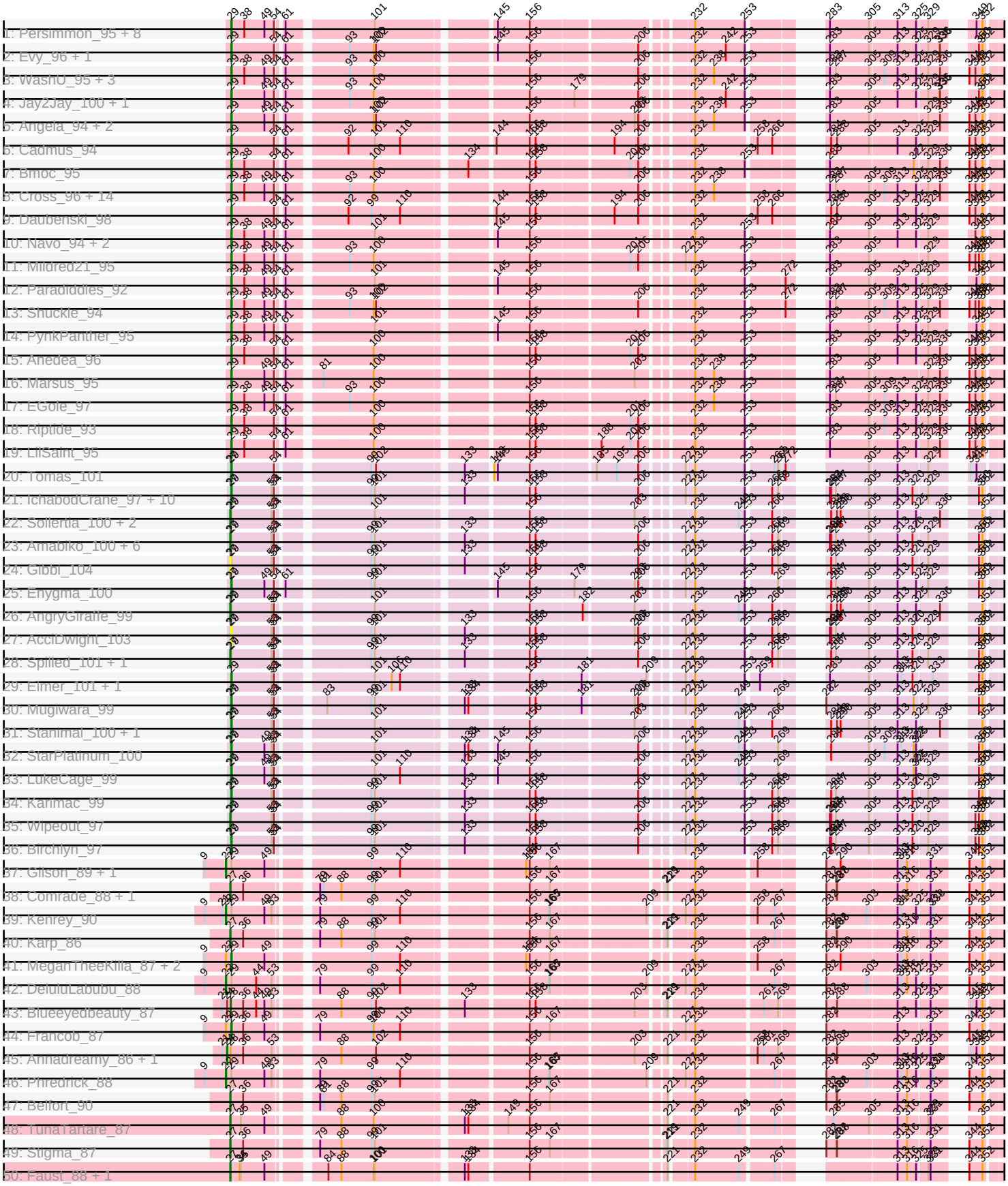
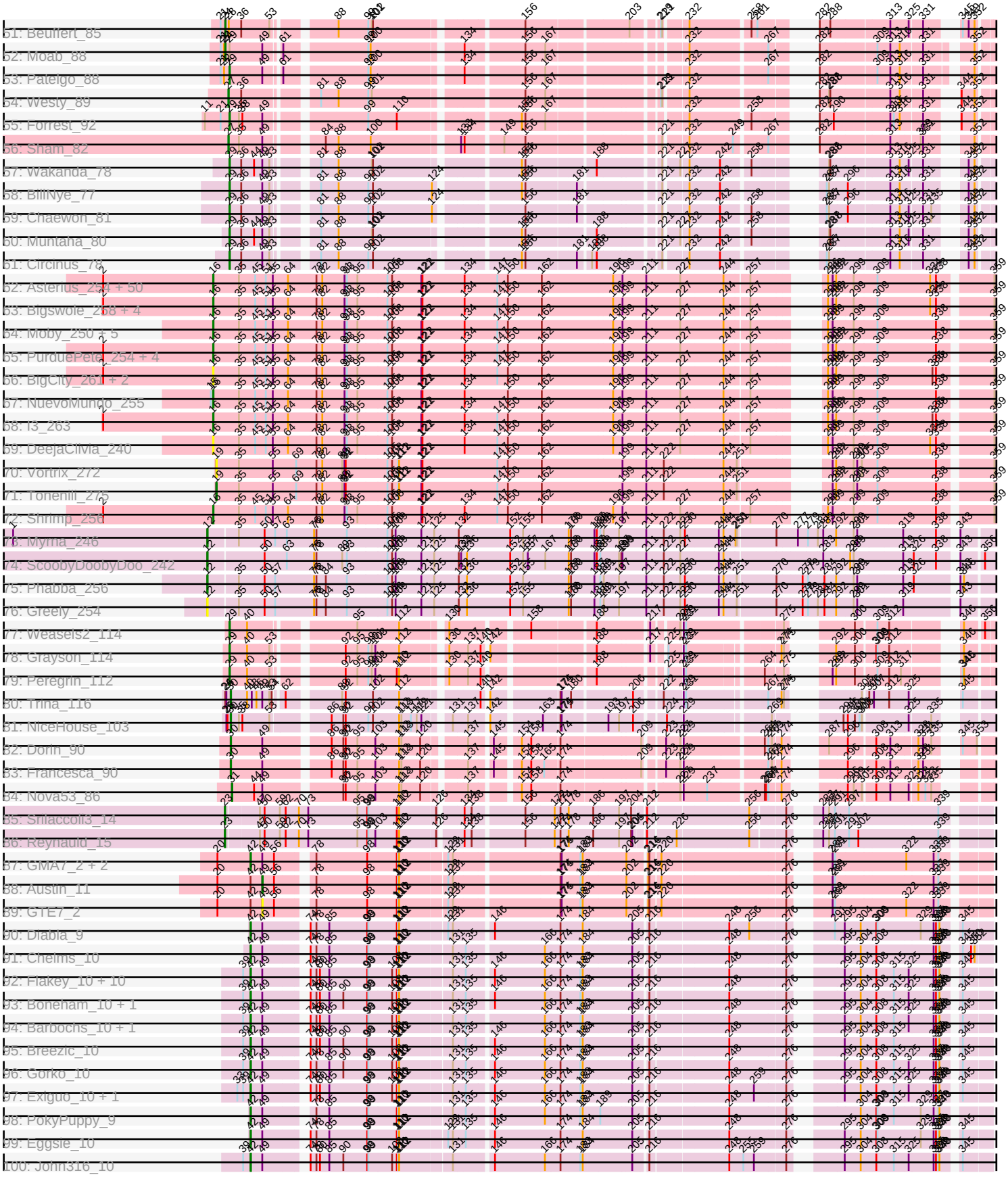
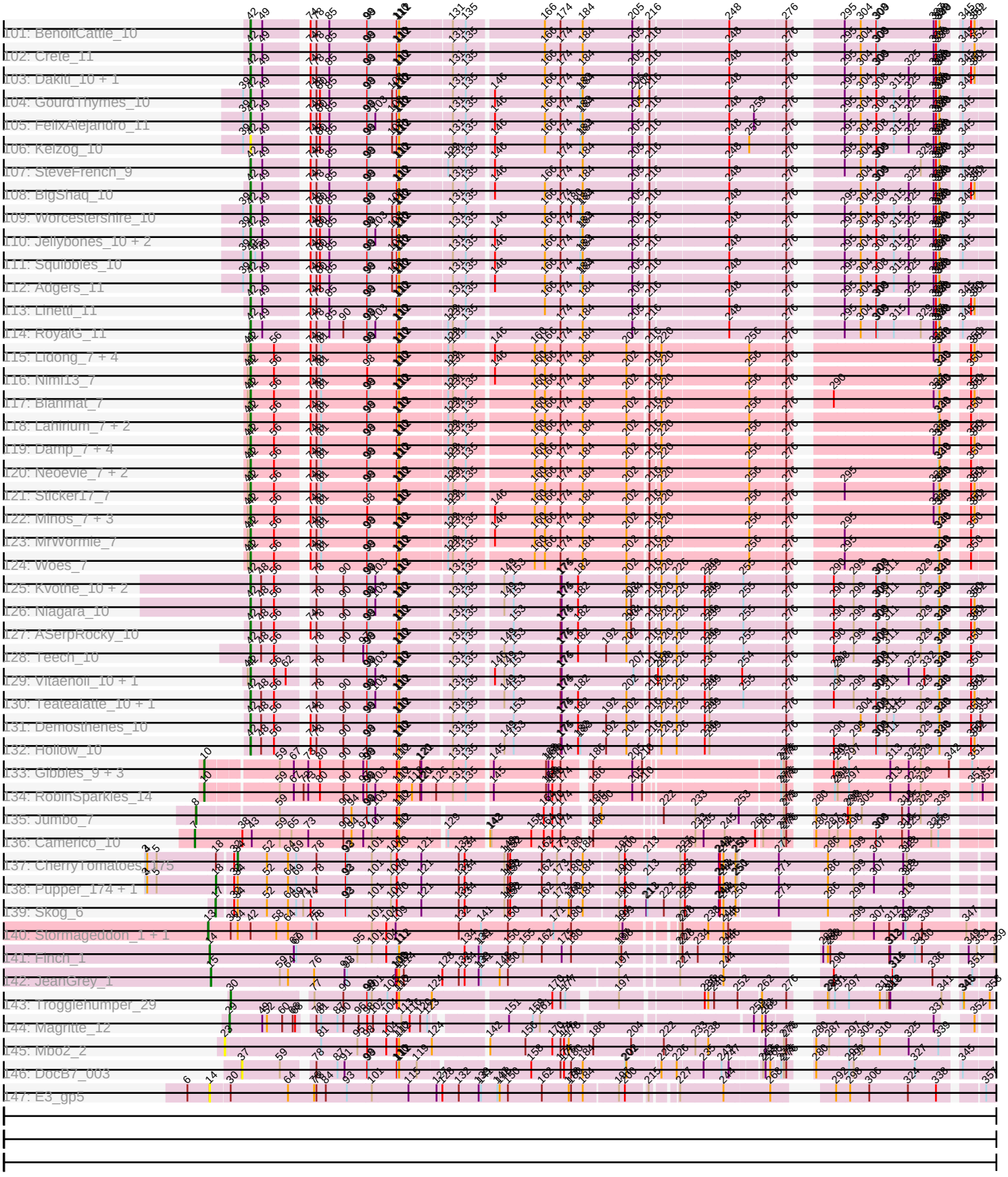
Zoomed Pham 345297



Zoomed Pham 345297



Zoomed Pham 345297



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 345297 Report

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

Pham number 345297 has 312 members, 26 are drafts.

Phages represented in each track:
• Track 1 : Persimmon_95, Braelyn_97, Bartholomune_95, FreddyDRoo_95, PinkiePie_95, Eliot67_94, Liandry_95, Squillium_96, NootNoot_92
• Track 2 : Evy_96, Targaryen_96
• Track 3 : WashU_95, Sushi23_95, Pepperwood_96, Peebs_95
• Track 4 : Jay2Jay_100, Warpy_99
• Track 5 : Angela_94, LilMartin_94, MulchMansion_94
• Track 6 : Cadmus_94
• Track 7 : Bmoc_95
• Track 8 : Cross_96, Cursive_94, Larnav_96, Teutsch_96, ArianaSWT_97, Tribute_94, Lululemon_95, Coogler_96, Leo04_97, Watermoore_95, HangryHippo_96, BlueOtter_96, Scheme_97, Samisti12_96, PacManQ_95
• Track 9 : Daubenski_98
• Track 10 : Navo_94, Davielle_94, WhereRU_93
• Track 11 : Mildred21_95
• Track 12 : Paradiddles_92
• Track 13 : Shuckle_94
• Track 14 : PynkPanther_95
• Track 15 : Anedea_96
• Track 16 : Marsus_95
• Track 17 : EGole_97
• Track 18 : Riptide_93
• Track 19 : LilSaint_95
• Track 20 : Tomas_101
• Track 21 : IchabodCrane_97, Bordeaux_98, Daisy123_99, Quaran19_99, PumpkinSpice_99, Rikishi_99, Battuta_98, Jollison_99, SaltySpitoon_99, JimJam_100, Spelly_100
• Track 22 : Sollertia_100, Genie2_100, BoomerJR_100
• Track 23 : Amabiko_100, CeilingFan_99, Starbow_98, MindFlayer_97, TomSawyer_98, KentuckyRacer_100, Tuesday_103
• Track 24 : Gibbi_104
• Track 25 : Enygma_100
• Track 26 : AngryGiraffe_99
• Track 27 : AcciDwight_103
• Track 28 : Spilled_101, Brizzy_99
• Track 29 : Elmer_101, Wofford_98
• Track 30 : Mugiwara_99
• Track 31 : Stanimal_100, Yaboi_100

• Track 32 : StarPlatinum_100
• Track 33 : LukeCage_99
• Track 34 : Karimac_99
• Track 35 : Wipeout_97
• Track 36 : Birchlyn_97
• Track 37 : Gilson_89, Maupel_88
• Track 38 : Comrade_88, SparkleGoddess_88
• Track 39 : Kenrey_90
• Track 40 : Karp_86
• Track 41 : MeganTheeKilla_87, Jada_89, Emma1919_90
• Track 42 : DeluluLabubu_88
• Track 43 : Blueeyedbeauty_87
• Track 44 : Francob_87
• Track 45 : Annadreamy_86, Limpid_85
• Track 46 : Phredrick_88
• Track 47 : Belfort_90
• Track 48 : TunaTartare_87
• Track 49 : Stigma_87
• Track 50 : Faust_88, SeresaTree_88
• Track 51 : Beuffert_85
• Track 52 : Moab_88
• Track 53 : Patelgo_88
• Track 54 : Westy_89
• Track 55 : Forrest_92
• Track 56 : Sham_82
• Track 57 : Wakanda_78
• Track 58 : BillNye_77
• Track 59 : Chaewon_81
• Track 60 : Muntaha_80
• Track 61 : Circinus_78
• Track 62 : Asterius_254, EmToTheThree_254, Demodog_261, Daffodil_259, Dandelion_259, ParkTD_252, Loanshark_250, DTDevon_254, Bangla1971_254, Delylah_255, Roots515_256, Erdmann_255, Ewok_252, JigglyPuff_259, NedWong_252, Adlitam_253, ShiaLabeouf_251, MoMoMixon_249, Burrough_254, OrediggerDelux_255, DrPhinkDaddy_250, Pio_260, Nappy_252, Tortoise16_251, Zeenon_254, Gizmo_259, Bread_250, Yucca_254, Caravan_243, Concombre_259, Bipolarisk_251, Ava3_250, MikeLiesIn_254, Shelob_254, Delilah_251, FoxtrotP1_252, Megamind_250, Maby2021_254, Zalkecks_252, Fongie_253, Tyke_250, Norm_253, Phox_254, FudgeTart_249, Salacia_255, Shnickers_252, Bxz1_239, SrishMeg2525_251, YemiJoy2021_254, TinyTim_252, Pleione_257
• Track 63 : Bigswole_258, Bezza_247, Lethe_251, Guwapp_249, BeanWater_246
• Track 64 : Moby_250, Moiqah_249, Sebata_253, JayJay_253, HyRo_238, Shifa_229
• Track 65 : PurduePete_254, Khaleesi_252, Jessibeth14_253, McWolfish_250, SVoro_248
• Track 66 : BigCity_261, Grasshills_260, EggyFarm_261
• Track 67 : NuevoMundo_255
• Track 68 : I3_263
• Track 69 : DeejaClivia_240
• Track 70 : Vortrix_272
• Track 71 : Tonenili_275
• Track 72 : Shrimp_256
• Track 73 : Myrna_246

• Track 74 : ScoobyDoobyDoo_242
• Track 75 : Phabba_256
• Track 76 : Greely_254
• Track 77 : Weasels2_114
• Track 78 : Grayson_114
• Track 79 : Peregrin_112
• Track 80 : Trina_116
• Track 81 : NiceHouse_103
• Track 82 : Dorin_90
• Track 83 : Francesca_90
• Track 84 : Nova53_86
• Track 85 : Srilaccoli3_14
• Track 86 : Reynauld_15
• Track 87 : GMA7_2, HayZem_11, Amore2_11
• Track 88 : Austin_11
• Track 89 : GTE7_2
• Track 90 : Diabla_9
• Track 91 : Chelms_10
• Track 92 : Flakey_10, Ekhein_10, Lizzo_10, Sombrero_10, Hotorobo_10, Beaver_10, Monty_9, CathyBurgh_10, Poland_11, BirksAndSocks_10, Msay19_11
• Track 93 : Boneham_10, Butterball_10
• Track 94 : Barbochs_10, RemRem_10
• Track 95 : Breezic_10
• Track 96 : Gorko_10
• Track 97 : Exiguo_10, Sam12_10
• Track 98 : PokyPuppy_9
• Track 99 : Eggsie_10
• Track 100 : John316_10
• Track 101 : BenoitCattle_10
• Track 102 : Crete_11
• Track 103 : Dakiti_10, PierreThree_10
• Track 104 : GourdThymes_10
• Track 105 : FelixAlejandro_11
• Track 106 : Kelzog_10
• Track 107 : SteveFrench_9
• Track 108 : BigShaq_10
• Track 109 : Worcestershire_10
• Track 110 : Jellybones_10, CinnamonToast_11, BillyBobJr_11
• Track 111 : Squibbles_10
• Track 112 : Adgers_11
• Track 113 : Linetti_11
• Track 114 : RoyalG_11
• Track 115 : Lidong_7, Hello_7, GalacticEye_7, Charianelly_7, Berries_7
• Track 116 : Nimi13_7
• Track 117 : Bianmat_7
• Track 118 : Lahirium_7, Hail2Pitt_7, Anamika_7
• Track 119 : Damp_7, Jams_7, Teal_7, Guillaume_7, Newt_7
• Track 120 : Neoevie_7, Jormungandr_7, Harambe_7
• Track 121 : Sticker17_7
• Track 122 : Minos_7, Kaseim_7, Shelley_7, Luker_7
• Track 123 : MrWormie_7
• Track 124 : Woes_7
• Track 125 : Kvothe_10, Katyusha_10, Benczkowski14_10

• Track 126 : Niagara_10
• Track 127 : ASerpRocky_10
• Track 128 : Teech_10
• Track 129 : Vitaenoii_10, Philon9_10
• Track 130 : Teatealatte_10, Tredge_10
• Track 131 : Demosthenes_10
• Track 132 : Hollow_10
• Track 133 : Gibbles_9, Kampe_10, Orchid_10, PatrickStar_10
• Track 134 : RobinSparkles_14
• Track 135 : Jumbo_7
• Track 136 : Camerico_10
• Track 137 : CherryTomatoes_175
• Track 138 : Pupper_174, SCentae_173
• Track 139 : Skog_6
• Track 140 : Stormageddon_1, RedWattleHog_1
• Track 141 : Finch_1
• Track 142 : JeanGrey_1
• Track 143 : Trogglehumper_29
• Track 144 : Magritte_12
• Track 145 : Mbo2_2
• Track 146 : DocB7_003
• Track 147 : E3_gp5

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

The start number called the most often in the published annotations is 29, it was called in 86 of the 286 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AcciDwight_103, Anedea_96, Angela_94, ArianaSWT_97, Bartholomune_95, Battuta_98, BillNye_77, Birchlyn_97, BlueOtter_96, Bmoc_95, Bordeaux_98, Braelyn_97, Cadmus_94, Chaewon_81, Circinus_78, Coogler_96, Cross_96, Cursive_94, Daisy123_99, Daubenski_98, Davielle_94, EGole_97, Eliot67_94, Elmer_101, Emma1919_90, Enygma_100, Evy_96, Forrest_92, Francob_87, FreddyDRoo_95, Grayson_114, HangryHippo_96, IchabodCrane_97, Jada_89, Jay2Jay_100, JimJam_100, Jollison_99, Karimac_99, Larnav_96, Leo04_97, Liandry_95, LilMartin_94, LilSaint_95, LukeCage_99, Lululemon_95, Magritte_12, Marsus_95, MeganTheeKilla_87, Mildred21_95, Mugiwara_99, MulchMansion_94, Muntaha_80, Navo_94, NootNoot_92, PacManQ_95, Paradiddles_92, Patelgo_88, Peebs_95, Pepperwood_96, Peregrin_112, Persimmon_95, PinkiePie_95, PumpkinSpice_99, PynkPanther_95, Quaran19_99, Rikishi_99, Riptide_93, SaltySpitoon_99, Samisti12_96, Scheme_97, Shuckle_94, Spelly_100, Squillium_96, Stanimal_100, StarPlatinum_100, Sushi23_95, Targaryen_96, Teutsch_96, Tomas_101, Tribute_94, Wakanda_78, Warpy_99, WashU_95, Watermoore_95, Weasels2_114, WhereRU_93, Wofford_98, Yaboi_100,

Genes that have the "Most Annotated" start but do not call it:
• Amabiko_100, AngryGiraffe_99, BoomerJR_100, Brizzy_99, CeilingFan_99, DeluluLabubu_88, Genie2_100, Gibbi_104, Gilson_89, Kenrey_90, KentuckyRacer_100, Maupel_88, MindFlayer_97, Moab_88, Phredrick_88,

Sollertia_100, Spilled_101, Starbow_98, TomSawyer_98, Tuesday_103, Wipeout_97,

Genes that do not have the "Most Annotated" start:
• ASerpRocky_10, Adgers_11, Adlitam_253, Amore2_11, Anamika_7, Annadreamy_86, Asterius_254, Austin_11, Ava3_250, Bangla1971_254, Barbochs_10, BeanWater_246, Beaver_10, Belfort_90, Benczkowski14_10, BenoitCattle_10, Berries_7, Beuffert_85, Bezza_247, Bianmat_7, BigCity_261, BigShaq_10, Bigswole_258, BillyBobJr_11, Bipolarisk_251, BirksAndSocks_10, Blueeyedbeauty_87, Boneham_10, Bread_250, Breezic_10, Burrough_254, Butterball_10, Bxz1_239, Camerico_10, Caravan_243, CathyBurgh_10, Charianelly_7, Chelms_10, CherryTomatoes_175, CinnamonToast_11, Comrade_88, Concombre_259, Crete_11, DTDevon_254, Daffodil_259, Dakiti_10, Damp_7, Dandelion_259, DeejaClivia_240, Delilah_251, Delylah_255, Demodog_261, Demosthenes_10, Diabla_9, DocB7_003, Dorin_90, DrPhinkDaddy_250, E3_gp5, Eggsie_10, EggyFarm_261, Ekhein_10, EmToTheThree_254, Erdmann_255, Ewok_252, Exiguo_10, Faust_88, FelixAlejandro_11, Finch_1, Flakey_10, Fongie_253, FoxtrotP1_252, Francesca_90, FudgeTart_249, GMA7_2, GTE7_2, GalacticEye_7, Gibbles_9, Gizmo_259, Gorko_10, GourdThymes_10, Grasshills_260, Greely_254, Guillaume_7, Guwapp_249, Hail2Pitt_7, Harambe_7, HayZem_11, Hello_7, Hollow_10, Hotorobo_10, HyRo_238, I3_263, Jams_7, JayJay_253, JeanGrey_1, Jellybones_10, Jessibeth14_253, JigglyPuff_259, John316_10, Jormungandr_7, Jumbo_7, Kampe_10, Karp_86, Kaseim_7, Katyusha_10, Kelzog_10, Khaleesi_252, Kvothe_10, Lahirium_7, Lethe_251, Lidong_7, Limpid_85, Linetti_11, Lizzo_10, Loanshark_250, Luker_7, Maby2021_254, Mbo2_2, McWolfish_250, Megamind_250, MikeLiesIn_254, Minos_7, MoMoMixon_249, Moby_250, Moiqah_249, Monty_9, MrWormie_7, Msay19_11, Myrna_246, Nappy_252, NedWong_252, Neoevie_7, Newt_7, Niagara_10, NiceHouse_103, Nimi13_7, Norm_253, Nova53_86, NuevoMundo_255, Orchid_10, OrediggerDelux_255, ParkTD_252, PatrickStar_10, Phabba_256, Philon9_10, Phox_254, PierreThree_10, Pio_260, Pleione_257, PokyPuppy_9, Poland_11, Pupper_174, PurduePete_254, RedWattleHog_1, RemRem_10, Reynauld_15, RobinSparkles_14, Roots515_256, RoyalG_11, SCentae_173, SVoro_248, Salacia_255, Sam12_10, ScoobyDoobyDoo_242, Sebata_253, SeresaTree_88, Sham_82, Shelley_7, Shelob_254, ShiaLabeouf_251, Shifa_229, Shnickers_252, Shrimp_256, Skog_6, Sombrero_10, SparkleGoddess_88, Squibbles_10, Srilaccoli3_14, SrishMeg2525_251, SteveFrench_9, Sticker17_7, Stigma_87, Stormageddon_1, Teal_7, Teatealatte_10, Teech_10, TinyTim_252, Tonenili_275, Tortoise16_251, Tredge_10, Trina_116, Trogglehumper_29, TunaTartare_87, Tyke_250, Vitaenoii_10, Vortrix_272, Westy_89, Woes_7, Worcestershire_10, YemiJoy2021_254, Yucca_254, Zalkecks_252, Zeenon_254,

Summary by start number:

Start 7:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Camerico_10 (DF4),

Start 8:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Jumbo_7 (DF3),

Start 10:
• Found in 5 of 312 (1.6%) of genes in pham
• Manual Annotations of this start: 5 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbles_9 (CX), Kampe_10 (CX), Orchid_10 (CX), PatrickStar_10 (CX), RobinSparkles_14 (CX),

Start 12:
• Found in 4 of 312 (1.3%) of genes in pham
• Manual Annotations of this start: 3 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greely_254 (C2), Myrna_246 (C2), Phabba_256 (C2), ScoobyDoobyDoo_242 (C2),

Start 13:
• Found in 2 of 312 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_1 (DX), Stormageddon_1 (DX),

Start 14:
• Found in 2 of 312 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp5 (singleton), Finch_1 (singleton),

Start 15:
• Found in 2 of 312 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 50.0% of time when present
• Phage (with cluster) where this start called: JeanGrey_1 (singleton),

Start 16:
• Found in 74 of 312 (23.7%) of genes in pham
• Manual Annotations of this start: 64 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adlitam_253 (C1), Asterius_254 (C1), Ava3_250 (C1), Bangla1971_254 (C1), BeanWater_246 (C1), Bezza_247 (C1), BigCity_261 (C1), Bigswole_258 (C1), Bipolarisk_251 (C1), Bread_250 (C1), Burrough_254 (C1), Bxz1_239 (C1), Caravan_243 (C1), Concombre_259 (C1), DTDevon_254 (C1), Daffodil_259 (C1), Dandelion_259 (C1), DeejaClivia_240 (C1), Delilah_251 (C1), Delylah_255 (C1), Demodog_261 (C1), DrPhinkDaddy_250 (C1), EggyFarm_261 (C1), EmToTheThree_254 (C1), Erdmann_255 (C1), Ewok_252 (C1), Fongie_253 (C1), FoxtrotP1_252 (C1), FudgeTart_249 (C1), Gizmo_259 (C1), Grasshills_260 (C1), Guwapp_249 (C1), HyRo_238 (C1), I3_263 (C1), JayJay_253 (C1), Jessibeth14_253 (C1), JigglyPuff_259 (C1), Khaleesi_252 (C1), Lethe_251 (C1), Loanshark_250 (C1), Maby2021_254 (C1), McWolfish_250 (C1), Megamind_250 (C1), MikeLiesIn_254 (C1), MoMoMixon_249 (C1), Moby_250 (C1), Moiqah_249 (C1), Nappy_252 (C1), NedWong_252 (C1), Norm_253 (C1), NuevoMundo_255 (C1), OrediggerDelux_255 (C1), ParkTD_252 (C1), Phox_254

(C1), Pio_260 (C1), Pleione_257 (C1), PurduePete_254 (C1), Roots515_256 (C1), SVoro_248 (C1), Salacia_255 (C1), Sebata_253 (C1), Shelob_254 (C1), ShiaLabeouf_251 (C1), Shifa_229 (C1), Shnickers_252 (C1), Shrimp_256 (C1), SrishMeg2525_251 (C1), TinyTim_252 (C1), Tortoise16_251 (C1), Tyke_250 (C1), YemiJoy2021_254 (C1), Yucca_254 (C1), Zalkecks_252 (C1), Zeenon_254 (C1),

Start 17:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Skog_6 (DO),

Start 18:
• Found in 3 of 312 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 286
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Pupper_174 (DO), SCentae_173 (DO),

Start 19:
• Found in 2 of 312 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tonenili_275 (C1), Vortrix_272 (C1),

Start 22:
• Found in 11 of 312 (3.5%) of genes in pham
• Manual Annotations of this start: 4 of 286
• Called 45.5% of time when present
• Phage (with cluster) where this start called: DeluluLabubu_88 (BK1), Gilson_89 (BK1), Kenrey_90 (BK1), Maupel_88 (BK1), Phredrick_88 (BK1),

Start 23:
• Found in 3 of 312 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mbo2_2 (singleton), Reynauld_15 (CH), Srilaccoli3_14 (CH),

Start 24:
• Found in 6 of 312 (1.9%) of genes in pham
• Manual Annotations of this start: 4 of 286
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Annadreamy_86 (BK1), Beuffert_85 (BK1), Limpid_85 (BK1), Moab_88 (BK1),

Start 27:
• Found in 46 of 312 (14.7%) of genes in pham
• Manual Annotations of this start: 22 of 286
• Called 54.3% of time when present
• Phage (with cluster) where this start called: Amabiko_100 (BE2), AngryGiraffe_99 (BE2), Belfort_90 (BK1), BoomerJR_100 (BE2), Brizzy_99 (BE2), CeilingFan_99 (BE2), Comrade_88 (BK1), Faust_88 (BK1), Genie2_100 (BE2), Gibbi_104 (BE2), Karp_86 (BK1), KentuckyRacer_100 (BE2), MindFlayer_97 (BE2), SeresaTree_88

(BK1), Sham_82 (BK1), Sollertia_100 (BE2), SparkleGoddess_88 (BK1), Spilled_101 (BE2), Starbow_98 (BE2), Stigma_87 (BK1), TomSawyer_98 (BE2), Tuesday_103 (BE2), TunaTartare_87 (BK1), Westy_89 (BK1), Wipeout_97 (BE2),

Start 28:
• Found in 4 of 312 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Blueeyedbeauty_87 (BK1),

Start 29:
• Found in 109 of 312 (34.9%) of genes in pham
• Manual Annotations of this start: 86 of 286
• Called 80.7% of time when present
• Phage (with cluster) where this start called: AcciDwight_103 (BE2), Anedea_96 (BE1), Angela_94 (BE1), ArianaSWT_97 (BE1), Bartholomune_95 (BE1), Battuta_98 (BE2), BillNye_77 (BK2), Birchlyn_97 (BE2), BlueOtter_96 (BE1), Bmoc_95 (BE1), Bordeaux_98 (BE2), Braelyn_97 (BE1), Cadmus_94 (BE1), Chaewon_81 (BK2), Circinus_78 (BK2), Coogler_96 (BE1), Cross_96 (BE1), Cursive_94 (BE1), Daisy123_99 (BE2), Daubenski_98 (BE1), Davielle_94 (BE1), EGole_97 (BE1), Eliot67_94 (BE1), Elmer_101 (BE2), Emma1919_90 (BK1), Enygma_100 (BE2), Evy_96 (BE1), Forrest_92 (BK1), Francob_87 (BK1), FreddyDRoo_95 (BE1), Grayson_114 (CB), HangryHippo_96 (BE1), IchabodCrane_97 (BE2), Jada_89 (BK1), Jay2Jay_100 (BE1), JimJam_100 (BE2), Jollison_99 (BE2), Karimac_99 (BE2), Larnav_96 (BE1), Leo04_97 (BE1), Liandry_95 (BE1), LilMartin_94 (BE1), LilSaint_95 (BE1), LukeCage_99 (BE2), Lululemon_95 (BE1), Magritte_12 (singleton), Marsus_95 (BE1), MeganTheeKilla_87 (BK1), Mildred21_95 (BE1), Mugiwara_99 (BE2), MulchMansion_94 (BE1), Muntaha_80 (BK2), Navo_94 (BE1), NootNoot_92 (BE1), PacManQ_95 (BE1), Paradiddles_92 (BE1), Patelgo_88 (BK1), Peebs_95 (BE1), Pepperwood_96 (BE1), Peregrin_112 (CB), Persimmon_95 (BE1), PinkiePie_95 (BE1), PumpkinSpice_99 (BE2), PynkPanther_95 (BE1), Quaran19_99 (BE2), Rikishi_99 (BE2), Riptide_93 (BE1), SaltySpitoon_99 (BE2), Samisti12_96 (BE1), Scheme_97 (BE1), Shuckle_94 (BE1), Spelly_100 (BE2), Squillium_96 (BE1), Stanimal_100 (BE2), StarPlatinum_100 (BE2), Sushi23_95 (BE1), Targaryen_96 (BE1), Teutsch_96 (BE1), Tomas_101 (BE2), Tribute_94 (BE1), Wakanda_78 (BK2), Warpy_99 (BE1), WashU_95 (BE1), Watermoore_95 (BE1), Weasels2_114 (CB), WhereRU_93 (BE1), Wofford_98 (BE2), Yaboi_100 (BE2),

Start 30:
• Found in 8 of 312 (2.6%) of genes in pham
• Manual Annotations of this start: 5 of 286
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Dorin_90 (CG), Francesca_90 (CG), NiceHouse_103 (CE), Trina_116 (CE), Trogglehumper_29 (singleton),

Start 31:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nova53_86 (CG),

Start 34:
• Found in 8 of 312 (2.6%) of genes in pham

• Manual Annotations of this start: 1 of 286
• Called 12.5% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_175 (DO),

Start 37:
• Found in 1 of 312 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DocB7_003 (singleton),

Start 42:
• Found in 85 of 312 (27.2%) of genes in pham
• Manual Annotations of this start: 77 of 286
• Called 95.3% of time when present
• Phage (with cluster) where this start called: ASerpRocky_10 (CS4), Adgers_11 (CS2), Amore2_11 (CS1), Anamika_7 (CS3), Barbochs_10 (CS2), Beaver_10 (CS2), Benczkowski14_10 (CS4), BenoitCattle_10 (CS2), Berries_7 (CS3), Bianmat_7 (CS3), BigShaq_10 (CS2), BillyBobJr_11 (CS2), BirksAndSocks_10 (CS2), Boneham_10 (CS2), Breezic_10 (CS2), Butterball_10 (CS2), CathyBurgh_10 (CS2), Charianelly_7 (CS3), Chelms_10 (CS2), CinnamonToast_11 (CS2), Crete_11 (CS2), Dakiti_10 (CS2), Damp_7 (CS3), Demosthenes_10 (CS4), Diabla_9 (CS2), Eggsie_10 (CS2), Ekhein_10 (CS2), Exiguo_10 (CS2), FelixAlejandro_11 (CS2), Flakey_10 (CS2), GMA7_2 (CS1), GalacticEye_7 (CS3), Gorko_10 (CS2), GourdThymes_10 (CS2), Guillaume_7 (CS3), Hail2Pitt_7 (CS3), Harambe_7 (CS3), HayZem_11 (CS1), Hello_7 (CS3), Hollow_10 (CS4), Hotorobo_10 (CS2), Jams_7 (CS3), Jellybones_10 (CS2), John316_10 (CS2), Jormungandr_7 (CS3), Kaseim_7 (CS3), Katyusha_10 (CS4), Kelzog_10 (CS2), Kvothe_10 (CS4), Lahirium_7 (CS3), Lidong_7 (CS3), Linetti_11 (CS2), Lizzo_10 (CS2), Luker_7 (CS3), Minos_7 (CS3), Monty_9 (CS2), MrWormie_7 (CS3), Msay19_11 (CS2), Neoevie_7 (CS3), Newt_7 (CS3), Niagara_10 (CS4), Nimi13_7 (CS3), Philon9_10 (CS4), PierreThree_10 (CS2), PokyPuppy_9 (CS2), Poland_11 (CS2), RemRem_10 (CS2), RoyalG_11 (CS2), Sam12_10 (CS2), Shelley_7 (CS3), Sombrero_10 (CS2), Squibbles_10 (CS2), SteveFrench_9 (CS2), Sticker17_7 (CS3), Teal_7 (CS3), Teatealatte_10 (CS4), Teech_10 (CS4), Tredge_10 (CS4), Vitaenoii_10 (CS4), Woes_7 (CS3), Worcestershire_10 (CS2),

Start 49:
• Found in 117 of 312 (37.5%) of genes in pham
• Manual Annotations of this start: 1 of 286
• Called 1.7% of time when present
• Phage (with cluster) where this start called: Austin_11 (CS1), GTE7_2 (CS1),

Summary by clusters:

There are 20 clusters represented in this pham: DO, singleton, CH, DX, DF3, CB, CG, CE, CX, BK1, BK2, C2, BE2, CS4, C1, BE1, CS1, DF4, CS3, CS2,

Info for manual annotations of cluster BE1:
•Start number 29 was manually annotated 49 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 27 was manually annotated 13 times for cluster BE2.
•Start number 29 was manually annotated 22 times for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 22 was manually annotated 4 times for cluster BK1.
•Start number 24 was manually annotated 4 times for cluster BK1.
•Start number 27 was manually annotated 9 times for cluster BK1.
•Start number 28 was manually annotated 1 time for cluster BK1.
•Start number 29 was manually annotated 6 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 29 was manually annotated 5 times for cluster BK2.

Info for manual annotations of cluster C1:
•Start number 16 was manually annotated 64 times for cluster C1.
•Start number 19 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:
•Start number 12 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CB:
•Start number 29 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:
•Start number 30 was manually annotated 2 times for cluster CE.

Info for manual annotations of cluster CG:
•Start number 30 was manually annotated 2 times for cluster CG.
•Start number 31 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CH:
•Start number 23 was manually annotated 2 times for cluster CH.

Info for manual annotations of cluster CS1:
•Start number 42 was manually annotated 2 times for cluster CS1.
•Start number 49 was manually annotated 1 time for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 42 was manually annotated 38 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 42 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CS4:
•Start number 42 was manually annotated 12 times for cluster CS4.

Info for manual annotations of cluster CX:
•Start number 10 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster DF3:
•Start number 8 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:
•Start number 7 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DO:
•Start number 17 was manually annotated 1 time for cluster DO.
•Start number 18 was manually annotated 2 times for cluster DO.
•Start number 34 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster DX:
•Start number 13 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: ASerpRocky_10 Start: 8735, Stop: 10702, Start Num: 42
Candidate Starts for ASerpRocky_10:
(Start: 42 @8735 has 77 MA's), (48, 8759), (56, 8792), (74, 8849), (78, 8864), (90, 8933), (98, 8993), (99, 8996), (110, 9068), (111, 9071), (112, 9074), (131, 9194), (135, 9221), (153, 9326), (174, 9443), (175, 9446), (182, 9485), (202, 9599), (204, 9611), (216, 9644), (220, 9665), (226, 9704), (236, 9767), (239, 9779), (255, 9863), (276, 9965), (290, 10031), (299, 10079), (308, 10130), (309, 10133), (311, 10157), (329, 10241), (339, 10286), (340, 10289), (350, 10340), (352, 10349), (360, 10400), (361, 10412), (364, 10421), (367, 10430), (372, 10454), (392, 10505), (435, 10631), (442, 10649), (443, 10652), (454, 10682),

Gene: AcciDwight_103 Start: 69216, Stop: 71036, Start Num: 29
Candidate Starts for AcciDwight_103:
(Start: 27 @69213 has 22 MA's), (Start: 29 @69216 has 86 MA's), (53, 69315), (54, 69321), (99, 69516), (101, 69525), (133, 69720), (156, 69864), (158, 69879), (203, 70104), (206, 70113), (227, 70197), (232, 70215), (253, 70338), (266, 70389), (269, 70404), (283, 70449), (284, 70452), (287, 70464), (305, 70545), (313, 70608), (320, 70644), (329, 70677), (350, 70749), (352, 70758), (360, 70803), (412, 70959), (421, 70989),

Gene: Adgers_11 Start: 7240, Stop: 9213, Start Num: 42
Candidate Starts for Adgers_11:
(39, 7222), (Start: 42 @7240 has 77 MA's), (Start: 49 @7267 has 1 MA's), (74, 7354), (78, 7369), (80, 7378), (85, 7402), (98, 7498), (99, 7501), (108, 7561), (110, 7573), (111, 7576), (112, 7579), (131, 7705), (135, 7732), (146, 7789), (166, 7915), (174, 7954), (183, 8002), (184, 8008), (205, 8125), (216, 8155), (248, 8341), (276, 8476), (295, 8569), (304, 8608), (308, 8641), (315, 8686), (325, 8722), (337, 8785), (338, 8791), (339, 8797), (340, 8800), (365, 8935), (369, 8947), (415, 9070), (443, 9169), (456, 9205),

Gene: Adlitam_253 Start: 145825, Stop: 148041, Start Num: 16
Candidate Starts for Adlitam_253:
(2, 145543), (Start: 16 @145825 has 64 MA's), (35, 145891), (45, 145933), (51, 145957), (55, 145975), (64, 146014), (78, 146086), (82, 146101), (91, 146158), (93, 146164), (95, 146191), (105, 146266), (108, 146278), (121, 146353), (122, 146356), (134, 146464), (147, 146548), (150, 146575), (162, 146662), (196, 146836), (199, 146860), (211, 146917), (227, 147004), (244, 147112), (257, 147172), (286, 147283), (289, 147295), (292, 147304), (299, 147346), (309, 147403), (334, 147535), (338, 147550), (359, 147673), (361, 147700), (362, 147703), (363, 147706), (364, 147709), (379, 147766), (398, 147814), (421, 147874), (425, 147883), (457, 147994),

Gene: Amabiko_100 Start: 69258, Stop: 71081, Start Num: 27
Candidate Starts for Amabiko_100:
(Start: 27 @69258 has 22 MA's), (Start: 29 @69261 has 86 MA's), (53, 69360), (54, 69366), (99, 69561), (101, 69570), (133, 69765), (156, 69909), (158, 69924), (206, 70158), (227, 70242), (232,

70260), (253, 70383), (266, 70434), (269, 70449), (283, 70494), (284, 70497), (287, 70509), (305, 70590), (313, 70653), (320, 70689), (329, 70722), (350, 70794), (352, 70803), (360, 70848), (412, 71004), (421, 71034),

Gene: Amore2_11 Start: 7303, Stop: 9270, Start Num: 42
Candidate Starts for Amore2_11:
(20, 7219), (Start: 42 @7303 has 77 MA's), (Start: 49 @7330 has 1 MA's), (56, 7360), (78, 7432), (98, 7561), (110, 7636), (111, 7639), (112, 7642), (129, 7756), (131, 7768), (174, 8017), (175, 8020), (183, 8065), (184, 8071), (202, 8173), (214, 8215), (216, 8218), (220, 8239), (276, 8539), (289, 8602), (291, 8608), (322, 8779), (337, 8848), (339, 8860), (361, 8986), (389, 9076), (401, 9103), (415, 9121), (440, 9214), (449, 9235),

Gene: Anamika_7 Start: 6304, Stop: 8280, Start Num: 42
Candidate Starts for Anamika_7:
(41, 6298), (Start: 42 @6304 has 77 MA's), (56, 6361), (74, 6418), (78, 6433), (81, 6445), (98, 6562), (99, 6565), (110, 6637), (111, 6640), (112, 6643), (129, 6757), (131, 6769), (135, 6796), (160, 6955), (166, 6979), (174, 7018), (184, 7072), (202, 7174), (216, 7219), (220, 7240), (256, 7453), (276, 7540), (339, 7861), (340, 7864), (350, 7915), (365, 7999), (369, 8011), (382, 8062), (396, 8095), (415, 8137), (458, 8275),

Gene: Anedea_96 Start: 68528, Stop: 70348, Start Num: 29
Candidate Starts for Anedea_96:
(Start: 29 @68528 has 86 MA's), (38, 68561), (54, 68633), (61, 68642), (100, 68834), (156, 69176), (158, 69191), (201, 69407), (206, 69425), (232, 69527), (253, 69650), (283, 69761), (305, 69857), (313, 69920), (325, 69965), (329, 69989), (336, 70019), (344, 70037), (348, 70052), (352, 70070), (360, 70115), (420, 70298), (421, 70301),

Gene: Angela_94 Start: 67997, Stop: 69817, Start Num: 29
Candidate Starts for Angela_94:
(Start: 29 @67997 has 86 MA's), (Start: 49 @68078 has 1 MA's), (54, 68102), (61, 68111), (100, 68303), (102, 68309), (156, 68645), (203, 68885), (206, 68894), (232, 68996), (238, 69041), (253, 69119), (283, 69230), (305, 69326), (329, 69458), (336, 69488), (344, 69506), (348, 69521), (352, 69539), (360, 69584), (412, 69740), (420, 69767), (421, 69770),

Gene: AngryGiraffe_99 Start: 69198, Stop: 71021, Start Num: 27
Candidate Starts for AngryGiraffe_99:
(Start: 27 @69198 has 22 MA's), (Start: 29 @69201 has 86 MA's), (53, 69300), (54, 69306), (101, 69510), (156, 69849), (182, 69975), (203, 70089), (232, 70200), (249, 70308), (253, 70323), (266, 70374), (284, 70437), (288, 70452), (290, 70461), (305, 70530), (313, 70593), (325, 70638), (336, 70692), (352, 70743), (360, 70788), (365, 70812), (384, 70881), (421, 70974),

Gene: Annadreamy_86 Start: 62315, Stop: 64135, Start Num: 24
Candidate Starts for Annadreamy_86:
(21, 62303), (Start: 24 @62315 has 4 MA's), (Start: 28 @62324 has 1 MA's), (36, 62354), (53, 62423), (88, 62549), (102, 62636), (156, 62972), (203, 63212), (221, 63272), (232, 63323), (258, 63464), (261, 63479), (269, 63512), (282, 63548), (288, 63575), (313, 63716), (325, 63761), (331, 63791), (345, 63836), (349, 63851), (352, 63866), (360, 63911), (383, 63995), (403, 64049), (421, 64088),

Gene: ArianaSWT_97 Start: 69000, Stop: 70820, Start Num: 29
Candidate Starts for ArianaSWT_97:
(Start: 29 @69000 has 86 MA's), (38, 69033), (Start: 49 @69081 has 1 MA's), (54, 69105), (61, 69114), (93, 69246), (100, 69306), (156, 69648), (206, 69897), (232, 69999), (238, 70044), (283, 70233), (287, 70248), (305, 70329), (309, 70359), (313, 70392), (325, 70437), (329, 70461), (336, 70491), (344,

70509), (348, 70524), (352, 70542), (360, 70587), (401, 70722), (415, 70752), (421, 70773),

Gene: Asterius_254 Start: 145682, Stop: 147898, Start Num: 16
Candidate Starts for Asterius_254:
(2, 145400), (Start: 16 @145682 has 64 MA's), (35, 145748), (45, 145790), (51, 145814), (55, 145832), (64, 145871), (78, 145943), (82, 145958), (91, 146015), (93, 146021), (95, 146048), (105, 146123), (108, 146135), (121, 146210), (122, 146213), (134, 146321), (147, 146405), (150, 146432), (162, 146519), (196, 146693), (199, 146717), (211, 146774), (227, 146861), (244, 146969), (257, 147029), (286, 147140), (289, 147152), (292, 147161), (299, 147203), (309, 147260), (334, 147392), (338, 147407), (359, 147530), (361, 147557), (362, 147560), (363, 147563), (364, 147566), (379, 147623), (398, 147671), (421, 147731), (425, 147740), (457, 147851),

Gene: Austin_11 Start: 7330, Stop: 9270, Start Num: 49
Candidate Starts for Austin_11:
(20, 7219), (Start: 42 @7303 has 77 MA's), (Start: 49 @7330 has 1 MA's), (56, 7360), (78, 7432), (98, 7561), (110, 7636), (111, 7639), (112, 7642), (129, 7756), (131, 7768), (174, 8017), (175, 8020), (183, 8065), (184, 8071), (202, 8173), (214, 8215), (216, 8218), (220, 8239), (276, 8539), (289, 8602), (291, 8608), (337, 8848), (339, 8860), (361, 8986), (389, 9076), (401, 9103), (415, 9121), (440, 9214), (449, 9235),

Gene: Ava3_250 Start: 145284, Stop: 147500, Start Num: 16
Candidate Starts for Ava3_250:
(2, 145002), (Start: 16 @145284 has 64 MA's), (35, 145350), (45, 145392), (51, 145416), (55, 145434), (64, 145473), (78, 145545), (82, 145560), (91, 145617), (93, 145623), (95, 145650), (105, 145725), (108, 145737), (121, 145812), (122, 145815), (134, 145923), (147, 146007), (150, 146034), (162, 146121), (196, 146295), (199, 146319), (211, 146376), (227, 146463), (244, 146571), (257, 146631), (286, 146742), (289, 146754), (292, 146763), (299, 146805), (309, 146862), (334, 146994), (338, 147009), (359, 147132), (361, 147159), (362, 147162), (363, 147165), (364, 147168), (379, 147225), (398, 147273), (421, 147333), (425, 147342), (457, 147453),

Gene: Bangla1971_254 Start: 145533, Stop: 147749, Start Num: 16
Candidate Starts for Bangla1971_254:
(2, 145251), (Start: 16 @145533 has 64 MA's), (35, 145599), (45, 145641), (51, 145665), (55, 145683), (64, 145722), (78, 145794), (82, 145809), (91, 145866), (93, 145872), (95, 145899), (105, 145974), (108, 145986), (121, 146061), (122, 146064), (134, 146172), (147, 146256), (150, 146283), (162, 146370), (196, 146544), (199, 146568), (211, 146625), (227, 146712), (244, 146820), (257, 146880), (286, 146991), (289, 147003), (292, 147012), (299, 147054), (309, 147111), (334, 147243), (338, 147258), (359, 147381), (361, 147408), (362, 147411), (363, 147414), (364, 147417), (379, 147474), (398, 147522), (421, 147582), (425, 147591), (457, 147702),

Gene: Barbochs_10 Start: 7075, Stop: 9048, Start Num: 42
Candidate Starts for Barbochs_10:
(39, 7057), (Start: 42 @7075 has 77 MA's), (Start: 49 @7102 has 1 MA's), (74, 7189), (78, 7204), (80, 7213), (85, 7237), (98, 7333), (99, 7336), (108, 7396), (110, 7408), (111, 7411), (112, 7414), (131, 7540), (135, 7567), (166, 7750), (174, 7789), (183, 7837), (184, 7843), (205, 7960), (216, 7990), (248, 8176), (276, 8311), (295, 8404), (304, 8443), (308, 8476), (315, 8521), (325, 8557), (337, 8620), (338, 8626), (339, 8632), (340, 8635), (345, 8665), (365, 8770), (369, 8782), (415, 8905), (443, 9004), (456, 9040),

Gene: Bartholomune_95 Start: 68422, Stop: 70242, Start Num: 29
Candidate Starts for Bartholomune_95:
(Start: 29 @68422 has 86 MA's), (38, 68455), (Start: 49 @68503 has 1 MA's), (54, 68527), (61, 68536), (101, 68731), (145, 68989), (156, 69070), (232, 69421), (253, 69544), (283, 69655), (305, 69751),

(313, 69814), (325, 69859), (329, 69883), (349, 69949), (352, 69964), (360, 70009), (401, 70144), (412, 70165), (420, 70192), (421, 70195),

Gene: Battuta_98 Start: 69235, Stop: 71055, Start Num: 29
Candidate Starts for Battuta_98:
(Start: 27 @69232 has 22 MA's), (Start: 29 @69235 has 86 MA's), (53, 69334), (54, 69340), (99, 69535), (101, 69544), (133, 69739), (156, 69883), (158, 69898), (206, 70132), (227, 70216), (232, 70234), (253, 70357), (266, 70408), (269, 70423), (283, 70468), (284, 70471), (287, 70483), (305, 70564), (313, 70627), (320, 70663), (329, 70696), (350, 70768), (352, 70777), (360, 70822), (412, 70978), (421, 71008),

Gene: BeanWater_246 Start: 144669, Stop: 146885, Start Num: 16
Candidate Starts for BeanWater_246:
(2, 144387), (Start: 16 @144669 has 64 MA's), (35, 144735), (45, 144777), (51, 144801), (55, 144819), (64, 144858), (78, 144930), (82, 144945), (91, 145002), (93, 145008), (95, 145035), (105, 145110), (108, 145122), (121, 145197), (122, 145200), (134, 145308), (147, 145392), (150, 145419), (162, 145506), (196, 145680), (199, 145704), (211, 145761), (227, 145848), (244, 145956), (257, 146016), (286, 146127), (289, 146139), (292, 146148), (299, 146190), (309, 146247), (334, 146379), (338, 146394), (359, 146517), (361, 146544), (362, 146547), (363, 146550), (364, 146553), (379, 146610), (398, 146658), (421, 146718), (425, 146727), (457, 146838),

Gene: Beaver_10 Start: 7086, Stop: 9059, Start Num: 42
Candidate Starts for Beaver_10:
(39, 7068), (Start: 42 @7086 has 77 MA's), (Start: 49 @7113 has 1 MA's), (74, 7200), (78, 7215), (80, 7224), (85, 7248), (98, 7344), (99, 7347), (108, 7407), (110, 7419), (111, 7422), (112, 7425), (131, 7551), (135, 7578), (146, 7635), (166, 7761), (174, 7800), (183, 7848), (184, 7854), (205, 7971), (216, 8001), (248, 8187), (276, 8322), (295, 8415), (304, 8454), (308, 8487), (315, 8532), (325, 8568), (337, 8631), (338, 8637), (339, 8643), (340, 8646), (345, 8676), (365, 8781), (369, 8793), (415, 8916), (443, 9015), (456, 9051),

Gene: Belfort_90 Start: 64146, Stop: 65960, Start Num: 27
Candidate Starts for Belfort_90:
(Start: 27 @64146 has 22 MA's), (36, 64179), (79, 64323), (81, 64332), (88, 64374), (99, 64449), (101, 64458), (156, 64797), (167, 64848), (221, 65097), (232, 65148), (282, 65373), (287, 65397), (288, 65400), (313, 65541), (316, 65565), (331, 65616), (344, 65658), (352, 65691), (379, 65811), (403, 65874), (421, 65913),

Gene: Benczkowski14_10 Start: 8798, Stop: 10765, Start Num: 42
Candidate Starts for Benczkowski14_10:
(Start: 42 @8798 has 77 MA's), (48, 8822), (56, 8855), (78, 8927), (90, 8996), (98, 9056), (99, 9059), (103, 9077), (110, 9131), (111, 9134), (112, 9137), (131, 9257), (135, 9284), (149, 9365), (153, 9389), (174, 9506), (175, 9509), (182, 9548), (202, 9662), (216, 9707), (220, 9728), (226, 9767), (236, 9830), (239, 9842), (255, 9926), (276, 10028), (290, 10094), (299, 10142), (308, 10193), (309, 10196), (311, 10220), (329, 10304), (339, 10349), (340, 10352), (360, 10463), (361, 10475), (367, 10493), (372, 10517), (392, 10568), (398, 10580), (409, 10607), (435, 10694), (443, 10715), (454, 10745),

Gene: BenoitCattle_10 Start: 7067, Stop: 9043, Start Num: 42
Candidate Starts for BenoitCattle_10:
(Start: 42 @7067 has 77 MA's), (Start: 49 @7094 has 1 MA's), (74, 7181), (78, 7196), (85, 7229), (98, 7325), (99, 7328), (110, 7400), (111, 7403), (112, 7406), (131, 7532), (135, 7559), (166, 7742), (174, 7781), (184, 7835), (205, 7952), (216, 7982), (248, 8168), (276, 8303), (295, 8396), (304, 8435), (308, 8468), (309, 8471), (337, 8612), (338, 8618), (339, 8624), (340, 8627), (345, 8657), (350, 8678), (352, 8687), (365, 8762), (369, 8774), (392, 8849), (394, 8852), (415, 8900), (436, 8981), (456, 9035),

Gene: Berries_7 Start: 6288, Stop: 8264, Start Num: 42
Candidate Starts for Berries_7:
(41, 6282), (Start: 42 @6288 has 77 MA's), (56, 6345), (74, 6402), (78, 6417), (81, 6429), (98, 6546), (99, 6549), (110, 6621), (111, 6624), (112, 6627), (129, 6741), (131, 6753), (146, 6837), (160, 6939), (166, 6963), (174, 7002), (184, 7056), (202, 7158), (216, 7203), (220, 7224), (256, 7437), (276, 7524), (337, 7833), (339, 7845), (340, 7848), (350, 7899), (352, 7908), (365, 7983), (369, 7995), (370, 8001), (382, 8046), (396, 8079), (415, 8121), (446, 8229), (458, 8259),

Gene: Beuffert_85 Start: 62865, Stop: 64685, Start Num: 24
Candidate Starts for Beuffert_85:
(21, 62853), (Start: 24 @62865 has 4 MA's), (Start: 28 @62874 has 1 MA's), (36, 62904), (53, 62973), (88, 63099), (99, 63174), (101, 63183), (102, 63186), (156, 63522), (203, 63762), (219, 63819), (221, 63822), (232, 63873), (258, 64014), (261, 64029), (282, 64098), (288, 64125), (313, 64266), (325, 64311), (331, 64341), (345, 64386), (349, 64401), (352, 64416), (360, 64461), (383, 64545), (397, 64581), (421, 64638),

Gene: Bezza_247 Start: 144362, Stop: 146578, Start Num: 16
Candidate Starts for Bezza_247:
(2, 144080), (Start: 16 @144362 has 64 MA's), (35, 144428), (45, 144470), (51, 144494), (55, 144512), (64, 144551), (78, 144623), (82, 144638), (91, 144695), (93, 144701), (95, 144728), (105, 144803), (108, 144815), (121, 144890), (122, 144893), (134, 145001), (147, 145085), (150, 145112), (162, 145199), (196, 145373), (199, 145397), (211, 145454), (227, 145541), (244, 145649), (257, 145709), (286, 145820), (289, 145832), (292, 145841), (299, 145883), (309, 145940), (334, 146072), (338, 146087), (359, 146210), (361, 146237), (362, 146240), (363, 146243), (364, 146246), (379, 146303), (398, 146351), (421, 146411), (425, 146420), (457, 146531),

Gene: Bianmat_7 Start: 6311, Stop: 8287, Start Num: 42
Candidate Starts for Bianmat_7:
(41, 6305), (Start: 42 @6311 has 77 MA's), (56, 6368), (74, 6425), (78, 6440), (81, 6452), (98, 6569), (99, 6572), (110, 6644), (111, 6647), (112, 6650), (129, 6764), (131, 6776), (135, 6803), (160, 6962), (166, 6986), (174, 7025), (184, 7079), (202, 7181), (216, 7226), (220, 7247), (256, 7460), (276, 7547), (290, 7613), (337, 7856), (339, 7868), (340, 7871), (350, 7922), (352, 7931), (365, 8006), (369, 8018), (370, 8024), (382, 8069), (396, 8102), (415, 8144), (446, 8252), (458, 8282),

Gene: BigCity_261 Start: 147424, Stop: 149640, Start Num: 16
Candidate Starts for BigCity_261:
(2, 147142), (Start: 16 @147424 has 64 MA's), (35, 147490), (45, 147532), (51, 147556), (55, 147574), (64, 147613), (78, 147685), (82, 147700), (91, 147757), (93, 147763), (95, 147790), (105, 147865), (108, 147877), (121, 147952), (122, 147955), (134, 148063), (147, 148147), (150, 148174), (162, 148261), (196, 148435), (199, 148459), (211, 148516), (227, 148603), (244, 148711), (257, 148771), (286, 148882), (289, 148894), (292, 148903), (299, 148945), (309, 149002), (336, 149140), (338, 149149), (359, 149272), (361, 149299), (362, 149302), (363, 149305), (364, 149308), (379, 149365), (398, 149413), (421, 149473), (425, 149482), (457, 149593),

Gene: BigShaq_10 Start: 7069, Stop: 9045, Start Num: 42
Candidate Starts for BigShaq_10:
(Start: 42 @7069 has 77 MA's), (Start: 49 @7096 has 1 MA's), (74, 7183), (78, 7198), (85, 7231), (98, 7327), (99, 7330), (110, 7402), (111, 7405), (112, 7408), (131, 7534), (135, 7561), (146, 7618), (166, 7744), (174, 7783), (184, 7837), (205, 7954), (216, 7984), (248, 8170), (276, 8305), (304, 8437), (308, 8470), (309, 8473), (325, 8551), (337, 8614), (338, 8620), (339, 8626), (340, 8629), (345, 8659), (350, 8680), (352, 8689), (365, 8764), (369, 8776), (392, 8851), (394, 8854), (415, 8902), (456, 9037),

Gene: Bigswole_258 Start: 147335, Stop: 149551, Start Num: 16
Candidate Starts for Bigswole_258:
(2, 147053), (Start: 16 @147335 has 64 MA's), (35, 147401), (45, 147443), (51, 147467), (55, 147485), (64, 147524), (78, 147596), (82, 147611), (91, 147668), (93, 147674), (95, 147701), (105, 147776), (108, 147788), (121, 147863), (122, 147866), (134, 147974), (147, 148058), (150, 148085), (162, 148172), (196, 148346), (199, 148370), (211, 148427), (227, 148514), (244, 148622), (257, 148682), (286, 148793), (289, 148805), (292, 148814), (299, 148856), (309, 148913), (334, 149045), (338, 149060), (359, 149183), (361, 149210), (362, 149213), (363, 149216), (364, 149219), (379, 149276), (398, 149324), (421, 149384), (425, 149393), (457, 149504),

Gene: BillNye_77 Start: 63267, Stop: 65075, Start Num: 29
Candidate Starts for BillNye_77:
(Start: 29 @63267 has 86 MA's), (36, 63297), (Start: 49 @63348 has 1 MA's), (53, 63366), (81, 63450), (88, 63492), (99, 63567), (102, 63579), (124, 63723), (154, 63906), (156, 63915), (181, 64038), (221, 64215), (232, 64266), (242, 64341), (285, 64509), (287, 64515), (296, 64560), (313, 64659), (316, 64683), (331, 64734), (349, 64794), (352, 64809), (403, 64989), (421, 65028), (431, 65061),

Gene: BillyBobJr_11 Start: 7110, Stop: 9083, Start Num: 42
Candidate Starts for BillyBobJr_11:
(39, 7092), (Start: 42 @7110 has 77 MA's), (Start: 49 @7137 has 1 MA's), (74, 7224), (78, 7239), (80, 7248), (85, 7272), (98, 7368), (99, 7371), (103, 7389), (108, 7431), (110, 7443), (111, 7446), (112, 7449), (131, 7575), (135, 7602), (146, 7659), (166, 7785), (174, 7824), (183, 7872), (184, 7878), (205, 7995), (216, 8025), (248, 8211), (276, 8346), (295, 8439), (304, 8478), (308, 8511), (315, 8556), (325, 8592), (337, 8655), (338, 8661), (339, 8667), (340, 8670), (345, 8700), (365, 8805), (369, 8817), (415, 8940), (443, 9039), (456, 9075),

Gene: Bipolarisk_251 Start: 145552, Stop: 147768, Start Num: 16
Candidate Starts for Bipolarisk_251:
(2, 145270), (Start: 16 @145552 has 64 MA's), (35, 145618), (45, 145660), (51, 145684), (55, 145702), (64, 145741), (78, 145813), (82, 145828), (91, 145885), (93, 145891), (95, 145918), (105, 145993), (108, 146005), (121, 146080), (122, 146083), (134, 146191), (147, 146275), (150, 146302), (162, 146389), (196, 146563), (199, 146587), (211, 146644), (227, 146731), (244, 146839), (257, 146899), (286, 147010), (289, 147022), (292, 147031), (299, 147073), (309, 147130), (334, 147262), (338, 147277), (359, 147400), (361, 147427), (362, 147430), (363, 147433), (364, 147436), (379, 147493), (398, 147541), (421, 147601), (425, 147610), (457, 147721),

Gene: Birchlyn_97 Start: 67118, Stop: 68938, Start Num: 29
Candidate Starts for Birchlyn_97:
(Start: 27 @67115 has 22 MA's), (Start: 29 @67118 has 86 MA's), (53, 67217), (54, 67223), (99, 67418), (101, 67427), (133, 67622), (156, 67766), (158, 67781), (206, 68015), (227, 68099), (232, 68117), (253, 68240), (266, 68291), (269, 68306), (283, 68351), (284, 68354), (287, 68366), (305, 68447), (313, 68510), (320, 68546), (329, 68579), (348, 68642), (350, 68651), (352, 68660), (360, 68705), (412, 68861), (421, 68891),

Gene: BirksAndSocks_10 Start: 7075, Stop: 9048, Start Num: 42
Candidate Starts for BirksAndSocks_10:
(39, 7057), (Start: 42 @7075 has 77 MA's), (Start: 49 @7102 has 1 MA's), (74, 7189), (78, 7204), (80, 7213), (85, 7237), (98, 7333), (99, 7336), (108, 7396), (110, 7408), (111, 7411), (112, 7414), (131, 7540), (135, 7567), (146, 7624), (166, 7750), (174, 7789), (183, 7837), (184, 7843), (205, 7960), (216, 7990), (248, 8176), (276, 8311), (295, 8404), (304, 8443), (308, 8476), (315, 8521), (325, 8557), (337, 8620), (338, 8626), (339, 8632), (340, 8635), (345, 8665), (365, 8770), (369, 8782), (415, 8905), (443, 9004), (456, 9040),

Gene: BlueOtter_96 Start: 69037, Stop: 70857, Start Num: 29
Candidate Starts for BlueOtter_96:
(Start: 29 @69037 has 86 MA's), (38, 69070), (Start: 49 @69118 has 1 MA's), (54, 69142), (61, 69151), (93, 69283), (100, 69343), (156, 69685), (206, 69934), (232, 70036), (238, 70081), (283, 70270), (287, 70285), (305, 70366), (309, 70396), (313, 70429), (325, 70474), (329, 70498), (336, 70528), (344, 70546), (348, 70561), (352, 70579), (360, 70624), (401, 70759), (415, 70789), (421, 70810),

Gene: Blueeyedbeauty_87 Start: 62273, Stop: 64084, Start Num: 28
Candidate Starts for Blueeyedbeauty_87:
(21, 62252), (Start: 24 @62264 has 4 MA's), (Start: 28 @62273 has 1 MA's), (36, 62303), (44, 62336), (Start: 49 @62354 has 1 MA's), (53, 62372), (88, 62498), (99, 62573), (102, 62585), (133, 62777), (156, 62921), (158, 62936), (203, 63161), (219, 63218), (221, 63221), (232, 63272), (261, 63428), (269, 63461), (282, 63497), (288, 63524), (313, 63665), (325, 63710), (331, 63740), (345, 63785), (349, 63800), (352, 63815), (360, 63860), (397, 63980), (421, 64037),

Gene: Bmoc_95 Start: 68363, Stop: 70183, Start Num: 29
Candidate Starts for Bmoc_95:
(Start: 29 @68363 has 86 MA's), (38, 68396), (54, 68468), (61, 68477), (100, 68669), (134, 68873), (156, 69011), (158, 69026), (201, 69242), (206, 69260), (232, 69362), (253, 69485), (283, 69596), (322, 69794), (329, 69824), (336, 69854), (344, 69872), (348, 69887), (352, 69905), (360, 69950), (412, 70106), (421, 70136),

Gene: Boneham_10 Start: 7074, Stop: 9047, Start Num: 42
Candidate Starts for Boneham_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (90, 7272), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (135, 7566), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (216, 7989), (248, 8175), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: BoomerJR_100 Start: 69087, Stop: 70910, Start Num: 27
Candidate Starts for BoomerJR_100:
(Start: 27 @69087 has 22 MA's), (Start: 29 @69090 has 86 MA's), (53, 69189), (54, 69195), (101, 69399), (156, 69738), (203, 69978), (232, 70089), (249, 70197), (253, 70212), (266, 70263), (284, 70326), (288, 70341), (290, 70350), (305, 70419), (313, 70482), (325, 70527), (336, 70581), (352, 70632), (360, 70677), (365, 70701), (384, 70770), (421, 70863),

Gene: Bordeaux_98 Start: 69390, Stop: 71210, Start Num: 29
Candidate Starts for Bordeaux_98:
(Start: 27 @69387 has 22 MA's), (Start: 29 @69390 has 86 MA's), (53, 69489), (54, 69495), (99, 69690), (101, 69699), (133, 69894), (156, 70038), (158, 70053), (206, 70287), (227, 70371), (232, 70389), (253, 70512), (266, 70563), (269, 70578), (283, 70623), (284, 70626), (287, 70638), (305, 70719), (313, 70782), (320, 70818), (329, 70851), (350, 70923), (352, 70932), (360, 70977), (412, 71133), (421, 71163),

Gene: Braelyn_97 Start: 69186, Stop: 71006, Start Num: 29
Candidate Starts for Braelyn_97:
(Start: 29 @69186 has 86 MA's), (38, 69219), (Start: 49 @69267 has 1 MA's), (54, 69291), (61, 69300), (101, 69495), (145, 69753), (156, 69834), (232, 70185), (253, 70308), (283, 70419), (305, 70515), (313, 70578), (325, 70623), (329, 70647), (349, 70713), (352, 70728), (360, 70773), (401, 70908), (412, 70929), (420, 70956), (421, 70959),

Gene: Bread_250 Start: 145336, Stop: 147552, Start Num: 16
Candidate Starts for Bread_250:
(2, 145054), (Start: 16 @145336 has 64 MA's), (35, 145402), (45, 145444), (51, 145468), (55, 145486), (64, 145525), (78, 145597), (82, 145612), (91, 145669), (93, 145675), (95, 145702), (105, 145777), (108, 145789), (121, 145864), (122, 145867), (134, 145975), (147, 146059), (150, 146086), (162, 146173), (196, 146347), (199, 146371), (211, 146428), (227, 146515), (244, 146623), (257, 146683), (286, 146794), (289, 146806), (292, 146815), (299, 146857), (309, 146914), (334, 147046), (338, 147061), (359, 147184), (361, 147211), (362, 147214), (363, 147217), (364, 147220), (379, 147277), (398, 147325), (421, 147385), (425, 147394), (457, 147505),

Gene: Breezic_10 Start: 7086, Stop: 9059, Start Num: 42
Candidate Starts for Breezic_10:
(39, 7068), (Start: 42 @7086 has 77 MA's), (Start: 49 @7113 has 1 MA's), (74, 7200), (78, 7215), (80, 7224), (85, 7248), (90, 7284), (98, 7344), (99, 7347), (108, 7407), (110, 7419), (111, 7422), (112, 7425), (131, 7551), (135, 7578), (146, 7635), (166, 7761), (174, 7800), (183, 7848), (184, 7854), (205, 7971), (216, 8001), (248, 8187), (276, 8322), (295, 8415), (304, 8454), (308, 8487), (315, 8532), (337, 8631), (338, 8637), (339, 8643), (340, 8646), (345, 8676), (365, 8781), (369, 8793), (415, 8916), (443, 9015), (456, 9051),

Gene: Brizzy_99 Start: 68906, Stop: 70729, Start Num: 27
Candidate Starts for Brizzy_99:
(Start: 27 @68906 has 22 MA's), (Start: 29 @68909 has 86 MA's), (53, 69008), (54, 69014), (99, 69209), (101, 69218), (133, 69413), (156, 69557), (158, 69572), (206, 69806), (227, 69890), (232, 69908), (253, 70031), (266, 70082), (269, 70097), (284, 70145), (287, 70157), (305, 70238), (313, 70301), (320, 70337), (329, 70370), (350, 70442), (352, 70451), (360, 70496), (365, 70520), (412, 70652), (421, 70682),

Gene: Burrough_254 Start: 146697, Stop: 148913, Start Num: 16
Candidate Starts for Burrough_254:
(2, 146415), (Start: 16 @146697 has 64 MA's), (35, 146763), (45, 146805), (51, 146829), (55, 146847), (64, 146886), (78, 146958), (82, 146973), (91, 147030), (93, 147036), (95, 147063), (105, 147138), (108, 147150), (121, 147225), (122, 147228), (134, 147336), (147, 147420), (150, 147447), (162, 147534), (196, 147708), (199, 147732), (211, 147789), (227, 147876), (244, 147984), (257, 148044), (286, 148155), (289, 148167), (292, 148176), (299, 148218), (309, 148275), (334, 148407), (338, 148422), (359, 148545), (361, 148572), (362, 148575), (363, 148578), (364, 148581), (379, 148638), (398, 148686), (421, 148746), (425, 148755), (457, 148866),

Gene: Butterball_10 Start: 7074, Stop: 9047, Start Num: 42
Candidate Starts for Butterball_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (90, 7272), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (135, 7566), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (216, 7989), (248, 8175), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: Bxz1_239 Start: 146901, Stop: 149117, Start Num: 16
Candidate Starts for Bxz1_239:
(2, 146619), (Start: 16 @146901 has 64 MA's), (35, 146967), (45, 147009), (51, 147033), (55, 147051), (64, 147090), (78, 147162), (82, 147177), (91, 147234), (93, 147240), (95, 147267), (105, 147342), (108, 147354), (121, 147429), (122, 147432), (134, 147540), (147, 147624), (150, 147651), (162, 147738), (196, 147912), (199, 147936), (211, 147993), (227, 148080), (244, 148188), (257, 148248), (286, 148359), (289, 148371), (292, 148380), (299, 148422), (309, 148479), (334, 148611), (338,

148626), (359, 148749), (361, 148776), (362, 148779), (363, 148782), (364, 148785), (379, 148842), (398, 148890), (421, 148950), (425, 148959), (457, 149070),

Gene: Cadmus_94 Start: 67975, Stop: 69795, Start Num: 29
Candidate Starts for Cadmus_94:
(Start: 29 @67975 has 86 MA's), (54, 68080), (61, 68089), (92, 68218), (101, 68284), (110, 68347), (144, 68539), (156, 68623), (158, 68638), (194, 68815), (206, 68872), (232, 68974), (258, 69115), (266, 69148), (284, 69211), (288, 69226), (305, 69304), (313, 69367), (325, 69412), (329, 69436), (344, 69484), (348, 69499), (352, 69517), (360, 69562), (402, 69700), (412, 69718), (420, 69745), (421, 69748),

Gene: Camerico_10 Start: 8109, Stop: 10193, Start Num: 7
Candidate Starts for Camerico_10:
(Start: 7 @8109 has 1 MA's), (38, 8229), (43, 8253), (59, 8322), (65, 8349), (73, 8391), (90, 8481), (94, 8502), (97, 8532), (101, 8553), (110, 8616), (112, 8622), (129, 8727), (142, 8811), (143, 8814), (158, 8916), (164, 8946), (170, 8967), (174, 8988), (186, 9048), (233, 9264), (235, 9285), (245, 9339), (260, 9411), (263, 9423), (273, 9462), (275, 9468), (276, 9474), (280, 9495), (287, 9528), (293, 9549), (298, 9579), (308, 9639), (309, 9642), (318, 9705), (325, 9720), (335, 9777), (339, 9795), (361, 9921), (364, 9930), (369, 9945), (371, 9954), (410, 10062),

Gene: Caravan_243 Start: 145598, Stop: 147814, Start Num: 16
Candidate Starts for Caravan_243:
(2, 145316), (Start: 16 @145598 has 64 MA's), (35, 145664), (45, 145706), (51, 145730), (55, 145748), (64, 145787), (78, 145859), (82, 145874), (91, 145931), (93, 145937), (95, 145964), (105, 146039), (108, 146051), (121, 146126), (122, 146129), (134, 146237), (147, 146321), (150, 146348), (162, 146435), (196, 146609), (199, 146633), (211, 146690), (227, 146777), (244, 146885), (257, 146945), (286, 147056), (289, 147068), (292, 147077), (299, 147119), (309, 147176), (334, 147308), (338, 147323), (359, 147446), (361, 147473), (362, 147476), (363, 147479), (364, 147482), (379, 147539), (398, 147587), (421, 147647), (425, 147656), (457, 147767),

Gene: CathyBurgh_10 Start: 7074, Stop: 9047, Start Num: 42
Candidate Starts for CathyBurgh_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (135, 7566), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (216, 7989), (248, 8175), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: CeilingFan_99 Start: 69147, Stop: 70970, Start Num: 27
Candidate Starts for CeilingFan_99:
(Start: 27 @69147 has 22 MA's), (Start: 29 @69150 has 86 MA's), (53, 69249), (54, 69255), (99, 69450), (101, 69459), (133, 69654), (156, 69798), (158, 69813), (206, 70047), (227, 70131), (232, 70149), (253, 70272), (266, 70323), (269, 70338), (283, 70383), (284, 70386), (287, 70398), (305, 70479), (313, 70542), (320, 70578), (329, 70611), (350, 70683), (352, 70692), (360, 70737), (412, 70893), (421, 70923),

Gene: Chaewon_81 Start: 63208, Stop: 65016, Start Num: 29
Candidate Starts for Chaewon_81:
(Start: 29 @63208 has 86 MA's), (36, 63238), (Start: 49 @63289 has 1 MA's), (53, 63307), (81, 63391), (88, 63433), (99, 63508), (102, 63520), (124, 63664), (156, 63856), (181, 63979), (221, 64156), (232, 64207), (242, 64282), (258, 64348), (285, 64450), (287, 64456), (296, 64501), (313, 64600), (316, 64624), (325, 64645), (331, 64675), (335, 64696), (349, 64735), (352, 64750), (373, 64852), (384,

64888), (403, 64930), (421, 64969), (431, 65002),

Gene: Charianelly_7 Start: 6299, Stop: 8275, Start Num: 42
Candidate Starts for Charianelly_7:
(41, 6293), (Start: 42 @6299 has 77 MA's), (56, 6356), (74, 6413), (78, 6428), (81, 6440), (98, 6557), (99, 6560), (110, 6632), (111, 6635), (112, 6638), (129, 6752), (131, 6764), (146, 6848), (160, 6950), (166, 6974), (174, 7013), (184, 7067), (202, 7169), (216, 7214), (220, 7235), (256, 7448), (276, 7535), (337, 7844), (339, 7856), (340, 7859), (350, 7910), (352, 7919), (365, 7994), (369, 8006), (370, 8012), (382, 8057), (396, 8090), (415, 8132), (446, 8240), (458, 8270),

Gene: Chelms_10 Start: 7069, Stop: 9045, Start Num: 42
Candidate Starts for Chelms_10:
(Start: 42 @7069 has 77 MA's), (Start: 49 @7096 has 1 MA's), (74, 7183), (78, 7198), (85, 7231), (98, 7327), (99, 7330), (110, 7402), (111, 7405), (112, 7408), (131, 7534), (135, 7561), (166, 7744), (174, 7783), (184, 7837), (205, 7954), (216, 7984), (248, 8170), (276, 8305), (295, 8398), (304, 8437), (308, 8470), (337, 8614), (338, 8620), (339, 8626), (340, 8629), (345, 8659), (350, 8680), (352, 8689), (365, 8764), (369, 8776), (392, 8851), (415, 8902), (436, 8983), (456, 9037),

Gene: CherryTomatoes_175 Start: 126776, Stop: 128935, Start Num: 34
Candidate Starts for CherryTomatoes_175:
(3, 126554), (4, 126557), (5, 126581), (Start: 18 @126731 has 2 MA's), (32, 126767), (Start: 34 @126776 has 1 MA's), (52, 126845), (64, 126899), (69, 126920), (78, 126971), (92, 127046), (93, 127049), (101, 127112), (107, 127160), (110, 127175), (121, 127238), (132, 127334), (134, 127349), (149, 127451), (150, 127460), (152, 127466), (162, 127547), (173, 127586), (180, 127622), (184, 127652), (197, 127733), (200, 127748), (213, 127802), (227, 127886), (230, 127895), (241, 127979), (242, 127982), (244, 127991), (250, 128021), (251, 128024), (271, 128123), (286, 128246), (299, 128309), (307, 128357), (319, 128432), (323, 128441), (363, 128660), (366, 128669), (401, 128780), (411, 128798), (420, 128822), (421, 128825), (433, 128864), (442, 128897),

Gene: CinnamonToast_11 Start: 7110, Stop: 9083, Start Num: 42
Candidate Starts for CinnamonToast_11:
(39, 7092), (Start: 42 @7110 has 77 MA's), (Start: 49 @7137 has 1 MA's), (74, 7224), (78, 7239), (80, 7248), (85, 7272), (98, 7368), (99, 7371), (103, 7389), (108, 7431), (110, 7443), (111, 7446), (112, 7449), (131, 7575), (135, 7602), (146, 7659), (166, 7785), (174, 7824), (183, 7872), (184, 7878), (205, 7995), (216, 8025), (248, 8211), (276, 8346), (295, 8439), (304, 8478), (308, 8511), (315, 8556), (325, 8592), (337, 8655), (338, 8661), (339, 8667), (340, 8670), (345, 8700), (365, 8805), (369, 8817), (415, 8940), (443, 9039), (456, 9075),

Gene: Circinus_78 Start: 63255, Stop: 65063, Start Num: 29
Candidate Starts for Circinus_78:
(Start: 29 @63255 has 86 MA's), (36, 63285), (Start: 49 @63336 has 1 MA's), (53, 63354), (81, 63438), (88, 63480), (99, 63555), (102, 63567), (154, 63894), (156, 63903), (181, 64026), (185, 64053), (188, 64065), (221, 64203), (232, 64254), (242, 64329), (285, 64497), (287, 64503), (313, 64647), (316, 64671), (331, 64722), (349, 64782), (352, 64797), (403, 64977), (421, 65016), (431, 65049),

Gene: Comrade_88 Start: 63762, Stop: 65576, Start Num: 27
Candidate Starts for Comrade_88:
(Start: 27 @63762 has 22 MA's), (36, 63795), (79, 63939), (81, 63948), (88, 63990), (99, 64065), (101, 64074), (156, 64413), (167, 64464), (219, 64710), (221, 64713), (232, 64764), (282, 64989), (287, 65013), (288, 65016), (313, 65157), (316, 65181), (331, 65232), (344, 65274), (352, 65307), (379, 65427), (403, 65490), (421, 65529),

Gene: Concombre_259 Start: 147531, Stop: 149747, Start Num: 16

Candidate Starts for Concombre_259:
(2, 147249), (Start: 16 @147531 has 64 MA's), (35, 147597), (45, 147639), (51, 147663), (55, 147681), (64, 147720), (78, 147792), (82, 147807), (91, 147864), (93, 147870), (95, 147897), (105, 147972), (108, 147984), (121, 148059), (122, 148062), (134, 148170), (147, 148254), (150, 148281), (162, 148368), (196, 148542), (199, 148566), (211, 148623), (227, 148710), (244, 148818), (257, 148878), (286, 148989), (289, 149001), (292, 149010), (299, 149052), (309, 149109), (334, 149241), (338, 149256), (359, 149379), (361, 149406), (362, 149409), (363, 149412), (364, 149415), (379, 149472), (398, 149520), (421, 149580), (425, 149589), (457, 149700),

Gene: Coogler_96 Start: 69063, Stop: 70883, Start Num: 29
Candidate Starts for Coogler_96:
(Start: 29 @69063 has 86 MA's), (38, 69096), (Start: 49 @69144 has 1 MA's), (54, 69168), (61, 69177), (93, 69309), (100, 69369), (156, 69711), (206, 69960), (232, 70062), (238, 70107), (283, 70296), (287, 70311), (305, 70392), (309, 70422), (313, 70455), (325, 70500), (329, 70524), (336, 70554), (344, 70572), (348, 70587), (352, 70605), (360, 70650), (401, 70785), (415, 70815), (421, 70836),

Gene: Crete_11 Start: 7320, Stop: 9296, Start Num: 42
Candidate Starts for Crete_11:
(Start: 42 @7320 has 77 MA's), (Start: 49 @7347 has 1 MA's), (74, 7434), (78, 7449), (85, 7482), (98, 7578), (99, 7581), (110, 7653), (111, 7656), (112, 7659), (131, 7785), (135, 7812), (166, 7995), (174, 8034), (184, 8088), (205, 8205), (216, 8235), (248, 8421), (276, 8556), (295, 8649), (304, 8688), (308, 8721), (309, 8724), (337, 8865), (338, 8871), (339, 8877), (345, 8910), (352, 8940), (365, 9015), (392, 9102), (394, 9105), (415, 9153), (456, 9288),

Gene: Cross_96 Start: 69038, Stop: 70858, Start Num: 29
Candidate Starts for Cross_96:
(Start: 29 @69038 has 86 MA's), (38, 69071), (Start: 49 @69119 has 1 MA's), (54, 69143), (61, 69152), (93, 69284), (100, 69344), (156, 69686), (206, 69935), (232, 70037), (238, 70082), (283, 70271), (287, 70286), (305, 70367), (309, 70397), (313, 70430), (325, 70475), (329, 70499), (336, 70529), (344, 70547), (348, 70562), (352, 70580), (360, 70625), (401, 70760), (415, 70790), (421, 70811),

Gene: Cursive_94 Start: 68563, Stop: 70383, Start Num: 29
Candidate Starts for Cursive_94:
(Start: 29 @68563 has 86 MA's), (38, 68596), (Start: 49 @68644 has 1 MA's), (54, 68668), (61, 68677), (93, 68809), (100, 68869), (156, 69211), (206, 69460), (232, 69562), (238, 69607), (283, 69796), (287, 69811), (305, 69892), (309, 69922), (313, 69955), (325, 70000), (329, 70024), (336, 70054), (344, 70072), (348, 70087), (352, 70105), (360, 70150), (401, 70285), (415, 70315), (421, 70336),

Gene: DTDevon_254 Start: 147565, Stop: 149781, Start Num: 16
Candidate Starts for DTDevon_254:
(2, 147283), (Start: 16 @147565 has 64 MA's), (35, 147631), (45, 147673), (51, 147697), (55, 147715), (64, 147754), (78, 147826), (82, 147841), (91, 147898), (93, 147904), (95, 147931), (105, 148006), (108, 148018), (121, 148093), (122, 148096), (134, 148204), (147, 148288), (150, 148315), (162, 148402), (196, 148576), (199, 148600), (211, 148657), (227, 148744), (244, 148852), (257, 148912), (286, 149023), (289, 149035), (292, 149044), (299, 149086), (309, 149143), (334, 149275), (338, 149290), (359, 149413), (361, 149440), (362, 149443), (363, 149446), (364, 149449), (379, 149506), (398, 149554), (421, 149614), (425, 149623), (457, 149734),

Gene: Daffodil_259 Start: 145852, Stop: 148068, Start Num: 16
Candidate Starts for Daffodil_259:
(2, 145570), (Start: 16 @145852 has 64 MA's), (35, 145918), (45, 145960), (51, 145984), (55, 146002), (64, 146041), (78, 146113), (82, 146128), (91, 146185), (93, 146191), (95, 146218), (105, 146293), (108, 146305), (121, 146380), (122, 146383), (134, 146491), (147, 146575), (150, 146602), (162,

146689), (196, 146863), (199, 146887), (211, 146944), (227, 147031), (244, 147139), (257, 147199), (286, 147310), (289, 147322), (292, 147331), (299, 147373), (309, 147430), (334, 147562), (338, 147577), (359, 147700), (361, 147727), (362, 147730), (363, 147733), (364, 147736), (379, 147793), (398, 147841), (421, 147901), (425, 147910), (457, 148021),

Gene: Daisy123_99 Start: 69009, Stop: 70829, Start Num: 29
Candidate Starts for Daisy123_99:
(Start: 27 @69006 has 22 MA's), (Start: 29 @69009 has 86 MA's), (53, 69108), (54, 69114), (99, 69309), (101, 69318), (133, 69513), (156, 69657), (158, 69672), (206, 69906), (227, 69990), (232, 70008), (253, 70131), (266, 70182), (269, 70197), (283, 70242), (284, 70245), (287, 70257), (305, 70338), (313, 70401), (320, 70437), (329, 70470), (350, 70542), (352, 70551), (360, 70596), (412, 70752), (421, 70782),

Gene: Dakiti_10 Start: 7069, Stop: 9045, Start Num: 42
Candidate Starts for Dakiti_10:
(Start: 42 @7069 has 77 MA's), (Start: 49 @7096 has 1 MA's), (74, 7183), (78, 7198), (85, 7231), (98, 7327), (99, 7330), (110, 7402), (111, 7405), (112, 7408), (131, 7534), (135, 7561), (166, 7744), (174, 7783), (184, 7837), (205, 7954), (216, 7984), (248, 8170), (276, 8305), (295, 8398), (304, 8437), (308, 8470), (309, 8473), (325, 8551), (337, 8614), (338, 8620), (339, 8626), (340, 8629), (345, 8659), (350, 8680), (352, 8689), (365, 8764), (369, 8776), (392, 8851), (415, 8902), (436, 8983), (456, 9037),

Gene: Damp_7 Start: 6288, Stop: 8264, Start Num: 42
Candidate Starts for Damp_7:
(41, 6282), (Start: 42 @6288 has 77 MA's), (56, 6345), (74, 6402), (78, 6417), (81, 6429), (98, 6546), (99, 6549), (110, 6621), (111, 6624), (112, 6627), (129, 6741), (131, 6753), (135, 6780), (160, 6939), (166, 6963), (174, 7002), (184, 7056), (202, 7158), (216, 7203), (220, 7224), (256, 7437), (276, 7524), (337, 7833), (339, 7845), (340, 7848), (350, 7899), (352, 7908), (365, 7983), (369, 7995), (370, 8001), (382, 8046), (396, 8079), (415, 8121), (446, 8229), (458, 8259),

Gene: Dandelion_259 Start: 148386, Stop: 150602, Start Num: 16
Candidate Starts for Dandelion_259:
(2, 148104), (Start: 16 @148386 has 64 MA's), (35, 148452), (45, 148494), (51, 148518), (55, 148536), (64, 148575), (78, 148647), (82, 148662), (91, 148719), (93, 148725), (95, 148752), (105, 148827), (108, 148839), (121, 148914), (122, 148917), (134, 149025), (147, 149109), (150, 149136), (162, 149223), (196, 149397), (199, 149421), (211, 149478), (227, 149565), (244, 149673), (257, 149733), (286, 149844), (289, 149856), (292, 149865), (299, 149907), (309, 149964), (334, 150096), (338, 150111), (359, 150234), (361, 150261), (362, 150264), (363, 150267), (364, 150270), (379, 150327), (398, 150375), (421, 150435), (425, 150444), (457, 150555),

Gene: Daubenski_98 Start: 68739, Stop: 70559, Start Num: 29
Candidate Starts for Daubenski_98:
(Start: 29 @68739 has 86 MA's), (54, 68844), (61, 68853), (92, 68982), (99, 69039), (110, 69111), (144, 69303), (156, 69387), (158, 69402), (194, 69579), (206, 69636), (232, 69738), (258, 69879), (266, 69912), (284, 69975), (288, 69990), (305, 70068), (313, 70131), (325, 70176), (329, 70200), (344, 70248), (348, 70263), (352, 70281), (360, 70326), (402, 70464), (412, 70482), (420, 70509), (421, 70512),

Gene: Davielle_94 Start: 68606, Stop: 70426, Start Num: 29
Candidate Starts for Davielle_94:
(Start: 29 @68606 has 86 MA's), (38, 68639), (Start: 49 @68687 has 1 MA's), (54, 68711), (61, 68720), (101, 68915), (145, 69173), (156, 69254), (232, 69605), (253, 69728), (283, 69839), (305, 69935), (313, 69998), (325, 70043), (329, 70067), (348, 70130), (352, 70148), (360, 70193), (401, 70328), (412, 70349), (420, 70376), (421, 70379),

Gene: DeejaClivia_240 Start: 143253, Stop: 145469, Start Num: 16
Candidate Starts for DeejaClivia_240:
(Start: 16 @143253 has 64 MA's), (35, 143319), (45, 143361), (51, 143385), (55, 143403), (64, 143442), (78, 143514), (82, 143529), (91, 143586), (93, 143592), (95, 143619), (105, 143694), (108, 143706), (121, 143781), (122, 143784), (134, 143892), (147, 143976), (150, 144003), (162, 144090), (196, 144264), (199, 144288), (211, 144345), (227, 144432), (244, 144540), (257, 144600), (286, 144711), (289, 144723), (299, 144774), (309, 144831), (334, 144963), (338, 144978), (359, 145101), (361, 145128), (362, 145131), (363, 145134), (364, 145137), (379, 145194), (398, 145242), (421, 145302), (425, 145311), (457, 145422),

Gene: Delilah_251 Start: 145945, Stop: 148161, Start Num: 16
Candidate Starts for Delilah_251:
(2, 145663), (Start: 16 @145945 has 64 MA's), (35, 146011), (45, 146053), (51, 146077), (55, 146095), (64, 146134), (78, 146206), (82, 146221), (91, 146278), (93, 146284), (95, 146311), (105, 146386), (108, 146398), (121, 146473), (122, 146476), (134, 146584), (147, 146668), (150, 146695), (162, 146782), (196, 146956), (199, 146980), (211, 147037), (227, 147124), (244, 147232), (257, 147292), (286, 147403), (289, 147415), (292, 147424), (299, 147466), (309, 147523), (334, 147655), (338, 147670), (359, 147793), (361, 147820), (362, 147823), (363, 147826), (364, 147829), (379, 147886), (398, 147934), (421, 147994), (425, 148003), (457, 148114),

Gene: DeluluLabubu_88 Start: 61813, Stop: 63636, Start Num: 22
Candidate Starts for DeluluLabubu_88:
(9, 61759), (Start: 22 @61813 has 4 MA's), (Start: 29 @61825 has 86 MA's), (44, 61888), (53, 61924), (79, 61999), (99, 62125), (110, 62197), (156, 62473), (165, 62521), (167, 62524), (209, 62743), (227, 62806), (232, 62824), (267, 63004), (282, 63049), (303, 63148), (313, 63217), (315, 63226), (316, 63241), (325, 63262), (331, 63292), (344, 63334), (352, 63367), (360, 63412), (397, 63532), (403, 63550), (421, 63589),

Gene: Delylah_255 Start: 146222, Stop: 148438, Start Num: 16
Candidate Starts for Delylah_255:
(2, 145940), (Start: 16 @146222 has 64 MA's), (35, 146288), (45, 146330), (51, 146354), (55, 146372), (64, 146411), (78, 146483), (82, 146498), (91, 146555), (93, 146561), (95, 146588), (105, 146663), (108, 146675), (121, 146750), (122, 146753), (134, 146861), (147, 146945), (150, 146972), (162, 147059), (196, 147233), (199, 147257), (211, 147314), (227, 147401), (244, 147509), (257, 147569), (286, 147680), (289, 147692), (292, 147701), (299, 147743), (309, 147800), (334, 147932), (338, 147947), (359, 148070), (361, 148097), (362, 148100), (363, 148103), (364, 148106), (379, 148163), (398, 148211), (421, 148271), (425, 148280), (457, 148391),

Gene: Demodog_261 Start: 147541, Stop: 149757, Start Num: 16
Candidate Starts for Demodog_261:
(2, 147259), (Start: 16 @147541 has 64 MA's), (35, 147607), (45, 147649), (51, 147673), (55, 147691), (64, 147730), (78, 147802), (82, 147817), (91, 147874), (93, 147880), (95, 147907), (105, 147982), (108, 147994), (121, 148069), (122, 148072), (134, 148180), (147, 148264), (150, 148291), (162, 148378), (196, 148552), (199, 148576), (211, 148633), (227, 148720), (244, 148828), (257, 148888), (286, 148999), (289, 149011), (292, 149020), (299, 149062), (309, 149119), (334, 149251), (338, 149266), (359, 149389), (361, 149416), (362, 149419), (363, 149422), (364, 149425), (379, 149482), (398, 149530), (421, 149590), (425, 149599), (457, 149710),

Gene: Demosthenes_10 Start: 8696, Stop: 10672, Start Num: 42
Candidate Starts for Demosthenes_10:
(Start: 42 @8696 has 77 MA's), (48, 8720), (56, 8753), (74, 8810), (78, 8825), (90, 8894), (98, 8954), (99, 8957), (110, 9029), (111, 9032), (112, 9035), (131, 9155), (135, 9182), (153, 9287), (174, 9404),

(175, 9407), (182, 9446), (192, 9512), (202, 9560), (216, 9605), (220, 9626), (226, 9665), (236, 9728), (239, 9740), (276, 9932), (304, 10064), (308, 10097), (309, 10100), (311, 10124), (315, 10142), (329, 10208), (339, 10253), (340, 10256), (350, 10307), (354, 10325), (361, 10379), (367, 10397), (368, 10400), (392, 10475), (394, 10478), (401, 10496), (425, 10556), (435, 10601), (442, 10619), (443, 10622), (454, 10652),

Gene: Diabla_9 Start: 6889, Stop: 8853, Start Num: 42
Candidate Starts for Diabla_9:
(Start: 42 @6889 has 77 MA's), (Start: 49 @6916 has 1 MA's), (74, 7003), (78, 7018), (85, 7051), (98, 7147), (99, 7150), (110, 7222), (111, 7225), (112, 7228), (129, 7342), (131, 7354), (146, 7438), (174, 7603), (184, 7657), (205, 7774), (216, 7804), (248, 7990), (256, 8038), (276, 8125), (291, 8194), (295, 8218), (304, 8257), (308, 8290), (309, 8293), (329, 8401), (337, 8434), (338, 8440), (339, 8446), (340, 8449), (345, 8479), (365, 8584), (369, 8596), (415, 8710), (417, 8722), (436, 8791), (443, 8809), (456, 8845),

Gene: DocB7_003 Start: 1607, Stop: 3589, Start Num: 37
Candidate Starts for DocB7_003:
(37, 1607), (59, 1700), (78, 1760), (87, 1814), (91, 1832), (98, 1889), (99, 1892), (110, 1964), (111, 1967), (112, 1970), (119, 2015), (158, 2267), (174, 2339), (176, 2348), (180, 2363), (184, 2393), (201, 2495), (202, 2498), (220, 2579), (226, 2618), (235, 2678), (243, 2723), (247, 2741), (263, 2810), (265, 2816), (268, 2828), (273, 2849), (275, 2855), (276, 2861), (280, 2882), (297, 2963), (299, 2975), (327, 3122), (345, 3215), (361, 3308), (364, 3317), (369, 3332), (420, 3467), (425, 3476), (432, 3503),

Gene: Dorin_90 Start: 69354, Stop: 71168, Start Num: 30
Candidate Starts for Dorin_90:
(Start: 30 @69354 has 5 MA's), (Start: 49 @69429 has 1 MA's), (86, 69579), (90, 69609), (92, 69615), (95, 69645), (103, 69690), (112, 69750), (113, 69756), (120, 69804), (137, 69894), (145, 69942), (154, 69990), (158, 70014), (174, 70083), (209, 70275), (223, 70314), (227, 70350), (229, 70353), (264, 70539), (267, 70548), (269, 70557), (274, 70575), (287, 70620), (296, 70665), (308, 70725), (313, 70761), (328, 70824), (331, 70836), (335, 70857), (345, 70881), (353, 70917), (365, 70986), (374, 71019), (383, 71040), (391, 71064), (418, 71115), (421, 71121), (434, 71163),

Gene: DrPhinkDaddy_250 Start: 146630, Stop: 148846, Start Num: 16
Candidate Starts for DrPhinkDaddy_250:
(2, 146348), (Start: 16 @146630 has 64 MA's), (35, 146696), (45, 146738), (51, 146762), (55, 146780), (64, 146819), (78, 146891), (82, 146906), (91, 146963), (93, 146969), (95, 146996), (105, 147071), (108, 147083), (121, 147158), (122, 147161), (134, 147269), (147, 147353), (150, 147380), (162, 147467), (196, 147641), (199, 147665), (211, 147722), (227, 147809), (244, 147917), (257, 147977), (286, 148088), (289, 148100), (292, 148109), (299, 148151), (309, 148208), (334, 148340), (338, 148355), (359, 148478), (361, 148505), (362, 148508), (363, 148511), (364, 148514), (379, 148571), (398, 148619), (421, 148679), (425, 148688), (457, 148799),

Gene: E3_gp5 Start: 1661, Stop: 3724, Start Num: 14
Candidate Starts for E3_gp5:
(6, 1604), (Start: 14 @1661 has 1 MA's), (Start: 30 @1709 has 5 MA's), (64, 1853), (76, 1919), (78, 1925), (84, 1949), (93, 2003), (101, 2066), (115, 2159), (127, 2231), (128, 2246), (132, 2288), (139, 2339), (141, 2345), (147, 2387), (148, 2393), (150, 2414), (162, 2501), (178, 2570), (180, 2576), (184, 2603), (197, 2684), (200, 2699), (215, 2744), (227, 2792), (244, 2897), (268, 3008), (292, 3089), (298, 3122), (306, 3167), (324, 3266), (338, 3338), (357, 3428), (362, 3479), (375, 3533), (379, 3545), (400, 3605), (405, 3614), (407, 3617), (431, 3671),

Gene: EGole_97 Start: 69983, Stop: 71803, Start Num: 29
Candidate Starts for EGole_97:

(Start: 29 @69983 has 86 MA's), (38, 70016), (Start: 49 @70064 has 1 MA's), (54, 70088), (61, 70097), (93, 70229), (100, 70289), (156, 70631), (232, 70982), (238, 71027), (253, 71105), (283, 71216), (287, 71231), (305, 71312), (309, 71342), (313, 71375), (325, 71420), (329, 71444), (336, 71474), (344, 71492), (348, 71507), (352, 71525), (360, 71570), (401, 71705), (415, 71735), (421, 71756), (426, 71768),

Gene: Eggsie_10 Start: 7089, Stop: 9053, Start Num: 42
Candidate Starts for Eggsie_10:
(Start: 42 @7089 has 77 MA's), (Start: 49 @7116 has 1 MA's), (74, 7203), (78, 7218), (85, 7251), (98, 7347), (99, 7350), (110, 7422), (111, 7425), (112, 7428), (129, 7542), (131, 7554), (135, 7581), (146, 7638), (174, 7803), (184, 7857), (205, 7974), (216, 8004), (248, 8190), (276, 8325), (295, 8418), (304, 8457), (308, 8490), (309, 8493), (329, 8601), (337, 8634), (338, 8640), (339, 8646), (340, 8649), (345, 8679), (369, 8796), (394, 8868), (415, 8910), (417, 8922), (436, 8991), (443, 9009), (456, 9045),

Gene: EggyFarm_261 Start: 147425, Stop: 149641, Start Num: 16
Candidate Starts for EggyFarm_261:
(2, 147143), (Start: 16 @147425 has 64 MA's), (35, 147491), (45, 147533), (51, 147557), (55, 147575), (64, 147614), (78, 147686), (82, 147701), (91, 147758), (93, 147764), (95, 147791), (105, 147866), (108, 147878), (121, 147953), (122, 147956), (134, 148064), (147, 148148), (150, 148175), (162, 148262), (196, 148436), (199, 148460), (211, 148517), (227, 148604), (244, 148712), (257, 148772), (286, 148883), (289, 148895), (292, 148904), (299, 148946), (309, 149003), (336, 149141), (338, 149150), (359, 149273), (361, 149300), (362, 149303), (363, 149306), (364, 149309), (379, 149366), (398, 149414), (421, 149474), (425, 149483), (457, 149594),

Gene: Ekhein_10 Start: 7074, Stop: 9047, Start Num: 42
Candidate Starts for Ekhein_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (135, 7566), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (216, 7989), (248, 8175), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: Eliot67_94 Start: 68464, Stop: 70284, Start Num: 29
Candidate Starts for Eliot67_94:
(Start: 29 @68464 has 86 MA's), (38, 68497), (Start: 49 @68545 has 1 MA's), (54, 68569), (61, 68578), (101, 68773), (145, 69031), (156, 69112), (232, 69463), (253, 69586), (283, 69697), (305, 69793), (313, 69856), (325, 69901), (329, 69925), (349, 69991), (352, 70006), (360, 70051), (401, 70186), (412, 70207), (420, 70234), (421, 70237),

Gene: Elmer_101 Start: 69560, Stop: 71380, Start Num: 29
Candidate Starts for Elmer_101:
(Start: 29 @69560 has 86 MA's), (53, 69659), (54, 69665), (101, 69869), (106, 69911), (110, 69932), (156, 70208), (181, 70331), (209, 70478), (227, 70541), (232, 70559), (253, 70682), (259, 70706), (283, 70793), (305, 70889), (313, 70952), (315, 70961), (320, 70988), (333, 71033), (350, 71093), (352, 71102), (360, 71147), (379, 71222), (412, 71303), (421, 71333),

Gene: EmToTheThree_254 Start: 146418, Stop: 148634, Start Num: 16
Candidate Starts for EmToTheThree_254:
(2, 146136), (Start: 16 @146418 has 64 MA's), (35, 146484), (45, 146526), (51, 146550), (55, 146568), (64, 146607), (78, 146679), (82, 146694), (91, 146751), (93, 146757), (95, 146784), (105, 146859), (108, 146871), (121, 146946), (122, 146949), (134, 147057), (147, 147141), (150, 147168), (162, 147255), (196, 147429), (199, 147453), (211, 147510), (227, 147597), (244, 147705), (257, 147765),

(286, 147876), (289, 147888), (292, 147897), (299, 147939), (309, 147996), (334, 148128), (338, 148143), (359, 148266), (361, 148293), (362, 148296), (363, 148299), (364, 148302), (379, 148359), (398, 148407), (421, 148467), (425, 148476), (457, 148587),

Gene: Emma1919_90 Start: 62485, Stop: 64296, Start Num: 29
Candidate Starts for Emma1919_90:
(9, 62419), (Start: 22 @62473 has 4 MA's), (Start: 29 @62485 has 86 MA's), (Start: 49 @62566 has 1 MA's), (99, 62785), (110, 62857), (154, 63124), (156, 63133), (167, 63184), (232, 63484), (258, 63625), (282, 63709), (290, 63745), (313, 63877), (315, 63886), (316, 63901), (331, 63952), (344, 63994), (352, 64027), (360, 64072), (403, 64210), (412, 64225), (421, 64249),

Gene: Enygma_100 Start: 71046, Stop: 72866, Start Num: 29
Candidate Starts for Enygma_100:
(Start: 27 @71043 has 22 MA's), (Start: 29 @71046 has 86 MA's), (Start: 49 @71127 has 1 MA's), (54, 71151), (61, 71160), (99, 71346), (101, 71355), (145, 71613), (156, 71694), (179, 71799), (203, 71934), (206, 71943), (227, 72027), (232, 72045), (253, 72168), (269, 72234), (284, 72282), (287, 72294), (305, 72375), (313, 72438), (325, 72483), (329, 72507), (350, 72579), (352, 72588), (360, 72633), (412, 72789), (421, 72819),

Gene: Erdmann_255 Start: 146386, Stop: 148602, Start Num: 16
Candidate Starts for Erdmann_255:
(2, 146104), (Start: 16 @146386 has 64 MA's), (35, 146452), (45, 146494), (51, 146518), (55, 146536), (64, 146575), (78, 146647), (82, 146662), (91, 146719), (93, 146725), (95, 146752), (105, 146827), (108, 146839), (121, 146914), (122, 146917), (134, 147025), (147, 147109), (150, 147136), (162, 147223), (196, 147397), (199, 147421), (211, 147478), (227, 147565), (244, 147673), (257, 147733), (286, 147844), (289, 147856), (292, 147865), (299, 147907), (309, 147964), (334, 148096), (338, 148111), (359, 148234), (361, 148261), (362, 148264), (363, 148267), (364, 148270), (379, 148327), (398, 148375), (421, 148435), (425, 148444), (457, 148555),

Gene: Evy_96 Start: 68938, Stop: 70758, Start Num: 29
Candidate Starts for Evy_96:
(Start: 29 @68938 has 86 MA's), (54, 69043), (61, 69052), (93, 69184), (100, 69244), (102, 69250), (145, 69505), (156, 69586), (206, 69835), (232, 69937), (242, 70012), (253, 70060), (283, 70171), (305, 70267), (313, 70330), (325, 70375), (329, 70399), (335, 70426), (336, 70429), (350, 70471), (352, 70480), (360, 70525), (379, 70600), (421, 70711),

Gene: Ewok_252 Start: 145880, Stop: 148096, Start Num: 16
Candidate Starts for Ewok_252:
(2, 145598), (Start: 16 @145880 has 64 MA's), (35, 145946), (45, 145988), (51, 146012), (55, 146030), (64, 146069), (78, 146141), (82, 146156), (91, 146213), (93, 146219), (95, 146246), (105, 146321), (108, 146333), (121, 146408), (122, 146411), (134, 146519), (147, 146603), (150, 146630), (162, 146717), (196, 146891), (199, 146915), (211, 146972), (227, 147059), (244, 147167), (257, 147227), (286, 147338), (289, 147350), (292, 147359), (299, 147401), (309, 147458), (334, 147590), (338, 147605), (359, 147728), (361, 147755), (362, 147758), (363, 147761), (364, 147764), (379, 147821), (398, 147869), (421, 147929), (425, 147938), (457, 148049),

Gene: Exiguo_10 Start: 7086, Stop: 9059, Start Num: 42
Candidate Starts for Exiguo_10:
(33, 7053), (39, 7068), (Start: 42 @7086 has 77 MA's), (Start: 49 @7113 has 1 MA's), (74, 7200), (78, 7215), (80, 7224), (85, 7248), (98, 7344), (99, 7347), (108, 7407), (110, 7419), (111, 7422), (112, 7425), (131, 7551), (135, 7578), (146, 7635), (166, 7761), (174, 7800), (183, 7848), (184, 7854), (205, 7971), (216, 8001), (248, 8187), (259, 8247), (276, 8322), (295, 8415), (304, 8454), (308, 8487), (315, 8532), (325, 8568), (337, 8631), (338, 8637), (339, 8643), (340, 8646), (345, 8676), (365, 8781), (369,

8793), (415, 8916), (443, 9015), (456, 9051),

Gene: Faust_88 Start: 63632, Stop: 65443, Start Num: 27
Candidate Starts for Faust_88:
(Start: 27 @63632 has 22 MA's), (Start: 34 @63656 has 1 MA's), (35, 63659), (Start: 49 @63716 has 1 MA's), (84, 63830), (88, 63860), (100, 63941), (101, 63944), (133, 64139), (134, 64145), (156, 64283), (221, 64583), (232, 64634), (249, 64742), (267, 64814), (313, 65027), (316, 65051), (325, 65072), (329, 65096), (331, 65102), (344, 65144), (352, 65177), (421, 65396), (426, 65408),

Gene: FelixAlejandro_11 Start: 7272, Stop: 9245, Start Num: 42
Candidate Starts for FelixAlejandro_11:
(39, 7254), (Start: 42 @7272 has 77 MA's), (Start: 49 @7299 has 1 MA's), (74, 7386), (78, 7401), (80, 7410), (85, 7434), (98, 7530), (99, 7533), (103, 7551), (108, 7593), (110, 7605), (111, 7608), (112, 7611), (131, 7737), (135, 7764), (146, 7821), (166, 7947), (174, 7986), (183, 8034), (184, 8040), (205, 8157), (216, 8187), (248, 8373), (259, 8433), (276, 8508), (295, 8601), (304, 8640), (308, 8673), (315, 8718), (325, 8754), (337, 8817), (338, 8823), (339, 8829), (340, 8832), (345, 8862), (365, 8967), (369, 8979), (415, 9102), (443, 9201), (456, 9237),

Gene: Finch_1 Start: 1, Stop: 2109, Start Num: 14
Candidate Starts for Finch_1:
(Start: 14 @1 has 1 MA's), (67, 214), (69, 220), (95, 376), (101, 412), (104, 448), (111, 478), (112, 481), (134, 649), (139, 685), (141, 691), (150, 760), (155, 799), (162, 847), (175, 898), (180, 922), (197, 1042), (198, 1048), (227, 1150), (228, 1153), (234, 1189), (244, 1255), (246, 1267), (283, 1423), (286, 1435), (288, 1441), (312, 1585), (313, 1588), (327, 1651), (330, 1669), (349, 1762), (353, 1780), (359, 1816), (360, 1831), (363, 1849), (365, 1855), (375, 1900), (388, 1939), (422, 2014), (437, 2071),

Gene: Flakey_10 Start: 7075, Stop: 9048, Start Num: 42
Candidate Starts for Flakey_10:
(39, 7057), (Start: 42 @7075 has 77 MA's), (Start: 49 @7102 has 1 MA's), (74, 7189), (78, 7204), (80, 7213), (85, 7237), (98, 7333), (99, 7336), (108, 7396), (110, 7408), (111, 7411), (112, 7414), (131, 7540), (135, 7567), (146, 7624), (166, 7750), (174, 7789), (183, 7837), (184, 7843), (205, 7960), (216, 7990), (248, 8176), (276, 8311), (295, 8404), (304, 8443), (308, 8476), (315, 8521), (325, 8557), (337, 8620), (338, 8626), (339, 8632), (340, 8635), (345, 8665), (365, 8770), (369, 8782), (415, 8905), (443, 9004), (456, 9040),

Gene: Fongie_253 Start: 145878, Stop: 148094, Start Num: 16
Candidate Starts for Fongie_253:
(2, 145596), (Start: 16 @145878 has 64 MA's), (35, 145944), (45, 145986), (51, 146010), (55, 146028), (64, 146067), (78, 146139), (82, 146154), (91, 146211), (93, 146217), (95, 146244), (105, 146319), (108, 146331), (121, 146406), (122, 146409), (134, 146517), (147, 146601), (150, 146628), (162, 146715), (196, 146889), (199, 146913), (211, 146970), (227, 147057), (244, 147165), (257, 147225), (286, 147336), (289, 147348), (292, 147357), (299, 147399), (309, 147456), (334, 147588), (338, 147603), (359, 147726), (361, 147753), (362, 147756), (363, 147759), (364, 147762), (379, 147819), (398, 147867), (421, 147927), (425, 147936), (457, 148047),

Gene: Forrest_92 Start: 64228, Stop: 66039, Start Num: 29
Candidate Starts for Forrest_92:
(11, 64171), (21, 64207), (Start: 29 @64228 has 86 MA's), (35, 64252), (38, 64261), (Start: 49 @64309 has 1 MA's), (99, 64528), (110, 64600), (154, 64867), (156, 64876), (167, 64927), (232, 65227), (258, 65368), (282, 65452), (290, 65488), (313, 65620), (315, 65629), (316, 65644), (331, 65695), (344, 65737), (352, 65770), (360, 65815), (403, 65953), (412, 65968), (421, 65992),

Gene: FoxtrotP1_252 Start: 146972, Stop: 149188, Start Num: 16

Candidate Starts for FoxtrotP1_252:
(2, 146690), (Start: 16 @146972 has 64 MA's), (35, 147038), (45, 147080), (51, 147104), (55, 147122), (64, 147161), (78, 147233), (82, 147248), (91, 147305), (93, 147311), (95, 147338), (105, 147413), (108, 147425), (121, 147500), (122, 147503), (134, 147611), (147, 147695), (150, 147722), (162, 147809), (196, 147983), (199, 148007), (211, 148064), (227, 148151), (244, 148259), (257, 148319), (286, 148430), (289, 148442), (292, 148451), (299, 148493), (309, 148550), (334, 148682), (338, 148697), (359, 148820), (361, 148847), (362, 148850), (363, 148853), (364, 148856), (379, 148913), (398, 148961), (421, 149021), (425, 149030), (457, 149141),

Gene: Francesca_90 Start: 70092, Stop: 71906, Start Num: 30
Candidate Starts for Francesca_90:
(Start: 30 @70092 has 5 MA's), (Start: 49 @70167 has 1 MA's), (86, 70317), (90, 70347), (92, 70353), (95, 70383), (103, 70428), (112, 70488), (113, 70494), (120, 70542), (137, 70632), (145, 70680), (154, 70728), (158, 70752), (165, 70785), (174, 70821), (209, 71013), (223, 71052), (227, 71088), (229, 71091), (267, 71286), (269, 71295), (274, 71313), (296, 71403), (308, 71463), (313, 71499), (328, 71562), (331, 71574), (365, 71724), (374, 71757), (383, 71778), (384, 71787), (391, 71802), (418, 71853), (421, 71859), (434, 71901),

Gene: Francob_87 Start: 62527, Stop: 64338, Start Num: 29
Candidate Starts for Francob_87:
(9, 62461), (Start: 22 @62515 has 4 MA's), (Start: 29 @62527 has 86 MA's), (36, 62557), (Start: 49 @62608 has 1 MA's), (79, 62701), (99, 62827), (100, 62833), (110, 62899), (156, 63175), (167, 63226), (227, 63508), (232, 63526), (282, 63751), (313, 63919), (331, 63994), (344, 64036), (352, 64069), (360, 64114), (384, 64207), (403, 64252), (421, 64291),

Gene: FreddyDRoo_95 Start: 68464, Stop: 70284, Start Num: 29
Candidate Starts for FreddyDRoo_95:
(Start: 29 @68464 has 86 MA's), (38, 68497), (Start: 49 @68545 has 1 MA's), (54, 68569), (61, 68578), (101, 68773), (145, 69031), (156, 69112), (232, 69463), (253, 69586), (283, 69697), (305, 69793), (313, 69856), (325, 69901), (329, 69925), (349, 69991), (352, 70006), (360, 70051), (401, 70186), (412, 70207), (420, 70234), (421, 70237),

Gene: FudgeTart_249 Start: 145476, Stop: 147692, Start Num: 16
Candidate Starts for FudgeTart_249:
(2, 145194), (Start: 16 @145476 has 64 MA's), (35, 145542), (45, 145584), (51, 145608), (55, 145626), (64, 145665), (78, 145737), (82, 145752), (91, 145809), (93, 145815), (95, 145842), (105, 145917), (108, 145929), (121, 146004), (122, 146007), (134, 146115), (147, 146199), (150, 146226), (162, 146313), (196, 146487), (199, 146511), (211, 146568), (227, 146655), (244, 146763), (257, 146823), (286, 146934), (289, 146946), (292, 146955), (299, 146997), (309, 147054), (334, 147186), (338, 147201), (359, 147324), (361, 147351), (362, 147354), (363, 147357), (364, 147360), (379, 147417), (398, 147465), (421, 147525), (425, 147534), (457, 147645),

Gene: GMA7_2 Start: 1492, Stop: 3459, Start Num: 42
Candidate Starts for GMA7_2:
(20, 1408), (Start: 42 @1492 has 77 MA's), (Start: 49 @1519 has 1 MA's), (56, 1549), (78, 1621), (98, 1750), (110, 1825), (111, 1828), (112, 1831), (129, 1945), (131, 1957), (174, 2206), (175, 2209), (183, 2254), (184, 2260), (202, 2362), (214, 2404), (216, 2407), (220, 2428), (276, 2728), (289, 2791), (291, 2797), (322, 2968), (337, 3037), (339, 3049), (361, 3175), (389, 3265), (401, 3292), (415, 3310), (440, 3403), (449, 3424),

Gene: GTE7_2 Start: 1504, Stop: 3444, Start Num: 49
Candidate Starts for GTE7_2:

(20, 1393), (Start: 42 @1477 has 77 MA's), (Start: 49 @1504 has 1 MA's), (56, 1534), (78, 1606), (98, 1735), (110, 1810), (111, 1813), (112, 1816), (129, 1930), (131, 1942), (174, 2191), (175, 2194), (183, 2239), (184, 2245), (202, 2347), (214, 2389), (216, 2392), (220, 2413), (276, 2713), (289, 2776), (291, 2782), (322, 2953), (337, 3022), (339, 3034), (361, 3160), (389, 3250), (401, 3277), (415, 3295), (440, 3388), (449, 3409),

Gene: GalacticEye_7 Start: 6288, Stop: 8264, Start Num: 42
Candidate Starts for GalacticEye_7:
(41, 6282), (Start: 42 @6288 has 77 MA's), (56, 6345), (74, 6402), (78, 6417), (81, 6429), (98, 6546), (99, 6549), (110, 6621), (111, 6624), (112, 6627), (129, 6741), (131, 6753), (146, 6837), (160, 6939), (166, 6963), (174, 7002), (184, 7056), (202, 7158), (216, 7203), (220, 7224), (256, 7437), (276, 7524), (337, 7833), (339, 7845), (340, 7848), (350, 7899), (352, 7908), (365, 7983), (369, 7995), (370, 8001), (382, 8046), (396, 8079), (415, 8121), (446, 8229), (458, 8259),

Gene: Genie2_100 Start: 69201, Stop: 71024, Start Num: 27
Candidate Starts for Genie2_100:
(Start: 27 @69201 has 22 MA's), (Start: 29 @69204 has 86 MA's), (53, 69303), (54, 69309), (101, 69513), (156, 69852), (203, 70092), (232, 70203), (249, 70311), (253, 70326), (266, 70377), (284, 70440), (288, 70455), (290, 70464), (305, 70533), (313, 70596), (325, 70641), (336, 70695), (352, 70746), (360, 70791), (365, 70815), (384, 70884), (421, 70977),

Gene: Gibbi_104 Start: 69370, Stop: 71193, Start Num: 27
Candidate Starts for Gibbi_104:
(Start: 27 @69370 has 22 MA's), (Start: 29 @69373 has 86 MA's), (53, 69472), (54, 69478), (99, 69673), (101, 69682), (133, 69877), (156, 70021), (158, 70036), (206, 70270), (227, 70354), (232, 70372), (253, 70495), (266, 70546), (269, 70561), (284, 70609), (287, 70621), (305, 70702), (313, 70765), (320, 70801), (329, 70834), (350, 70906), (352, 70915), (360, 70960), (412, 71116), (421, 71146),

Gene: Gibbles_9 Start: 6637, Stop: 8661, Start Num: 10
Candidate Starts for Gibbles_9:
(Start: 10 @6637 has 5 MA's), (59, 6802), (67, 6835), (73, 6871), (80, 6901), (90, 6961), (97, 7012), (98, 7021), (99, 7024), (110, 7096), (112, 7102), (120, 7156), (121, 7159), (131, 7234), (135, 7261), (145, 7315), (168, 7447), (169, 7453), (170, 7462), (174, 7483), (186, 7537), (205, 7633), (210, 7657), (273, 7954), (275, 7960), (276, 7966), (290, 8032), (293, 8041), (297, 8068), (313, 8167), (325, 8212), (329, 8242), (342, 8311), (351, 8344), (365, 8425), (368, 8434), (369, 8437), (385, 8494), (399, 8512), (416, 8539), (424, 8563), (448, 8644), (450, 8650),

Gene: Gilson_89 Start: 62435, Stop: 64258, Start Num: 22
Candidate Starts for Gilson_89:
(9, 62381), (Start: 22 @62435 has 4 MA's), (Start: 29 @62447 has 86 MA's), (Start: 49 @62528 has 1 MA's), (99, 62747), (110, 62819), (154, 63086), (156, 63095), (167, 63146), (232, 63446), (258, 63587), (282, 63671), (290, 63707), (313, 63839), (315, 63848), (316, 63863), (331, 63914), (344, 63956), (352, 63989), (360, 64034), (403, 64172), (412, 64187), (421, 64211),

Gene: Gizmo_259 Start: 148303, Stop: 150519, Start Num: 16
Candidate Starts for Gizmo_259:
(2, 148021), (Start: 16 @148303 has 64 MA's), (35, 148369), (45, 148411), (51, 148435), (55, 148453), (64, 148492), (78, 148564), (82, 148579), (91, 148636), (93, 148642), (95, 148669), (105, 148744), (108, 148756), (121, 148831), (122, 148834), (134, 148942), (147, 149026), (150, 149053), (162, 149140), (196, 149314), (199, 149338), (211, 149395), (227, 149482), (244, 149590), (257, 149650), (286, 149761), (289, 149773), (292, 149782), (299, 149824), (309, 149881), (334, 150013), (338, 150028), (359, 150151), (361, 150178), (362, 150181), (363, 150184), (364, 150187), (379, 150244),

(398, 150292), (421, 150352), (425, 150361), (457, 150472),

Gene: Gorko_10 Start: 7075, Stop: 9048, Start Num: 42
Candidate Starts for Gorko_10:
(39, 7057), (Start: 42 @7075 has 77 MA's), (Start: 49 @7102 has 1 MA's), (74, 7189), (78, 7204), (85, 7237), (90, 7273), (98, 7333), (99, 7336), (108, 7396), (110, 7408), (111, 7411), (112, 7414), (131, 7540), (135, 7567), (146, 7624), (166, 7750), (174, 7789), (183, 7837), (184, 7843), (205, 7960), (216, 7990), (248, 8176), (276, 8311), (295, 8404), (304, 8443), (308, 8476), (315, 8521), (325, 8557), (337, 8620), (338, 8626), (339, 8632), (340, 8635), (345, 8665), (365, 8770), (369, 8782), (415, 8905), (443, 9004), (456, 9040),

Gene: GourdThymes_10 Start: 7074, Stop: 9047, Start Num: 42
Candidate Starts for GourdThymes_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (135, 7566), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (208, 7977), (216, 7989), (248, 8175), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: Grasshills_260 Start: 147424, Stop: 149640, Start Num: 16
Candidate Starts for Grasshills_260:
(2, 147142), (Start: 16 @147424 has 64 MA's), (35, 147490), (45, 147532), (51, 147556), (55, 147574), (64, 147613), (78, 147685), (82, 147700), (91, 147757), (93, 147763), (95, 147790), (105, 147865), (108, 147877), (121, 147952), (122, 147955), (134, 148063), (147, 148147), (150, 148174), (162, 148261), (196, 148435), (199, 148459), (211, 148516), (227, 148603), (244, 148711), (257, 148771), (286, 148882), (289, 148894), (292, 148903), (299, 148945), (309, 149002), (336, 149140), (338, 149149), (359, 149272), (361, 149299), (362, 149302), (363, 149305), (364, 149308), (379, 149365), (398, 149413), (421, 149473), (425, 149482), (457, 149593),

Gene: Grayson_114 Start: 71000, Stop: 72739, Start Num: 29
Candidate Starts for Grayson_114:
(Start: 29 @71000 has 86 MA's), (40, 71045), (53, 71099), (92, 71243), (95, 71273), (99, 71300), (101, 71309), (103, 71318), (112, 71378), (130, 71477), (137, 71519), (140, 71549), (142, 71558), (188, 71783), (217, 71900), (225, 71924), (229, 71957), (231, 71963), (274, 72170), (275, 72176), (292, 72230), (300, 72275), (308, 72317), (309, 72320), (312, 72350), (346, 72476), (377, 72611), (412, 72677), (414, 72680), (421, 72692),

Gene: Greely_254 Start: 148790, Stop: 151084, Start Num: 12
Candidate Starts for Greely_254:
(Start: 12 @148790 has 3 MA's), (35, 148862), (50, 148925), (57, 148952), (76, 149051), (78, 149057), (84, 149081), (93, 149135), (105, 149237), (108, 149249), (109, 149258), (121, 149324), (125, 149357), (132, 149420), (136, 149441), (152, 149552), (155, 149585), (178, 149702), (180, 149708), (187, 149768), (189, 149780), (191, 149789), (197, 149828), (211, 149894), (222, 149939), (227, 149981), (230, 149990), (241, 150074), (244, 150086), (251, 150119), (270, 150212), (278, 150269), (279, 150281), (281, 150305), (284, 150320), (292, 150350), (299, 150392), (301, 150398), (319, 150512), (343, 150632), (361, 150734), (362, 150737), (363, 150740), (366, 150749), (401, 150857), (408, 150872), (423, 150908), (438, 150965), (445, 150989), (451, 151004),

Gene: Guillaume_7 Start: 6299, Stop: 8275, Start Num: 42
Candidate Starts for Guillaume_7:
(41, 6293), (Start: 42 @6299 has 77 MA's), (56, 6356), (74, 6413), (78, 6428), (81, 6440), (98, 6557), (99, 6560), (110, 6632), (111, 6635), (112, 6638), (129, 6752), (131, 6764), (135, 6791), (160, 6950),

(166, 6974), (174, 7013), (184, 7067), (202, 7169), (216, 7214), (220, 7235), (256, 7448), (276, 7535), (337, 7844), (339, 7856), (340, 7859), (350, 7910), (352, 7919), (365, 7994), (369, 8006), (370, 8012), (382, 8057), (396, 8090), (415, 8132), (446, 8240), (458, 8270),

Gene: Guwapp_249 Start: 144272, Stop: 146488, Start Num: 16
Candidate Starts for Guwapp_249:
(2, 143990), (Start: 16 @144272 has 64 MA's), (35, 144338), (45, 144380), (51, 144404), (55, 144422), (64, 144461), (78, 144533), (82, 144548), (91, 144605), (93, 144611), (95, 144638), (105, 144713), (108, 144725), (121, 144800), (122, 144803), (134, 144911), (147, 144995), (150, 145022), (162, 145109), (196, 145283), (199, 145307), (211, 145364), (227, 145451), (244, 145559), (257, 145619), (286, 145730), (289, 145742), (292, 145751), (299, 145793), (309, 145850), (334, 145982), (338, 145997), (359, 146120), (361, 146147), (362, 146150), (363, 146153), (364, 146156), (379, 146213), (398, 146261), (421, 146321), (425, 146330), (457, 146441),

Gene: Hail2Pitt_7 Start: 6282, Stop: 8258, Start Num: 42
Candidate Starts for Hail2Pitt_7:
(41, 6276), (Start: 42 @6282 has 77 MA's), (56, 6339), (74, 6396), (78, 6411), (81, 6423), (98, 6540), (99, 6543), (110, 6615), (111, 6618), (112, 6621), (129, 6735), (131, 6747), (135, 6774), (160, 6933), (166, 6957), (174, 6996), (184, 7050), (202, 7152), (216, 7197), (220, 7218), (256, 7431), (276, 7518), (339, 7839), (340, 7842), (350, 7893), (365, 7977), (369, 7989), (382, 8040), (396, 8073), (415, 8115), (458, 8253),

Gene: HangryHippo_96 Start: 69037, Stop: 70857, Start Num: 29
Candidate Starts for HangryHippo_96:
(Start: 29 @69037 has 86 MA's), (38, 69070), (Start: 49 @69118 has 1 MA's), (54, 69142), (61, 69151), (93, 69283), (100, 69343), (156, 69685), (206, 69934), (232, 70036), (238, 70081), (283, 70270), (287, 70285), (305, 70366), (309, 70396), (313, 70429), (325, 70474), (329, 70498), (336, 70528), (344, 70546), (348, 70561), (352, 70579), (360, 70624), (401, 70759), (415, 70789), (421, 70810),

Gene: Harambe_7 Start: 6303, Stop: 8279, Start Num: 42
Candidate Starts for Harambe_7:
(41, 6297), (Start: 42 @6303 has 77 MA's), (56, 6360), (74, 6417), (78, 6432), (81, 6444), (98, 6561), (99, 6564), (110, 6636), (111, 6639), (112, 6642), (129, 6756), (131, 6768), (135, 6795), (160, 6954), (166, 6978), (174, 7017), (184, 7071), (202, 7173), (216, 7218), (220, 7239), (256, 7452), (276, 7539), (339, 7860), (340, 7863), (350, 7914), (365, 7998), (369, 8010), (382, 8061), (396, 8094), (415, 8136), (446, 8244), (458, 8274),

Gene: HayZem_11 Start: 7303, Stop: 9270, Start Num: 42
Candidate Starts for HayZem_11:
(20, 7219), (Start: 42 @7303 has 77 MA's), (Start: 49 @7330 has 1 MA's), (56, 7360), (78, 7432), (98, 7561), (110, 7636), (111, 7639), (112, 7642), (129, 7756), (131, 7768), (174, 8017), (175, 8020), (183, 8065), (184, 8071), (202, 8173), (214, 8215), (216, 8218), (220, 8239), (276, 8539), (289, 8602), (291, 8608), (322, 8779), (337, 8848), (339, 8860), (361, 8986), (389, 9076), (401, 9103), (415, 9121), (440, 9214), (449, 9235),

Gene: Hello_7 Start: 6289, Stop: 8265, Start Num: 42
Candidate Starts for Hello_7:
(41, 6283), (Start: 42 @6289 has 77 MA's), (56, 6346), (74, 6403), (78, 6418), (81, 6430), (98, 6547), (99, 6550), (110, 6622), (111, 6625), (112, 6628), (129, 6742), (131, 6754), (146, 6838), (160, 6940), (166, 6964), (174, 7003), (184, 7057), (202, 7159), (216, 7204), (220, 7225), (256, 7438), (276, 7525), (337, 7834), (339, 7846), (340, 7849), (350, 7900), (352, 7909), (365, 7984), (369, 7996), (370, 8002), (382, 8047), (396, 8080), (415, 8122), (446, 8230), (458, 8260),

Gene: Hollow_10 Start: 8733, Stop: 10700, Start Num: 42
Candidate Starts for Hollow_10:
(Start: 42 @8733 has 77 MA's), (48, 8757), (56, 8790), (74, 8847), (78, 8862), (90, 8931), (98, 8991), (99, 8994), (110, 9066), (111, 9069), (112, 9072), (131, 9192), (135, 9219), (149, 9300), (153, 9324), (174, 9441), (175, 9444), (182, 9483), (183, 9489), (192, 9549), (202, 9597), (216, 9642), (220, 9663), (226, 9702), (236, 9765), (239, 9777), (276, 9963), (290, 10029), (299, 10077), (308, 10128), (309, 10131), (311, 10155), (329, 10239), (339, 10284), (340, 10287), (350, 10338), (352, 10347), (360, 10398), (361, 10410), (367, 10428), (372, 10452), (392, 10503), (435, 10629), (443, 10650), (454, 10680),

Gene: Hotorobo_10 Start: 7085, Stop: 9058, Start Num: 42
Candidate Starts for Hotorobo_10:
(39, 7067), (Start: 42 @7085 has 77 MA's), (Start: 49 @7112 has 1 MA's), (74, 7199), (78, 7214), (80, 7223), (85, 7247), (98, 7343), (99, 7346), (108, 7406), (110, 7418), (111, 7421), (112, 7424), (131, 7550), (135, 7577), (146, 7634), (166, 7760), (174, 7799), (183, 7847), (184, 7853), (205, 7970), (216, 8000), (248, 8186), (276, 8321), (295, 8414), (304, 8453), (308, 8486), (315, 8531), (325, 8567), (337, 8630), (338, 8636), (339, 8642), (340, 8645), (345, 8675), (365, 8780), (369, 8792), (415, 8915), (443, 9014), (456, 9050),

Gene: HyRo_238 Start: 144789, Stop: 147005, Start Num: 16
Candidate Starts for HyRo_238:
(Start: 16 @144789 has 64 MA's), (35, 144855), (45, 144897), (51, 144921), (55, 144939), (64, 144978), (78, 145050), (82, 145065), (91, 145122), (93, 145128), (95, 145155), (105, 145230), (108, 145242), (121, 145317), (122, 145320), (134, 145428), (147, 145512), (150, 145539), (162, 145626), (196, 145800), (199, 145824), (211, 145881), (227, 145968), (244, 146076), (257, 146136), (286, 146247), (289, 146259), (299, 146310), (309, 146367), (338, 146514), (359, 146637), (361, 146664), (362, 146667), (363, 146670), (364, 146673), (379, 146730), (398, 146778), (421, 146838), (425, 146847), (457, 146958),

Gene: I3_263 Start: 146580, Stop: 148796, Start Num: 16
Candidate Starts for I3_263:
(2, 146298), (Start: 16 @146580 has 64 MA's), (35, 146646), (45, 146688), (51, 146712), (55, 146730), (64, 146769), (78, 146841), (82, 146856), (91, 146913), (93, 146919), (95, 146946), (105, 147021), (108, 147033), (121, 147108), (122, 147111), (134, 147219), (147, 147303), (150, 147330), (162, 147417), (196, 147591), (199, 147615), (211, 147672), (227, 147759), (244, 147867), (257, 147927), (286, 148038), (289, 148050), (292, 148059), (299, 148101), (309, 148158), (336, 148296), (338, 148305), (359, 148428), (361, 148455), (362, 148458), (363, 148461), (364, 148464), (379, 148521), (398, 148569), (421, 148629), (425, 148638), (457, 148749),

Gene: IchabodCrane_97 Start: 68962, Stop: 70782, Start Num: 29
Candidate Starts for IchabodCrane_97:
(Start: 27 @68959 has 22 MA's), (Start: 29 @68962 has 86 MA's), (53, 69061), (54, 69067), (99, 69262), (101, 69271), (133, 69466), (156, 69610), (158, 69625), (206, 69859), (227, 69943), (232, 69961), (253, 70084), (266, 70135), (269, 70150), (283, 70195), (284, 70198), (287, 70210), (305, 70291), (313, 70354), (320, 70390), (329, 70423), (350, 70495), (352, 70504), (360, 70549), (412, 70705), (421, 70735),

Gene: Jada_89 Start: 62960, Stop: 64771, Start Num: 29
Candidate Starts for Jada_89:
(9, 62894), (Start: 22 @62948 has 4 MA's), (Start: 29 @62960 has 86 MA's), (Start: 49 @63041 has 1 MA's), (99, 63260), (110, 63332), (154, 63599), (156, 63608), (167, 63659), (232, 63959), (258, 64100), (282, 64184), (290, 64220), (313, 64352), (315, 64361), (316, 64376), (331, 64427), (344, 64469), (352, 64502), (360, 64547), (403, 64685), (412, 64700), (421, 64724),

Gene: Jams_7 Start: 6308, Stop: 8284, Start Num: 42
Candidate Starts for Jams_7:
(41, 6302), (Start: 42 @6308 has 77 MA's), (56, 6365), (74, 6422), (78, 6437), (81, 6449), (98, 6566), (99, 6569), (110, 6641), (111, 6644), (112, 6647), (129, 6761), (131, 6773), (135, 6800), (160, 6959), (166, 6983), (174, 7022), (184, 7076), (202, 7178), (216, 7223), (220, 7244), (256, 7457), (276, 7544), (337, 7853), (339, 7865), (340, 7868), (350, 7919), (352, 7928), (365, 8003), (369, 8015), (370, 8021), (382, 8066), (396, 8099), (415, 8141), (446, 8249), (458, 8279),

Gene: Jay2Jay_100 Start: 69790, Stop: 71610, Start Num: 29
Candidate Starts for Jay2Jay_100:
(Start: 29 @69790 has 86 MA's), (Start: 49 @69871 has 1 MA's), (54, 69895), (61, 69904), (93, 70036), (100, 70096), (156, 70438), (179, 70543), (206, 70687), (232, 70789), (242, 70864), (253, 70912), (283, 71023), (305, 71119), (313, 71182), (325, 71227), (329, 71251), (335, 71278), (336, 71281), (350, 71323), (352, 71332), (360, 71377), (379, 71452), (421, 71563),

Gene: JayJay_253 Start: 144961, Stop: 147177, Start Num: 16
Candidate Starts for JayJay_253:
(Start: 16 @144961 has 64 MA's), (35, 145027), (45, 145069), (51, 145093), (55, 145111), (64, 145150), (78, 145222), (82, 145237), (91, 145294), (93, 145300), (95, 145327), (105, 145402), (108, 145414), (121, 145489), (122, 145492), (134, 145600), (147, 145684), (150, 145711), (162, 145798), (196, 145972), (199, 145996), (211, 146053), (227, 146140), (244, 146248), (257, 146308), (286, 146419), (289, 146431), (299, 146482), (309, 146539), (338, 146686), (359, 146809), (361, 146836), (362, 146839), (363, 146842), (364, 146845), (379, 146902), (398, 146950), (421, 147010), (425, 147019), (457, 147130),

Gene: JeanGrey_1 Start: 1, Stop: 2082, Start Num: 15
Candidate Starts for JeanGrey_1:
(Start: 15 @1 has 1 MA's), (59, 172), (64, 193), (76, 259), (91, 337), (93, 343), (109, 466), (110, 469), (112, 475), (114, 487), (128, 586), (132, 628), (134, 643), (139, 679), (141, 685), (148, 733), (150, 754), (197, 1024), (227, 1153), (244, 1258), (290, 1447), (314, 1591), (315, 1594), (336, 1693), (351, 1771), (362, 1846), (419, 2008),

Gene: Jellybones_10 Start: 7109, Stop: 9082, Start Num: 42
Candidate Starts for Jellybones_10:
(39, 7091), (Start: 42 @7109 has 77 MA's), (Start: 49 @7136 has 1 MA's), (74, 7223), (78, 7238), (80, 7247), (85, 7271), (98, 7367), (99, 7370), (103, 7388), (108, 7430), (110, 7442), (111, 7445), (112, 7448), (131, 7574), (135, 7601), (146, 7658), (166, 7784), (174, 7823), (183, 7871), (184, 7877), (205, 7994), (216, 8024), (248, 8210), (276, 8345), (295, 8438), (304, 8477), (308, 8510), (315, 8555), (325, 8591), (337, 8654), (338, 8660), (339, 8666), (340, 8669), (345, 8699), (365, 8804), (369, 8816), (415, 8939), (443, 9038), (456, 9074),

Gene: Jessibeth14_253 Start: 146595, Stop: 148811, Start Num: 16
Candidate Starts for Jessibeth14_253:
(2, 146313), (Start: 16 @146595 has 64 MA's), (35, 146661), (45, 146703), (51, 146727), (55, 146745), (64, 146784), (78, 146856), (82, 146871), (91, 146928), (93, 146934), (95, 146961), (105, 147036), (108, 147048), (121, 147123), (122, 147126), (134, 147234), (147, 147318), (150, 147345), (162, 147432), (196, 147606), (199, 147630), (211, 147687), (227, 147774), (244, 147882), (257, 147942), (286, 148053), (289, 148065), (292, 148074), (299, 148116), (309, 148173), (338, 148320), (359, 148443), (361, 148470), (362, 148473), (363, 148476), (364, 148479), (379, 148536), (398, 148584), (421, 148644), (425, 148653), (457, 148764),

Gene: JigglyPuff_259 Start: 147090, Stop: 149306, Start Num: 16

Candidate Starts for JigglyPuff_259:
(2, 146808), (Start: 16 @147090 has 64 MA's), (35, 147156), (45, 147198), (51, 147222), (55, 147240), (64, 147279), (78, 147351), (82, 147366), (91, 147423), (93, 147429), (95, 147456), (105, 147531), (108, 147543), (121, 147618), (122, 147621), (134, 147729), (147, 147813), (150, 147840), (162, 147927), (196, 148101), (199, 148125), (211, 148182), (227, 148269), (244, 148377), (257, 148437), (286, 148548), (289, 148560), (292, 148569), (299, 148611), (309, 148668), (334, 148800), (338, 148815), (359, 148938), (361, 148965), (362, 148968), (363, 148971), (364, 148974), (379, 149031), (398, 149079), (421, 149139), (425, 149148), (457, 149259),

Gene: JimJam_100 Start: 69336, Stop: 71156, Start Num: 29
Candidate Starts for JimJam_100:
(Start: 27 @69333 has 22 MA's), (Start: 29 @69336 has 86 MA's), (53, 69435), (54, 69441), (99, 69636), (101, 69645), (133, 69840), (156, 69984), (158, 69999), (206, 70233), (227, 70317), (232, 70335), (253, 70458), (266, 70509), (269, 70524), (283, 70569), (284, 70572), (287, 70584), (305, 70665), (313, 70728), (320, 70764), (329, 70797), (350, 70869), (352, 70878), (360, 70923), (412, 71079), (421, 71109),

Gene: John316_10 Start: 7074, Stop: 9047, Start Num: 42
Candidate Starts for John316_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (90, 7272), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (216, 7989), (248, 8175), (255, 8208), (259, 8235), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: Jollison_99 Start: 69218, Stop: 71038, Start Num: 29
Candidate Starts for Jollison_99:
(Start: 27 @69215 has 22 MA's), (Start: 29 @69218 has 86 MA's), (53, 69317), (54, 69323), (99, 69518), (101, 69527), (133, 69722), (156, 69866), (158, 69881), (206, 70115), (227, 70199), (232, 70217), (253, 70340), (266, 70391), (269, 70406), (283, 70451), (284, 70454), (287, 70466), (305, 70547), (313, 70610), (320, 70646), (329, 70679), (350, 70751), (352, 70760), (360, 70805), (412, 70961), (421, 70991),

Gene: Jormungandr_7 Start: 6302, Stop: 8278, Start Num: 42
Candidate Starts for Jormungandr_7:
(41, 6296), (Start: 42 @6302 has 77 MA's), (56, 6359), (74, 6416), (78, 6431), (81, 6443), (98, 6560), (99, 6563), (110, 6635), (111, 6638), (112, 6641), (129, 6755), (131, 6767), (135, 6794), (160, 6953), (166, 6977), (174, 7016), (184, 7070), (202, 7172), (216, 7217), (220, 7238), (256, 7451), (276, 7538), (339, 7859), (340, 7862), (350, 7913), (365, 7997), (369, 8009), (382, 8060), (396, 8093), (415, 8135), (446, 8243), (458, 8273),

Gene: Jumbo_7 Start: 7988, Stop: 10030, Start Num: 8
Candidate Starts for Jumbo_7:
(Start: 8 @7988 has 1 MA's), (59, 8168), (90, 8327), (94, 8348), (98, 8387), (99, 8390), (103, 8408), (110, 8462), (112, 8468), (164, 8792), (170, 8813), (174, 8834), (186, 8894), (190, 8912), (222, 9038), (233, 9110), (253, 9218), (275, 9314), (276, 9320), (280, 9341), (296, 9419), (298, 9425), (305, 9455), (318, 9551), (325, 9566), (329, 9596), (339, 9641), (361, 9767), (365, 9779), (369, 9791), (447, 10010),

Gene: Kampe_10 Start: 6495, Stop: 8519, Start Num: 10
Candidate Starts for Kampe_10:
(Start: 10 @6495 has 5 MA's), (59, 6660), (67, 6693), (73, 6729), (80, 6759), (90, 6819), (97, 6870), (98, 6879), (99, 6882), (110, 6954), (112, 6960), (120, 7014), (121, 7017), (131, 7092), (135, 7119),

(145, 7173), (168, 7305), (169, 7311), (170, 7320), (174, 7341), (186, 7395), (205, 7491), (210, 7515), (273, 7812), (275, 7818), (276, 7824), (290, 7890), (293, 7899), (297, 7926), (313, 8025), (325, 8070), (329, 8100), (342, 8169), (351, 8202), (365, 8283), (368, 8292), (369, 8295), (385, 8352), (399, 8370), (416, 8397), (424, 8421), (448, 8502), (450, 8508),

Gene: Karimac_99 Start: 69367, Stop: 71187, Start Num: 29
Candidate Starts for Karimac_99:
(Start: 27 @69364 has 22 MA's), (Start: 29 @69367 has 86 MA's), (53, 69466), (54, 69472), (99, 69667), (101, 69676), (133, 69871), (156, 70015), (158, 70030), (206, 70264), (227, 70348), (232, 70366), (253, 70489), (266, 70540), (269, 70555), (284, 70603), (287, 70615), (305, 70696), (313, 70759), (320, 70795), (329, 70828), (350, 70900), (352, 70909), (360, 70954), (365, 70978), (412, 71110), (421, 71140),

Gene: Karp_86 Start: 63355, Stop: 65169, Start Num: 27
Candidate Starts for Karp_86:
(Start: 27 @63355 has 22 MA's), (36, 63388), (79, 63532), (88, 63583), (99, 63658), (101, 63667), (156, 64006), (167, 64057), (219, 64303), (221, 64306), (232, 64357), (267, 64537), (282, 64582), (287, 64606), (288, 64609), (313, 64750), (316, 64774), (331, 64825), (344, 64867), (352, 64900), (379, 65020), (403, 65083), (421, 65122),

Gene: Kaseim_7 Start: 6299, Stop: 8275, Start Num: 42
Candidate Starts for Kaseim_7:
(41, 6293), (Start: 42 @6299 has 77 MA's), (56, 6356), (74, 6413), (78, 6428), (81, 6440), (98, 6557), (110, 6632), (111, 6635), (112, 6638), (129, 6752), (131, 6764), (146, 6848), (160, 6950), (166, 6974), (174, 7013), (184, 7067), (202, 7169), (216, 7214), (220, 7235), (256, 7448), (276, 7535), (337, 7844), (339, 7856), (340, 7859), (350, 7910), (352, 7919), (365, 7994), (369, 8006), (370, 8012), (382, 8057), (396, 8090), (415, 8132), (446, 8240), (458, 8270),

Gene: Katyusha_10 Start: 8798, Stop: 10765, Start Num: 42
Candidate Starts for Katyusha_10:
(Start: 42 @8798 has 77 MA's), (48, 8822), (56, 8855), (78, 8927), (90, 8996), (98, 9056), (99, 9059), (103, 9077), (110, 9131), (111, 9134), (112, 9137), (131, 9257), (135, 9284), (149, 9365), (153, 9389), (174, 9506), (175, 9509), (182, 9548), (202, 9662), (216, 9707), (220, 9728), (226, 9767), (236, 9830), (239, 9842), (255, 9926), (276, 10028), (290, 10094), (299, 10142), (308, 10193), (309, 10196), (311, 10220), (329, 10304), (339, 10349), (340, 10352), (360, 10463), (361, 10475), (367, 10493), (372, 10517), (392, 10568), (398, 10580), (409, 10607), (435, 10694), (443, 10715), (454, 10745),

Gene: Kelzog_10 Start: 7086, Stop: 9059, Start Num: 42
Candidate Starts for Kelzog_10:
(39, 7068), (Start: 42 @7086 has 77 MA's), (Start: 49 @7113 has 1 MA's), (74, 7200), (78, 7215), (80, 7224), (85, 7248), (98, 7344), (99, 7347), (108, 7407), (110, 7419), (111, 7422), (112, 7425), (131, 7551), (135, 7578), (146, 7635), (166, 7761), (174, 7800), (183, 7848), (184, 7854), (205, 7971), (216, 8001), (248, 8187), (256, 8235), (276, 8322), (295, 8415), (304, 8454), (308, 8487), (315, 8532), (325, 8568), (337, 8631), (338, 8637), (339, 8643), (340, 8646), (345, 8676), (365, 8781), (369, 8793), (415, 8916), (443, 9015), (456, 9051),

Gene: Kenrey_90 Start: 62649, Stop: 64472, Start Num: 22
Candidate Starts for Kenrey_90:
(9, 62595), (21, 62640), (Start: 22 @62649 has 4 MA's), (Start: 29 @62661 has 86 MA's), (Start: 49 @62742 has 1 MA's), (53, 62760), (79, 62835), (99, 62961), (110, 63033), (156, 63309), (165, 63357), (167, 63360), (209, 63579), (227, 63642), (232, 63660), (258, 63801), (267, 63840), (282, 63885), (303, 63984), (313, 64053), (315, 64062), (325, 64098), (331, 64128), (333, 64134), (344, 64170), (352, 64203), (360, 64248), (397, 64368), (403, 64386), (421, 64425),

Gene: KentuckyRacer_100 Start: 69148, Stop: 70971, Start Num: 27
Candidate Starts for KentuckyRacer_100:
(Start: 27 @69148 has 22 MA's), (Start: 29 @69151 has 86 MA's), (53, 69250), (54, 69256), (99, 69451), (101, 69460), (133, 69655), (156, 69799), (158, 69814), (206, 70048), (227, 70132), (232, 70150), (253, 70273), (266, 70324), (269, 70339), (283, 70384), (284, 70387), (287, 70399), (305, 70480), (313, 70543), (320, 70579), (329, 70612), (350, 70684), (352, 70693), (360, 70738), (412, 70894), (421, 70924),

Gene: Khaleesi_252 Start: 146062, Stop: 148278, Start Num: 16
Candidate Starts for Khaleesi_252:
(2, 145780), (Start: 16 @146062 has 64 MA's), (35, 146128), (45, 146170), (51, 146194), (55, 146212), (64, 146251), (78, 146323), (82, 146338), (91, 146395), (93, 146401), (95, 146428), (105, 146503), (108, 146515), (121, 146590), (122, 146593), (134, 146701), (147, 146785), (150, 146812), (162, 146899), (196, 147073), (199, 147097), (211, 147154), (227, 147241), (244, 147349), (257, 147409), (286, 147520), (289, 147532), (292, 147541), (299, 147583), (309, 147640), (338, 147787), (359, 147910), (361, 147937), (362, 147940), (363, 147943), (364, 147946), (379, 148003), (398, 148051), (421, 148111), (425, 148120), (457, 148231),

Gene: Kvothe_10 Start: 8735, Stop: 10702, Start Num: 42
Candidate Starts for Kvothe_10:
(Start: 42 @8735 has 77 MA's), (48, 8759), (56, 8792), (78, 8864), (90, 8933), (98, 8993), (99, 8996), (103, 9014), (110, 9068), (111, 9071), (112, 9074), (131, 9194), (135, 9221), (149, 9302), (153, 9326), (174, 9443), (175, 9446), (182, 9485), (202, 9599), (216, 9644), (220, 9665), (226, 9704), (236, 9767), (239, 9779), (255, 9863), (276, 9965), (290, 10031), (299, 10079), (308, 10130), (309, 10133), (311, 10157), (329, 10241), (339, 10286), (340, 10289), (360, 10400), (361, 10412), (367, 10430), (372, 10454), (392, 10505), (398, 10517), (409, 10544), (435, 10631), (443, 10652), (454, 10682),

Gene: Lahirium_7 Start: 6303, Stop: 8279, Start Num: 42
Candidate Starts for Lahirium_7:
(41, 6297), (Start: 42 @6303 has 77 MA's), (56, 6360), (74, 6417), (78, 6432), (81, 6444), (98, 6561), (99, 6564), (110, 6636), (111, 6639), (112, 6642), (129, 6756), (131, 6768), (135, 6795), (160, 6954), (166, 6978), (174, 7017), (184, 7071), (202, 7173), (216, 7218), (220, 7239), (256, 7452), (276, 7539), (339, 7860), (340, 7863), (350, 7914), (365, 7998), (369, 8010), (382, 8061), (396, 8094), (415, 8136), (458, 8274),

Gene: Larnav_96 Start: 69022, Stop: 70842, Start Num: 29
Candidate Starts for Larnav_96:
(Start: 29 @69022 has 86 MA's), (38, 69055), (Start: 49 @69103 has 1 MA's), (54, 69127), (61, 69136), (93, 69268), (100, 69328), (156, 69670), (206, 69919), (232, 70021), (238, 70066), (283, 70255), (287, 70270), (305, 70351), (309, 70381), (313, 70414), (325, 70459), (329, 70483), (336, 70513), (344, 70531), (348, 70546), (352, 70564), (360, 70609), (401, 70744), (415, 70774), (421, 70795),

Gene: Leo04_97 Start: 69537, Stop: 71357, Start Num: 29
Candidate Starts for Leo04_97:
(Start: 29 @69537 has 86 MA's), (38, 69570), (Start: 49 @69618 has 1 MA's), (54, 69642), (61, 69651), (93, 69783), (100, 69843), (156, 70185), (206, 70434), (232, 70536), (238, 70581), (283, 70770), (287, 70785), (305, 70866), (309, 70896), (313, 70929), (325, 70974), (329, 70998), (336, 71028), (344, 71046), (348, 71061), (352, 71079), (360, 71124), (401, 71259), (415, 71289), (421, 71310),

Gene: Lethe_251 Start: 146646, Stop: 148862, Start Num: 16
Candidate Starts for Lethe_251:

(2, 146364), (Start: 16 @146646 has 64 MA's), (35, 146712), (45, 146754), (51, 146778), (55, 146796), (64, 146835), (78, 146907), (82, 146922), (91, 146979), (93, 146985), (95, 147012), (105, 147087), (108, 147099), (121, 147174), (122, 147177), (134, 147285), (147, 147369), (150, 147396), (162, 147483), (196, 147657), (199, 147681), (211, 147738), (227, 147825), (244, 147933), (257, 147993), (286, 148104), (289, 148116), (292, 148125), (299, 148167), (309, 148224), (334, 148356), (338, 148371), (359, 148494), (361, 148521), (362, 148524), (363, 148527), (364, 148530), (379, 148587), (398, 148635), (421, 148695), (425, 148704), (457, 148815),

Gene: Liandry_95 Start: 69171, Stop: 70991, Start Num: 29
Candidate Starts for Liandry_95:
(Start: 29 @69171 has 86 MA's), (38, 69204), (Start: 49 @69252 has 1 MA's), (54, 69276), (61, 69285), (101, 69480), (145, 69738), (156, 69819), (232, 70170), (253, 70293), (283, 70404), (305, 70500), (313, 70563), (325, 70608), (329, 70632), (349, 70698), (352, 70713), (360, 70758), (401, 70893), (412, 70914), (420, 70941), (421, 70944),

Gene: Lidong_7 Start: 6288, Stop: 8264, Start Num: 42
Candidate Starts for Lidong_7:
(41, 6282), (Start: 42 @6288 has 77 MA's), (56, 6345), (74, 6402), (78, 6417), (81, 6429), (98, 6546), (99, 6549), (110, 6621), (111, 6624), (112, 6627), (129, 6741), (131, 6753), (146, 6837), (160, 6939), (166, 6963), (174, 7002), (184, 7056), (202, 7158), (216, 7203), (220, 7224), (256, 7437), (276, 7524), (337, 7833), (339, 7845), (340, 7848), (350, 7899), (352, 7908), (365, 7983), (369, 7995), (370, 8001), (382, 8046), (396, 8079), (415, 8121), (446, 8229), (458, 8259),

Gene: LilMartin_94 Start: 67945, Stop: 69765, Start Num: 29
Candidate Starts for LilMartin_94:
(Start: 29 @67945 has 86 MA's), (Start: 49 @68026 has 1 MA's), (54, 68050), (61, 68059), (100, 68251), (102, 68257), (156, 68593), (203, 68833), (206, 68842), (232, 68944), (238, 68989), (253, 69067), (283, 69178), (305, 69274), (329, 69406), (336, 69436), (344, 69454), (348, 69469), (352, 69487), (360, 69532), (412, 69688), (420, 69715), (421, 69718),

Gene: LilSaint_95 Start: 68201, Stop: 70021, Start Num: 29
Candidate Starts for LilSaint_95:
(Start: 29 @68201 has 86 MA's), (38, 68234), (54, 68306), (61, 68315), (100, 68507), (156, 68849), (158, 68864), (188, 69011), (201, 69080), (206, 69098), (232, 69200), (253, 69323), (283, 69434), (305, 69530), (313, 69593), (325, 69638), (329, 69662), (336, 69692), (344, 69710), (348, 69725), (352, 69743), (360, 69788), (379, 69863), (420, 69971), (421, 69974),

Gene: Limpid_85 Start: 62314, Stop: 64134, Start Num: 24
Candidate Starts for Limpid_85:
(21, 62302), (Start: 24 @62314 has 4 MA's), (Start: 28 @62323 has 1 MA's), (36, 62353), (53, 62422), (88, 62548), (102, 62635), (156, 62971), (203, 63211), (221, 63271), (232, 63322), (258, 63463), (261, 63478), (269, 63511), (282, 63547), (288, 63574), (313, 63715), (325, 63760), (331, 63790), (345, 63835), (349, 63850), (352, 63865), (360, 63910), (383, 63994), (403, 64048), (421, 64087),

Gene: Linetti_11 Start: 7222, Stop: 9198, Start Num: 42
Candidate Starts for Linetti_11:
(Start: 42 @7222 has 77 MA's), (Start: 49 @7249 has 1 MA's), (74, 7336), (78, 7351), (85, 7384), (98, 7480), (99, 7483), (110, 7555), (111, 7558), (112, 7561), (131, 7687), (135, 7714), (166, 7897), (174, 7936), (184, 7990), (205, 8107), (216, 8137), (248, 8323), (276, 8458), (295, 8551), (304, 8590), (308, 8623), (309, 8626), (325, 8704), (337, 8767), (338, 8773), (339, 8779), (340, 8782), (345, 8812), (350, 8833), (352, 8842), (365, 8917), (369, 8929), (392, 9004), (394, 9007), (415, 9055), (456, 9190),

Gene: Lizzo_10 Start: 7074, Stop: 9047, Start Num: 42

Candidate Starts for Lizzo_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (135, 7566), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (216, 7989), (248, 8175), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: Loanshark_250 Start: 145411, Stop: 147627, Start Num: 16
Candidate Starts for Loanshark_250:
(2, 145129), (Start: 16 @145411 has 64 MA's), (35, 145477), (45, 145519), (51, 145543), (55, 145561), (64, 145600), (78, 145672), (82, 145687), (91, 145744), (93, 145750), (95, 145777), (105, 145852), (108, 145864), (121, 145939), (122, 145942), (134, 146050), (147, 146134), (150, 146161), (162, 146248), (196, 146422), (199, 146446), (211, 146503), (227, 146590), (244, 146698), (257, 146758), (286, 146869), (289, 146881), (292, 146890), (299, 146932), (309, 146989), (334, 147121), (338, 147136), (359, 147259), (361, 147286), (362, 147289), (363, 147292), (364, 147295), (379, 147352), (398, 147400), (421, 147460), (425, 147469), (457, 147580),

Gene: LukeCage_99 Start: 69124, Stop: 70944, Start Num: 29
Candidate Starts for LukeCage_99:
(Start: 27 @69121 has 22 MA's), (Start: 29 @69124 has 86 MA's), (Start: 49 @69205 has 1 MA's), (53, 69223), (54, 69229), (101, 69433), (110, 69496), (133, 69628), (145, 69691), (156, 69772), (206, 70021), (227, 70105), (232, 70123), (249, 70231), (253, 70246), (269, 70312), (305, 70453), (313, 70516), (322, 70555), (325, 70561), (329, 70585), (350, 70657), (352, 70666), (360, 70711), (361, 70723), (379, 70786), (421, 70897),

Gene: Luker_7 Start: 6282, Stop: 8258, Start Num: 42
Candidate Starts for Luker_7:
(41, 6276), (Start: 42 @6282 has 77 MA's), (56, 6339), (74, 6396), (78, 6411), (81, 6423), (98, 6540), (110, 6615), (111, 6618), (112, 6621), (129, 6735), (131, 6747), (146, 6831), (160, 6933), (166, 6957), (174, 6996), (184, 7050), (202, 7152), (216, 7197), (220, 7218), (256, 7431), (276, 7518), (337, 7827), (339, 7839), (340, 7842), (350, 7893), (352, 7902), (365, 7977), (369, 7989), (370, 7995), (382, 8040), (396, 8073), (415, 8115), (446, 8223), (458, 8253),

Gene: Lululemon_95 Start: 68418, Stop: 70238, Start Num: 29
Candidate Starts for Lululemon_95:
(Start: 29 @68418 has 86 MA's), (38, 68451), (Start: 49 @68499 has 1 MA's), (54, 68523), (61, 68532), (93, 68664), (100, 68724), (156, 69066), (206, 69315), (232, 69417), (238, 69462), (283, 69651), (287, 69666), (305, 69747), (309, 69777), (313, 69810), (325, 69855), (329, 69879), (336, 69909), (344, 69927), (348, 69942), (352, 69960), (360, 70005), (401, 70140), (415, 70170), (421, 70191),

Gene: Maby2021_254 Start: 146964, Stop: 149180, Start Num: 16
Candidate Starts for Maby2021_254:
(2, 146682), (Start: 16 @146964 has 64 MA's), (35, 147030), (45, 147072), (51, 147096), (55, 147114), (64, 147153), (78, 147225), (82, 147240), (91, 147297), (93, 147303), (95, 147330), (105, 147405), (108, 147417), (121, 147492), (122, 147495), (134, 147603), (147, 147687), (150, 147714), (162, 147801), (196, 147975), (199, 147999), (211, 148056), (227, 148143), (244, 148251), (257, 148311), (286, 148422), (289, 148434), (292, 148443), (299, 148485), (309, 148542), (334, 148674), (338, 148689), (359, 148812), (361, 148839), (362, 148842), (363, 148845), (364, 148848), (379, 148905), (398, 148953), (421, 149013), (425, 149022), (457, 149133),

Gene: Magritte_12 Start: 7051, Stop: 8949, Start Num: 29
Candidate Starts for Magritte_12:

(Start: 29 @7051 has 86 MA's), (Start: 49 @7135 has 1 MA's), (52, 7147), (60, 7186), (66, 7213), (68, 7219), (78, 7246), (81, 7258), (87, 7300), (90, 7315), (96, 7354), (98, 7375), (102, 7390), (104, 7423), (113, 7462), (116, 7483), (120, 7510), (123, 7528), (151, 7681), (159, 7741), (161, 7759), (259, 8248), (262, 8269), (265, 8278), (337, 8626), (352, 8674), (366, 8746), (384, 8818), (388, 8824), (401, 8860), (402, 8863), (403, 8866), (415, 8890), (420, 8908), (424, 8917),

Gene: Marsus_95 Start: 68194, Stop: 70014, Start Num: 29
Candidate Starts for Marsus_95:
(Start: 29 @68194 has 86 MA's), (Start: 49 @68275 has 1 MA's), (54, 68299), (61, 68308), (81, 68377), (100, 68500), (156, 68842), (203, 69082), (232, 69193), (238, 69238), (253, 69316), (283, 69427), (305, 69523), (329, 69655), (336, 69685), (344, 69703), (348, 69718), (352, 69736), (360, 69781), (412, 69937), (420, 69964), (421, 69967),

Gene: Maupel_88 Start: 62435, Stop: 64258, Start Num: 22
Candidate Starts for Maupel_88:
(9, 62381), (Start: 22 @62435 has 4 MA's), (Start: 29 @62447 has 86 MA's), (Start: 49 @62528 has 1 MA's), (99, 62747), (110, 62819), (154, 63086), (156, 63095), (167, 63146), (232, 63446), (258, 63587), (282, 63671), (290, 63707), (313, 63839), (315, 63848), (316, 63863), (331, 63914), (344, 63956), (352, 63989), (360, 64034), (403, 64172), (412, 64187), (421, 64211),

Gene: Mbo2_2 Start: 1395, Stop: 3455, Start Num: 23
Candidate Starts for Mbo2_2:
(Start: 23 @1395 has 2 MA's), (81, 1623), (95, 1716), (98, 1740), (104, 1788), (110, 1815), (112, 1821), (124, 1905), (142, 2031), (156, 2121), (170, 2187), (174, 2208), (176, 2217), (178, 2229), (186, 2292), (204, 2385), (222, 2460), (233, 2532), (238, 2565), (265, 2685), (275, 2724), (276, 2730), (280, 2751), (287, 2784), (297, 2832), (305, 2865), (310, 2904), (325, 2976), (339, 3051), (360, 3165), (361, 3177), (365, 3189), (369, 3201), (386, 3267), (404, 3300), (430, 3369), (441, 3414), (448, 3432), (453, 3447),

Gene: McWolfish_250 Start: 145273, Stop: 147489, Start Num: 16
Candidate Starts for McWolfish_250:
(2, 144991), (Start: 16 @145273 has 64 MA's), (35, 145339), (45, 145381), (51, 145405), (55, 145423), (64, 145462), (78, 145534), (82, 145549), (91, 145606), (93, 145612), (95, 145639), (105, 145714), (108, 145726), (121, 145801), (122, 145804), (134, 145912), (147, 145996), (150, 146023), (162, 146110), (196, 146284), (199, 146308), (211, 146365), (227, 146452), (244, 146560), (257, 146620), (286, 146731), (289, 146743), (292, 146752), (299, 146794), (309, 146851), (338, 146998), (359, 147121), (361, 147148), (362, 147151), (363, 147154), (364, 147157), (379, 147214), (398, 147262), (421, 147322), (425, 147331), (457, 147442),

Gene: Megamind_250 Start: 145598, Stop: 147814, Start Num: 16
Candidate Starts for Megamind_250:
(2, 145316), (Start: 16 @145598 has 64 MA's), (35, 145664), (45, 145706), (51, 145730), (55, 145748), (64, 145787), (78, 145859), (82, 145874), (91, 145931), (93, 145937), (95, 145964), (105, 146039), (108, 146051), (121, 146126), (122, 146129), (134, 146237), (147, 146321), (150, 146348), (162, 146435), (196, 146609), (199, 146633), (211, 146690), (227, 146777), (244, 146885), (257, 146945), (286, 147056), (289, 147068), (292, 147077), (299, 147119), (309, 147176), (334, 147308), (338, 147323), (359, 147446), (361, 147473), (362, 147476), (363, 147479), (364, 147482), (379, 147539), (398, 147587), (421, 147647), (425, 147656), (457, 147767),

Gene: MeganTheeKilla_87 Start: 61808, Stop: 63619, Start Num: 29
Candidate Starts for MeganTheeKilla_87:
(9, 61742), (Start: 22 @61796 has 4 MA's), (Start: 29 @61808 has 86 MA's), (Start: 49 @61889 has 1 MA's), (99, 62108), (110, 62180), (154, 62447), (156, 62456), (167, 62507), (232, 62807), (258, 62948), (282, 63032), (290, 63068), (313, 63200), (315, 63209), (316, 63224), (331, 63275), (344,

63317), (352, 63350), (360, 63395), (403, 63533), (412, 63548), (421, 63572),

Gene: MikeLiesIn_254 Start: 146734, Stop: 148950, Start Num: 16
Candidate Starts for MikeLiesIn_254:
(2, 146452), (Start: 16 @146734 has 64 MA's), (35, 146800), (45, 146842), (51, 146866), (55, 146884), (64, 146923), (78, 146995), (82, 147010), (91, 147067), (93, 147073), (95, 147100), (105, 147175), (108, 147187), (121, 147262), (122, 147265), (134, 147373), (147, 147457), (150, 147484), (162, 147571), (196, 147745), (199, 147769), (211, 147826), (227, 147913), (244, 148021), (257, 148081), (286, 148192), (289, 148204), (292, 148213), (299, 148255), (309, 148312), (334, 148444), (338, 148459), (359, 148582), (361, 148609), (362, 148612), (363, 148615), (364, 148618), (379, 148675), (398, 148723), (421, 148783), (425, 148792), (457, 148903),

Gene: Mildred21_95 Start: 68171, Stop: 69991, Start Num: 29
Candidate Starts for Mildred21_95:
(Start: 29 @68171 has 86 MA's), (38, 68204), (Start: 49 @68252 has 1 MA's), (54, 68276), (61, 68285), (93, 68417), (100, 68477), (156, 68819), (201, 69050), (206, 69068), (227, 69152), (232, 69170), (253, 69293), (283, 69404), (305, 69500), (329, 69632), (344, 69680), (348, 69695), (350, 69704), (352, 69713), (360, 69758), (412, 69914), (420, 69941), (421, 69944),

Gene: MindFlayer_97 Start: 68866, Stop: 70689, Start Num: 27
Candidate Starts for MindFlayer_97:
(Start: 27 @68866 has 22 MA's), (Start: 29 @68869 has 86 MA's), (53, 68968), (54, 68974), (99, 69169), (101, 69178), (133, 69373), (156, 69517), (158, 69532), (206, 69766), (227, 69850), (232, 69868), (253, 69991), (266, 70042), (269, 70057), (283, 70102), (284, 70105), (287, 70117), (305, 70198), (313, 70261), (320, 70297), (329, 70330), (350, 70402), (352, 70411), (360, 70456), (412, 70612), (421, 70642),

Gene: Minos_7 Start: 6288, Stop: 8264, Start Num: 42
Candidate Starts for Minos_7:
(41, 6282), (Start: 42 @6288 has 77 MA's), (56, 6345), (74, 6402), (78, 6417), (81, 6429), (98, 6546), (110, 6621), (111, 6624), (112, 6627), (129, 6741), (131, 6753), (146, 6837), (160, 6939), (166, 6963), (174, 7002), (184, 7056), (202, 7158), (216, 7203), (220, 7224), (256, 7437), (276, 7524), (337, 7833), (339, 7845), (340, 7848), (350, 7899), (352, 7908), (365, 7983), (369, 7995), (370, 8001), (382, 8046), (396, 8079), (415, 8121), (446, 8229), (458, 8259),

Gene: MoMoMixon_249 Start: 145693, Stop: 147909, Start Num: 16
Candidate Starts for MoMoMixon_249:
(2, 145411), (Start: 16 @145693 has 64 MA's), (35, 145759), (45, 145801), (51, 145825), (55, 145843), (64, 145882), (78, 145954), (82, 145969), (91, 146026), (93, 146032), (95, 146059), (105, 146134), (108, 146146), (121, 146221), (122, 146224), (134, 146332), (147, 146416), (150, 146443), (162, 146530), (196, 146704), (199, 146728), (211, 146785), (227, 146872), (244, 146980), (257, 147040), (286, 147151), (289, 147163), (292, 147172), (299, 147214), (309, 147271), (334, 147403), (338, 147418), (359, 147541), (361, 147568), (362, 147571), (363, 147574), (364, 147577), (379, 147634), (398, 147682), (421, 147742), (425, 147751), (457, 147862),

Gene: Moab_88 Start: 63712, Stop: 65550, Start Num: 24
Candidate Starts for Moab_88:
(21, 63700), (Start: 22 @63709 has 4 MA's), (Start: 24 @63712 has 4 MA's), (Start: 29 @63721 has 86 MA's), (Start: 49 @63802 has 1 MA's), (61, 63835), (99, 64021), (100, 64027), (134, 64231), (156, 64369), (167, 64420), (232, 64720), (267, 64900), (282, 64945), (309, 65080), (313, 65113), (316, 65137), (331, 65188), (352, 65281), (360, 65326), (383, 65410), (403, 65464), (421, 65503),

Gene: Moby_250 Start: 144428, Stop: 146644, Start Num: 16

Candidate Starts for Moby_250:
(Start: 16 @144428 has 64 MA's), (35, 144494), (45, 144536), (51, 144560), (55, 144578), (64, 144617), (78, 144689), (82, 144704), (91, 144761), (93, 144767), (95, 144794), (105, 144869), (108, 144881), (121, 144956), (122, 144959), (134, 145067), (147, 145151), (150, 145178), (162, 145265), (196, 145439), (199, 145463), (211, 145520), (227, 145607), (244, 145715), (257, 145775), (286, 145886), (289, 145898), (299, 145949), (309, 146006), (338, 146153), (359, 146276), (361, 146303), (362, 146306), (363, 146309), (364, 146312), (379, 146369), (398, 146417), (421, 146477), (425, 146486), (457, 146597),

Gene: Moiqah_249 Start: 144405, Stop: 146621, Start Num: 16
Candidate Starts for Moiqah_249:
(Start: 16 @144405 has 64 MA's), (35, 144471), (45, 144513), (51, 144537), (55, 144555), (64, 144594), (78, 144666), (82, 144681), (91, 144738), (93, 144744), (95, 144771), (105, 144846), (108, 144858), (121, 144933), (122, 144936), (134, 145044), (147, 145128), (150, 145155), (162, 145242), (196, 145416), (199, 145440), (211, 145497), (227, 145584), (244, 145692), (257, 145752), (286, 145863), (289, 145875), (299, 145926), (309, 145983), (338, 146130), (359, 146253), (361, 146280), (362, 146283), (363, 146286), (364, 146289), (379, 146346), (398, 146394), (421, 146454), (425, 146463), (457, 146574),

Gene: Monty_9 Start: 7087, Stop: 9060, Start Num: 42
Candidate Starts for Monty_9:
(39, 7069), (Start: 42 @7087 has 77 MA's), (Start: 49 @7114 has 1 MA's), (74, 7201), (78, 7216), (80, 7225), (85, 7249), (98, 7345), (99, 7348), (108, 7408), (110, 7420), (111, 7423), (112, 7426), (131, 7552), (135, 7579), (146, 7636), (166, 7762), (174, 7801), (183, 7849), (184, 7855), (205, 7972), (216, 8002), (248, 8188), (276, 8323), (295, 8416), (304, 8455), (308, 8488), (315, 8533), (325, 8569), (337, 8632), (338, 8638), (339, 8644), (340, 8647), (345, 8677), (365, 8782), (369, 8794), (415, 8917), (443, 9016), (456, 9052),

Gene: MrWormie_7 Start: 6277, Stop: 8253, Start Num: 42
Candidate Starts for MrWormie_7:
(41, 6271), (Start: 42 @6277 has 77 MA's), (56, 6334), (74, 6391), (78, 6406), (81, 6418), (98, 6535), (99, 6538), (110, 6610), (111, 6613), (112, 6616), (129, 6730), (131, 6742), (135, 6769), (146, 6826), (160, 6928), (166, 6952), (174, 6991), (184, 7045), (202, 7147), (216, 7192), (220, 7213), (256, 7426), (276, 7513), (295, 7606), (339, 7834), (340, 7837), (350, 7888), (365, 7972), (369, 7984), (370, 7990), (382, 8035), (396, 8068), (415, 8110), (446, 8218), (458, 8248),

Gene: Msay19_11 Start: 7264, Stop: 9237, Start Num: 42
Candidate Starts for Msay19_11:
(39, 7246), (Start: 42 @7264 has 77 MA's), (Start: 49 @7291 has 1 MA's), (74, 7378), (78, 7393), (80, 7402), (85, 7426), (98, 7522), (99, 7525), (108, 7585), (110, 7597), (111, 7600), (112, 7603), (131, 7729), (135, 7756), (146, 7813), (166, 7939), (174, 7978), (183, 8026), (184, 8032), (205, 8149), (216, 8179), (248, 8365), (276, 8500), (295, 8593), (304, 8632), (308, 8665), (315, 8710), (325, 8746), (337, 8809), (338, 8815), (339, 8821), (340, 8824), (345, 8854), (365, 8959), (369, 8971), (415, 9094), (443, 9193), (456, 9229),

Gene: Mugiwara_99 Start: 69623, Stop: 71443, Start Num: 29
Candidate Starts for Mugiwara_99:
(Start: 27 @69620 has 22 MA's), (Start: 29 @69623 has 86 MA's), (53, 69722), (54, 69728), (83, 69815), (99, 69923), (101, 69932), (133, 70127), (134, 70133), (156, 70271), (158, 70286), (181, 70394), (203, 70511), (206, 70520), (227, 70604), (232, 70622), (249, 70730), (269, 70811), (282, 70847), (305, 70952), (313, 71015), (322, 71054), (329, 71084), (350, 71156), (352, 71165), (360, 71210), (365, 71234), (412, 71366), (421, 71396),

Gene: MulchMansion_94 Start: 67945, Stop: 69765, Start Num: 29
Candidate Starts for MulchMansion_94:
(Start: 29 @67945 has 86 MA's), (Start: 49 @68026 has 1 MA's), (54, 68050), (61, 68059), (100, 68251), (102, 68257), (156, 68593), (203, 68833), (206, 68842), (232, 68944), (238, 68989), (253, 69067), (283, 69178), (305, 69274), (329, 69406), (336, 69436), (344, 69454), (348, 69469), (352, 69487), (360, 69532), (412, 69688), (420, 69715), (421, 69718),

Gene: Muntaha_80 Start: 62088, Stop: 63893, Start Num: 29
Candidate Starts for Muntaha_80:
(Start: 29 @62088 has 86 MA's), (36, 62118), (44, 62151), (Start: 49 @62169 has 1 MA's), (53, 62187), (81, 62271), (88, 62313), (101, 62397), (102, 62400), (154, 62727), (156, 62736), (188, 62898), (221, 63036), (227, 63069), (232, 63087), (242, 63162), (258, 63228), (287, 63336), (288, 63339), (313, 63480), (316, 63504), (325, 63525), (331, 63555), (349, 63615), (352, 63630), (361, 63687), (384, 63768), (390, 63780), (421, 63846),

Gene: Myrna_246 Start: 148768, Stop: 151059, Start Num: 12
Candidate Starts for Myrna_246:
(1, 148270), (Start: 12 @148768 has 3 MA's), (35, 148837), (50, 148900), (57, 148927), (63, 148957), (76, 149026), (78, 149032), (93, 149110), (105, 149212), (108, 149224), (109, 149233), (121, 149299), (125, 149332), (132, 149395), (152, 149527), (155, 149560), (178, 149677), (180, 149683), (187, 149743), (188, 149749), (189, 149755), (191, 149764), (197, 149803), (211, 149869), (222, 149914), (227, 149956), (230, 149965), (241, 150049), (244, 150061), (250, 150091), (251, 150094), (270, 150187), (277, 150232), (279, 150256), (281, 150280), (283, 150292), (292, 150325), (299, 150367), (301, 150373), (319, 150487), (338, 150571), (343, 150607), (361, 150709), (362, 150712), (363, 150715), (366, 150724), (401, 150832), (408, 150847), (423, 150883), (445, 150964),

Gene: Nappy_252 Start: 146633, Stop: 148849, Start Num: 16
Candidate Starts for Nappy_252:
(2, 146351), (Start: 16 @146633 has 64 MA's), (35, 146699), (45, 146741), (51, 146765), (55, 146783), (64, 146822), (78, 146894), (82, 146909), (91, 146966), (93, 146972), (95, 146999), (105, 147074), (108, 147086), (121, 147161), (122, 147164), (134, 147272), (147, 147356), (150, 147383), (162, 147470), (196, 147644), (199, 147668), (211, 147725), (227, 147812), (244, 147920), (257, 147980), (286, 148091), (289, 148103), (292, 148112), (299, 148154), (309, 148211), (334, 148343), (338, 148358), (359, 148481), (361, 148508), (362, 148511), (363, 148514), (364, 148517), (379, 148574), (398, 148622), (421, 148682), (425, 148691), (457, 148802),

Gene: Navo_94 Start: 69090, Stop: 70910, Start Num: 29
Candidate Starts for Navo_94:
(Start: 29 @69090 has 86 MA's), (38, 69123), (Start: 49 @69171 has 1 MA's), (54, 69195), (61, 69204), (101, 69399), (145, 69657), (156, 69738), (232, 70089), (253, 70212), (283, 70323), (305, 70419), (313, 70482), (325, 70527), (329, 70551), (348, 70614), (352, 70632), (360, 70677), (401, 70812), (412, 70833), (420, 70860), (421, 70863),

Gene: NedWong_252 Start: 145985, Stop: 148201, Start Num: 16
Candidate Starts for NedWong_252:
(2, 145703), (Start: 16 @145985 has 64 MA's), (35, 146051), (45, 146093), (51, 146117), (55, 146135), (64, 146174), (78, 146246), (82, 146261), (91, 146318), (93, 146324), (95, 146351), (105, 146426), (108, 146438), (121, 146513), (122, 146516), (134, 146624), (147, 146708), (150, 146735), (162, 146822), (196, 146996), (199, 147020), (211, 147077), (227, 147164), (244, 147272), (257, 147332), (286, 147443), (289, 147455), (292, 147464), (299, 147506), (309, 147563), (334, 147695), (338, 147710), (359, 147833), (361, 147860), (362, 147863), (363, 147866), (364, 147869), (379, 147926), (398, 147974), (421, 148034), (425, 148043), (457, 148154),

Gene: Neoevie_7 Start: 6280, Stop: 8256, Start Num: 42
Candidate Starts for Neoevie_7:
(41, 6274), (Start: 42 @6280 has 77 MA's), (56, 6337), (74, 6394), (78, 6409), (81, 6421), (98, 6538), (99, 6541), (110, 6613), (111, 6616), (112, 6619), (129, 6733), (131, 6745), (135, 6772), (160, 6931), (166, 6955), (174, 6994), (184, 7048), (202, 7150), (216, 7195), (220, 7216), (256, 7429), (276, 7516), (339, 7837), (340, 7840), (350, 7891), (365, 7975), (369, 7987), (382, 8038), (396, 8071), (415, 8113), (446, 8221), (458, 8251),

Gene: Newt_7 Start: 6299, Stop: 8275, Start Num: 42
Candidate Starts for Newt_7:
(41, 6293), (Start: 42 @6299 has 77 MA's), (56, 6356), (74, 6413), (78, 6428), (81, 6440), (98, 6557), (99, 6560), (110, 6632), (111, 6635), (112, 6638), (129, 6752), (131, 6764), (135, 6791), (160, 6950), (166, 6974), (174, 7013), (184, 7067), (202, 7169), (216, 7214), (220, 7235), (256, 7448), (276, 7535), (337, 7844), (339, 7856), (340, 7859), (350, 7910), (352, 7919), (365, 7994), (369, 8006), (370, 8012), (382, 8057), (396, 8090), (415, 8132), (446, 8240), (458, 8270),

Gene: Niagara_10 Start: 8755, Stop: 10722, Start Num: 42
Candidate Starts for Niagara_10:
(Start: 42 @8755 has 77 MA's), (48, 8779), (56, 8812), (78, 8884), (90, 8953), (98, 9013), (99, 9016), (103, 9034), (110, 9088), (111, 9091), (112, 9094), (131, 9214), (135, 9241), (149, 9322), (153, 9346), (174, 9463), (175, 9466), (182, 9505), (202, 9619), (204, 9631), (216, 9664), (220, 9685), (226, 9724), (236, 9787), (239, 9799), (255, 9883), (276, 9985), (290, 10051), (299, 10099), (308, 10150), (309, 10153), (311, 10177), (329, 10261), (339, 10306), (340, 10309), (350, 10360), (352, 10369), (361, 10432), (367, 10450), (372, 10474), (392, 10525), (435, 10651), (443, 10672),

Gene: NiceHouse_103 Start: 73924, Stop: 75702, Start Num: 30
Candidate Starts for NiceHouse_103:
(25, 73915), (26, 73918), (Start: 30 @73924 has 5 MA's), (35, 73945), (38, 73954), (53, 74020), (86, 74143), (90, 74170), (92, 74176), (99, 74233), (102, 74245), (112, 74311), (113, 74317), (117, 74341), (119, 74356), (121, 74368), (131, 74419), (137, 74452), (142, 74491), (163, 74602), (174, 74641), (175, 74644), (193, 74746), (197, 74773), (206, 74806), (224, 74869), (229, 74905), (269, 75103), (294, 75202), (296, 75211), (300, 75229), (303, 75241), (305, 75247), (325, 75352), (335, 75403), (364, 75526), (379, 75574), (383, 75583), (395, 75613), (421, 75655), (428, 75679),

Gene: Nimi13_7 Start: 6300, Stop: 8276, Start Num: 42
Candidate Starts for Nimi13_7:
(41, 6294), (Start: 42 @6300 has 77 MA's), (56, 6357), (74, 6414), (78, 6429), (81, 6441), (98, 6558), (110, 6633), (111, 6636), (112, 6639), (129, 6753), (131, 6765), (146, 6849), (160, 6951), (166, 6975), (174, 7014), (184, 7068), (202, 7170), (216, 7215), (220, 7236), (256, 7449), (276, 7536), (339, 7857), (340, 7860), (350, 7911), (365, 7995), (369, 8007), (382, 8058), (396, 8091), (415, 8133), (458, 8271),

Gene: NootNoot_92 Start: 68085, Stop: 69905, Start Num: 29
Candidate Starts for NootNoot_92:
(Start: 29 @68085 has 86 MA's), (38, 68118), (Start: 49 @68166 has 1 MA's), (54, 68190), (61, 68199), (101, 68394), (145, 68652), (156, 68733), (232, 69084), (253, 69207), (283, 69318), (305, 69414), (313, 69477), (325, 69522), (329, 69546), (349, 69612), (352, 69627), (360, 69672), (401, 69807), (412, 69828), (420, 69855), (421, 69858),

Gene: Norm_253 Start: 146254, Stop: 148470, Start Num: 16
Candidate Starts for Norm_253:
(2, 145972), (Start: 16 @146254 has 64 MA's), (35, 146320), (45, 146362), (51, 146386), (55, 146404), (64, 146443), (78, 146515), (82, 146530), (91, 146587), (93, 146593), (95, 146620), (105, 146695), (108, 146707), (121, 146782), (122, 146785), (134, 146893), (147, 146977), (150, 147004), (162,

147091), (196, 147265), (199, 147289), (211, 147346), (227, 147433), (244, 147541), (257, 147601), (286, 147712), (289, 147724), (292, 147733), (299, 147775), (309, 147832), (334, 147964), (338, 147979), (359, 148102), (361, 148129), (362, 148132), (363, 148135), (364, 148138), (379, 148195), (398, 148243), (421, 148303), (425, 148312), (457, 148423),

Gene: Nova53_86 Start: 68921, Stop: 70735, Start Num: 31
Candidate Starts for Nova53_86:
(Start: 31 @68921 has 1 MA's), (44, 68978), (Start: 49 @68996 has 1 MA's), (90, 69176), (92, 69182), (95, 69212), (103, 69257), (112, 69317), (113, 69323), (120, 69371), (137, 69461), (154, 69557), (158, 69581), (174, 69650), (227, 69917), (229, 69920), (237, 69980), (264, 70106), (266, 70109), (267, 70115), (274, 70142), (296, 70232), (299, 70247), (305, 70268), (308, 70292), (313, 70328), (325, 70373), (328, 70391), (333, 70409), (335, 70424), (379, 70598), (383, 70607), (391, 70631), (418, 70682), (421, 70688), (431, 70721),

Gene: NuevoMundo_255 Start: 146740, Stop: 148956, Start Num: 16
Candidate Starts for NuevoMundo_255:
(Start: 15 @146734 has 1 MA's), (Start: 16 @146740 has 64 MA's), (35, 146806), (45, 146848), (51, 146872), (55, 146890), (64, 146929), (78, 147001), (82, 147016), (91, 147073), (93, 147079), (95, 147106), (105, 147181), (108, 147193), (121, 147268), (122, 147271), (134, 147379), (150, 147490), (162, 147577), (196, 147751), (199, 147775), (211, 147832), (227, 147919), (244, 148027), (257, 148087), (286, 148198), (289, 148210), (299, 148261), (309, 148318), (338, 148465), (359, 148588), (361, 148615), (362, 148618), (363, 148621), (364, 148624), (379, 148681), (398, 148729), (421, 148789), (425, 148798), (457, 148909),

Gene: Orchid_10 Start: 6495, Stop: 8519, Start Num: 10
Candidate Starts for Orchid_10:
(Start: 10 @6495 has 5 MA's), (59, 6660), (67, 6693), (73, 6729), (80, 6759), (90, 6819), (97, 6870), (98, 6879), (99, 6882), (110, 6954), (112, 6960), (120, 7014), (121, 7017), (131, 7092), (135, 7119), (145, 7173), (168, 7305), (169, 7311), (170, 7320), (174, 7341), (186, 7395), (205, 7491), (210, 7515), (273, 7812), (275, 7818), (276, 7824), (290, 7890), (293, 7899), (297, 7926), (313, 8025), (325, 8070), (329, 8100), (342, 8169), (351, 8202), (365, 8283), (368, 8292), (369, 8295), (385, 8352), (399, 8370), (416, 8397), (424, 8421), (448, 8502), (450, 8508),

Gene: OrediggerDelux_255 Start: 146929, Stop: 149145, Start Num: 16
Candidate Starts for OrediggerDelux_255:
(2, 146647), (Start: 16 @146929 has 64 MA's), (35, 146995), (45, 147037), (51, 147061), (55, 147079), (64, 147118), (78, 147190), (82, 147205), (91, 147262), (93, 147268), (95, 147295), (105, 147370), (108, 147382), (121, 147457), (122, 147460), (134, 147568), (147, 147652), (150, 147679), (162, 147766), (196, 147940), (199, 147964), (211, 148021), (227, 148108), (244, 148216), (257, 148276), (286, 148387), (289, 148399), (292, 148408), (299, 148450), (309, 148507), (334, 148639), (338, 148654), (359, 148777), (361, 148804), (362, 148807), (363, 148810), (364, 148813), (379, 148870), (398, 148918), (421, 148978), (425, 148987), (457, 149098),

Gene: PacManQ_95 Start: 68418, Stop: 70238, Start Num: 29
Candidate Starts for PacManQ_95:
(Start: 29 @68418 has 86 MA's), (38, 68451), (Start: 49 @68499 has 1 MA's), (54, 68523), (61, 68532), (93, 68664), (100, 68724), (156, 69066), (206, 69315), (232, 69417), (238, 69462), (283, 69651), (287, 69666), (305, 69747), (309, 69777), (313, 69810), (325, 69855), (329, 69879), (336, 69909), (344, 69927), (348, 69942), (352, 69960), (360, 70005), (401, 70140), (415, 70170), (421, 70191),

Gene: Paradiddles_92 Start: 68349, Stop: 70169, Start Num: 29
Candidate Starts for Paradiddles_92:

(Start: 29 @68349 has 86 MA's), (38, 68382), (Start: 49 @68430 has 1 MA's), (54, 68454), (61, 68463), (101, 68658), (145, 68916), (156, 68997), (232, 69348), (253, 69471), (272, 69549), (283, 69582), (305, 69678), (313, 69741), (325, 69786), (329, 69810), (349, 69876), (352, 69891), (360, 69936), (401, 70071), (412, 70092), (420, 70119), (421, 70122),

Gene: ParkTD_252 Start: 145824, Stop: 148040, Start Num: 16
Candidate Starts for ParkTD_252:
(2, 145542), (Start: 16 @145824 has 64 MA's), (35, 145890), (45, 145932), (51, 145956), (55, 145974), (64, 146013), (78, 146085), (82, 146100), (91, 146157), (93, 146163), (95, 146190), (105, 146265), (108, 146277), (121, 146352), (122, 146355), (134, 146463), (147, 146547), (150, 146574), (162, 146661), (196, 146835), (199, 146859), (211, 146916), (227, 147003), (244, 147111), (257, 147171), (286, 147282), (289, 147294), (292, 147303), (299, 147345), (309, 147402), (334, 147534), (338, 147549), (359, 147672), (361, 147699), (362, 147702), (363, 147705), (364, 147708), (379, 147765), (398, 147813), (421, 147873), (425, 147882), (457, 147993),

Gene: Patelgo_88 Start: 63884, Stop: 65713, Start Num: 29
Candidate Starts for Patelgo_88:
(21, 63863), (Start: 22 @63872 has 4 MA's), (Start: 29 @63884 has 86 MA's), (Start: 49 @63965 has 1 MA's), (61, 63998), (99, 64184), (100, 64190), (134, 64394), (156, 64532), (167, 64583), (232, 64883), (267, 65063), (282, 65108), (309, 65243), (313, 65276), (316, 65300), (331, 65351), (352, 65444), (360, 65489), (383, 65573), (403, 65627), (421, 65666),

Gene: PatrickStar_10 Start: 6495, Stop: 8519, Start Num: 10
Candidate Starts for PatrickStar_10:
(Start: 10 @6495 has 5 MA's), (59, 6660), (67, 6693), (73, 6729), (80, 6759), (90, 6819), (97, 6870), (98, 6879), (99, 6882), (110, 6954), (112, 6960), (120, 7014), (121, 7017), (131, 7092), (135, 7119), (145, 7173), (168, 7305), (169, 7311), (170, 7320), (174, 7341), (186, 7395), (205, 7491), (210, 7515), (273, 7812), (275, 7818), (276, 7824), (290, 7890), (293, 7899), (297, 7926), (313, 8025), (325, 8070), (329, 8100), (342, 8169), (351, 8202), (365, 8283), (368, 8292), (369, 8295), (385, 8352), (399, 8370), (416, 8397), (424, 8421), (448, 8502), (450, 8508),

Gene: Peebs_95 Start: 68772, Stop: 70592, Start Num: 29
Candidate Starts for Peebs_95:
(Start: 29 @68772 has 86 MA's), (38, 68805), (Start: 49 @68853 has 1 MA's), (54, 68877), (61, 68886), (93, 69018), (100, 69078), (156, 69420), (206, 69669), (232, 69771), (238, 69816), (253, 69894), (283, 70005), (287, 70020), (305, 70101), (309, 70131), (313, 70164), (325, 70209), (329, 70233), (336, 70263), (344, 70281), (348, 70296), (352, 70314), (360, 70359), (401, 70494), (415, 70524), (421, 70545), (426, 70557),

Gene: Pepperwood_96 Start: 68905, Stop: 70725, Start Num: 29
Candidate Starts for Pepperwood_96:
(Start: 29 @68905 has 86 MA's), (38, 68938), (Start: 49 @68986 has 1 MA's), (54, 69010), (61, 69019), (93, 69151), (100, 69211), (156, 69553), (206, 69802), (232, 69904), (238, 69949), (253, 70027), (283, 70138), (287, 70153), (305, 70234), (309, 70264), (313, 70297), (325, 70342), (329, 70366), (336, 70396), (344, 70414), (348, 70429), (352, 70447), (360, 70492), (401, 70627), (415, 70657), (421, 70678), (426, 70690),

Gene: Peregrin_112 Start: 69410, Stop: 71149, Start Num: 29
Candidate Starts for Peregrin_112:
(Start: 29 @69410 has 86 MA's), (40, 69455), (53, 69509), (92, 69653), (95, 69683), (99, 69710), (101, 69719), (103, 69728), (110, 69782), (112, 69788), (130, 69887), (137, 69929), (140, 69959), (188, 70193), (225, 70334), (229, 70367), (231, 70373), (264, 70544), (275, 70586), (289, 70631), (292, 70640), (300, 70685), (309, 70730), (312, 70760), (317, 70790), (345, 70883), (346, 70886), (377,

71021), (412, 71087), (414, 71090), (421, 71102),

Gene: Persimmon_95 Start: 68018, Stop: 69838, Start Num: 29
Candidate Starts for Persimmon_95:
(Start: 29 @68018 has 86 MA's), (38, 68051), (Start: 49 @68099 has 1 MA's), (54, 68123), (61, 68132), (101, 68327), (145, 68585), (156, 68666), (232, 69017), (253, 69140), (283, 69251), (305, 69347), (313, 69410), (325, 69455), (329, 69479), (349, 69545), (352, 69560), (360, 69605), (401, 69740), (412, 69761), (420, 69788), (421, 69791),

Gene: Phabba_256 Start: 148154, Stop: 150448, Start Num: 12
Candidate Starts for Phabba_256:
(Start: 12 @148154 has 3 MA's), (35, 148226), (50, 148289), (57, 148316), (76, 148415), (78, 148421), (84, 148445), (93, 148499), (105, 148601), (108, 148613), (109, 148622), (121, 148688), (125, 148721), (132, 148784), (136, 148805), (152, 148916), (155, 148949), (178, 149066), (180, 149072), (187, 149132), (189, 149144), (191, 149153), (197, 149192), (211, 149258), (222, 149303), (227, 149345), (230, 149354), (241, 149438), (244, 149450), (251, 149483), (270, 149576), (278, 149633), (279, 149645), (284, 149684), (292, 149714), (299, 149756), (301, 149762), (319, 149876), (326, 149903), (343, 149996), (346, 150005), (361, 150098), (362, 150101), (363, 150104), (366, 150113), (401, 150221), (408, 150236), (423, 150272), (438, 150329), (445, 150353), (451, 150368),

Gene: Philon9_10 Start: 8293, Stop: 10245, Start Num: 42
Candidate Starts for Philon9_10:
(41, 8287), (Start: 42 @8293 has 77 MA's), (56, 8350), (62, 8377), (78, 8422), (98, 8551), (99, 8554), (103, 8572), (110, 8626), (111, 8629), (112, 8632), (131, 8752), (135, 8779), (146, 8836), (149, 8860), (153, 8884), (174, 9001), (175, 9004), (207, 9175), (216, 9202), (218, 9214), (220, 9223), (226, 9262), (236, 9325), (254, 9418), (276, 9523), (291, 9592), (293, 9598), (308, 9688), (309, 9691), (311, 9715), (325, 9769), (332, 9808), (339, 9844), (340, 9847), (350, 9898), (361, 9970), (364, 9979), (367, 9988), (376, 10030), (398, 10078), (409, 10105), (435, 10192), (442, 10210), (443, 10213),

Gene: Phox_254 Start: 145479, Stop: 147695, Start Num: 16
Candidate Starts for Phox_254:
(2, 145197), (Start: 16 @145479 has 64 MA's), (35, 145545), (45, 145587), (51, 145611), (55, 145629), (64, 145668), (78, 145740), (82, 145755), (91, 145812), (93, 145818), (95, 145845), (105, 145920), (108, 145932), (121, 146007), (122, 146010), (134, 146118), (147, 146202), (150, 146229), (162, 146316), (196, 146490), (199, 146514), (211, 146571), (227, 146658), (244, 146766), (257, 146826), (286, 146937), (289, 146949), (292, 146958), (299, 147000), (309, 147057), (334, 147189), (338, 147204), (359, 147327), (361, 147354), (362, 147357), (363, 147360), (364, 147363), (379, 147420), (398, 147468), (421, 147528), (425, 147537), (457, 147648),

Gene: Phredrick_88 Start: 61729, Stop: 63552, Start Num: 22
Candidate Starts for Phredrick_88:
(9, 61675), (Start: 22 @61729 has 4 MA's), (Start: 29 @61741 has 86 MA's), (Start: 49 @61822 has 1 MA's), (53, 61840), (79, 61915), (99, 62041), (110, 62113), (156, 62389), (165, 62437), (167, 62440), (209, 62659), (227, 62722), (232, 62740), (267, 62920), (282, 62965), (303, 63064), (313, 63133), (315, 63142), (316, 63157), (325, 63178), (331, 63208), (333, 63214), (344, 63250), (352, 63283), (360, 63328), (397, 63448), (403, 63466), (421, 63505),

Gene: PierreThree_10 Start: 7069, Stop: 9045, Start Num: 42
Candidate Starts for PierreThree_10:
(Start: 42 @7069 has 77 MA's), (Start: 49 @7096 has 1 MA's), (74, 7183), (78, 7198), (85, 7231), (98, 7327), (99, 7330), (110, 7402), (111, 7405), (112, 7408), (131, 7534), (135, 7561), (166, 7744), (174, 7783), (184, 7837), (205, 7954), (216, 7984), (248, 8170), (276, 8305), (295, 8398), (304, 8437), (308, 8470), (309, 8473), (325, 8551), (337, 8614), (338, 8620), (339, 8626), (340, 8629), (345, 8659), (350,

8680), (352, 8689), (365, 8764), (369, 8776), (392, 8851), (415, 8902), (436, 8983), (456, 9037),

Gene: PinkiePie_95 Start: 69171, Stop: 70991, Start Num: 29
Candidate Starts for PinkiePie_95:
(Start: 29 @69171 has 86 MA's), (38, 69204), (Start: 49 @69252 has 1 MA's), (54, 69276), (61, 69285), (101, 69480), (145, 69738), (156, 69819), (232, 70170), (253, 70293), (283, 70404), (305, 70500), (313, 70563), (325, 70608), (329, 70632), (349, 70698), (352, 70713), (360, 70758), (401, 70893), (412, 70914), (420, 70941), (421, 70944),

Gene: Pio_260 Start: 147558, Stop: 149774, Start Num: 16
Candidate Starts for Pio_260:
(2, 147276), (Start: 16 @147558 has 64 MA's), (35, 147624), (45, 147666), (51, 147690), (55, 147708), (64, 147747), (78, 147819), (82, 147834), (91, 147891), (93, 147897), (95, 147924), (105, 147999), (108, 148011), (121, 148086), (122, 148089), (134, 148197), (147, 148281), (150, 148308), (162, 148395), (196, 148569), (199, 148593), (211, 148650), (227, 148737), (244, 148845), (257, 148905), (286, 149016), (289, 149028), (292, 149037), (299, 149079), (309, 149136), (334, 149268), (338, 149283), (359, 149406), (361, 149433), (362, 149436), (363, 149439), (364, 149442), (379, 149499), (398, 149547), (421, 149607), (425, 149616), (457, 149727),

Gene: Pleione_257 Start: 146290, Stop: 148506, Start Num: 16
Candidate Starts for Pleione_257:
(2, 146008), (Start: 16 @146290 has 64 MA's), (35, 146356), (45, 146398), (51, 146422), (55, 146440), (64, 146479), (78, 146551), (82, 146566), (91, 146623), (93, 146629), (95, 146656), (105, 146731), (108, 146743), (121, 146818), (122, 146821), (134, 146929), (147, 147013), (150, 147040), (162, 147127), (196, 147301), (199, 147325), (211, 147382), (227, 147469), (244, 147577), (257, 147637), (286, 147748), (289, 147760), (292, 147769), (299, 147811), (309, 147868), (334, 148000), (338, 148015), (359, 148138), (361, 148165), (362, 148168), (363, 148171), (364, 148174), (379, 148231), (398, 148279), (421, 148339), (425, 148348), (457, 148459),

Gene: PokyPuppy_9 Start: 6967, Stop: 8940, Start Num: 42
Candidate Starts for PokyPuppy_9:
(Start: 42 @6967 has 77 MA's), (Start: 49 @6994 has 1 MA's), (78, 7096), (85, 7129), (98, 7225), (99, 7228), (110, 7300), (111, 7303), (112, 7306), (131, 7432), (135, 7459), (146, 7516), (166, 7642), (174, 7681), (183, 7729), (184, 7735), (189, 7774), (205, 7852), (216, 7882), (248, 8068), (276, 8203), (304, 8335), (308, 8368), (309, 8371), (315, 8413), (329, 8479), (337, 8512), (339, 8524), (340, 8527), (360, 8638), (365, 8662), (369, 8674), (392, 8749), (415, 8797), (443, 8896), (456, 8932),

Gene: Poland_11 Start: 7240, Stop: 9213, Start Num: 42
Candidate Starts for Poland_11:
(39, 7222), (Start: 42 @7240 has 77 MA's), (Start: 49 @7267 has 1 MA's), (74, 7354), (78, 7369), (80, 7378), (85, 7402), (98, 7498), (99, 7501), (108, 7561), (110, 7573), (111, 7576), (112, 7579), (131, 7705), (135, 7732), (146, 7789), (166, 7915), (174, 7954), (183, 8002), (184, 8008), (205, 8125), (216, 8155), (248, 8341), (276, 8476), (295, 8569), (304, 8608), (308, 8641), (315, 8686), (325, 8722), (337, 8785), (338, 8791), (339, 8797), (340, 8800), (345, 8830), (365, 8935), (369, 8947), (415, 9070), (443, 9169), (456, 9205),

Gene: PumpkinSpice_99 Start: 69261, Stop: 71081, Start Num: 29
Candidate Starts for PumpkinSpice_99:
(Start: 27 @69258 has 22 MA's), (Start: 29 @69261 has 86 MA's), (53, 69360), (54, 69366), (99, 69561), (101, 69570), (133, 69765), (156, 69909), (158, 69924), (206, 70158), (227, 70242), (232, 70260), (253, 70383), (266, 70434), (269, 70449), (283, 70494), (284, 70497), (287, 70509), (305, 70590), (313, 70653), (320, 70689), (329, 70722), (350, 70794), (352, 70803), (360, 70848), (412, 71004), (421, 71034),

Gene: Pupper_174 Start: 126973, Stop: 129177, Start Num: 18
Candidate Starts for Pupper_174:
(3, 126796), (4, 126799), (5, 126823), (Start: 18 @126973 has 2 MA's), (32, 127009), (Start: 34 @127018 has 1 MA's), (52, 127087), (64, 127141), (69, 127162), (78, 127213), (92, 127288), (93, 127291), (101, 127354), (107, 127402), (110, 127417), (121, 127480), (132, 127576), (134, 127591), (149, 127693), (150, 127702), (152, 127708), (162, 127789), (173, 127828), (180, 127864), (184, 127894), (197, 127975), (200, 127990), (213, 128044), (227, 128128), (230, 128137), (241, 128221), (242, 128224), (244, 128233), (250, 128263), (251, 128266), (271, 128365), (286, 128488), (299, 128551), (307, 128599), (319, 128674), (323, 128683), (363, 128902), (366, 128911), (401, 129022), (411, 129040), (420, 129064), (421, 129067), (433, 129106), (446, 129151),

Gene: PurduePete_254 Start: 147004, Stop: 149220, Start Num: 16
Candidate Starts for PurduePete_254:
(2, 146722), (Start: 16 @147004 has 64 MA's), (35, 147070), (45, 147112), (51, 147136), (55, 147154), (64, 147193), (78, 147265), (82, 147280), (91, 147337), (93, 147343), (95, 147370), (105, 147445), (108, 147457), (121, 147532), (122, 147535), (134, 147643), (147, 147727), (150, 147754), (162, 147841), (196, 148015), (199, 148039), (211, 148096), (227, 148183), (244, 148291), (257, 148351), (286, 148462), (289, 148474), (292, 148483), (299, 148525), (309, 148582), (338, 148729), (359, 148852), (361, 148879), (362, 148882), (363, 148885), (364, 148888), (379, 148945), (398, 148993), (421, 149053), (425, 149062), (457, 149173),

Gene: PynkPanther_95 Start: 69151, Stop: 70971, Start Num: 29
Candidate Starts for PynkPanther_95:
(Start: 29 @69151 has 86 MA's), (38, 69184), (Start: 49 @69232 has 1 MA's), (54, 69256), (61, 69265), (101, 69460), (145, 69718), (156, 69799), (232, 70150), (253, 70273), (283, 70384), (305, 70480), (313, 70543), (325, 70588), (329, 70612), (349, 70678), (352, 70693), (360, 70738), (401, 70873), (420, 70921), (421, 70924),

Gene: Quaran19_99 Start: 69252, Stop: 71072, Start Num: 29
Candidate Starts for Quaran19_99:
(Start: 27 @69249 has 22 MA's), (Start: 29 @69252 has 86 MA's), (53, 69351), (54, 69357), (99, 69552), (101, 69561), (133, 69756), (156, 69900), (158, 69915), (206, 70149), (227, 70233), (232, 70251), (253, 70374), (266, 70425), (269, 70440), (283, 70485), (284, 70488), (287, 70500), (305, 70581), (313, 70644), (320, 70680), (329, 70713), (350, 70785), (352, 70794), (360, 70839), (412, 70995), (421, 71025),

Gene: RedWattleHog_1 Start: 1, Stop: 2160, Start Num: 13
Candidate Starts for RedWattleHog_1:
(Start: 13 @1 has 2 MA's), (Start: 30 @58 has 5 MA's), (Start: 34 @76 has 1 MA's), (Start: 42 @109 has 77 MA's), (58, 172), (64, 202), (75, 262), (78, 274), (101, 415), (104, 451), (109, 475), (132, 637), (141, 694), (150, 763), (171, 880), (180, 925), (197, 1045), (199, 1054), (227, 1153), (228, 1156), (238, 1219), (244, 1258), (246, 1270), (299, 1504), (307, 1552), (312, 1591), (319, 1627), (321, 1633), (330, 1675), (347, 1789), (368, 1900), (375, 1936),

Gene: RemRem_10 Start: 7086, Stop: 9059, Start Num: 42
Candidate Starts for RemRem_10:
(39, 7068), (Start: 42 @7086 has 77 MA's), (Start: 49 @7113 has 1 MA's), (74, 7200), (78, 7215), (80, 7224), (85, 7248), (98, 7344), (99, 7347), (108, 7407), (110, 7419), (111, 7422), (112, 7425), (131, 7551), (135, 7578), (166, 7761), (174, 7800), (183, 7848), (184, 7854), (205, 7971), (216, 8001), (248, 8187), (276, 8322), (295, 8415), (304, 8454), (308, 8487), (315, 8532), (325, 8568), (337, 8631), (338, 8637), (339, 8643), (340, 8646), (345, 8676), (365, 8781), (369, 8793), (415, 8916), (443, 9015), (456, 9051),

Gene: Reynauld_15 Start: 9188, Stop: 11233, Start Num: 23
Candidate Starts for Reynauld_15:
(Start: 23 @9188 has 2 MA's), (47, 9263), (50, 9275), (59, 9314), (62, 9326), (70, 9359), (73, 9383), (95, 9509), (98, 9533), (99, 9536), (103, 9554), (110, 9608), (112, 9614), (126, 9704), (134, 9755), (138, 9773), (156, 9893), (172, 9965), (174, 9980), (178, 10001), (186, 10064), (197, 10127), (204, 10157), (205, 10160), (212, 10184), (226, 10247), (256, 10415), (276, 10493), (283, 10532), (287, 10547), (291, 10562), (297, 10595), (302, 10619), (339, 10814), (361, 10943), (369, 10967), (386, 11033), (389, 11039), (419, 11117), (429, 11147), (439, 11186), (452, 11222),

Gene: Rikishi_99 Start: 69167, Stop: 70987, Start Num: 29
Candidate Starts for Rikishi_99:
(Start: 27 @69164 has 22 MA's), (Start: 29 @69167 has 86 MA's), (53, 69266), (54, 69272), (99, 69467), (101, 69476), (133, 69671), (156, 69815), (158, 69830), (206, 70064), (227, 70148), (232, 70166), (253, 70289), (266, 70340), (269, 70355), (283, 70400), (284, 70403), (287, 70415), (305, 70496), (313, 70559), (320, 70595), (329, 70628), (350, 70700), (352, 70709), (360, 70754), (412, 70910), (421, 70940),

Gene: Riptide_93 Start: 67745, Stop: 69565, Start Num: 29
Candidate Starts for Riptide_93:
(Start: 29 @67745 has 86 MA's), (38, 67778), (54, 67850), (61, 67859), (100, 68051), (156, 68393), (158, 68408), (201, 68624), (206, 68642), (232, 68744), (253, 68867), (283, 68978), (305, 69074), (309, 69104), (313, 69137), (325, 69182), (329, 69206), (336, 69236), (344, 69254), (348, 69269), (352, 69287), (360, 69332), (420, 69515), (421, 69518),

Gene: RobinSparkles_14 Start: 7088, Stop: 9112, Start Num: 10
Candidate Starts for RobinSparkles_14:
(Start: 10 @7088 has 5 MA's), (59, 7253), (67, 7286), (72, 7310), (73, 7322), (80, 7352), (90, 7412), (97, 7463), (98, 7472), (99, 7475), (103, 7493), (110, 7547), (112, 7553), (118, 7586), (120, 7607), (121, 7610), (126, 7643), (131, 7685), (135, 7712), (145, 7766), (168, 7898), (169, 7904), (170, 7913), (174, 7934), (186, 7988), (205, 8084), (210, 8108), (273, 8405), (275, 8411), (276, 8417), (291, 8486), (293, 8492), (297, 8519), (313, 8618), (325, 8663), (329, 8693), (351, 8795), (355, 8816), (365, 8876), (368, 8885), (369, 8888), (385, 8945), (399, 8963), (416, 8990), (424, 9014), (448, 9095), (450, 9101),

Gene: Roots515_256 Start: 147106, Stop: 149322, Start Num: 16
Candidate Starts for Roots515_256:
(2, 146824), (Start: 16 @147106 has 64 MA's), (35, 147172), (45, 147214), (51, 147238), (55, 147256), (64, 147295), (78, 147367), (82, 147382), (91, 147439), (93, 147445), (95, 147472), (105, 147547), (108, 147559), (121, 147634), (122, 147637), (134, 147745), (147, 147829), (150, 147856), (162, 147943), (196, 148117), (199, 148141), (211, 148198), (227, 148285), (244, 148393), (257, 148453), (286, 148564), (289, 148576), (292, 148585), (299, 148627), (309, 148684), (334, 148816), (338, 148831), (359, 148954), (361, 148981), (362, 148984), (363, 148987), (364, 148990), (379, 149047), (398, 149095), (421, 149155), (425, 149164), (457, 149275),

Gene: RoyalG_11 Start: 7284, Stop: 9248, Start Num: 42
Candidate Starts for RoyalG_11:
(Start: 42 @7284 has 77 MA's), (Start: 49 @7311 has 1 MA's), (74, 7398), (78, 7413), (85, 7446), (90, 7482), (98, 7542), (99, 7545), (103, 7563), (110, 7617), (111, 7620), (112, 7623), (129, 7737), (131, 7749), (135, 7776), (174, 7998), (184, 8052), (205, 8169), (216, 8199), (248, 8385), (276, 8520), (295, 8613), (304, 8652), (308, 8685), (309, 8688), (315, 8730), (329, 8796), (337, 8829), (338, 8835), (339, 8841), (340, 8844), (345, 8874), (365, 8979), (369, 8991), (394, 9063), (415, 9105), (417, 9117), (436, 9186), (443, 9204), (456, 9240),

Gene: SCentae_173 Start: 127166, Stop: 129370, Start Num: 18
Candidate Starts for SCentae_173:
(3, 126989), (4, 126992), (5, 127016), (Start: 18 @127166 has 2 MA's), (32, 127202), (Start: 34 @127211 has 1 MA's), (52, 127280), (64, 127334), (69, 127355), (78, 127406), (92, 127481), (93, 127484), (101, 127547), (107, 127595), (110, 127610), (121, 127673), (132, 127769), (134, 127784), (149, 127886), (150, 127895), (152, 127901), (162, 127982), (173, 128021), (180, 128057), (184, 128087), (197, 128168), (200, 128183), (213, 128237), (227, 128321), (230, 128330), (241, 128414), (242, 128417), (244, 128426), (250, 128456), (251, 128459), (271, 128558), (286, 128681), (299, 128744), (307, 128792), (319, 128867), (323, 128876), (363, 129095), (366, 129104), (401, 129215), (411, 129233), (420, 129257), (421, 129260), (433, 129299), (446, 129344),

Gene: SVoro_248 Start: 145863, Stop: 148079, Start Num: 16
Candidate Starts for SVoro_248:
(2, 145581), (Start: 16 @145863 has 64 MA's), (35, 145929), (45, 145971), (51, 145995), (55, 146013), (64, 146052), (78, 146124), (82, 146139), (91, 146196), (93, 146202), (95, 146229), (105, 146304), (108, 146316), (121, 146391), (122, 146394), (134, 146502), (147, 146586), (150, 146613), (162, 146700), (196, 146874), (199, 146898), (211, 146955), (227, 147042), (244, 147150), (257, 147210), (286, 147321), (289, 147333), (292, 147342), (299, 147384), (309, 147441), (338, 147588), (359, 147711), (361, 147738), (362, 147741), (363, 147744), (364, 147747), (379, 147804), (398, 147852), (421, 147912), (425, 147921), (457, 148032),

Gene: Salacia_255 Start: 147430, Stop: 149646, Start Num: 16
Candidate Starts for Salacia_255:
(2, 147148), (Start: 16 @147430 has 64 MA's), (35, 147496), (45, 147538), (51, 147562), (55, 147580), (64, 147619), (78, 147691), (82, 147706), (91, 147763), (93, 147769), (95, 147796), (105, 147871), (108, 147883), (121, 147958), (122, 147961), (134, 148069), (147, 148153), (150, 148180), (162, 148267), (196, 148441), (199, 148465), (211, 148522), (227, 148609), (244, 148717), (257, 148777), (286, 148888), (289, 148900), (292, 148909), (299, 148951), (309, 149008), (334, 149140), (338, 149155), (359, 149278), (361, 149305), (362, 149308), (363, 149311), (364, 149314), (379, 149371), (398, 149419), (421, 149479), (425, 149488), (457, 149599),

Gene: SaltySpitoon_99 Start: 69261, Stop: 71081, Start Num: 29
Candidate Starts for SaltySpitoon_99:
(Start: 27 @69258 has 22 MA's), (Start: 29 @69261 has 86 MA's), (53, 69360), (54, 69366), (99, 69561), (101, 69570), (133, 69765), (156, 69909), (158, 69924), (206, 70158), (227, 70242), (232, 70260), (253, 70383), (266, 70434), (269, 70449), (283, 70494), (284, 70497), (287, 70509), (305, 70590), (313, 70653), (320, 70689), (329, 70722), (350, 70794), (352, 70803), (360, 70848), (412, 71004), (421, 71034),

Gene: Sam12_10 Start: 7086, Stop: 9059, Start Num: 42
Candidate Starts for Sam12_10:
(33, 7053), (39, 7068), (Start: 42 @7086 has 77 MA's), (Start: 49 @7113 has 1 MA's), (74, 7200), (78, 7215), (80, 7224), (85, 7248), (98, 7344), (99, 7347), (108, 7407), (110, 7419), (111, 7422), (112, 7425), (131, 7551), (135, 7578), (146, 7635), (166, 7761), (174, 7800), (183, 7848), (184, 7854), (205, 7971), (216, 8001), (248, 8187), (259, 8247), (276, 8322), (295, 8415), (304, 8454), (308, 8487), (315, 8532), (325, 8568), (337, 8631), (338, 8637), (339, 8643), (340, 8646), (345, 8676), (365, 8781), (369, 8793), (415, 8916), (443, 9015), (456, 9051),

Gene: Samisti12_96 Start: 70214, Stop: 72034, Start Num: 29
Candidate Starts for Samisti12_96:
(Start: 29 @70214 has 86 MA's), (38, 70247), (Start: 49 @70295 has 1 MA's), (54, 70319), (61, 70328), (93, 70460), (100, 70520), (156, 70862), (206, 71111), (232, 71213), (238, 71258), (283, 71447), (287, 71462), (305, 71543), (309, 71573), (313, 71606), (325, 71651), (329, 71675), (336, 71705), (344,

71723), (348, 71738), (352, 71756), (360, 71801), (401, 71936), (415, 71966), (421, 71987),

Gene: Scheme_97 Start: 69619, Stop: 71439, Start Num: 29
Candidate Starts for Scheme_97:
(Start: 29 @69619 has 86 MA's), (38, 69652), (Start: 49 @69700 has 1 MA's), (54, 69724), (61, 69733), (93, 69865), (100, 69925), (156, 70267), (206, 70516), (232, 70618), (238, 70663), (283, 70852), (287, 70867), (305, 70948), (309, 70978), (313, 71011), (325, 71056), (329, 71080), (336, 71110), (344, 71128), (348, 71143), (352, 71161), (360, 71206), (401, 71341), (415, 71371), (421, 71392),

Gene: ScoobyDoobyDoo_242 Start: 145108, Stop: 147399, Start Num: 12
Candidate Starts for ScoobyDoobyDoo_242:
(Start: 12 @145108 has 3 MA's), (50, 145240), (63, 145297), (76, 145366), (78, 145372), (89, 145438), (93, 145450), (105, 145552), (108, 145564), (109, 145573), (121, 145639), (125, 145672), (132, 145735), (133, 145741), (136, 145756), (152, 145867), (155, 145900), (157, 145912), (167, 145957), (178, 146017), (180, 146023), (187, 146083), (188, 146089), (189, 146095), (197, 146143), (198, 146149), (199, 146152), (211, 146209), (222, 146254), (227, 146296), (241, 146389), (244, 146401), (283, 146632), (298, 146698), (299, 146707), (319, 146827), (326, 146854), (338, 146911), (343, 146947), (356, 146998), (362, 147052), (363, 147055), (401, 147172), (408, 147187), (423, 147223),

Gene: Sebata_253 Start: 146149, Stop: 148365, Start Num: 16
Candidate Starts for Sebata_253:
(Start: 16 @146149 has 64 MA's), (35, 146215), (45, 146257), (51, 146281), (55, 146299), (64, 146338), (78, 146410), (82, 146425), (91, 146482), (93, 146488), (95, 146515), (105, 146590), (108, 146602), (121, 146677), (122, 146680), (134, 146788), (147, 146872), (150, 146899), (162, 146986), (196, 147160), (199, 147184), (211, 147241), (227, 147328), (244, 147436), (257, 147496), (286, 147607), (289, 147619), (299, 147670), (309, 147727), (338, 147874), (359, 147997), (361, 148024), (362, 148027), (363, 148030), (364, 148033), (379, 148090), (398, 148138), (421, 148198), (425, 148207), (457, 148318),

Gene: SeresaTree_88 Start: 63022, Stop: 64833, Start Num: 27
Candidate Starts for SeresaTree_88:
(Start: 27 @63022 has 22 MA's), (Start: 34 @63046 has 1 MA's), (35, 63049), (Start: 49 @63106 has 1 MA's), (84, 63220), (88, 63250), (100, 63331), (101, 63334), (133, 63529), (134, 63535), (156, 63673), (221, 63973), (232, 64024), (249, 64132), (267, 64204), (313, 64417), (316, 64441), (325, 64462), (329, 64486), (331, 64492), (344, 64534), (352, 64567), (421, 64786), (426, 64798),

Gene: Sham_82 Start: 62774, Stop: 64582, Start Num: 27
Candidate Starts for Sham_82:
(Start: 27 @62774 has 22 MA's), (35, 62798), (Start: 49 @62855 has 1 MA's), (84, 62969), (88, 62999), (100, 63080), (133, 63278), (134, 63284), (149, 63368), (156, 63422), (221, 63722), (232, 63773), (249, 63881), (267, 63953), (282, 63998), (313, 64166), (329, 64235), (331, 64241), (352, 64316), (421, 64535), (426, 64547),

Gene: Shelley_7 Start: 6322, Stop: 8298, Start Num: 42
Candidate Starts for Shelley_7:
(41, 6316), (Start: 42 @6322 has 77 MA's), (56, 6379), (74, 6436), (78, 6451), (81, 6463), (98, 6580), (110, 6655), (111, 6658), (112, 6661), (129, 6775), (131, 6787), (146, 6871), (160, 6973), (166, 6997), (174, 7036), (184, 7090), (202, 7192), (216, 7237), (220, 7258), (256, 7471), (276, 7558), (337, 7867), (339, 7879), (340, 7882), (350, 7933), (352, 7942), (365, 8017), (369, 8029), (370, 8035), (382, 8080), (396, 8113), (415, 8155), (446, 8263), (458, 8293),

Gene: Shelob_254 Start: 147424, Stop: 149640, Start Num: 16
Candidate Starts for Shelob_254:

(2, 147142), (Start: 16 @147424 has 64 MA's), (35, 147490), (45, 147532), (51, 147556), (55, 147574), (64, 147613), (78, 147685), (82, 147700), (91, 147757), (93, 147763), (95, 147790), (105, 147865), (108, 147877), (121, 147952), (122, 147955), (134, 148063), (147, 148147), (150, 148174), (162, 148261), (196, 148435), (199, 148459), (211, 148516), (227, 148603), (244, 148711), (257, 148771), (286, 148882), (289, 148894), (292, 148903), (299, 148945), (309, 149002), (334, 149134), (338, 149149), (359, 149272), (361, 149299), (362, 149302), (363, 149305), (364, 149308), (379, 149365), (398, 149413), (421, 149473), (425, 149482), (457, 149593),

Gene: ShiaLabeouf_251 Start: 145283, Stop: 147499, Start Num: 16
Candidate Starts for ShiaLabeouf_251:
(2, 145001), (Start: 16 @145283 has 64 MA's), (35, 145349), (45, 145391), (51, 145415), (55, 145433), (64, 145472), (78, 145544), (82, 145559), (91, 145616), (93, 145622), (95, 145649), (105, 145724), (108, 145736), (121, 145811), (122, 145814), (134, 145922), (147, 146006), (150, 146033), (162, 146120), (196, 146294), (199, 146318), (211, 146375), (227, 146462), (244, 146570), (257, 146630), (286, 146741), (289, 146753), (292, 146762), (299, 146804), (309, 146861), (334, 146993), (338, 147008), (359, 147131), (361, 147158), (362, 147161), (363, 147164), (364, 147167), (379, 147224), (398, 147272), (421, 147332), (425, 147341), (457, 147452),

Gene: Shifa_229 Start: 144757, Stop: 146973, Start Num: 16
Candidate Starts for Shifa_229:
(Start: 16 @144757 has 64 MA's), (35, 144823), (45, 144865), (51, 144889), (55, 144907), (64, 144946), (78, 145018), (82, 145033), (91, 145090), (93, 145096), (95, 145123), (105, 145198), (108, 145210), (121, 145285), (122, 145288), (134, 145396), (147, 145480), (150, 145507), (162, 145594), (196, 145768), (199, 145792), (211, 145849), (227, 145936), (244, 146044), (257, 146104), (286, 146215), (289, 146227), (299, 146278), (309, 146335), (338, 146482), (359, 146605), (361, 146632), (362, 146635), (363, 146638), (364, 146641), (379, 146698), (398, 146746), (421, 146806), (425, 146815), (457, 146926),

Gene: Shnickers_252 Start: 145347, Stop: 147563, Start Num: 16
Candidate Starts for Shnickers_252:
(2, 145065), (Start: 16 @145347 has 64 MA's), (35, 145413), (45, 145455), (51, 145479), (55, 145497), (64, 145536), (78, 145608), (82, 145623), (91, 145680), (93, 145686), (95, 145713), (105, 145788), (108, 145800), (121, 145875), (122, 145878), (134, 145986), (147, 146070), (150, 146097), (162, 146184), (196, 146358), (199, 146382), (211, 146439), (227, 146526), (244, 146634), (257, 146694), (286, 146805), (289, 146817), (292, 146826), (299, 146868), (309, 146925), (334, 147057), (338, 147072), (359, 147195), (361, 147222), (362, 147225), (363, 147228), (364, 147231), (379, 147288), (398, 147336), (421, 147396), (425, 147405), (457, 147516),

Gene: Shrimp_256 Start: 147041, Stop: 149257, Start Num: 16
Candidate Starts for Shrimp_256:
(2, 146759), (Start: 16 @147041 has 64 MA's), (35, 147107), (45, 147149), (51, 147173), (55, 147191), (64, 147230), (78, 147302), (82, 147317), (91, 147374), (93, 147380), (95, 147407), (105, 147482), (108, 147494), (121, 147569), (122, 147572), (134, 147680), (147, 147764), (150, 147791), (162, 147878), (196, 148052), (199, 148076), (211, 148133), (227, 148220), (244, 148328), (257, 148388), (286, 148499), (289, 148511), (299, 148562), (309, 148619), (338, 148766), (359, 148889), (361, 148916), (362, 148919), (363, 148922), (364, 148925), (379, 148982), (398, 149030), (421, 149090), (425, 149099), (457, 149210),

Gene: Shuckle_94 Start: 69227, Stop: 71047, Start Num: 29
Candidate Starts for Shuckle_94:
(Start: 29 @69227 has 86 MA's), (38, 69260), (Start: 49 @69308 has 1 MA's), (54, 69332), (61, 69341), (93, 69473), (100, 69533), (102, 69539), (156, 69875), (206, 70124), (232, 70226), (253, 70349), (272, 70427), (283, 70460), (287, 70475), (305, 70556), (309, 70586), (313, 70619), (325, 70664), (329,

70688), (336, 70718), (344, 70736), (348, 70751), (350, 70760), (352, 70769), (360, 70814), (401, 70949), (415, 70979), (421, 71000), (426, 71012),

Gene: Skog_6 Start: 3539, Stop: 5740, Start Num: 17
Candidate Starts for Skog_6:
(Start: 17 @3539 has 1 MA's), (32, 3575), (Start: 34 @3584 has 1 MA's), (52, 3653), (64, 3707), (69, 3728), (71, 3746), (74, 3764), (92, 3854), (93, 3857), (101, 3920), (107, 3968), (110, 3983), (121, 4046), (132, 4142), (134, 4157), (149, 4259), (150, 4268), (152, 4274), (162, 4355), (173, 4394), (178, 4424), (180, 4430), (184, 4460), (197, 4541), (200, 4556), (211, 4607), (213, 4610), (222, 4652), (227, 4694), (230, 4703), (241, 4787), (242, 4790), (244, 4799), (250, 4829), (271, 4931), (286, 5054), (299, 5117), (319, 5240), (363, 5468), (401, 5588), (411, 5606), (420, 5630), (421, 5633), (433, 5672), (442, 5702), (446, 5714),

Gene: Sollertia_100 Start: 69201, Stop: 71024, Start Num: 27
Candidate Starts for Sollertia_100:
(Start: 27 @69201 has 22 MA's), (Start: 29 @69204 has 86 MA's), (53, 69303), (54, 69309), (101, 69513), (156, 69852), (203, 70092), (232, 70203), (249, 70311), (253, 70326), (266, 70377), (284, 70440), (288, 70455), (290, 70464), (305, 70533), (313, 70596), (325, 70641), (336, 70695), (352, 70746), (360, 70791), (365, 70815), (384, 70884), (421, 70977),

Gene: Sombrero_10 Start: 7120, Stop: 9093, Start Num: 42
Candidate Starts for Sombrero_10:
(39, 7102), (Start: 42 @7120 has 77 MA's), (Start: 49 @7147 has 1 MA's), (74, 7234), (78, 7249), (80, 7258), (85, 7282), (98, 7378), (99, 7381), (108, 7441), (110, 7453), (111, 7456), (112, 7459), (131, 7585), (135, 7612), (146, 7669), (166, 7795), (174, 7834), (183, 7882), (184, 7888), (205, 8005), (216, 8035), (248, 8221), (276, 8356), (295, 8449), (304, 8488), (308, 8521), (315, 8566), (325, 8602), (337, 8665), (338, 8671), (339, 8677), (340, 8680), (345, 8710), (365, 8815), (369, 8827), (415, 8950), (443, 9049), (456, 9085),

Gene: SparkleGoddess_88 Start: 63763, Stop: 65577, Start Num: 27
Candidate Starts for SparkleGoddess_88:
(Start: 27 @63763 has 22 MA's), (36, 63796), (79, 63940), (81, 63949), (88, 63991), (99, 64066), (101, 64075), (156, 64414), (167, 64465), (219, 64711), (221, 64714), (232, 64765), (282, 64990), (287, 65014), (288, 65017), (313, 65158), (316, 65182), (331, 65233), (344, 65275), (352, 65308), (379, 65428), (403, 65491), (421, 65530),

Gene: Spelly_100 Start: 69216, Stop: 71036, Start Num: 29
Candidate Starts for Spelly_100:
(Start: 27 @69213 has 22 MA's), (Start: 29 @69216 has 86 MA's), (53, 69315), (54, 69321), (99, 69516), (101, 69525), (133, 69720), (156, 69864), (158, 69879), (206, 70113), (227, 70197), (232, 70215), (253, 70338), (266, 70389), (269, 70404), (283, 70449), (284, 70452), (287, 70464), (305, 70545), (313, 70608), (320, 70644), (329, 70677), (350, 70749), (352, 70758), (360, 70803), (412, 70959), (421, 70989),

Gene: Spilled_101 Start: 69330, Stop: 71153, Start Num: 27
Candidate Starts for Spilled_101:
(Start: 27 @69330 has 22 MA's), (Start: 29 @69333 has 86 MA's), (53, 69432), (54, 69438), (99, 69633), (101, 69642), (133, 69837), (156, 69981), (158, 69996), (206, 70230), (227, 70314), (232, 70332), (253, 70455), (266, 70506), (269, 70521), (284, 70569), (287, 70581), (305, 70662), (313, 70725), (320, 70761), (329, 70794), (350, 70866), (352, 70875), (360, 70920), (365, 70944), (412, 71076), (421, 71106),

Gene: Squibbles_10 Start: 7074, Stop: 9047, Start Num: 42

Candidate Starts for Squibbles_10:
(39, 7056), (Start: 42 @7074 has 77 MA's), (45, 7086), (Start: 49 @7101 has 1 MA's), (74, 7188), (78, 7203), (80, 7212), (85, 7236), (98, 7332), (99, 7335), (108, 7395), (110, 7407), (111, 7410), (112, 7413), (131, 7539), (135, 7566), (146, 7623), (166, 7749), (174, 7788), (183, 7836), (184, 7842), (205, 7959), (216, 7989), (248, 8175), (276, 8310), (295, 8403), (304, 8442), (308, 8475), (315, 8520), (325, 8556), (337, 8619), (338, 8625), (339, 8631), (340, 8634), (345, 8664), (365, 8769), (369, 8781), (415, 8904), (443, 9003), (456, 9039),

Gene: Squillium_96 Start: 69172, Stop: 70992, Start Num: 29
Candidate Starts for Squillium_96:
(Start: 29 @69172 has 86 MA's), (38, 69205), (Start: 49 @69253 has 1 MA's), (54, 69277), (61, 69286), (101, 69481), (145, 69739), (156, 69820), (232, 70171), (253, 70294), (283, 70405), (305, 70501), (313, 70564), (325, 70609), (329, 70633), (349, 70699), (352, 70714), (360, 70759), (401, 70894), (412, 70915), (420, 70942), (421, 70945),

Gene: Srilaccoli3_14 Start: 8949, Stop: 10991, Start Num: 23
Candidate Starts for Srilaccoli3_14:
(Start: 23 @8949 has 2 MA's), (47, 9024), (50, 9036), (59, 9075), (62, 9087), (70, 9120), (73, 9144), (95, 9270), (98, 9294), (99, 9297), (110, 9369), (112, 9375), (126, 9465), (134, 9516), (138, 9534), (156, 9654), (172, 9726), (174, 9741), (178, 9762), (186, 9825), (197, 9888), (204, 9918), (212, 9945), (256, 10176), (276, 10254), (283, 10293), (287, 10308), (291, 10323), (297, 10356), (339, 10575), (361, 10704), (369, 10728), (389, 10800), (419, 10875), (429, 10905), (439, 10944), (452, 10980),

Gene: SrishMeg2525_251 Start: 146536, Stop: 148752, Start Num: 16
Candidate Starts for SrishMeg2525_251:
(2, 146254), (Start: 16 @146536 has 64 MA's), (35, 146602), (45, 146644), (51, 146668), (55, 146686), (64, 146725), (78, 146797), (82, 146812), (91, 146869), (93, 146875), (95, 146902), (105, 146977), (108, 146989), (121, 147064), (122, 147067), (134, 147175), (147, 147259), (150, 147286), (162, 147373), (196, 147547), (199, 147571), (211, 147628), (227, 147715), (244, 147823), (257, 147883), (286, 147994), (289, 148006), (292, 148015), (299, 148057), (309, 148114), (334, 148246), (338, 148261), (359, 148384), (361, 148411), (362, 148414), (363, 148417), (364, 148420), (379, 148477), (398, 148525), (421, 148585), (425, 148594), (457, 148705),

Gene: Stanimal_100 Start: 69093, Stop: 70913, Start Num: 29
Candidate Starts for Stanimal_100:
(Start: 27 @69090 has 22 MA's), (Start: 29 @69093 has 86 MA's), (53, 69192), (54, 69198), (101, 69402), (156, 69741), (203, 69981), (232, 70092), (249, 70200), (253, 70215), (266, 70266), (284, 70329), (288, 70344), (290, 70353), (305, 70422), (313, 70485), (325, 70530), (336, 70584), (352, 70635), (360, 70680), (365, 70704), (384, 70773), (421, 70866),

Gene: StarPlatinum_100 Start: 69769, Stop: 71589, Start Num: 29
Candidate Starts for StarPlatinum_100:
(Start: 27 @69766 has 22 MA's), (Start: 29 @69769 has 86 MA's), (Start: 49 @69850 has 1 MA's), (53, 69868), (54, 69874), (101, 70078), (133, 70273), (134, 70279), (145, 70336), (156, 70417), (206, 70666), (227, 70750), (232, 70768), (249, 70876), (253, 70891), (269, 70957), (284, 71005), (305, 71098), (309, 71128), (313, 71161), (315, 71170), (322, 71200), (325, 71206), (350, 71302), (352, 71311), (360, 71356), (361, 71368), (421, 71542),

Gene: Starbow_98 Start: 69234, Stop: 71057, Start Num: 27
Candidate Starts for Starbow_98:
(Start: 27 @69234 has 22 MA's), (Start: 29 @69237 has 86 MA's), (53, 69336), (54, 69342), (99, 69537), (101, 69546), (133, 69741), (156, 69885), (158, 69900), (206, 70134), (227, 70218), (232, 70236), (253, 70359), (266, 70410), (269, 70425), (283, 70470), (284, 70473), (287, 70485), (305,

70566), (313, 70629), (320, 70665), (329, 70698), (350, 70770), (352, 70779), (360, 70824), (412, 70980), (421, 71010),

Gene: SteveFrench_9 Start: 6878, Stop: 8842, Start Num: 42
Candidate Starts for SteveFrench_9:
(Start: 42 @6878 has 77 MA's), (Start: 49 @6905 has 1 MA's), (74, 6992), (78, 7007), (85, 7040), (98, 7136), (99, 7139), (110, 7211), (111, 7214), (112, 7217), (129, 7331), (131, 7343), (135, 7370), (146, 7427), (174, 7592), (184, 7646), (205, 7763), (216, 7793), (248, 7979), (276, 8114), (295, 8207), (304, 8246), (308, 8279), (309, 8282), (329, 8390), (337, 8423), (338, 8429), (339, 8435), (340, 8438), (345, 8468), (365, 8573), (369, 8585), (394, 8657), (415, 8699), (417, 8711), (436, 8780), (443, 8798), (456, 8834),

Gene: Sticker17_7 Start: 6299, Stop: 8275, Start Num: 42
Candidate Starts for Sticker17_7:
(41, 6293), (Start: 42 @6299 has 77 MA's), (56, 6356), (74, 6413), (78, 6428), (81, 6440), (98, 6557), (99, 6560), (110, 6632), (111, 6635), (112, 6638), (129, 6752), (131, 6764), (135, 6791), (160, 6950), (166, 6974), (174, 7013), (184, 7067), (202, 7169), (216, 7214), (220, 7235), (256, 7448), (276, 7535), (295, 7628), (337, 7844), (339, 7856), (340, 7859), (350, 7910), (352, 7919), (365, 7994), (369, 8006), (370, 8012), (382, 8057), (396, 8090), (415, 8132), (458, 8270),

Gene: Stigma_87 Start: 63771, Stop: 65585, Start Num: 27
Candidate Starts for Stigma_87:
(Start: 27 @63771 has 22 MA's), (36, 63804), (79, 63948), (88, 63999), (99, 64074), (101, 64083), (156, 64422), (167, 64473), (219, 64719), (221, 64722), (232, 64773), (282, 64998), (287, 65022), (288, 65025), (313, 65166), (316, 65190), (331, 65241), (344, 65283), (352, 65316), (379, 65436), (403, 65499), (421, 65538),

Gene: Stormageddon_1 Start: 1, Stop: 2160, Start Num: 13
Candidate Starts for Stormageddon_1:
(Start: 13 @1 has 2 MA's), (Start: 30 @58 has 5 MA's), (Start: 34 @76 has 1 MA's), (Start: 42 @109 has 77 MA's), (58, 172), (64, 202), (75, 262), (78, 274), (101, 415), (104, 451), (109, 475), (132, 637), (141, 694), (150, 763), (171, 880), (180, 925), (197, 1045), (199, 1054), (227, 1153), (228, 1156), (238, 1219), (244, 1258), (246, 1270), (299, 1504), (307, 1552), (312, 1591), (319, 1627), (321, 1633), (330, 1675), (347, 1789), (368, 1900), (375, 1936),

Gene: Sushi23_95 Start: 69130, Stop: 70950, Start Num: 29
Candidate Starts for Sushi23_95:
(Start: 29 @69130 has 86 MA's), (38, 69163), (Start: 49 @69211 has 1 MA's), (54, 69235), (61, 69244), (93, 69376), (100, 69436), (156, 69778), (206, 70027), (232, 70129), (238, 70174), (253, 70252), (283, 70363), (287, 70378), (305, 70459), (309, 70489), (313, 70522), (325, 70567), (329, 70591), (336, 70621), (344, 70639), (348, 70654), (352, 70672), (360, 70717), (401, 70852), (415, 70882), (421, 70903), (426, 70915),

Gene: Targaryen_96 Start: 69840, Stop: 71660, Start Num: 29
Candidate Starts for Targaryen_96:
(Start: 29 @69840 has 86 MA's), (54, 69945), (61, 69954), (93, 70086), (100, 70146), (102, 70152), (145, 70407), (156, 70488), (206, 70737), (232, 70839), (242, 70914), (253, 70962), (283, 71073), (305, 71169), (313, 71232), (325, 71277), (329, 71301), (335, 71328), (336, 71331), (350, 71373), (352, 71382), (360, 71427), (379, 71502), (421, 71613),

Gene: Teal_7 Start: 6276, Stop: 8252, Start Num: 42
Candidate Starts for Teal_7:

(41, 6270), (Start: 42 @6276 has 77 MA's), (56, 6333), (74, 6390), (78, 6405), (81, 6417), (98, 6534), (99, 6537), (110, 6609), (111, 6612), (112, 6615), (129, 6729), (131, 6741), (135, 6768), (160, 6927), (166, 6951), (174, 6990), (184, 7044), (202, 7146), (216, 7191), (220, 7212), (256, 7425), (276, 7512), (337, 7821), (339, 7833), (340, 7836), (350, 7887), (352, 7896), (365, 7971), (369, 7983), (370, 7989), (382, 8034), (396, 8067), (415, 8109), (446, 8217), (458, 8247),

Gene: Teatealatte_10 Start: 8718, Stop: 10685, Start Num: 42
Candidate Starts for Teatealatte_10:
(Start: 42 @8718 has 77 MA's), (48, 8742), (56, 8775), (78, 8847), (90, 8916), (98, 8976), (99, 8979), (103, 8997), (110, 9051), (111, 9054), (112, 9057), (131, 9177), (135, 9204), (149, 9285), (153, 9309), (174, 9426), (175, 9429), (182, 9468), (202, 9582), (216, 9627), (220, 9648), (226, 9687), (236, 9750), (239, 9762), (255, 9846), (276, 9948), (290, 10014), (299, 10062), (308, 10113), (309, 10116), (311, 10140), (329, 10224), (339, 10269), (340, 10272), (350, 10323), (352, 10332), (361, 10395), (367, 10413), (372, 10437), (392, 10488), (435, 10614), (443, 10635),

Gene: Teech_10 Start: 8790, Stop: 10757, Start Num: 42
Candidate Starts for Teech_10:
(Start: 42 @8790 has 77 MA's), (48, 8814), (56, 8847), (78, 8919), (90, 8988), (97, 9039), (98, 9048), (99, 9051), (110, 9123), (111, 9126), (112, 9129), (131, 9249), (135, 9276), (149, 9357), (153, 9381), (174, 9498), (175, 9501), (182, 9540), (192, 9606), (202, 9654), (216, 9699), (220, 9720), (226, 9759), (236, 9822), (239, 9834), (255, 9918), (276, 10020), (290, 10086), (299, 10134), (308, 10185), (309, 10188), (311, 10212), (329, 10296), (339, 10341), (340, 10344), (350, 10395), (360, 10455), (361, 10467), (364, 10476), (367, 10485), (372, 10509), (392, 10560), (398, 10572), (409, 10599), (435, 10686), (442, 10704), (443, 10707), (454, 10737),

Gene: Teutsch_96 Start: 69393, Stop: 71213, Start Num: 29
Candidate Starts for Teutsch_96:
(Start: 29 @69393 has 86 MA's), (38, 69426), (Start: 49 @69474 has 1 MA's), (54, 69498), (61, 69507), (93, 69639), (100, 69699), (156, 70041), (206, 70290), (232, 70392), (238, 70437), (283, 70626), (287, 70641), (305, 70722), (309, 70752), (313, 70785), (325, 70830), (329, 70854), (336, 70884), (344, 70902), (348, 70917), (352, 70935), (360, 70980), (401, 71115), (415, 71145), (421, 71166),

Gene: TinyTim_252 Start: 145360, Stop: 147576, Start Num: 16
Candidate Starts for TinyTim_252:
(2, 145078), (Start: 16 @145360 has 64 MA's), (35, 145426), (45, 145468), (51, 145492), (55, 145510), (64, 145549), (78, 145621), (82, 145636), (91, 145693), (93, 145699), (95, 145726), (105, 145801), (108, 145813), (121, 145888), (122, 145891), (134, 145999), (147, 146083), (150, 146110), (162, 146197), (196, 146371), (199, 146395), (211, 146452), (227, 146539), (244, 146647), (257, 146707), (286, 146818), (289, 146830), (292, 146839), (299, 146881), (309, 146938), (334, 147070), (338, 147085), (359, 147208), (361, 147235), (362, 147238), (363, 147241), (364, 147244), (379, 147301), (398, 147349), (421, 147409), (425, 147418), (457, 147529),

Gene: TomSawyer_98 Start: 68849, Stop: 70672, Start Num: 27
Candidate Starts for TomSawyer_98:
(Start: 27 @68849 has 22 MA's), (Start: 29 @68852 has 86 MA's), (53, 68951), (54, 68957), (99, 69152), (101, 69161), (133, 69356), (156, 69500), (158, 69515), (206, 69749), (227, 69833), (232, 69851), (253, 69974), (266, 70025), (269, 70040), (283, 70085), (284, 70088), (287, 70100), (305, 70181), (313, 70244), (320, 70280), (329, 70313), (350, 70385), (352, 70394), (360, 70439), (412, 70595), (421, 70625),

Gene: Tomas_101 Start: 71300, Stop: 73120, Start Num: 29
Candidate Starts for Tomas_101:

(Start: 27 @71297 has 22 MA's), (Start: 29 @71300 has 86 MA's), (54, 71405), (99, 71600), (102, 71612), (133, 71804), (142, 71858), (145, 71867), (156, 71948), (185, 72098), (195, 72146), (206, 72197), (227, 72281), (232, 72299), (253, 72422), (267, 72479), (269, 72488), (272, 72500), (305, 72629), (313, 72692), (329, 72761), (345, 72812), (349, 72827), (360, 72887), (393, 72998), (401, 73022), (421, 73073), (426, 73085),

Gene: Tonenili_275 Start: 150692, Stop: 152905, Start Num: 19
Candidate Starts for Tonenili_275:
(Start: 19 @150692 has 1 MA's), (35, 150749), (55, 150833), (69, 150893), (78, 150944), (82, 150959), (89, 151010), (91, 151016), (92, 151019), (105, 151124), (108, 151136), (111, 151151), (112, 151154), (121, 151211), (122, 151214), (147, 151406), (150, 151433), (162, 151520), (199, 151721), (211, 151778), (222, 151823), (244, 151973), (251, 152006), (289, 152156), (292, 152165), (299, 152207), (301, 152213), (309, 152264), (338, 152411), (359, 152534), (361, 152561), (362, 152564), (363, 152567), (364, 152570), (379, 152627), (381, 152630), (388, 152648), (421, 152735), (425, 152744), (431, 152768), (444, 152816), (455, 152843),

Gene: Tortoise16_251 Start: 145373, Stop: 147589, Start Num: 16
Candidate Starts for Tortoise16_251:
(2, 145091), (Start: 16 @145373 has 64 MA's), (35, 145439), (45, 145481), (51, 145505), (55, 145523), (64, 145562), (78, 145634), (82, 145649), (91, 145706), (93, 145712), (95, 145739), (105, 145814), (108, 145826), (121, 145901), (122, 145904), (134, 146012), (147, 146096), (150, 146123), (162, 146210), (196, 146384), (199, 146408), (211, 146465), (227, 146552), (244, 146660), (257, 146720), (286, 146831), (289, 146843), (292, 146852), (299, 146894), (309, 146951), (334, 147083), (338, 147098), (359, 147221), (361, 147248), (362, 147251), (363, 147254), (364, 147257), (379, 147314), (398, 147362), (421, 147422), (425, 147431), (457, 147542),

Gene: Tredge_10 Start: 8718, Stop: 10685, Start Num: 42
Candidate Starts for Tredge_10:
(Start: 42 @8718 has 77 MA's), (48, 8742), (56, 8775), (78, 8847), (90, 8916), (98, 8976), (99, 8979), (103, 8997), (110, 9051), (111, 9054), (112, 9057), (131, 9177), (135, 9204), (149, 9285), (153, 9309), (174, 9426), (175, 9429), (182, 9468), (202, 9582), (216, 9627), (220, 9648), (226, 9687), (236, 9750), (239, 9762), (255, 9846), (276, 9948), (290, 10014), (299, 10062), (308, 10113), (309, 10116), (311, 10140), (329, 10224), (339, 10269), (340, 10272), (350, 10323), (352, 10332), (361, 10395), (367, 10413), (372, 10437), (392, 10488), (435, 10614), (443, 10635),

Gene: Tribute_94 Start: 68599, Stop: 70419, Start Num: 29
Candidate Starts for Tribute_94:
(Start: 29 @68599 has 86 MA's), (38, 68632), (Start: 49 @68680 has 1 MA's), (54, 68704), (61, 68713), (93, 68845), (100, 68905), (156, 69247), (206, 69496), (232, 69598), (238, 69643), (283, 69832), (287, 69847), (305, 69928), (309, 69958), (313, 69991), (325, 70036), (329, 70060), (336, 70090), (344, 70108), (348, 70123), (352, 70141), (360, 70186), (401, 70321), (415, 70351), (421, 70372),

Gene: Trina_116 Start: 77098, Stop: 78870, Start Num: 30
Candidate Starts for Trina_116:
(Start: 24 @77086 has 4 MA's), (25, 77089), (Start: 30 @77098 has 5 MA's), (40, 77140), (43, 77152), (46, 77164), (Start: 49 @77176 has 1 MA's), (53, 77194), (54, 77200), (62, 77215), (89, 77332), (92, 77341), (102, 77410), (112, 77476), (140, 77647), (142, 77656), (174, 77806), (175, 77809), (180, 77830), (206, 77971), (222, 78025), (229, 78070), (231, 78076), (267, 78259), (274, 78286), (275, 78292), (305, 78409), (306, 78418), (307, 78427), (312, 78466), (325, 78514), (345, 78589), (380, 78742), (391, 78772), (406, 78799), (413, 78808), (421, 78823),

Gene: Trogglehumper_29 Start: 15894, Stop: 17888, Start Num: 30
Candidate Starts for Trogglehumper_29:

(Start: 30 @15894 has 5 MA's), (77, 16074), (90, 16146), (98, 16206), (99, 16209), (101, 16218), (105, 16257), (110, 16281), (112, 16287), (124, 16371), (170, 16650), (174, 16671), (177, 16683), (197, 16785), (236, 16968), (238, 16977), (240, 16992), (252, 17049), (262, 17097), (276, 17157), (286, 17208), (287, 17211), (291, 17226), (297, 17259), (310, 17331), (311, 17349), (312, 17355), (313, 17358), (341, 17484), (345, 17511), (346, 17514), (358, 17574), (364, 17613), (365, 17616), (367, 17622), (374, 17655), (378, 17670), (389, 17697), (425, 17790), (427, 17796), (439, 17847),

Gene: Tuesday_103 Start: 69396, Stop: 71219, Start Num: 27
Candidate Starts for Tuesday_103:
(Start: 27 @69396 has 22 MA's), (Start: 29 @69399 has 86 MA's), (53, 69498), (54, 69504), (99, 69699), (101, 69708), (133, 69903), (156, 70047), (158, 70062), (206, 70296), (227, 70380), (232, 70398), (253, 70521), (266, 70572), (269, 70587), (283, 70632), (284, 70635), (287, 70647), (305, 70728), (313, 70791), (320, 70827), (329, 70860), (350, 70932), (352, 70941), (360, 70986), (412, 71142), (421, 71172),

Gene: TunaTartare_87 Start: 64188, Stop: 65996, Start Num: 27
Candidate Starts for TunaTartare_87:
(Start: 27 @64188 has 22 MA's), (35, 64212), (Start: 49 @64269 has 1 MA's), (88, 64413), (100, 64494), (133, 64692), (134, 64698), (149, 64782), (156, 64836), (221, 65136), (232, 65187), (249, 65295), (267, 65367), (285, 65430), (305, 65517), (313, 65580), (316, 65604), (329, 65649), (331, 65655), (352, 65730), (379, 65850), (421, 65949), (426, 65961),

Gene: Tyke_250 Start: 147496, Stop: 149712, Start Num: 16
Candidate Starts for Tyke_250:
(2, 147214), (Start: 16 @147496 has 64 MA's), (35, 147562), (45, 147604), (51, 147628), (55, 147646), (64, 147685), (78, 147757), (82, 147772), (91, 147829), (93, 147835), (95, 147862), (105, 147937), (108, 147949), (121, 148024), (122, 148027), (134, 148135), (147, 148219), (150, 148246), (162, 148333), (196, 148507), (199, 148531), (211, 148588), (227, 148675), (244, 148783), (257, 148843), (286, 148954), (289, 148966), (292, 148975), (299, 149017), (309, 149074), (334, 149206), (338, 149221), (359, 149344), (361, 149371), (362, 149374), (363, 149377), (364, 149380), (379, 149437), (398, 149485), (421, 149545), (425, 149554), (457, 149665),

Gene: Vitaenoii_10 Start: 8292, Stop: 10244, Start Num: 42
Candidate Starts for Vitaenoii_10:
(41, 8286), (Start: 42 @8292 has 77 MA's), (56, 8349), (62, 8376), (78, 8421), (98, 8550), (99, 8553), (103, 8571), (110, 8625), (111, 8628), (112, 8631), (131, 8751), (135, 8778), (146, 8835), (149, 8859), (153, 8883), (174, 9000), (175, 9003), (207, 9174), (216, 9201), (218, 9213), (220, 9222), (226, 9261), (236, 9324), (254, 9417), (276, 9522), (291, 9591), (293, 9597), (308, 9687), (309, 9690), (311, 9714), (325, 9768), (332, 9807), (339, 9843), (340, 9846), (350, 9897), (361, 9969), (364, 9978), (367, 9987), (376, 10029), (398, 10077), (409, 10104), (435, 10191), (442, 10209), (443, 10212),

Gene: Vortrix_272 Start: 150007, Stop: 152220, Start Num: 19
Candidate Starts for Vortrix_272:
(Start: 19 @150007 has 1 MA's), (35, 150064), (55, 150148), (69, 150208), (78, 150259), (82, 150274), (89, 150325), (91, 150331), (92, 150334), (105, 150439), (108, 150451), (111, 150466), (112, 150469), (121, 150526), (122, 150529), (147, 150721), (150, 150748), (162, 150835), (199, 151036), (211, 151093), (222, 151138), (244, 151288), (251, 151321), (289, 151471), (292, 151480), (299, 151522), (301, 151528), (305, 151540), (309, 151579), (338, 151726), (359, 151849), (361, 151876), (362, 151879), (363, 151882), (364, 151885), (379, 151942), (381, 151945), (388, 151963), (421, 152050), (425, 152059), (431, 152083), (444, 152131), (455, 152158),

Gene: Wakanda_78 Start: 61677, Stop: 63482, Start Num: 29
Candidate Starts for Wakanda_78:

(Start: 29 @61677 has 86 MA's), (36, 61707), (44, 61740), (Start: 49 @61758 has 1 MA's), (53, 61776), (81, 61860), (88, 61902), (101, 61986), (102, 61989), (154, 62316), (156, 62325), (188, 62487), (221, 62625), (227, 62658), (232, 62676), (242, 62751), (258, 62817), (287, 62925), (288, 62928), (313, 63069), (316, 63093), (325, 63114), (331, 63144), (349, 63204), (352, 63219), (361, 63276), (384, 63357), (421, 63435),

Gene: Warpy_99 Start: 69303, Stop: 71123, Start Num: 29
Candidate Starts for Warpy_99:
(Start: 29 @69303 has 86 MA's), (Start: 49 @69384 has 1 MA's), (54, 69408), (61, 69417), (93, 69549), (100, 69609), (156, 69951), (179, 70056), (206, 70200), (232, 70302), (242, 70377), (253, 70425), (283, 70536), (305, 70632), (313, 70695), (325, 70740), (329, 70764), (335, 70791), (336, 70794), (350, 70836), (352, 70845), (360, 70890), (379, 70965), (421, 71076),

Gene: WashU_95 Start: 68908, Stop: 70728, Start Num: 29
Candidate Starts for WashU_95:
(Start: 29 @68908 has 86 MA's), (38, 68941), (Start: 49 @68989 has 1 MA's), (54, 69013), (61, 69022), (93, 69154), (100, 69214), (156, 69556), (206, 69805), (232, 69907), (238, 69952), (253, 70030), (283, 70141), (287, 70156), (305, 70237), (309, 70267), (313, 70300), (325, 70345), (329, 70369), (336, 70399), (344, 70417), (348, 70432), (352, 70450), (360, 70495), (401, 70630), (415, 70660), (421, 70681), (426, 70693),

Gene: Watermoore_95 Start: 69609, Stop: 71429, Start Num: 29
Candidate Starts for Watermoore_95:
(Start: 29 @69609 has 86 MA's), (38, 69642), (Start: 49 @69690 has 1 MA's), (54, 69714), (61, 69723), (93, 69855), (100, 69915), (156, 70257), (206, 70506), (232, 70608), (238, 70653), (283, 70842), (287, 70857), (305, 70938), (309, 70968), (313, 71001), (325, 71046), (329, 71070), (336, 71100), (344, 71118), (348, 71133), (352, 71151), (360, 71196), (401, 71331), (415, 71361), (421, 71382),

Gene: Weasels2_114 Start: 70421, Stop: 72172, Start Num: 29
Candidate Starts for Weasels2_114:
(Start: 29 @70421 has 86 MA's), (40, 70466), (95, 70694), (112, 70799), (130, 70898), (158, 71057), (188, 71204), (217, 71321), (227, 71375), (229, 71378), (231, 71384), (275, 71606), (300, 71705), (309, 71750), (312, 71780), (346, 71906), (356, 71948), (377, 72041), (387, 72068), (412, 72110), (421, 72125), (431, 72158),

Gene: Westy_89 Start: 63763, Stop: 65577, Start Num: 27
Candidate Starts for Westy_89:
(Start: 27 @63763 has 22 MA's), (36, 63796), (81, 63949), (88, 63991), (99, 64066), (101, 64075), (156, 64414), (167, 64465), (219, 64711), (221, 64714), (232, 64765), (282, 64990), (287, 65014), (288, 65017), (313, 65158), (316, 65182), (331, 65233), (344, 65275), (352, 65308), (379, 65428), (403, 65491), (421, 65530),

Gene: WhereRU_93 Start: 68606, Stop: 70426, Start Num: 29
Candidate Starts for WhereRU_93:
(Start: 29 @68606 has 86 MA's), (38, 68639), (Start: 49 @68687 has 1 MA's), (54, 68711), (61, 68720), (101, 68915), (145, 69173), (156, 69254), (232, 69605), (253, 69728), (283, 69839), (305, 69935), (313, 69998), (325, 70043), (329, 70067), (348, 70130), (352, 70148), (360, 70193), (401, 70328), (412, 70349), (420, 70376), (421, 70379),

Gene: Wipeout_97 Start: 69600, Stop: 71423, Start Num: 27
Candidate Starts for Wipeout_97:
(Start: 27 @69600 has 22 MA's), (Start: 29 @69603 has 86 MA's), (53, 69702), (54, 69708), (99, 69903), (101, 69912), (133, 70107), (156, 70251), (158, 70266), (206, 70500), (227, 70584), (232,

70602), (253, 70725), (266, 70776), (269, 70791), (283, 70836), (284, 70839), (287, 70851), (305, 70932), (313, 70995), (320, 71031), (329, 71064), (348, 71127), (350, 71136), (352, 71145), (360, 71190), (412, 71346), (421, 71376),

Gene: Woes_7 Start: 6312, Stop: 8288, Start Num: 42
Candidate Starts for Woes_7:
(41, 6306), (Start: 42 @6312 has 77 MA's), (56, 6369), (74, 6426), (78, 6441), (81, 6453), (98, 6570), (99, 6573), (110, 6645), (111, 6648), (112, 6651), (129, 6765), (131, 6777), (135, 6804), (160, 6963), (166, 6987), (174, 7026), (184, 7080), (202, 7182), (216, 7227), (220, 7248), (256, 7461), (276, 7548), (295, 7641), (339, 7869), (340, 7872), (350, 7923), (365, 8007), (369, 8019), (382, 8070), (396, 8103), (415, 8145), (458, 8283),

Gene: Wofford_98 Start: 69523, Stop: 71343, Start Num: 29
Candidate Starts for Wofford_98:
(Start: 29 @69523 has 86 MA's), (53, 69622), (54, 69628), (101, 69832), (106, 69874), (110, 69895), (156, 70171), (181, 70294), (209, 70441), (227, 70504), (232, 70522), (253, 70645), (259, 70669), (283, 70756), (305, 70852), (313, 70915), (315, 70924), (320, 70951), (333, 70996), (350, 71056), (352, 71065), (360, 71110), (379, 71185), (412, 71266), (421, 71296),

Gene: Worcestershire_10 Start: 7085, Stop: 9058, Start Num: 42
Candidate Starts for Worcestershire_10:
(39, 7067), (Start: 42 @7085 has 77 MA's), (Start: 49 @7112 has 1 MA's), (74, 7199), (78, 7214), (80, 7223), (85, 7247), (98, 7343), (99, 7346), (108, 7406), (110, 7418), (111, 7421), (112, 7424), (131, 7550), (135, 7577), (166, 7760), (174, 7799), (180, 7823), (183, 7847), (184, 7853), (205, 7970), (216, 8000), (248, 8186), (276, 8321), (295, 8414), (304, 8453), (308, 8486), (315, 8531), (325, 8567), (337, 8630), (338, 8636), (339, 8642), (340, 8645), (345, 8675), (365, 8780), (369, 8792), (415, 8915), (443, 9014), (456, 9050),

Gene: Yaboi_100 Start: 69181, Stop: 71001, Start Num: 29
Candidate Starts for Yaboi_100:
(Start: 27 @69178 has 22 MA's), (Start: 29 @69181 has 86 MA's), (53, 69280), (54, 69286), (101, 69490), (156, 69829), (203, 70069), (232, 70180), (249, 70288), (253, 70303), (266, 70354), (284, 70417), (288, 70432), (290, 70441), (305, 70510), (313, 70573), (325, 70618), (336, 70672), (352, 70723), (360, 70768), (365, 70792), (384, 70861), (421, 70954),

Gene: YemiJoy2021_254 Start: 146478, Stop: 148694, Start Num: 16
Candidate Starts for YemiJoy2021_254:
(2, 146196), (Start: 16 @146478 has 64 MA's), (35, 146544), (45, 146586), (51, 146610), (55, 146628), (64, 146667), (78, 146739), (82, 146754), (91, 146811), (93, 146817), (95, 146844), (105, 146919), (108, 146931), (121, 147006), (122, 147009), (134, 147117), (147, 147201), (150, 147228), (162, 147315), (196, 147489), (199, 147513), (211, 147570), (227, 147657), (244, 147765), (257, 147825), (286, 147936), (289, 147948), (292, 147957), (299, 147999), (309, 148056), (334, 148188), (338, 148203), (359, 148326), (361, 148353), (362, 148356), (363, 148359), (364, 148362), (379, 148419), (398, 148467), (421, 148527), (425, 148536), (457, 148647),

Gene: Yucca_254 Start: 146919, Stop: 149135, Start Num: 16
Candidate Starts for Yucca_254:
(2, 146637), (Start: 16 @146919 has 64 MA's), (35, 146985), (45, 147027), (51, 147051), (55, 147069), (64, 147108), (78, 147180), (82, 147195), (91, 147252), (93, 147258), (95, 147285), (105, 147360), (108, 147372), (121, 147447), (122, 147450), (134, 147558), (147, 147642), (150, 147669), (162, 147756), (196, 147930), (199, 147954), (211, 148011), (227, 148098), (244, 148206), (257, 148266), (286, 148377), (289, 148389), (292, 148398), (299, 148440), (309, 148497), (334, 148629), (338, 148644), (359, 148767), (361, 148794), (362, 148797), (363, 148800), (364, 148803), (379, 148860),

(398, 148908), (421, 148968), (425, 148977), (457, 149088),

Gene: Zalkecks_252 Start: 145576, Stop: 147792, Start Num: 16
Candidate Starts for Zalkecks_252:
(2, 145294), (Start: 16 @145576 has 64 MA's), (35, 145642), (45, 145684), (51, 145708), (55, 145726), (64, 145765), (78, 145837), (82, 145852), (91, 145909), (93, 145915), (95, 145942), (105, 146017), (108, 146029), (121, 146104), (122, 146107), (134, 146215), (147, 146299), (150, 146326), (162, 146413), (196, 146587), (199, 146611), (211, 146668), (227, 146755), (244, 146863), (257, 146923), (286, 147034), (289, 147046), (292, 147055), (299, 147097), (309, 147154), (334, 147286), (338, 147301), (359, 147424), (361, 147451), (362, 147454), (363, 147457), (364, 147460), (379, 147517), (398, 147565), (421, 147625), (425, 147634), (457, 147745),

Gene: Zeenon_254 Start: 146110, Stop: 148326, Start Num: 16
Candidate Starts for Zeenon_254:
(2, 145828), (Start: 16 @146110 has 64 MA's), (35, 146176), (45, 146218), (51, 146242), (55, 146260), (64, 146299), (78, 146371), (82, 146386), (91, 146443), (93, 146449), (95, 146476), (105, 146551), (108, 146563), (121, 146638), (122, 146641), (134, 146749), (147, 146833), (150, 146860), (162, 146947), (196, 147121), (199, 147145), (211, 147202), (227, 147289), (244, 147397), (257, 147457), (286, 147568), (289, 147580), (292, 147589), (299, 147631), (309, 147688), (334, 147820), (338, 147835), (359, 147958), (361, 147985), (362, 147988), (363, 147991), (364, 147994), (379, 148051), (398, 148099), (421, 148159), (425, 148168), (457, 148279),