, 42579), (84, 42630), (95, 42684), (98, 42696), (110, 42759), (113, 42780), (120, 42819), (122, 42840), (133, 42924), (136, 42939), (148, 42999), (151, 43014), (160, 43056), (170, 43137), (175, 43179), (178, 43200), (183, 43224),

Gene: NootNoot_3 Start: 2427, Stop: 1414, Start Num: 22

Candidate Starts for NootNoot_3:

(2, 2577), (6, 2541), (Start: 10 @2520 has 4 MA's), (13, 2502), (Start: 22 @2427 has 85 MA's), (33, 2346), (36, 2316), (47, 2256), (52, 2226), (56, 2211), (57, 2208), (69, 2160), (81, 2049), (93, 1995), (102, 1950), (110, 1914), (118, 1875), (121, 1857), (123, 1827), (150, 1668), (156, 1635), (167, 1575), (172, 1527), (174, 1509), (179, 1470),

Gene: NootNoot_248 Start: 122726, Stop: 121713, Start Num: 22

Candidate Starts for NootNoot_248:

(2, 122876), (6, 122840), (Start: 10 @122819 has 4 MA's), (13, 122801), (Start: 22 @122726 has 85 MA's), (33, 122645), (36, 122615), (47, 122555), (52, 122525), (56, 122510), (57, 122507), (69, 122459), (81, 122348), (93, 122294), (102, 122249), (110, 122213), (118, 122174), (121, 122156), (123, 122126), (150, 121967), (156, 121934), (167, 121874), (172, 121826), (174, 121808), (179, 121769),

Gene: PacManQ_253 Start: 123117, Stop: 122104, Start Num: 22

Candidate Starts for PacManQ_253:

(9, 123213), (Start: 22 @123117 has 85 MA's), (36, 123006), (42, 122973), (47, 122946), (50, 122937), (52, 122916), (56, 122901), (69, 122850), (81, 122739), (93, 122685), (110, 122604), (118, 122565), (121, 122547), (123, 122517), (131, 122454), (149, 122370), (150, 122358), (156, 122325), (167, 122265), (172, 122217), (174, 122199), (179, 122160),

Gene: PacManQ_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for PacManQ_2:

(9, 2321), (Start: 22 @2225 has 85 MA's), (36, 2114), (42, 2081), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: Paradiddles_3 Start: 2417, Stop: 1404, Start Num: 22

Candidate Starts for Paradiddles_3:

(2, 2567), (6, 2531), (Start: 10 @2510 has 4 MA's), (13, 2492), (Start: 22 @2417 has 85 MA's), (33, 2336), (36, 2306), (47, 2246), (52, 2216), (56, 2201), (57, 2198), (69, 2150), (81, 2039), (93, 1985), (102, 1940), (110, 1904), (118, 1865), (121, 1847), (123, 1817), (150, 1658), (156, 1625), (167, 1565), (172, 1517), (174, 1499), (179, 1460),

Gene: Paradiddles_244 Start: 125125, Stop: 124112, Start Num: 22

Candidate Starts for Paradiddles_244:

(2, 125275), (6, 125239), (Start: 10 @125218 has 4 MA's), (13, 125200), (Start: 22 @125125 has 85 MA's), (33, 125044), (36, 125014), (47, 124954), (52, 124924), (56, 124909), (57, 124906), (69, 124858), (81, 124747), (93, 124693), (102, 124648), (110, 124612), (118, 124573), (121, 124555), (123, 124525), (150, 124366), (156, 124333), (167, 124273), (172, 124225), (174, 124207), (179, 124168),

Gene: Patbob_174 Start: 116230, Stop: 117204, Start Num: 21

Candidate Starts for Patbob_174:

(Start: 21 @116230 has 11 MA's), (25, 116272), (83, 116611), (98, 116674), (105, 116716), (117, 116770), (127, 116848), (128, 116863), (156, 116992), (164, 117019), (165, 117025), (182, 117163),

Gene: Patelgo_221 Start: 109737, Stop: 110759, Start Num: 19

Candidate Starts for Patelgo_221:

(Start: 19 @109737 has 8 MA's), (24, 109767), (36, 109848), (41, 109866), (47, 109908), (52, 109926), (57, 109944), (86, 110124), (89, 110142), (98, 110187), (103, 110220), (104, 110226), (106, 110232), (122, 110322), (131, 110397), (136, 110421), (143, 110451), (154, 110514), (188, 110733),

Gene: Peebs_2 Start: 2371, Stop: 1211, Start Num: 3

Candidate Starts for Peebs_2:

(Start: 3 @2371 has 4 MA's), (Start: 10 @2317 has 4 MA's), (13, 2299), (Start: 22 @2224 has 85 MA's), (36, 2113), (47, 2053), (50, 2044), (52, 2023), (56, 2008), (69, 1957), (81, 1846), (93, 1792), (110, 1711), (121, 1654), (123, 1624), (131, 1561), (149, 1477), (150, 1465), (156, 1432), (167, 1372), (172, 1324), (174, 1306), (179, 1267),

Gene: Peebs_249 Start: 124346, Stop: 123186, Start Num: 3

Candidate Starts for Peebs_249:

(Start: 3 @124346 has 4 MA's), (Start: 10 @124292 has 4 MA's), (13, 124274), (Start: 22 @124199 has 85 MA's), (36, 124088), (47, 124028), (50, 124019), (52, 123998), (56, 123983), (69, 123932), (81, 123821), (93, 123767), (110, 123686), (121, 123629), (123, 123599), (131, 123536), (149, 123452), (150, 123440), (156, 123407), (167, 123347), (172, 123299), (174, 123281), (179, 123242),

Gene: Pepperwood_252 Start: 124164, Stop: 123151, Start Num: 22

Candidate Starts for Pepperwood_252:

(Start: 3 @124311 has 4 MA's), (Start: 10 @124257 has 4 MA's), (13, 124239), (Start: 22 @124164 has 85 MA's), (36, 124053), (47, 123993), (50, 123984), (52, 123963), (56, 123948), (69, 123897), (81, 123786), (93, 123732), (110, 123651), (118, 123612), (121, 123594), (123, 123564), (131, 123501), (149, 123417), (150, 123405), (156, 123372), (167, 123312), (172, 123264), (174, 123246), (179, 123207),

Gene: Pepperwood_3 Start: 2379, Stop: 1366, Start Num: 22

Candidate Starts for Pepperwood_3:

(Start: 3 @2526 has 4 MA's), (Start: 10 @2472 has 4 MA's), (13, 2454), (Start: 22 @2379 has 85 MA's), (36, 2268), (47, 2208), (50, 2199), (52, 2178), (56, 2163), (69, 2112), (81, 2001), (93, 1947), (110, 1866), (118, 1827), (121, 1809), (123, 1779), (131, 1716), (149, 1632), (150, 1620), (156, 1587), (167, 1527), (172, 1479), (174, 1461), (179, 1422),

Gene: Peregrin_181 Start: 95378, Stop: 96424, Start Num: 20

Candidate Starts for Peregrin_181:

(Start: 20 @95378 has 4 MA's), (26, 95417), (32, 95450), (37, 95495), (38, 95501), (44, 95531), (53, 95588), (72, 95726), (83, 95807), (85, 95813), (87, 95819), (92, 95852), (97, 95876), (115, 95969), (122, 96014), (123, 96026), (133, 96098), (154, 96203), (156, 96215), (168, 96293), (184, 96389), (190, 96410),

Gene: Persimmon_253 Start: 123026, Stop: 122013, Start Num: 22

Candidate Starts for Persimmon_253:

(2, 123176), (6, 123140), (Start: 10 @123119 has 4 MA's), (13, 123101), (Start: 22 @123026 has 85 MA's), (33, 122945), (36, 122915), (47, 122855), (52, 122825), (56, 122810), (57, 122807), (69, 122759), (81, 122648), (93, 122594), (102, 122549), (110, 122513), (118, 122474), (121, 122456), (123, 122426), (150, 122267), (156, 122234), (167, 122174), (172, 122126), (174, 122108), (179, 122069),

Gene: Persimmon_2 Start: 2215, Stop: 1202, Start Num: 22

Candidate Starts for Persimmon_2:

(2, 2365), (6, 2329), (Start: 10 @2308 has 4 MA's), (13, 2290), (Start: 22 @2215 has 85 MA's), (33, 2134), (36, 2104), (47, 2044), (52, 2014), (56, 1999), (57, 1996), (69, 1948), (81, 1837), (93, 1783), (102, 1738), (110, 1702), (118, 1663), (121, 1645), (123, 1615), (150, 1456), (156, 1423), (167, 1363), (172, 1315), (174, 1297), (179, 1258),

Gene: Pharky_18 Start: 12530, Stop: 11526, Start Num: 23

Candidate Starts for Pharky_18:

(Start: 23 @12530 has 30 MA's), (42, 12401), (66, 12305), (72, 12236), (73, 12227), (82, 12152), (110, 12014), (123, 11921), (133, 11849), (136, 11834), (139, 11819), (142, 11807), (147, 11789), (153, 11744), (173, 11612), (177, 11573), (187, 11531),

Gene: Phedro_18 Start: 12530, Stop: 11526, Start Num: 23

Candidate Starts for Phedro_18:

(Start: 23 @12530 has 30 MA's), (42, 12401), (66, 12305), (72, 12236), (73, 12227), (82, 12152), (110, 12014), (123, 11921), (133, 11849), (136, 11834), (139, 11819), (142, 11807), (147, 11789), (153, 11744), (173, 11612), (177, 11573), (187, 11531),

Gene: Phractured_18 Start: 12530, Stop: 11526, Start Num: 23

Candidate Starts for Phractured_18:

(Start: 23 @12530 has 30 MA's), (42, 12401), (66, 12305), (72, 12236), (73, 12227), (82, 12152), (110, 12014), (123, 11921), (133, 11849), (136, 11834), (139, 11819), (142, 11807), (147, 11789), (153, 11744), (173, 11612), (177, 11573), (187, 11531),

Gene: Phredrick_223 Start: 106600, Stop: 107622, Start Num: 21

Candidate Starts for Phredrick_223:

(Start: 21 @106600 has 11 MA's), (24, 106630), (36, 106711), (41, 106729), (47, 106771), (57, 106807), (86, 106987), (98, 107050), (103, 107083), (106, 107095), (107, 107098), (109, 107110), (112, 107128), (122, 107185), (131, 107260), (136, 107284), (143, 107314), (154, 107377), (188, 107599), (191, 107614),

Gene: PhriedRice_18 Start: 12541, Stop: 11537, Start Num: 23

Candidate Starts for PhriedRice_18:

(Start: 23 @12541 has 30 MA's), (42, 12412), (66, 12316), (72, 12247), (73, 12238), (82, 12163), (110, 12025), (123, 11932), (133, 11860), (136, 11845), (139, 11830), (142, 11818), (147, 11800), (153, 11755), (173, 11623), (177, 11584), (187, 11542),

Gene: PinkiePie_3 Start: 2417, Stop: 1404, Start Num: 22

Candidate Starts for PinkiePie_3:

(2, 2567), (6, 2531), (Start: 10 @2510 has 4 MA's), (13, 2492), (Start: 22 @2417 has 85 MA's), (33, 2336), (36, 2306), (47, 2246), (52, 2216), (56, 2201), (57, 2198), (69, 2150), (81, 2039), (93, 1985), (102, 1940), (110, 1904), (118, 1865), (121, 1847), (123, 1817), (150, 1658), (156, 1625), (167, 1565), (172, 1517), (174, 1499), (179, 1460),

Gene: PinkiePie_253 Start: 123938, Stop: 122925, Start Num: 22

Candidate Starts for PinkiePie_253:

(2, 124088), (6, 124052), (Start: 10 @124031 has 4 MA's), (13, 124013), (Start: 22 @123938 has 85 MA's), (33, 123857), (36, 123827), (47, 123767), (52, 123737), (56, 123722), (57, 123719), (69, 123671), (81, 123560), (93, 123506), (102, 123461), (110, 123425), (118, 123386), (121, 123368), (123, 123338), (150, 123179), (156, 123146), (167, 123086), (172, 123038), (174, 123020), (179, 122981),

Gene: PumpkinSpice_3 Start: 2651, Stop: 1611, Start Num: 17

Candidate Starts for PumpkinSpice_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: PumpkinSpice_267 Start: 122543, Stop: 121503, Start Num: 17

Candidate Starts for PumpkinSpice_267:

(Start: 17 @122543 has 18 MA's), (Start: 22 @122498 has 85 MA's), (36, 122387), (42, 122354), (50, 122321), (55, 122309), (57, 122300), (69, 122252), (70, 122234), (71, 122231), (93, 122087), (96, 122078), (103, 122036), (110, 122006), (118, 121967), (121, 121949), (123, 121919), (131, 121856), (156, 121724), (167, 121664), (172, 121616), (179, 121559), (188, 121523),

Gene: Quaran19_264 Start: 121833, Stop: 120793, Start Num: 17

Candidate Starts for Quaran19_264:

(Start: 17 @121833 has 18 MA's), (Start: 22 @121788 has 85 MA's), (36, 121677), (42, 121644), (50, 121611), (55, 121599), (57, 121590), (69, 121542), (70, 121524), (71, 121521), (93, 121377), (96, 121368), (103, 121326), (110, 121296), (118, 121257), (121, 121239), (123, 121209), (131, 121146), (156, 121014), (167, 120954), (172, 120906), (179, 120849), (188, 120813),

Gene: Quaran19_3 Start: 2651, Stop: 1611, Start Num: 17

Candidate Starts for Quaran19_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: Racecar_176 Start: 116640, Stop: 117614, Start Num: 21

Candidate Starts for Racecar_176:

(Start: 21 @116640 has 11 MA's), (25, 116682), (83, 117021), (98, 117084), (105, 117126), (117, 117180), (127, 117258), (156, 117402), (164, 117429), (165, 117435), (182, 117573),

Gene: Rasputia_140 Start: 86821, Stop: 87828, Start Num: 23

Candidate Starts for Rasputia_140:

(4, 86671), (5, 86674), (Start: 23 @86821 has 30 MA's), (26, 86851), (38, 86932), (40, 86938), (69, 87082), (80, 87163), (89, 87235), (110, 87340), (113, 87361), (132, 87502), (134, 87508), (147, 87565), (159, 87631), (178, 87781),

Gene: RicoCaldo_18 Start: 12562, Stop: 11558, Start Num: 23

Candidate Starts for RicoCaldo_18:

(Start: 23 @12562 has 30 MA's), (42, 12433), (66, 12337), (72, 12268), (73, 12259), (82, 12184), (110, 12046), (123, 11953), (133, 11881), (136, 11866), (139, 11851), (142, 11839), (147, 11821), (153, 11776), (173, 11644), (177, 11605), (187, 11563),

Gene: SaltySpitooon_3 Start: 2606, Stop: 1611, Start Num: 22

Candidate Starts for SaltySpitooon_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: SaltySpitooon_263 Start: 120870, Stop: 119875, Start Num: 22

Candidate Starts for SaltySpitooon_263:

(Start: 17 @120915 has 18 MA's), (Start: 22 @120870 has 85 MA's), (36, 120759), (42, 120726), (50, 120693), (55, 120681), (57, 120672), (69, 120624), (70, 120606), (71, 120603), (93, 120459), (96, 120450), (103, 120408), (110, 120378), (118, 120339), (121, 120321), (123, 120291), (131, 120228), (156, 120096), (167, 120036), (172, 119988), (179, 119931), (188, 119895),

Gene: Samisti12_253 Start: 125267, Stop: 124254, Start Num: 22

Candidate Starts for Samisti12_253:

(Start: 22 @125267 has 85 MA's), (36, 125156), (47, 125096), (50, 125087), (52, 125066), (56, 125051), (69, 125000), (81, 124889), (93, 124835), (110, 124754), (118, 124715), (121, 124697), (123, 124667), (131, 124604), (149, 124520), (150, 124508), (156, 124475), (167, 124415), (172, 124367), (174, 124349), (179, 124310),

Gene: Samisti12_2 Start: 2223, Stop: 1210, Start Num: 22

Candidate Starts for Samisti12_2:

(Start: 22 @2223 has 85 MA's), (36, 2112), (47, 2052), (50, 2043), (52, 2022), (56, 2007), (69, 1956), (81, 1845), (93, 1791), (110, 1710), (118, 1671), (121, 1653), (123, 1623), (131, 1560), (149, 1476), (150, 1464), (156, 1431), (167, 1371), (172, 1323), (174, 1305), (179, 1266),

Gene: SeresaTree_219 Start: 108748, Stop: 109758, Start Num: 21

Candidate Starts for SeresaTree_219:

(Start: 21 @108748 has 11 MA's), (24, 108778), (33, 108829), (36, 108859), (44, 108898), (63, 108967), (112, 109264), (125, 109348), (131, 109396), (136, 109420), (137, 109426), (152, 109504), (159, 109531), (177, 109690), (184, 109723), (185, 109726), (189, 109738),

Gene: Sham_210 Start: 109632, Stop: 110651, Start Num: 21

Candidate Starts for Sham_210:

(Start: 21 @109632 has 11 MA's), (24, 109662), (36, 109749), (44, 109788), (54, 109827), (63, 109860), (98, 110079), (107, 110127), (113, 110163), (115, 110169), (131, 110289), (136, 110313), (137, 110319), (138, 110322), (156, 110418), (163, 110448), (176, 110577), (184, 110616), (185, 110619), (189, 110631),

Gene: Sollertia_260 Start: 121518, Stop: 120517, Start Num: 22

Candidate Starts for Sollertia_260:

(14, 121584), (15, 121575), (Start: 22 @121518 has 85 MA's), (36, 121407), (57, 121320), (88, 121128), (93, 121107), (96, 121098), (103, 121056), (110, 121026), (118, 120987), (121, 120969), (123, 120939), (131, 120876), (156, 120744), (167, 120684), (172, 120636), (174, 120618), (179, 120579),

Gene: Sollertia_4 Start: 2628, Stop: 1627, Start Num: 22

Candidate Starts for Sollertia_4:

(14, 2694), (15, 2685), (Start: 22 @2628 has 85 MA's), (36, 2517), (57, 2430), (88, 2238), (93, 2217), (96, 2208), (103, 2166), (110, 2136), (118, 2097), (121, 2079), (123, 2049), (131, 1986), (156, 1854), (167, 1794), (172, 1746), (174, 1728), (179, 1689),

Gene: SparkleGoddess_218 Start: 108469, Stop: 109491, Start Num: 19

Candidate Starts for SparkleGoddess_218:

(Start: 19 @108469 has 8 MA's), (24, 108499), (36, 108580), (41, 108598), (47, 108640), (52, 108658), (57, 108676), (86, 108856), (98, 108919), (103, 108952), (106, 108964), (107, 108967), (109, 108979), (122, 109054), (131, 109129), (136, 109153), (143, 109183), (154, 109246), (188, 109465),

Gene: Spelly_269 Start: 121455, Stop: 120415, Start Num: 17

Candidate Starts for Spelly_269:

(Start: 17 @121455 has 18 MA's), (Start: 22 @121410 has 85 MA's), (36, 121299), (42, 121266), (50, 121233), (55, 121221), (57, 121212), (69, 121164), (70, 121146), (71, 121143), (93, 120999), (96, 120990), (103, 120948), (110, 120918), (118, 120879), (121, 120861), (123, 120831), (131, 120768), (156, 120636), (167, 120576), (172, 120528), (179, 120471), (188, 120435),

Gene: Spelly_3 Start: 2651, Stop: 1611, Start Num: 17

Candidate Starts for Spelly_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: Spilled_2 Start: 2261, Stop: 1221, Start Num: 17

Candidate Starts for Spilled_2:

(Start: 17 @2261 has 18 MA's), (Start: 22 @2216 has 85 MA's), (36, 2105), (42, 2072), (50, 2039), (55, 2027), (57, 2018), (69, 1970), (70, 1952), (71, 1949), (93, 1805), (96, 1796), (103, 1754), (110, 1724), (118, 1685), (121, 1667), (123, 1637), (131, 1574), (156, 1442), (167, 1382), (172, 1334), (179, 1277), (188, 1241),

Gene: Spilled_270 Start: 122730, Stop: 121690, Start Num: 17

Candidate Starts for Spilled_270:

(Start: 17 @122730 has 18 MA's), (Start: 22 @122685 has 85 MA's), (36, 122574), (42, 122541), (50, 122508), (55, 122496), (57, 122487), (69, 122439), (70, 122421), (71, 122418), (93, 122274), (96, 122265), (103, 122223), (110, 122193), (118, 122154), (121, 122136), (123, 122106), (131, 122043), (156, 121911), (167, 121851), (172, 121803), (179, 121746), (188, 121710),

Gene: Squillium_3 Start: 2417, Stop: 1404, Start Num: 22

Candidate Starts for Squillium_3:

(2, 2567), (6, 2531), (Start: 10 @2510 has 4 MA's), (13, 2492), (Start: 22 @2417 has 85 MA's), (33, 2336), (36, 2306), (47, 2246), (52, 2216), (56, 2201), (57, 2198), (69, 2150), (81, 2039), (93, 1985), (102, 1940), (110, 1904), (118, 1865), (121, 1847), (123, 1817), (150, 1658), (156, 1625), (167, 1565), (172, 1517), (174, 1499), (179, 1460),

Gene: Squillium_255 Start: 123941, Stop: 122928, Start Num: 22

Candidate Starts for Squillium_255:

(2, 124091), (6, 124055), (Start: 10 @124034 has 4 MA's), (13, 124016), (Start: 22 @123941 has 85 MA's), (33, 123860), (36, 123830), (47, 123770), (52, 123740), (56, 123725), (57, 123722), (69, 123674), (81, 123563), (93, 123509), (102, 123464), (110, 123428), (118, 123389), (121, 123371), (123, 123341), (150, 123182), (156, 123149), (167, 123089), (172, 123041), (174, 123023), (179, 122984),

Gene: StagePhright_18 Start: 12530, Stop: 11526, Start Num: 23

Candidate Starts for StagePhright_18:

(Start: 23 @12530 has 30 MA's), (42, 12401), (66, 12305), (72, 12236), (73, 12227), (82, 12152), (110, 12014), (123, 11921), (133, 11849), (136, 11834), (139, 11819), (142, 11807), (147, 11789), (153, 11744), (173, 11612), (177, 11573), (187, 11531),

Gene: Stanimal_259 Start: 121902, Stop: 120901, Start Num: 22

Candidate Starts for Stanimal_259:

(14, 121968), (15, 121959), (Start: 22 @121902 has 85 MA's), (36, 121791), (57, 121704), (88, 121512), (93, 121491), (96, 121482), (103, 121440), (110, 121410), (118, 121371), (121, 121353), (123, 121323), (131, 121260), (156, 121128), (167, 121068), (172, 121020), (174, 121002), (179, 120963),

Gene: Stanimal_4 Start: 2628, Stop: 1627, Start Num: 22

Candidate Starts for Stanimal_4:

(14, 2694), (15, 2685), (Start: 22 @2628 has 85 MA's), (36, 2517), (57, 2430), (88, 2238), (93, 2217), (96, 2208), (103, 2166), (110, 2136), (118, 2097), (121, 2079), (123, 2049), (131, 1986), (156, 1854), (167, 1794), (172, 1746), (174, 1728), (179, 1689),

Gene: StarPlatinum_2 Start: 2355, Stop: 1354, Start Num: 22

Candidate Starts for StarPlatinum_2:

(1, 2499), (6, 2460), (8, 2445), (11, 2430), (15, 2412), (Start: 22 @2355 has 85 MA's), (36, 2244), (57, 2157), (88, 1965), (91, 1959), (96, 1935), (99, 1923), (103, 1893), (110, 1863), (118, 1824), (121, 1806), (123, 1776), (131, 1713), (135, 1695), (141, 1665), (156, 1581), (167, 1521), (172, 1473), (174, 1455),

Gene: StarPlatinum_272 Start: 124042, Stop: 123041, Start Num: 22

Candidate Starts for StarPlatinum_272:

(1, 124186), (6, 124147), (8, 124132), (11, 124117), (15, 124099), (Start: 22 @124042 has 85 MA's), (36, 123931), (57, 123844), (88, 123652), (91, 123646), (96, 123622), (99, 123610), (103, 123580), (110, 123550), (118, 123511), (121, 123493), (123, 123463), (131, 123400), (135, 123382), (141, 123352), (156, 123268), (167, 123208), (172, 123160), (174, 123142),

Gene: Starbow_3 Start: 2606, Stop: 1611, Start Num: 22

Candidate Starts for Starbow_3:

(Start: 17 @2651 has 18 MA's), (Start: 22 @2606 has 85 MA's), (36, 2495), (42, 2462), (50, 2429), (55, 2417), (57, 2408), (69, 2360), (70, 2342), (71, 2339), (93, 2195), (96, 2186), (103, 2144), (110, 2114), (118, 2075), (121, 2057), (123, 2027), (131, 1964), (156, 1832), (167, 1772), (172, 1724), (179, 1667), (188, 1631),

Gene: Starbow_260 Start: 121454, Stop: 120459, Start Num: 22

Candidate Starts for Starbow_260:

(Start: 17 @121499 has 18 MA's), (Start: 22 @121454 has 85 MA's), (36, 121343), (42, 121310), (50, 121277), (55, 121265), (57, 121256), (69, 121208), (70, 121190), (71, 121187), (93, 121043), (96, 121034), (103, 120992), (110, 120962), (118, 120923), (121, 120905), (123, 120875), (131, 120812), (156, 120680), (167, 120620), (172, 120572), (179, 120515), (188, 120479),

Gene: Stigma_217 Start: 108675, Stop: 109697, Start Num: 19

Candidate Starts for Stigma_217:

(Start: 19 @108675 has 8 MA's), (24, 108705), (36, 108786), (41, 108804), (47, 108846), (52, 108864), (57, 108882), (86, 109062), (98, 109125), (103, 109158), (106, 109170), (107, 109173), (109, 109185), (122, 109260), (131, 109335), (136, 109359), (143, 109389), (154, 109452), (188, 109671),

Gene: Sushi23_253 Start: 125067, Stop: 124054, Start Num: 22

Candidate Starts for Sushi23_253:

(Start: 22 @125067 has 85 MA's), (36, 124956), (47, 124896), (50, 124887), (52, 124866), (56, 124851), (69, 124800), (81, 124689), (93, 124635), (110, 124554), (118, 124515), (121, 124497), (123, 124467), (131, 124404), (149, 124320), (150, 124308), (156, 124275), (167, 124215), (172, 124167), (174, 124149), (179, 124110),

Gene: Sushi23_2 Start: 2224, Stop: 1211, Start Num: 22

Candidate Starts for Sushi23_2:

(Start: 22 @2224 has 85 MA's), (36, 2113), (47, 2053), (50, 2044), (52, 2023), (56, 2008), (69, 1957), (81, 1846), (93, 1792), (110, 1711), (118, 1672), (121, 1654), (123, 1624), (131, 1561), (149, 1477), (150, 1465), (156, 1432), (167, 1372), (172, 1324), (174, 1306), (179, 1267),

Gene: Talia1610_178 Start: 116051, Stop: 117025, Start Num: 21

Candidate Starts for Talia1610_178:

(Start: 21 @116051 has 11 MA's), (25, 116093), (83, 116432), (98, 116495), (105, 116537), (117, 116591), (127, 116669), (156, 116813), (164, 116840), (165, 116846), (182, 116984),

Gene: Targaryen_2 Start: 2329, Stop: 1316, Start Num: 22

Candidate Starts for Targaryen_2:

(Start: 3 @2467 has 4 MA's), (Start: 10 @2422 has 4 MA's), (13, 2404), (18, 2341), (Start: 22 @2329 has 85 MA's), (33, 2248), (36, 2218), (42, 2185), (49, 2152), (52, 2128), (56, 2113), (69, 2062), (93, 1897), (110, 1816), (118, 1777), (121, 1759), (123, 1729), (131, 1666), (135, 1648), (150, 1570), (156, 1537), (172, 1429), (174, 1411), (179, 1372),

Gene: Targaryen_253 Start: 126005, Stop: 124992, Start Num: 22

Candidate Starts for Targaryen_253:

(Start: 3 @126143 has 4 MA's), (Start: 10 @126098 has 4 MA's), (13, 126080), (18, 126017), (Start: 22 @126005 has 85 MA's), (33, 125924), (36, 125894), (42, 125861), (49, 125828), (52, 125804), (56, 125789), (69, 125738), (93, 125573), (110, 125492), (118, 125453), (121, 125435), (123, 125405), (131, 125342), (135, 125324), (150, 125246), (156, 125213), (172, 125105), (174, 125087), (179, 125048),

Gene: Terij_55 Start: 37200, Stop: 38201, Start Num: 23

Candidate Starts for Terij_55:

(Start: 23 @37200 has 30 MA's), (29, 37248), (39, 37314), (64, 37416), (71, 37479), (72, 37494), (78, 37530), (79, 37536), (80, 37539), (84, 37587), (108, 37707), (116, 37746), (130, 37869), (133, 37881), (136, 37896), (148, 37956), (151, 37971), (162, 38025), (175, 38136),

Gene: Teutsch_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for Teutsch_2:

(Start: 22 @2225 has 85 MA's), (36, 2114), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: Teutsch_249 Start: 124434, Stop: 123421, Start Num: 22

Candidate Starts for Teutsch_249:

(Start: 22 @124434 has 85 MA's), (36, 124323), (47, 124263), (50, 124254), (52, 124233), (56, 124218), (69, 124167), (81, 124056), (93, 124002), (110, 123921), (118, 123882), (121, 123864), (123, 123834), (131, 123771), (149, 123687), (150, 123675), (156, 123642), (167, 123582), (172, 123534), (174, 123516), (179, 123477),

Gene: ThirteenKH_17 Start: 12307, Stop: 11303, Start Num: 23

Candidate Starts for ThirteenKH_17:

(Start: 23 @12307 has 30 MA's), (42, 12178), (66, 12082), (72, 12013), (73, 12004), (84, 11920), (110, 11791), (123, 11698), (133, 11626), (139, 11596), (142, 11584), (147, 11566), (153, 11521), (173, 11389), (177, 11350), (187, 11308),

Gene: TomSawyer_2 Start: 2200, Stop: 1199, Start Num: 22

Candidate Starts for TomSawyer_2:

(Start: 17 @2245 has 18 MA's), (Start: 22 @2200 has 85 MA's), (36, 2089), (42, 2056), (50, 2023), (55, 2011), (57, 2002), (69, 1954), (70, 1936), (71, 1933), (93, 1789), (96, 1780), (103, 1738), (110, 1708), (118, 1669), (121, 1651), (123, 1621), (131, 1558), (156, 1426), (167, 1366), (172, 1318), (179, 1261), (190, 1216),

Gene: TomSawyer_267 Start: 123979, Stop: 122978, Start Num: 22

Candidate Starts for TomSawyer_267:

(Start: 17 @124024 has 18 MA's), (Start: 22 @123979 has 85 MA's), (36, 123868), (42, 123835), (50, 123802), (55, 123790), (57, 123781), (69, 123733), (70, 123715), (71, 123712), (93, 123568), (96, 123559), (103, 123517), (110, 123487), (118, 123448), (121, 123430), (123, 123400), (131, 123337), (156, 123205), (167, 123145), (172, 123097), (179, 123040), (190, 122995),

Gene: Tomas_3 Start: 2619, Stop: 1627, Start Num: 22

Candidate Starts for Tomas_3:

(15, 2676), (Start: 22 @2619 has 85 MA's), (31, 2550), (33, 2538), (36, 2508), (38, 2499), (55, 2430), (58, 2418), (69, 2373), (110, 2127), (118, 2088), (121, 2070), (123, 2040), (131, 1977), (150, 1881), (156, 1848), (167, 1788), (172, 1740), (180, 1680), (188, 1647),

Gene: Tomas_258 Start: 124326, Stop: 123334, Start Num: 22

Candidate Starts for Tomas_258:

(15, 124383), (Start: 22 @124326 has 85 MA's), (31, 124257), (33, 124245), (36, 124215), (38, 124206), (55, 124137), (58, 124125), (69, 124080), (110, 123834), (118, 123795), (121, 123777), (123, 123747), (131, 123684), (150, 123588), (156, 123555), (167, 123495), (172, 123447), (180, 123387), (188, 123354),

Gene: Tribute_248 Start: 124769, Stop: 123756, Start Num: 22

Candidate Starts for Tribute_248:

(Start: 22 @124769 has 85 MA's), (36, 124658), (47, 124598), (50, 124589), (52, 124568), (56, 124553), (69, 124502), (81, 124391), (93, 124337), (110, 124256), (118, 124217), (121, 124199), (123, 124169), (131, 124106), (149, 124022), (150, 124010), (156, 123977), (167, 123917), (172, 123869), (174, 123851), (179, 123812),

Gene: Tribute_2 Start: 2225, Stop: 1212, Start Num: 22

Candidate Starts for Tribute_2:

(Start: 22 @2225 has 85 MA's), (36, 2114), (47, 2054), (50, 2045), (52, 2024), (56, 2009), (69, 1958), (81, 1847), (93, 1793), (110, 1712), (118, 1673), (121, 1655), (123, 1625), (131, 1562), (149, 1478), (150, 1466), (156, 1433), (167, 1373), (172, 1325), (174, 1307), (179, 1268),

Gene: Trina_210 Start: 112849, Stop: 113895, Start Num: 20

Candidate Starts for Trina_210:

(Start: 20 @112849 has 4 MA's), (35, 112954), (36, 112960), (41, 112978), (45, 113008), (46, 113017), (47, 113020), (51, 113044), (59, 113092), (75, 113215), (83, 113275), (94, 113332), (98, 113347), (112, 113425), (115, 113437), (118, 113446), (122, 113482), (123, 113494), (124, 113500), (126, 113515), (127, 113521), (156, 113683), (175, 113806), (187, 113866),

Gene: TrippleS_17 Start: 12314, Stop: 11310, Start Num: 23

Candidate Starts for TrippleS_17:

(Start: 23 @12314 has 30 MA's), (42, 12185), (66, 12089), (72, 12020), (73, 12011), (82, 11936), (110, 11798), (123, 11705), (133, 11633), (136, 11618), (139, 11603), (142, 11591), (147, 11573), (153, 11528), (173, 11396), (177, 11357), (187, 11315),

Gene: Truong_17 Start: 12296, Stop: 11307, Start Num: 23

Candidate Starts for Truong_17:

(Start: 23 @12296 has 30 MA's), (39, 12182), (42, 12167), (68, 12053), (72, 12014), (73, 12005), (84, 11921), (110, 11792), (123, 11699), (136, 11612), (161, 11492), (170, 11414), (175, 11372), (177, 11354), (183, 11327),

Gene: TunaTartare_218 Start: 111927, Stop: 112946, Start Num: 21

Candidate Starts for TunaTartare_218:

(Start: 21 @111927 has 11 MA's), (24, 111957), (36, 112044), (44, 112083), (54, 112122), (63, 112155), (98, 112374), (107, 112422), (113, 112458), (115, 112464), (131, 112584), (136, 112608), (137, 112614), (138, 112617), (156, 112713), (163, 112743), (176, 112872), (184, 112911), (185, 112914), (189, 112926),

Gene: Warpy_257 Start: 124267, Stop: 123161, Start Num: 10

Candidate Starts for Warpy_257:

(Start: 10 @124267 has 4 MA's), (13, 124249), (18, 124186), (Start: 22 @124174 has 85 MA's), (33, 124093), (36, 124063), (42, 124030), (49, 123997), (52, 123973), (56, 123958), (69, 123907), (93, 123742), (110, 123661), (118, 123622), (121, 123604), (123, 123574), (131, 123511), (135, 123493), (150, 123415), (156, 123382), (172, 123274), (174, 123256), (179, 123217),

Gene: Warpy_5 Start: 2729, Stop: 1623, Start Num: 10

Candidate Starts for Warpy_5:

(Start: 10 @2729 has 4 MA's), (13, 2711), (18, 2648), (Start: 22 @2636 has 85 MA's), (33, 2555), (36, 2525), (42, 2492), (49, 2459), (52, 2435), (56, 2420), (69, 2369), (93, 2204), (110, 2123), (118, 2084), (121, 2066), (123, 2036), (131, 1973), (135, 1955), (150, 1877), (156, 1844), (172, 1736), (174, 1718), (179, 1679),

Gene: Waterlily_17 Start: 12338, Stop: 11307, Start Num: 23

Candidate Starts for Waterlily_17:

(Start: 23 @12338 has 30 MA's), (39, 12224), (42, 12209), (68, 12053), (72, 12014), (73, 12005), (84, 11921), (110, 11792), (123, 11699), (136, 11612), (161, 11492), (170, 11414), (175, 11372), (177, 11354), (183, 11327),

Gene: Watermoore_2 Start: 2226, Stop: 1213, Start Num: 22

Candidate Starts for Watermoore_2:

(Start: 3 @2373 has 4 MA's), (Start: 10 @2319 has 4 MA's), (13, 2301), (Start: 22 @2226 has 85 MA's), (36, 2115), (42, 2082), (47, 2055), (50, 2046), (52, 2025), (56, 2010), (69, 1959), (81, 1848), (93, 1794), (110, 1713), (118, 1674), (121, 1656), (123, 1626), (131, 1563), (149, 1479), (150, 1467), (156, 1434), (167, 1374), (172, 1326), (174, 1308), (179, 1269),

Gene: Watermoore_249 Start: 124822, Stop: 123809, Start Num: 22

Candidate Starts for Watermoore_249:

(Start: 3 @124969 has 4 MA's), (Start: 10 @124915 has 4 MA's), (13, 124897), (Start: 22 @124822 has 85 MA's), (36, 124711), (42, 124678), (47, 124651), (50, 124642), (52, 124621), (56, 124606), (69, 124555), (81, 124444), (93, 124390), (110, 124309), (118, 124270), (121, 124252), (123, 124222), (131, 124159), (149, 124075), (150, 124063), (156, 124030), (167, 123970), (172, 123922), (174, 123904), (179, 123865),

Gene: Weasels2_189 Start: 100516, Stop: 101544, Start Num: 20

Candidate Starts for Weasels2_189:

(11, 100435), (Start: 20 @100516 has 4 MA's), (26, 100555), (28, 100570), (33, 100600), (37, 100633), (47, 100690), (62, 100762), (83, 100918), (85, 100924), (98, 100990), (106, 101035), (119, 101101), (122, 101125), (123, 101137), (124, 101143), (154, 101320), (188, 101521), (190, 101530),

Gene: Wipeout_255 Start: 122997, Stop: 121951, Start Num: 17

Candidate Starts for Wipeout_255:

(Start: 17 @122997 has 18 MA's), (Start: 22 @122952 has 85 MA's), (36, 122841), (42, 122808), (50, 122775), (55, 122763), (57, 122754), (69, 122706), (70, 122688), (71, 122685), (93, 122541), (96, 122532), (103, 122490), (110, 122460), (118, 122421), (121, 122403), (123, 122373), (131, 122310), (156, 122178), (167, 122118), (172, 122070), (179, 122013), (190, 121968),

Gene: Wipeout_2 Start: 2266, Stop: 1220, Start Num: 17

Candidate Starts for Wipeout_2:

(Start: 17 @2266 has 18 MA's), (Start: 22 @2221 has 85 MA's), (36, 2110), (42, 2077), (50, 2044), (55, 2032), (57, 2023), (69, 1975), (70, 1957), (71, 1954), (93, 1810), (96, 1801), (103, 1759), (110, 1729), (118, 1690), (121, 1672), (123, 1642), (131, 1579), (156, 1447), (167, 1387), (172, 1339), (179, 1282), (190, 1237),

Gene: Wofford_3 Start: 2491, Stop: 1490, Start Num: 22

Candidate Starts for Wofford_3:

(1, 2638), (6, 2599), (7, 2587), (12, 2566), (15, 2548), (Start: 22 @2491 has 85 MA's), (36, 2380), (55, 2302), (57, 2293), (69, 2245), (70, 2227), (71, 2224), (93, 2080), (96, 2071), (110, 1999), (118, 1960), (121, 1942), (123, 1912), (131, 1849), (144, 1792), (145, 1789), (156, 1717), (167, 1657), (169, 1636), (172, 1609), (174, 1591), (188, 1516),

Gene: Wofford_261 Start: 124284, Stop: 123283, Start Num: 22

Candidate Starts for Wofford_261:

(1, 124431), (6, 124392), (7, 124380), (12, 124359), (15, 124341), (Start: 22 @124284 has 85 MA's), (36, 124173), (55, 124095), (57, 124086), (69, 124038), (70, 124020), (71, 124017), (93, 123873), (96, 123864), (110, 123792), (118, 123753), (121, 123735), (123, 123705), (131, 123642), (144, 123585), (145, 123582), (156, 123510), (167, 123450), (169, 123429), (172, 123402), (174, 123384), (188, 123309),

Gene: Yaboi_4 Start: 2628, Stop: 1627, Start Num: 22

Candidate Starts for Yaboi_4:

(14, 2694), (15, 2685), (Start: 22 @2628 has 85 MA's), (36, 2517), (57, 2430), (88, 2238), (93, 2217), (96, 2208), (103, 2166), (110, 2136), (118, 2097), (121, 2079), (123, 2049), (131, 1986), (156, 1854), (167, 1794), (172, 1746), (174, 1728), (179, 1689),

Gene: Yaboi_265 Start: 121446, Stop: 120445, Start Num: 22

Candidate Starts for Yaboi_265:

(14, 121512), (15, 121503), (Start: 22 @121446 has 85 MA's), (36, 121335), (57, 121248), (88, 121056), (93, 121035), (96, 121026), (103, 120984), (110, 120954), (118, 120915), (121, 120897), (123, 120867), (131, 120804), (156, 120672), (167, 120612), (172, 120564), (174, 120546), (179, 120507),

Gene: Yafa_17 Start: 12330, Stop: 11326, Start Num: 23

Candidate Starts for Yafa_17:

(Start: 23 @12330 has 30 MA's), (42, 12201), (66, 12105), (72, 12036), (73, 12027), (84, 11943), (110, 11814), (123, 11721), (133, 11649), (139, 11619), (142, 11607), (147, 11589), (153, 11544), (173, 11412), (177, 11373), (187, 11331),

Gene: Zhengyi_18 Start: 13141, Stop: 12152, Start Num: 23

Candidate Starts for Zhengyi_18:

(Start: 23 @13141 has 30 MA's), (26, 13111), (30, 13090), (47, 12985), (66, 12928), (71, 12874), (73, 12850), (76, 12835), (101, 12679), (108, 12646), (159, 12346), (170, 12259), (175, 12217), (177, 12199),