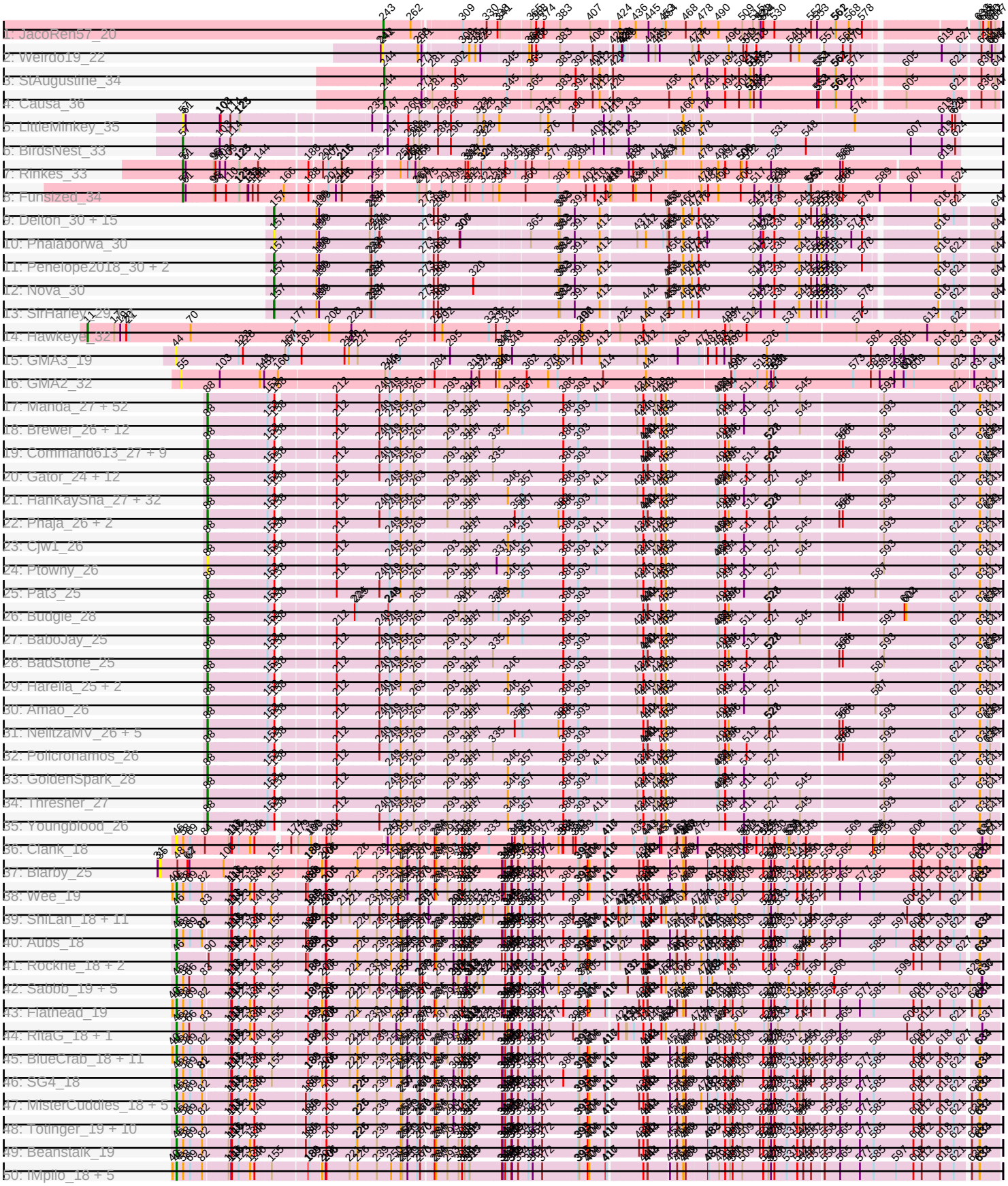
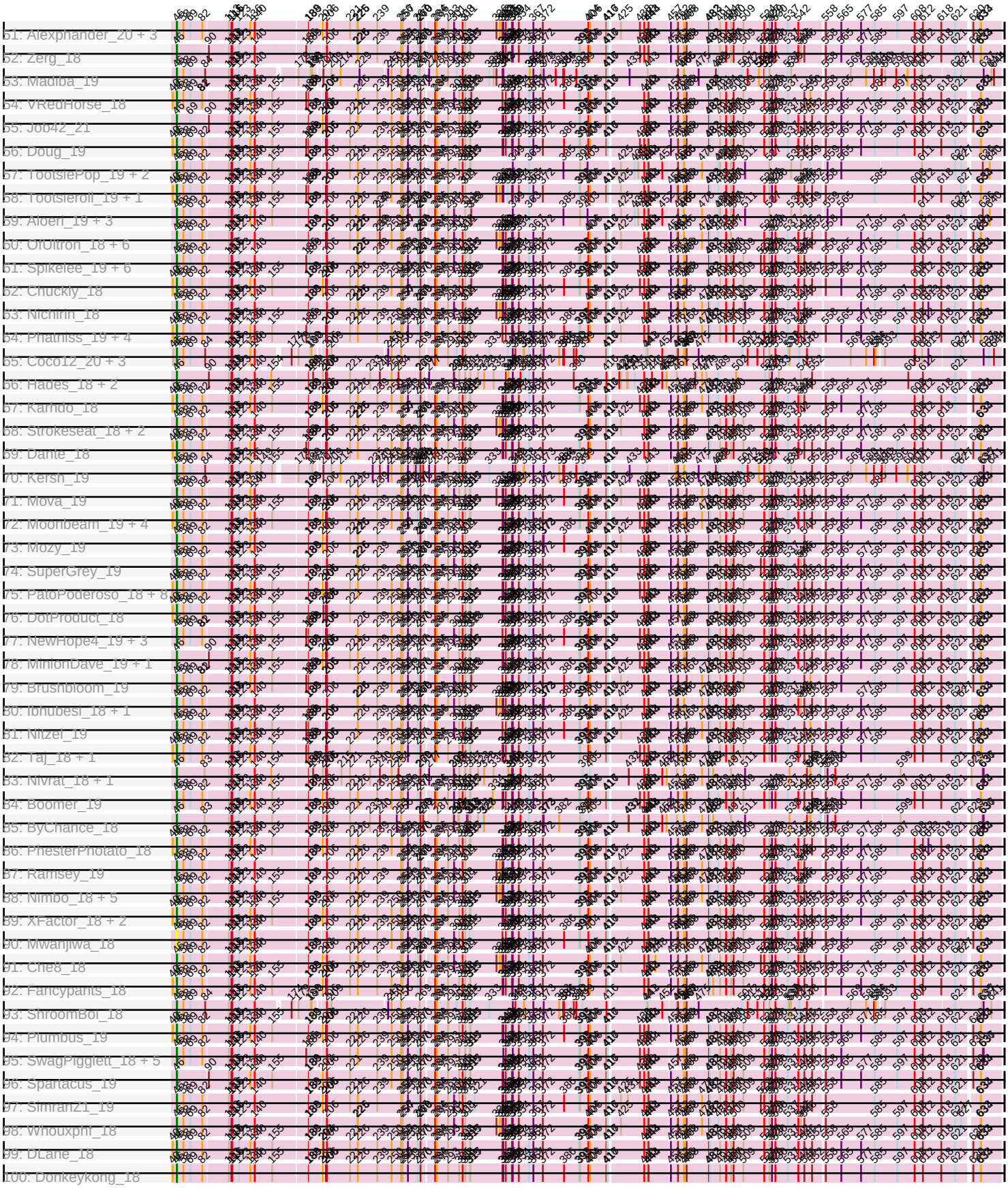
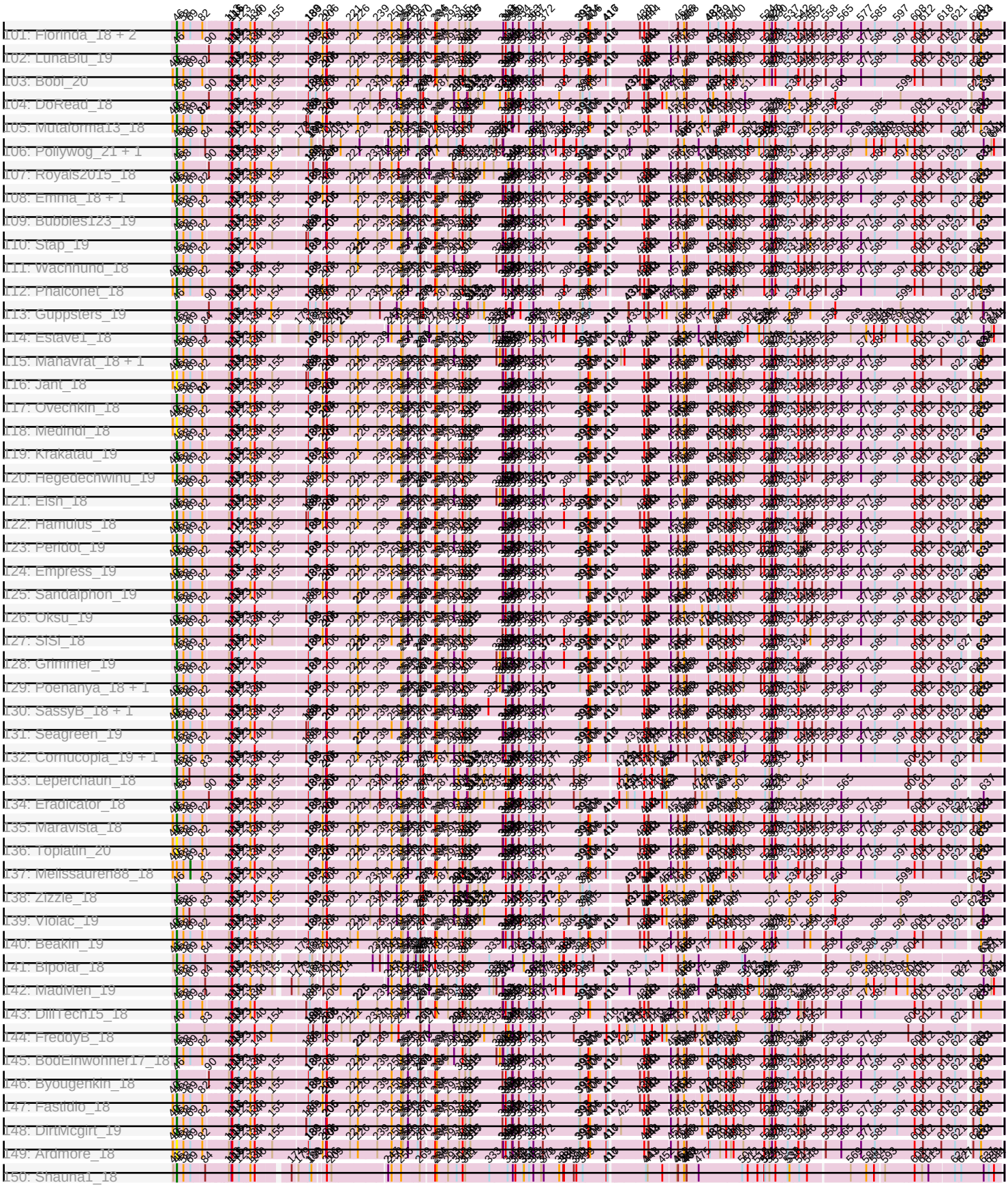
Pham 347068



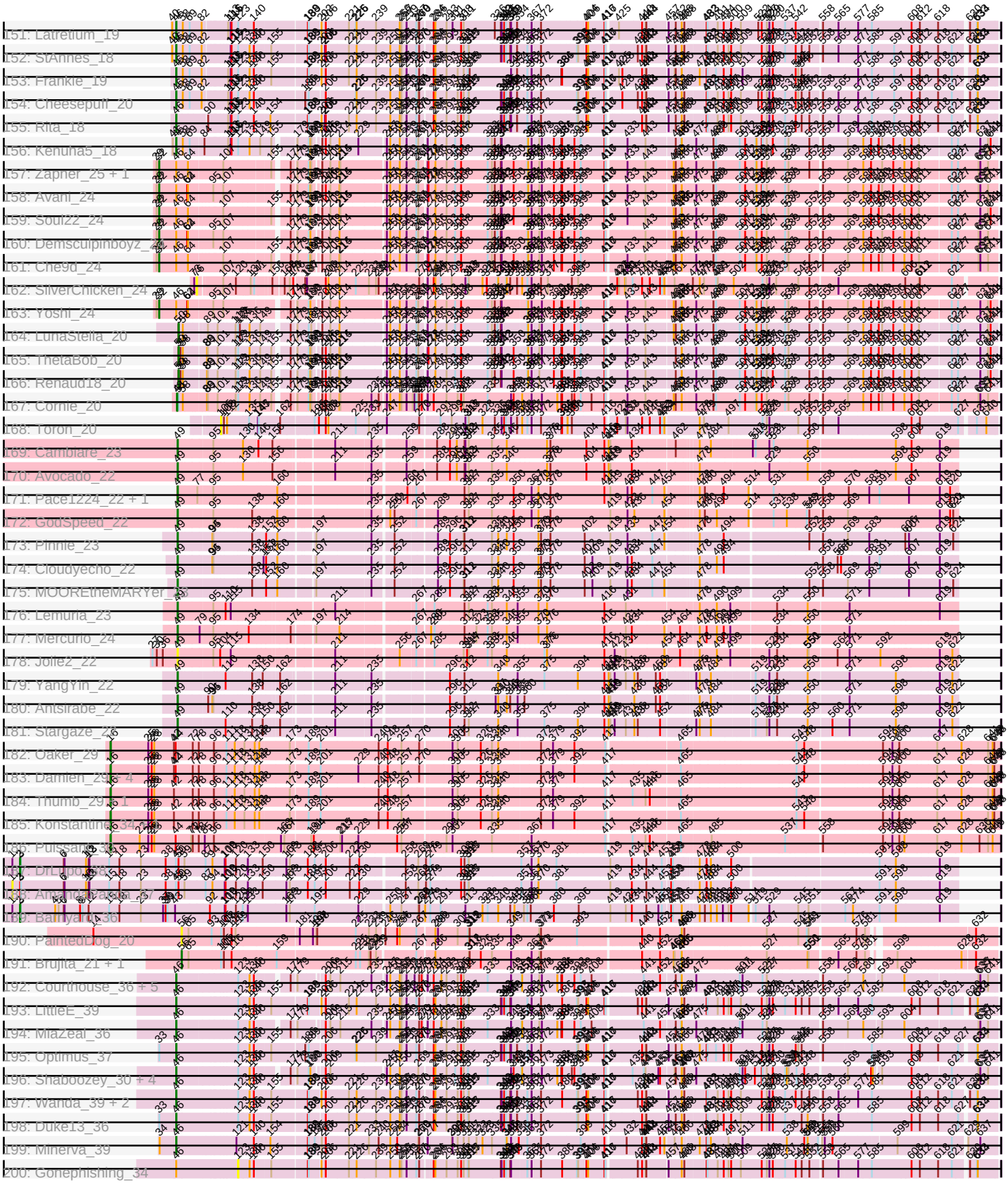
Pham 347068


51: Alexphander_20 + 3
52: Zerg_18
53: Madiba_19
54: VRedHorse_18
55: Job42_21
56: Doug_19
57: TootsiePop_19 + 2
58: Tootsieroll_19 + 1
59: Aiden_19 + 3
60: OfOltron_18 + 6
61: Spikelee_19 + 6
62: Chuckly_18
63: Nichirin_18
64: Phatniss_19 + 4
65: Coco12_20 + 3
66: Hades_18 + 2
67: Kamdo_18
68: Strokeseat_18 + 2
69: Dante_18
70: Kersh_19
71: Mova_19
72: Moonbeam_19 + 4
73: Mozy_19
74: SuperGrey_19
75: PatoPoderoso_18 + 8
76: DotProduct_18
77: NewHope4_19 + 3
78: MinionDave_19 + 1
79: Brushbloom_19
80: Ibnubesi_18 + 1
81: Nitzel_19
82: Taj_18 + 1
83: Nivrat_18 + 1
84: Boomer_19
85: ByChance_18
86: PhesterPhotato_18
87: Ramsey_19
88: Nimbo_18 + 5
89: XFactor_18 + 2
90: Mwanjiwa_18
91: Che8_18
92: Fancypants_18
93: ShroomBoi_18
94: Plumbus_19
95: SwagPiggiett_18 + 5
96: Spartacus_19
97: SimranZ1_19
98: Whouxphi_18
99: DLane_18
100: Donkeykong_18

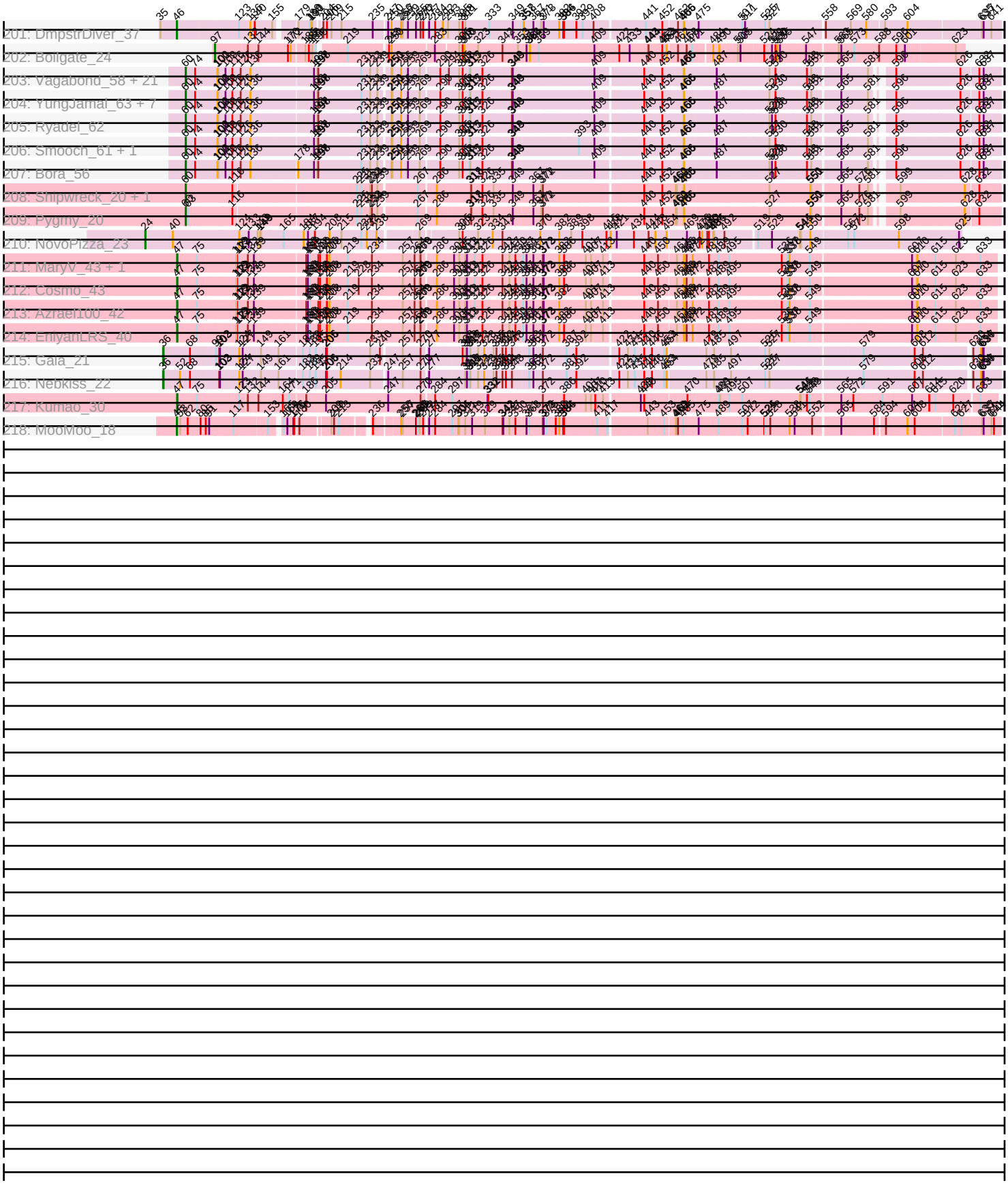
Pham 347068



Pham 347068


151: Latretium_19
152: StAnnes_18
153: Frankie_19
154: Cheesepuff_20
155: Rita_18
156: Kenuna5_18
157: Zapher_25 + 1
158: Avani_24
159: Soul22_24
160: Demsculpinboyz_24
161: Che9d_24
162: SilverChicken_24
163: Yoshi_24
164: LunaStella_20
165: ThetaBob_20
166: Renaud18_20
167: Cornie_20
168: Toron_20
169: Cambiare_23
170: Avocado_22
171: Pace1224_22 + 1
172: GodSpeed_22
173: Pinnie_23
174: Cloudyecho_22
175: MOOREtheMARYer_26
176: Lemuria_23
177: Mercurio_24
178: Jolie2_22
179: YangYin_22
180: Antsirabe_22
181: Stargaze_28
182: Oaker_29
183: Damien_29 + 4
184: Thumb_29 + 1
185: Konstantina_34
186: Pulsar_33
187: DrCuboctahedron_38
188: Amphitheatre_37
189: Bailiya_36
190: PaintedDog_20
191: Brujita_21 + 1
192: Courthouse_36 + 5
193: LittleE_39
194: MiaZeal_36
195: Optimus_37
196: Shaboozey_30 + 4
197: Wanda_39 + 2
198: Duke13_36
199: Minerva_39
200: Gonephishing_34

Pham 347068


201: DmpstrDiver_37
202: Boilgate_24
203: Vagabond_58 + 21
204: YungJamal_63 + 7
205: Ryadel_62
206: Smooch_61 + 1
207: Bora_56
208: Shipwreck_20 + 1
209: Pygmy_20
210: NovoPizza_23
211: MaryV_43 + 1
212: Cosmo_43
213: Azrael100_42
214: EmyanLRS_40
215: Gaia_21
216: Nebkiss_22
217: Kumao_30
218: MooMoo_18

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 347068 Report

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

Pham number 347068 has 534 members, 44 are drafts.

Phages represented in each track:
• Track 1 : JacoRen57_20
• Track 2 : Weirdo19_22
• Track 3 : StAugustine_34
• Track 4 : Causa_36
• Track 5 : LittleMinkey_35
• Track 6 : BirdsNest_33
• Track 7 : Rinkes_33
• Track 8 : Funsized_34
• Track 9 : Delton_30, Erk16_30, Visconti_30, Troll4_30, PLot_31, Prager_30, KandZ_30, Giuseppe_30, Adjutor_31, Mopey_30, Thoth_30, WaldoWhy_31, PBI1_30, BigMama_28, Butterscotch_30, Chill_31
• Track 10 : Phalaborwa_30
• Track 11 : Penelope2018_30, SuperheroCarly_30, Helpful_31
• Track 12 : Nova_30
• Track 13 : SirHarley_29, Gumball_29
• Track 14 : Hawkeye_32
• Track 15 : GMA3_19
• Track 16 : GMA2_32
• Track 17 : Manda_27, Terminus_26, Goldilocks_27, Murphy_27, Willez_25, TeamEdward_26, Holt_27, Thimble_26, Teaspoon_27, Porky_26, Buck_25, PhatBacter_26, Cookies_26, Murica_25, Pharsalus_27, Inca_25, Livelaughbron_26, Gemini_29, Filch_27, Tarkin_28, NonchalantPear_26, Palpatine_26, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, AmericanBeauty_28, MPhalcon_25, Misfit_26, Paperbeatsrock_28, Bogg_26, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, Becksu_26, SophKB_26, GooberAzure_28, StormChicken_26, Gage_28, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Quallification_27, Easy2Say_28, Kanye_28, Sassay_25, Miniwave_26
• Track 18 : Brewer_26, YassJohnny_27, Greep_27, Contagion_25, Mosby_25, MollyToe_26, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25, FoghornLeghorn_25
• Track 19 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
• Track 20 : Gator_24, Rakim_27, Myrale_26, ABCat_25, Asriel_25, Barbarian_25, Goku_26, Dusk_25, Balomoji_25, Tuco_27, Traaww1_24, TeardropMSU_25, Eureka_26

• Track 21 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Lilizi_28, Stark_27, Moldemort_27, Czyszczon1_27, RiverMonster_26, Elite2014_25, Bench_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, PaddyBaddy_27, Pumpkin_28, MadamMonkfish_26, NoSleep_27, Dumbo_26, Ukulele_26, OrionPax_27, Elph10_27, Maxxinista_27, JeTaime_28, Hopey_28, StolenFromERC_28, Emmina_27, Hoonter_28, Lilac_28, 244_28
• Track 22 : Phaja_26, IHOP_26, FairyPath_26
• Track 23 : Cjw1_26
• Track 24 : Ptowny_26
• Track 25 : Pat3_25
• Track 26 : Budgie_28
• Track 27 : BaboJay_25
• Track 28 : BadStone_25
• Track 29 : Harella_25, Flypotenuse_24, Glexan_24
• Track 30 : Amao_26
• Track 31 : NelitzaMV_26, Henry_26, Daikon_24, Toto_26, ShamWow_26, Mindy_26
• Track 32 : Policronamos_26
• Track 33 : GoldenSpark_28
• Track 34 : Thresher_27
• Track 35 : Youngblood_26
• Track 36 : Clank_18
• Track 37 : Blarby_25
• Track 38 : Wee_19
• Track 39 : ShiLan_18, Gandalph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, ShowerHandel_18, Priscilla_18, Yorick_18, Jarcob_18, Spoonbill_18, Martik_18, Cabrinians_18
• Track 40 : Aubs_18
• Track 41 : Rockne_18, Llij_18, PMC_18
• Track 42 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
• Track 43 : Flathead_19
• Track 44 : RitaG_18, Lucia_19
• Track 45 : BlueCrab_18, Pacc40_18, Polka14_19, Daenerys_18, Dorothy_18, PHappiness_18, KingMidas_19, JoeyJr_18, OldBen_18, DaddyRickover_18, IbOuu_18, Scottish_19
• Track 46 : SG4_18
• Track 47 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
• Track 48 : Totinger_19, LittleShirley_19, Emmaloid_19, Starcevich_19, Vivum_18, Tchotchke_19, GigiOuiOui_18, Slim_19, Rialto_20, EmiMonkey_18, PhlipPhlop_18
• Track 49 : Beanstalk_19
• Track 50 : IMpilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
• Track 51 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_18
• Track 52 : Zerg_18
• Track 53 : Madiba_19
• Track 54 : VRedHorse_18
• Track 55 : Job42_21
• Track 56 : Doug_19
• Track 57 : TootsiePop_19, Awesomesauce_19, Misha28_19
• Track 58 : Tootsieroll_19, Radiance_18
• Track 59 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19

• Track 60 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
• Track 61 : Spikelee_19, RedBird_18, BuzzLyseyear_20, WillSterrel_19, RockyHorror_19, IrishSherpFalk_19, Mantra_18
• Track 62 : Chuckly_18
• Track 63 : Nichirin_18
• Track 64 : Phatniss_19, Drago_19, UncleRicky_19, Enby_19, Lorde_19
• Track 65 : Coco12_20, Phanphagia_18, Brookers_19, Kingsley_19
• Track 66 : Hades_18, OwlsT2W_20, DosHalletts_19
• Track 67 : Karhdo_18
• Track 68 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
• Track 69 : Dante_18
• Track 70 : Kersh_19
• Track 71 : Mova_19
• Track 72 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_20
• Track 73 : Mozy_19
• Track 74 : SuperGrey_19
• Track 75 : PatoPoderoso_18, Doomslug_20, EleanorGeorge_18, KristaRAM_19, JalFarm20_20, Batiatus_18, KingJulian_18, Corium_18, Fruitloop_18
• Track 76 : DotProduct_18
• Track 77 : NewHope4_19, Polo2Bam_20, SeaLumen_19, Enzomatic_20
• Track 78 : MinionDave_19, CaptainTrips_19
• Track 79 : Brushbloom_19
• Track 80 : Ibhubesi_18, Harley_18
• Track 81 : Nitzel_19
• Track 82 : Taj_18, DeadP_18
• Track 83 : Nivrat_18, Lizziana_18
• Track 84 : Boomer_19
• Track 85 : ByChance_18
• Track 86 : PhesterPhotato_18
• Track 87 : Ramsey_19
• Track 88 : Nimbo_18, Blexus_18, Geralt_18, Inventum_18, Deb65_18, Sassafras_18
• Track 89 : XFactor_18, Galactic_18, Filuzino_18
• Track 90 : Mwanjiwa_18
• Track 91 : Che8_18
• Track 92 : Fancypants_18
• Track 93 : ShroomBoi_18
• Track 94 : Plumbus_19
• Track 95 : SwagPigglett_18, TDanisky_18, Philus_18, Saal_18, Sparkdehlily_18, DRBy19_18
• Track 96 : Spartacus_19
• Track 97 : SimranZ1_19
• Track 98 : Whouxphf_18
• Track 99 : DLane_18
• Track 100 : Donkeykong_18
• Track 101 : Florinda_18, Quico_19, Girafales_19
• Track 102 : LunaBlu_19
• Track 103 : Bobi_20
• Track 104 : DoRead_18
• Track 105 : Mutaforma13_18
• Track 106 : Pollywog_21, Ogopogo_21

• Track 107 : Royals2015_18
• Track 108 : Emma_18, Tweety_18
• Track 109 : Bubbles123_19
• Track 110 : Stap_19
• Track 111 : Wachhund_18
• Track 112 : Phalconet_18
• Track 113 : Guppsters_19
• Track 114 : Estave1_18
• Track 115 : Mahavrat_18, Juniper1_18
• Track 116 : Jant_18
• Track 117 : Ovechkin_18
• Track 118 : Medindi_18
• Track 119 : Krakatau_19
• Track 120 : Hegedechwinu_19
• Track 121 : Eish_18
• Track 122 : Hamulus_18
• Track 123 : Peridot_19
• Track 124 : Empress_19
• Track 125 : Sandalphon_19
• Track 126 : Oksu_19
• Track 127 : SiSi_18
• Track 128 : Grimmer_19
• Track 129 : Poenanya_18, Doomphist_18
• Track 130 : SassyB_18, PopTart_18
• Track 131 : Seagreen_19
• Track 132 : Cornucopia_19, Marker_19
• Track 133 : Leperchaun_18
• Track 134 : Eradicator_18
• Track 135 : Maravista_18
• Track 136 : Topiatin_20
• Track 137 : Melissauren88_18
• Track 138 : Zizzle_18
• Track 139 : Violac_19
• Track 140 : Beakin_19
• Track 141 : Bipolar_18
• Track 142 : MadMen_19
• Track 143 : DillTech15_18
• Track 144 : FreddyB_18
• Track 145 : BodEinwohner17_18
• Track 146 : Byougenkin_18
• Track 147 : Fastidio_18
• Track 148 : DirtMcgirt_19
• Track 149 : Ardmore_18
• Track 150 : Shauna1_18
• Track 151 : Latretium_19
• Track 152 : StAnnes_18
• Track 153 : Frankie_19
• Track 154 : Cheesepuff_20
• Track 155 : Rita_18
• Track 156 : Kenuha5_18
• Track 157 : Zapner_25, Jabbawokkie_26
• Track 158 : Avani_24
• Track 159 : Soul22_24

• Track 160 : Demsculpinboyz_24
• Track 161 : Che9d_24
• Track 162 : SilverChicken_24
• Track 163 : Yoshi_24
• Track 164 : LunaStella_20
• Track 165 : ThetaBob_20
• Track 166 : Renaud18_20
• Track 167 : Cornie_20
• Track 168 : Toron_20
• Track 169 : Cambiare_23
• Track 170 : Avocado_22
• Track 171 : Pace1224_22, FlagStaff_22
• Track 172 : GodSpeed_22
• Track 173 : Pinnie_23
• Track 174 : Cloudyecho_22
• Track 175 : MOOREtheMARYer_23
• Track 176 : Lemuria_23
• Track 177 : Mercurio_24
• Track 178 : Jolie2_22
• Track 179 : YangYin_22
• Track 180 : Antsirabe_22
• Track 181 : Stargaze_22
• Track 182 : Oaker_29
• Track 183 : Damien_29, Nish23_30, Cborch11_30, Beckerton_29, Megatron06_31
• Track 184 : Thumb_29, BobtimousPrime_31
• Track 185 : Konstantine_34, Phreeze_29
• Track 186 : Puissant_30
• Track 187 : DrLupo_38
• Track 188 : AmandaPanda_37
• Track 189 : Barnyard_36
• Track 190 : PaintedDog_20
• Track 191 : Brujita_21, Island3_21
• Track 192 : Courthouse_36, Squint_35, Porcelain_35, Ariel_36, Superphikiman_36, Lucky2013_36
• Track 193 : LittleE_39
• Track 194 : MiaZeal_36
• Track 195 : Optimus_37
• Track 196 : Shaboozey_30, BronnyJames_30, Hannaconda_33, KashFlow_30, Nibley_31
• Track 197 : Wanda_39, BAKA_36, Omega_38
• Track 198 : Duke13_36
• Track 199 : Minerva_39
• Track 200 : Gonephishing_34
• Track 201 : DmpstrDiver_37
• Track 202 : Boilgate_24
• Track 203 : Vagabond_58, Krili_57, SchoolBus_58, Idergollasper_58, YoyoKar_56, Mori_58, Wogge42_57, Alkhayr_58, Schuy_59, Famílton_59, Winget_59, TelAviv_55, Catdawg_58, MadKillah_59, NiebruSaylor_57, Blessica_59, KingPhillip3_58, Zebo_58, JangDynasty_58, FoulBall_58, Vorrps_58, Imara_58
• Track 204 : YungJamal_63, Wildflower_58, Corndog_61, Shida_58, Dylan_58, Murai_59, Ashwin_60, Zakhe101_58
• Track 205 : Ryadel_62
• Track 206 : Smooch_61, Firecracker_59

• Track 207 : Bora_56
• Track 208 : Shipwreck_20, Bogie_20
• Track 209 : Pygmy_20
• Track 210 : NovoPizza_23
• Track 211 : MaryV_43, Wildcat_43
• Track 212 : Cosmo_43
• Track 213 : Azrael100_42
• Track 214 : EniyanLRS_40
• Track 215 : Gaia_21
• Track 216 : Nebkiss_22
• Track 217 : Kumao_30
• Track 218 : MooMoo_18

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

The start number called the most often in the published annotations is 46, it was called in 244 of the 490 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alexphander_20, Aloeri_19, AlpineSix_18, ArcusAngelus_18, Ardmore_18, Ariel_36, Aubs_18, Awesomesauce_19, BAKA_36, Batiatus_18, Beakin_19, Beanstalk_19, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, BronnyJames_30, Brookers_19, Brushbloom_19, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, Cheesepuff_20, Chevrolet_18, ChickenDinner_19, Chuckly_18, Clank_18, Coco12_20, Corium_18, Cornucopia_19, Courthouse_36, DLane_18, DRBy19_18, DaWorst_20, DaddyRickover_18, Daenerys_18, Dante_18, DeadP_18, Deb65_18, DillTech15_18, DirtMcgirt_19, DmpstrDiver_37, DoRead_18, DocMcStuffins_19, Donkeykong_18, Doomphist_18, Doomslug_20, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, EmiMonkey_18, Emma_18, Emmaloid_19, Empress_19, Enby_19, Enzomatic_20, Eradicator_18, Estave1_18, Fancypants_18, Fastidio_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmbie_18, Galactic_18, Gandalph_18, Geralt_18, GigiOuiOui_18, Girafales_19, Girr_18, Gorge_18, Grimmer_19, Guppsters_19, Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IMpilo_18, IbOuu_18, Ibhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jant_18, Jarcob_18, Jinglebell_17, Job42_21, JoeyJr_18, Juice456_20, Juniper1_18, Karhdo_18, KashFlow_30, Kenuha5_18, Kersh_19, Kimberlium_20, KingJulian_18, KingMidas_19, Kingsley_19, Krakatau_19, KristaRAM_19, Latretium_19, Leozinho_19, Leperchaun_18, LilMoolah_18, LittleE_39, LittleShirley_19, Lizziana_18, Llama_18, Llij_18, Lorde_19, Lucia_19, Lucky2013_36, LunaBlu_19, MadMen_19, Madiba_19, Mahavrat_18, Mandlovu_18, Mantra_18, Maravista_18, Marker_19, Martik_18, Mattes_18, Medindi_18, MiaZeal_36, MilleniumForce_19, Minerva_39, MinionDave_19, Minnie_19, Misha28_19, MisterCuddles_18, Modragons_18, MooMoo_18, Moonbeam_19, Mova_19, Mozy_19, MulchExplorer_20, Mutaforma13_18, Mwanjiwa_18, NewHope4_19, Nibley_31, Nichirin_18, Nimbo_18, Nitzel_19, Nivrat_18, NormanBulbieJr_18, Ochi17_18, OfUltron_18, Ogopogo_21, Oksu_19, OldBen_18, OlympiaSaint_18, Omega_38, Optimus_37, Ovechkin_18, OwlsT2W_20, PHappiness_18, PMC_18,

Pacc40_18, PatoPoderoso_18, Peridot_19, Phalconet_18, Phanphagia_18, Phasih_19, Phatniss_19, PhesterPhotato_18, Philus_18, PhlipPhlop_18, Piper2020_19, Plumbus_19, Poenanya_18, Polka14_19, Pollywog_21, Polo2Bam_20, PopTart_18, Porcelain_35, Priscilla_18, QuickMath_19, Quico_19, Radiance_18, Ramsey_19, RedBird_18, Rialto_20, RitaG_18, Rita_18, Rockne_18, RockyHorror_19, Royals2015_18, Ruby_18, SG4_18, Saal_18, Sabbb_19, Sandalphon_19, Sassafras_18, SassyB_18, Scottish_19, SeaLumen_19, Seabastian_18, Seagreen_19, Shaboozey_30, Shauna1_18, ShiLan_18, ShowerHandel_18, ShroomBoi_18, SiSi_18, SimranZ1_19, Slim_19, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, Starcevich_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPigglett_18, TDanisky_18, Taj_18, Tchotchke_19, TootsiePop_19, Tootsieroll_19, Topiatin_20, Totinger_19, Tweety_18, UncleRicky_19, VRedHorse_18, Veteran_18, Violac_19, Vivum_18, Wachhund_18, Wanda_39, Wee_19, Whatsapiecost_18, Whouxphf_18, WillSterrel_19, XFactor_18, Yorick_18, Zerg_18, Zizzle_18,

Genes that have the "Most Annotated" start but do not call it:
• Avani_24, Che9d_24, Demsculpinboyz_24, Gonephishing_34, Jabbawokkie_26, Melissauren88_18, Soul22_24, Yoshi_24, Zapner_25,

Genes that do not have the "Most Annotated" start:
• 244_28, ABCat_25, Adjutor_31, Adnama_29, Alkhayr_58, AmandaPanda_37, Amao_26, AmericanBeauty_28, Antsirabe_22, Argent26_28, Ashwin_60, Asriel_25, Avocado_22, Azrael100_42, BaboJay_25, BadStone_25, Balomoji_25, Barbarian_25, Barnyard_36, Bask21_26, Beckerton_29, Becksu_26, Bench_28, BigBubba_27, BigMama_28, BilboSwaggins_26, BirdsNest_33, Blarby_25, Blessica_59, BobtimousPrime_31, Bogg_26, Bogie_20, Boilgate_24, Bora_56, Brewer_26, Bruin_26, Brujita_21, Buck_25, Budgie_28, BugsBunny_24, Butterscotch_30, Cactus_27, Cambiare_23, Catdawg_58, Causa_36, Cborch11_30, Chill_31, ChosenOne_25, ChotaBhai_26, Cjw1_26, Cloudyecho_22, Command613_27, Contagion_25, Cookies_26, Corndog_61, Cornie_20, Cosmo_43, CrystalP_26, Czyszczon1_27, Daikon_24, Damien_29, Delton_30, DoctorDiddles_26, DrDrey_27, DrLupo_38, Dumbo_26, Dusk_25, Dylan_58, Easy2Say_28, Elite2014_25, Elph10_27, Emmina_27, EniyanLRS_40, Erk16_30, Eureka_26, FairyPath_26, Familton_59, Filch_27, FireRed_26, Firecracker_59, FlagStaff_22, Flypotenuse_24, FoghornLeghorn_25, FoulBall_58, Funsized_34, GMA2_32, GMA3_19, Gage_28, Gaia_21, Gator_24, Gemini_29, Giuseppe_30, Glexan_24, GodSpeed_22, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, Greep_27, Gumball_29, HanKaySha_27, Harella_25, Hawkeye_32, Helpful_31, Henry_26, Highbury_27, Holt_27, Hoonter_28, Hopey_28, HufflyPuff_25, IHOP_26, Icee_25, Idergollasper_58, Imara_58, Inca_25, Island3_21, JacoRen57_20, JangDynasty_58, JeTaime_28, Jolie2_22, KandZ_30, Kanye_28, Kimchi_28, KingPhillip3_58, Konstantine_34, Kostya_26, Krili_57, Kumao_30, Lemuria_23, Lilac_28, Lilizi_28, Lilpickle_25, LittleMinkey_35, Livelaughbron_26, LunaStella_20, MISSy_25, MOOREtheMARYer_23, MPhalcon_25, MadKillah_59, MadamMonkfish_26, Manda_27, Marshmallow_26, MaryV_43, Maxxinista_27, Megatron06_31, Mercurio_24, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MollyToe_26, Mopey_30, Mori_58, Mosby_25, Murai_59, Murica_25, Murphy_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, NiebruSaylor_57, Nimrod_26, Nish23_30, NoSleep_27, NonchalantPear_26, Nova_30, NovoPizza_23, Oaker_29, OrionPax_27, PBI1_30, PLot_31, Pace1224_22, PaddyBaddy_27, PaintedDog_20, Palpatine_26, Paperbeatsrock_28, Pat3_25, Penelope2018_30, Petra64142_28,

Phaja_26, Phalaborwa_30, Pharsalus_27, PhatBacter_26, Phaux_25, Phreeze_29, Phrux_26, Pinnie_23, Policronamos_26, Porky_26, Prager_30, Ptowny_26, Puissant_30, Pumpkin_28, Pygmy_20, Quallification_27, Rakim_27, Renaud18_20, Rimmer_25, Rinkes_33, RiverMonster_26, Ryadel_62, Saints25_27, Sassay_25, SchoolBus_58, Schuy_59, ShamWow_26, ShereKhan_28, Shida_58, Shipwreck_20, SilverChicken_24, Simpliphy_27, SirDuracell_25, SirHarley_29, Smooch_61, SophKB_26, Sotrice96_26, StAugustine_34, Stank_29, Stargaze_22, Stark_27, StellaBean_26, StolenFromERC_28, StormChicken_26, SuperheroCarly_30, TBrady12_28, Tarkin_28, TeamEdward_26, TeardropMSU_25, Teaspoon_27, TelAviv_55, Terminus_26, ThetaBob_20, Thimble_26, Thoth_30, Thresher_27, Thumb_29, Tomaszewski_25, Toron_20, Toto_26, Traaww1_24, Troll4_30, Tuco_27, Ukulele_26, Vagabond_58, Visconti_30, Vorrps_58, WaldoWhy_31, Weirdo19_22, Wiggin_29, Wildcat_43, Wildflower_58, Willez_25, Winget_59, Wogge42_57, Xandras_28, YangYin_22, YassJohnny_27, Youngblood_26, YoyoKar_56, YungJamal_63, Zakhe101_58, Zebo_58, xkcd_27,

Summary by start number:

Start 1:
• Found in 3 of 534 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: AmandaPanda_37 (H2),

Start 2:
• Found in 3 of 534 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 490
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Barnyard_36 (H2), DrLupo_38 (H2),

Start 11:
• Found in 1 of 534 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hawkeye_32 (D2),

Start 16:
• Found in 11 of 534 (2.1%) of genes in pham
• Manual Annotations of this start: 10 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_29 (H1), BobtimousPrime_31 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Nish23_30 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_30 (H1), Thumb_29 (H1),

Start 24:
• Found in 1 of 534 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NovoPizza_23 (Q),

Start 32:
• Found in 7 of 534 (1.3%) of genes in pham

• Manual Annotations of this start: 7 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Avani_24 (F2), Che9d_24 (F2), Demsculpinboyz_24 (F2), Jabbawokkie_26 (F2), Soul22_24 (F2), Yoshi_24 (F2), Zapner_25 (F2),

Start 35:
• Found in 2 of 534 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Blarby_25 (F),

Start 36:
• Found in 3 of 534 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 490
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 44:
• Found in 8 of 534 (1.5%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: GMA3_19 (DF2),

Start 46:
• Found in 270 of 534 (50.6%) of genes in pham
• Manual Annotations of this start: 244 of 490
• Called 96.7% of time when present
• Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18 (F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatus_18 (F1), Beakin_19 (F1), Beanstalk_19 (F1), Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), BronnyJames_30 (J), Brookers_19 (F1), Brushbloom_19 (F1), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), Cheesepuff_20 (F1), Chevrolet_18 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), Clank_18 (F), Coco12_20 (F1), Corium_18 (F1), Cornucopia_19 (F1), Courthouse_36 (J), DLane_18 (F1), DRBy19_18 (F1), DaWorst_20 (F1), DaddyRickover_18 (F1), Daenerys_18 (F1), Dante_18 (F1), DeadP_18 (F1), Deb65_18 (F1), DillTech15_18 (F1), DirtMcgirt_19 (F1), DmpstrDiver_37 (J), DoRead_18 (F1), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Doomslug_20 (F), Dorothy_18 (F1), DosHalletts_19 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), EmiMonkey_18 (F1), Emma_18 (F1), Emmaloid_19 (F1), Empress_19 (F1), Enby_19 (F1), Enzomatic_20 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Fastidio_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18 (F1), GUmbie_18 (F1), Galactic_18 (F1), Gandalph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IMpilo_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jant_18 (F1),

Jarcob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingJulian_18 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), Lucia_19 (F1), Lucky2013_36 (J), LunaBlu_19 (F1), MadMen_19 (F1), Madiba_19 (F1), Mahavrat_18 (F1), Mandlovu_18 (F1), Mantra_18 (F1), Maravista_18 (F1), Marker_19 (F1), Martik_18 (F1), Mattes_18 (F1), Medindi_18 (F1), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Mova_19 (F1), Mozy_19 (F1), MulchExplorer_20 (F1), Mutaforma13_18 (F1), Mwanjiwa_18 (F1), NewHope4_19 (F1), Nibley_31 (J), Nichirin_18 (F1), Nimbo_18 (F1), Nitzel_19 (F1), Nivrat_18 (F1), NormanBulbieJr_18 (F1), Ochi17_18 (F1), OfUltron_18 (F1), Ogopogo_21 (F1), Oksu_19 (F1), OldBen_18 (F1), OlympiaSaint_18 (F1), Omega_38 (J), Optimus_37 (J), Ovechkin_18 (F1), OwlsT2W_20 (F1), PHappiness_18 (F1), PMC_18 (F1), Pacc40_18 (F1), PatoPoderoso_18 (F1), Peridot_19 (F1), Phalconet_18 (F1), Phanphagia_18 (F1), Phasih_19 (F1), Phatniss_19 (F1), PhesterPhotato_18 (F1), Philus_18 (F1), PhlipPhlop_18 (F1), Piper2020_19 (F1), Plumbus_19 (F1), Poenanya_18 (F1), Polka14_19 (F1), Pollywog_21 (F1), Polo2Bam_20 (F1), PopTart_18 (F1), Porcelain_35 (J), Priscilla_18 (F1), QuickMath_19 (F1), Quico_19 (F1), Radiance_18 (F1), Ramsey_19 (F1), RedBird_18 (F1), Rialto_20 (F1), RitaG_18 (F1), Rita_18 (F1), Rockne_18 (F1), RockyHorror_19 (F1), Royals2015_18 (F1), Ruby_18 (F1), SG4_18 (F1), Saal_18 (F1), Sabbb_19 (F1), Sandalphon_19 (F1), Sassafras_18 (F1), SassyB_18 (F1), Scottish_19 (F1), SeaLumen_19 (F1), Seabastian_18 (F1), Seagreen_19 (F1), Shaboozey_30 (J), Shauna1_18 (F1), ShiLan_18 (F1), ShowerHandel_18 (F1), ShroomBoi_18 (F1), SiSi_18 (F1), SimranZ1_19 (F1), Slim_19 (F1), Sparkdehlily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starcevich_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPigglett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), Tchotchke_19 (F1), TootsiePop_19 (F1), Tootsieroll_19 (F1), Topiatin_20 (F1), Totinger_19 (F1), Tweety_18 (F1), UncleRicky_19 (F1), VRedHorse_18 (F1), Veteran_18 (F1), Violac_19 (F1), Vivum_18 (F1), Wachhund_18 (F1), Wanda_39 (J), Wee_19 (F1), Whatsapiecost_18 (F1), Whouxphf_18 (F1), WillSterrel_19 (F1), XFactor_18 (F1), Yorick_18 (F1), Zerg_18 (F1), Zizzle_18 (F1),

Start 47:
• Found in 6 of 534 (1.1%) of genes in pham
• Manual Annotations of this start: 6 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_42 (V), Cosmo_43 (V), EniyanLRS_40 (V), Kumao_30 (singleton), MaryV_43 (V), Wildcat_43 (V),

Start 48:
• Found in 2 of 534 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 490
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cornie_20 (F5),

Start 49:
• Found in 14 of 534 (2.6%) of genes in pham

• Manual Annotations of this start: 12 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antsirabe_22 (G5), Avocado_22 (G2), Cambiare_23 (G2), Cloudyecho_22 (G3), FlagStaff_22 (G2), GodSpeed_22 (G2), Jolie2_22 (G4), Lemuria_23 (G4), MOOREtheMARYer_23 (G3), Mercurio_24 (G4), Pace1224_22 (G2), Pinnie_23 (G3), Stargaze_22 (G5), YangYin_22 (G5),

Start 50:
• Found in 5 of 534 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 490
• Called 60.0% of time when present
• Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 55:
• Found in 1 of 534 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA2_32 (DS),

Start 56:
• Found in 3 of 534 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1), PaintedDog_20 (I1),

Start 57:
• Found in 4 of 534 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdsNest_33 (B13), Funsized_34 (B9), LittleMinkey_35 (B13), Rinkes_33 (B9),

Start 60:
• Found in 37 of 534 (6.9%) of genes in pham
• Manual Annotations of this start: 35 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alkhayr_58 (O), Ashwin_60 (O), Blessica_59 (O), Bogie_20 (P1), Bora_56 (O), Catdawg_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_58 (O), Idergollasper_58 (O), Imara_58 (O), JangDynasty_58 (O), KingPhillip3_58 (O), Krili_57 (O), MadKillah_59 (O), Mori_58 (O), Murai_59 (O), NiebruSaylor_57 (O), Pygmy_20 (P1), Ryadel_62 (O), SchoolBus_58 (O), Schuy_59 (O), Shida_58 (O), Shipwreck_20 (P1), Smooch_61 (O), TelAviv_55 (O), Vagabond_58 (O), Vorrps_58 (O), Wildflower_58 (O), Winget_59 (O), Wogge42_57 (O), YoyoKar_56 (O), YungJamal_63 (O), Zakhe101_58 (O), Zebo_58 (O),

Start 69:
• Found in 197 of 534 (36.9%) of genes in pham
• Manual Annotations of this start: 1 of 490
• Called 0.5% of time when present
• Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 76:
• Found in 1 of 534 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SilverChicken_24 (F2),

Start 88:
• Found in 148 of 534 (27.7%) of genes in pham
• Manual Annotations of this start: 134 of 490
• Called 98.0% of time when present
• Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_28 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Becksu_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bogg_26 (E), Brewer_26 (E), Bruin_26 (E), Buck_25 (E), Budgie_28 (E), BugsBunny_24 (E), Cactus_27 (E), ChosenOne_25 (E), ChotaBhai_26 (E), Cjw1_26 (E), Command613_27 (E), Contagion_25 (E), Cookies_26 (E), CrystalP_26 (E), Czyszczon1_27 (E), Daikon_24 (E), DoctorDiddles_26 (E), DrDrey_27 (E), Dumbo_26 (E), Dusk_25 (E), Easy2Say_28 (E), Elite2014_25 (E), Elph10_27 (E), Emmina_27 (E), Eureka_26 (E), FairyPath_26 (E), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (E), FoghornLeghorn_25 (E), Gage_28 (E), Gator_24 (E), Gemini_29 (E), Glexan_24 (E), Goku_26 (E), GoldenSpark_28 (E), Goldilocks_27 (E), GooberAzure_28 (E), Greep_27 (E), HanKaySha_27 (E), Harella_25 (E), Henry_26 (E), Highbury_27 (E), Holt_27 (E), Hoonter_28 (E), Hopey_28 (E), HufflyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaime_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), Livelaughbron_26 (E), MISSy_25 (E), MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), MollyToe_26 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), NonchalantPear_26 (E), OrionPax_27 (E), PaddyBaddy_27 (E), Palpatine_26 (E), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_26 (E), Policronamos_26 (E), Porky_26 (E), Ptowny_26 (E), Pumpkin_28 (E), Quallification_27 (E), Rakim_27 (E), Rimmer_25 (E), RiverMonster_26 (E), Saints25_27 (E), Sassay_25 (E), ShamWow_26 (E), ShereKhan_28 (E), Simpliphy_27 (E), SirDuracell_25 (E), SophKB_26 (E), Sotrice96_26 (E), Stank_29 (E), Stark_27 (E), StellaBean_26 (E), StolenFromERC_28 (E), StormChicken_26 (E), TBrady12_28 (E), Tarkin_28 (E), TeamEdward_26 (E), TeardropMSU_25 (E), Teaspoon_27 (E), Terminus_26 (E), Thimble_26 (E), Thresher_27 (E), Tomaszewski_25 (E), Toto_26 (E), Traaww1_24 (E), Tuco_27 (E), Ukulele_26 (E), Wiggin_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 97:
• Found in 1 of 534 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Boilgate_24 (K8),

Start 105:
• Found in 4 of 534 (0.7%) of genes in pham
• No Manual Annotations of this start.

• Called 25.0% of time when present
• Phage (with cluster) where this start called: Toron_20 (F6),

Start 123:
• Found in 272 of 534 (50.9%) of genes in pham
• No Manual Annotations of this start.
• Called 0.4% of time when present
• Phage (with cluster) where this start called: Gonephishing_34 (J),

Start 157:
• Found in 23 of 534 (4.3%) of genes in pham
• Manual Annotations of this start: 22 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adjutor_31 (D1), BigMama_28 (D1), Butterscotch_30 (D1), Chill_31 (D1), Delton_30 (D1), Erk16_30 (D1), Giuseppe_30 (D1), Gumball_29 (D1), Helpful_31 (D1), KandZ_30 (D1), Mopey_30 (D1), Nova_30 (D1), PBI1_30 (D1), PLot_31 (D1), Penelope2018_30 (D1), Phalaborwa_30 (D1), Prager_30 (D1), SirHarley_29 (D1), SuperheroCarly_30 (D1), Thoth_30 (D1), Troll4_30 (D1), Visconti_30 (D1), WaldoWhy_31 (D1),

Start 242:
• Found in 1 of 534 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Weirdo19_22 (AH),

Start 243:
• Found in 1 of 534 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JacoRen57_20 (AB),

Start 244:
• Found in 2 of 534 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 490
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Causa_36 (AI), StAugustine_34 (AI),

Summary by clusters:

There are 31 clusters represented in this pham: singleton, AB, B13, K8, DS, G5, G4, G3, G2, I1, DF2, P1, E, F, AI, AH, J, O, Q, V, X, F1, F2, F4, F5, F6, H2, H1, D2, B9, D1,

Info for manual annotations of cluster AB:
•Start number 243 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AI:
•Start number 244 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B13:
•Start number 57 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B9:
•Start number 57 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster D1:
•Start number 157 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 11 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster E:
•Start number 88 was manually annotated 134 times for cluster E.

Info for manual annotations of cluster F1:
•Start number 46 was manually annotated 226 times for cluster F1.
•Start number 69 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:
•Start number 32 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 50 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:
•Start number 48 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster G2:
•Start number 49 was manually annotated 4 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 49 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 49 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 49 was manually annotated 3 times for cluster G5.

Info for manual annotations of cluster H1:
•Start number 16 was manually annotated 10 times for cluster H1.

Info for manual annotations of cluster H2:
•Start number 2 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:
•Start number 56 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:
•Start number 46 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster K8:
•Start number 97 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster O:
•Start number 60 was manually annotated 32 times for cluster O.

Info for manual annotations of cluster P1:
•Start number 60 was manually annotated 3 times for cluster P1.

Info for manual annotations of cluster Q:
•Start number 24 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster V:
•Start number 47 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:
•Start number 36 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 88
Candidate Starts for 244_28:
(Start: 88 @22564 has 134 MA's), (153, 22741), (158, 22762), (212, 22909), (249, 23083), (256, 23116), (263, 23152), (293, 23245), (311, 23305), (317, 23323), (346, 23455), (357, 23500), (386, 23632), (393, 23677), (411, 23737), (437, 23851), (440, 23872), (449, 23911), (452, 23932), (454, 23947), (489, 24097), (491, 24103), (494, 24121), (511, 24175), (527, 24259), (545, 24352), (593, 24598), (621, 24814), (634, 24898), (641, 24931),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 88
Candidate Starts for ABCat_25:
(Start: 88 @22283 has 134 MA's), (153, 22460), (158, 22481), (212, 22628), (240, 22769), (249, 22802), (256, 22835), (263, 22871), (293, 22964), (311, 23024), (317, 23042), (335, 23123), (386, 23351), (393, 23396), (440, 23591), (441, 23597), (444, 23606), (452, 23651), (454, 23666), (491, 23822), (494, 23840), (496, 23849), (512, 23903), (527, 23978), (528, 23981), (564, 24191), (566, 24203), (593, 24317), (621, 24533), (634, 24617), (639, 24641), (641, 24650),

Gene: Adjutor_31 Start: 24256, Stop: 26526, Start Num: 157
Candidate Starts for Adjutor_31:
(Start: 157 @24256 has 22 MA's), (196, 24391), (199, 24400), (233, 24574), (234, 24580), (237, 24592), (273, 24745), (282, 24760), (288, 24775), (382, 25156), (383, 25162), (391, 25207), (412, 25294), (455, 25495), (456, 25501), (466, 25549), (472, 25579), (476, 25603), (515, 25792), (523, 25819), (530, 25867), (544, 25939), (552, 25978), (553, 25999), (556, 26014), (559, 26032), (561, 26062), (578, 26146), (616, 26347), (621, 26389), (647, 26515),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 88
Candidate Starts for Adnama_29:
(Start: 88 @22791 has 134 MA's), (153, 22968), (158, 22989), (212, 23136), (249, 23310), (256, 23343), (263, 23379), (293, 23472), (311, 23532), (317, 23550), (346, 23682), (357, 23727), (386, 23859), (393, 23904), (411, 23964), (437, 24078), (440, 24099), (449, 24138), (452, 24159), (454, 24174), (489, 24324), (491, 24330), (494, 24348), (511, 24402), (527, 24486), (545, 24579), (593,

24825), (621, 25041), (634, 25125), (641, 25158),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 46
Candidate Starts for Alexphander_20:
(Start: 46 @17923 has 244 MA's), (58, 17944), (Start: 69 @17965 has 1 MA's), (82, 18004), (113, 18073), (115, 18082), (116, 18085), (123, 18103), (136, 18136), (140, 18151), (188, 18310), (189, 18313), (202, 18343), (206, 18358), (221, 18436), (225, 18457), (226, 18460), (239, 18526), (256, 18601), (257, 18607), (267, 18649), (269, 18655), (270, 18658), (284, 18691), (286, 18697), (293, 18727), (301, 18748), (308, 18778), (311, 18787), (336, 18895), (340, 18907), (342, 18916), (343, 18919), (344, 18928), (345, 18934), (348, 18949), (349, 18952), (354, 18973), (367, 19015), (372, 19048), (404, 19189), (406, 19195), (416, 19249), (417, 19252), (425, 19279), (438, 19339), (440, 19354), (443, 19366), (444, 19369), (457, 19435), (462, 19459), (466, 19480), (468, 19489), (482, 19549), (483, 19552), (491, 19588), (494, 19606), (497, 19618), (500, 19627), (509, 19654), (524, 19723), (527, 19741), (529, 19750), (530, 19762), (537, 19798), (542, 19828), (558, 19909), (565, 19963), (577, 20023), (585, 20065), (597, 20143), (608, 20200), (612, 20224), (618, 20278), (621, 20326), (630, 20368), (633, 20392), (634, 20395),

Gene: Alkhayr_58 Start: 35810, Stop: 38320, Start Num: 60
Candidate Starts for Alkhayr_58:
(Start: 60 @35810 has 35 MA's), (74, 35843), (100, 35912), (101, 35915), (109, 35939), (116, 35963), (126, 35987), (136, 36020), (193, 36227), (197, 36239), (198, 36242), (231, 36389), (233, 36419), (239, 36443), (250, 36473), (251, 36476), (256, 36503), (259, 36527), (269, 36557), (290, 36614), (294, 36638), (305, 36674), (308, 36686), (315, 36710), (317, 36713), (326, 36755), (348, 36851), (349, 36854), (409, 37109), (440, 37253), (452, 37313), (465, 37385), (466, 37388), (487, 37484), (527, 37658), (530, 37679), (548, 37772), (551, 37784), (565, 37874), (581, 37949), (596, 37994), (626, 38195), (632, 38249), (637, 38264),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 46
Candidate Starts for Aloeri_19:
(Start: 46 @17271 has 244 MA's), (58, 17292), (Start: 69 @17313 has 1 MA's), (82, 17352), (113, 17421), (115, 17430), (116, 17433), (123, 17451), (136, 17484), (140, 17499), (155, 17547), (188, 17658), (189, 17661), (206, 17706), (221, 17784), (226, 17808), (239, 17874), (240, 17883), (256, 17949), (257, 17955), (259, 17973), (267, 17997), (269, 18003), (270, 18006), (284, 18039), (286, 18045), (293, 18075), (301, 18096), (311, 18135), (315, 18150), (318, 18156), (349, 18300), (363, 18351), (385, 18462), (395, 18513), (403, 18537), (425, 18630), (435, 18675), (437, 18684), (440, 18705), (443, 18717), (444, 18720), (452, 18765), (462, 18810), (465, 18828), (466, 18831), (478, 18882), (489, 18933), (491, 18939), (494, 18957), (497, 18969), (500, 18978), (511, 19011), (527, 19092), (539, 19161), (545, 19188), (549, 19215), (559, 19266), (565, 19314), (611, 19557), (621, 19662), (627, 19683), (636, 19737), (640, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 46
Candidate Starts for AlpineSix_18:
(Start: 46 @17634 has 244 MA's), (58, 17655), (Start: 69 @17676 has 1 MA's), (82, 17715), (113, 17784), (115, 17793), (116, 17796), (123, 17814), (140, 17862), (188, 18021), (189, 18024), (205, 18066), (206, 18069), (221, 18147), (225, 18168), (226, 18171), (239, 18237), (240, 18246), (250, 18282), (256, 18312), (257, 18318), (267, 18360), (269, 18366), (270, 18369), (284, 18402), (286, 18408), (293, 18438), (301, 18459), (308, 18489), (311, 18498), (336, 18606), (340, 18618), (342, 18627), (343, 18630), (344, 18639), (345, 18645), (348, 18660), (349, 18663), (354, 18684), (367, 18726), (372, 18759), (404, 18900), (406, 18906), (416, 18960), (417, 18963), (425, 18990), (440, 19065), (443, 19077), (444, 19080), (457, 19146), (461, 19167), (462, 19170), (466, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (497, 19329), (524, 19434), (527, 19452), (529, 19461), (530, 19473), (537, 19509), (542, 19539), (546, 19560), (552, 19584), (558, 19620), (577, 19734), (585, 19776), (597, 19854), (608, 19911), (612, 19935), (618, 19989), (621,

20037), (630, 20079), (633, 20103), (634, 20106),

Gene: AmandaPanda_37 Start: 27145, Stop: 30258, Start Num: 1
Candidate Starts for AmandaPanda_37:
(1, 27145), (Start: 2 @27172 has 2 MA's), (3, 27175), (6, 27325), (7, 27328), (10, 27403), (12, 27412), (13, 27415), (15, 27484), (18, 27520), (23, 27595), (38, 27682), (45, 27718), (Start: 50 @27727 has 3 MA's), (59, 27748), (87, 27817), (94, 27841), (109, 27883), (110, 27886), (120, 27916), (133, 27958), (150, 28009), (169, 28090), (173, 28102), (188, 28162), (195, 28183), (206, 28222), (222, 28303), (230, 28336), (258, 28468), (269, 28507), (276, 28531), (279, 28546), (308, 28648), (312, 28660), (315, 28672), (317, 28675), (357, 28852), (367, 28885), (370, 28909), (381, 28966), (419, 29152), (434, 29218), (444, 29266), (453, 29317), (458, 29341), (459, 29347), (478, 29419), (482, 29443), (484, 29458), (500, 29527), (591, 29998), (598, 30052), (619, 30196),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 88
Candidate Starts for Amao_26:
(Start: 88 @21488 has 134 MA's), (153, 21665), (158, 21686), (212, 21833), (240, 21974), (249, 22007), (263, 22076), (293, 22169), (311, 22229), (317, 22247), (346, 22379), (357, 22424), (386, 22556), (393, 22601), (437, 22775), (440, 22796), (449, 22835), (452, 22856), (454, 22871), (491, 23027), (494, 23045), (511, 23099), (527, 23183), (587, 23507), (621, 23738), (634, 23822), (641, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 88
Candidate Starts for AmericanBeauty_28:
(Start: 88 @22271 has 134 MA's), (153, 22448), (158, 22469), (212, 22616), (240, 22757), (249, 22790), (256, 22823), (263, 22859), (293, 22952), (311, 23012), (317, 23030), (346, 23162), (357, 23207), (386, 23339), (393, 23384), (411, 23444), (437, 23558), (440, 23579), (449, 23618), (452, 23639), (454, 23654), (489, 23804), (491, 23810), (494, 23828), (511, 23882), (527, 23966), (545, 24059), (593, 24305), (621, 24521), (634, 24605), (641, 24638),

Gene: Antsirabe_22 Start: 20760, Stop: 23216, Start Num: 49
Candidate Starts for Antsirabe_22:
(Start: 49 @20760 has 12 MA's), (90, 20850), (94, 20865), (95, 20868), (138, 20988), (162, 21063), (211, 21222), (235, 21339), (296, 21561), (312, 21612), (337, 21720), (340, 21729), (346, 21759), (348, 21771), (355, 21795), (360, 21816), (416, 22083), (418, 22098), (419, 22104), (436, 22179), (450, 22251), (452, 22266), (478, 22374), (484, 22413), (519, 22548), (529, 22590), (531, 22605), (534, 22617), (550, 22716), (571, 22854), (598, 23010), (619, 23154), (622, 23196),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 46
Candidate Starts for ArcusAngelus_18:
(Start: 46 @17438 has 244 MA's), (58, 17459), (Start: 69 @17480 has 1 MA's), (82, 17519), (113, 17588), (115, 17597), (116, 17600), (123, 17618), (136, 17651), (140, 17666), (188, 17825), (189, 17828), (202, 17858), (206, 17873), (221, 17951), (225, 17972), (226, 17975), (239, 18041), (256, 18116), (257, 18122), (267, 18164), (269, 18170), (270, 18173), (284, 18206), (286, 18212), (293, 18242), (301, 18263), (308, 18293), (311, 18302), (336, 18410), (340, 18422), (342, 18431), (343, 18434), (344, 18443), (345, 18449), (348, 18464), (349, 18467), (354, 18488), (367, 18530), (372, 18563), (404, 18704), (406, 18710), (416, 18764), (417, 18767), (425, 18794), (438, 18854), (440, 18869), (443, 18881), (444, 18884), (457, 18950), (462, 18974), (466, 18995), (468, 19004), (482, 19064), (483, 19067), (491, 19103), (494, 19121), (497, 19133), (500, 19142), (509, 19169), (524, 19238), (527, 19256), (529, 19265), (530, 19277), (537, 19313), (542, 19343), (558, 19424), (565, 19478), (577, 19538), (585, 19580), (597, 19658), (608, 19715), (612, 19739), (618, 19793), (621, 19841), (630, 19883), (633, 19907), (634, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 46

Candidate Starts for Ardmore_18:
(40, 17435), (Start: 46 @17447 has 244 MA's), (58, 17468), (Start: 69 @17489 has 1 MA's), (82, 17528), (113, 17597), (115, 17606), (116, 17609), (123, 17627), (136, 17660), (140, 17675), (155, 17723), (188, 17834), (189, 17837), (202, 17867), (205, 17879), (206, 17882), (221, 17960), (226, 17984), (239, 18050), (250, 18095), (256, 18125), (257, 18131), (259, 18149), (267, 18173), (270, 18182), (284, 18215), (286, 18221), (293, 18251), (305, 18290), (308, 18302), (311, 18311), (315, 18326), (317, 18329), (342, 18440), (343, 18443), (344, 18452), (345, 18458), (348, 18473), (349, 18476), (354, 18497), (363, 18527), (367, 18539), (372, 18572), (393, 18683), (395, 18686), (404, 18713), (406, 18719), (416, 18773), (417, 18776), (440, 18878), (443, 18890), (444, 18893), (457, 18959), (462, 18983), (466, 19004), (468, 19013), (482, 19073), (483, 19076), (491, 19112), (494, 19130), (497, 19142), (500, 19151), (509, 19178), (524, 19247), (527, 19265), (529, 19274), (530, 19286), (537, 19322), (542, 19352), (546, 19373), (558, 19433), (565, 19487), (577, 19547), (585, 19589), (608, 19724), (612, 19748), (618, 19802), (621, 19850), (630, 19892), (633, 19916), (634, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 88
Candidate Starts for Argent26_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (240, 22760), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (545, 24062), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 46
Candidate Starts for Ariel_36:
(Start: 46 @27338 has 244 MA's), (123, 27533), (136, 27569), (140, 27584), (174, 27671), (179, 27686), (206, 27761), (209, 27773), (215, 27800), (235, 27905), (247, 27944), (250, 27953), (256, 27977), (257, 27983), (259, 28001), (265, 28019), (270, 28034), (272, 28043), (277, 28052), (284, 28067), (292, 28094), (293, 28103), (305, 28142), (308, 28154), (311, 28163), (333, 28247), (349, 28328), (357, 28358), (358, 28361), (367, 28391), (371, 28418), (373, 28427), (382, 28478), (384, 28487), (386, 28490), (392, 28526), (399, 28547), (408, 28583), (441, 28736), (452, 28790), (462, 28835), (465, 28853), (466, 28856), (475, 28895), (507, 29042), (511, 29051), (525, 29120), (527, 29135), (558, 29300), (569, 29387), (580, 29435), (593, 29486), (604, 29564), (635, 29786), (637, 29789), (641, 29816),

Gene: Ashwin_60 Start: 36580, Stop: 39090, Start Num: 60
Candidate Starts for Ashwin_60:
(Start: 60 @36580 has 35 MA's), (74, 36613), (100, 36682), (101, 36685), (109, 36709), (116, 36733), (126, 36757), (136, 36790), (193, 36997), (197, 37009), (198, 37012), (231, 37159), (233, 37189), (239, 37213), (250, 37243), (251, 37246), (256, 37273), (259, 37297), (269, 37327), (290, 37384), (305, 37444), (308, 37456), (315, 37480), (317, 37483), (326, 37525), (348, 37621), (349, 37624), (409, 37879), (440, 38023), (452, 38083), (465, 38155), (466, 38158), (487, 38254), (527, 38428), (530, 38449), (548, 38542), (551, 38554), (565, 38644), (581, 38719), (596, 38764), (626, 38965), (632, 39019), (637, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 88
Candidate Starts for Asriel_25:
(Start: 88 @21152 has 134 MA's), (153, 21329), (158, 21350), (212, 21497), (240, 21638), (249, 21671), (256, 21704), (263, 21740), (293, 21833), (311, 21893), (317, 21911), (335, 21992), (386, 22220), (393, 22265), (440, 22460), (441, 22466), (444, 22475), (452, 22520), (454, 22535), (491, 22691), (494, 22709), (496, 22718), (512, 22772), (527, 22847), (528, 22850), (564, 23060), (566, 23072), (593, 23186), (621, 23402), (634, 23486), (639, 23510), (641, 23519),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 46
Candidate Starts for Aubs_18:
(Start: 46 @17557 has 244 MA's), (58, 17578), (Start: 69 @17599 has 1 MA's), (81, 17635), (82, 17638), (113, 17707), (115, 17716), (116, 17719), (123, 17737), (136, 17770), (140, 17785), (155, 17833), (186, 17938), (188, 17944), (189, 17947), (205, 17989), (206, 17992), (226, 18094), (239, 18160), (250, 18205), (256, 18235), (257, 18241), (259, 18259), (267, 18283), (270, 18292), (284, 18325), (286, 18331), (301, 18382), (305, 18400), (308, 18412), (311, 18421), (315, 18436), (318, 18442), (342, 18550), (343, 18553), (344, 18562), (345, 18568), (348, 18583), (349, 18586), (354, 18607), (363, 18637), (367, 18649), (372, 18682), (386, 18748), (393, 18793), (395, 18796), (404, 18823), (406, 18829), (416, 18883), (417, 18886), (425, 18913), (440, 18988), (443, 19000), (444, 19003), (457, 19069), (462, 19093), (468, 19123), (478, 19165), (482, 19183), (483, 19186), (491, 19222), (494, 19240), (500, 19261), (509, 19288), (524, 19357), (527, 19375), (529, 19384), (530, 19396), (537, 19432), (546, 19483), (550, 19501), (558, 19543), (565, 19597), (585, 19699), (597, 19777), (608, 19834), (612, 19858), (618, 19912), (621, 19960), (633, 20026), (634, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 32
Candidate Starts for Avani_24:
(29, 17084), (Start: 32 @17093 has 7 MA's), (Start: 46 @17153 has 244 MA's), (62, 17186), (64, 17189), (95, 17258), (107, 17288), (174, 17468), (179, 17483), (189, 17519), (190, 17525), (191, 17528), (204, 17546), (206, 17558), (209, 17570), (214, 17594), (215, 17597), (247, 17741), (250, 17750), (256, 17774), (259, 17798), (267, 17822), (269, 17828), (277, 17849), (278, 17852), (286, 17870), (293, 17900), (303, 17930), (308, 17951), (333, 18044), (335, 18059), (336, 18068), (342, 18089), (343, 18092), (350, 18134), (363, 18176), (364, 18179), (367, 18188), (371, 18215), (373, 18224), (380, 18263), (384, 18284), (386, 18287), (392, 18323), (399, 18344), (416, 18422), (417, 18425), (433, 18479), (443, 18539), (460, 18626), (462, 18632), (466, 18653), (475, 18689), (486, 18743), (489, 18752), (507, 18830), (512, 18848), (519, 18884), (520, 18887), (524, 18905), (525, 18908), (527, 18923), (537, 18980), (539, 18992), (558, 19088), (569, 19175), (580, 19223), (584, 19247), (590, 19274), (593, 19283), (596, 19322), (604, 19361), (608, 19385), (611, 19406), (621, 19502), (627, 19523), (635, 19583), (637, 19586), (641, 19613),

Gene: Avocado_22 Start: 20763, Stop: 23240, Start Num: 49
Candidate Starts for Avocado_22:
(Start: 49 @20763 has 12 MA's), (95, 20871), (130, 20961), (156, 21051), (211, 21228), (235, 21345), (259, 21444), (288, 21525), (296, 21567), (304, 21591), (312, 21618), (313, 21621), (317, 21633), (335, 21714), (346, 21765), (376, 21894), (378, 21906), (404, 22032), (416, 22092), (418, 22107), (419, 22113), (434, 22182), (478, 22383), (529, 22614), (550, 22740), (598, 23034), (608, 23085), (619, 23178),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 46
Candidate Starts for Awesomesauce_19:
(Start: 46 @17268 has 244 MA's), (58, 17289), (Start: 69 @17310 has 1 MA's), (82, 17349), (113, 17418), (115, 17427), (116, 17430), (123, 17448), (136, 17481), (140, 17496), (155, 17544), (188, 17655), (189, 17658), (206, 17703), (221, 17781), (226, 17805), (239, 17871), (250, 17916), (256, 17946), (257, 17952), (259, 17970), (267, 17994), (270, 18003), (284, 18036), (286, 18042), (293, 18072), (305, 18111), (308, 18123), (311, 18132), (315, 18147), (317, 18150), (349, 18297), (363, 18348), (385, 18459), (395, 18510), (403, 18534), (425, 18627), (435, 18672), (437, 18681), (440, 18702), (443, 18714), (444, 18717), (452, 18762), (462, 18807), (465, 18825), (466, 18828), (478, 18879), (489, 18930), (491, 18936), (494, 18954), (497, 18966), (500, 18975), (511, 19008), (527, 19089), (539, 19158), (545, 19185), (549, 19212), (559, 19263), (565, 19311), (611, 19554), (621, 19659), (627, 19680), (636, 19734), (640, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 47
Candidate Starts for Azrael100_42:

(Start: 47 @28340 has 6 MA's), (75, 28409), (119, 28532), (122, 28538), (123, 28541), (132, 28565), (139, 28586), (186, 28742), (187, 28748), (189, 28754), (198, 28784), (200, 28790), (206, 28811), (208, 28820), (219, 28880), (234, 28958), (257, 29057), (264, 29090), (269, 29105), (270, 29108), (286, 29147), (301, 29198), (305, 29216), (311, 29237), (313, 29243), (321, 29270), (326, 29297), (342, 29366), (347, 29390), (350, 29411), (357, 29432), (361, 29441), (367, 29462), (372, 29495), (373, 29498), (382, 29549), (401, 29627), (407, 29645), (413, 29684), (440, 29801), (450, 29846), (461, 29903), (466, 29927), (468, 29936), (472, 29954), (482, 29999), (489, 30032), (495, 30068), (536, 30242), (537, 30260), (538, 30266), (549, 30323), (607, 30647), (610, 30665), (615, 30716), (623, 30779), (633, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 46
Candidate Starts for BAKA_36:
(Start: 46 @29892 has 244 MA's), (123, 30087), (136, 30123), (140, 30138), (155, 30186), (188, 30297), (189, 30300), (202, 30330), (206, 30345), (221, 30423), (226, 30447), (239, 30513), (250, 30558), (256, 30588), (257, 30594), (259, 30612), (267, 30636), (270, 30645), (284, 30678), (286, 30684), (293, 30714), (305, 30753), (308, 30765), (311, 30774), (315, 30789), (317, 30792), (342, 30903), (343, 30906), (344, 30915), (345, 30921), (348, 30936), (349, 30939), (354, 30960), (363, 30990), (367, 31002), (372, 31035), (386, 31101), (393, 31146), (395, 31149), (404, 31176), (406, 31182), (416, 31236), (417, 31239), (438, 31326), (440, 31341), (443, 31353), (444, 31356), (457, 31422), (466, 31467), (468, 31476), (482, 31536), (483, 31539), (491, 31575), (494, 31593), (497, 31605), (500, 31614), (509, 31641), (524, 31710), (527, 31728), (529, 31737), (530, 31749), (537, 31785), (542, 31815), (546, 31836), (552, 31860), (558, 31896), (565, 31950), (577, 32010), (585, 32052), (608, 32187), (612, 32211), (618, 32265), (621, 32313), (630, 32355), (633, 32379), (634, 32382),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 88
Candidate Starts for BaboJay_25:
(Start: 88 @21834 has 134 MA's), (153, 22011), (158, 22032), (212, 22179), (240, 22320), (249, 22353), (256, 22386), (263, 22422), (293, 22515), (311, 22575), (317, 22593), (346, 22725), (357, 22770), (386, 22902), (393, 22947), (437, 23121), (440, 23142), (449, 23181), (452, 23202), (454, 23217), (489, 23367), (491, 23373), (494, 23391), (511, 23445), (527, 23529), (545, 23622), (593, 23868), (621, 24084), (634, 24168), (641, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 88
Candidate Starts for BadStone_25:
(Start: 88 @22283 has 134 MA's), (153, 22460), (158, 22481), (212, 22628), (240, 22769), (249, 22802), (256, 22835), (263, 22871), (293, 22964), (311, 23024), (335, 23123), (386, 23351), (393, 23396), (440, 23591), (441, 23597), (444, 23606), (452, 23651), (454, 23666), (491, 23822), (494, 23840), (496, 23849), (512, 23903), (527, 23978), (528, 23981), (564, 24191), (566, 24203), (593, 24317), (621, 24533), (634, 24617), (639, 24641), (641, 24650),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 88
Candidate Starts for Balomoji_25:
(Start: 88 @22017 has 134 MA's), (153, 22194), (158, 22215), (212, 22362), (240, 22503), (249, 22536), (256, 22569), (263, 22605), (293, 22698), (311, 22758), (317, 22776), (335, 22857), (386, 23085), (393, 23130), (440, 23325), (441, 23331), (444, 23340), (452, 23385), (454, 23400), (491, 23556), (494, 23574), (496, 23583), (512, 23637), (527, 23712), (528, 23715), (564, 23925), (566, 23937), (593, 24051), (621, 24267), (634, 24351), (639, 24375), (641, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 88
Candidate Starts for Barbarian_25:
(Start: 88 @21152 has 134 MA's), (153, 21329), (158, 21350), (212, 21497), (240, 21638), (249, 21671), (256, 21704), (263, 21740), (293, 21833), (311, 21893), (317, 21911), (335, 21992), (386,

22220), (393, 22265), (440, 22460), (441, 22466), (444, 22475), (452, 22520), (454, 22535), (491, 22691), (494, 22709), (496, 22718), (512, 22772), (527, 22847), (528, 22850), (564, 23060), (566, 23072), (593, 23186), (621, 23402), (634, 23486), (639, 23510), (641, 23519),

Gene: Barnyard_36 Start: 26772, Stop: 29858, Start Num: 2
Candidate Starts for Barnyard_36:
(1, 26745), (Start: 2 @26772 has 2 MA's), (3, 26775), (4, 26895), (5, 26907), (6, 26925), (7, 26928), (8, 26982), (9, 26991), (12, 27012), (15, 27084), (18, 27120), (23, 27195), (37, 27273), (38, 27282), (39, 27288), (43, 27315), (92, 27432), (109, 27483), (110, 27486), (120, 27516), (129, 27540), (133, 27558), (169, 27690), (173, 27702), (195, 27783), (229, 27933), (250, 28017), (257, 28053), (269, 28107), (270, 28110), (274, 28128), (279, 28146), (291, 28182), (313, 28263), (328, 28323), (333, 28341), (340, 28377), (348, 28419), (352, 28431), (359, 28461), (363, 28473), (366, 28482), (380, 28557), (396, 28644), (419, 28752), (431, 28797), (434, 28818), (444, 28866), (451, 28905), (453, 28917), (458, 28941), (459, 28947), (466, 28977), (478, 29019), (480, 29037), (484, 29058), (490, 29079), (493, 29100), (497, 29118), (500, 29127), (514, 29181), (519, 29190), (529, 29232), (545, 29325), (551, 29358), (567, 29478), (574, 29505), (591, 29598), (598, 29652), (619, 29796),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 88
Candidate Starts for Bask21_26:
(Start: 88 @21463 has 134 MA's), (153, 21640), (158, 21661), (212, 21808), (240, 21949), (249, 21982), (256, 22015), (263, 22051), (293, 22144), (311, 22204), (317, 22222), (335, 22303), (386, 22531), (393, 22576), (440, 22771), (441, 22777), (444, 22786), (452, 22831), (454, 22846), (491, 23002), (494, 23020), (496, 23029), (527, 23158), (528, 23161), (564, 23371), (566, 23383), (593, 23497), (621, 23713), (634, 23797), (639, 23821), (641, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 46
Candidate Starts for Batiatus_18:
(40, 17436), (Start: 46 @17448 has 244 MA's), (58, 17469), (Start: 69 @17490 has 1 MA's), (82, 17529), (113, 17598), (115, 17607), (116, 17610), (123, 17628), (136, 17661), (140, 17676), (155, 17724), (188, 17835), (189, 17838), (202, 17868), (205, 17880), (206, 17883), (221, 17961), (226, 17985), (239, 18051), (250, 18096), (256, 18126), (257, 18132), (259, 18150), (267, 18174), (270, 18183), (284, 18216), (286, 18222), (293, 18252), (305, 18291), (308, 18303), (311, 18312), (315, 18327), (317, 18330), (342, 18441), (343, 18444), (344, 18453), (345, 18459), (348, 18474), (349, 18477), (354, 18498), (363, 18528), (367, 18540), (372, 18573), (393, 18684), (395, 18687), (404, 18714), (406, 18720), (416, 18774), (417, 18777), (438, 18864), (440, 18879), (443, 18891), (444, 18894), (457, 18960), (462, 18984), (466, 19005), (468, 19014), (482, 19074), (483, 19077), (491, 19113), (494, 19131), (497, 19143), (500, 19152), (509, 19179), (524, 19248), (527, 19266), (529, 19275), (530, 19287), (537, 19323), (542, 19353), (546, 19374), (552, 19398), (558, 19434), (565, 19488), (577, 19548), (585, 19590), (597, 19668), (608, 19725), (612, 19749), (618, 19803), (621, 19851), (630, 19893), (633, 19917), (634, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 46
Candidate Starts for Beakin_19:
(40, 17243), (Start: 46 @17255 has 244 MA's), (58, 17276), (Start: 69 @17297 has 1 MA's), (82, 17336), (113, 17405), (115, 17414), (116, 17417), (123, 17435), (136, 17468), (140, 17483), (155, 17525), (188, 17636), (189, 17639), (202, 17669), (206, 17684), (221, 17762), (226, 17786), (239, 17852), (250, 17897), (256, 17927), (257, 17933), (259, 17951), (267, 17975), (270, 17984), (284, 18017), (286, 18023), (293, 18053), (305, 18092), (308, 18104), (311, 18113), (315, 18128), (317, 18131), (342, 18242), (343, 18245), (344, 18254), (345, 18260), (348, 18275), (349, 18278), (354, 18299), (363, 18329), (367, 18341), (372, 18374), (386, 18440), (393, 18485), (395, 18488), (404, 18515), (406, 18521), (416, 18575), (417, 18578), (438, 18665), (440, 18680), (443, 18692), (444, 18695), (457, 18761), (462, 18785), (466, 18806), (468, 18815), (482, 18875), (483, 18878), (491, 18914), (494, 18932), (500, 18953), (509, 18980), (524, 19049), (527, 19067), (529, 19076), (530,

19088), (537, 19124), (546, 19175), (550, 19193), (558, 19235), (565, 19289), (585, 19391), (597, 19469), (608, 19526), (612, 19550), (618, 19604), (621, 19652), (633, 19718), (634, 19721),

Gene: Beanstalk_19 Start: 17400, Stop: 19937, Start Num: 46
Candidate Starts for Beanstalk_19:
(Start: 46 @17400 has 244 MA's), (58, 17421), (Start: 69 @17442 has 1 MA's), (82, 17481), (113, 17550), (115, 17559), (116, 17562), (123, 17580), (136, 17613), (140, 17628), (186, 17781), (189, 17790), (206, 17835), (225, 17934), (226, 17937), (239, 18003), (256, 18078), (257, 18084), (259, 18102), (267, 18126), (270, 18135), (284, 18168), (286, 18174), (293, 18204), (305, 18243), (308, 18255), (311, 18264), (315, 18279), (317, 18282), (342, 18393), (343, 18396), (344, 18405), (345, 18411), (348, 18426), (349, 18429), (354, 18450), (363, 18480), (367, 18492), (372, 18525), (393, 18636), (395, 18639), (404, 18666), (406, 18672), (416, 18726), (417, 18729), (438, 18816), (440, 18831), (443, 18843), (444, 18846), (457, 18912), (462, 18936), (466, 18957), (468, 18966), (482, 19026), (483, 19029), (494, 19083), (497, 19095), (500, 19104), (509, 19131), (522, 19188), (524, 19200), (527, 19218), (529, 19227), (530, 19239), (537, 19275), (542, 19305), (546, 19326), (552, 19350), (558, 19386), (565, 19440), (577, 19500), (585, 19542), (608, 19677), (612, 19701), (618, 19755), (621, 19803), (630, 19845), (633, 19869), (634, 19872),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 16
Candidate Starts for Beckerton_29:
(Start: 16 @26219 has 10 MA's), (25, 26351), (26, 26363), (28, 26372), (42, 26441), (44, 26447), (72, 26507), (78, 26528), (96, 26576), (111, 26618), (118, 26642), (131, 26675), (142, 26711), (148, 26723), (173, 26816), (189, 26873), (201, 26912), (229, 27038), (240, 27107), (248, 27137), (257, 27179), (270, 27230), (301, 27320), (305, 27338), (326, 27419), (335, 27458), (340, 27479), (372, 27617), (379, 27656), (392, 27719), (417, 27821), (465, 28046), (543, 28409), (548, 28436), (594, 28679), (595, 28712), (600, 28736), (617, 28856), (628, 28934), (641, 29021), (646, 29036), (648, 29042),

Gene: Becksu_26 Start: 22467, Stop: 24863, Start Num: 88
Candidate Starts for Becksu_26:
(Start: 88 @22467 has 134 MA's), (153, 22644), (158, 22665), (212, 22812), (240, 22953), (249, 22986), (256, 23019), (263, 23055), (293, 23148), (311, 23208), (317, 23226), (346, 23358), (357, 23403), (386, 23535), (393, 23580), (411, 23640), (437, 23754), (440, 23775), (449, 23814), (452, 23835), (454, 23850), (489, 24000), (491, 24006), (494, 24024), (511, 24078), (527, 24162), (545, 24255), (593, 24501), (621, 24717), (634, 24801), (641, 24834),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 88
Candidate Starts for Bench_28:
(Start: 88 @22144 has 134 MA's), (153, 22321), (158, 22342), (212, 22489), (249, 22663), (256, 22696), (263, 22732), (293, 22825), (311, 22885), (317, 22903), (346, 23035), (357, 23080), (386, 23212), (393, 23257), (411, 23317), (437, 23431), (440, 23452), (449, 23491), (452, 23512), (454, 23527), (489, 23677), (491, 23683), (494, 23701), (511, 23755), (527, 23839), (545, 23932), (593, 24178), (621, 24394), (634, 24478), (641, 24511),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 88
Candidate Starts for BigBubba_27:
(Start: 88 @22047 has 134 MA's), (153, 22224), (158, 22245), (212, 22392), (240, 22533), (249, 22566), (256, 22599), (263, 22635), (293, 22728), (311, 22788), (317, 22806), (346, 22938), (357, 22983), (386, 23115), (393, 23160), (437, 23334), (440, 23355), (449, 23394), (452, 23415), (454, 23430), (491, 23586), (494, 23604), (511, 23658), (527, 23742), (545, 23835), (593, 24081), (621, 24297), (634, 24381), (641, 24414),

Gene: BigMama_28 Start: 24332, Stop: 26602, Start Num: 157

Candidate Starts for BigMama_28:
(Start: 157 @24332 has 22 MA's), (196, 24467), (199, 24476), (233, 24650), (234, 24656), (237, 24668), (273, 24821), (282, 24836), (288, 24851), (382, 25232), (383, 25238), (391, 25283), (412, 25370), (455, 25571), (456, 25577), (466, 25625), (472, 25655), (476, 25679), (515, 25868), (523, 25895), (530, 25943), (544, 26015), (552, 26054), (553, 26075), (556, 26090), (559, 26108), (561, 26138), (578, 26222), (616, 26423), (621, 26465), (647, 26591),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 88
Candidate Starts for BilboSwaggins_26:
(Start: 88 @22284 has 134 MA's), (153, 22461), (158, 22482), (212, 22629), (240, 22770), (249, 22803), (256, 22836), (263, 22872), (293, 22965), (311, 23025), (317, 23043), (335, 23124), (386, 23352), (393, 23397), (440, 23592), (441, 23598), (444, 23607), (452, 23652), (454, 23667), (491, 23823), (494, 23841), (496, 23850), (527, 23979), (528, 23982), (564, 24192), (566, 24204), (593, 24318), (621, 24534), (634, 24618), (639, 24642), (641, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 46
Candidate Starts for Bipolar_18:
(41, 17386), (Start: 46 @17398 has 244 MA's), (58, 17419), (Start: 69 @17440 has 1 MA's), (84, 17479), (113, 17548), (115, 17557), (116, 17560), (123, 17578), (136, 17611), (149, 17644), (155, 17677), (179, 17731), (189, 17767), (191, 17776), (204, 17794), (209, 17818), (214, 17842), (235, 17950), (240, 17974), (247, 17989), (250, 17998), (256, 18022), (257, 18028), (259, 18046), (263, 18058), (265, 18064), (267, 18070), (269, 18076), (270, 18079), (272, 18088), (277, 18097), (284, 18112), (293, 18148), (305, 18187), (308, 18199), (311, 18208), (333, 18292), (349, 18373), (357, 18403), (358, 18406), (367, 18436), (371, 18463), (373, 18472), (382, 18523), (384, 18532), (386, 18535), (392, 18571), (399, 18592), (408, 18628), (441, 18781), (452, 18835), (462, 18880), (465, 18898), (466, 18901), (475, 18940), (507, 19087), (511, 19096), (525, 19165), (527, 19180), (558, 19345), (569, 19432), (580, 19480), (593, 19531), (604, 19609), (635, 19831), (637, 19834), (641, 19861),

Gene: BirdsNest_33 Start: 28321, Stop: 30801, Start Num: 57
Candidate Starts for BirdsNest_33:
(Start: 57 @28321 has 3 MA's), (103, 28435), (114, 28468), (247, 28945), (260, 29011), (263, 29023), (269, 29041), (288, 29107), (296, 29149), (323, 29242), (328, 29263), (376, 29476), (409, 29632), (415, 29665), (419, 29692), (433, 29746), (461, 29896), (466, 29920), (478, 29962), (531, 30193), (548, 30292), (607, 30634), (619, 30739), (624, 30784),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 35
Candidate Starts for Blarby_25:
(31, 17604), (35, 17613), (Start: 48 @17673 has 1 MA's), (62, 17706), (67, 17709), (106, 17808), (155, 17949), (188, 18060), (189, 18063), (202, 18093), (205, 18105), (206, 18108), (226, 18210), (239, 18276), (250, 18321), (256, 18351), (257, 18357), (259, 18375), (267, 18399), (270, 18408), (284, 18441), (286, 18447), (293, 18477), (305, 18516), (308, 18528), (311, 18537), (315, 18552), (317, 18555), (342, 18666), (343, 18669), (344, 18678), (345, 18684), (348, 18699), (349, 18702), (354, 18723), (363, 18753), (367, 18765), (372, 18798), (393, 18909), (395, 18912), (404, 18939), (406, 18945), (416, 18999), (417, 19002), (438, 19089), (440, 19104), (443, 19116), (444, 19119), (457, 19185), (466, 19230), (468, 19239), (482, 19299), (483, 19302), (491, 19338), (494, 19356), (500, 19377), (509, 19404), (524, 19473), (527, 19491), (529, 19500), (530, 19512), (537, 19548), (542, 19578), (546, 19599), (550, 19617), (558, 19659), (565, 19713), (585, 19815), (608, 19950), (612, 19974), (618, 20028), (621, 20076), (630, 20118), (633, 20142), (634, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 60
Candidate Starts for Blessica_59:

(Start: 60 @36409 has 35 MA's), (74, 36442), (100, 36511), (101, 36514), (109, 36538), (116, 36562), (126, 36586), (136, 36619), (193, 36826), (197, 36838), (198, 36841), (231, 36988), (233, 37018), (239, 37042), (250, 37072), (251, 37075), (256, 37102), (259, 37126), (269, 37156), (290, 37213), (294, 37237), (305, 37273), (308, 37285), (315, 37309), (317, 37312), (326, 37354), (348, 37450), (349, 37453), (409, 37708), (440, 37852), (452, 37912), (465, 37984), (466, 37987), (487, 38083), (527, 38257), (530, 38278), (548, 38371), (551, 38383), (565, 38473), (581, 38548), (596, 38593), (626, 38794), (632, 38848), (637, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 46
Candidate Starts for Blexus_18:
(Start: 46 @17586 has 244 MA's), (58, 17607), (Start: 69 @17628 has 1 MA's), (82, 17667), (113, 17736), (115, 17745), (116, 17748), (123, 17766), (140, 17814), (155, 17862), (188, 17973), (189, 17976), (206, 18021), (221, 18099), (226, 18123), (239, 18189), (256, 18264), (257, 18270), (259, 18288), (267, 18312), (270, 18321), (284, 18354), (286, 18360), (293, 18390), (301, 18411), (308, 18441), (311, 18450), (336, 18558), (340, 18570), (342, 18579), (343, 18582), (345, 18597), (348, 18612), (349, 18615), (354, 18636), (367, 18678), (372, 18711), (393, 18822), (395, 18825), (404, 18852), (406, 18858), (416, 18912), (417, 18915), (425, 18942), (440, 19017), (443, 19029), (444, 19032), (457, 19098), (461, 19119), (462, 19122), (466, 19143), (468, 19152), (478, 19194), (482, 19212), (483, 19215), (489, 19245), (494, 19269), (497, 19281), (500, 19290), (524, 19386), (527, 19404), (529, 19413), (530, 19425), (537, 19461), (542, 19491), (545, 19500), (546, 19512), (558, 19572), (565, 19626), (577, 19686), (585, 19728), (608, 19863), (612, 19887), (618, 19941), (621, 19989), (630, 20031), (633, 20055), (634, 20058),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 46
Candidate Starts for BlueCrab_18:
(40, 17556), (Start: 46 @17568 has 244 MA's), (58, 17589), (Start: 69 @17610 has 1 MA's), (82, 17649), (113, 17718), (115, 17727), (116, 17730), (123, 17748), (140, 17796), (155, 17844), (188, 17955), (189, 17958), (206, 18003), (221, 18081), (226, 18105), (239, 18171), (250, 18216), (256, 18246), (257, 18252), (259, 18270), (267, 18294), (270, 18303), (284, 18336), (286, 18342), (293, 18372), (305, 18411), (308, 18423), (311, 18432), (315, 18447), (317, 18450), (342, 18561), (343, 18564), (344, 18573), (345, 18579), (348, 18594), (349, 18597), (354, 18618), (363, 18648), (367, 18660), (372, 18693), (393, 18804), (395, 18807), (404, 18834), (406, 18840), (416, 18894), (417, 18897), (440, 18999), (443, 19011), (444, 19014), (457, 19080), (462, 19104), (466, 19125), (468, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (500, 19272), (509, 19299), (524, 19368), (527, 19386), (529, 19395), (530, 19407), (537, 19443), (546, 19494), (550, 19512), (558, 19554), (565, 19608), (585, 19710), (608, 19845), (612, 19869), (618, 19923), (627, 19992), (633, 20037), (634, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 46
Candidate Starts for BobaPhett_18:
(Start: 46 @17397 has 244 MA's), (58, 17418), (66, 17439), (83, 17478), (113, 17547), (115, 17556), (116, 17559), (123, 17577), (140, 17625), (155, 17673), (188, 17784), (189, 17787), (203, 17820), (206, 17832), (221, 17910), (233, 17976), (240, 18009), (253, 18063), (256, 18075), (269, 18129), (270, 18132), (272, 18141), (287, 18174), (299, 18213), (301, 18216), (304, 18231), (305, 18234), (313, 18261), (314, 18267), (315, 18270), (317, 18273), (323, 18300), (327, 18318), (328, 18321), (344, 18396), (348, 18417), (349, 18420), (356, 18447), (363, 18471), (372, 18516), (373, 18519), (382, 18570), (395, 18633), (399, 18642), (405, 18666), (431, 18771), (432, 18774), (440, 18825), (441, 18831), (443, 18837), (444, 18840), (452, 18885), (454, 18900), (461, 18927), (466, 18951), (478, 19002), (482, 19020), (483, 19023), (484, 19035), (497, 19089), (527, 19212), (538, 19275), (550, 19338), (560, 19413), (599, 19614), (629, 19824), (636, 19863), (637, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 46
Candidate Starts for Bobi_20:

(40, 17975), (Start: 46 @17987 has 244 MA's), (58, 18008), (Start: 69 @18029 has 1 MA's), (82, 18068), (113, 18137), (115, 18146), (116, 18149), (123, 18167), (136, 18200), (140, 18215), (155, 18263), (188, 18374), (189, 18377), (202, 18407), (205, 18419), (206, 18422), (221, 18500), (226, 18524), (239, 18590), (250, 18635), (256, 18665), (257, 18671), (259, 18689), (267, 18713), (270, 18722), (284, 18755), (286, 18761), (293, 18791), (305, 18830), (308, 18842), (311, 18851), (315, 18866), (317, 18869), (342, 18980), (343, 18983), (344, 18992), (345, 18998), (348, 19013), (349, 19016), (363, 19067), (367, 19079), (372, 19112), (386, 19178), (393, 19223), (395, 19226), (404, 19253), (406, 19259), (416, 19313), (417, 19316), (438, 19403), (440, 19418), (443, 19430), (444, 19433), (457, 19499), (466, 19544), (468, 19553), (482, 19613), (483, 19616), (491, 19652), (494, 19670), (497, 19682), (500, 19691), (509, 19718), (524, 19787), (527, 19805), (529, 19814), (530, 19826), (537, 19862), (542, 19892), (546, 19913), (552, 19937), (558, 19973), (565, 20027), (577, 20087), (585, 20129), (608, 20264), (612, 20288), (618, 20342), (621, 20390), (630, 20432), (633, 20456), (634, 20459),

Gene: BobtimousPrime_31 Start: 26139, Stop: 28982, Start Num: 16
Candidate Starts for BobtimousPrime_31:
(Start: 16 @26139 has 10 MA's), (25, 26271), (26, 26283), (28, 26292), (42, 26361), (72, 26427), (78, 26448), (96, 26496), (111, 26538), (118, 26562), (131, 26595), (142, 26631), (148, 26643), (173, 26736), (189, 26793), (201, 26832), (240, 27027), (248, 27057), (257, 27099), (301, 27240), (305, 27258), (326, 27339), (335, 27378), (340, 27399), (372, 27537), (379, 27576), (417, 27741), (435, 27813), (443, 27855), (446, 27867), (465, 27966), (543, 28329), (594, 28599), (595, 28632), (600, 28656), (617, 28776), (628, 28854), (641, 28941), (646, 28956), (648, 28962),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 46
Candidate Starts for BodEinwohner17_18:
(Start: 46 @17569 has 244 MA's), (58, 17590), (Start: 69 @17611 has 1 MA's), (82, 17650), (113, 17719), (115, 17728), (116, 17731), (123, 17749), (140, 17797), (186, 17950), (189, 17959), (206, 18004), (225, 18103), (226, 18106), (239, 18172), (256, 18247), (257, 18253), (259, 18271), (267, 18295), (270, 18304), (284, 18337), (286, 18343), (293, 18373), (301, 18394), (308, 18424), (311, 18433), (315, 18448), (317, 18451), (336, 18541), (340, 18553), (342, 18562), (343, 18565), (345, 18580), (348, 18595), (349, 18598), (354, 18619), (367, 18661), (372, 18694), (393, 18805), (395, 18808), (404, 18835), (406, 18841), (416, 18895), (417, 18898), (425, 18925), (440, 19000), (443, 19012), (444, 19015), (457, 19081), (461, 19102), (462, 19105), (466, 19126), (468, 19135), (478, 19177), (482, 19195), (483, 19198), (489, 19228), (494, 19252), (497, 19264), (500, 19273), (524, 19369), (527, 19387), (529, 19396), (530, 19408), (537, 19444), (542, 19474), (545, 19483), (546, 19495), (558, 19555), (565, 19609), (577, 19669), (585, 19711), (608, 19846), (612, 19870), (618, 19924), (621, 19972), (630, 20014), (633, 20038), (634, 20041),

Gene: Bogg_26 Start: 21184, Stop: 23580, Start Num: 88
Candidate Starts for Bogg_26:
(Start: 88 @21184 has 134 MA's), (153, 21361), (158, 21382), (212, 21529), (240, 21670), (249, 21703), (256, 21736), (263, 21772), (293, 21865), (311, 21925), (317, 21943), (346, 22075), (357, 22120), (386, 22252), (393, 22297), (411, 22357), (437, 22471), (440, 22492), (449, 22531), (452, 22552), (454, 22567), (489, 22717), (491, 22723), (494, 22741), (511, 22795), (527, 22879), (545, 22972), (593, 23218), (621, 23434), (634, 23518), (641, 23551),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 60
Candidate Starts for Bogie_20:
(Start: 60 @18761 has 35 MA's), (116, 18914), (225, 19319), (231, 19334), (233, 19364), (234, 19370), (239, 19388), (267, 19496), (286, 19547), (317, 19658), (318, 19661), (326, 19700), (335, 19733), (349, 19799), (367, 19859), (371, 19886), (372, 19892), (440, 20198), (452, 20258), (460, 20306), (461, 20309), (465, 20330), (466, 20333), (527, 20594), (550, 20717), (551, 20720), (565, 20810), (576, 20867), (581, 20888), (599, 20948), (628, 21149), (632, 21191),

Gene: Boilgate_24 Start: 21197, Stop: 23551, Start Num: 97
Candidate Starts for Boilgate_24:
(Start: 97 @21197 has 1 MA's), (132, 21308), (144, 21338), (170, 21431), (172, 21440), (185, 21482), (188, 21494), (191, 21506), (195, 21518), (219, 21605), (248, 21728), (250, 21734), (283, 21866), (305, 21938), (308, 21950), (310, 21956), (323, 22004), (342, 22088), (353, 22142), (361, 22172), (363, 22181), (364, 22184), (369, 22214), (409, 22391), (422, 22469), (433, 22502), (443, 22562), (444, 22565), (452, 22610), (453, 22616), (454, 22625), (462, 22655), (468, 22685), (471, 22697), (484, 22754), (490, 22775), (503, 22832), (505, 22835), (524, 22910), (529, 22937), (530, 22949), (532, 22955), (535, 22964), (547, 23048), (563, 23144), (565, 23153), (573, 23192), (588, 23276), (596, 23336), (601, 23363), (623, 23522),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 46
Candidate Starts for Boomer_19:
(Start: 46 @17212 has 244 MA's), (58, 17233), (Start: 69 @17254 has 1 MA's), (82, 17293), (113, 17362), (115, 17371), (116, 17374), (123, 17392), (136, 17425), (140, 17440), (155, 17488), (188, 17599), (189, 17602), (202, 17632), (206, 17647), (221, 17725), (226, 17749), (239, 17815), (250, 17860), (256, 17890), (257, 17896), (259, 17914), (267, 17938), (270, 17947), (284, 17980), (286, 17986), (293, 18016), (301, 18037), (305, 18055), (308, 18067), (311, 18076), (315, 18091), (317, 18094), (334, 18172), (342, 18205), (343, 18208), (344, 18217), (345, 18223), (348, 18238), (349, 18241), (354, 18262), (363, 18292), (367, 18304), (372, 18337), (393, 18448), (395, 18451), (404, 18478), (406, 18484), (416, 18538), (417, 18541), (438, 18628), (440, 18643), (443, 18655), (444, 18658), (457, 18724), (462, 18748), (466, 18769), (468, 18778), (482, 18838), (483, 18841), (489, 18871), (494, 18895), (497, 18907), (500, 18916), (509, 18943), (524, 19012), (527, 19030), (529, 19039), (530, 19051), (537, 19087), (542, 19117), (546, 19138), (552, 19162), (558, 19198), (565, 19252), (577, 19312), (585, 19354), (597, 19432), (608, 19489), (612, 19513), (618, 19567), (621, 19615), (633, 19681), (634, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 60
Candidate Starts for Bora_56:
(Start: 60 @35766 has 35 MA's), (74, 35799), (100, 35868), (101, 35871), (109, 35895), (116, 35919), (126, 35943), (136, 35976), (178, 36129), (193, 36183), (197, 36195), (198, 36198), (231, 36345), (233, 36375), (239, 36399), (250, 36429), (251, 36432), (256, 36459), (259, 36483), (269, 36513), (290, 36570), (305, 36630), (308, 36642), (315, 36666), (317, 36669), (326, 36711), (348, 36807), (349, 36810), (409, 37065), (440, 37209), (452, 37269), (465, 37341), (466, 37344), (487, 37440), (527, 37614), (529, 37623), (530, 37635), (548, 37728), (551, 37740), (565, 37830), (581, 37905), (596, 37950), (626, 38151), (632, 38205), (637, 38220),

Gene: Brewer_26 Start: 22532, Stop: 24928, Start Num: 88
Candidate Starts for Brewer_26:
(Start: 88 @22532 has 134 MA's), (153, 22709), (158, 22730), (212, 22877), (240, 23018), (249, 23051), (256, 23084), (263, 23120), (293, 23213), (311, 23273), (317, 23291), (346, 23423), (357, 23468), (386, 23600), (393, 23645), (437, 23819), (440, 23840), (449, 23879), (452, 23900), (454, 23915), (491, 24071), (494, 24089), (511, 24143), (527, 24227), (545, 24320), (593, 24566), (621, 24782), (634, 24866), (641, 24899),

Gene: BronnyJames_30 Start: 25923, Stop: 28418, Start Num: 46
Candidate Starts for BronnyJames_30:
(Start: 46 @25923 has 244 MA's), (123, 26118), (136, 26154), (140, 26169), (174, 26256), (179, 26271), (189, 26307), (190, 26313), (206, 26346), (209, 26358), (247, 26529), (250, 26538), (256, 26562), (269, 26616), (284, 26652), (286, 26658), (293, 26688), (303, 26718), (308, 26739), (311, 26748), (315, 26763), (333, 26832), (349, 26913), (350, 26922), (357, 26943), (358, 26946), (367, 26976), (373, 27012), (382, 27063), (384, 27072), (386, 27075), (390, 27102), (392, 27111), (399,

27132), (416, 27210), (417, 27213), (435, 27285), (441, 27321), (443, 27327), (451, 27369), (452, 27375), (461, 27417), (462, 27420), (466, 27441), (467, 27447), (468, 27450), (475, 27480), (507, 27621), (511, 27630), (512, 27639), (518, 27672), (524, 27696), (525, 27699), (527, 27714), (530, 27735), (537, 27771), (538, 27777), (539, 27783), (543, 27804), (548, 27831), (569, 27966), (584, 28038), (586, 28044), (593, 28062), (608, 28161), (621, 28278), (635, 28359), (637, 28362), (641, 28389),

Gene: Brookers_19 Start: 17254, Stop: 19731, Start Num: 46
Candidate Starts for Brookers_19:
(41, 17242), (Start: 46 @17254 has 244 MA's), (58, 17275), (Start: 69 @17296 has 1 MA's), (84, 17335), (113, 17404), (115, 17413), (116, 17416), (123, 17434), (136, 17467), (140, 17482), (174, 17569), (179, 17584), (189, 17620), (190, 17626), (206, 17659), (209, 17671), (247, 17842), (250, 17851), (256, 17875), (269, 17929), (284, 17965), (286, 17971), (293, 18001), (303, 18031), (308, 18052), (311, 18061), (333, 18145), (345, 18208), (349, 18226), (350, 18235), (357, 18256), (358, 18259), (363, 18277), (367, 18289), (371, 18316), (373, 18325), (382, 18376), (384, 18385), (386, 18388), (390, 18415), (392, 18424), (399, 18445), (416, 18523), (417, 18526), (441, 18634), (443, 18640), (452, 18688), (461, 18730), (462, 18733), (466, 18754), (467, 18760), (468, 18763), (475, 18793), (507, 18934), (512, 18952), (518, 18985), (524, 19009), (525, 19012), (527, 19027), (530, 19048), (537, 19084), (538, 19090), (543, 19117), (548, 19144), (569, 19279), (580, 19327), (584, 19351), (586, 19357), (593, 19375), (608, 19474), (611, 19495), (613, 19513), (621, 19591), (627, 19612), (637, 19675), (639, 19693), (644, 19711),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 88
Candidate Starts for Bruin_26:
(Start: 88 @22307 has 134 MA's), (153, 22484), (158, 22505), (212, 22652), (240, 22793), (249, 22826), (256, 22859), (263, 22895), (293, 22988), (311, 23048), (317, 23066), (346, 23198), (357, 23243), (386, 23375), (393, 23420), (437, 23594), (440, 23615), (449, 23654), (452, 23675), (454, 23690), (491, 23846), (494, 23864), (511, 23918), (527, 24002), (545, 24095), (593, 24341), (621, 24557), (634, 24641), (641, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 56
Candidate Starts for Brujita_21:
(Start: 56 @19089 has 2 MA's), (65, 19113), (105, 19224), (108, 19233), (116, 19260), (159, 19407), (225, 19674), (231, 19689), (233, 19719), (234, 19725), (239, 19743), (267, 19851), (286, 19902), (317, 20013), (318, 20016), (326, 20055), (335, 20088), (349, 20154), (367, 20214), (371, 20241), (372, 20247), (440, 20553), (452, 20613), (460, 20661), (461, 20664), (465, 20685), (466, 20688), (527, 20949), (550, 21072), (551, 21075), (565, 21165), (576, 21222), (581, 21243), (599, 21303), (628, 21504), (632, 21546),

Gene: Brushbloom_19 Start: 17281, Stop: 19818, Start Num: 46
Candidate Starts for Brushbloom_19:
(Start: 46 @17281 has 244 MA's), (58, 17302), (Start: 69 @17323 has 1 MA's), (81, 17359), (82, 17362), (113, 17431), (115, 17440), (116, 17443), (123, 17461), (136, 17494), (140, 17509), (155, 17557), (186, 17662), (188, 17668), (189, 17671), (205, 17713), (206, 17716), (226, 17818), (239, 17884), (250, 17929), (256, 17959), (257, 17965), (259, 17983), (267, 18007), (270, 18016), (284, 18049), (286, 18055), (301, 18106), (305, 18124), (308, 18136), (311, 18145), (315, 18160), (318, 18166), (342, 18274), (344, 18286), (345, 18292), (348, 18307), (349, 18310), (354, 18331), (363, 18361), (367, 18373), (372, 18406), (386, 18472), (393, 18517), (395, 18520), (404, 18547), (406, 18553), (416, 18607), (417, 18610), (425, 18637), (440, 18712), (443, 18724), (444, 18727), (457, 18793), (462, 18817), (468, 18847), (478, 18889), (482, 18907), (483, 18910), (491, 18946), (494, 18964), (500, 18985), (509, 19012), (524, 19081), (527, 19099), (529, 19108), (530, 19120), (537, 19156), (546, 19207), (550, 19225), (558, 19267), (565, 19321), (585, 19423), (597, 19501), (608, 19558), (612, 19582), (618, 19636), (621, 19684), (630, 19726), (633, 19750), (634, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 46
Candidate Starts for Bubbles123_19:
(Start: 46 @18112 has 244 MA's), (58, 18133), (Start: 69 @18154 has 1 MA's), (82, 18193), (113, 18262), (115, 18271), (116, 18274), (123, 18292), (136, 18325), (140, 18340), (155, 18388), (188, 18499), (189, 18502), (205, 18544), (206, 18547), (226, 18649), (239, 18715), (250, 18760), (256, 18790), (257, 18796), (259, 18814), (267, 18838), (270, 18847), (284, 18880), (286, 18886), (305, 18955), (308, 18967), (311, 18976), (315, 18991), (318, 18997), (342, 19105), (344, 19117), (345, 19123), (348, 19138), (349, 19141), (354, 19162), (363, 19192), (367, 19204), (372, 19237), (386, 19303), (393, 19348), (395, 19351), (404, 19378), (406, 19384), (416, 19438), (417, 19441), (425, 19468), (440, 19543), (443, 19555), (444, 19558), (457, 19624), (462, 19648), (468, 19678), (478, 19720), (482, 19738), (483, 19741), (491, 19777), (494, 19795), (500, 19816), (509, 19843), (524, 19912), (527, 19930), (529, 19939), (530, 19951), (537, 19987), (546, 20038), (552, 20062), (558, 20098), (565, 20152), (585, 20254), (597, 20332), (608, 20389), (612, 20413), (621, 20515), (630, 20557), (633, 20581), (634, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 88
Candidate Starts for Buck_25:
(Start: 88 @22240 has 134 MA's), (153, 22417), (158, 22438), (212, 22585), (240, 22726), (249, 22759), (256, 22792), (263, 22828), (293, 22921), (311, 22981), (317, 22999), (346, 23131), (357, 23176), (386, 23308), (393, 23353), (411, 23413), (437, 23527), (440, 23548), (449, 23587), (452, 23608), (454, 23623), (489, 23773), (491, 23779), (494, 23797), (511, 23851), (527, 23935), (545, 24028), (593, 24274), (621, 24490), (634, 24574), (641, 24607),

Gene: Budgie_28 Start: 21675, Stop: 24068, Start Num: 88
Candidate Starts for Budgie_28:
(Start: 88 @21675 has 134 MA's), (153, 21852), (158, 21873), (224, 22077), (225, 22083), (248, 22191), (249, 22194), (263, 22263), (305, 22392), (311, 22413), (335, 22512), (339, 22530), (386, 22740), (393, 22785), (440, 22980), (441, 22986), (444, 22995), (452, 23040), (454, 23055), (491, 23211), (494, 23229), (496, 23238), (527, 23367), (528, 23370), (564, 23580), (566, 23592), (602, 23775), (604, 23781), (621, 23922), (634, 24006), (639, 24030), (641, 24039),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 88
Candidate Starts for BugsBunny_24:
(Start: 88 @21873 has 134 MA's), (153, 22050), (158, 22071), (212, 22218), (240, 22359), (249, 22392), (256, 22425), (263, 22461), (293, 22554), (311, 22614), (317, 22632), (346, 22764), (357, 22809), (386, 22941), (393, 22986), (411, 23046), (437, 23160), (440, 23181), (449, 23220), (452, 23241), (454, 23256), (489, 23406), (491, 23412), (494, 23430), (511, 23484), (527, 23568), (545, 23661), (593, 23907), (621, 24123), (634, 24207), (641, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 46
Candidate Starts for Burwell21_18:
(Start: 46 @17404 has 244 MA's), (83, 17485), (113, 17554), (115, 17563), (116, 17566), (123, 17584), (140, 17632), (154, 17677), (188, 17791), (189, 17794), (192, 17806), (203, 17827), (205, 17836), (206, 17839), (215, 17887), (221, 17917), (233, 17983), (240, 18016), (250, 18052), (254, 18076), (269, 18136), (270, 18139), (277, 18157), (299, 18220), (301, 18223), (305, 18241), (311, 18262), (317, 18280), (323, 18307), (328, 18328), (335, 18361), (344, 18403), (345, 18409), (346, 18412), (349, 18427), (356, 18454), (357, 18457), (363, 18478), (367, 18490), (372, 18523), (390, 18616), (416, 18724), (422, 18748), (425, 18754), (430, 18772), (431, 18775), (435, 18799), (440, 18829), (446, 18853), (452, 18889), (453, 18895), (454, 18904), (461, 18931), (474, 18994), (478, 19018), (479, 19033), (489, 19075), (502, 19126), (525, 19222), (527, 19237), (529, 19246), (533, 19270), (545, 19333), (552, 19369), (606, 19675), (612, 19720), (621, 19822),

Gene: Butterscotch_30 Start: 24316, Stop: 26586, Start Num: 157
Candidate Starts for Butterscotch_30:
(Start: 157 @24316 has 22 MA's), (196, 24451), (199, 24460), (233, 24634), (234, 24640), (237, 24652), (273, 24805), (282, 24820), (288, 24835), (382, 25216), (383, 25222), (391, 25267), (412, 25354), (455, 25555), (456, 25561), (466, 25609), (472, 25639), (476, 25663), (515, 25852), (523, 25879), (530, 25927), (544, 25999), (552, 26038), (553, 26059), (556, 26074), (559, 26092), (561, 26122), (578, 26206), (616, 26407), (621, 26449), (647, 26575),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 46
Candidate Starts for BuzzLyseyear_20:
(Start: 46 @17791 has 244 MA's), (58, 17812), (Start: 69 @17833 has 1 MA's), (82, 17872), (113, 17941), (115, 17950), (116, 17953), (123, 17971), (140, 18019), (186, 18172), (189, 18181), (206, 18226), (225, 18325), (226, 18328), (239, 18394), (256, 18469), (257, 18475), (259, 18493), (267, 18517), (269, 18523), (270, 18526), (284, 18559), (286, 18565), (293, 18595), (301, 18616), (308, 18646), (311, 18655), (315, 18670), (317, 18673), (342, 18784), (343, 18787), (344, 18796), (345, 18802), (348, 18817), (349, 18820), (354, 18841), (363, 18871), (367, 18883), (372, 18916), (393, 19027), (395, 19030), (404, 19057), (406, 19063), (416, 19117), (417, 19120), (438, 19207), (440, 19222), (443, 19234), (444, 19237), (457, 19303), (462, 19327), (466, 19348), (468, 19357), (482, 19417), (483, 19420), (491, 19456), (494, 19474), (497, 19486), (500, 19495), (509, 19522), (522, 19579), (524, 19591), (527, 19609), (529, 19618), (530, 19630), (537, 19666), (542, 19696), (545, 19705), (546, 19717), (558, 19777), (565, 19831), (577, 19891), (585, 19933), (608, 20068), (612, 20092), (618, 20146), (621, 20194), (630, 20236), (633, 20260), (634, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 46
Candidate Starts for ByChance_18:
(Start: 46 @17408 has 244 MA's), (83, 17489), (113, 17558), (115, 17567), (116, 17570), (123, 17588), (140, 17636), (155, 17684), (188, 17795), (189, 17798), (203, 17831), (206, 17843), (221, 17921), (233, 17987), (240, 18020), (253, 18074), (256, 18086), (269, 18140), (270, 18143), (272, 18152), (287, 18185), (299, 18224), (301, 18227), (304, 18242), (305, 18245), (313, 18272), (314, 18278), (315, 18281), (317, 18284), (323, 18311), (327, 18329), (328, 18332), (344, 18407), (348, 18428), (349, 18431), (356, 18458), (363, 18482), (372, 18527), (373, 18530), (382, 18581), (395, 18644), (399, 18653), (405, 18677), (431, 18782), (432, 18785), (440, 18836), (441, 18842), (443, 18848), (444, 18851), (452, 18896), (454, 18911), (461, 18938), (466, 18962), (478, 19013), (482, 19031), (483, 19034), (484, 19046), (497, 19100), (511, 19142), (538, 19286), (548, 19340), (549, 19346), (550, 19349), (555, 19385), (557, 19388), (559, 19397), (560, 19424), (599, 19625), (621, 19796), (629, 19835), (636, 19874), (637, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 46
Candidate Starts for Byougenkin_18:
(Start: 46 @17418 has 244 MA's), (90, 17508), (113, 17568), (115, 17577), (116, 17580), (123, 17598), (136, 17631), (140, 17646), (155, 17694), (188, 17805), (189, 17808), (202, 17838), (206, 17853), (221, 17931), (226, 17955), (239, 18021), (250, 18066), (256, 18096), (257, 18102), (259, 18120), (267, 18144), (269, 18150), (270, 18153), (284, 18186), (286, 18192), (305, 18261), (311, 18282), (315, 18297), (317, 18300), (342, 18411), (344, 18423), (345, 18429), (348, 18444), (349, 18447), (354, 18468), (367, 18510), (372, 18543), (393, 18654), (395, 18657), (404, 18684), (406, 18690), (416, 18744), (417, 18747), (438, 18834), (440, 18849), (443, 18861), (444, 18864), (457, 18930), (462, 18954), (466, 18975), (468, 18984), (482, 19044), (483, 19047), (491, 19083), (494, 19101), (497, 19113), (500, 19122), (509, 19149), (524, 19218), (527, 19236), (529, 19245), (530, 19257), (537, 19293), (542, 19323), (546, 19344), (552, 19368), (558, 19404), (565, 19458), (577, 19518), (585, 19560), (597, 19638), (608, 19695), (612, 19719), (618, 19773), (621, 19821), (630, 19857), (633, 19881), (634, 19884),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 46

Candidate Starts for Cabrinians_18:
(Start: 46 @17398 has 244 MA's), (83, 17479), (113, 17548), (115, 17557), (116, 17560), (123, 17578), (140, 17626), (154, 17671), (188, 17785), (189, 17788), (192, 17800), (203, 17821), (205, 17830), (206, 17833), (215, 17881), (221, 17911), (233, 17977), (240, 18010), (250, 18046), (254, 18070), (269, 18130), (270, 18133), (277, 18151), (299, 18214), (301, 18217), (305, 18235), (311, 18256), (317, 18274), (323, 18301), (328, 18322), (335, 18355), (344, 18397), (345, 18403), (346, 18406), (349, 18421), (356, 18448), (357, 18451), (363, 18472), (367, 18484), (372, 18517), (390, 18610), (416, 18718), (422, 18742), (425, 18748), (430, 18766), (431, 18769), (435, 18793), (440, 18823), (446, 18847), (452, 18883), (453, 18889), (454, 18898), (461, 18925), (474, 18988), (478, 19012), (479, 19027), (489, 19069), (502, 19120), (525, 19216), (527, 19231), (529, 19240), (533, 19264), (545, 19327), (552, 19363), (606, 19669), (612, 19714), (621, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 88
Candidate Starts for Cactus_27:
(Start: 88 @21496 has 134 MA's), (153, 21673), (158, 21694), (212, 21841), (240, 21982), (249, 22015), (256, 22048), (263, 22084), (293, 22177), (311, 22237), (317, 22255), (335, 22336), (386, 22564), (393, 22609), (440, 22804), (441, 22810), (444, 22819), (452, 22864), (454, 22879), (491, 23035), (494, 23053), (496, 23062), (527, 23191), (528, 23194), (564, 23404), (566, 23416), (593, 23530), (621, 23746), (634, 23830), (639, 23854), (641, 23863),

Gene: Cambiare_23 Start: 21228, Stop: 23705, Start Num: 49
Candidate Starts for Cambiare_23:
(Start: 49 @21228 has 12 MA's), (95, 21336), (130, 21426), (146, 21474), (156, 21516), (211, 21693), (235, 21810), (259, 21909), (288, 21990), (296, 22032), (304, 22056), (312, 22083), (313, 22086), (317, 22098), (335, 22179), (346, 22230), (376, 22359), (378, 22371), (404, 22497), (416, 22557), (418, 22572), (419, 22578), (434, 22647), (462, 22785), (478, 22848), (484, 22887), (517, 23022), (519, 23031), (529, 23079), (531, 23094), (550, 23205), (598, 23499), (608, 23550), (619, 23643),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 46
Candidate Starts for CaptainTrips_19:
(Start: 46 @18092 has 244 MA's), (90, 18182), (113, 18242), (115, 18251), (116, 18254), (123, 18272), (136, 18305), (140, 18320), (155, 18368), (188, 18479), (189, 18482), (202, 18512), (205, 18524), (206, 18527), (221, 18605), (226, 18629), (239, 18695), (250, 18740), (256, 18770), (257, 18776), (259, 18794), (267, 18818), (270, 18827), (284, 18860), (286, 18866), (293, 18896), (305, 18935), (308, 18947), (311, 18956), (315, 18971), (317, 18974), (342, 19085), (343, 19088), (344, 19097), (345, 19103), (348, 19118), (349, 19121), (354, 19142), (363, 19172), (367, 19184), (372, 19217), (393, 19328), (395, 19331), (404, 19358), (406, 19364), (416, 19418), (417, 19421), (438, 19508), (440, 19523), (443, 19535), (444, 19538), (457, 19604), (462, 19628), (466, 19649), (468, 19658), (482, 19718), (483, 19721), (491, 19757), (494, 19775), (497, 19787), (500, 19796), (509, 19823), (524, 19892), (527, 19910), (529, 19919), (530, 19931), (537, 19967), (542, 19997), (546, 20018), (552, 20042), (558, 20078), (565, 20132), (577, 20192), (585, 20234), (597, 20312), (608, 20369), (612, 20393), (618, 20447), (621, 20495), (630, 20537), (633, 20561), (634, 20564),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 60
Candidate Starts for Catdawg_58:
(Start: 60 @36145 has 35 MA's), (74, 36178), (100, 36247), (101, 36250), (109, 36274), (116, 36298), (126, 36322), (136, 36355), (193, 36562), (197, 36574), (198, 36577), (231, 36724), (233, 36754), (239, 36778), (250, 36808), (251, 36811), (256, 36838), (259, 36862), (269, 36892), (290, 36949), (294, 36973), (305, 37009), (308, 37021), (315, 37045), (317, 37048), (326, 37090), (348, 37186), (349, 37189), (409, 37444), (440, 37588), (452, 37648), (465, 37720), (466, 37723), (487, 37819), (527, 37993), (530, 38014), (548, 38107), (551, 38119), (565, 38209), (581, 38284), (596, 38329), (626, 38530), (632, 38584), (637, 38599),

Gene: Causa_36 Start: 31862, Stop: 33766, Start Num: 244
Candidate Starts for Causa_36:
(Start: 244 @31862 has 2 MA's), (271, 31973), (281, 31991), (302, 32060), (345, 32231), (365, 32306), (383, 32408), (392, 32453), (408, 32513), (412, 32537), (420, 32567), (456, 32753), (472, 32831), (481, 32885), (494, 32948), (504, 32996), (513, 33032), (514, 33035), (516, 33047), (523, 33071), (553, 33248), (554, 33254), (561, 33299), (562, 33302), (571, 33353), (605, 33485), (621, 33629), (636, 33710), (647, 33755),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 16
Candidate Starts for Cborch11_30:
(Start: 16 @25681 has 10 MA's), (25, 25813), (26, 25825), (28, 25834), (42, 25903), (44, 25909), (72, 25969), (78, 25990), (96, 26038), (111, 26080), (118, 26104), (131, 26137), (142, 26173), (148, 26185), (173, 26278), (189, 26335), (201, 26374), (229, 26500), (240, 26569), (248, 26599), (257, 26641), (270, 26692), (301, 26782), (305, 26800), (326, 26881), (335, 26920), (340, 26941), (372, 27079), (379, 27118), (392, 27181), (417, 27283), (465, 27508), (543, 27871), (548, 27898), (594, 28141), (595, 28174), (600, 28198), (617, 28318), (628, 28396), (641, 28483), (646, 28498), (648, 28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 46
Candidate Starts for Che8_18:
(Start: 46 @17426 has 244 MA's), (58, 17447), (Start: 69 @17468 has 1 MA's), (82, 17507), (113, 17576), (115, 17585), (116, 17588), (123, 17606), (136, 17639), (140, 17654), (188, 17813), (189, 17816), (202, 17846), (206, 17861), (221, 17939), (226, 17963), (239, 18029), (256, 18104), (257, 18110), (259, 18128), (267, 18152), (269, 18158), (270, 18161), (284, 18194), (286, 18200), (293, 18230), (301, 18251), (308, 18281), (311, 18290), (336, 18398), (340, 18410), (342, 18419), (343, 18422), (344, 18431), (345, 18437), (348, 18452), (349, 18455), (354, 18476), (363, 18506), (367, 18518), (372, 18551), (404, 18692), (406, 18698), (416, 18752), (417, 18755), (425, 18782), (440, 18857), (443, 18869), (444, 18872), (448, 18893), (457, 18938), (462, 18962), (468, 18992), (478, 19034), (482, 19052), (483, 19055), (491, 19091), (494, 19109), (497, 19121), (500, 19130), (509, 19157), (522, 19214), (524, 19226), (527, 19244), (529, 19253), (530, 19265), (537, 19301), (542, 19331), (545, 19340), (546, 19352), (558, 19412), (565, 19466), (585, 19568), (597, 19646), (608, 19703), (612, 19727), (618, 19781), (621, 19829), (627, 19850), (633, 19895), (634, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 32
Candidate Starts for Che9d_24:
(29, 17092), (Start: 32 @17101 has 7 MA's), (Start: 46 @17161 has 244 MA's), (64, 17197), (107, 17296), (155, 17437), (174, 17476), (179, 17491), (189, 17527), (190, 17533), (191, 17536), (204, 17554), (209, 17578), (214, 17602), (215, 17605), (247, 17749), (250, 17758), (256, 17782), (259, 17806), (267, 17830), (269, 17836), (277, 17857), (278, 17860), (286, 17878), (293, 17908), (303, 17938), (308, 17959), (333, 18052), (335, 18067), (336, 18076), (342, 18097), (343, 18100), (350, 18142), (363, 18184), (364, 18187), (367, 18196), (371, 18223), (373, 18232), (380, 18271), (384, 18292), (386, 18295), (392, 18331), (399, 18352), (416, 18430), (417, 18433), (433, 18487), (443, 18547), (460, 18634), (462, 18640), (466, 18661), (475, 18697), (486, 18751), (489, 18760), (507, 18838), (512, 18856), (519, 18892), (520, 18895), (524, 18913), (527, 18931), (537, 18988), (539, 19000), (552, 19063), (558, 19096), (569, 19183), (580, 19231), (584, 19255), (590, 19282), (593, 19291), (596, 19330), (604, 19369), (608, 19393), (611, 19414), (621, 19510), (627, 19531), (635, 19591), (637, 19594), (641, 19621),

Gene: Cheesepuff_20 Start: 18248, Stop: 20785, Start Num: 46
Candidate Starts for Cheesepuff_20:
(Start: 46 @18248 has 244 MA's), (58, 18269), (Start: 69 @18290 has 1 MA's), (82, 18329), (113, 18398), (115, 18407), (116, 18410), (123, 18428), (136, 18461), (140, 18476), (186, 18629), (189, 18638), (206, 18683), (225, 18782), (226, 18785), (239, 18851), (250, 18896), (256, 18926), (257,

18932), (259, 18950), (267, 18974), (269, 18980), (270, 18983), (284, 19016), (286, 19022), (293, 19052), (305, 19091), (308, 19103), (311, 19112), (315, 19127), (317, 19130), (342, 19241), (343, 19244), (344, 19253), (345, 19259), (348, 19274), (349, 19277), (354, 19298), (363, 19328), (367, 19340), (372, 19373), (393, 19484), (395, 19487), (404, 19514), (406, 19520), (416, 19574), (417, 19577), (428, 19613), (438, 19664), (440, 19679), (443, 19691), (444, 19694), (457, 19760), (462, 19784), (466, 19805), (468, 19814), (482, 19874), (483, 19877), (491, 19913), (494, 19931), (497, 19943), (500, 19952), (509, 19979), (522, 20036), (524, 20048), (527, 20066), (529, 20075), (530, 20087), (537, 20123), (542, 20153), (545, 20162), (546, 20174), (552, 20198), (558, 20234), (565, 20288), (577, 20348), (585, 20390), (597, 20468), (608, 20525), (612, 20549), (618, 20603), (621, 20651), (630, 20693), (633, 20717), (634, 20720),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 46
Candidate Starts for Chevrolet_18:
(Start: 46 @17438 has 244 MA's), (58, 17459), (Start: 69 @17480 has 1 MA's), (82, 17519), (113, 17588), (115, 17597), (116, 17600), (123, 17618), (136, 17651), (140, 17666), (188, 17825), (189, 17828), (202, 17858), (206, 17873), (221, 17951), (225, 17972), (226, 17975), (239, 18041), (256, 18116), (257, 18122), (267, 18164), (269, 18170), (270, 18173), (284, 18206), (286, 18212), (293, 18242), (301, 18263), (308, 18293), (311, 18302), (336, 18410), (340, 18422), (342, 18431), (343, 18434), (344, 18443), (345, 18449), (348, 18464), (349, 18467), (354, 18488), (367, 18530), (372, 18563), (404, 18704), (406, 18710), (416, 18764), (417, 18767), (425, 18794), (438, 18854), (440, 18869), (443, 18881), (444, 18884), (457, 18950), (462, 18974), (466, 18995), (468, 19004), (482, 19064), (483, 19067), (491, 19103), (494, 19121), (497, 19133), (500, 19142), (509, 19169), (524, 19238), (527, 19256), (529, 19265), (530, 19277), (537, 19313), (542, 19343), (558, 19424), (565, 19478), (577, 19538), (585, 19580), (597, 19658), (608, 19715), (612, 19739), (618, 19793), (621, 19841), (630, 19883), (633, 19907), (634, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 46
Candidate Starts for ChickenDinner_19:
(Start: 46 @17271 has 244 MA's), (58, 17292), (Start: 69 @17313 has 1 MA's), (82, 17352), (113, 17421), (115, 17430), (116, 17433), (123, 17451), (136, 17484), (140, 17499), (155, 17547), (188, 17658), (189, 17661), (206, 17706), (221, 17784), (226, 17808), (239, 17874), (240, 17883), (256, 17949), (257, 17955), (259, 17973), (267, 17997), (269, 18003), (270, 18006), (284, 18039), (286, 18045), (293, 18075), (301, 18096), (311, 18135), (315, 18150), (318, 18156), (349, 18300), (363, 18351), (385, 18462), (395, 18513), (403, 18537), (425, 18630), (435, 18675), (437, 18684), (440, 18705), (443, 18717), (444, 18720), (452, 18765), (462, 18810), (465, 18828), (466, 18831), (478, 18882), (489, 18933), (491, 18939), (494, 18957), (497, 18969), (500, 18978), (511, 19011), (527, 19092), (539, 19161), (545, 19188), (549, 19215), (559, 19266), (565, 19314), (611, 19557), (621, 19662), (627, 19683), (636, 19737), (640, 19761),

Gene: Chill_31 Start: 24322, Stop: 26592, Start Num: 157
Candidate Starts for Chill_31:
(Start: 157 @24322 has 22 MA's), (196, 24457), (199, 24466), (233, 24640), (234, 24646), (237, 24658), (273, 24811), (282, 24826), (288, 24841), (382, 25222), (383, 25228), (391, 25273), (412, 25360), (455, 25561), (456, 25567), (466, 25615), (472, 25645), (476, 25669), (515, 25858), (523, 25885), (530, 25933), (544, 26005), (552, 26044), (553, 26065), (556, 26080), (559, 26098), (561, 26128), (578, 26212), (616, 26413), (621, 26455), (647, 26581),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 88
Candidate Starts for ChosenOne_25:
(Start: 88 @21491 has 134 MA's), (153, 21668), (158, 21689), (212, 21836), (249, 22010), (256, 22043), (263, 22079), (293, 22172), (311, 22232), (317, 22250), (346, 22382), (357, 22427), (386, 22559), (393, 22604), (411, 22664), (437, 22778), (440, 22799), (449, 22838), (452, 22859), (454, 22874), (489, 23024), (491, 23030), (494, 23048), (511, 23102), (527, 23186), (545, 23279), (593,

23525), (621, 23741), (634, 23825), (641, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 88
Candidate Starts for ChotaBhai_26:
(Start: 88 @21533 has 134 MA's), (153, 21710), (158, 21731), (212, 21878), (240, 22019), (249, 22052), (256, 22085), (263, 22121), (293, 22214), (311, 22274), (317, 22292), (346, 22424), (357, 22469), (386, 22601), (393, 22646), (437, 22820), (440, 22841), (449, 22880), (452, 22901), (454, 22916), (491, 23072), (494, 23090), (511, 23144), (527, 23228), (545, 23321), (593, 23567), (621, 23783), (634, 23867), (641, 23900),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 46
Candidate Starts for Chuckly_18:
(40, 17557), (Start: 46 @17569 has 244 MA's), (58, 17590), (Start: 69 @17611 has 1 MA's), (82, 17650), (113, 17719), (115, 17728), (116, 17731), (123, 17749), (136, 17782), (140, 17797), (155, 17845), (188, 17956), (189, 17959), (202, 17989), (205, 18001), (206, 18004), (221, 18082), (226, 18106), (239, 18172), (250, 18217), (256, 18247), (257, 18253), (259, 18271), (267, 18295), (270, 18304), (284, 18337), (286, 18343), (293, 18373), (305, 18412), (308, 18424), (311, 18433), (315, 18448), (318, 18454), (342, 18562), (343, 18565), (344, 18574), (345, 18580), (348, 18595), (349, 18598), (354, 18619), (363, 18649), (367, 18661), (372, 18694), (386, 18760), (393, 18805), (395, 18808), (404, 18835), (406, 18841), (416, 18895), (417, 18898), (438, 18985), (440, 19000), (443, 19012), (444, 19015), (457, 19081), (462, 19105), (466, 19126), (468, 19135), (482, 19195), (483, 19198), (491, 19234), (494, 19252), (500, 19273), (509, 19300), (524, 19369), (527, 19387), (529, 19396), (530, 19408), (537, 19444), (542, 19474), (546, 19495), (552, 19519), (558, 19555), (565, 19609), (577, 19669), (585, 19711), (608, 19846), (612, 19870), (618, 19924), (621, 19972), (630, 20014), (633, 20038), (634, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 88
Candidate Starts for Cjw1_26:
(Start: 88 @23044 has 134 MA's), (153, 23221), (158, 23242), (212, 23389), (249, 23563), (256, 23596), (263, 23632), (311, 23785), (317, 23803), (346, 23935), (357, 23980), (386, 24112), (393, 24157), (411, 24217), (437, 24331), (440, 24352), (449, 24391), (452, 24412), (454, 24427), (489, 24577), (491, 24583), (494, 24601), (511, 24655), (527, 24739), (545, 24832), (593, 25078), (621, 25294), (634, 25378), (641, 25411),

Gene: Clank_18 Start: 17552, Stop: 20029, Start Num: 46
Candidate Starts for Clank_18:
(Start: 46 @17552 has 244 MA's), (58, 17573), (Start: 69 @17594 has 1 MA's), (84, 17633), (113, 17702), (115, 17711), (116, 17714), (123, 17732), (136, 17765), (140, 17780), (174, 17867), (179, 17882), (189, 17918), (190, 17924), (206, 17957), (209, 17969), (247, 18140), (250, 18149), (256, 18173), (269, 18227), (284, 18263), (286, 18269), (293, 18299), (303, 18329), (308, 18350), (311, 18359), (315, 18374), (333, 18443), (349, 18524), (350, 18533), (357, 18554), (358, 18557), (367, 18587), (373, 18623), (382, 18674), (384, 18683), (386, 18686), (390, 18713), (392, 18722), (399, 18743), (416, 18821), (417, 18824), (435, 18896), (441, 18932), (443, 18938), (451, 18980), (452, 18986), (461, 19028), (462, 19031), (466, 19052), (467, 19058), (468, 19061), (475, 19091), (507, 19232), (511, 19241), (512, 19250), (518, 19283), (524, 19307), (525, 19310), (527, 19325), (530, 19346), (537, 19382), (538, 19388), (539, 19394), (543, 19415), (548, 19442), (569, 19577), (584, 19649), (586, 19655), (593, 19673), (608, 19772), (621, 19889), (635, 19970), (637, 19973), (641, 20000),

Gene: Cloudyecho_22 Start: 20645, Stop: 23107, Start Num: 49
Candidate Starts for Cloudyecho_22:
(Start: 49 @20645 has 12 MA's), (94, 20750), (95, 20753), (138, 20873), (151, 20906), (152, 20915), (160, 20948), (197, 21053), (235, 21236), (252, 21296), (289, 21419), (296, 21458), (312, 21509),

(335, 21605), (340, 21626), (350, 21680), (370, 21761), (372, 21770), (378, 21797), (402, 21917), (409, 21944), (419, 22004), (433, 22052), (434, 22067), (447, 22133), (478, 22268), (490, 22328), (494, 22352), (558, 22652), (564, 22703), (566, 22715), (583, 22811), (591, 22847), (607, 22940), (619, 23045),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 46
Candidate Starts for Coco12_20:
(41, 17783), (Start: 46 @17795 has 244 MA's), (58, 17816), (Start: 69 @17837 has 1 MA's), (84, 17876), (113, 17945), (115, 17954), (116, 17957), (123, 17975), (136, 18008), (140, 18023), (174, 18110), (179, 18125), (189, 18161), (190, 18167), (206, 18200), (209, 18212), (247, 18383), (250, 18392), (256, 18416), (269, 18470), (284, 18506), (286, 18512), (293, 18542), (303, 18572), (308, 18593), (311, 18602), (333, 18686), (345, 18749), (349, 18767), (350, 18776), (357, 18797), (358, 18800), (363, 18818), (367, 18830), (371, 18857), (373, 18866), (382, 18917), (384, 18926), (386, 18929), (390, 18956), (392, 18965), (399, 18986), (416, 19064), (417, 19067), (441, 19175), (443, 19181), (452, 19229), (461, 19271), (462, 19274), (466, 19295), (467, 19301), (468, 19304), (475, 19334), (507, 19475), (512, 19493), (518, 19526), (524, 19550), (525, 19553), (527, 19568), (530, 19589), (537, 19625), (538, 19631), (543, 19658), (548, 19685), (569, 19820), (580, 19868), (584, 19892), (586, 19898), (593, 19916), (608, 20015), (611, 20036), (613, 20054), (621, 20132), (627, 20153), (637, 20216), (639, 20234), (644, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 88
Candidate Starts for Command613_27:
(Start: 88 @22552 has 134 MA's), (153, 22729), (158, 22750), (212, 22897), (240, 23038), (249, 23071), (256, 23104), (263, 23140), (293, 23233), (311, 23293), (317, 23311), (335, 23392), (386, 23620), (393, 23665), (440, 23860), (441, 23866), (444, 23875), (452, 23920), (454, 23935), (491, 24091), (494, 24109), (496, 24118), (527, 24247), (528, 24250), (564, 24460), (566, 24472), (593, 24586), (621, 24802), (634, 24886), (639, 24910), (641, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 88
Candidate Starts for Contagion_25:
(Start: 88 @21791 has 134 MA's), (153, 21968), (158, 21989), (212, 22136), (240, 22277), (249, 22310), (256, 22343), (263, 22379), (293, 22472), (311, 22532), (317, 22550), (346, 22682), (357, 22727), (386, 22859), (393, 22904), (437, 23078), (440, 23099), (449, 23138), (452, 23159), (454, 23174), (491, 23330), (494, 23348), (511, 23402), (527, 23486), (545, 23579), (593, 23825), (621, 24041), (634, 24125), (641, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 88
Candidate Starts for Cookies_26:
(Start: 88 @22153 has 134 MA's), (153, 22330), (158, 22351), (212, 22498), (240, 22639), (249, 22672), (256, 22705), (263, 22741), (293, 22834), (311, 22894), (317, 22912), (346, 23044), (357, 23089), (386, 23221), (393, 23266), (411, 23326), (437, 23440), (440, 23461), (449, 23500), (452, 23521), (454, 23536), (489, 23686), (491, 23692), (494, 23710), (511, 23764), (527, 23848), (545, 23941), (593, 24187), (621, 24403), (634, 24487), (641, 24520),

Gene: Corium_18 Start: 17437, Stop: 19974, Start Num: 46
Candidate Starts for Corium_18:
(40, 17425), (Start: 46 @17437 has 244 MA's), (58, 17458), (Start: 69 @17479 has 1 MA's), (82, 17518), (113, 17587), (115, 17596), (116, 17599), (123, 17617), (136, 17650), (140, 17665), (155, 17713), (188, 17824), (189, 17827), (202, 17857), (205, 17869), (206, 17872), (221, 17950), (226, 17974), (239, 18040), (250, 18085), (256, 18115), (257, 18121), (259, 18139), (267, 18163), (270, 18172), (284, 18205), (286, 18211), (293, 18241), (305, 18280), (308, 18292), (311, 18301), (315, 18316), (317, 18319), (342, 18430), (343, 18433), (344, 18442), (345, 18448), (348, 18463), (349, 18466), (354, 18487), (363, 18517), (367, 18529), (372, 18562), (393, 18673), (395, 18676), (404,

18703), (406, 18709), (416, 18763), (417, 18766), (438, 18853), (440, 18868), (443, 18880), (444, 18883), (457, 18949), (462, 18973), (466, 18994), (468, 19003), (482, 19063), (483, 19066), (491, 19102), (494, 19120), (497, 19132), (500, 19141), (509, 19168), (524, 19237), (527, 19255), (529, 19264), (530, 19276), (537, 19312), (542, 19342), (546, 19363), (552, 19387), (558, 19423), (565, 19477), (577, 19537), (585, 19579), (597, 19657), (608, 19714), (612, 19738), (618, 19792), (621, 19840), (630, 19882), (633, 19906), (634, 19909),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 60
Candidate Starts for Corndog_61:
(Start: 60 @37139 has 35 MA's), (74, 37172), (100, 37241), (101, 37244), (109, 37268), (116, 37292), (126, 37316), (136, 37349), (193, 37556), (197, 37568), (198, 37571), (231, 37718), (233, 37748), (239, 37772), (250, 37802), (251, 37805), (256, 37832), (259, 37856), (269, 37886), (290, 37943), (305, 38003), (308, 38015), (315, 38039), (317, 38042), (326, 38084), (348, 38180), (349, 38183), (409, 38438), (440, 38582), (452, 38642), (465, 38714), (466, 38717), (487, 38813), (527, 38987), (530, 39008), (548, 39101), (551, 39113), (565, 39203), (581, 39278), (596, 39323), (626, 39524), (632, 39578), (637, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 48
Candidate Starts for Cornie_20:
(Start: 48 @18264 has 1 MA's), (51, 18270), (58, 18276), (Start: 88 @18339 has 134 MA's), (89, 18342), (101, 18369), (119, 18423), (123, 18432), (136, 18465), (149, 18498), (155, 18531), (174, 18570), (179, 18585), (189, 18621), (190, 18627), (191, 18630), (204, 18648), (206, 18660), (209, 18672), (214, 18696), (215, 18699), (235, 18804), (240, 18828), (247, 18843), (250, 18852), (256, 18876), (257, 18882), (259, 18900), (263, 18912), (265, 18918), (267, 18924), (269, 18930), (270, 18933), (272, 18942), (277, 18951), (284, 18966), (293, 19002), (305, 19041), (308, 19053), (311, 19062), (333, 19146), (349, 19227), (350, 19236), (358, 19260), (367, 19290), (373, 19326), (382, 19377), (384, 19386), (386, 19389), (390, 19416), (392, 19425), (399, 19446), (408, 19482), (416, 19524), (417, 19527), (433, 19581), (443, 19641), (460, 19728), (462, 19734), (466, 19755), (475, 19791), (486, 19845), (489, 19854), (507, 19932), (512, 19950), (519, 19986), (520, 19989), (524, 20007), (527, 20025), (537, 20082), (539, 20094), (552, 20157), (558, 20190), (569, 20277), (580, 20325), (584, 20349), (590, 20376), (593, 20385), (596, 20424), (604, 20463), (608, 20487), (611, 20508), (621, 20604), (627, 20625), (635, 20685), (637, 20688), (641, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 46
Candidate Starts for Cornucopia_19:
(Start: 46 @17435 has 244 MA's), (58, 17456), (Start: 69 @17477 has 1 MA's), (82, 17516), (113, 17585), (115, 17594), (116, 17597), (123, 17615), (140, 17663), (186, 17816), (189, 17825), (206, 17870), (225, 17969), (226, 17972), (239, 18038), (256, 18113), (257, 18119), (259, 18137), (267, 18161), (270, 18170), (284, 18203), (286, 18209), (293, 18239), (301, 18260), (305, 18278), (308, 18290), (311, 18299), (315, 18314), (317, 18317), (342, 18428), (343, 18431), (344, 18440), (345, 18446), (348, 18461), (349, 18464), (354, 18485), (363, 18515), (367, 18527), (372, 18560), (393, 18671), (395, 18674), (404, 18701), (406, 18707), (416, 18761), (417, 18764), (431, 18812), (438, 18851), (440, 18866), (443, 18878), (444, 18881), (448, 18902), (457, 18947), (462, 18971), (468, 19001), (478, 19043), (482, 19061), (483, 19064), (491, 19100), (494, 19118), (497, 19130), (500, 19139), (511, 19172), (524, 19235), (527, 19253), (529, 19262), (530, 19274), (542, 19340), (546, 19361), (552, 19385), (558, 19421), (565, 19475), (577, 19535), (585, 19577), (597, 19655), (608, 19712), (612, 19736), (618, 19790), (621, 19838), (630, 19880), (633, 19904), (634, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 47
Candidate Starts for Cosmo_43:
(Start: 47 @28347 has 6 MA's), (75, 28416), (119, 28539), (122, 28545), (123, 28548), (132, 28572), (139, 28593), (186, 28749), (187, 28755), (189, 28761), (198, 28791), (200, 28797), (206, 28818), (208, 28827), (219, 28887), (228, 28923), (234, 28965), (257, 29064), (264, 29097), (269, 29112),

(270, 29115), (286, 29154), (301, 29205), (305, 29223), (311, 29244), (313, 29250), (321, 29277), (326, 29304), (342, 29373), (347, 29397), (350, 29418), (357, 29439), (361, 29448), (367, 29469), (372, 29502), (373, 29505), (382, 29556), (386, 29568), (401, 29634), (407, 29652), (413, 29691), (440, 29808), (450, 29853), (461, 29910), (466, 29934), (468, 29943), (472, 29961), (482, 30006), (489, 30039), (495, 30075), (536, 30249), (537, 30267), (538, 30273), (549, 30330), (607, 30654), (610, 30672), (615, 30723), (623, 30786), (633, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 46
Candidate Starts for Courthouse_36:
(Start: 46 @27742 has 244 MA's), (123, 27937), (136, 27973), (140, 27988), (174, 28075), (179, 28090), (206, 28165), (209, 28177), (215, 28204), (235, 28309), (247, 28348), (250, 28357), (256, 28381), (257, 28387), (259, 28405), (265, 28423), (270, 28438), (272, 28447), (277, 28456), (284, 28471), (292, 28498), (293, 28507), (305, 28546), (308, 28558), (311, 28567), (333, 28651), (349, 28732), (357, 28762), (358, 28765), (367, 28795), (371, 28822), (373, 28831), (382, 28882), (384, 28891), (386, 28894), (392, 28930), (399, 28951), (408, 28987), (441, 29140), (452, 29194), (462, 29239), (465, 29257), (466, 29260), (475, 29299), (507, 29446), (511, 29455), (525, 29524), (527, 29539), (558, 29704), (569, 29791), (580, 29839), (593, 29890), (604, 29968), (635, 30190), (637, 30193), (641, 30220),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 88
Candidate Starts for CrystalP_26:
(Start: 88 @22284 has 134 MA's), (153, 22461), (158, 22482), (212, 22629), (240, 22770), (249, 22803), (256, 22836), (263, 22872), (293, 22965), (311, 23025), (317, 23043), (335, 23124), (386, 23352), (393, 23397), (440, 23592), (441, 23598), (444, 23607), (452, 23652), (454, 23667), (491, 23823), (494, 23841), (496, 23850), (527, 23979), (528, 23982), (564, 24192), (566, 24204), (593, 24318), (621, 24534), (634, 24618), (639, 24642), (641, 24651),

Gene: Czyszczon1_27 Start: 22029, Stop: 24425, Start Num: 88
Candidate Starts for Czyszczon1_27:
(Start: 88 @22029 has 134 MA's), (153, 22206), (158, 22227), (212, 22374), (249, 22548), (256, 22581), (263, 22617), (293, 22710), (311, 22770), (317, 22788), (346, 22920), (357, 22965), (386, 23097), (393, 23142), (411, 23202), (437, 23316), (440, 23337), (449, 23376), (452, 23397), (454, 23412), (489, 23562), (491, 23568), (494, 23586), (511, 23640), (527, 23724), (545, 23817), (593, 24063), (621, 24279), (634, 24363), (641, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 46
Candidate Starts for DLane_18:
(40, 17374), (Start: 46 @17386 has 244 MA's), (58, 17407), (Start: 69 @17428 has 1 MA's), (82, 17467), (113, 17536), (115, 17545), (116, 17548), (123, 17566), (136, 17599), (140, 17614), (155, 17662), (188, 17773), (189, 17776), (202, 17806), (204, 17809), (206, 17821), (221, 17899), (226, 17923), (239, 17989), (250, 18034), (256, 18064), (257, 18070), (259, 18088), (267, 18112), (270, 18121), (284, 18154), (286, 18160), (293, 18190), (308, 18241), (311, 18250), (315, 18265), (317, 18268), (342, 18379), (343, 18382), (344, 18391), (345, 18397), (348, 18412), (349, 18415), (354, 18436), (363, 18466), (367, 18478), (372, 18511), (393, 18622), (395, 18625), (404, 18652), (406, 18658), (416, 18712), (417, 18715), (440, 18817), (443, 18829), (444, 18832), (457, 18898), (462, 18922), (466, 18943), (468, 18952), (482, 19012), (483, 19015), (491, 19051), (494, 19069), (497, 19081), (500, 19090), (509, 19117), (524, 19186), (527, 19204), (529, 19213), (530, 19225), (537, 19261), (542, 19291), (546, 19312), (552, 19336), (558, 19372), (565, 19426), (577, 19486), (585, 19528), (597, 19606), (608, 19663), (612, 19687), (618, 19741), (621, 19789), (630, 19831), (633, 19855), (634, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 46
Candidate Starts for DRBy19_18:

(Start: 46 @17429 has 244 MA's), (58, 17450), (Start: 69 @17471 has 1 MA's), (82, 17510), (113, 17579), (115, 17588), (116, 17591), (123, 17609), (140, 17657), (186, 17810), (189, 17819), (206, 17864), (221, 17942), (226, 17966), (239, 18032), (250, 18077), (256, 18107), (257, 18113), (259, 18131), (267, 18155), (270, 18164), (284, 18197), (286, 18203), (293, 18233), (305, 18272), (311, 18293), (315, 18308), (317, 18311), (343, 18425), (344, 18434), (345, 18440), (349, 18458), (354, 18479), (363, 18509), (367, 18521), (372, 18554), (393, 18665), (395, 18668), (404, 18695), (406, 18701), (416, 18755), (417, 18758), (438, 18845), (440, 18860), (444, 18875), (462, 18965), (466, 18986), (468, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (497, 19124), (500, 19133), (509, 19160), (524, 19229), (527, 19247), (529, 19256), (530, 19268), (537, 19304), (542, 19334), (546, 19355), (552, 19379), (558, 19415), (565, 19469), (585, 19571), (597, 19649), (608, 19706), (612, 19730), (618, 19784), (621, 19832), (630, 19874), (636, 19907), (637, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 46
Candidate Starts for DaWorst_20:
(Start: 46 @17930 has 244 MA's), (58, 17951), (Start: 69 @17972 has 1 MA's), (82, 18011), (113, 18080), (115, 18089), (116, 18092), (123, 18110), (136, 18143), (140, 18158), (188, 18317), (189, 18320), (202, 18350), (206, 18365), (221, 18443), (225, 18464), (226, 18467), (239, 18533), (256, 18608), (257, 18614), (267, 18656), (269, 18662), (270, 18665), (284, 18698), (286, 18704), (293, 18734), (301, 18755), (308, 18785), (311, 18794), (336, 18902), (340, 18914), (342, 18923), (343, 18926), (344, 18935), (345, 18941), (348, 18956), (349, 18959), (354, 18980), (367, 19022), (372, 19055), (404, 19196), (406, 19202), (416, 19256), (417, 19259), (425, 19286), (438, 19346), (440, 19361), (443, 19373), (444, 19376), (457, 19442), (462, 19466), (466, 19487), (468, 19496), (482, 19556), (483, 19559), (491, 19595), (494, 19613), (497, 19625), (500, 19634), (509, 19661), (524, 19730), (527, 19748), (529, 19757), (530, 19769), (537, 19805), (542, 19835), (558, 19916), (565, 19970), (577, 20030), (585, 20072), (597, 20150), (608, 20207), (612, 20231), (618, 20285), (621, 20333), (630, 20375), (633, 20399), (634, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 46
Candidate Starts for DaddyRickover_18:
(40, 17556), (Start: 46 @17568 has 244 MA's), (58, 17589), (Start: 69 @17610 has 1 MA's), (82, 17649), (113, 17718), (115, 17727), (116, 17730), (123, 17748), (140, 17796), (155, 17844), (188, 17955), (189, 17958), (206, 18003), (221, 18081), (226, 18105), (239, 18171), (250, 18216), (256, 18246), (257, 18252), (259, 18270), (267, 18294), (270, 18303), (284, 18336), (286, 18342), (293, 18372), (305, 18411), (308, 18423), (311, 18432), (315, 18447), (317, 18450), (342, 18561), (343, 18564), (344, 18573), (345, 18579), (348, 18594), (349, 18597), (354, 18618), (363, 18648), (367, 18660), (372, 18693), (393, 18804), (395, 18807), (404, 18834), (406, 18840), (416, 18894), (417, 18897), (440, 18999), (443, 19011), (444, 19014), (457, 19080), (462, 19104), (466, 19125), (468, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (500, 19272), (509, 19299), (524, 19368), (527, 19386), (529, 19395), (530, 19407), (537, 19443), (546, 19494), (550, 19512), (558, 19554), (565, 19608), (585, 19710), (608, 19845), (612, 19869), (618, 19923), (627, 19992), (633, 20037), (634, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 46
Candidate Starts for Daenerys_18:
(40, 17388), (Start: 46 @17400 has 244 MA's), (58, 17421), (Start: 69 @17442 has 1 MA's), (82, 17481), (113, 17550), (115, 17559), (116, 17562), (123, 17580), (140, 17628), (155, 17676), (188, 17787), (189, 17790), (206, 17835), (221, 17913), (226, 17937), (239, 18003), (250, 18048), (256, 18078), (257, 18084), (259, 18102), (267, 18126), (270, 18135), (284, 18168), (286, 18174), (293, 18204), (305, 18243), (308, 18255), (311, 18264), (315, 18279), (317, 18282), (342, 18393), (343, 18396), (344, 18405), (345, 18411), (348, 18426), (349, 18429), (354, 18450), (363, 18480), (367, 18492), (372, 18525), (393, 18636), (395, 18639), (404, 18666), (406, 18672), (416, 18726), (417, 18729), (440, 18831), (443, 18843), (444, 18846), (457, 18912), (462, 18936), (466, 18957), (468, 18966), (482, 19026), (483, 19029), (491, 19065), (494, 19083), (500, 19104), (509, 19131), (524,

19200), (527, 19218), (529, 19227), (530, 19239), (537, 19275), (546, 19326), (550, 19344), (558, 19386), (565, 19440), (585, 19542), (608, 19677), (612, 19701), (618, 19755), (627, 19824), (633, 19869), (634, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 88
Candidate Starts for Daikon_24:
(Start: 88 @22021 has 134 MA's), (153, 22198), (158, 22219), (212, 22366), (240, 22507), (249, 22540), (256, 22573), (263, 22609), (293, 22702), (311, 22762), (317, 22780), (350, 22936), (357, 22957), (382, 23077), (386, 23089), (393, 23134), (440, 23329), (444, 23344), (452, 23389), (454, 23404), (491, 23560), (494, 23578), (496, 23587), (527, 23716), (528, 23719), (564, 23929), (566, 23941), (593, 24055), (621, 24271), (634, 24355), (639, 24379), (641, 24388),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 16
Candidate Starts for Damien_29:
(Start: 16 @25682 has 10 MA's), (25, 25814), (26, 25826), (28, 25835), (42, 25904), (44, 25910), (72, 25970), (78, 25991), (96, 26039), (111, 26081), (118, 26105), (131, 26138), (142, 26174), (148, 26186), (173, 26279), (189, 26336), (201, 26375), (229, 26501), (240, 26570), (248, 26600), (257, 26642), (270, 26693), (301, 26783), (305, 26801), (326, 26882), (335, 26921), (340, 26942), (372, 27080), (379, 27119), (392, 27182), (417, 27284), (465, 27509), (543, 27872), (548, 27899), (594, 28142), (595, 28175), (600, 28199), (617, 28319), (628, 28397), (641, 28484), (646, 28499), (648, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 46
Candidate Starts for Dante_18:
(40, 17404), (Start: 46 @17416 has 244 MA's), (58, 17437), (Start: 69 @17458 has 1 MA's), (82, 17497), (113, 17566), (115, 17575), (116, 17578), (123, 17596), (136, 17629), (140, 17644), (155, 17692), (186, 17797), (188, 17803), (189, 17806), (205, 17848), (206, 17851), (221, 17929), (226, 17953), (239, 18019), (250, 18064), (256, 18094), (257, 18100), (259, 18118), (267, 18142), (270, 18151), (284, 18184), (286, 18190), (293, 18220), (305, 18259), (308, 18271), (311, 18280), (315, 18295), (317, 18298), (342, 18409), (343, 18412), (344, 18421), (345, 18427), (348, 18442), (349, 18445), (354, 18466), (363, 18496), (372, 18541), (393, 18652), (395, 18655), (404, 18682), (406, 18688), (416, 18742), (417, 18745), (440, 18847), (443, 18859), (444, 18862), (457, 18928), (462, 18952), (466, 18973), (468, 18982), (482, 19042), (483, 19045), (491, 19081), (494, 19099), (497, 19111), (500, 19120), (509, 19147), (524, 19216), (527, 19234), (529, 19243), (530, 19255), (537, 19291), (542, 19321), (546, 19342), (552, 19366), (558, 19402), (565, 19456), (577, 19516), (585, 19558), (597, 19636), (608, 19693), (612, 19717), (618, 19771), (621, 19819), (630, 19861), (633, 19885), (634, 19888),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 46
Candidate Starts for DeadP_18:
(40, 17418), (Start: 46 @17430 has 244 MA's), (58, 17451), (Start: 69 @17472 has 1 MA's), (82, 17511), (113, 17580), (115, 17589), (116, 17592), (123, 17610), (136, 17643), (140, 17658), (155, 17706), (186, 17811), (188, 17817), (189, 17820), (205, 17862), (206, 17865), (221, 17943), (239, 18033), (250, 18078), (256, 18108), (257, 18114), (259, 18132), (267, 18156), (270, 18165), (284, 18198), (286, 18204), (293, 18234), (305, 18273), (308, 18285), (311, 18294), (315, 18309), (317, 18312), (342, 18423), (343, 18426), (344, 18435), (345, 18441), (348, 18456), (349, 18459), (354, 18480), (363, 18510), (367, 18522), (372, 18555), (393, 18666), (395, 18669), (404, 18696), (406, 18702), (416, 18756), (417, 18759), (438, 18846), (440, 18861), (443, 18873), (444, 18876), (457, 18942), (462, 18966), (466, 18987), (468, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (497, 19125), (500, 19134), (509, 19161), (524, 19230), (527, 19248), (529, 19257), (530, 19269), (537, 19305), (542, 19335), (546, 19356), (552, 19380), (558, 19416), (565, 19470), (577, 19530), (585, 19572), (608, 19707), (612, 19731), (618, 19785), (621, 19833), (630, 19875), (633, 19899), (634, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 46
Candidate Starts for Deb65_18:
(Start: 46 @17397 has 244 MA's), (58, 17418), (Start: 69 @17439 has 1 MA's), (82, 17478), (113, 17547), (115, 17556), (116, 17559), (123, 17577), (140, 17625), (155, 17673), (188, 17784), (189, 17787), (206, 17832), (221, 17910), (226, 17934), (239, 18000), (256, 18075), (257, 18081), (259, 18099), (267, 18123), (270, 18132), (284, 18165), (286, 18171), (293, 18201), (301, 18222), (308, 18252), (311, 18261), (336, 18369), (340, 18381), (342, 18390), (343, 18393), (345, 18408), (348, 18423), (349, 18426), (354, 18447), (367, 18489), (372, 18522), (393, 18633), (395, 18636), (404, 18663), (406, 18669), (416, 18723), (417, 18726), (425, 18753), (440, 18828), (443, 18840), (444, 18843), (457, 18909), (461, 18930), (462, 18933), (466, 18954), (468, 18963), (478, 19005), (482, 19023), (483, 19026), (489, 19056), (494, 19080), (497, 19092), (500, 19101), (524, 19197), (527, 19215), (529, 19224), (530, 19236), (537, 19272), (542, 19302), (545, 19311), (546, 19323), (558, 19383), (565, 19437), (577, 19497), (585, 19539), (608, 19674), (612, 19698), (618, 19752), (621, 19800), (630, 19842), (633, 19866), (634, 19869),

Gene: Delton_30 Start: 24328, Stop: 26598, Start Num: 157
Candidate Starts for Delton_30:
(Start: 157 @24328 has 22 MA's), (196, 24463), (199, 24472), (233, 24646), (234, 24652), (237, 24664), (273, 24817), (282, 24832), (288, 24847), (382, 25228), (383, 25234), (391, 25279), (412, 25366), (455, 25567), (456, 25573), (466, 25621), (472, 25651), (476, 25675), (515, 25864), (523, 25891), (530, 25939), (544, 26011), (552, 26050), (553, 26071), (556, 26086), (559, 26104), (561, 26134), (578, 26218), (616, 26419), (621, 26461), (647, 26587),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 32
Candidate Starts for Demsculpinboyz_24:
(29, 17077), (Start: 32 @17086 has 7 MA's), (Start: 46 @17146 has 244 MA's), (62, 17179), (64, 17182), (95, 17251), (107, 17281), (174, 17461), (179, 17476), (189, 17512), (190, 17518), (204, 17539), (209, 17563), (214, 17587), (247, 17734), (250, 17743), (256, 17767), (259, 17791), (267, 17815), (269, 17821), (277, 17842), (286, 17863), (293, 17893), (303, 17923), (308, 17944), (333, 18037), (335, 18052), (336, 18061), (339, 18070), (342, 18082), (343, 18085), (363, 18169), (364, 18172), (367, 18181), (371, 18208), (373, 18217), (380, 18256), (384, 18277), (386, 18280), (392, 18316), (399, 18337), (416, 18415), (417, 18418), (443, 18532), (460, 18619), (462, 18625), (466, 18646), (475, 18682), (486, 18736), (489, 18745), (507, 18823), (512, 18841), (519, 18877), (520, 18880), (524, 18898), (527, 18916), (537, 18973), (539, 18985), (552, 19048), (558, 19081), (569, 19168), (580, 19216), (584, 19240), (593, 19276), (596, 19315), (604, 19354), (608, 19378), (611, 19399), (621, 19495), (627, 19516), (635, 19576), (637, 19579), (641, 19606),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 46
Candidate Starts for DillTech15_18:
(Start: 46 @17434 has 244 MA's), (58, 17455), (Start: 69 @17476 has 1 MA's), (82, 17515), (113, 17584), (115, 17593), (116, 17596), (123, 17614), (136, 17647), (140, 17662), (186, 17815), (189, 17824), (206, 17869), (225, 17968), (226, 17971), (239, 18037), (250, 18082), (256, 18112), (257, 18118), (259, 18136), (267, 18160), (269, 18166), (270, 18169), (284, 18202), (286, 18208), (293, 18238), (305, 18277), (308, 18289), (311, 18298), (315, 18313), (317, 18316), (342, 18427), (343, 18430), (344, 18439), (345, 18445), (348, 18460), (349, 18463), (354, 18484), (363, 18514), (367, 18526), (372, 18559), (393, 18670), (395, 18673), (404, 18700), (406, 18706), (416, 18760), (417, 18763), (438, 18850), (440, 18865), (443, 18877), (444, 18880), (457, 18946), (462, 18970), (466, 18991), (468, 19000), (482, 19060), (483, 19063), (491, 19099), (494, 19117), (497, 19129), (500, 19138), (509, 19165), (524, 19234), (527, 19252), (529, 19261), (530, 19273), (537, 19309), (542, 19339), (545, 19348), (546, 19360), (552, 19384), (558, 19420), (565, 19474), (577, 19534), (585, 19576), (608, 19711), (612, 19735), (618, 19789), (621, 19837), (630, 19879), (633, 19903), (634, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 46
Candidate Starts for DirtMcgirt_19:
(40, 17209), (Start: 46 @17221 has 244 MA's), (58, 17242), (Start: 69 @17263 has 1 MA's), (82, 17302), (113, 17371), (115, 17380), (116, 17383), (123, 17401), (136, 17434), (140, 17449), (155, 17497), (186, 17602), (189, 17611), (205, 17653), (206, 17656), (221, 17734), (226, 17758), (239, 17824), (250, 17869), (256, 17899), (257, 17905), (259, 17923), (267, 17947), (270, 17956), (284, 17989), (286, 17995), (293, 18025), (305, 18064), (308, 18076), (311, 18085), (315, 18100), (317, 18103), (342, 18214), (344, 18226), (345, 18232), (348, 18247), (349, 18250), (354, 18271), (363, 18301), (367, 18313), (372, 18346), (393, 18457), (395, 18460), (404, 18487), (406, 18493), (416, 18547), (417, 18550), (425, 18577), (440, 18652), (443, 18664), (444, 18667), (457, 18733), (462, 18757), (468, 18787), (478, 18829), (482, 18847), (483, 18850), (491, 18886), (494, 18904), (500, 18925), (509, 18952), (524, 19021), (527, 19039), (529, 19048), (530, 19060), (537, 19096), (542, 19126), (545, 19135), (546, 19147), (558, 19207), (565, 19261), (577, 19321), (585, 19363), (597, 19441), (608, 19498), (612, 19522), (618, 19576), (621, 19624), (630, 19666), (633, 19690), (634, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 46
Candidate Starts for DmpstrDiver_37:
(35, 30326), (Start: 46 @30383 has 244 MA's), (123, 30578), (136, 30614), (140, 30629), (155, 30677), (179, 30731), (189, 30767), (190, 30773), (191, 30776), (204, 30794), (206, 30806), (209, 30818), (215, 30845), (235, 30950), (247, 30989), (250, 30998), (256, 31022), (257, 31028), (259, 31046), (265, 31064), (270, 31079), (272, 31088), (277, 31097), (284, 31112), (292, 31139), (293, 31148), (305, 31187), (308, 31199), (311, 31208), (333, 31292), (349, 31373), (357, 31403), (358, 31406), (367, 31436), (371, 31463), (373, 31472), (382, 31523), (384, 31532), (386, 31535), (392, 31571), (399, 31592), (408, 31628), (441, 31781), (452, 31835), (462, 31880), (465, 31898), (466, 31901), (475, 31940), (507, 32087), (511, 32096), (525, 32165), (527, 32180), (558, 32345), (569, 32432), (580, 32480), (593, 32531), (604, 32609), (635, 32831), (637, 32834), (641, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 46
Candidate Starts for DoRead_18:
(Start: 46 @17366 has 244 MA's), (58, 17387), (90, 17456), (113, 17516), (115, 17525), (116, 17528), (123, 17546), (140, 17594), (155, 17642), (188, 17753), (189, 17756), (195, 17777), (203, 17789), (206, 17801), (221, 17879), (233, 17945), (240, 17978), (253, 18032), (256, 18044), (267, 18092), (269, 18098), (270, 18101), (272, 18110), (287, 18143), (299, 18182), (301, 18185), (304, 18200), (313, 18230), (314, 18236), (315, 18239), (317, 18242), (323, 18269), (327, 18287), (328, 18290), (339, 18341), (340, 18344), (344, 18365), (345, 18371), (346, 18374), (348, 18386), (349, 18389), (356, 18416), (363, 18440), (367, 18452), (382, 18539), (395, 18602), (399, 18611), (405, 18635), (431, 18740), (432, 18743), (440, 18794), (441, 18800), (443, 18806), (444, 18809), (452, 18854), (454, 18869), (461, 18896), (466, 18920), (468, 18929), (482, 18989), (483, 18992), (484, 19004), (494, 19046), (497, 19058), (511, 19100), (538, 19244), (550, 19307), (560, 19382), (599, 19583), (629, 19793), (636, 19832), (637, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 46
Candidate Starts for DocMcStuffins_19:
(Start: 46 @17271 has 244 MA's), (58, 17292), (Start: 69 @17313 has 1 MA's), (82, 17352), (113, 17421), (115, 17430), (116, 17433), (123, 17451), (136, 17484), (140, 17499), (155, 17547), (188, 17658), (189, 17661), (206, 17706), (221, 17784), (226, 17808), (239, 17874), (240, 17883), (256, 17949), (257, 17955), (259, 17973), (267, 17997), (269, 18003), (270, 18006), (284, 18039), (286, 18045), (293, 18075), (301, 18096), (311, 18135), (315, 18150), (318, 18156), (349, 18300), (363, 18351), (385, 18462), (395, 18513), (403, 18537), (425, 18630), (435, 18675), (437, 18684), (440, 18705), (443, 18717), (444, 18720), (452, 18765), (462, 18810), (465, 18828), (466, 18831), (478, 18882), (489, 18933), (491, 18939), (494, 18957), (497, 18969), (500, 18978), (511, 19011), (527,

19092), (539, 19161), (545, 19188), (549, 19215), (559, 19266), (565, 19314), (611, 19557), (621, 19662), (627, 19683), (636, 19737), (640, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 88
Candidate Starts for DoctorDiddles_26:
(Start: 88 @21446 has 134 MA's), (153, 21623), (158, 21644), (212, 21791), (249, 21965), (256, 21998), (263, 22034), (293, 22127), (311, 22187), (317, 22205), (346, 22337), (357, 22382), (386, 22514), (393, 22559), (411, 22619), (437, 22733), (440, 22754), (449, 22793), (452, 22814), (454, 22829), (489, 22979), (491, 22985), (494, 23003), (511, 23057), (527, 23141), (545, 23234), (593, 23480), (621, 23696), (634, 23780), (641, 23813),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 46
Candidate Starts for Donkeykong_18:
(40, 17562), (Start: 46 @17574 has 244 MA's), (58, 17595), (Start: 69 @17616 has 1 MA's), (82, 17655), (113, 17724), (115, 17733), (116, 17736), (123, 17754), (136, 17787), (140, 17802), (155, 17850), (188, 17961), (189, 17964), (202, 17994), (205, 18006), (206, 18009), (221, 18087), (226, 18111), (239, 18177), (250, 18222), (256, 18252), (257, 18258), (259, 18276), (267, 18300), (270, 18309), (284, 18342), (286, 18348), (293, 18378), (305, 18417), (308, 18429), (311, 18438), (315, 18453), (317, 18456), (342, 18567), (343, 18570), (344, 18579), (345, 18585), (348, 18600), (349, 18603), (354, 18624), (363, 18654), (367, 18666), (372, 18699), (386, 18765), (393, 18810), (395, 18813), (404, 18840), (406, 18846), (416, 18900), (417, 18903), (440, 19005), (443, 19017), (444, 19020), (457, 19086), (462, 19110), (466, 19131), (468, 19140), (482, 19200), (483, 19203), (491, 19239), (494, 19257), (497, 19269), (500, 19278), (509, 19305), (524, 19374), (527, 19392), (529, 19401), (530, 19413), (537, 19449), (542, 19479), (546, 19500), (552, 19524), (558, 19560), (565, 19614), (577, 19674), (585, 19716), (597, 19794), (608, 19851), (612, 19875), (618, 19929), (621, 19977), (630, 20019), (633, 20043), (634, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 46
Candidate Starts for Doomphist_18:
(Start: 46 @17534 has 244 MA's), (58, 17555), (Start: 69 @17576 has 1 MA's), (82, 17615), (113, 17684), (115, 17693), (116, 17696), (123, 17714), (140, 17762), (188, 17921), (189, 17924), (206, 17969), (221, 18047), (226, 18071), (239, 18137), (256, 18212), (257, 18218), (259, 18236), (267, 18260), (269, 18266), (270, 18269), (284, 18302), (286, 18308), (293, 18338), (301, 18359), (308, 18389), (311, 18398), (336, 18506), (340, 18518), (342, 18527), (343, 18530), (345, 18545), (348, 18560), (349, 18563), (354, 18584), (367, 18626), (372, 18659), (393, 18770), (395, 18773), (404, 18800), (406, 18806), (416, 18860), (417, 18863), (425, 18890), (440, 18965), (443, 18977), (444, 18980), (457, 19046), (461, 19067), (462, 19070), (466, 19091), (468, 19100), (482, 19160), (483, 19163), (491, 19199), (494, 19217), (497, 19229), (500, 19238), (509, 19265), (522, 19322), (524, 19334), (527, 19352), (529, 19361), (530, 19373), (537, 19409), (542, 19439), (545, 19448), (546, 19460), (558, 19520), (565, 19574), (577, 19634), (585, 19676), (608, 19811), (612, 19835), (618, 19889), (621, 19937), (630, 19979), (633, 20003), (634, 20006),

Gene: Doomslug_20 Start: 17255, Stop: 19792, Start Num: 46
Candidate Starts for Doomslug_20:
(40, 17243), (Start: 46 @17255 has 244 MA's), (58, 17276), (Start: 69 @17297 has 1 MA's), (82, 17336), (113, 17405), (115, 17414), (116, 17417), (123, 17435), (136, 17468), (140, 17483), (155, 17531), (188, 17642), (189, 17645), (202, 17675), (205, 17687), (206, 17690), (221, 17768), (226, 17792), (239, 17858), (250, 17903), (256, 17933), (257, 17939), (259, 17957), (267, 17981), (270, 17990), (284, 18023), (286, 18029), (293, 18059), (305, 18098), (308, 18110), (311, 18119), (315, 18134), (317, 18137), (342, 18248), (343, 18251), (344, 18260), (345, 18266), (348, 18281), (349, 18284), (354, 18305), (363, 18335), (367, 18347), (372, 18380), (393, 18491), (395, 18494), (404, 18521), (406, 18527), (416, 18581), (417, 18584), (438, 18671), (440, 18686), (443, 18698), (444, 18701), (457, 18767), (462, 18791), (466, 18812), (468, 18821), (482, 18881), (483, 18884), (491,

18920), (494, 18938), (497, 18950), (500, 18959), (509, 18986), (524, 19055), (527, 19073), (529, 19082), (530, 19094), (537, 19130), (542, 19160), (546, 19181), (552, 19205), (558, 19241), (565, 19295), (577, 19355), (585, 19397), (597, 19475), (608, 19532), (612, 19556), (618, 19610), (621, 19658), (630, 19700), (633, 19724), (634, 19727),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 46
Candidate Starts for Dorothy_18:
(40, 17346), (Start: 46 @17358 has 244 MA's), (58, 17379), (Start: 69 @17400 has 1 MA's), (82, 17439), (113, 17508), (115, 17517), (116, 17520), (123, 17538), (140, 17586), (155, 17634), (188, 17745), (189, 17748), (206, 17793), (221, 17871), (226, 17895), (239, 17961), (250, 18006), (256, 18036), (257, 18042), (259, 18060), (267, 18084), (270, 18093), (284, 18126), (286, 18132), (293, 18162), (305, 18201), (308, 18213), (311, 18222), (315, 18237), (317, 18240), (342, 18351), (343, 18354), (344, 18363), (345, 18369), (348, 18384), (349, 18387), (354, 18408), (363, 18438), (367, 18450), (372, 18483), (393, 18594), (395, 18597), (404, 18624), (406, 18630), (416, 18684), (417, 18687), (440, 18789), (443, 18801), (444, 18804), (457, 18870), (462, 18894), (466, 18915), (468, 18924), (482, 18984), (483, 18987), (491, 19023), (494, 19041), (500, 19062), (509, 19089), (524, 19158), (527, 19176), (529, 19185), (530, 19197), (537, 19233), (546, 19284), (550, 19302), (558, 19344), (565, 19398), (585, 19500), (608, 19635), (612, 19659), (618, 19713), (627, 19782), (633, 19827), (634, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 46
Candidate Starts for DosHalletts_19:
(Start: 46 @17327 has 244 MA's), (90, 17417), (113, 17477), (115, 17486), (116, 17489), (123, 17507), (140, 17555), (154, 17600), (188, 17714), (189, 17717), (192, 17729), (203, 17750), (205, 17759), (206, 17762), (221, 17840), (233, 17906), (240, 17939), (250, 17975), (254, 17999), (269, 18059), (270, 18062), (277, 18080), (299, 18143), (301, 18146), (305, 18164), (311, 18185), (317, 18203), (323, 18230), (328, 18251), (335, 18284), (344, 18326), (345, 18332), (346, 18335), (349, 18350), (356, 18377), (357, 18380), (363, 18401), (367, 18413), (372, 18446), (390, 18539), (416, 18647), (422, 18671), (425, 18677), (430, 18695), (431, 18698), (435, 18722), (440, 18752), (446, 18776), (452, 18812), (453, 18818), (454, 18827), (461, 18854), (474, 18917), (478, 18941), (479, 18956), (489, 18998), (502, 19049), (525, 19145), (527, 19160), (529, 19169), (533, 19193), (545, 19256), (552, 19292), (606, 19598), (612, 19643), (621, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 46
Candidate Starts for DotProduct_18:
(40, 17396), (Start: 46 @17408 has 244 MA's), (58, 17429), (Start: 69 @17450 has 1 MA's), (82, 17489), (113, 17558), (115, 17567), (116, 17570), (123, 17588), (136, 17621), (140, 17636), (155, 17678), (188, 17789), (189, 17792), (204, 17825), (205, 17834), (206, 17837), (221, 17915), (239, 18005), (250, 18050), (256, 18080), (257, 18086), (259, 18104), (267, 18128), (270, 18137), (284, 18170), (286, 18176), (293, 18206), (308, 18257), (311, 18266), (315, 18281), (317, 18284), (342, 18395), (343, 18398), (344, 18407), (345, 18413), (348, 18428), (349, 18431), (354, 18452), (363, 18482), (367, 18494), (372, 18527), (393, 18638), (395, 18641), (406, 18674), (416, 18728), (417, 18731), (440, 18833), (443, 18845), (444, 18848), (457, 18914), (462, 18938), (466, 18959), (468, 18968), (482, 19028), (483, 19031), (491, 19067), (494, 19085), (497, 19097), (500, 19106), (509, 19133), (524, 19202), (527, 19220), (529, 19229), (530, 19241), (537, 19277), (542, 19307), (546, 19328), (552, 19352), (558, 19388), (565, 19442), (577, 19502), (585, 19544), (597, 19622), (608, 19679), (612, 19703), (618, 19757), (621, 19805), (630, 19847), (633, 19871), (634, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 46
Candidate Starts for Doug_19:
(40, 17938), (Start: 46 @17950 has 244 MA's), (58, 17971), (Start: 69 @17992 has 1 MA's), (82, 18031), (113, 18100), (115, 18109), (116, 18112), (123, 18130), (136, 18163), (140, 18178), (155, 18226), (186, 18331), (188, 18337), (189, 18340), (205, 18382), (206, 18385), (221, 18463), (239,

18553), (250, 18598), (256, 18628), (257, 18634), (259, 18652), (267, 18676), (270, 18685), (284, 18718), (286, 18724), (293, 18754), (305, 18793), (308, 18805), (311, 18814), (315, 18829), (317, 18832), (342, 18943), (343, 18946), (344, 18955), (345, 18961), (348, 18976), (349, 18979), (354, 19000), (363, 19030), (367, 19042), (372, 19075), (386, 19141), (393, 19186), (395, 19189), (404, 19216), (406, 19222), (416, 19276), (417, 19279), (438, 19366), (440, 19381), (443, 19393), (444, 19396), (457, 19462), (462, 19486), (466, 19507), (468, 19516), (482, 19576), (483, 19579), (491, 19615), (494, 19633), (497, 19645), (500, 19654), (509, 19681), (524, 19750), (527, 19768), (529, 19777), (530, 19789), (537, 19825), (542, 19855), (546, 19876), (552, 19900), (558, 19936), (565, 19990), (577, 20050), (585, 20092), (597, 20170), (608, 20227), (612, 20251), (618, 20305), (621, 20353), (633, 20419), (634, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 88
Candidate Starts for DrDrey_27:
(Start: 88 @22776 has 134 MA's), (153, 22953), (158, 22974), (212, 23121), (249, 23295), (256, 23328), (263, 23364), (293, 23457), (311, 23517), (317, 23535), (346, 23667), (357, 23712), (386, 23844), (393, 23889), (411, 23949), (437, 24063), (440, 24084), (449, 24123), (452, 24144), (454, 24159), (489, 24309), (491, 24315), (494, 24333), (511, 24387), (527, 24471), (545, 24564), (593, 24810), (621, 25026), (634, 25110), (641, 25143),

Gene: DrLupo_38 Start: 27172, Stop: 30258, Start Num: 2
Candidate Starts for DrLupo_38:
(1, 27145), (Start: 2 @27172 has 2 MA's), (3, 27175), (6, 27325), (7, 27328), (10, 27403), (12, 27412), (13, 27415), (15, 27484), (18, 27520), (23, 27595), (38, 27682), (45, 27718), (Start: 50 @27727 has 3 MA's), (59, 27748), (87, 27817), (94, 27841), (109, 27883), (110, 27886), (120, 27916), (133, 27958), (150, 28009), (169, 28090), (173, 28102), (188, 28162), (195, 28183), (206, 28222), (222, 28303), (230, 28336), (258, 28468), (269, 28507), (276, 28531), (279, 28546), (308, 28648), (312, 28660), (315, 28672), (317, 28675), (357, 28852), (367, 28885), (370, 28909), (381, 28966), (419, 29152), (434, 29218), (444, 29266), (453, 29317), (458, 29341), (459, 29347), (478, 29419), (482, 29443), (484, 29458), (500, 29527), (591, 29998), (598, 30052), (619, 30196),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 46
Candidate Starts for Drago_19:
(40, 17207), (Start: 46 @17219 has 244 MA's), (58, 17240), (Start: 69 @17261 has 1 MA's), (82, 17300), (113, 17369), (115, 17378), (116, 17381), (123, 17399), (136, 17432), (140, 17447), (155, 17495), (186, 17600), (189, 17609), (205, 17651), (206, 17654), (221, 17732), (226, 17756), (239, 17822), (250, 17867), (256, 17897), (257, 17903), (259, 17921), (267, 17945), (270, 17954), (284, 17987), (286, 17993), (293, 18023), (305, 18062), (308, 18074), (311, 18083), (315, 18098), (317, 18101), (342, 18212), (344, 18224), (345, 18230), (348, 18245), (349, 18248), (354, 18269), (363, 18299), (367, 18311), (372, 18344), (386, 18410), (393, 18455), (395, 18458), (404, 18485), (406, 18491), (416, 18545), (417, 18548), (425, 18575), (440, 18650), (443, 18662), (444, 18665), (457, 18731), (462, 18755), (468, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (500, 18923), (509, 18950), (524, 19019), (527, 19037), (529, 19046), (530, 19058), (537, 19094), (542, 19124), (545, 19133), (546, 19145), (558, 19205), (565, 19259), (577, 19319), (585, 19361), (597, 19439), (608, 19496), (612, 19520), (618, 19574), (621, 19622), (630, 19664), (633, 19688), (634, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 46
Candidate Starts for Duke13_36:
(33, 29724), (Start: 46 @29781 has 244 MA's), (123, 29976), (136, 30012), (140, 30027), (155, 30075), (188, 30186), (189, 30189), (206, 30234), (221, 30312), (226, 30336), (239, 30402), (250, 30447), (256, 30477), (257, 30483), (259, 30501), (267, 30525), (270, 30534), (284, 30567), (286, 30573), (293, 30603), (305, 30642), (308, 30654), (311, 30663), (315, 30678), (317, 30681), (342, 30792), (343, 30795), (344, 30804), (345, 30810), (348, 30825), (349, 30828), (354, 30849), (363, 30879),

(367, 30891), (372, 30924), (393, 31035), (395, 31038), (404, 31065), (406, 31071), (416, 31125), (417, 31128), (440, 31230), (443, 31242), (444, 31245), (457, 31311), (462, 31335), (466, 31356), (468, 31365), (482, 31425), (483, 31428), (491, 31464), (494, 31482), (500, 31503), (509, 31530), (524, 31599), (527, 31617), (529, 31626), (530, 31638), (537, 31674), (546, 31725), (550, 31743), (558, 31785), (565, 31839), (585, 31941), (608, 32076), (612, 32100), (618, 32154), (627, 32223), (633, 32268), (634, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 88
Candidate Starts for Dumbo_26:
(Start: 88 @21751 has 134 MA's), (153, 21928), (158, 21949), (212, 22096), (249, 22270), (256, 22303), (263, 22339), (293, 22432), (311, 22492), (317, 22510), (346, 22642), (357, 22687), (386, 22819), (393, 22864), (411, 22924), (437, 23038), (440, 23059), (449, 23098), (452, 23119), (454, 23134), (489, 23284), (491, 23290), (494, 23308), (511, 23362), (527, 23446), (545, 23539), (593, 23785), (621, 24001), (634, 24085), (641, 24118),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 88
Candidate Starts for Dusk_25:
(Start: 88 @21943 has 134 MA's), (153, 22120), (158, 22141), (212, 22288), (240, 22429), (249, 22462), (256, 22495), (263, 22531), (293, 22624), (311, 22684), (317, 22702), (335, 22783), (386, 23011), (393, 23056), (440, 23251), (441, 23257), (444, 23266), (452, 23311), (454, 23326), (491, 23482), (494, 23500), (496, 23509), (512, 23563), (527, 23638), (528, 23641), (564, 23851), (566, 23863), (593, 23977), (621, 24193), (634, 24277), (639, 24301), (641, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 60
Candidate Starts for Dylan_58:
(Start: 60 @36190 has 35 MA's), (74, 36223), (100, 36292), (101, 36295), (109, 36319), (116, 36343), (126, 36367), (136, 36400), (193, 36607), (197, 36619), (198, 36622), (231, 36769), (233, 36799), (239, 36823), (250, 36853), (251, 36856), (256, 36883), (259, 36907), (269, 36937), (290, 36994), (305, 37054), (308, 37066), (315, 37090), (317, 37093), (326, 37135), (348, 37231), (349, 37234), (409, 37489), (440, 37633), (452, 37693), (465, 37765), (466, 37768), (487, 37864), (527, 38038), (530, 38059), (548, 38152), (551, 38164), (565, 38254), (581, 38329), (596, 38374), (626, 38575), (632, 38629), (637, 38644),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 88
Candidate Starts for Easy2Say_28:
(Start: 88 @23534 has 134 MA's), (153, 23711), (158, 23732), (212, 23879), (240, 24020), (249, 24053), (256, 24086), (263, 24122), (293, 24215), (311, 24275), (317, 24293), (346, 24425), (357, 24470), (386, 24602), (393, 24647), (411, 24707), (437, 24821), (440, 24842), (449, 24881), (452, 24902), (454, 24917), (489, 25067), (491, 25073), (494, 25091), (511, 25145), (527, 25229), (545, 25322), (593, 25568), (621, 25784), (634, 25868), (641, 25901),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 46
Candidate Starts for Eish_18:
(Start: 46 @17540 has 244 MA's), (58, 17561), (Start: 69 @17582 has 1 MA's), (82, 17621), (113, 17690), (115, 17699), (116, 17702), (123, 17720), (136, 17753), (140, 17768), (155, 17816), (186, 17921), (189, 17930), (206, 17975), (221, 18053), (226, 18077), (239, 18143), (256, 18218), (257, 18224), (259, 18242), (267, 18266), (269, 18272), (270, 18275), (284, 18308), (286, 18314), (293, 18344), (301, 18365), (308, 18395), (311, 18404), (336, 18512), (340, 18524), (342, 18533), (343, 18536), (344, 18545), (345, 18551), (348, 18566), (349, 18569), (354, 18590), (363, 18620), (367, 18632), (372, 18665), (373, 18668), (386, 18731), (404, 18806), (406, 18812), (416, 18866), (417, 18869), (425, 18896), (440, 18971), (443, 18983), (444, 18986), (457, 19052), (466, 19097), (468, 19106), (482, 19166), (483, 19169), (491, 19205), (494, 19223), (500, 19244), (524, 19340), (527, 19358), (529, 19367), (530, 19379), (537, 19415), (542, 19445), (558, 19526), (565, 19580), (585,

19682), (608, 19817), (612, 19841), (618, 19895), (621, 19943), (630, 19985), (633, 20009), (634, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 46
Candidate Starts for EleanorGeorge_18:
(40, 17556), (Start: 46 @17568 has 244 MA's), (58, 17589), (Start: 69 @17610 has 1 MA's), (82, 17649), (113, 17718), (115, 17727), (116, 17730), (123, 17748), (136, 17781), (140, 17796), (155, 17844), (188, 17955), (189, 17958), (202, 17988), (205, 18000), (206, 18003), (221, 18081), (226, 18105), (239, 18171), (250, 18216), (256, 18246), (257, 18252), (259, 18270), (267, 18294), (270, 18303), (284, 18336), (286, 18342), (293, 18372), (305, 18411), (308, 18423), (311, 18432), (315, 18447), (317, 18450), (342, 18561), (343, 18564), (344, 18573), (345, 18579), (348, 18594), (349, 18597), (354, 18618), (363, 18648), (367, 18660), (372, 18693), (393, 18804), (395, 18807), (404, 18834), (406, 18840), (416, 18894), (417, 18897), (438, 18984), (440, 18999), (443, 19011), (444, 19014), (457, 19080), (462, 19104), (466, 19125), (468, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (497, 19263), (500, 19272), (509, 19299), (524, 19368), (527, 19386), (529, 19395), (530, 19407), (537, 19443), (542, 19473), (546, 19494), (552, 19518), (558, 19554), (565, 19608), (577, 19668), (585, 19710), (597, 19788), (608, 19845), (612, 19869), (618, 19923), (621, 19971), (630, 20013), (633, 20037), (634, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 88
Candidate Starts for Elite2014_25:
(Start: 88 @21491 has 134 MA's), (153, 21668), (158, 21689), (212, 21836), (249, 22010), (256, 22043), (263, 22079), (293, 22172), (311, 22232), (317, 22250), (346, 22382), (357, 22427), (386, 22559), (393, 22604), (411, 22664), (437, 22778), (440, 22799), (449, 22838), (452, 22859), (454, 22874), (489, 23024), (491, 23030), (494, 23048), (511, 23102), (527, 23186), (545, 23279), (593, 23525), (621, 23741), (634, 23825), (641, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 88
Candidate Starts for Elph10_27:
(Start: 88 @21754 has 134 MA's), (153, 21931), (158, 21952), (212, 22099), (249, 22273), (256, 22306), (263, 22342), (293, 22435), (311, 22495), (317, 22513), (346, 22645), (357, 22690), (386, 22822), (393, 22867), (411, 22927), (437, 23041), (440, 23062), (449, 23101), (452, 23122), (454, 23137), (489, 23287), (491, 23293), (494, 23311), (511, 23365), (527, 23449), (545, 23542), (593, 23788), (621, 24004), (634, 24088), (641, 24121),

Gene: EmiMonkey_18 Start: 17352, Stop: 19889, Start Num: 46
Candidate Starts for EmiMonkey_18:
(Start: 46 @17352 has 244 MA's), (58, 17373), (Start: 69 @17394 has 1 MA's), (82, 17433), (113, 17502), (115, 17511), (116, 17514), (123, 17532), (140, 17580), (186, 17733), (189, 17742), (206, 17787), (225, 17886), (226, 17889), (239, 17955), (256, 18030), (257, 18036), (259, 18054), (267, 18078), (269, 18084), (270, 18087), (284, 18120), (286, 18126), (293, 18156), (301, 18177), (308, 18207), (311, 18216), (315, 18231), (317, 18234), (342, 18345), (343, 18348), (344, 18357), (345, 18363), (348, 18378), (349, 18381), (354, 18402), (363, 18432), (367, 18444), (372, 18477), (393, 18588), (395, 18591), (404, 18618), (406, 18624), (416, 18678), (417, 18681), (440, 18783), (443, 18795), (444, 18798), (457, 18864), (462, 18888), (466, 18909), (468, 18918), (482, 18978), (483, 18981), (491, 19017), (494, 19035), (497, 19047), (500, 19056), (509, 19083), (522, 19140), (524, 19152), (527, 19170), (529, 19179), (530, 19191), (537, 19227), (542, 19257), (545, 19266), (546, 19278), (558, 19338), (565, 19392), (577, 19452), (585, 19494), (608, 19629), (612, 19653), (618, 19707), (621, 19755), (630, 19797), (633, 19821), (634, 19824),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 46
Candidate Starts for Emma_18:

(40, 17436), (Start: 46 @17448 has 244 MA's), (58, 17469), (Start: 69 @17490 has 1 MA's), (82, 17529), (113, 17598), (115, 17607), (116, 17610), (123, 17628), (136, 17661), (140, 17676), (155, 17724), (188, 17835), (189, 17838), (202, 17868), (206, 17883), (221, 17961), (226, 17985), (239, 18051), (250, 18096), (256, 18126), (257, 18132), (259, 18150), (267, 18174), (270, 18183), (284, 18216), (286, 18222), (293, 18252), (305, 18291), (308, 18303), (311, 18312), (315, 18327), (317, 18330), (342, 18441), (343, 18444), (344, 18453), (345, 18459), (348, 18474), (349, 18477), (354, 18498), (363, 18528), (367, 18540), (372, 18573), (386, 18639), (393, 18684), (395, 18687), (404, 18714), (406, 18720), (416, 18774), (417, 18777), (438, 18864), (440, 18879), (443, 18891), (444, 18894), (457, 18960), (462, 18984), (466, 19005), (468, 19014), (478, 19056), (482, 19074), (483, 19077), (491, 19113), (494, 19131), (497, 19143), (500, 19152), (509, 19179), (524, 19248), (527, 19266), (529, 19275), (530, 19287), (537, 19323), (542, 19353), (546, 19374), (552, 19398), (558, 19434), (565, 19488), (577, 19548), (585, 19590), (608, 19725), (612, 19749), (618, 19803), (621, 19851), (630, 19893), (633, 19917), (634, 19920),

Gene: Emmaloid_19 Start: 17189, Stop: 19726, Start Num: 46
Candidate Starts for Emmaloid_19:
(Start: 46 @17189 has 244 MA's), (58, 17210), (Start: 69 @17231 has 1 MA's), (82, 17270), (113, 17339), (115, 17348), (116, 17351), (123, 17369), (140, 17417), (186, 17570), (189, 17579), (206, 17624), (225, 17723), (226, 17726), (239, 17792), (256, 17867), (257, 17873), (259, 17891), (267, 17915), (269, 17921), (270, 17924), (284, 17957), (286, 17963), (293, 17993), (301, 18014), (308, 18044), (311, 18053), (315, 18068), (317, 18071), (342, 18182), (343, 18185), (344, 18194), (345, 18200), (348, 18215), (349, 18218), (354, 18239), (363, 18269), (367, 18281), (372, 18314), (393, 18425), (395, 18428), (404, 18455), (406, 18461), (416, 18515), (417, 18518), (440, 18620), (443, 18632), (444, 18635), (457, 18701), (462, 18725), (466, 18746), (468, 18755), (482, 18815), (483, 18818), (491, 18854), (494, 18872), (497, 18884), (500, 18893), (509, 18920), (522, 18977), (524, 18989), (527, 19007), (529, 19016), (530, 19028), (537, 19064), (542, 19094), (545, 19103), (546, 19115), (558, 19175), (565, 19229), (577, 19289), (585, 19331), (608, 19466), (612, 19490), (618, 19544), (621, 19592), (630, 19634), (633, 19658), (634, 19661),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 88
Candidate Starts for Emmina_27:
(Start: 88 @22115 has 134 MA's), (153, 22292), (158, 22313), (212, 22460), (249, 22634), (256, 22667), (263, 22703), (293, 22796), (311, 22856), (317, 22874), (346, 23006), (357, 23051), (386, 23183), (393, 23228), (411, 23288), (437, 23402), (440, 23423), (449, 23462), (452, 23483), (454, 23498), (489, 23648), (491, 23654), (494, 23672), (511, 23726), (527, 23810), (545, 23903), (593, 24149), (621, 24365), (634, 24449), (641, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 46
Candidate Starts for Empress_19:
(40, 18737), (Start: 46 @18749 has 244 MA's), (58, 18770), (Start: 69 @18791 has 1 MA's), (82, 18830), (113, 18899), (115, 18908), (116, 18911), (123, 18929), (140, 18977), (155, 19025), (188, 19136), (189, 19139), (206, 19184), (221, 19262), (226, 19286), (239, 19352), (250, 19397), (256, 19427), (257, 19433), (259, 19451), (267, 19475), (270, 19484), (284, 19517), (286, 19523), (293, 19553), (305, 19592), (308, 19604), (311, 19613), (315, 19628), (317, 19631), (342, 19742), (343, 19745), (344, 19754), (345, 19760), (348, 19775), (349, 19778), (354, 19799), (363, 19829), (367, 19841), (372, 19874), (393, 19985), (395, 19988), (404, 20015), (406, 20021), (416, 20075), (417, 20078), (440, 20180), (443, 20192), (444, 20195), (457, 20261), (462, 20285), (466, 20306), (468, 20315), (482, 20375), (483, 20378), (491, 20414), (494, 20432), (500, 20453), (509, 20480), (522, 20537), (524, 20549), (527, 20567), (529, 20576), (530, 20588), (537, 20624), (542, 20654), (545, 20663), (546, 20675), (558, 20735), (565, 20789), (577, 20849), (585, 20891), (608, 21026), (612, 21050), (618, 21104), (621, 21152), (627, 21173), (633, 21218), (634, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 46

Candidate Starts for Enby_19:
(40, 17207), (Start: 46 @17219 has 244 MA's), (58, 17240), (Start: 69 @17261 has 1 MA's), (82, 17300), (113, 17369), (115, 17378), (116, 17381), (123, 17399), (136, 17432), (140, 17447), (155, 17495), (186, 17600), (189, 17609), (205, 17651), (206, 17654), (221, 17732), (226, 17756), (239, 17822), (250, 17867), (256, 17897), (257, 17903), (259, 17921), (267, 17945), (270, 17954), (284, 17987), (286, 17993), (293, 18023), (305, 18062), (308, 18074), (311, 18083), (315, 18098), (317, 18101), (342, 18212), (344, 18224), (345, 18230), (348, 18245), (349, 18248), (354, 18269), (363, 18299), (367, 18311), (372, 18344), (386, 18410), (393, 18455), (395, 18458), (404, 18485), (406, 18491), (416, 18545), (417, 18548), (425, 18575), (440, 18650), (443, 18662), (444, 18665), (457, 18731), (462, 18755), (468, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (500, 18923), (509, 18950), (524, 19019), (527, 19037), (529, 19046), (530, 19058), (537, 19094), (542, 19124), (545, 19133), (546, 19145), (558, 19205), (565, 19259), (577, 19319), (585, 19361), (597, 19439), (608, 19496), (612, 19520), (618, 19574), (621, 19622), (630, 19664), (633, 19688), (634, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 47
Candidate Starts for EniyanLRS_40:
(Start: 47 @28045 has 6 MA's), (75, 28114), (119, 28237), (122, 28243), (123, 28246), (132, 28270), (139, 28291), (186, 28447), (187, 28453), (189, 28459), (198, 28489), (200, 28495), (206, 28516), (208, 28525), (219, 28585), (234, 28663), (257, 28762), (264, 28795), (269, 28810), (270, 28813), (286, 28852), (301, 28903), (305, 28921), (311, 28942), (313, 28948), (326, 29002), (342, 29071), (347, 29095), (350, 29116), (357, 29137), (361, 29146), (367, 29167), (372, 29200), (373, 29203), (382, 29254), (386, 29266), (401, 29332), (407, 29350), (413, 29389), (440, 29506), (450, 29551), (461, 29608), (466, 29632), (468, 29641), (472, 29659), (482, 29704), (489, 29737), (495, 29773), (536, 29947), (537, 29965), (538, 29971), (549, 30028), (607, 30352), (610, 30370), (615, 30421), (623, 30484), (633, 30559),

Gene: Enzomatic_20 Start: 17446, Stop: 19983, Start Num: 46
Candidate Starts for Enzomatic_20:
(Start: 46 @17446 has 244 MA's), (58, 17467), (Start: 69 @17488 has 1 MA's), (81, 17524), (82, 17527), (113, 17596), (115, 17605), (116, 17608), (123, 17626), (136, 17659), (140, 17674), (155, 17722), (186, 17827), (188, 17833), (189, 17836), (205, 17878), (206, 17881), (226, 17983), (239, 18049), (250, 18094), (256, 18124), (257, 18130), (259, 18148), (267, 18172), (270, 18181), (284, 18214), (286, 18220), (301, 18271), (305, 18289), (308, 18301), (311, 18310), (315, 18325), (318, 18331), (342, 18439), (344, 18451), (345, 18457), (348, 18472), (349, 18475), (354, 18496), (363, 18526), (367, 18538), (372, 18571), (386, 18637), (393, 18682), (395, 18685), (404, 18712), (406, 18718), (416, 18772), (417, 18775), (438, 18862), (440, 18877), (443, 18889), (444, 18892), (457, 18958), (466, 19003), (468, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (497, 19141), (500, 19150), (509, 19177), (524, 19246), (527, 19264), (529, 19273), (530, 19285), (537, 19321), (542, 19351), (546, 19372), (552, 19396), (558, 19432), (565, 19486), (577, 19546), (585, 19588), (597, 19666), (608, 19723), (612, 19747), (618, 19801), (621, 19849), (630, 19891), (633, 19915), (634, 19918),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 46
Candidate Starts for Eradicator_18:
(Start: 46 @17363 has 244 MA's), (58, 17384), (90, 17453), (113, 17513), (115, 17522), (116, 17525), (136, 17576), (140, 17591), (155, 17639), (188, 17750), (189, 17753), (203, 17786), (205, 17795), (206, 17798), (221, 17876), (233, 17942), (240, 17975), (253, 18029), (256, 18041), (267, 18089), (270, 18098), (272, 18107), (287, 18140), (301, 18182), (304, 18197), (313, 18227), (314, 18233), (315, 18236), (317, 18239), (323, 18266), (328, 18287), (335, 18320), (344, 18362), (345, 18368), (346, 18371), (348, 18383), (349, 18386), (356, 18413), (363, 18437), (367, 18449), (372, 18482), (377, 18503), (390, 18575), (395, 18596), (422, 18707), (430, 18731), (431, 18734), (435, 18758), (440, 18788), (446, 18812), (452, 18848), (453, 18854), (454, 18863), (474, 18953), (478, 18977),

(479, 18992), (489, 19034), (491, 19040), (502, 19085), (525, 19181), (527, 19196), (529, 19205), (533, 19229), (545, 19292), (565, 19418), (606, 19634), (612, 19679), (621, 19781), (637, 19859),

Gene: Erk16_30 Start: 24319, Stop: 26589, Start Num: 157
Candidate Starts for Erk16_30:
(Start: 157 @24319 has 22 MA's), (196, 24454), (199, 24463), (233, 24637), (234, 24643), (237, 24655), (273, 24808), (282, 24823), (288, 24838), (382, 25219), (383, 25225), (391, 25270), (412, 25357), (455, 25558), (456, 25564), (466, 25612), (472, 25642), (476, 25666), (515, 25855), (523, 25882), (530, 25930), (544, 26002), (552, 26041), (553, 26062), (556, 26077), (559, 26095), (561, 26125), (578, 26209), (616, 26410), (621, 26452), (647, 26578),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 46
Candidate Starts for Estave1_18:
(Start: 46 @17517 has 244 MA's), (58, 17538), (Start: 69 @17559 has 1 MA's), (84, 17598), (113, 17667), (115, 17676), (116, 17679), (123, 17697), (136, 17730), (140, 17745), (155, 17793), (179, 17847), (189, 17883), (191, 17892), (204, 17910), (206, 17922), (209, 17934), (214, 17958), (215, 17961), (247, 18105), (250, 18114), (256, 18138), (259, 18162), (267, 18186), (269, 18192), (277, 18213), (286, 18234), (293, 18264), (303, 18294), (308, 18315), (333, 18408), (335, 18423), (336, 18432), (342, 18453), (343, 18456), (363, 18540), (364, 18543), (367, 18552), (371, 18579), (373, 18588), (380, 18627), (384, 18648), (386, 18651), (392, 18687), (399, 18708), (416, 18786), (417, 18789), (433, 18843), (443, 18903), (462, 18996), (466, 19017), (475, 19053), (486, 19107), (489, 19116), (507, 19194), (512, 19212), (519, 19248), (520, 19251), (524, 19269), (525, 19272), (527, 19287), (537, 19344), (539, 19356), (558, 19452), (569, 19539), (580, 19587), (584, 19611), (590, 19638), (593, 19647), (596, 19686), (604, 19725), (608, 19749), (611, 19770), (621, 19866), (627, 19887), (637, 19950), (641, 19977), (644, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 88
Candidate Starts for Eureka_26:
(Start: 88 @22269 has 134 MA's), (153, 22446), (158, 22467), (212, 22614), (240, 22755), (249, 22788), (256, 22821), (263, 22857), (293, 22950), (311, 23010), (317, 23028), (335, 23109), (386, 23337), (393, 23382), (440, 23577), (441, 23583), (444, 23592), (452, 23637), (454, 23652), (491, 23808), (494, 23826), (496, 23835), (512, 23889), (527, 23964), (528, 23967), (564, 24177), (566, 24189), (593, 24303), (621, 24519), (634, 24603), (639, 24627), (641, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 88
Candidate Starts for FairyPath_26:
(Start: 88 @22481 has 134 MA's), (153, 22658), (158, 22679), (212, 22826), (240, 22967), (249, 23000), (256, 23033), (263, 23069), (293, 23162), (311, 23222), (317, 23240), (350, 23396), (357, 23417), (382, 23537), (386, 23549), (393, 23594), (440, 23789), (441, 23795), (444, 23804), (452, 23849), (454, 23864), (491, 24020), (494, 24038), (496, 24047), (512, 24101), (527, 24176), (528, 24179), (564, 24389), (566, 24401), (593, 24515), (621, 24731), (634, 24815), (639, 24839), (641, 24848),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 60
Candidate Starts for Familton_59:
(Start: 60 @36102 has 35 MA's), (74, 36135), (100, 36204), (101, 36207), (109, 36231), (116, 36255), (126, 36279), (136, 36312), (193, 36519), (197, 36531), (198, 36534), (231, 36681), (233, 36711), (239, 36735), (250, 36765), (251, 36768), (256, 36795), (259, 36819), (269, 36849), (290, 36906), (294, 36930), (305, 36966), (308, 36978), (315, 37002), (317, 37005), (326, 37047), (348, 37143), (349, 37146), (409, 37401), (440, 37545), (452, 37605), (465, 37677), (466, 37680), (487, 37776), (527, 37950), (530, 37971), (548, 38064), (551, 38076), (565, 38166), (581, 38241), (596, 38286), (626, 38487), (632, 38541), (637, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 46
Candidate Starts for Fancypants_18:
(40, 17396), (Start: 46 @17408 has 244 MA's), (58, 17429), (Start: 69 @17450 has 1 MA's), (82, 17489), (113, 17558), (115, 17567), (116, 17570), (123, 17588), (136, 17621), (140, 17636), (155, 17684), (188, 17795), (189, 17798), (202, 17828), (205, 17840), (206, 17843), (221, 17921), (226, 17945), (239, 18011), (250, 18056), (256, 18086), (257, 18092), (259, 18110), (267, 18134), (270, 18143), (284, 18176), (286, 18182), (293, 18212), (305, 18251), (308, 18263), (311, 18272), (315, 18287), (317, 18290), (342, 18401), (343, 18404), (344, 18413), (345, 18419), (348, 18434), (349, 18437), (354, 18458), (363, 18488), (367, 18500), (372, 18533), (393, 18644), (395, 18647), (404, 18674), (406, 18680), (416, 18734), (417, 18737), (440, 18839), (443, 18851), (444, 18854), (457, 18920), (462, 18944), (466, 18965), (468, 18974), (482, 19034), (483, 19037), (484, 19049), (491, 19073), (494, 19091), (497, 19103), (500, 19112), (509, 19139), (524, 19208), (527, 19226), (529, 19235), (530, 19247), (537, 19283), (542, 19313), (546, 19334), (552, 19358), (558, 19394), (565, 19448), (577, 19508), (585, 19550), (597, 19628), (608, 19685), (612, 19709), (618, 19763), (621, 19811), (630, 19853), (633, 19877), (634, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 46
Candidate Starts for Fastidio_18:
(40, 17353), (Start: 46 @17365 has 244 MA's), (58, 17386), (Start: 69 @17407 has 1 MA's), (82, 17446), (113, 17515), (115, 17524), (116, 17527), (123, 17545), (136, 17578), (140, 17593), (155, 17641), (188, 17752), (189, 17755), (202, 17785), (205, 17797), (206, 17800), (221, 17878), (226, 17902), (239, 17968), (250, 18013), (256, 18043), (257, 18049), (259, 18067), (267, 18091), (270, 18100), (284, 18133), (286, 18139), (293, 18169), (305, 18208), (308, 18220), (311, 18229), (315, 18244), (317, 18247), (342, 18358), (343, 18361), (344, 18370), (345, 18376), (348, 18391), (349, 18394), (354, 18415), (363, 18445), (367, 18457), (372, 18490), (393, 18601), (395, 18604), (404, 18631), (406, 18637), (416, 18691), (417, 18694), (438, 18781), (440, 18796), (443, 18808), (444, 18811), (457, 18877), (461, 18898), (462, 18901), (466, 18922), (478, 18973), (482, 18991), (483, 18994), (491, 19030), (494, 19048), (497, 19060), (500, 19069), (522, 19153), (524, 19165), (527, 19183), (529, 19192), (530, 19204), (537, 19240), (542, 19270), (552, 19315), (558, 19351), (565, 19405), (585, 19507), (597, 19585), (608, 19642), (612, 19666), (618, 19720), (621, 19768), (630, 19810), (633, 19834), (634, 19837),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 88
Candidate Starts for Filch_27:
(Start: 88 @22042 has 134 MA's), (153, 22219), (158, 22240), (212, 22387), (240, 22528), (249, 22561), (256, 22594), (263, 22630), (293, 22723), (311, 22783), (317, 22801), (346, 22933), (357, 22978), (386, 23110), (393, 23155), (411, 23215), (437, 23329), (440, 23350), (449, 23389), (452, 23410), (454, 23425), (489, 23575), (491, 23581), (494, 23599), (511, 23653), (527, 23737), (545, 23830), (593, 24076), (621, 24292), (634, 24376), (641, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 46
Candidate Starts for Filuzino_18:
(40, 17378), (Start: 46 @17390 has 244 MA's), (58, 17411), (Start: 69 @17432 has 1 MA's), (82, 17471), (113, 17540), (115, 17549), (116, 17552), (123, 17570), (136, 17603), (140, 17618), (155, 17666), (188, 17777), (189, 17780), (202, 17810), (206, 17825), (221, 17903), (226, 17927), (239, 17993), (250, 18038), (256, 18068), (257, 18074), (259, 18092), (267, 18116), (270, 18125), (284, 18158), (286, 18164), (293, 18194), (305, 18233), (308, 18245), (311, 18254), (315, 18269), (317, 18272), (342, 18383), (343, 18386), (344, 18395), (345, 18401), (348, 18416), (349, 18419), (354, 18440), (363, 18470), (367, 18482), (372, 18515), (393, 18626), (395, 18629), (404, 18656), (406, 18662), (416, 18716), (417, 18719), (440, 18821), (443, 18833), (444, 18836), (457, 18902), (462, 18926), (466, 18947), (468, 18956), (482, 19016), (483, 19019), (491, 19055), (494, 19073), (497, 19085), (500, 19094), (509, 19121), (524, 19190), (527, 19208), (529, 19217), (530, 19229), (537, 19265), (542, 19295), (546, 19316), (552, 19340), (558, 19376), (565, 19430), (577, 19490), (585,

19532), (597, 19610), (608, 19667), (612, 19691), (618, 19745), (621, 19793), (630, 19835), (633, 19859), (634, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 88
Candidate Starts for FireRed_26:
(Start: 88 @22312 has 134 MA's), (153, 22489), (158, 22510), (212, 22657), (240, 22798), (249, 22831), (256, 22864), (263, 22900), (293, 22993), (311, 23053), (317, 23071), (346, 23203), (357, 23248), (386, 23380), (393, 23425), (411, 23485), (437, 23599), (440, 23620), (449, 23659), (452, 23680), (454, 23695), (489, 23845), (491, 23851), (494, 23869), (511, 23923), (527, 24007), (545, 24100), (593, 24346), (621, 24562), (634, 24646), (641, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 60
Candidate Starts for Firecracker_59:
(Start: 60 @36292 has 35 MA's), (74, 36325), (100, 36394), (101, 36397), (109, 36421), (116, 36445), (126, 36469), (136, 36502), (193, 36709), (197, 36721), (198, 36724), (231, 36871), (233, 36901), (239, 36925), (250, 36955), (251, 36958), (256, 36985), (259, 37009), (269, 37039), (290, 37096), (305, 37156), (308, 37168), (315, 37192), (317, 37195), (326, 37237), (348, 37333), (349, 37336), (393, 37540), (409, 37591), (440, 37735), (452, 37795), (465, 37867), (466, 37870), (487, 37966), (527, 38140), (530, 38161), (548, 38254), (551, 38266), (565, 38356), (581, 38431), (596, 38476), (626, 38677), (632, 38731), (637, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 46
Candidate Starts for Firehouse51_19:
(40, 17945), (Start: 46 @17957 has 244 MA's), (58, 17978), (Start: 69 @17999 has 1 MA's), (82, 18038), (113, 18107), (115, 18116), (116, 18119), (123, 18137), (136, 18170), (140, 18185), (155, 18233), (188, 18344), (189, 18347), (202, 18377), (205, 18389), (206, 18392), (221, 18470), (226, 18494), (239, 18560), (250, 18605), (256, 18635), (257, 18641), (259, 18659), (267, 18683), (270, 18692), (284, 18725), (286, 18731), (293, 18761), (305, 18800), (308, 18812), (311, 18821), (315, 18836), (317, 18839), (342, 18950), (343, 18953), (344, 18962), (345, 18968), (348, 18983), (349, 18986), (354, 19007), (363, 19037), (367, 19049), (372, 19082), (393, 19193), (395, 19196), (404, 19223), (406, 19229), (416, 19283), (417, 19286), (440, 19388), (443, 19400), (444, 19403), (457, 19469), (462, 19493), (466, 19514), (468, 19523), (482, 19583), (483, 19586), (491, 19622), (494, 19640), (497, 19652), (500, 19661), (509, 19688), (524, 19757), (527, 19775), (529, 19784), (530, 19796), (537, 19832), (542, 19862), (546, 19883), (552, 19907), (558, 19943), (565, 19997), (577, 20057), (585, 20099), (597, 20177), (608, 20234), (612, 20258), (618, 20312), (621, 20360), (630, 20402), (633, 20426), (634, 20429),

Gene: FlagStaff_22 Start: 20643, Stop: 23102, Start Num: 49
Candidate Starts for FlagStaff_22:
(Start: 49 @20643 has 12 MA's), (77, 20703), (95, 20751), (160, 20946), (235, 21234), (260, 21336), (267, 21360), (312, 21504), (317, 21519), (335, 21600), (350, 21675), (367, 21732), (370, 21756), (378, 21792), (416, 21978), (419, 21999), (433, 22047), (434, 22062), (447, 22128), (454, 22170), (478, 22263), (480, 22281), (494, 22347), (514, 22428), (531, 22494), (558, 22647), (570, 22737), (583, 22806), (591, 22842), (607, 22935), (619, 23040), (620, 23076),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 46
Candidate Starts for Flathead_19:
(40, 17253), (Start: 46 @17265 has 244 MA's), (58, 17286), (Start: 69 @17307 has 1 MA's), (82, 17346), (113, 17415), (115, 17424), (116, 17427), (123, 17445), (136, 17478), (140, 17493), (155, 17541), (188, 17652), (189, 17655), (202, 17685), (205, 17697), (206, 17700), (221, 17778), (226, 17802), (239, 17868), (250, 17913), (256, 17943), (257, 17949), (259, 17967), (267, 17991), (270, 18000), (284, 18033), (286, 18039), (293, 18069), (305, 18108), (308, 18120), (311, 18129), (315, 18144), (317, 18147), (342, 18258), (343, 18261), (344, 18270), (345, 18276), (348, 18291), (349,

18294), (354, 18315), (363, 18345), (367, 18357), (372, 18390), (386, 18456), (393, 18501), (395, 18504), (404, 18531), (406, 18537), (416, 18591), (417, 18594), (438, 18681), (440, 18696), (443, 18708), (444, 18711), (457, 18777), (462, 18801), (466, 18822), (468, 18831), (482, 18891), (483, 18894), (491, 18930), (494, 18948), (497, 18960), (500, 18969), (509, 18996), (524, 19065), (527, 19083), (529, 19092), (530, 19104), (537, 19140), (542, 19170), (546, 19191), (552, 19215), (558, 19251), (565, 19305), (577, 19365), (585, 19407), (608, 19542), (612, 19566), (618, 19620), (621, 19668), (630, 19710), (633, 19734), (634, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 46
Candidate Starts for Florinda_18:
(Start: 46 @17419 has 244 MA's), (58, 17440), (Start: 69 @17461 has 1 MA's), (82, 17500), (113, 17569), (115, 17578), (116, 17581), (123, 17599), (136, 17632), (140, 17647), (155, 17695), (188, 17806), (189, 17809), (202, 17839), (206, 17854), (221, 17932), (226, 17956), (239, 18022), (250, 18067), (256, 18097), (257, 18103), (259, 18121), (267, 18145), (270, 18154), (284, 18187), (286, 18193), (293, 18223), (305, 18262), (311, 18283), (315, 18298), (317, 18301), (343, 18415), (344, 18424), (345, 18430), (349, 18448), (354, 18469), (363, 18499), (367, 18511), (372, 18544), (393, 18655), (395, 18658), (404, 18685), (406, 18691), (416, 18745), (417, 18748), (438, 18835), (440, 18850), (444, 18865), (462, 18955), (466, 18976), (468, 18985), (482, 19045), (483, 19048), (489, 19078), (494, 19102), (500, 19123), (524, 19219), (527, 19237), (529, 19246), (530, 19258), (537, 19294), (542, 19324), (546, 19345), (552, 19369), (558, 19405), (565, 19459), (577, 19519), (585, 19561), (597, 19639), (608, 19696), (612, 19720), (618, 19774), (621, 19822), (630, 19864), (633, 19888), (634, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 88
Candidate Starts for Flypotenuse_24:
(Start: 88 @21900 has 134 MA's), (153, 22077), (158, 22098), (212, 22245), (240, 22386), (249, 22419), (256, 22452), (263, 22488), (293, 22581), (311, 22641), (317, 22659), (346, 22791), (386, 22968), (393, 23013), (437, 23187), (440, 23208), (449, 23247), (452, 23268), (454, 23283), (491, 23439), (494, 23457), (511, 23511), (527, 23595), (587, 23919), (621, 24150), (634, 24234), (641, 24267),

Gene: FoghornLeghorn_25 Start: 21788, Stop: 24184, Start Num: 88
Candidate Starts for FoghornLeghorn_25:
(Start: 88 @21788 has 134 MA's), (153, 21965), (158, 21986), (212, 22133), (240, 22274), (249, 22307), (256, 22340), (263, 22376), (293, 22469), (311, 22529), (317, 22547), (346, 22679), (357, 22724), (386, 22856), (393, 22901), (437, 23075), (440, 23096), (449, 23135), (452, 23156), (454, 23171), (491, 23327), (494, 23345), (511, 23399), (527, 23483), (545, 23576), (593, 23822), (621, 24038), (634, 24122), (641, 24155),

Gene: FoulBall_58 Start: 36096, Stop: 38606, Start Num: 60
Candidate Starts for FoulBall_58:
(Start: 60 @36096 has 35 MA's), (74, 36129), (100, 36198), (101, 36201), (109, 36225), (116, 36249), (126, 36273), (136, 36306), (193, 36513), (197, 36525), (198, 36528), (231, 36675), (233, 36705), (239, 36729), (250, 36759), (251, 36762), (256, 36789), (259, 36813), (269, 36843), (290, 36900), (294, 36924), (305, 36960), (308, 36972), (315, 36996), (317, 36999), (326, 37041), (348, 37137), (349, 37140), (409, 37395), (440, 37539), (452, 37599), (465, 37671), (466, 37674), (487, 37770), (527, 37944), (530, 37965), (548, 38058), (551, 38070), (565, 38160), (581, 38235), (596, 38280), (626, 38481), (632, 38535), (637, 38550),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 46
Candidate Starts for Frankie_19:
(Start: 46 @17503 has 244 MA's), (58, 17524), (Start: 69 @17545 has 1 MA's), (82, 17584), (113, 17653), (115, 17662), (116, 17665), (123, 17683), (136, 17716), (140, 17731), (155, 17779), (188,

17890), (189, 17893), (202, 17923), (206, 17938), (221, 18016), (226, 18040), (239, 18106), (250, 18151), (256, 18181), (257, 18187), (259, 18205), (267, 18229), (270, 18238), (284, 18271), (286, 18277), (293, 18307), (305, 18346), (311, 18367), (315, 18382), (318, 18388), (349, 18532), (354, 18553), (363, 18583), (367, 18595), (372, 18628), (384, 18691), (386, 18694), (404, 18769), (406, 18775), (416, 18829), (417, 18832), (425, 18859), (428, 18868), (440, 18934), (443, 18946), (444, 18949), (457, 19015), (461, 19036), (462, 19039), (466, 19060), (478, 19111), (482, 19129), (483, 19132), (489, 19162), (494, 19186), (500, 19207), (511, 19240), (524, 19303), (527, 19321), (529, 19330), (530, 19342), (542, 19408), (545, 19417), (546, 19429), (577, 19603), (585, 19645), (597, 19723), (608, 19780), (612, 19804), (618, 19858), (621, 19906), (633, 19972), (634, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 46
Candidate Starts for FreddyB_18:
(Start: 46 @17407 has 244 MA's), (83, 17488), (113, 17557), (115, 17566), (116, 17569), (123, 17587), (140, 17635), (154, 17680), (188, 17794), (189, 17797), (192, 17809), (203, 17830), (205, 17839), (206, 17842), (215, 17890), (221, 17920), (233, 17986), (240, 18019), (250, 18055), (254, 18079), (269, 18139), (270, 18142), (277, 18160), (299, 18223), (301, 18226), (305, 18244), (311, 18265), (317, 18283), (323, 18310), (328, 18331), (335, 18364), (344, 18406), (345, 18412), (346, 18415), (349, 18430), (356, 18457), (363, 18481), (367, 18493), (372, 18526), (390, 18619), (416, 18727), (422, 18751), (430, 18775), (431, 18778), (435, 18802), (440, 18832), (446, 18856), (452, 18892), (453, 18898), (454, 18907), (461, 18934), (474, 18997), (478, 19021), (479, 19036), (489, 19078), (502, 19129), (525, 19225), (527, 19240), (529, 19249), (533, 19273), (545, 19336), (552, 19372), (606, 19678), (612, 19723), (621, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 46
Candidate Starts for Fruitloop_18:
(40, 17417), (Start: 46 @17429 has 244 MA's), (58, 17450), (Start: 69 @17471 has 1 MA's), (82, 17510), (113, 17579), (115, 17588), (116, 17591), (123, 17609), (136, 17642), (140, 17657), (155, 17705), (188, 17816), (189, 17819), (202, 17849), (205, 17861), (206, 17864), (221, 17942), (226, 17966), (239, 18032), (250, 18077), (256, 18107), (257, 18113), (259, 18131), (267, 18155), (270, 18164), (284, 18197), (286, 18203), (293, 18233), (305, 18272), (308, 18284), (311, 18293), (315, 18308), (317, 18311), (342, 18422), (343, 18425), (344, 18434), (345, 18440), (348, 18455), (349, 18458), (354, 18479), (363, 18509), (367, 18521), (372, 18554), (393, 18665), (395, 18668), (404, 18695), (406, 18701), (416, 18755), (417, 18758), (438, 18845), (440, 18860), (443, 18872), (444, 18875), (457, 18941), (462, 18965), (466, 18986), (468, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (497, 19124), (500, 19133), (509, 19160), (524, 19229), (527, 19247), (529, 19256), (530, 19268), (537, 19304), (542, 19334), (546, 19355), (552, 19379), (558, 19415), (565, 19469), (577, 19529), (585, 19571), (597, 19649), (608, 19706), (612, 19730), (618, 19784), (621, 19832), (630, 19874), (633, 19898), (634, 19901),

Gene: Funsized_34 Start: 32646, Stop: 35123, Start Num: 57
Candidate Starts for Funsized_34:
(Start: 57 @32646 has 3 MA's), (61, 32655), (95, 32742), (98, 32748), (110, 32778), (123, 32817), (125, 32820), (132, 32847), (133, 32850), (138, 32865), (144, 32883), (166, 32958), (188, 33021), (207, 33078), (211, 33105), (215, 33120), (216, 33123), (235, 33222), (267, 33354), (269, 33360), (275, 33384), (291, 33420), (299, 33459), (312, 33504), (317, 33519), (327, 33564), (335, 33600), (340, 33621), (360, 33708), (381, 33810), (402, 33909), (410, 33939), (416, 33975), (418, 33990), (419, 33996), (434, 34065), (436, 34071), (446, 34122), (478, 34263), (482, 34287), (490, 34323), (506, 34389), (517, 34434), (529, 34491), (531, 34506), (534, 34518), (549, 34611), (551, 34617), (552, 34620), (564, 34710), (566, 34722), (589, 34848), (607, 34953), (624, 35106),

Gene: GMA2_32 Start: 33886, Stop: 36579, Start Num: 55
Candidate Starts for GMA2_32:

(55, 33886), (103, 34003), (148, 34135), (151, 34150), (160, 34198), (245, 34552), (249, 34567), (284, 34699), (319, 34819), (324, 34840), (336, 34897), (340, 34909), (362, 35002), (376, 35071), (381, 35104), (414, 35257), (442, 35407), (498, 35677), (501, 35689), (519, 35767), (526, 35800), (529, 35815), (530, 35827), (531, 35830), (573, 36097), (582, 36157), (589, 36187), (595, 36238), (601, 36271), (603, 36277), (609, 36304), (623, 36442), (631, 36502), (645, 36568),

Gene: GMA3_19 Start: 28749, Stop: 31493, Start Num: 44
Candidate Starts for GMA3_19:
(44, 28749), (123, 28968), (128, 28983), (167, 29127), (171, 29139), (182, 29184), (218, 29328), (220, 29343), (227, 29373), (255, 29514), (295, 29661), (340, 29826), (342, 29835), (349, 29871), (382, 30024), (390, 30069), (398, 30099), (412, 30162), (437, 30294), (442, 30324), (463, 30426), (477, 30498), (482, 30519), (488, 30549), (493, 30576), (498, 30594), (526, 30714), (582, 31071), (595, 31152), (601, 31185), (616, 31299), (623, 31356), (631, 31416), (645, 31482),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 46
Candidate Starts for GUmbie_18:
(Start: 46 @17402 has 244 MA's), (58, 17423), (Start: 69 @17444 has 1 MA's), (82, 17483), (113, 17552), (115, 17561), (116, 17564), (123, 17582), (136, 17615), (140, 17630), (186, 17783), (189, 17792), (206, 17837), (225, 17936), (226, 17939), (239, 18005), (256, 18080), (257, 18086), (267, 18128), (269, 18134), (270, 18137), (284, 18170), (286, 18176), (293, 18206), (301, 18227), (308, 18257), (311, 18266), (315, 18281), (317, 18284), (342, 18395), (343, 18398), (344, 18407), (345, 18413), (348, 18428), (349, 18431), (354, 18452), (363, 18482), (367, 18494), (372, 18527), (393, 18638), (395, 18641), (404, 18668), (406, 18674), (416, 18728), (417, 18731), (438, 18818), (440, 18833), (443, 18845), (444, 18848), (457, 18914), (462, 18938), (466, 18959), (468, 18968), (478, 19010), (482, 19028), (483, 19031), (489, 19061), (494, 19085), (497, 19097), (500, 19106), (524, 19202), (527, 19220), (529, 19229), (530, 19241), (537, 19277), (542, 19307), (545, 19316), (546, 19328), (558, 19388), (565, 19442), (577, 19502), (585, 19544), (608, 19679), (612, 19703), (618, 19757), (621, 19805), (630, 19847), (633, 19871), (634, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 88
Candidate Starts for Gage_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (240, 22760), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (545, 24062), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 36
Candidate Starts for Gaia_21:
(Start: 36 @19931 has 2 MA's), (68, 20021), (99, 20090), (102, 20099), (103, 20102), (124, 20156), (127, 20168), (149, 20216), (161, 20261), (183, 20333), (189, 20354), (195, 20375), (205, 20396), (206, 20399), (233, 20543), (240, 20576), (257, 20633), (270, 20684), (277, 20702), (308, 20798), (311, 20807), (313, 20813), (315, 20822), (317, 20825), (323, 20852), (328, 20873), (335, 20906), (336, 20915), (342, 20936), (344, 20948), (348, 20969), (363, 21023), (367, 21035), (372, 21068), (387, 21143), (392, 21170), (422, 21293), (431, 21320), (435, 21344), (440, 21374), (446, 21398), (453, 21440), (454, 21449), (479, 21578), (485, 21605), (497, 21656), (525, 21767), (527, 21782), (579, 22073), (608, 22241), (612, 22265), (630, 22409), (634, 22436), (636, 22442), (637, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 46
Candidate Starts for Galactic_18:
(40, 17382), (Start: 46 @17394 has 244 MA's), (58, 17415), (Start: 69 @17436 has 1 MA's), (82, 17475), (113, 17544), (115, 17553), (116, 17556), (123, 17574), (136, 17607), (140, 17622), (155, 17670), (188, 17781), (189, 17784), (202, 17814), (206, 17829), (221, 17907), (226, 17931), (239,

17997), (250, 18042), (256, 18072), (257, 18078), (259, 18096), (267, 18120), (270, 18129), (284, 18162), (286, 18168), (293, 18198), (305, 18237), (308, 18249), (311, 18258), (315, 18273), (317, 18276), (342, 18387), (343, 18390), (344, 18399), (345, 18405), (348, 18420), (349, 18423), (354, 18444), (363, 18474), (367, 18486), (372, 18519), (393, 18630), (395, 18633), (404, 18660), (406, 18666), (416, 18720), (417, 18723), (440, 18825), (443, 18837), (444, 18840), (457, 18906), (462, 18930), (466, 18951), (468, 18960), (482, 19020), (483, 19023), (491, 19059), (494, 19077), (497, 19089), (500, 19098), (509, 19125), (524, 19194), (527, 19212), (529, 19221), (530, 19233), (537, 19269), (542, 19299), (546, 19320), (552, 19344), (558, 19380), (565, 19434), (577, 19494), (585, 19536), (597, 19614), (608, 19671), (612, 19695), (618, 19749), (621, 19797), (630, 19839), (633, 19863), (634, 19866),

Gene: Gandalph_18 Start: 17413, Stop: 19965, Start Num: 46
Candidate Starts for Gandalph_18:
(Start: 46 @17413 has 244 MA's), (83, 17494), (113, 17563), (115, 17572), (116, 17575), (123, 17593), (140, 17641), (154, 17686), (188, 17800), (189, 17803), (192, 17815), (203, 17836), (205, 17845), (206, 17848), (215, 17896), (221, 17926), (233, 17992), (240, 18025), (250, 18061), (254, 18085), (269, 18145), (270, 18148), (277, 18166), (299, 18229), (301, 18232), (305, 18250), (311, 18271), (317, 18289), (323, 18316), (328, 18337), (335, 18370), (344, 18412), (345, 18418), (346, 18421), (349, 18436), (356, 18463), (357, 18466), (363, 18487), (367, 18499), (372, 18532), (390, 18625), (416, 18733), (422, 18757), (425, 18763), (430, 18781), (431, 18784), (435, 18808), (440, 18838), (446, 18862), (452, 18898), (453, 18904), (454, 18913), (461, 18940), (474, 19003), (478, 19027), (479, 19042), (489, 19084), (502, 19135), (525, 19231), (527, 19246), (529, 19255), (533, 19279), (545, 19342), (552, 19378), (606, 19684), (612, 19729), (621, 19831),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 88
Candidate Starts for Gator_24:
(Start: 88 @21899 has 134 MA's), (153, 22076), (158, 22097), (212, 22244), (240, 22385), (249, 22418), (256, 22451), (263, 22487), (293, 22580), (311, 22640), (317, 22658), (335, 22739), (386, 22967), (393, 23012), (440, 23207), (441, 23213), (444, 23222), (452, 23267), (454, 23282), (491, 23438), (494, 23456), (496, 23465), (512, 23519), (527, 23594), (528, 23597), (564, 23807), (566, 23819), (593, 23933), (621, 24149), (634, 24233), (639, 24257), (641, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 88
Candidate Starts for Gemini_29:
(Start: 88 @22791 has 134 MA's), (153, 22968), (158, 22989), (212, 23136), (240, 23277), (249, 23310), (256, 23343), (263, 23379), (293, 23472), (311, 23532), (317, 23550), (346, 23682), (357, 23727), (386, 23859), (393, 23904), (411, 23964), (437, 24078), (440, 24099), (449, 24138), (452, 24159), (454, 24174), (489, 24324), (491, 24330), (494, 24348), (511, 24402), (527, 24486), (545, 24579), (593, 24825), (621, 25041), (634, 25125), (641, 25158),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 46
Candidate Starts for Geralt_18:
(Start: 46 @17396 has 244 MA's), (58, 17417), (Start: 69 @17438 has 1 MA's), (82, 17477), (113, 17546), (115, 17555), (116, 17558), (123, 17576), (140, 17624), (155, 17672), (188, 17783), (189, 17786), (206, 17831), (221, 17909), (226, 17933), (239, 17999), (256, 18074), (257, 18080), (259, 18098), (267, 18122), (270, 18131), (284, 18164), (286, 18170), (293, 18200), (301, 18221), (308, 18251), (311, 18260), (336, 18368), (340, 18380), (342, 18389), (343, 18392), (345, 18407), (348, 18422), (349, 18425), (354, 18446), (367, 18488), (372, 18521), (393, 18632), (395, 18635), (404, 18662), (406, 18668), (416, 18722), (417, 18725), (425, 18752), (440, 18827), (443, 18839), (444, 18842), (457, 18908), (461, 18929), (462, 18932), (466, 18953), (468, 18962), (478, 19004), (482, 19022), (483, 19025), (489, 19055), (494, 19079), (497, 19091), (500, 19100), (524, 19196), (527, 19214), (529, 19223), (530, 19235), (537, 19271), (542, 19301), (545, 19310), (546, 19322), (558, 19382), (565, 19436), (577, 19496), (585, 19538), (608, 19673), (612, 19697), (618, 19751), (621,

19799), (630, 19841), (633, 19865), (634, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 46
Candidate Starts for GigiOuiOui_18:
(Start: 46 @17527 has 244 MA's), (58, 17548), (Start: 69 @17569 has 1 MA's), (82, 17608), (113, 17677), (115, 17686), (116, 17689), (123, 17707), (140, 17755), (186, 17908), (189, 17917), (206, 17962), (225, 18061), (226, 18064), (239, 18130), (256, 18205), (257, 18211), (259, 18229), (267, 18253), (269, 18259), (270, 18262), (284, 18295), (286, 18301), (293, 18331), (301, 18352), (308, 18382), (311, 18391), (315, 18406), (317, 18409), (342, 18520), (343, 18523), (344, 18532), (345, 18538), (348, 18553), (349, 18556), (354, 18577), (363, 18607), (367, 18619), (372, 18652), (393, 18763), (395, 18766), (404, 18793), (406, 18799), (416, 18853), (417, 18856), (440, 18958), (443, 18970), (444, 18973), (457, 19039), (462, 19063), (466, 19084), (468, 19093), (482, 19153), (483, 19156), (491, 19192), (494, 19210), (497, 19222), (500, 19231), (509, 19258), (522, 19315), (524, 19327), (527, 19345), (529, 19354), (530, 19366), (537, 19402), (542, 19432), (545, 19441), (546, 19453), (558, 19513), (565, 19567), (577, 19627), (585, 19669), (608, 19804), (612, 19828), (618, 19882), (621, 19930), (630, 19972), (633, 19996), (634, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 46
Candidate Starts for Girafales_19:
(Start: 46 @17227 has 244 MA's), (58, 17248), (Start: 69 @17269 has 1 MA's), (82, 17308), (113, 17377), (115, 17386), (116, 17389), (123, 17407), (136, 17440), (140, 17455), (155, 17503), (188, 17614), (189, 17617), (202, 17647), (206, 17662), (221, 17740), (226, 17764), (239, 17830), (250, 17875), (256, 17905), (257, 17911), (259, 17929), (267, 17953), (270, 17962), (284, 17995), (286, 18001), (293, 18031), (305, 18070), (311, 18091), (315, 18106), (317, 18109), (343, 18223), (344, 18232), (345, 18238), (349, 18256), (354, 18277), (363, 18307), (367, 18319), (372, 18352), (393, 18463), (395, 18466), (404, 18493), (406, 18499), (416, 18553), (417, 18556), (438, 18643), (440, 18658), (444, 18673), (462, 18763), (466, 18784), (468, 18793), (482, 18853), (483, 18856), (489, 18886), (494, 18910), (500, 18931), (524, 19027), (527, 19045), (529, 19054), (530, 19066), (537, 19102), (542, 19132), (546, 19153), (552, 19177), (558, 19213), (565, 19267), (577, 19327), (585, 19369), (597, 19447), (608, 19504), (612, 19528), (618, 19582), (621, 19630), (630, 19672), (633, 19696), (634, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 46
Candidate Starts for Girr_18:
(Start: 46 @17371 has 244 MA's), (58, 17392), (Start: 69 @17413 has 1 MA's), (82, 17452), (113, 17521), (115, 17530), (116, 17533), (123, 17551), (136, 17584), (140, 17599), (186, 17752), (189, 17761), (206, 17806), (225, 17905), (226, 17908), (239, 17974), (256, 18049), (257, 18055), (267, 18097), (269, 18103), (270, 18106), (284, 18139), (286, 18145), (293, 18175), (301, 18196), (308, 18226), (311, 18235), (315, 18250), (317, 18253), (342, 18364), (343, 18367), (344, 18376), (345, 18382), (348, 18397), (349, 18400), (354, 18421), (363, 18451), (367, 18463), (372, 18496), (393, 18607), (395, 18610), (404, 18637), (406, 18643), (416, 18697), (417, 18700), (438, 18787), (440, 18802), (443, 18814), (444, 18817), (457, 18883), (462, 18907), (466, 18928), (468, 18937), (478, 18979), (482, 18997), (483, 19000), (489, 19030), (494, 19054), (497, 19066), (500, 19075), (524, 19171), (527, 19189), (529, 19198), (530, 19210), (537, 19246), (542, 19276), (545, 19285), (546, 19297), (558, 19357), (565, 19411), (577, 19471), (585, 19513), (608, 19648), (612, 19672), (618, 19726), (621, 19774), (630, 19816), (633, 19840), (634, 19843),

Gene: Giuseppe_30 Start: 24308, Stop: 26578, Start Num: 157
Candidate Starts for Giuseppe_30:
(Start: 157 @24308 has 22 MA's), (196, 24443), (199, 24452), (233, 24626), (234, 24632), (237, 24644), (273, 24797), (282, 24812), (288, 24827), (382, 25208), (383, 25214), (391, 25259), (412, 25346), (455, 25547), (456, 25553), (466, 25601), (472, 25631), (476, 25655), (515, 25844), (523, 25871), (530, 25919), (544, 25991), (552, 26030), (553, 26051), (556, 26066), (559, 26084), (561,

26114), (578, 26198), (616, 26399), (621, 26441), (647, 26567),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 88
Candidate Starts for Glexan_24:
(Start: 88 @21900 has 134 MA's), (153, 22077), (158, 22098), (212, 22245), (240, 22386), (249, 22419), (256, 22452), (263, 22488), (293, 22581), (311, 22641), (317, 22659), (346, 22791), (386, 22968), (393, 23013), (437, 23187), (440, 23208), (449, 23247), (452, 23268), (454, 23283), (491, 23439), (494, 23457), (511, 23511), (527, 23595), (587, 23919), (621, 24150), (634, 24234), (641, 24267),

Gene: GodSpeed_22 Start: 20676, Stop: 23147, Start Num: 49
Candidate Starts for GodSpeed_22:
(Start: 49 @20676 has 12 MA's), (95, 20784), (138, 20904), (160, 20982), (235, 21270), (250, 21315), (252, 21330), (267, 21396), (289, 21453), (312, 21543), (317, 21558), (335, 21639), (350, 21714), (367, 21771), (370, 21795), (378, 21831), (419, 22038), (433, 22092), (436, 22113), (454, 22215), (478, 22308), (480, 22326), (490, 22368), (514, 22473), (531, 22539), (538, 22581), (549, 22644), (552, 22653), (558, 22692), (569, 22779), (619, 23085), (620, 23121), (624, 23130),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 88
Candidate Starts for Goku_26:
(Start: 88 @21998 has 134 MA's), (153, 22175), (158, 22196), (212, 22343), (240, 22484), (249, 22517), (256, 22550), (263, 22586), (293, 22679), (311, 22739), (317, 22757), (335, 22838), (386, 23066), (393, 23111), (440, 23306), (441, 23312), (444, 23321), (452, 23366), (454, 23381), (491, 23537), (494, 23555), (496, 23564), (512, 23618), (527, 23693), (528, 23696), (564, 23906), (566, 23918), (593, 24032), (621, 24248), (634, 24332), (639, 24356), (641, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 88
Candidate Starts for GoldenSpark_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 88
Candidate Starts for Goldilocks_27:
(Start: 88 @21694 has 134 MA's), (153, 21871), (158, 21892), (212, 22039), (240, 22180), (249, 22213), (256, 22246), (263, 22282), (293, 22375), (311, 22435), (317, 22453), (346, 22585), (357, 22630), (386, 22762), (393, 22807), (411, 22867), (437, 22981), (440, 23002), (449, 23041), (452, 23062), (454, 23077), (489, 23227), (491, 23233), (494, 23251), (511, 23305), (527, 23389), (545, 23482), (593, 23728), (621, 23944), (634, 24028), (641, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 123
Candidate Starts for Gonephishing_34:
(Start: 46 @27893 has 244 MA's), (123, 28088), (136, 28124), (140, 28139), (155, 28187), (188, 28298), (189, 28301), (202, 28331), (206, 28346), (221, 28424), (226, 28448), (239, 28514), (250, 28559), (256, 28589), (257, 28595), (259, 28613), (267, 28637), (270, 28646), (284, 28679), (286, 28685), (293, 28715), (305, 28754), (308, 28766), (311, 28775), (315, 28790), (317, 28793), (342, 28904), (343, 28907), (344, 28916), (345, 28922), (348, 28937), (349, 28940), (363, 28991), (367, 29003), (372, 29036), (386, 29102), (393, 29147), (395, 29150), (404, 29177), (406, 29183), (416, 29237), (417, 29240), (438, 29327), (440, 29342), (443, 29354), (444, 29357), (457, 29423), (466, 29468), (468, 29477), (482, 29537), (483, 29540), (491, 29576), (494, 29594), (497, 29606), (500, 29615), (509, 29642), (524, 29711), (527, 29729), (529, 29738), (530, 29750), (537, 29786), (542,

29816), (546, 29837), (552, 29861), (558, 29897), (565, 29951), (577, 30011), (585, 30053), (608, 30188), (612, 30212), (618, 30266), (621, 30314), (630, 30356), (633, 30380), (634, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 88
Candidate Starts for GooberAzure_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (240, 22760), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (545, 24062), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 46
Candidate Starts for Gorge_18:
(Start: 46 @17383 has 244 MA's), (58, 17404), (66, 17425), (83, 17464), (113, 17533), (115, 17542), (116, 17545), (123, 17563), (140, 17611), (155, 17659), (188, 17770), (189, 17773), (203, 17806), (206, 17818), (221, 17896), (233, 17962), (240, 17995), (253, 18049), (256, 18061), (269, 18115), (270, 18118), (272, 18127), (287, 18160), (299, 18199), (301, 18202), (304, 18217), (305, 18220), (313, 18247), (314, 18253), (315, 18256), (317, 18259), (323, 18286), (327, 18304), (328, 18307), (344, 18382), (348, 18403), (349, 18406), (356, 18433), (363, 18457), (372, 18502), (373, 18505), (382, 18556), (395, 18619), (399, 18628), (405, 18652), (431, 18757), (432, 18760), (440, 18811), (441, 18817), (443, 18823), (444, 18826), (452, 18871), (454, 18886), (461, 18913), (466, 18937), (478, 18988), (482, 19006), (483, 19009), (484, 19021), (497, 19075), (527, 19198), (538, 19261), (550, 19324), (560, 19399), (599, 19600), (629, 19828), (636, 19867), (637, 19870),

Gene: Greep_27 Start: 22604, Stop: 25000, Start Num: 88
Candidate Starts for Greep_27:
(Start: 88 @22604 has 134 MA's), (153, 22781), (158, 22802), (212, 22949), (240, 23090), (249, 23123), (256, 23156), (263, 23192), (293, 23285), (311, 23345), (317, 23363), (346, 23495), (357, 23540), (386, 23672), (393, 23717), (437, 23891), (440, 23912), (449, 23951), (452, 23972), (454, 23987), (491, 24143), (494, 24161), (511, 24215), (527, 24299), (545, 24392), (593, 24638), (621, 24854), (634, 24938), (641, 24971),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 46
Candidate Starts for Grimmer_19:
(Start: 46 @18060 has 244 MA's), (58, 18081), (Start: 69 @18102 has 1 MA's), (82, 18141), (113, 18210), (115, 18219), (116, 18222), (123, 18240), (140, 18288), (188, 18447), (189, 18450), (206, 18495), (221, 18573), (225, 18594), (226, 18597), (239, 18663), (256, 18738), (257, 18744), (267, 18786), (269, 18792), (270, 18795), (284, 18828), (286, 18834), (293, 18864), (301, 18885), (308, 18915), (311, 18924), (336, 19032), (340, 19044), (342, 19053), (343, 19056), (344, 19065), (345, 19071), (348, 19086), (349, 19089), (354, 19110), (363, 19140), (367, 19152), (372, 19185), (373, 19188), (386, 19251), (393, 19296), (395, 19299), (404, 19326), (406, 19332), (416, 19386), (417, 19389), (425, 19416), (440, 19491), (443, 19503), (444, 19506), (457, 19572), (461, 19593), (462, 19596), (466, 19617), (482, 19686), (483, 19689), (491, 19725), (494, 19743), (500, 19764), (524, 19860), (527, 19878), (529, 19887), (530, 19899), (537, 19935), (542, 19965), (558, 20046), (565, 20100), (585, 20202), (608, 20337), (612, 20361), (618, 20415), (627, 20484), (633, 20529), (634, 20532),

Gene: Gumball_29 Start: 24266, Stop: 26536, Start Num: 157
Candidate Starts for Gumball_29:
(Start: 157 @24266 has 22 MA's), (196, 24401), (199, 24410), (233, 24584), (234, 24590), (237, 24602), (273, 24755), (282, 24770), (288, 24785), (382, 25166), (383, 25172), (391, 25217), (412, 25304), (442, 25430), (455, 25505), (456, 25511), (466, 25559), (472, 25589), (476, 25613), (515, 25802), (523, 25829), (530, 25877), (544, 25949), (552, 25988), (553, 26009), (556, 26024), (559,

26042), (561, 26072), (578, 26156), (616, 26357), (621, 26399), (647, 26525),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 46
Candidate Starts for Guppsters_19:
(Start: 46 @17584 has 244 MA's), (90, 17674), (113, 17734), (115, 17743), (116, 17746), (123, 17764), (140, 17812), (154, 17857), (188, 17971), (189, 17974), (195, 17995), (203, 18007), (206, 18019), (221, 18097), (233, 18163), (240, 18196), (253, 18250), (256, 18262), (269, 18316), (270, 18319), (272, 18328), (287, 18361), (301, 18403), (304, 18418), (313, 18448), (314, 18454), (315, 18457), (317, 18460), (323, 18487), (327, 18505), (328, 18508), (344, 18583), (348, 18604), (349, 18607), (356, 18634), (363, 18658), (367, 18670), (382, 18757), (395, 18820), (399, 18829), (405, 18853), (431, 18958), (432, 18961), (440, 19012), (441, 19018), (443, 19024), (444, 19027), (452, 19072), (454, 19087), (461, 19114), (466, 19138), (468, 19147), (482, 19207), (483, 19210), (484, 19222), (494, 19264), (497, 19276), (527, 19399), (538, 19462), (550, 19525), (560, 19600), (599, 19801), (621, 19972), (629, 20011), (636, 20050), (637, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 46
Candidate Starts for Hades_18:
(Start: 46 @17406 has 244 MA's), (90, 17496), (113, 17556), (115, 17565), (116, 17568), (123, 17586), (140, 17634), (154, 17679), (188, 17793), (189, 17796), (192, 17808), (203, 17829), (205, 17838), (206, 17841), (221, 17919), (233, 17985), (240, 18018), (250, 18054), (254, 18078), (269, 18138), (270, 18141), (277, 18159), (299, 18222), (301, 18225), (305, 18243), (311, 18264), (317, 18282), (323, 18309), (328, 18330), (335, 18363), (344, 18405), (345, 18411), (346, 18414), (349, 18429), (356, 18456), (357, 18459), (363, 18480), (367, 18492), (372, 18525), (390, 18618), (416, 18726), (422, 18750), (425, 18756), (430, 18774), (431, 18777), (435, 18801), (440, 18831), (446, 18855), (452, 18891), (453, 18897), (454, 18906), (461, 18933), (474, 18996), (478, 19020), (479, 19035), (489, 19077), (502, 19128), (525, 19224), (527, 19239), (529, 19248), (533, 19272), (545, 19335), (552, 19371), (606, 19677), (612, 19722), (621, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 46
Candidate Starts for Hamulus_18:
(40, 17391), (Start: 46 @17403 has 244 MA's), (58, 17424), (Start: 69 @17445 has 1 MA's), (82, 17484), (113, 17553), (115, 17562), (116, 17565), (123, 17583), (136, 17616), (140, 17631), (155, 17679), (186, 17784), (188, 17790), (189, 17793), (202, 17823), (205, 17835), (206, 17838), (221, 17916), (226, 17940), (239, 18006), (256, 18081), (257, 18087), (259, 18105), (267, 18129), (270, 18138), (284, 18171), (286, 18177), (293, 18207), (305, 18246), (308, 18258), (311, 18267), (315, 18282), (317, 18285), (342, 18396), (343, 18399), (344, 18408), (345, 18414), (348, 18429), (349, 18432), (354, 18453), (363, 18483), (367, 18495), (372, 18528), (386, 18594), (393, 18639), (395, 18642), (404, 18669), (406, 18675), (416, 18729), (417, 18732), (438, 18819), (440, 18834), (443, 18846), (444, 18849), (457, 18915), (466, 18960), (468, 18969), (482, 19029), (483, 19032), (491, 19068), (494, 19086), (497, 19098), (500, 19107), (509, 19134), (524, 19203), (527, 19221), (529, 19230), (530, 19242), (537, 19278), (542, 19308), (546, 19329), (552, 19353), (558, 19389), (565, 19443), (577, 19503), (585, 19545), (608, 19680), (612, 19704), (618, 19758), (621, 19806), (630, 19848), (633, 19872), (634, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 88
Candidate Starts for HanKaySha_27:
(Start: 88 @22026 has 134 MA's), (153, 22203), (158, 22224), (212, 22371), (249, 22545), (256, 22578), (263, 22614), (293, 22707), (311, 22767), (317, 22785), (346, 22917), (357, 22962), (386, 23094), (393, 23139), (411, 23199), (437, 23313), (440, 23334), (449, 23373), (452, 23394), (454, 23409), (489, 23559), (491, 23565), (494, 23583), (511, 23637), (527, 23721), (545, 23814), (593, 24060), (621, 24276), (634, 24360), (641, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 46

Candidate Starts for Hannaconda_33:
(Start: 46 @26378 has 244 MA's), (123, 26573), (136, 26609), (140, 26624), (174, 26711), (179, 26726), (189, 26762), (190, 26768), (206, 26801), (209, 26813), (247, 26984), (250, 26993), (256, 27017), (269, 27071), (284, 27107), (286, 27113), (293, 27143), (303, 27173), (308, 27194), (311, 27203), (315, 27218), (333, 27287), (349, 27368), (350, 27377), (357, 27398), (358, 27401), (367, 27431), (373, 27467), (382, 27518), (384, 27527), (386, 27530), (390, 27557), (392, 27566), (399, 27587), (416, 27665), (417, 27668), (435, 27740), (441, 27776), (443, 27782), (451, 27824), (452, 27830), (461, 27872), (462, 27875), (466, 27896), (467, 27902), (468, 27905), (475, 27935), (507, 28076), (511, 28085), (512, 28094), (518, 28127), (524, 28151), (525, 28154), (527, 28169), (530, 28190), (537, 28226), (538, 28232), (539, 28238), (543, 28259), (548, 28286), (569, 28421), (584, 28493), (586, 28499), (593, 28517), (608, 28616), (621, 28733), (635, 28814), (637, 28817), (641, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 88
Candidate Starts for Harella_25:
(Start: 88 @22416 has 134 MA's), (153, 22593), (158, 22614), (212, 22761), (240, 22902), (249, 22935), (256, 22968), (263, 23004), (293, 23097), (311, 23157), (317, 23175), (346, 23307), (386, 23484), (393, 23529), (437, 23703), (440, 23724), (449, 23763), (452, 23784), (454, 23799), (491, 23955), (494, 23973), (511, 24027), (527, 24111), (587, 24435), (621, 24666), (634, 24750), (641, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 46
Candidate Starts for Harley_18:
(Start: 46 @17393 has 244 MA's), (58, 17414), (Start: 69 @17435 has 1 MA's), (82, 17474), (113, 17543), (115, 17552), (116, 17555), (123, 17573), (140, 17621), (188, 17780), (189, 17783), (206, 17828), (225, 17927), (226, 17930), (239, 17996), (256, 18071), (257, 18077), (259, 18095), (267, 18119), (269, 18125), (270, 18128), (284, 18161), (286, 18167), (293, 18197), (301, 18218), (305, 18236), (311, 18257), (336, 18365), (340, 18377), (342, 18386), (343, 18389), (344, 18398), (345, 18404), (348, 18419), (349, 18422), (354, 18443), (367, 18485), (372, 18518), (373, 18521), (386, 18584), (393, 18629), (395, 18632), (406, 18665), (416, 18719), (417, 18722), (425, 18749), (440, 18824), (443, 18836), (444, 18839), (457, 18905), (461, 18926), (462, 18929), (466, 18950), (478, 19001), (482, 19019), (483, 19022), (489, 19052), (494, 19076), (497, 19088), (500, 19097), (524, 19193), (527, 19211), (529, 19220), (530, 19232), (537, 19268), (542, 19298), (545, 19307), (546, 19319), (552, 19343), (558, 19379), (577, 19493), (585, 19535), (608, 19670), (612, 19694), (618, 19748), (621, 19796), (627, 19817), (633, 19862), (634, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 11
Candidate Starts for Hawkeye_32:
(Start: 11 @24298 has 1 MA's), (17, 24391), (19, 24412), (20, 24433), (21, 24442), (70, 24658), (177, 25009), (208, 25105), (223, 25180), (284, 25429), (292, 25456), (333, 25609), (336, 25633), (345, 25672), (397, 25903), (400, 25906), (425, 26014), (440, 26089), (453, 26155), (494, 26347), (497, 26359), (512, 26410), (537, 26542), (575, 26761), (613, 26992), (623, 27076),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 46
Candidate Starts for Hegedechwinu_19:
(40, 17242), (Start: 46 @17254 has 244 MA's), (58, 17275), (Start: 69 @17296 has 1 MA's), (82, 17335), (113, 17404), (115, 17413), (116, 17416), (123, 17434), (136, 17467), (140, 17482), (155, 17524), (188, 17635), (189, 17638), (202, 17668), (206, 17683), (221, 17761), (239, 17851), (250, 17896), (256, 17926), (257, 17932), (259, 17950), (267, 17974), (270, 17983), (284, 18016), (286, 18022), (293, 18052), (305, 18091), (308, 18103), (311, 18112), (315, 18127), (317, 18130), (342, 18241), (343, 18244), (344, 18253), (345, 18259), (348, 18274), (349, 18277), (354, 18298), (363, 18328), (367, 18340), (372, 18373), (393, 18484), (395, 18487), (404, 18514), (406, 18520), (416, 18574), (417, 18577), (440, 18679), (443, 18691), (444, 18694), (457, 18760), (462, 18784), (466,

18805), (468, 18814), (482, 18874), (483, 18877), (491, 18913), (494, 18931), (497, 18943), (500, 18952), (509, 18979), (524, 19048), (527, 19066), (529, 19075), (530, 19087), (537, 19123), (542, 19153), (546, 19174), (552, 19198), (558, 19234), (565, 19288), (577, 19348), (585, 19390), (597, 19468), (608, 19525), (612, 19549), (618, 19603), (621, 19651), (630, 19693), (633, 19717), (634, 19720),

Gene: Helpful_31 Start: 24316, Stop: 26586, Start Num: 157
Candidate Starts for Helpful_31:
(Start: 157 @24316 has 22 MA's), (196, 24451), (199, 24460), (233, 24634), (234, 24640), (237, 24652), (273, 24805), (282, 24820), (288, 24835), (382, 25216), (383, 25222), (391, 25267), (412, 25354), (456, 25561), (466, 25609), (472, 25639), (476, 25663), (515, 25852), (523, 25879), (530, 25927), (544, 25999), (552, 26038), (553, 26059), (556, 26074), (559, 26092), (561, 26122), (578, 26206), (616, 26407), (621, 26449), (647, 26575),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 88
Candidate Starts for Henry_26:
(Start: 88 @22283 has 134 MA's), (153, 22460), (158, 22481), (212, 22628), (240, 22769), (249, 22802), (256, 22835), (263, 22871), (293, 22964), (311, 23024), (317, 23042), (350, 23198), (357, 23219), (382, 23339), (386, 23351), (393, 23396), (440, 23591), (444, 23606), (452, 23651), (454, 23666), (491, 23822), (494, 23840), (496, 23849), (527, 23978), (528, 23981), (564, 24191), (566, 24203), (593, 24317), (621, 24533), (634, 24617), (639, 24641), (641, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 88
Candidate Starts for Highbury_27:
(Start: 88 @21945 has 134 MA's), (153, 22122), (158, 22143), (212, 22290), (240, 22431), (249, 22464), (256, 22497), (263, 22533), (293, 22626), (311, 22686), (317, 22704), (346, 22836), (357, 22881), (386, 23013), (393, 23058), (411, 23118), (437, 23232), (440, 23253), (449, 23292), (452, 23313), (454, 23328), (489, 23478), (491, 23484), (494, 23502), (511, 23556), (527, 23640), (545, 23733), (593, 23979), (621, 24195), (634, 24279), (641, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 46
Candidate Starts for Hlubikazi_18:
(Start: 46 @17495 has 244 MA's), (58, 17516), (Start: 69 @17537 has 1 MA's), (82, 17576), (113, 17645), (115, 17654), (116, 17657), (123, 17675), (140, 17723), (188, 17882), (189, 17885), (205, 17927), (206, 17930), (221, 18008), (225, 18029), (226, 18032), (239, 18098), (256, 18173), (257, 18179), (267, 18221), (269, 18227), (270, 18230), (284, 18263), (286, 18269), (293, 18299), (301, 18320), (308, 18350), (311, 18359), (336, 18467), (340, 18479), (342, 18488), (343, 18491), (344, 18500), (345, 18506), (348, 18521), (349, 18524), (354, 18545), (367, 18587), (372, 18620), (404, 18761), (406, 18767), (416, 18821), (417, 18824), (425, 18851), (440, 18926), (443, 18938), (444, 18941), (457, 19007), (462, 19031), (466, 19052), (468, 19061), (482, 19121), (483, 19124), (491, 19160), (494, 19178), (500, 19199), (509, 19226), (524, 19295), (527, 19313), (529, 19322), (530, 19334), (537, 19370), (542, 19400), (558, 19481), (577, 19595), (585, 19637), (608, 19772), (612, 19796), (618, 19850), (633, 19964), (634, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 88
Candidate Starts for Holt_27:
(Start: 88 @21564 has 134 MA's), (153, 21741), (158, 21762), (212, 21909), (240, 22050), (249, 22083), (256, 22116), (263, 22152), (293, 22245), (311, 22305), (317, 22323), (346, 22455), (357, 22500), (386, 22632), (393, 22677), (411, 22737), (437, 22851), (440, 22872), (449, 22911), (452, 22932), (454, 22947), (489, 23097), (491, 23103), (494, 23121), (511, 23175), (527, 23259), (545, 23352), (593, 23598), (621, 23814), (634, 23898), (641, 23931),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for Hoonter_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (545, 24062), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: Hopey_28 Start: 22561, Stop: 24957, Start Num: 88
Candidate Starts for Hopey_28:
(Start: 88 @22561 has 134 MA's), (153, 22738), (158, 22759), (212, 22906), (249, 23080), (256, 23113), (263, 23149), (293, 23242), (311, 23302), (317, 23320), (346, 23452), (357, 23497), (386, 23629), (393, 23674), (411, 23734), (437, 23848), (440, 23869), (449, 23908), (452, 23929), (454, 23944), (489, 24094), (491, 24100), (494, 24118), (511, 24172), (527, 24256), (545, 24349), (593, 24595), (621, 24811), (634, 24895), (641, 24928),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 88
Candidate Starts for HufflyPuff_25:
(Start: 88 @22268 has 134 MA's), (153, 22445), (158, 22466), (212, 22613), (240, 22754), (249, 22787), (256, 22820), (263, 22856), (293, 22949), (311, 23009), (317, 23027), (346, 23159), (357, 23204), (386, 23336), (393, 23381), (411, 23441), (437, 23555), (440, 23576), (449, 23615), (452, 23636), (454, 23651), (489, 23801), (491, 23807), (494, 23825), (511, 23879), (527, 23963), (545, 24056), (593, 24302), (621, 24518), (634, 24602), (641, 24635),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 88
Candidate Starts for IHOP_26:
(Start: 88 @22460 has 134 MA's), (153, 22637), (158, 22658), (212, 22805), (240, 22946), (249, 22979), (256, 23012), (263, 23048), (293, 23141), (311, 23201), (317, 23219), (350, 23375), (357, 23396), (382, 23516), (386, 23528), (393, 23573), (440, 23768), (441, 23774), (444, 23783), (452, 23828), (454, 23843), (491, 23999), (494, 24017), (496, 24026), (512, 24080), (527, 24155), (528, 24158), (564, 24368), (566, 24380), (593, 24494), (621, 24710), (634, 24794), (639, 24818), (641, 24827),

Gene: IMpilo_18 Start: 17430, Stop: 19967, Start Num: 46
Candidate Starts for IMpilo_18:
(40, 17418), (Start: 46 @17430 has 244 MA's), (58, 17451), (Start: 69 @17472 has 1 MA's), (82, 17511), (113, 17580), (115, 17589), (116, 17592), (123, 17610), (136, 17643), (140, 17658), (155, 17706), (188, 17817), (189, 17820), (202, 17850), (205, 17862), (206, 17865), (221, 17943), (226, 17967), (239, 18033), (250, 18078), (256, 18108), (257, 18114), (259, 18132), (267, 18156), (270, 18165), (284, 18198), (286, 18204), (293, 18234), (305, 18273), (308, 18285), (311, 18294), (315, 18309), (317, 18312), (342, 18423), (343, 18426), (344, 18435), (345, 18441), (348, 18456), (349, 18459), (354, 18480), (363, 18510), (367, 18522), (372, 18555), (393, 18666), (395, 18669), (404, 18696), (406, 18702), (416, 18756), (417, 18759), (440, 18861), (443, 18873), (444, 18876), (457, 18942), (462, 18966), (466, 18987), (468, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (497, 19125), (500, 19134), (509, 19161), (524, 19230), (527, 19248), (529, 19257), (530, 19269), (537, 19305), (542, 19335), (546, 19356), (552, 19380), (558, 19416), (565, 19470), (577, 19530), (585, 19572), (597, 19650), (608, 19707), (612, 19731), (618, 19785), (621, 19833), (630, 19875), (633, 19899), (634, 19902),

Gene: IbOuu_18 Start: 17397, Stop: 19934, Start Num: 46
Candidate Starts for IbOuu_18:
(40, 17385), (Start: 46 @17397 has 244 MA's), (58, 17418), (Start: 69 @17439 has 1 MA's), (82, 17478), (113, 17547), (115, 17556), (116, 17559), (123, 17577), (140, 17625), (155, 17673), (188, 17784), (189, 17787), (206, 17832), (221, 17910), (226, 17934), (239, 18000), (250, 18045), (256,

18075), (257, 18081), (259, 18099), (267, 18123), (270, 18132), (284, 18165), (286, 18171), (293, 18201), (305, 18240), (308, 18252), (311, 18261), (315, 18276), (317, 18279), (342, 18390), (343, 18393), (344, 18402), (345, 18408), (348, 18423), (349, 18426), (354, 18447), (363, 18477), (367, 18489), (372, 18522), (393, 18633), (395, 18636), (404, 18663), (406, 18669), (416, 18723), (417, 18726), (440, 18828), (443, 18840), (444, 18843), (457, 18909), (462, 18933), (466, 18954), (468, 18963), (482, 19023), (483, 19026), (491, 19062), (494, 19080), (500, 19101), (509, 19128), (524, 19197), (527, 19215), (529, 19224), (530, 19236), (537, 19272), (546, 19323), (550, 19341), (558, 19383), (565, 19437), (585, 19539), (608, 19674), (612, 19698), (618, 19752), (627, 19821), (633, 19866), (634, 19869),

Gene: Ibhubesi_18 Start: 17393, Stop: 19930, Start Num: 46
Candidate Starts for Ibhubesi_18:
(Start: 46 @17393 has 244 MA's), (58, 17414), (Start: 69 @17435 has 1 MA's), (82, 17474), (113, 17543), (115, 17552), (116, 17555), (123, 17573), (140, 17621), (188, 17780), (189, 17783), (206, 17828), (225, 17927), (226, 17930), (239, 17996), (256, 18071), (257, 18077), (259, 18095), (267, 18119), (269, 18125), (270, 18128), (284, 18161), (286, 18167), (293, 18197), (301, 18218), (305, 18236), (311, 18257), (336, 18365), (340, 18377), (342, 18386), (343, 18389), (344, 18398), (345, 18404), (348, 18419), (349, 18422), (354, 18443), (367, 18485), (372, 18518), (373, 18521), (386, 18584), (393, 18629), (395, 18632), (406, 18665), (416, 18719), (417, 18722), (425, 18749), (440, 18824), (443, 18836), (444, 18839), (457, 18905), (461, 18926), (462, 18929), (466, 18950), (478, 19001), (482, 19019), (483, 19022), (489, 19052), (494, 19076), (497, 19088), (500, 19097), (524, 19193), (527, 19211), (529, 19220), (530, 19232), (537, 19268), (542, 19298), (545, 19307), (546, 19319), (552, 19343), (558, 19379), (577, 19493), (585, 19535), (608, 19670), (612, 19694), (618, 19748), (621, 19796), (627, 19817), (633, 19862), (634, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 88
Candidate Starts for Icee_25:
(Start: 88 @21943 has 134 MA's), (153, 22120), (158, 22141), (212, 22288), (240, 22429), (249, 22462), (256, 22495), (263, 22531), (293, 22624), (311, 22684), (317, 22702), (335, 22783), (386, 23011), (393, 23056), (440, 23251), (441, 23257), (444, 23266), (452, 23311), (454, 23326), (491, 23482), (494, 23500), (496, 23509), (527, 23638), (528, 23641), (564, 23851), (566, 23863), (593, 23977), (621, 24193), (634, 24277), (639, 24301), (641, 24310),

Gene: Idergollasper_58 Start: 36096, Stop: 38606, Start Num: 60
Candidate Starts for Idergollasper_58:
(Start: 60 @36096 has 35 MA's), (74, 36129), (100, 36198), (101, 36201), (109, 36225), (116, 36249), (126, 36273), (136, 36306), (193, 36513), (197, 36525), (198, 36528), (231, 36675), (233, 36705), (239, 36729), (250, 36759), (251, 36762), (256, 36789), (259, 36813), (269, 36843), (290, 36900), (294, 36924), (305, 36960), (308, 36972), (315, 36996), (317, 36999), (326, 37041), (348, 37137), (349, 37140), (409, 37395), (440, 37539), (452, 37599), (465, 37671), (466, 37674), (487, 37770), (527, 37944), (530, 37965), (548, 38058), (551, 38070), (565, 38160), (581, 38235), (596, 38280), (626, 38481), (632, 38535), (637, 38550),

Gene: Imara_58 Start: 35896, Stop: 38406, Start Num: 60
Candidate Starts for Imara_58:
(Start: 60 @35896 has 35 MA's), (74, 35929), (100, 35998), (101, 36001), (109, 36025), (116, 36049), (126, 36073), (136, 36106), (193, 36313), (197, 36325), (198, 36328), (231, 36475), (233, 36505), (239, 36529), (250, 36559), (251, 36562), (256, 36589), (259, 36613), (269, 36643), (290, 36700), (294, 36724), (305, 36760), (308, 36772), (315, 36796), (317, 36799), (326, 36841), (348, 36937), (349, 36940), (409, 37195), (440, 37339), (452, 37399), (465, 37471), (466, 37474), (487, 37570), (527, 37744), (530, 37765), (548, 37858), (551, 37870), (565, 37960), (581, 38035), (596, 38080), (626, 38281), (632, 38335), (637, 38350),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 88
Candidate Starts for Inca_25:
(Start: 88 @20963 has 134 MA's), (153, 21140), (158, 21161), (212, 21308), (240, 21449), (249, 21482), (256, 21515), (263, 21551), (293, 21644), (311, 21704), (317, 21722), (346, 21854), (357, 21899), (386, 22031), (393, 22076), (411, 22136), (437, 22250), (440, 22271), (449, 22310), (452, 22331), (454, 22346), (489, 22496), (491, 22502), (494, 22520), (511, 22574), (527, 22658), (545, 22751), (593, 22997), (621, 23213), (634, 23297), (641, 23330),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 46
Candidate Starts for Inventum_18:
(Start: 46 @17532 has 244 MA's), (58, 17553), (Start: 69 @17574 has 1 MA's), (82, 17613), (113, 17682), (115, 17691), (116, 17694), (123, 17712), (140, 17760), (155, 17808), (188, 17919), (189, 17922), (206, 17967), (221, 18045), (226, 18069), (239, 18135), (256, 18210), (257, 18216), (259, 18234), (267, 18258), (270, 18267), (284, 18300), (286, 18306), (293, 18336), (301, 18357), (308, 18387), (311, 18396), (336, 18504), (340, 18516), (342, 18525), (343, 18528), (345, 18543), (348, 18558), (349, 18561), (354, 18582), (367, 18624), (372, 18657), (393, 18768), (395, 18771), (404, 18798), (406, 18804), (416, 18858), (417, 18861), (425, 18888), (440, 18963), (443, 18975), (444, 18978), (457, 19044), (461, 19065), (462, 19068), (466, 19089), (468, 19098), (478, 19140), (482, 19158), (483, 19161), (489, 19191), (494, 19215), (497, 19227), (500, 19236), (524, 19332), (527, 19350), (529, 19359), (530, 19371), (537, 19407), (542, 19437), (545, 19446), (546, 19458), (558, 19518), (565, 19572), (577, 19632), (585, 19674), (608, 19809), (612, 19833), (618, 19887), (621, 19935), (630, 19977), (633, 20001), (634, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 46
Candidate Starts for IrishSherpFalk_19:
(Start: 46 @18757 has 244 MA's), (58, 18778), (Start: 69 @18799 has 1 MA's), (82, 18838), (113, 18907), (115, 18916), (116, 18919), (123, 18937), (140, 18985), (186, 19138), (189, 19147), (206, 19192), (225, 19291), (226, 19294), (239, 19360), (256, 19435), (257, 19441), (259, 19459), (267, 19483), (269, 19489), (270, 19492), (284, 19525), (286, 19531), (293, 19561), (301, 19582), (308, 19612), (311, 19621), (315, 19636), (317, 19639), (342, 19750), (343, 19753), (344, 19762), (345, 19768), (348, 19783), (349, 19786), (354, 19807), (363, 19837), (367, 19849), (372, 19882), (393, 19993), (395, 19996), (404, 20023), (406, 20029), (416, 20083), (417, 20086), (438, 20173), (440, 20188), (443, 20200), (444, 20203), (457, 20269), (462, 20293), (466, 20314), (468, 20323), (482, 20383), (483, 20386), (491, 20422), (494, 20440), (497, 20452), (500, 20461), (509, 20488), (522, 20545), (524, 20557), (527, 20575), (529, 20584), (530, 20596), (537, 20632), (542, 20662), (545, 20671), (546, 20683), (558, 20743), (565, 20797), (577, 20857), (585, 20899), (608, 21034), (612, 21058), (618, 21112), (621, 21160), (630, 21202), (633, 21226), (634, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 56
Candidate Starts for Island3_21:
(Start: 56 @19089 has 2 MA's), (65, 19113), (105, 19224), (108, 19233), (116, 19260), (159, 19407), (225, 19674), (231, 19689), (233, 19719), (234, 19725), (239, 19743), (267, 19851), (286, 19902), (317, 20013), (318, 20016), (326, 20055), (335, 20088), (349, 20154), (367, 20214), (371, 20241), (372, 20247), (440, 20553), (452, 20613), (460, 20661), (461, 20664), (465, 20685), (466, 20688), (527, 20949), (550, 21072), (551, 21075), (565, 21165), (576, 21222), (581, 21243), (599, 21303), (628, 21504), (632, 21546),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 32
Candidate Starts for Jabbawokkie_26:
(29, 17607), (Start: 32 @17616 has 7 MA's), (Start: 46 @17676 has 244 MA's), (64, 17712), (107, 17811), (155, 17952), (174, 17991), (179, 18006), (189, 18042), (190, 18048), (191, 18051), (204, 18069), (209, 18093), (214, 18117), (215, 18120), (247, 18264), (250, 18273), (256, 18297), (259, 18321), (267, 18345), (269, 18351), (277, 18372), (278, 18375), (286, 18393), (293, 18426), (303,

18456), (308, 18477), (333, 18570), (335, 18585), (336, 18594), (342, 18615), (343, 18618), (350, 18660), (363, 18702), (364, 18705), (367, 18714), (371, 18741), (373, 18750), (380, 18789), (384, 18810), (386, 18813), (392, 18849), (399, 18870), (416, 18948), (417, 18951), (433, 19005), (443, 19065), (460, 19152), (462, 19158), (466, 19179), (475, 19215), (486, 19269), (489, 19278), (507, 19356), (512, 19374), (519, 19410), (520, 19413), (524, 19431), (527, 19449), (537, 19506), (539, 19518), (552, 19581), (558, 19614), (569, 19701), (580, 19749), (584, 19773), (593, 19809), (596, 19848), (604, 19887), (608, 19911), (611, 19932), (621, 20028), (627, 20049), (635, 20109), (637, 20112), (641, 20139),

Gene: JacoRen57_20 Start: 18844, Stop: 20730, Start Num: 243
Candidate Starts for JacoRen57_20:
(Start: 243 @18844 has 1 MA's), (262, 18928), (309, 19060), (330, 19135), (338, 19171), (341, 19174), (365, 19261), (368, 19279), (374, 19306), (383, 19363), (407, 19462), (424, 19543), (436, 19588), (445, 19633), (453, 19684), (454, 19693), (468, 19762), (478, 19816), (490, 19876), (509, 19960), (515, 19996), (521, 20017), (523, 20023), (524, 20032), (530, 20071), (552, 20182), (553, 20203), (561, 20266), (562, 20269), (568, 20311), (578, 20350), (633, 20665), (635, 20671), (638, 20680), (640, 20695), (642, 20704), (647, 20719),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 46
Candidate Starts for JalFarm20_20:
(40, 17755), (Start: 46 @17767 has 244 MA's), (58, 17788), (Start: 69 @17809 has 1 MA's), (82, 17848), (113, 17917), (115, 17926), (116, 17929), (123, 17947), (136, 17980), (140, 17995), (155, 18043), (188, 18154), (189, 18157), (202, 18187), (205, 18199), (206, 18202), (221, 18280), (226, 18304), (239, 18370), (250, 18415), (256, 18445), (257, 18451), (259, 18469), (267, 18493), (270, 18502), (284, 18535), (286, 18541), (293, 18571), (305, 18610), (308, 18622), (311, 18631), (315, 18646), (317, 18649), (342, 18760), (343, 18763), (344, 18772), (345, 18778), (348, 18793), (349, 18796), (354, 18817), (363, 18847), (367, 18859), (372, 18892), (393, 19003), (395, 19006), (404, 19033), (406, 19039), (416, 19093), (417, 19096), (438, 19183), (440, 19198), (443, 19210), (444, 19213), (457, 19279), (462, 19303), (466, 19324), (468, 19333), (482, 19393), (483, 19396), (491, 19432), (494, 19450), (497, 19462), (500, 19471), (509, 19498), (524, 19567), (527, 19585), (529, 19594), (530, 19606), (537, 19642), (542, 19672), (546, 19693), (552, 19717), (558, 19753), (565, 19807), (577, 19867), (585, 19909), (597, 19987), (608, 20044), (612, 20068), (618, 20122), (621, 20170), (630, 20212), (633, 20236), (634, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 46
Candidate Starts for James_18:
(Start: 46 @17397 has 244 MA's), (58, 17418), (66, 17439), (83, 17478), (113, 17547), (115, 17556), (116, 17559), (123, 17577), (140, 17625), (155, 17673), (188, 17784), (189, 17787), (203, 17820), (206, 17832), (221, 17910), (233, 17976), (240, 18009), (253, 18063), (256, 18075), (269, 18129), (270, 18132), (272, 18141), (287, 18174), (299, 18213), (301, 18216), (304, 18231), (305, 18234), (313, 18261), (314, 18267), (315, 18270), (317, 18273), (323, 18300), (327, 18318), (328, 18321), (344, 18396), (348, 18417), (349, 18420), (356, 18447), (363, 18471), (372, 18516), (373, 18519), (382, 18570), (395, 18633), (399, 18642), (405, 18666), (431, 18771), (432, 18774), (440, 18825), (441, 18831), (443, 18837), (444, 18840), (452, 18885), (454, 18900), (461, 18927), (466, 18951), (478, 19002), (482, 19020), (483, 19023), (484, 19035), (497, 19089), (527, 19212), (538, 19275), (550, 19338), (560, 19413), (599, 19614), (629, 19824), (636, 19863), (637, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 60
Candidate Starts for JangDynasty_58:
(Start: 60 @36182 has 35 MA's), (74, 36215), (100, 36284), (101, 36287), (109, 36311), (116, 36335), (126, 36359), (136, 36392), (193, 36599), (197, 36611), (198, 36614), (231, 36761), (233, 36791), (239, 36815), (250, 36845), (251, 36848), (256, 36875), (259, 36899), (269, 36929), (290, 36986), (294, 37010), (305, 37046), (308, 37058), (315, 37082), (317, 37085), (326, 37127), (348, 37223),

(349, 37226), (409, 37481), (440, 37625), (452, 37685), (465, 37757), (466, 37760), (487, 37856), (527, 38030), (530, 38051), (548, 38144), (551, 38156), (565, 38246), (581, 38321), (596, 38366), (626, 38567), (632, 38621), (637, 38636),

Gene: Jant_18 Start: 17553, Stop: 20090, Start Num: 46
Candidate Starts for Jant_18:
(40, 17541), (Start: 46 @17553 has 244 MA's), (58, 17574), (Start: 69 @17595 has 1 MA's), (82, 17634), (113, 17703), (115, 17712), (116, 17715), (123, 17733), (136, 17766), (140, 17781), (155, 17829), (186, 17934), (188, 17940), (189, 17943), (202, 17973), (205, 17985), (206, 17988), (221, 18066), (226, 18090), (239, 18156), (250, 18201), (256, 18231), (257, 18237), (259, 18255), (267, 18279), (270, 18288), (284, 18321), (286, 18327), (293, 18357), (305, 18396), (308, 18408), (311, 18417), (315, 18432), (317, 18435), (342, 18546), (343, 18549), (344, 18558), (345, 18564), (348, 18579), (349, 18582), (354, 18603), (363, 18633), (367, 18645), (372, 18678), (393, 18789), (395, 18792), (404, 18819), (406, 18825), (416, 18879), (417, 18882), (440, 18984), (443, 18996), (444, 18999), (457, 19065), (462, 19089), (466, 19110), (468, 19119), (482, 19179), (483, 19182), (491, 19218), (494, 19236), (497, 19248), (500, 19257), (509, 19284), (524, 19353), (527, 19371), (529, 19380), (530, 19392), (537, 19428), (542, 19458), (546, 19479), (552, 19503), (558, 19539), (565, 19593), (577, 19653), (585, 19695), (608, 19830), (612, 19854), (621, 19956), (630, 19998), (633, 20022), (634, 20025),

Gene: Jarcob_18 Start: 17405, Stop: 19957, Start Num: 46
Candidate Starts for Jarcob_18:
(Start: 46 @17405 has 244 MA's), (83, 17486), (113, 17555), (115, 17564), (116, 17567), (123, 17585), (140, 17633), (154, 17678), (188, 17792), (189, 17795), (192, 17807), (203, 17828), (205, 17837), (206, 17840), (215, 17888), (221, 17918), (233, 17984), (240, 18017), (250, 18053), (254, 18077), (269, 18137), (270, 18140), (277, 18158), (299, 18221), (301, 18224), (305, 18242), (311, 18263), (317, 18281), (323, 18308), (328, 18329), (335, 18362), (344, 18404), (345, 18410), (346, 18413), (349, 18428), (356, 18455), (357, 18458), (363, 18479), (367, 18491), (372, 18524), (390, 18617), (416, 18725), (422, 18749), (425, 18755), (430, 18773), (431, 18776), (435, 18800), (440, 18830), (446, 18854), (452, 18890), (453, 18896), (454, 18905), (461, 18932), (474, 18995), (478, 19019), (479, 19034), (489, 19076), (502, 19127), (525, 19223), (527, 19238), (529, 19247), (533, 19271), (545, 19334), (552, 19370), (606, 19676), (612, 19721), (621, 19823),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 88
Candidate Starts for JeTaime_28:
(Start: 88 @23085 has 134 MA's), (153, 23262), (158, 23283), (212, 23430), (249, 23604), (256, 23637), (263, 23673), (293, 23766), (311, 23826), (317, 23844), (346, 23976), (357, 24021), (386, 24153), (393, 24198), (411, 24258), (437, 24372), (440, 24393), (449, 24432), (452, 24453), (454, 24468), (489, 24618), (491, 24624), (494, 24642), (511, 24696), (527, 24780), (545, 24873), (593, 25119), (621, 25335), (634, 25419), (641, 25452),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 46
Candidate Starts for Jinglebell_17:
(Start: 46 @17634 has 244 MA's), (58, 17655), (Start: 69 @17676 has 1 MA's), (82, 17715), (113, 17784), (115, 17793), (116, 17796), (123, 17814), (140, 17862), (188, 18021), (189, 18024), (205, 18066), (206, 18069), (221, 18147), (225, 18168), (226, 18171), (239, 18237), (240, 18246), (250, 18282), (256, 18312), (257, 18318), (267, 18360), (269, 18366), (270, 18369), (284, 18402), (286, 18408), (293, 18438), (301, 18459), (308, 18489), (311, 18498), (336, 18606), (340, 18618), (342, 18627), (343, 18630), (344, 18639), (345, 18645), (348, 18660), (349, 18663), (354, 18684), (367, 18726), (372, 18759), (404, 18900), (406, 18906), (416, 18960), (417, 18963), (425, 18990), (440, 19065), (443, 19077), (444, 19080), (457, 19146), (461, 19167), (462, 19170), (466, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (497, 19329), (524, 19434), (527, 19452), (529, 19461), (530, 19473), (537, 19509), (542, 19539), (546, 19560), (552, 19584), (558,

19620), (577, 19734), (585, 19776), (597, 19854), (608, 19911), (612, 19935), (618, 19989), (621, 20037), (630, 20079), (633, 20103), (634, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 46
Candidate Starts for Job42_21:
(Start: 46 @19082 has 244 MA's), (Start: 69 @19124 has 1 MA's), (90, 19172), (113, 19232), (115, 19241), (116, 19244), (123, 19262), (136, 19295), (140, 19310), (155, 19358), (188, 19469), (189, 19472), (202, 19502), (205, 19514), (206, 19517), (221, 19595), (226, 19619), (239, 19685), (250, 19730), (256, 19760), (257, 19766), (259, 19784), (267, 19808), (270, 19817), (284, 19850), (286, 19856), (293, 19886), (305, 19925), (308, 19937), (311, 19946), (315, 19961), (317, 19964), (342, 20075), (343, 20078), (344, 20087), (345, 20093), (348, 20108), (349, 20111), (354, 20132), (363, 20162), (367, 20174), (372, 20207), (393, 20318), (395, 20321), (404, 20348), (406, 20354), (416, 20408), (417, 20411), (440, 20513), (443, 20525), (444, 20528), (457, 20594), (462, 20618), (466, 20639), (468, 20648), (482, 20708), (483, 20711), (491, 20747), (494, 20765), (497, 20777), (500, 20786), (509, 20813), (524, 20882), (527, 20900), (529, 20909), (530, 20921), (537, 20957), (542, 20987), (546, 21008), (552, 21032), (558, 21068), (565, 21122), (577, 21182), (585, 21224), (597, 21302), (608, 21359), (612, 21383), (618, 21437), (621, 21485), (630, 21527), (633, 21551), (634, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 46
Candidate Starts for JoeyJr_18:
(40, 17556), (Start: 46 @17568 has 244 MA's), (58, 17589), (Start: 69 @17610 has 1 MA's), (82, 17649), (113, 17718), (115, 17727), (116, 17730), (123, 17748), (140, 17796), (155, 17844), (188, 17955), (189, 17958), (206, 18003), (221, 18081), (226, 18105), (239, 18171), (250, 18216), (256, 18246), (257, 18252), (259, 18270), (267, 18294), (270, 18303), (284, 18336), (286, 18342), (293, 18372), (305, 18411), (308, 18423), (311, 18432), (315, 18447), (317, 18450), (342, 18561), (343, 18564), (344, 18573), (345, 18579), (348, 18594), (349, 18597), (354, 18618), (363, 18648), (367, 18660), (372, 18693), (393, 18804), (395, 18807), (404, 18834), (406, 18840), (416, 18894), (417, 18897), (440, 18999), (443, 19011), (444, 19014), (457, 19080), (462, 19104), (466, 19125), (468, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (500, 19272), (509, 19299), (524, 19368), (527, 19386), (529, 19395), (530, 19407), (537, 19443), (546, 19494), (550, 19512), (558, 19554), (565, 19608), (585, 19710), (608, 19845), (612, 19869), (618, 19923), (627, 19992), (633, 20037), (634, 20040),

Gene: Jolie2_22 Start: 19776, Stop: 22241, Start Num: 49
Candidate Starts for Jolie2_22:
(27, 19692), (30, 19707), (Start: 36 @19728 has 2 MA's), (Start: 49 @19776 has 12 MA's), (95, 19884), (104, 19905), (115, 19938), (211, 20241), (256, 20433), (267, 20484), (285, 20529), (311, 20628), (314, 20640), (317, 20646), (333, 20712), (335, 20727), (346, 20778), (375, 20898), (376, 20907), (416, 21105), (421, 21141), (431, 21180), (454, 21309), (464, 21354), (478, 21405), (490, 21465), (499, 21510), (529, 21621), (534, 21648), (550, 21747), (551, 21750), (564, 21843), (571, 21885), (592, 21990), (619, 22179), (622, 22221),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 46
Candidate Starts for Juice456_20:
(40, 18507), (Start: 46 @18519 has 244 MA's), (58, 18540), (Start: 69 @18561 has 1 MA's), (82, 18600), (113, 18669), (115, 18678), (116, 18681), (123, 18699), (136, 18732), (140, 18747), (155, 18795), (188, 18906), (189, 18909), (202, 18939), (205, 18951), (206, 18954), (221, 19032), (226, 19056), (239, 19122), (250, 19167), (256, 19197), (257, 19203), (259, 19221), (267, 19245), (270, 19254), (284, 19287), (286, 19293), (293, 19323), (305, 19362), (308, 19374), (311, 19383), (315, 19398), (317, 19401), (342, 19512), (343, 19515), (344, 19524), (345, 19530), (348, 19545), (349, 19548), (354, 19569), (363, 19599), (367, 19611), (372, 19644), (393, 19755), (395, 19758), (404, 19785), (406, 19791), (416, 19845), (417, 19848), (438, 19935), (440, 19950), (443, 19962), (444,

19965), (457, 20031), (462, 20055), (466, 20076), (468, 20085), (478, 20127), (482, 20145), (483, 20148), (491, 20184), (494, 20202), (497, 20214), (500, 20223), (509, 20250), (524, 20319), (527, 20337), (529, 20346), (530, 20358), (537, 20394), (542, 20424), (546, 20445), (552, 20469), (558, 20505), (565, 20559), (577, 20619), (585, 20661), (597, 20739), (608, 20796), (612, 20820), (618, 20874), (621, 20922), (630, 20964), (633, 20988), (634, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 46
Candidate Starts for Juniper1_18:
(Start: 46 @17394 has 244 MA's), (58, 17415), (Start: 69 @17436 has 1 MA's), (82, 17475), (113, 17544), (115, 17553), (116, 17556), (123, 17574), (136, 17607), (140, 17622), (188, 17781), (189, 17784), (206, 17829), (221, 17907), (226, 17931), (239, 17997), (256, 18072), (257, 18078), (267, 18120), (269, 18126), (270, 18129), (284, 18162), (286, 18168), (293, 18198), (301, 18219), (308, 18249), (311, 18258), (336, 18366), (340, 18378), (342, 18387), (343, 18390), (344, 18399), (345, 18405), (348, 18420), (349, 18423), (354, 18444), (367, 18486), (372, 18519), (393, 18630), (395, 18633), (404, 18660), (406, 18666), (416, 18720), (417, 18723), (425, 18750), (428, 18759), (440, 18825), (443, 18837), (444, 18840), (457, 18906), (461, 18927), (462, 18930), (466, 18951), (478, 19002), (482, 19020), (483, 19023), (489, 19053), (494, 19077), (497, 19089), (500, 19098), (524, 19194), (527, 19212), (529, 19221), (530, 19233), (537, 19269), (542, 19299), (546, 19320), (552, 19344), (558, 19380), (577, 19494), (585, 19536), (608, 19671), (612, 19695), (618, 19749), (627, 19818), (633, 19863), (634, 19866), (636, 19872),

Gene: KandZ_30 Start: 24416, Stop: 26686, Start Num: 157
Candidate Starts for KandZ_30:
(Start: 157 @24416 has 22 MA's), (196, 24551), (199, 24560), (233, 24734), (234, 24740), (237, 24752), (273, 24905), (282, 24920), (288, 24935), (382, 25316), (383, 25322), (391, 25367), (412, 25454), (455, 25655), (456, 25661), (466, 25709), (472, 25739), (476, 25763), (515, 25952), (523, 25979), (530, 26027), (544, 26099), (552, 26138), (553, 26159), (556, 26174), (559, 26192), (561, 26222), (578, 26306), (616, 26507), (621, 26549), (647, 26675),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 88
Candidate Starts for Kanye_28:
(Start: 88 @23270 has 134 MA's), (153, 23447), (158, 23468), (212, 23615), (240, 23756), (249, 23789), (256, 23822), (263, 23858), (293, 23951), (311, 24011), (317, 24029), (346, 24161), (357, 24206), (386, 24338), (393, 24383), (411, 24443), (437, 24557), (440, 24578), (449, 24617), (452, 24638), (454, 24653), (489, 24803), (491, 24809), (494, 24827), (511, 24881), (527, 24965), (545, 25058), (593, 25304), (621, 25520), (634, 25604), (641, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 46
Candidate Starts for Karhdo_18:
(40, 17516), (Start: 46 @17528 has 244 MA's), (58, 17549), (Start: 69 @17570 has 1 MA's), (82, 17609), (113, 17678), (115, 17687), (116, 17690), (123, 17708), (136, 17741), (140, 17756), (155, 17804), (188, 17915), (189, 17918), (202, 17948), (205, 17960), (206, 17963), (221, 18041), (226, 18065), (239, 18131), (250, 18176), (256, 18206), (257, 18212), (259, 18230), (267, 18254), (270, 18263), (284, 18296), (286, 18302), (293, 18332), (305, 18371), (308, 18383), (311, 18392), (315, 18407), (317, 18410), (342, 18521), (343, 18524), (344, 18533), (345, 18539), (348, 18554), (349, 18557), (354, 18578), (363, 18608), (367, 18620), (372, 18653), (393, 18764), (395, 18767), (404, 18794), (406, 18800), (416, 18854), (417, 18857), (438, 18944), (440, 18959), (443, 18971), (444, 18974), (457, 19040), (462, 19064), (466, 19085), (468, 19094), (478, 19136), (482, 19154), (483, 19157), (489, 19187), (494, 19211), (497, 19223), (500, 19232), (524, 19328), (527, 19346), (529, 19355), (530, 19367), (537, 19403), (542, 19433), (545, 19442), (546, 19454), (558, 19514), (565, 19568), (577, 19628), (585, 19670), (608, 19805), (612, 19829), (618, 19883), (621, 19931), (630, 19973), (633, 19997), (634, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 46
Candidate Starts for KashFlow_30:
(Start: 46 @26008 has 244 MA's), (123, 26203), (136, 26239), (140, 26254), (174, 26341), (179, 26356), (189, 26392), (190, 26398), (206, 26431), (209, 26443), (247, 26614), (250, 26623), (256, 26647), (269, 26701), (284, 26737), (286, 26743), (293, 26773), (303, 26803), (308, 26824), (311, 26833), (315, 26848), (333, 26917), (349, 26998), (350, 27007), (357, 27028), (358, 27031), (367, 27061), (373, 27097), (382, 27148), (384, 27157), (386, 27160), (390, 27187), (392, 27196), (399, 27217), (416, 27295), (417, 27298), (435, 27370), (441, 27406), (443, 27412), (451, 27454), (452, 27460), (461, 27502), (462, 27505), (466, 27526), (467, 27532), (468, 27535), (475, 27565), (507, 27706), (511, 27715), (512, 27724), (518, 27757), (524, 27781), (525, 27784), (527, 27799), (530, 27820), (537, 27856), (538, 27862), (539, 27868), (543, 27889), (548, 27916), (569, 28051), (584, 28123), (586, 28129), (593, 28147), (608, 28246), (621, 28363), (635, 28444), (637, 28447), (641, 28474),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 46
Candidate Starts for Kenuha5_18:
(41, 17511), (Start: 46 @17523 has 244 MA's), (58, 17544), (Start: 69 @17565 has 1 MA's), (84, 17604), (113, 17673), (115, 17682), (116, 17685), (123, 17703), (136, 17736), (149, 17769), (155, 17802), (179, 17856), (189, 17892), (190, 17898), (191, 17901), (204, 17919), (206, 17931), (209, 17943), (214, 17967), (229, 18030), (247, 18114), (250, 18123), (256, 18147), (259, 18171), (267, 18195), (269, 18201), (277, 18222), (286, 18243), (293, 18273), (303, 18303), (308, 18324), (333, 18417), (335, 18432), (336, 18441), (342, 18462), (343, 18465), (363, 18549), (364, 18552), (367, 18561), (371, 18588), (373, 18597), (380, 18636), (384, 18657), (386, 18660), (392, 18696), (399, 18717), (416, 18795), (417, 18798), (433, 18852), (443, 18912), (462, 19005), (465, 19023), (466, 19026), (475, 19062), (486, 19116), (489, 19125), (507, 19203), (512, 19221), (519, 19257), (520, 19260), (524, 19278), (525, 19281), (527, 19296), (530, 19317), (537, 19353), (539, 19365), (552, 19428), (558, 19461), (569, 19548), (580, 19596), (584, 19620), (590, 19647), (593, 19656), (596, 19695), (604, 19734), (608, 19758), (611, 19779), (621, 19875), (627, 19896), (637, 19959), (641, 19986), (644, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 46
Candidate Starts for Kersh_19:
(Start: 46 @17568 has 244 MA's), (58, 17589), (Start: 69 @17610 has 1 MA's), (84, 17649), (113, 17718), (115, 17727), (116, 17730), (123, 17748), (136, 17781), (149, 17814), (155, 17847), (179, 17901), (189, 17937), (191, 17946), (204, 17964), (209, 17988), (214, 18012), (235, 18120), (240, 18144), (247, 18159), (250, 18168), (256, 18192), (257, 18198), (259, 18216), (263, 18228), (265, 18234), (267, 18240), (269, 18246), (270, 18249), (272, 18258), (277, 18267), (284, 18282), (293, 18318), (305, 18357), (308, 18369), (311, 18378), (333, 18462), (349, 18543), (350, 18552), (358, 18576), (367, 18606), (373, 18642), (382, 18693), (384, 18702), (386, 18705), (392, 18741), (399, 18762), (416, 18840), (417, 18843), (433, 18897), (443, 18957), (460, 19044), (462, 19050), (466, 19071), (475, 19107), (486, 19161), (489, 19170), (507, 19248), (512, 19266), (519, 19302), (520, 19305), (524, 19323), (527, 19341), (537, 19398), (539, 19410), (552, 19473), (558, 19506), (569, 19593), (580, 19641), (584, 19665), (590, 19692), (593, 19701), (596, 19740), (604, 19779), (608, 19803), (611, 19824), (621, 19920), (627, 19941), (635, 20001), (637, 20004), (641, 20031),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 46
Candidate Starts for Kimberlium_20:
(40, 18507), (Start: 46 @18519 has 244 MA's), (58, 18540), (Start: 69 @18561 has 1 MA's), (82, 18600), (113, 18669), (115, 18678), (116, 18681), (123, 18699), (136, 18732), (140, 18747), (155, 18795), (188, 18906), (189, 18909), (202, 18939), (205, 18951), (206, 18954), (221, 19032), (226, 19056), (239, 19122), (250, 19167), (256, 19197), (257, 19203), (259, 19221), (267, 19245), (270, 19254), (284, 19287), (286, 19293), (293, 19323), (305, 19362), (308, 19374), (311, 19383), (315, 19398), (317, 19401), (342, 19512), (343, 19515), (344, 19524), (345, 19530), (348, 19545), (349,

19548), (354, 19569), (363, 19599), (367, 19611), (372, 19644), (393, 19755), (395, 19758), (404, 19785), (406, 19791), (416, 19845), (417, 19848), (438, 19935), (440, 19950), (443, 19962), (444, 19965), (457, 20031), (462, 20055), (466, 20076), (468, 20085), (478, 20127), (482, 20145), (483, 20148), (491, 20184), (494, 20202), (497, 20214), (500, 20223), (509, 20250), (524, 20319), (527, 20337), (529, 20346), (530, 20358), (537, 20394), (542, 20424), (546, 20445), (552, 20469), (558, 20505), (565, 20559), (577, 20619), (585, 20661), (597, 20739), (608, 20796), (612, 20820), (618, 20874), (621, 20922), (630, 20964), (633, 20988), (634, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 88
Candidate Starts for Kimchi_28:
(Start: 88 @22277 has 134 MA's), (153, 22454), (158, 22475), (212, 22622), (240, 22763), (249, 22796), (256, 22829), (263, 22865), (293, 22958), (311, 23018), (317, 23036), (346, 23168), (357, 23213), (386, 23345), (393, 23390), (411, 23450), (437, 23564), (440, 23585), (449, 23624), (452, 23645), (454, 23660), (489, 23810), (491, 23816), (494, 23834), (511, 23888), (527, 23972), (545, 24065), (593, 24311), (621, 24527), (634, 24611), (641, 24644),

Gene: KingJulian_18 Start: 17437, Stop: 19974, Start Num: 46
Candidate Starts for KingJulian_18:
(40, 17425), (Start: 46 @17437 has 244 MA's), (58, 17458), (Start: 69 @17479 has 1 MA's), (82, 17518), (113, 17587), (115, 17596), (116, 17599), (123, 17617), (136, 17650), (140, 17665), (155, 17713), (188, 17824), (189, 17827), (202, 17857), (205, 17869), (206, 17872), (221, 17950), (226, 17974), (239, 18040), (250, 18085), (256, 18115), (257, 18121), (259, 18139), (267, 18163), (270, 18172), (284, 18205), (286, 18211), (293, 18241), (305, 18280), (308, 18292), (311, 18301), (315, 18316), (317, 18319), (342, 18430), (343, 18433), (344, 18442), (345, 18448), (348, 18463), (349, 18466), (354, 18487), (363, 18517), (367, 18529), (372, 18562), (393, 18673), (395, 18676), (404, 18703), (406, 18709), (416, 18763), (417, 18766), (438, 18853), (440, 18868), (443, 18880), (444, 18883), (457, 18949), (462, 18973), (466, 18994), (468, 19003), (482, 19063), (483, 19066), (491, 19102), (494, 19120), (497, 19132), (500, 19141), (509, 19168), (524, 19237), (527, 19255), (529, 19264), (530, 19276), (537, 19312), (542, 19342), (546, 19363), (552, 19387), (558, 19423), (565, 19477), (577, 19537), (585, 19579), (597, 19657), (608, 19714), (612, 19738), (618, 19792), (621, 19840), (630, 19882), (633, 19906), (634, 19909),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 46
Candidate Starts for KingMidas_19:
(40, 18689), (Start: 46 @18701 has 244 MA's), (58, 18722), (Start: 69 @18743 has 1 MA's), (82, 18782), (113, 18851), (115, 18860), (116, 18863), (123, 18881), (140, 18929), (155, 18977), (188, 19088), (189, 19091), (206, 19136), (221, 19214), (226, 19238), (239, 19304), (250, 19349), (256, 19379), (257, 19385), (259, 19403), (267, 19427), (270, 19436), (284, 19469), (286, 19475), (293, 19505), (305, 19544), (308, 19556), (311, 19565), (315, 19580), (317, 19583), (342, 19694), (343, 19697), (344, 19706), (345, 19712), (348, 19727), (349, 19730), (354, 19751), (363, 19781), (367, 19793), (372, 19826), (393, 19937), (395, 19940), (404, 19967), (406, 19973), (416, 20027), (417, 20030), (440, 20132), (443, 20144), (444, 20147), (457, 20213), (462, 20237), (466, 20258), (468, 20267), (482, 20327), (483, 20330), (491, 20366), (494, 20384), (500, 20405), (509, 20432), (524, 20501), (527, 20519), (529, 20528), (530, 20540), (537, 20576), (546, 20627), (550, 20645), (558, 20687), (565, 20741), (585, 20843), (608, 20978), (612, 21002), (618, 21056), (627, 21125), (633, 21170), (634, 21173),

Gene: KingPhillip3_58 Start: 36111, Stop: 38621, Start Num: 60
Candidate Starts for KingPhillip3_58:
(Start: 60 @36111 has 35 MA's), (74, 36144), (100, 36213), (101, 36216), (109, 36240), (116, 36264), (126, 36288), (136, 36321), (193, 36528), (197, 36540), (198, 36543), (231, 36690), (233, 36720), (239, 36744), (250, 36774), (251, 36777), (256, 36804), (259, 36828), (269, 36858), (290, 36915), (294, 36939), (305, 36975), (308, 36987), (315, 37011), (317, 37014), (326, 37056), (348, 37152),

(349, 37155), (409, 37410), (440, 37554), (452, 37614), (465, 37686), (466, 37689), (487, 37785), (527, 37959), (530, 37980), (548, 38073), (551, 38085), (565, 38175), (581, 38250), (596, 38295), (626, 38496), (632, 38550), (637, 38565),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 46
Candidate Starts for Kingsley_19:
(41, 17241), (Start: 46 @17253 has 244 MA's), (58, 17274), (Start: 69 @17295 has 1 MA's), (84, 17334), (113, 17403), (115, 17412), (116, 17415), (123, 17433), (136, 17466), (140, 17481), (174, 17568), (179, 17583), (189, 17619), (190, 17625), (206, 17658), (209, 17670), (247, 17841), (250, 17850), (256, 17874), (269, 17928), (284, 17964), (286, 17970), (293, 18000), (303, 18030), (308, 18051), (311, 18060), (333, 18144), (345, 18207), (349, 18225), (350, 18234), (357, 18255), (358, 18258), (363, 18276), (367, 18288), (371, 18315), (373, 18324), (382, 18375), (384, 18384), (386, 18387), (390, 18414), (392, 18423), (399, 18444), (416, 18522), (417, 18525), (441, 18633), (443, 18639), (452, 18687), (461, 18729), (462, 18732), (466, 18753), (467, 18759), (468, 18762), (475, 18792), (507, 18933), (512, 18951), (518, 18984), (524, 19008), (525, 19011), (527, 19026), (530, 19047), (537, 19083), (538, 19089), (543, 19116), (548, 19143), (569, 19278), (580, 19326), (584, 19350), (586, 19356), (593, 19374), (608, 19473), (611, 19494), (613, 19512), (621, 19590), (627, 19611), (637, 19674), (639, 19692), (644, 19710),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 16
Candidate Starts for Konstantine_34:
(Start: 16 @26883 has 10 MA's), (25, 27015), (26, 27027), (28, 27036), (42, 27105), (72, 27171), (78, 27192), (96, 27240), (111, 27282), (118, 27306), (131, 27339), (142, 27375), (148, 27387), (173, 27480), (189, 27537), (201, 27576), (240, 27771), (248, 27801), (257, 27843), (301, 27984), (305, 28002), (326, 28083), (335, 28122), (340, 28143), (372, 28281), (379, 28320), (392, 28383), (417, 28485), (465, 28710), (543, 29073), (548, 29100), (594, 29343), (595, 29376), (600, 29400), (617, 29520), (628, 29598), (641, 29685), (646, 29700), (648, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 88
Candidate Starts for Kostya_26:
(Start: 88 @22283 has 134 MA's), (153, 22460), (158, 22481), (212, 22628), (240, 22769), (249, 22802), (256, 22835), (263, 22871), (293, 22964), (311, 23024), (317, 23042), (335, 23123), (386, 23351), (393, 23396), (440, 23591), (441, 23597), (444, 23606), (452, 23651), (454, 23666), (491, 23822), (494, 23840), (496, 23849), (527, 23978), (528, 23981), (564, 24191), (566, 24203), (593, 24317), (621, 24533), (634, 24617), (639, 24641), (641, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 46
Candidate Starts for Krakatau_19:
(Start: 46 @18095 has 244 MA's), (58, 18116), (Start: 69 @18137 has 1 MA's), (82, 18176), (113, 18245), (115, 18254), (116, 18257), (123, 18275), (136, 18308), (140, 18323), (155, 18371), (188, 18482), (189, 18485), (202, 18515), (205, 18527), (206, 18530), (226, 18632), (239, 18698), (250, 18743), (256, 18773), (257, 18779), (259, 18797), (267, 18821), (270, 18830), (284, 18863), (286, 18869), (293, 18899), (305, 18938), (308, 18950), (311, 18959), (315, 18974), (318, 18980), (342, 19088), (343, 19091), (344, 19100), (345, 19106), (348, 19121), (349, 19124), (354, 19145), (363, 19175), (367, 19187), (372, 19220), (393, 19331), (395, 19334), (404, 19361), (406, 19367), (416, 19421), (417, 19424), (440, 19526), (443, 19538), (444, 19541), (457, 19607), (462, 19631), (466, 19652), (468, 19661), (482, 19721), (483, 19724), (491, 19760), (494, 19778), (497, 19790), (500, 19799), (509, 19826), (524, 19895), (527, 19913), (529, 19922), (530, 19934), (537, 19970), (542, 20000), (546, 20021), (552, 20045), (558, 20081), (565, 20135), (577, 20195), (585, 20237), (597, 20315), (608, 20372), (612, 20396), (618, 20450), (621, 20498), (633, 20564), (634, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 60
Candidate Starts for Krili_57:

(Start: 60 @35606 has 35 MA's), (74, 35639), (100, 35708), (101, 35711), (109, 35735), (116, 35759), (126, 35783), (136, 35816), (193, 36023), (197, 36035), (198, 36038), (231, 36185), (233, 36215), (239, 36239), (250, 36269), (251, 36272), (256, 36299), (259, 36323), (269, 36353), (290, 36410), (294, 36434), (305, 36470), (308, 36482), (315, 36506), (317, 36509), (326, 36551), (348, 36647), (349, 36650), (409, 36905), (440, 37049), (452, 37109), (465, 37181), (466, 37184), (487, 37280), (527, 37454), (530, 37475), (548, 37568), (551, 37580), (565, 37670), (581, 37745), (596, 37790), (626, 37991), (632, 38045), (637, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 46
Candidate Starts for KristaRAM_19:
(40, 18058), (Start: 46 @18070 has 244 MA's), (58, 18091), (Start: 69 @18112 has 1 MA's), (82, 18151), (113, 18220), (115, 18229), (116, 18232), (123, 18250), (136, 18283), (140, 18298), (155, 18346), (188, 18457), (189, 18460), (202, 18490), (205, 18502), (206, 18505), (221, 18583), (226, 18607), (239, 18673), (250, 18718), (256, 18748), (257, 18754), (259, 18772), (267, 18796), (270, 18805), (284, 18838), (286, 18844), (293, 18874), (305, 18913), (308, 18925), (311, 18934), (315, 18949), (317, 18952), (342, 19063), (343, 19066), (344, 19075), (345, 19081), (348, 19096), (349, 19099), (354, 19120), (363, 19150), (367, 19162), (372, 19195), (393, 19306), (395, 19309), (404, 19336), (406, 19342), (416, 19396), (417, 19399), (438, 19486), (440, 19501), (443, 19513), (444, 19516), (457, 19582), (462, 19606), (466, 19627), (468, 19636), (482, 19696), (483, 19699), (491, 19735), (494, 19753), (497, 19765), (500, 19774), (509, 19801), (524, 19870), (527, 19888), (529, 19897), (530, 19909), (537, 19945), (542, 19975), (546, 19996), (552, 20020), (558, 20056), (565, 20110), (577, 20170), (585, 20212), (597, 20290), (608, 20347), (612, 20371), (618, 20425), (621, 20473), (630, 20515), (633, 20539), (634, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 47
Candidate Starts for Kumao_30:
(Start: 47 @23701 has 6 MA's), (75, 23767), (123, 23899), (132, 23923), (144, 23956), (164, 24031), (171, 24049), (186, 24100), (205, 24166), (247, 24370), (270, 24469), (284, 24502), (297, 24553), (331, 24676), (332, 24679), (372, 24856), (386, 24922), (401, 24988), (407, 25006), (410, 25021), (413, 25045), (439, 25150), (440, 25162), (470, 25300), (489, 25399), (491, 25405), (495, 25435), (507, 25477), (544, 25660), (545, 25663), (548, 25684), (549, 25690), (565, 25789), (572, 25828), (591, 25915), (607, 26014), (614, 26065), (615, 26083), (620, 26137), (633, 26212),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 46
Candidate Starts for Latretium_19:
(40, 18065), (Start: 46 @18077 has 244 MA's), (58, 18098), (Start: 69 @18119 has 1 MA's), (82, 18158), (113, 18227), (115, 18236), (116, 18239), (123, 18257), (140, 18305), (188, 18464), (189, 18467), (202, 18497), (206, 18512), (221, 18590), (225, 18611), (226, 18614), (239, 18680), (256, 18755), (257, 18761), (259, 18779), (267, 18803), (269, 18809), (270, 18812), (284, 18845), (286, 18851), (293, 18881), (301, 18902), (308, 18932), (311, 18941), (336, 19049), (342, 19070), (343, 19073), (344, 19082), (345, 19088), (348, 19103), (349, 19106), (354, 19127), (367, 19169), (372, 19202), (404, 19343), (406, 19349), (416, 19403), (417, 19406), (425, 19433), (440, 19508), (443, 19520), (444, 19523), (457, 19589), (462, 19613), (466, 19634), (468, 19643), (482, 19703), (483, 19706), (491, 19742), (494, 19760), (500, 19781), (509, 19808), (522, 19865), (524, 19877), (527, 19895), (529, 19904), (530, 19916), (537, 19952), (542, 19982), (558, 20063), (565, 20117), (577, 20177), (585, 20219), (608, 20354), (612, 20378), (618, 20432), (630, 20522), (633, 20546), (634, 20549),

Gene: Lemuria_23 Start: 20578, Stop: 23055, Start Num: 49
Candidate Starts for Lemuria_23:
(Start: 49 @20578 has 12 MA's), (95, 20686), (110, 20722), (115, 20740), (211, 21052), (267, 21295), (285, 21340), (312, 21442), (317, 21457), (333, 21523), (335, 21538), (346, 21589), (355, 21625), (370, 21691), (376, 21718), (416, 21916), (431, 21991), (478, 22216), (490, 22276), (499, 22321),

(534, 22459), (550, 22555), (571, 22693), (619, 22993),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 46
Candidate Starts for Leozinho_19:
(40, 17231), (Start: 46 @17243 has 244 MA's), (58, 17264), (Start: 69 @17285 has 1 MA's), (82, 17324), (113, 17393), (115, 17402), (116, 17405), (123, 17423), (136, 17456), (140, 17471), (155, 17519), (188, 17630), (189, 17633), (202, 17663), (205, 17675), (206, 17678), (221, 17756), (226, 17780), (239, 17846), (250, 17891), (256, 17921), (257, 17927), (259, 17945), (267, 17969), (270, 17978), (284, 18011), (286, 18017), (293, 18047), (305, 18086), (308, 18098), (311, 18107), (315, 18122), (317, 18125), (342, 18236), (343, 18239), (344, 18248), (345, 18254), (348, 18269), (349, 18272), (354, 18293), (363, 18323), (367, 18335), (372, 18368), (393, 18479), (395, 18482), (404, 18509), (406, 18515), (416, 18569), (417, 18572), (440, 18674), (443, 18686), (444, 18689), (457, 18755), (462, 18779), (466, 18800), (468, 18809), (482, 18869), (483, 18872), (491, 18908), (494, 18926), (497, 18938), (500, 18947), (509, 18974), (524, 19043), (527, 19061), (529, 19070), (530, 19082), (537, 19118), (542, 19148), (546, 19169), (552, 19193), (558, 19229), (565, 19283), (577, 19343), (585, 19385), (597, 19463), (608, 19520), (612, 19544), (618, 19598), (621, 19646), (630, 19688), (633, 19712), (634, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 46
Candidate Starts for Leperchaun_18:
(Start: 46 @17387 has 244 MA's), (58, 17408), (66, 17429), (83, 17468), (113, 17537), (115, 17546), (116, 17549), (123, 17567), (136, 17600), (140, 17615), (155, 17663), (188, 17774), (189, 17777), (203, 17810), (205, 17819), (206, 17822), (221, 17900), (233, 17966), (240, 17999), (253, 18053), (256, 18065), (267, 18113), (270, 18122), (272, 18131), (287, 18164), (301, 18206), (304, 18221), (313, 18251), (314, 18257), (315, 18260), (317, 18263), (323, 18290), (328, 18311), (335, 18344), (344, 18386), (345, 18392), (346, 18395), (348, 18407), (349, 18410), (356, 18437), (363, 18461), (367, 18473), (372, 18506), (377, 18527), (390, 18599), (395, 18620), (422, 18731), (430, 18755), (431, 18758), (435, 18782), (440, 18812), (446, 18836), (452, 18872), (453, 18878), (454, 18887), (474, 18977), (478, 19001), (479, 19016), (489, 19058), (491, 19064), (502, 19109), (525, 19205), (527, 19220), (529, 19229), (533, 19253), (545, 19316), (606, 19658), (612, 19703), (621, 19805),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 46
Candidate Starts for LilMoolah_18:
(Start: 46 @17531 has 244 MA's), (58, 17552), (66, 17573), (83, 17612), (113, 17681), (115, 17690), (116, 17693), (123, 17711), (140, 17759), (155, 17807), (188, 17918), (189, 17921), (203, 17954), (206, 17966), (221, 18044), (233, 18110), (240, 18143), (253, 18197), (256, 18209), (269, 18263), (270, 18266), (272, 18275), (287, 18308), (299, 18347), (301, 18350), (304, 18365), (305, 18368), (313, 18395), (314, 18401), (315, 18404), (317, 18407), (323, 18434), (327, 18452), (328, 18455), (344, 18530), (348, 18551), (349, 18554), (356, 18581), (363, 18605), (372, 18650), (373, 18653), (382, 18704), (395, 18767), (399, 18776), (405, 18800), (431, 18905), (432, 18908), (440, 18959), (441, 18965), (443, 18971), (444, 18974), (452, 19019), (454, 19034), (461, 19061), (466, 19085), (478, 19136), (482, 19154), (483, 19157), (484, 19169), (497, 19223), (527, 19346), (538, 19409), (550, 19472), (560, 19547), (599, 19748), (629, 19958), (636, 19997), (637, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 88
Candidate Starts for Lilac_28:
(Start: 88 @21781 has 134 MA's), (153, 21958), (158, 21979), (212, 22126), (249, 22300), (256, 22333), (263, 22369), (293, 22462), (311, 22522), (317, 22540), (346, 22672), (357, 22717), (386, 22849), (393, 22894), (411, 22954), (437, 23068), (440, 23089), (449, 23128), (452, 23149), (454, 23164), (489, 23314), (491, 23320), (494, 23338), (511, 23392), (527, 23476), (545, 23569), (593, 23815), (621, 24031), (634, 24115), (641, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 88

Candidate Starts for Lilizi_28:
(Start: 88 @21989 has 134 MA's), (153, 22166), (158, 22187), (212, 22334), (249, 22508), (256, 22541), (263, 22577), (293, 22670), (311, 22730), (317, 22748), (346, 22880), (357, 22925), (386, 23057), (393, 23102), (411, 23162), (437, 23276), (440, 23297), (449, 23336), (452, 23357), (454, 23372), (489, 23522), (491, 23528), (494, 23546), (511, 23600), (527, 23684), (545, 23777), (593, 24023), (621, 24239), (634, 24323), (641, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 88
Candidate Starts for Lilpickle_25:
(Start: 88 @21491 has 134 MA's), (153, 21668), (158, 21689), (212, 21836), (249, 22010), (256, 22043), (263, 22079), (293, 22172), (311, 22232), (317, 22250), (346, 22382), (357, 22427), (386, 22559), (393, 22604), (411, 22664), (437, 22778), (440, 22799), (449, 22838), (452, 22859), (454, 22874), (489, 23024), (491, 23030), (494, 23048), (511, 23102), (527, 23186), (545, 23279), (593, 23525), (621, 23741), (634, 23825), (641, 23858),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 46
Candidate Starts for LittleE_39:
(Start: 46 @30972 has 244 MA's), (123, 31167), (136, 31203), (140, 31218), (155, 31266), (188, 31377), (189, 31380), (202, 31410), (206, 31425), (221, 31503), (226, 31527), (239, 31593), (250, 31638), (256, 31668), (257, 31674), (259, 31692), (267, 31716), (270, 31725), (284, 31758), (286, 31764), (293, 31794), (305, 31833), (308, 31845), (311, 31854), (315, 31869), (317, 31872), (342, 31983), (343, 31986), (344, 31995), (345, 32001), (348, 32016), (349, 32019), (363, 32070), (367, 32082), (372, 32115), (386, 32181), (393, 32226), (395, 32229), (404, 32256), (406, 32262), (416, 32316), (417, 32319), (438, 32406), (440, 32421), (443, 32433), (444, 32436), (457, 32502), (466, 32547), (468, 32556), (482, 32616), (483, 32619), (491, 32655), (494, 32673), (497, 32685), (500, 32694), (509, 32721), (524, 32790), (527, 32808), (529, 32817), (530, 32829), (537, 32865), (542, 32895), (546, 32916), (552, 32940), (558, 32976), (565, 33030), (577, 33090), (585, 33132), (608, 33267), (612, 33291), (618, 33345), (621, 33393), (630, 33435), (633, 33459), (634, 33462),

Gene: LittleMinkey_35 Start: 28887, Stop: 31370, Start Num: 57
Candidate Starts for LittleMinkey_35:
(Start: 57 @28887 has 3 MA's), (61, 28896), (103, 29001), (104, 29004), (114, 29034), (123, 29058), (125, 29061), (235, 29478), (247, 29514), (260, 29580), (269, 29610), (288, 29676), (296, 29718), (323, 29811), (328, 29832), (340, 29886), (371, 30024), (376, 30045), (390, 30129), (415, 30234), (419, 30261), (433, 30315), (466, 30489), (478, 30531), (574, 31017), (619, 31308), (620, 31344), (624, 31353),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 46
Candidate Starts for LittleShirley_19:
(Start: 46 @17218 has 244 MA's), (58, 17239), (Start: 69 @17260 has 1 MA's), (82, 17299), (113, 17368), (115, 17377), (116, 17380), (123, 17398), (140, 17446), (186, 17599), (189, 17608), (206, 17653), (225, 17752), (226, 17755), (239, 17821), (256, 17896), (257, 17902), (259, 17920), (267, 17944), (269, 17950), (270, 17953), (284, 17986), (286, 17992), (293, 18022), (301, 18043), (308, 18073), (311, 18082), (315, 18097), (317, 18100), (342, 18211), (343, 18214), (344, 18223), (345, 18229), (348, 18244), (349, 18247), (354, 18268), (363, 18298), (367, 18310), (372, 18343), (393, 18454), (395, 18457), (404, 18484), (406, 18490), (416, 18544), (417, 18547), (440, 18649), (443, 18661), (444, 18664), (457, 18730), (462, 18754), (466, 18775), (468, 18784), (482, 18844), (483, 18847), (491, 18883), (494, 18901), (497, 18913), (500, 18922), (509, 18949), (522, 19006), (524, 19018), (527, 19036), (529, 19045), (530, 19057), (537, 19093), (542, 19123), (545, 19132), (546, 19144), (558, 19204), (565, 19258), (577, 19318), (585, 19360), (608, 19495), (612, 19519), (618, 19573), (621, 19621), (630, 19663), (633, 19687), (634, 19690),

Gene: Livelaughbron_26 Start: 22400, Stop: 24796, Start Num: 88

Candidate Starts for Livelaughbron_26:
(Start: 88 @22400 has 134 MA's), (153, 22577), (158, 22598), (212, 22745), (240, 22886), (249, 22919), (256, 22952), (263, 22988), (293, 23081), (311, 23141), (317, 23159), (346, 23291), (357, 23336), (386, 23468), (393, 23513), (411, 23573), (437, 23687), (440, 23708), (449, 23747), (452, 23768), (454, 23783), (489, 23933), (491, 23939), (494, 23957), (511, 24011), (527, 24095), (545, 24188), (593, 24434), (621, 24650), (634, 24734), (641, 24767),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 46
Candidate Starts for Lizziana_18:
(Start: 46 @17406 has 244 MA's), (83, 17487), (113, 17556), (115, 17565), (116, 17568), (123, 17586), (140, 17634), (154, 17679), (188, 17793), (189, 17796), (192, 17808), (203, 17829), (205, 17838), (206, 17841), (215, 17889), (221, 17919), (233, 17985), (240, 18018), (250, 18054), (254, 18078), (269, 18138), (270, 18141), (277, 18159), (299, 18222), (301, 18225), (305, 18243), (311, 18264), (317, 18282), (323, 18309), (328, 18330), (335, 18363), (345, 18411), (346, 18414), (348, 18426), (349, 18429), (356, 18456), (363, 18480), (372, 18525), (399, 18651), (405, 18675), (432, 18783), (440, 18834), (443, 18846), (444, 18849), (452, 18894), (454, 18909), (461, 18936), (466, 18960), (478, 19011), (482, 19029), (483, 19032), (484, 19044), (497, 19098), (511, 19140), (538, 19284), (548, 19338), (549, 19344), (550, 19347), (555, 19383), (557, 19386), (559, 19395), (560, 19422), (599, 19623), (621, 19794), (629, 19833), (636, 19872), (637, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 46
Candidate Starts for Llama_18:
(Start: 46 @17634 has 244 MA's), (58, 17655), (Start: 69 @17676 has 1 MA's), (82, 17715), (113, 17784), (115, 17793), (116, 17796), (123, 17814), (140, 17862), (188, 18021), (189, 18024), (205, 18066), (206, 18069), (221, 18147), (225, 18168), (226, 18171), (239, 18237), (240, 18246), (250, 18282), (256, 18312), (257, 18318), (267, 18360), (269, 18366), (270, 18369), (284, 18402), (286, 18408), (293, 18438), (301, 18459), (308, 18489), (311, 18498), (336, 18606), (340, 18618), (342, 18627), (343, 18630), (344, 18639), (345, 18645), (348, 18660), (349, 18663), (354, 18684), (367, 18726), (372, 18759), (404, 18900), (406, 18906), (416, 18960), (417, 18963), (425, 18990), (440, 19065), (443, 19077), (444, 19080), (457, 19146), (461, 19167), (462, 19170), (466, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (497, 19329), (524, 19434), (527, 19452), (529, 19461), (530, 19473), (537, 19509), (542, 19539), (546, 19560), (552, 19584), (558, 19620), (577, 19734), (585, 19776), (597, 19854), (608, 19911), (612, 19935), (618, 19989), (621, 20037), (630, 20079), (633, 20103), (634, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 46
Candidate Starts for Llij_18:
(Start: 46 @17383 has 244 MA's), (90, 17473), (113, 17533), (115, 17542), (116, 17545), (123, 17563), (140, 17611), (155, 17659), (186, 17764), (188, 17770), (189, 17773), (205, 17815), (206, 17818), (226, 17920), (239, 17986), (250, 18031), (256, 18061), (257, 18067), (259, 18085), (267, 18109), (270, 18118), (284, 18151), (286, 18157), (301, 18208), (305, 18226), (308, 18238), (311, 18247), (315, 18262), (318, 18268), (342, 18376), (344, 18388), (345, 18394), (348, 18409), (349, 18412), (354, 18433), (363, 18463), (367, 18475), (372, 18508), (386, 18574), (393, 18619), (395, 18622), (404, 18649), (406, 18655), (416, 18709), (417, 18712), (425, 18739), (440, 18814), (443, 18826), (444, 18829), (457, 18895), (461, 18916), (462, 18919), (468, 18949), (478, 18991), (482, 19009), (483, 19012), (489, 19042), (494, 19066), (497, 19078), (500, 19087), (524, 19183), (527, 19201), (529, 19210), (530, 19222), (542, 19288), (545, 19297), (546, 19309), (558, 19369), (585, 19525), (608, 19660), (612, 19684), (618, 19738), (627, 19807), (633, 19852), (634, 19855),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 46
Candidate Starts for Lorde_19:
(40, 17207), (Start: 46 @17219 has 244 MA's), (58, 17240), (Start: 69 @17261 has 1 MA's), (82, 17300), (113, 17369), (115, 17378), (116, 17381), (123, 17399), (136, 17432), (140, 17447), (155,

17495), (186, 17600), (189, 17609), (205, 17651), (206, 17654), (221, 17732), (226, 17756), (239, 17822), (250, 17867), (256, 17897), (257, 17903), (259, 17921), (267, 17945), (270, 17954), (284, 17987), (286, 17993), (293, 18023), (305, 18062), (308, 18074), (311, 18083), (315, 18098), (317, 18101), (342, 18212), (344, 18224), (345, 18230), (348, 18245), (349, 18248), (354, 18269), (363, 18299), (367, 18311), (372, 18344), (386, 18410), (393, 18455), (395, 18458), (404, 18485), (406, 18491), (416, 18545), (417, 18548), (425, 18575), (440, 18650), (443, 18662), (444, 18665), (457, 18731), (462, 18755), (468, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (500, 18923), (509, 18950), (524, 19019), (527, 19037), (529, 19046), (530, 19058), (537, 19094), (542, 19124), (545, 19133), (546, 19145), (558, 19205), (565, 19259), (577, 19319), (585, 19361), (597, 19439), (608, 19496), (612, 19520), (618, 19574), (621, 19622), (630, 19664), (633, 19688), (634, 19691),

Gene: Lucia_19 Start: 17421, Stop: 19973, Start Num: 46
Candidate Starts for Lucia_19:
(Start: 46 @17421 has 244 MA's), (58, 17442), (66, 17463), (83, 17502), (113, 17571), (115, 17580), (116, 17583), (123, 17601), (136, 17634), (140, 17649), (155, 17697), (188, 17808), (189, 17811), (203, 17844), (205, 17853), (206, 17856), (221, 17934), (233, 18000), (240, 18033), (253, 18087), (256, 18099), (267, 18147), (270, 18156), (272, 18165), (287, 18198), (301, 18240), (304, 18255), (313, 18285), (314, 18291), (315, 18294), (317, 18297), (323, 18324), (328, 18345), (335, 18378), (344, 18420), (345, 18426), (346, 18429), (348, 18441), (349, 18444), (356, 18471), (363, 18495), (367, 18507), (372, 18540), (377, 18561), (390, 18633), (395, 18654), (422, 18765), (430, 18789), (431, 18792), (435, 18816), (440, 18846), (446, 18870), (452, 18906), (453, 18912), (454, 18921), (474, 19011), (478, 19035), (479, 19050), (489, 19092), (491, 19098), (502, 19143), (525, 19239), (527, 19254), (529, 19263), (533, 19287), (545, 19350), (565, 19476), (606, 19692), (612, 19737), (621, 19839), (637, 19917),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 46
Candidate Starts for Lucky2013_36:
(Start: 46 @27869 has 244 MA's), (123, 28064), (136, 28100), (140, 28115), (174, 28202), (179, 28217), (206, 28292), (209, 28304), (215, 28331), (235, 28436), (247, 28475), (250, 28484), (256, 28508), (257, 28514), (259, 28532), (265, 28550), (270, 28565), (272, 28574), (277, 28583), (284, 28598), (292, 28625), (293, 28634), (305, 28673), (308, 28685), (311, 28694), (333, 28778), (349, 28859), (357, 28889), (358, 28892), (367, 28922), (371, 28949), (373, 28958), (382, 29009), (384, 29018), (386, 29021), (392, 29057), (399, 29078), (408, 29114), (441, 29267), (452, 29321), (462, 29366), (465, 29384), (466, 29387), (475, 29426), (507, 29573), (511, 29582), (525, 29651), (527, 29666), (558, 29831), (569, 29918), (580, 29966), (593, 30017), (604, 30095), (635, 30317), (637, 30320), (641, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 46
Candidate Starts for LunaBlu_19:
(Start: 46 @17477 has 244 MA's), (90, 17567), (113, 17627), (115, 17636), (116, 17639), (123, 17657), (136, 17690), (140, 17705), (155, 17753), (188, 17864), (189, 17867), (202, 17897), (206, 17912), (221, 17990), (239, 18080), (250, 18125), (256, 18155), (257, 18161), (259, 18179), (267, 18203), (270, 18212), (284, 18245), (286, 18251), (293, 18281), (305, 18320), (308, 18332), (311, 18341), (315, 18356), (317, 18359), (342, 18470), (344, 18482), (345, 18488), (348, 18503), (349, 18506), (354, 18527), (363, 18557), (367, 18569), (372, 18602), (386, 18668), (393, 18713), (395, 18716), (404, 18743), (406, 18749), (416, 18803), (417, 18806), (440, 18908), (443, 18920), (444, 18923), (457, 18989), (462, 19013), (468, 19043), (482, 19103), (483, 19106), (491, 19142), (494, 19160), (497, 19172), (500, 19181), (509, 19208), (524, 19277), (527, 19295), (529, 19304), (530, 19316), (537, 19352), (542, 19382), (546, 19403), (552, 19427), (558, 19463), (565, 19517), (577, 19577), (585, 19619), (597, 19697), (608, 19754), (612, 19778), (618, 19832), (621, 19880), (630, 19922), (633, 19946), (634, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 50
Candidate Starts for LunaStella_20:
(Start: 50 @17940 has 3 MA's), (58, 17952), (89, 18015), (101, 18042), (119, 18096), (123, 18105), (126, 18111), (136, 18138), (149, 18171), (174, 18243), (179, 18258), (189, 18294), (191, 18303), (204, 18321), (209, 18345), (214, 18369), (247, 18516), (250, 18525), (256, 18549), (259, 18573), (267, 18597), (269, 18603), (277, 18624), (286, 18645), (293, 18675), (303, 18705), (308, 18726), (333, 18819), (335, 18834), (336, 18843), (339, 18852), (342, 18864), (343, 18867), (363, 18951), (364, 18954), (367, 18963), (371, 18990), (373, 18999), (380, 19038), (384, 19059), (386, 19062), (392, 19098), (399, 19119), (416, 19197), (417, 19200), (433, 19254), (443, 19314), (460, 19401), (462, 19407), (465, 19425), (466, 19428), (475, 19464), (486, 19518), (489, 19527), (507, 19605), (512, 19623), (519, 19659), (520, 19662), (524, 19680), (525, 19683), (527, 19698), (537, 19755), (539, 19767), (552, 19830), (558, 19863), (569, 19950), (580, 19998), (584, 20022), (590, 20049), (593, 20058), (596, 20097), (604, 20136), (608, 20160), (611, 20181), (621, 20277), (627, 20298), (637, 20361), (641, 20388), (644, 20397),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 88
Candidate Starts for MISSy_25:
(Start: 88 @21796 has 134 MA's), (153, 21973), (158, 21994), (212, 22141), (240, 22282), (249, 22315), (256, 22348), (263, 22384), (293, 22477), (311, 22537), (317, 22555), (346, 22687), (357, 22732), (386, 22864), (393, 22909), (411, 22969), (437, 23083), (440, 23104), (449, 23143), (452, 23164), (454, 23179), (489, 23329), (491, 23335), (494, 23353), (511, 23407), (527, 23491), (545, 23584), (593, 23830), (621, 24046), (634, 24130), (641, 24163),

Gene: MOOREtheMARYer_23 Start: 20802, Stop: 23264, Start Num: 49
Candidate Starts for MOOREtheMARYer_23:
(Start: 49 @20802 has 12 MA's), (138, 21030), (152, 21072), (160, 21105), (197, 21210), (235, 21393), (252, 21453), (289, 21576), (296, 21615), (311, 21663), (312, 21666), (335, 21762), (340, 21783), (350, 21837), (370, 21918), (372, 21927), (378, 21954), (402, 22074), (409, 22101), (419, 22161), (433, 22209), (434, 22224), (447, 22290), (454, 22332), (478, 22425), (552, 22770), (558, 22809), (569, 22896), (583, 22968), (607, 23097), (619, 23202), (624, 23247),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 88
Candidate Starts for MPhalcon_25:
(Start: 88 @21790 has 134 MA's), (153, 21967), (158, 21988), (212, 22135), (240, 22276), (249, 22309), (256, 22342), (263, 22378), (293, 22471), (311, 22531), (317, 22549), (346, 22681), (357, 22726), (386, 22858), (393, 22903), (411, 22963), (437, 23077), (440, 23098), (449, 23137), (452, 23158), (454, 23173), (489, 23323), (491, 23329), (494, 23347), (511, 23401), (527, 23485), (545, 23578), (593, 23824), (621, 24040), (634, 24124), (641, 24157),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 60
Candidate Starts for MadKillah_59:
(Start: 60 @35875 has 35 MA's), (74, 35908), (100, 35977), (101, 35980), (109, 36004), (116, 36028), (126, 36052), (136, 36085), (193, 36292), (197, 36304), (198, 36307), (231, 36454), (233, 36484), (239, 36508), (250, 36538), (251, 36541), (256, 36568), (259, 36592), (269, 36622), (290, 36679), (294, 36703), (305, 36739), (308, 36751), (315, 36775), (317, 36778), (326, 36820), (348, 36916), (349, 36919), (409, 37174), (440, 37318), (452, 37378), (465, 37450), (466, 37453), (487, 37549), (527, 37723), (530, 37744), (548, 37837), (551, 37849), (565, 37939), (581, 38014), (596, 38059), (626, 38260), (632, 38314), (637, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 46
Candidate Starts for MadMen_19:
(Start: 46 @17637 has 244 MA's), (58, 17658), (Start: 69 @17679 has 1 MA's), (84, 17718), (113, 17787), (115, 17796), (116, 17799), (123, 17817), (136, 17850), (149, 17883), (155, 17916), (174,

17955), (179, 17970), (189, 18006), (191, 18015), (204, 18033), (209, 18057), (214, 18081), (247, 18228), (250, 18237), (256, 18261), (259, 18285), (267, 18309), (269, 18315), (277, 18336), (286, 18357), (293, 18387), (303, 18417), (308, 18438), (333, 18531), (335, 18546), (336, 18555), (342, 18576), (343, 18579), (363, 18663), (364, 18666), (367, 18675), (371, 18702), (373, 18711), (380, 18750), (384, 18771), (386, 18774), (392, 18810), (399, 18831), (416, 18909), (417, 18912), (433, 18966), (443, 19026), (462, 19119), (465, 19137), (466, 19140), (475, 19176), (486, 19230), (489, 19239), (507, 19317), (512, 19335), (519, 19371), (520, 19374), (524, 19392), (525, 19395), (527, 19410), (537, 19467), (539, 19479), (558, 19575), (569, 19662), (580, 19710), (584, 19734), (593, 19770), (596, 19809), (604, 19848), (608, 19872), (611, 19893), (621, 19989), (627, 20010), (637, 20073), (641, 20100), (644, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 88
Candidate Starts for MadamMonkfish_26:
(Start: 88 @21702 has 134 MA's), (153, 21879), (158, 21900), (212, 22047), (249, 22221), (256, 22254), (263, 22290), (293, 22383), (311, 22443), (317, 22461), (346, 22593), (357, 22638), (386, 22770), (393, 22815), (411, 22875), (437, 22989), (440, 23010), (449, 23049), (452, 23070), (454, 23085), (489, 23235), (491, 23241), (494, 23259), (511, 23313), (527, 23397), (545, 23490), (593, 23736), (621, 23952), (634, 24036), (641, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 46
Candidate Starts for Madiba_19:
(Start: 46 @17273 has 244 MA's), (58, 17294), (Start: 69 @17315 has 1 MA's), (84, 17354), (113, 17423), (115, 17432), (116, 17435), (123, 17453), (140, 17501), (179, 17603), (189, 17639), (190, 17645), (191, 17648), (204, 17666), (209, 17690), (214, 17714), (229, 17777), (247, 17861), (250, 17870), (256, 17894), (259, 17918), (267, 17942), (269, 17948), (277, 17969), (286, 17990), (293, 18020), (303, 18050), (308, 18071), (333, 18164), (335, 18179), (336, 18188), (342, 18209), (343, 18212), (363, 18296), (364, 18299), (367, 18308), (371, 18335), (373, 18344), (380, 18383), (384, 18404), (386, 18407), (392, 18443), (399, 18464), (416, 18542), (417, 18545), (433, 18599), (443, 18659), (462, 18752), (465, 18770), (466, 18773), (475, 18809), (486, 18863), (489, 18872), (507, 18950), (512, 18968), (519, 19004), (520, 19007), (524, 19025), (525, 19028), (527, 19043), (537, 19100), (539, 19112), (558, 19208), (569, 19295), (580, 19343), (584, 19367), (590, 19394), (593, 19403), (596, 19442), (604, 19481), (608, 19505), (611, 19526), (621, 19622), (627, 19643), (637, 19706), (641, 19733), (644, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 46
Candidate Starts for Mahavrat_18:
(Start: 46 @17394 has 244 MA's), (58, 17415), (Start: 69 @17436 has 1 MA's), (82, 17475), (113, 17544), (115, 17553), (116, 17556), (123, 17574), (136, 17607), (140, 17622), (188, 17781), (189, 17784), (206, 17829), (221, 17907), (226, 17931), (239, 17997), (256, 18072), (257, 18078), (267, 18120), (269, 18126), (270, 18129), (284, 18162), (286, 18168), (293, 18198), (301, 18219), (308, 18249), (311, 18258), (336, 18366), (340, 18378), (342, 18387), (343, 18390), (344, 18399), (345, 18405), (348, 18420), (349, 18423), (354, 18444), (367, 18486), (372, 18519), (393, 18630), (395, 18633), (404, 18660), (406, 18666), (416, 18720), (417, 18723), (425, 18750), (428, 18759), (440, 18825), (443, 18837), (444, 18840), (457, 18906), (461, 18927), (462, 18930), (466, 18951), (478, 19002), (482, 19020), (483, 19023), (489, 19053), (494, 19077), (497, 19089), (500, 19098), (524, 19194), (527, 19212), (529, 19221), (530, 19233), (537, 19269), (542, 19299), (546, 19320), (552, 19344), (558, 19380), (577, 19494), (585, 19536), (608, 19671), (612, 19695), (618, 19749), (627, 19818), (633, 19863), (634, 19866), (636, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 88
Candidate Starts for Manda_27:
(Start: 88 @22769 has 134 MA's), (153, 22946), (158, 22967), (212, 23114), (240, 23255), (249, 23288), (256, 23321), (263, 23357), (293, 23450), (311, 23510), (317, 23528), (346, 23660), (357,

23705), (386, 23837), (393, 23882), (411, 23942), (437, 24056), (440, 24077), (449, 24116), (452, 24137), (454, 24152), (489, 24302), (491, 24308), (494, 24326), (511, 24380), (527, 24464), (545, 24557), (593, 24803), (621, 25019), (634, 25103), (641, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 46
Candidate Starts for Mandlovu_18:
(Start: 46 @17495 has 244 MA's), (58, 17516), (Start: 69 @17537 has 1 MA's), (82, 17576), (113, 17645), (115, 17654), (116, 17657), (123, 17675), (140, 17723), (188, 17882), (189, 17885), (205, 17927), (206, 17930), (221, 18008), (225, 18029), (226, 18032), (239, 18098), (256, 18173), (257, 18179), (267, 18221), (269, 18227), (270, 18230), (284, 18263), (286, 18269), (293, 18299), (301, 18320), (308, 18350), (311, 18359), (336, 18467), (340, 18479), (342, 18488), (343, 18491), (344, 18500), (345, 18506), (348, 18521), (349, 18524), (354, 18545), (367, 18587), (372, 18620), (404, 18761), (406, 18767), (416, 18821), (417, 18824), (425, 18851), (440, 18926), (443, 18938), (444, 18941), (457, 19007), (462, 19031), (466, 19052), (468, 19061), (482, 19121), (483, 19124), (491, 19160), (494, 19178), (500, 19199), (509, 19226), (524, 19295), (527, 19313), (529, 19322), (530, 19334), (537, 19370), (542, 19400), (558, 19481), (577, 19595), (585, 19637), (608, 19772), (612, 19796), (618, 19850), (633, 19964), (634, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 46
Candidate Starts for Mantra_18:
(Start: 46 @17496 has 244 MA's), (58, 17517), (Start: 69 @17538 has 1 MA's), (82, 17577), (113, 17646), (115, 17655), (116, 17658), (123, 17676), (140, 17724), (186, 17877), (189, 17886), (206, 17931), (225, 18030), (226, 18033), (239, 18099), (256, 18174), (257, 18180), (259, 18198), (267, 18222), (269, 18228), (270, 18231), (284, 18264), (286, 18270), (293, 18300), (301, 18321), (308, 18351), (311, 18360), (315, 18375), (317, 18378), (342, 18489), (343, 18492), (344, 18501), (345, 18507), (348, 18522), (349, 18525), (354, 18546), (363, 18576), (367, 18588), (372, 18621), (393, 18732), (395, 18735), (404, 18762), (406, 18768), (416, 18822), (417, 18825), (438, 18912), (440, 18927), (443, 18939), (444, 18942), (457, 19008), (462, 19032), (466, 19053), (468, 19062), (482, 19122), (483, 19125), (491, 19161), (494, 19179), (497, 19191), (500, 19200), (509, 19227), (522, 19284), (524, 19296), (527, 19314), (529, 19323), (530, 19335), (537, 19371), (542, 19401), (545, 19410), (546, 19422), (558, 19482), (565, 19536), (577, 19596), (585, 19638), (608, 19773), (612, 19797), (618, 19851), (621, 19899), (630, 19941), (633, 19965), (634, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 46
Candidate Starts for Maravista_18:
(40, 17331), (Start: 46 @17343 has 244 MA's), (58, 17364), (Start: 69 @17385 has 1 MA's), (82, 17424), (113, 17493), (115, 17502), (116, 17505), (123, 17523), (136, 17556), (140, 17571), (155, 17619), (188, 17730), (189, 17733), (202, 17763), (205, 17775), (206, 17778), (221, 17856), (226, 17880), (239, 17946), (250, 17991), (256, 18021), (257, 18027), (259, 18045), (267, 18069), (270, 18078), (284, 18111), (286, 18117), (293, 18147), (305, 18186), (308, 18198), (311, 18207), (315, 18222), (317, 18225), (342, 18336), (343, 18339), (344, 18348), (345, 18354), (348, 18369), (349, 18372), (354, 18393), (363, 18423), (367, 18435), (372, 18468), (393, 18579), (395, 18582), (404, 18609), (406, 18615), (416, 18669), (417, 18672), (440, 18774), (443, 18786), (444, 18789), (457, 18855), (462, 18879), (466, 18900), (468, 18909), (482, 18969), (483, 18972), (491, 19008), (494, 19026), (497, 19038), (500, 19047), (509, 19074), (524, 19143), (527, 19161), (529, 19170), (530, 19182), (537, 19218), (542, 19248), (546, 19269), (552, 19293), (558, 19329), (565, 19383), (577, 19443), (585, 19485), (608, 19620), (612, 19644), (618, 19698), (621, 19746), (627, 19767), (630, 19788), (633, 19812), (634, 19815),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 46
Candidate Starts for Marker_19:
(Start: 46 @17246 has 244 MA's), (58, 17267), (Start: 69 @17288 has 1 MA's), (82, 17327), (113, 17396), (115, 17405), (116, 17408), (123, 17426), (140, 17474), (186, 17627), (189, 17636), (206,

17681), (225, 17780), (226, 17783), (239, 17849), (256, 17924), (257, 17930), (259, 17948), (267, 17972), (270, 17981), (284, 18014), (286, 18020), (293, 18050), (301, 18071), (305, 18089), (308, 18101), (311, 18110), (315, 18125), (317, 18128), (342, 18239), (343, 18242), (344, 18251), (345, 18257), (348, 18272), (349, 18275), (354, 18296), (363, 18326), (367, 18338), (372, 18371), (393, 18482), (395, 18485), (404, 18512), (406, 18518), (416, 18572), (417, 18575), (431, 18623), (438, 18662), (440, 18677), (443, 18689), (444, 18692), (448, 18713), (457, 18758), (462, 18782), (468, 18812), (478, 18854), (482, 18872), (483, 18875), (491, 18911), (494, 18929), (497, 18941), (500, 18950), (511, 18983), (524, 19046), (527, 19064), (529, 19073), (530, 19085), (542, 19151), (546, 19172), (552, 19196), (558, 19232), (565, 19286), (577, 19346), (585, 19388), (597, 19466), (608, 19523), (612, 19547), (618, 19601), (621, 19649), (630, 19691), (633, 19715), (634, 19718),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 88
Candidate Starts for Marshmallow_26:
(Start: 88 @22283 has 134 MA's), (153, 22460), (158, 22481), (212, 22628), (240, 22769), (249, 22802), (256, 22835), (263, 22871), (293, 22964), (311, 23024), (317, 23042), (335, 23123), (386, 23351), (393, 23396), (440, 23591), (441, 23597), (444, 23606), (452, 23651), (454, 23666), (491, 23822), (494, 23840), (496, 23849), (527, 23978), (528, 23981), (564, 24191), (566, 24203), (593, 24317), (621, 24533), (634, 24617), (639, 24641), (641, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 46
Candidate Starts for Martik_18:
(Start: 46 @17406 has 244 MA's), (83, 17487), (113, 17556), (115, 17565), (116, 17568), (123, 17586), (140, 17634), (154, 17679), (188, 17793), (189, 17796), (192, 17808), (203, 17829), (205, 17838), (206, 17841), (215, 17889), (221, 17919), (233, 17985), (240, 18018), (250, 18054), (254, 18078), (269, 18138), (270, 18141), (277, 18159), (299, 18222), (301, 18225), (305, 18243), (311, 18264), (317, 18282), (323, 18309), (328, 18330), (335, 18363), (344, 18405), (345, 18411), (346, 18414), (349, 18429), (356, 18456), (357, 18459), (363, 18480), (367, 18492), (372, 18525), (390, 18618), (416, 18726), (422, 18750), (425, 18756), (430, 18774), (431, 18777), (435, 18801), (440, 18831), (446, 18855), (452, 18891), (453, 18897), (454, 18906), (461, 18933), (474, 18996), (478, 19020), (479, 19035), (489, 19077), (502, 19128), (525, 19224), (527, 19239), (529, 19248), (533, 19272), (545, 19335), (552, 19371), (606, 19677), (612, 19722), (621, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 47
Candidate Starts for MaryV_43:
(Start: 47 @28332 has 6 MA's), (75, 28401), (119, 28524), (122, 28530), (123, 28533), (132, 28557), (139, 28578), (186, 28734), (187, 28740), (189, 28746), (198, 28776), (200, 28782), (206, 28803), (208, 28812), (219, 28872), (234, 28950), (257, 29049), (264, 29082), (269, 29097), (270, 29100), (286, 29139), (301, 29190), (305, 29208), (311, 29229), (313, 29235), (321, 29262), (326, 29289), (342, 29358), (347, 29382), (350, 29403), (357, 29424), (361, 29433), (367, 29454), (372, 29487), (373, 29490), (382, 29541), (386, 29553), (401, 29619), (407, 29637), (413, 29676), (440, 29793), (450, 29838), (461, 29895), (466, 29919), (468, 29928), (472, 29946), (482, 29991), (489, 30024), (495, 30060), (536, 30234), (537, 30252), (538, 30258), (549, 30315), (607, 30639), (610, 30657), (615, 30708), (623, 30771), (633, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 46
Candidate Starts for Mattes_18:
(Start: 46 @17397 has 244 MA's), (58, 17418), (66, 17439), (83, 17478), (113, 17547), (115, 17556), (116, 17559), (123, 17577), (140, 17625), (155, 17673), (188, 17784), (189, 17787), (203, 17820), (206, 17832), (221, 17910), (233, 17976), (240, 18009), (253, 18063), (256, 18075), (269, 18129), (270, 18132), (272, 18141), (287, 18174), (299, 18213), (301, 18216), (304, 18231), (305, 18234), (313, 18261), (314, 18267), (315, 18270), (317, 18273), (323, 18300), (327, 18318), (328, 18321), (344, 18396), (348, 18417), (349, 18420), (356, 18447), (363, 18471), (372, 18516), (373, 18519), (382, 18570), (395, 18633), (399, 18642), (405, 18666), (431, 18771), (432, 18774), (440, 18825),

(441, 18831), (443, 18837), (444, 18840), (452, 18885), (454, 18900), (461, 18927), (466, 18951), (478, 19002), (482, 19020), (483, 19023), (484, 19035), (497, 19089), (527, 19212), (538, 19275), (550, 19338), (560, 19413), (599, 19614), (629, 19824), (636, 19863), (637, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 88
Candidate Starts for Maxxinista_27:
(Start: 88 @21751 has 134 MA's), (153, 21928), (158, 21949), (212, 22096), (249, 22270), (256, 22303), (263, 22339), (293, 22432), (311, 22492), (317, 22510), (346, 22642), (357, 22687), (386, 22819), (393, 22864), (411, 22924), (437, 23038), (440, 23059), (449, 23098), (452, 23119), (454, 23134), (489, 23284), (491, 23290), (494, 23308), (511, 23362), (527, 23446), (545, 23539), (593, 23785), (621, 24001), (634, 24085), (641, 24118),

Gene: Medindi_18 Start: 17393, Stop: 19930, Start Num: 46
Candidate Starts for Medindi_18:
(40, 17381), (Start: 46 @17393 has 244 MA's), (58, 17414), (Start: 69 @17435 has 1 MA's), (82, 17474), (113, 17543), (115, 17552), (116, 17555), (123, 17573), (136, 17606), (140, 17621), (155, 17669), (188, 17780), (189, 17783), (202, 17813), (204, 17816), (206, 17828), (221, 17906), (226, 17930), (239, 17996), (250, 18041), (256, 18071), (257, 18077), (259, 18095), (267, 18119), (270, 18128), (284, 18161), (286, 18167), (293, 18197), (308, 18248), (311, 18257), (315, 18272), (317, 18275), (342, 18386), (343, 18389), (344, 18398), (345, 18404), (348, 18419), (349, 18422), (354, 18443), (363, 18473), (367, 18485), (372, 18518), (393, 18629), (395, 18632), (404, 18659), (406, 18665), (416, 18719), (417, 18722), (440, 18824), (443, 18836), (444, 18839), (457, 18905), (461, 18926), (462, 18929), (466, 18950), (468, 18959), (482, 19019), (483, 19022), (491, 19058), (494, 19076), (497, 19088), (500, 19097), (509, 19124), (524, 19193), (527, 19211), (529, 19220), (530, 19232), (537, 19268), (542, 19298), (546, 19319), (552, 19343), (558, 19379), (565, 19433), (577, 19493), (585, 19535), (597, 19613), (608, 19670), (612, 19694), (618, 19748), (621, 19796), (630, 19838), (633, 19862), (634, 19865),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 16
Candidate Starts for Megatron06_31:
(Start: 16 @26215 has 10 MA's), (25, 26347), (26, 26359), (28, 26368), (42, 26437), (44, 26443), (72, 26503), (78, 26524), (96, 26572), (111, 26614), (118, 26638), (131, 26671), (142, 26707), (148, 26719), (173, 26812), (189, 26869), (201, 26908), (229, 27034), (240, 27103), (248, 27133), (257, 27175), (270, 27226), (301, 27316), (305, 27334), (326, 27415), (335, 27454), (340, 27475), (372, 27613), (379, 27652), (392, 27715), (417, 27817), (465, 28042), (543, 28405), (548, 28432), (594, 28675), (595, 28708), (600, 28732), (617, 28852), (628, 28930), (641, 29017), (646, 29032), (648, 29038),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 69
Candidate Starts for Melissauren88_18:
(40, 17416), (Start: 46 @17428 has 244 MA's), (58, 17449), (Start: 69 @17470 has 1 MA's), (82, 17509), (113, 17578), (115, 17587), (116, 17590), (123, 17608), (136, 17641), (140, 17656), (155, 17704), (188, 17815), (189, 17818), (202, 17848), (205, 17860), (206, 17863), (221, 17941), (226, 17965), (239, 18031), (250, 18076), (256, 18106), (257, 18112), (259, 18130), (267, 18154), (270, 18163), (284, 18196), (286, 18202), (293, 18232), (305, 18271), (308, 18283), (311, 18292), (315, 18307), (317, 18310), (342, 18421), (343, 18424), (344, 18433), (345, 18439), (348, 18454), (349, 18457), (354, 18478), (363, 18508), (367, 18520), (372, 18553), (393, 18664), (395, 18667), (404, 18694), (406, 18700), (416, 18754), (417, 18757), (438, 18844), (440, 18859), (443, 18871), (444, 18874), (457, 18940), (462, 18964), (466, 18985), (468, 18994), (482, 19054), (483, 19057), (491, 19093), (494, 19111), (497, 19123), (500, 19132), (509, 19159), (524, 19228), (527, 19246), (529, 19255), (530, 19267), (537, 19303), (542, 19333), (546, 19354), (552, 19378), (558, 19414), (565, 19468), (577, 19528), (585, 19570), (597, 19648), (608, 19705), (612, 19729), (618, 19783), (621, 19831), (630, 19873), (633, 19897), (634, 19900),

Gene: Mercurio_24 Start: 21194, Stop: 23665, Start Num: 49
Candidate Starts for Mercurio_24:
(Start: 49 @21194 has 12 MA's), (79, 21260), (95, 21302), (134, 21410), (174, 21533), (197, 21596), (214, 21674), (267, 21905), (280, 21938), (285, 21950), (312, 22052), (323, 22094), (333, 22133), (335, 22148), (346, 22199), (355, 22235), (370, 22301), (376, 22328), (416, 22526), (431, 22601), (434, 22622), (454, 22730), (464, 22775), (478, 22826), (482, 22850), (490, 22886), (494, 22910), (499, 22931), (534, 23069), (550, 23165), (571, 23303),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 46
Candidate Starts for MiaZeal_36:
(Start: 46 @27554 has 244 MA's), (123, 27749), (136, 27785), (140, 27800), (174, 27887), (179, 27902), (206, 27977), (209, 27989), (215, 28016), (235, 28121), (247, 28160), (250, 28169), (256, 28193), (257, 28199), (259, 28217), (270, 28250), (272, 28259), (277, 28268), (284, 28283), (292, 28310), (293, 28319), (305, 28358), (308, 28370), (311, 28379), (333, 28463), (349, 28544), (357, 28574), (358, 28577), (367, 28607), (371, 28634), (373, 28643), (382, 28694), (384, 28703), (386, 28706), (392, 28742), (399, 28763), (408, 28799), (441, 28952), (452, 29006), (462, 29051), (465, 29069), (466, 29072), (475, 29111), (507, 29258), (511, 29267), (525, 29336), (527, 29351), (558, 29516), (569, 29603), (580, 29651), (593, 29702), (604, 29780), (635, 30002), (637, 30005), (641, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 46
Candidate Starts for MilleniumForce_19:
(40, 18199), (Start: 46 @18211 has 244 MA's), (58, 18232), (Start: 69 @18253 has 1 MA's), (82, 18292), (113, 18361), (115, 18370), (116, 18373), (123, 18391), (136, 18424), (140, 18439), (155, 18487), (188, 18598), (189, 18601), (202, 18631), (205, 18643), (206, 18646), (221, 18724), (226, 18748), (239, 18814), (250, 18859), (256, 18889), (257, 18895), (259, 18913), (267, 18937), (270, 18946), (284, 18979), (286, 18985), (293, 19015), (305, 19054), (308, 19066), (311, 19075), (315, 19090), (317, 19093), (342, 19204), (343, 19207), (344, 19216), (345, 19222), (348, 19237), (349, 19240), (354, 19261), (363, 19291), (367, 19303), (372, 19336), (393, 19447), (395, 19450), (404, 19477), (406, 19483), (416, 19537), (417, 19540), (440, 19642), (443, 19654), (444, 19657), (457, 19723), (462, 19747), (466, 19768), (468, 19777), (482, 19837), (483, 19840), (491, 19876), (494, 19894), (497, 19906), (500, 19915), (509, 19942), (524, 20011), (527, 20029), (529, 20038), (530, 20050), (537, 20086), (542, 20116), (546, 20137), (552, 20161), (558, 20197), (565, 20251), (577, 20311), (585, 20353), (597, 20431), (608, 20488), (612, 20512), (618, 20566), (621, 20614), (630, 20656), (633, 20680), (634, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 88
Candidate Starts for Mindy_26:
(Start: 88 @22062 has 134 MA's), (153, 22239), (158, 22260), (212, 22407), (240, 22548), (249, 22581), (256, 22614), (263, 22650), (293, 22743), (311, 22803), (317, 22821), (350, 22977), (357, 22998), (382, 23118), (386, 23130), (393, 23175), (440, 23370), (444, 23385), (452, 23430), (454, 23445), (491, 23601), (494, 23619), (496, 23628), (527, 23757), (528, 23760), (564, 23970), (566, 23982), (593, 24096), (621, 24312), (634, 24396), (639, 24420), (641, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 46
Candidate Starts for Minerva_39:
(34, 31164), (Start: 46 @31221 has 244 MA's), (121, 31410), (140, 31467), (154, 31512), (188, 31626), (189, 31629), (195, 31650), (203, 31662), (206, 31674), (221, 31752), (233, 31818), (240, 31851), (250, 31887), (254, 31911), (269, 31971), (270, 31974), (277, 31992), (299, 32055), (301, 32058), (305, 32076), (311, 32097), (317, 32115), (323, 32142), (328, 32163), (335, 32196), (345, 32244), (346, 32247), (349, 32262), (356, 32289), (363, 32313), (372, 32358), (399, 32484), (416, 32562), (432, 32616), (440, 32667), (441, 32673), (443, 32679), (444, 32682), (452, 32727), (454, 32742),

(461, 32769), (466, 32793), (478, 32844), (482, 32862), (483, 32865), (484, 32877), (497, 32931), (511, 32973), (538, 33117), (548, 33171), (549, 33177), (550, 33180), (555, 33216), (557, 33219), (559, 33228), (560, 33255), (599, 33456), (621, 33627), (629, 33666), (637, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 46
Candidate Starts for MinionDave_19:
(Start: 46 @18080 has 244 MA's), (90, 18170), (113, 18230), (115, 18239), (116, 18242), (123, 18260), (136, 18293), (140, 18308), (155, 18356), (188, 18467), (189, 18470), (202, 18500), (205, 18512), (206, 18515), (221, 18593), (226, 18617), (239, 18683), (250, 18728), (256, 18758), (257, 18764), (259, 18782), (267, 18806), (270, 18815), (284, 18848), (286, 18854), (293, 18884), (305, 18923), (308, 18935), (311, 18944), (315, 18959), (317, 18962), (342, 19073), (343, 19076), (344, 19085), (345, 19091), (348, 19106), (349, 19109), (354, 19130), (363, 19160), (367, 19172), (372, 19205), (393, 19316), (395, 19319), (404, 19346), (406, 19352), (416, 19406), (417, 19409), (438, 19496), (440, 19511), (443, 19523), (444, 19526), (457, 19592), (462, 19616), (466, 19637), (468, 19646), (482, 19706), (483, 19709), (491, 19745), (494, 19763), (497, 19775), (500, 19784), (509, 19811), (524, 19880), (527, 19898), (529, 19907), (530, 19919), (537, 19955), (542, 19985), (546, 20006), (552, 20030), (558, 20066), (565, 20120), (577, 20180), (585, 20222), (597, 20300), (608, 20357), (612, 20381), (618, 20435), (621, 20483), (630, 20525), (633, 20549), (634, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 88
Candidate Starts for Miniwave_26:
(Start: 88 @22481 has 134 MA's), (153, 22658), (158, 22679), (212, 22826), (240, 22967), (249, 23000), (256, 23033), (263, 23069), (293, 23162), (311, 23222), (317, 23240), (346, 23372), (357, 23417), (386, 23549), (393, 23594), (411, 23654), (437, 23768), (440, 23789), (449, 23828), (452, 23849), (454, 23864), (489, 24014), (491, 24020), (494, 24038), (511, 24092), (527, 24176), (545, 24269), (593, 24515), (621, 24731), (634, 24815), (641, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 46
Candidate Starts for Minnie_19:
(40, 17928), (Start: 46 @17940 has 244 MA's), (58, 17961), (Start: 69 @17982 has 1 MA's), (82, 18021), (113, 18090), (115, 18099), (116, 18102), (123, 18120), (136, 18153), (140, 18168), (155, 18216), (188, 18327), (189, 18330), (202, 18360), (205, 18372), (206, 18375), (221, 18453), (226, 18477), (239, 18543), (250, 18588), (256, 18618), (257, 18624), (259, 18642), (267, 18666), (270, 18675), (284, 18708), (286, 18714), (293, 18744), (305, 18783), (308, 18795), (311, 18804), (315, 18819), (317, 18822), (342, 18933), (343, 18936), (344, 18945), (345, 18951), (348, 18966), (349, 18969), (354, 18990), (363, 19020), (367, 19032), (372, 19065), (393, 19176), (395, 19179), (404, 19206), (406, 19212), (416, 19266), (417, 19269), (440, 19371), (443, 19383), (444, 19386), (457, 19452), (462, 19476), (466, 19497), (468, 19506), (482, 19566), (483, 19569), (491, 19605), (494, 19623), (497, 19635), (500, 19644), (509, 19671), (524, 19740), (527, 19758), (529, 19767), (530, 19779), (537, 19815), (542, 19845), (546, 19866), (552, 19890), (558, 19926), (565, 19980), (577, 20040), (585, 20082), (597, 20160), (608, 20217), (612, 20241), (618, 20295), (621, 20343), (630, 20385), (633, 20409), (634, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 88
Candidate Starts for Misfit_26:
(Start: 88 @22371 has 134 MA's), (153, 22548), (158, 22569), (212, 22716), (240, 22857), (249, 22890), (256, 22923), (263, 22959), (293, 23052), (311, 23112), (317, 23130), (346, 23262), (357, 23307), (386, 23439), (393, 23484), (411, 23544), (437, 23658), (440, 23679), (449, 23718), (452, 23739), (454, 23754), (489, 23904), (491, 23910), (494, 23928), (511, 23982), (527, 24066), (545, 24159), (593, 24405), (621, 24621), (634, 24705), (641, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 46
Candidate Starts for Misha28_19:

(Start: 46 @17273 has 244 MA's), (58, 17294), (Start: 69 @17315 has 1 MA's), (82, 17354), (113, 17423), (115, 17432), (116, 17435), (123, 17453), (136, 17486), (140, 17501), (155, 17549), (188, 17660), (189, 17663), (206, 17708), (221, 17786), (226, 17810), (239, 17876), (250, 17921), (256, 17951), (257, 17957), (259, 17975), (267, 17999), (270, 18008), (284, 18041), (286, 18047), (293, 18077), (305, 18116), (308, 18128), (311, 18137), (315, 18152), (317, 18155), (349, 18302), (363, 18353), (385, 18464), (395, 18515), (403, 18539), (425, 18632), (435, 18677), (437, 18686), (440, 18707), (443, 18719), (444, 18722), (452, 18767), (462, 18812), (465, 18830), (466, 18833), (478, 18884), (489, 18935), (491, 18941), (494, 18959), (497, 18971), (500, 18980), (511, 19013), (527, 19094), (539, 19163), (545, 19190), (549, 19217), (559, 19268), (565, 19316), (611, 19559), (621, 19664), (627, 19685), (636, 19739), (640, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 46
Candidate Starts for MisterCuddles_18:
(Start: 46 @17371 has 244 MA's), (58, 17392), (Start: 69 @17413 has 1 MA's), (82, 17452), (113, 17521), (115, 17530), (116, 17533), (123, 17551), (136, 17584), (140, 17599), (186, 17752), (189, 17761), (206, 17806), (225, 17905), (226, 17908), (239, 17974), (256, 18049), (257, 18055), (267, 18097), (269, 18103), (270, 18106), (284, 18139), (286, 18145), (293, 18175), (301, 18196), (308, 18226), (311, 18235), (315, 18250), (317, 18253), (342, 18364), (343, 18367), (344, 18376), (345, 18382), (348, 18397), (349, 18400), (354, 18421), (363, 18451), (367, 18463), (372, 18496), (393, 18607), (395, 18610), (404, 18637), (406, 18643), (416, 18697), (417, 18700), (438, 18787), (440, 18802), (443, 18814), (444, 18817), (457, 18883), (462, 18907), (466, 18928), (468, 18937), (478, 18979), (482, 18997), (483, 19000), (489, 19030), (494, 19054), (497, 19066), (500, 19075), (524, 19171), (527, 19189), (529, 19198), (530, 19210), (537, 19246), (542, 19276), (545, 19285), (546, 19297), (558, 19357), (565, 19411), (577, 19471), (585, 19513), (608, 19648), (612, 19672), (618, 19726), (621, 19774), (630, 19816), (633, 19840), (634, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 46
Candidate Starts for Modragons_18:
(Start: 46 @17634 has 244 MA's), (58, 17655), (Start: 69 @17676 has 1 MA's), (82, 17715), (113, 17784), (115, 17793), (116, 17796), (123, 17814), (140, 17862), (188, 18021), (189, 18024), (205, 18066), (206, 18069), (221, 18147), (225, 18168), (226, 18171), (239, 18237), (240, 18246), (250, 18282), (256, 18312), (257, 18318), (267, 18360), (269, 18366), (270, 18369), (284, 18402), (286, 18408), (293, 18438), (301, 18459), (308, 18489), (311, 18498), (336, 18606), (340, 18618), (342, 18627), (343, 18630), (344, 18639), (345, 18645), (348, 18660), (349, 18663), (354, 18684), (367, 18726), (372, 18759), (404, 18900), (406, 18906), (416, 18960), (417, 18963), (425, 18990), (440, 19065), (443, 19077), (444, 19080), (457, 19146), (461, 19167), (462, 19170), (466, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (497, 19329), (524, 19434), (527, 19452), (529, 19461), (530, 19473), (537, 19509), (542, 19539), (546, 19560), (552, 19584), (558, 19620), (577, 19734), (585, 19776), (597, 19854), (608, 19911), (612, 19935), (618, 19989), (621, 20037), (630, 20079), (633, 20103), (634, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 88
Candidate Starts for Moldemort_27:
(Start: 88 @22026 has 134 MA's), (153, 22203), (158, 22224), (212, 22371), (249, 22545), (256, 22578), (263, 22614), (293, 22707), (311, 22767), (317, 22785), (346, 22917), (357, 22962), (386, 23094), (393, 23139), (411, 23199), (437, 23313), (440, 23334), (449, 23373), (452, 23394), (454, 23409), (489, 23559), (491, 23565), (494, 23583), (511, 23637), (527, 23721), (545, 23814), (593, 24060), (621, 24276), (634, 24360), (641, 24393),

Gene: MollyToe_26 Start: 22455, Stop: 24851, Start Num: 88
Candidate Starts for MollyToe_26:
(Start: 88 @22455 has 134 MA's), (153, 22632), (158, 22653), (212, 22800), (240, 22941), (249, 22974), (256, 23007), (263, 23043), (293, 23136), (311, 23196), (317, 23214), (346, 23346), (357,

23391), (386, 23523), (393, 23568), (437, 23742), (440, 23763), (449, 23802), (452, 23823), (454, 23838), (491, 23994), (494, 24012), (511, 24066), (527, 24150), (545, 24243), (593, 24489), (621, 24705), (634, 24789), (641, 24822),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 46
Candidate Starts for MooMoo_18:
(Start: 46 @17135 has 244 MA's), (53, 17147), (62, 17168), (80, 17213), (86, 17231), (91, 17243), (117, 17318), (153, 17414), (165, 17441), (169, 17450), (175, 17468), (176, 17471), (180, 17480), (209, 17555), (210, 17564), (213, 17573), (236, 17651), (256, 17717), (257, 17723), (265, 17759), (266, 17762), (267, 17765), (269, 17771), (272, 17783), (277, 17792), (284, 17807), (297, 17858), (304, 17879), (305, 17882), (311, 17903), (319, 17927), (329, 17972), (342, 18032), (343, 18035), (347, 18056), (350, 18077), (361, 18110), (363, 18119), (372, 18164), (373, 18167), (375, 18173), (380, 18206), (382, 18218), (384, 18227), (386, 18230), (411, 18335), (417, 18368), (443, 18482), (453, 18536), (460, 18569), (461, 18572), (462, 18575), (465, 18593), (475, 18632), (489, 18695), (507, 18773), (512, 18791), (524, 18848), (525, 18851), (528, 18869), (538, 18929), (541, 18944), (552, 18998), (565, 19085), (584, 19190), (594, 19217), (604, 19289), (608, 19313), (621, 19430), (627, 19451), (635, 19511), (637, 19514), (641, 19541), (644, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 46
Candidate Starts for Moonbeam_19:
(40, 17877), (Start: 46 @17889 has 244 MA's), (58, 17910), (Start: 69 @17931 has 1 MA's), (82, 17970), (113, 18039), (115, 18048), (116, 18051), (123, 18069), (136, 18102), (140, 18117), (155, 18165), (188, 18276), (189, 18279), (202, 18309), (205, 18321), (206, 18324), (221, 18402), (226, 18426), (239, 18492), (250, 18537), (256, 18567), (257, 18573), (259, 18591), (267, 18615), (270, 18624), (284, 18657), (286, 18663), (293, 18693), (305, 18732), (308, 18744), (311, 18753), (315, 18768), (317, 18771), (342, 18882), (343, 18885), (344, 18894), (345, 18900), (348, 18915), (349, 18918), (354, 18939), (363, 18969), (367, 18981), (372, 19014), (393, 19125), (395, 19128), (404, 19155), (406, 19161), (416, 19215), (417, 19218), (438, 19305), (440, 19320), (443, 19332), (444, 19335), (457, 19401), (462, 19425), (466, 19446), (468, 19455), (478, 19497), (482, 19515), (483, 19518), (491, 19554), (494, 19572), (497, 19584), (500, 19593), (509, 19620), (524, 19689), (527, 19707), (529, 19716), (530, 19728), (537, 19764), (542, 19794), (546, 19815), (552, 19839), (558, 19875), (565, 19929), (577, 19989), (585, 20031), (597, 20109), (608, 20166), (612, 20190), (618, 20244), (621, 20292), (630, 20334), (633, 20358), (634, 20361),

Gene: Mopey_30 Start: 24316, Stop: 26586, Start Num: 157
Candidate Starts for Mopey_30:
(Start: 157 @24316 has 22 MA's), (196, 24451), (199, 24460), (233, 24634), (234, 24640), (237, 24652), (273, 24805), (282, 24820), (288, 24835), (382, 25216), (383, 25222), (391, 25267), (412, 25354), (455, 25555), (456, 25561), (466, 25609), (472, 25639), (476, 25663), (515, 25852), (523, 25879), (530, 25927), (544, 25999), (552, 26038), (553, 26059), (556, 26074), (559, 26092), (561, 26122), (578, 26206), (616, 26407), (621, 26449), (647, 26575),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 60
Candidate Starts for Mori_58:
(Start: 60 @36137 has 35 MA's), (74, 36170), (100, 36239), (101, 36242), (109, 36266), (116, 36290), (126, 36314), (136, 36347), (193, 36554), (197, 36566), (198, 36569), (231, 36716), (233, 36746), (239, 36770), (250, 36800), (251, 36803), (256, 36830), (259, 36854), (269, 36884), (290, 36941), (294, 36965), (305, 37001), (308, 37013), (315, 37037), (317, 37040), (326, 37082), (348, 37178), (349, 37181), (409, 37436), (440, 37580), (452, 37640), (465, 37712), (466, 37715), (487, 37811), (527, 37985), (530, 38006), (548, 38099), (551, 38111), (565, 38201), (581, 38276), (596, 38321), (626, 38522), (632, 38576), (637, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 88

Candidate Starts for Mosby_25:
(Start: 88 @21791 has 134 MA's), (153, 21968), (158, 21989), (212, 22136), (240, 22277), (249, 22310), (256, 22343), (263, 22379), (293, 22472), (311, 22532), (317, 22550), (346, 22682), (357, 22727), (386, 22859), (393, 22904), (437, 23078), (440, 23099), (449, 23138), (452, 23159), (454, 23174), (491, 23330), (494, 23348), (511, 23402), (527, 23486), (545, 23579), (593, 23825), (621, 24041), (634, 24125), (641, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 46
Candidate Starts for Mova_19:
(Start: 46 @17248 has 244 MA's), (58, 17269), (Start: 69 @17290 has 1 MA's), (82, 17329), (113, 17398), (115, 17407), (116, 17410), (123, 17428), (136, 17461), (140, 17476), (188, 17635), (189, 17638), (206, 17683), (221, 17761), (226, 17785), (239, 17851), (256, 17926), (257, 17932), (259, 17950), (267, 17974), (270, 17983), (284, 18016), (286, 18022), (293, 18052), (301, 18073), (305, 18091), (311, 18112), (315, 18127), (317, 18130), (336, 18220), (342, 18241), (343, 18244), (344, 18253), (345, 18259), (348, 18274), (349, 18277), (354, 18298), (367, 18340), (372, 18373), (386, 18439), (393, 18484), (395, 18487), (404, 18514), (406, 18520), (416, 18574), (417, 18577), (425, 18604), (438, 18664), (440, 18679), (443, 18691), (444, 18694), (457, 18760), (462, 18784), (468, 18814), (478, 18856), (482, 18874), (483, 18877), (491, 18913), (494, 18931), (497, 18943), (500, 18952), (509, 18979), (524, 19048), (527, 19066), (529, 19075), (530, 19087), (537, 19123), (542, 19153), (546, 19174), (552, 19198), (558, 19234), (565, 19288), (585, 19390), (608, 19525), (612, 19549), (618, 19603), (621, 19651), (630, 19693), (633, 19717), (634, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 46
Candidate Starts for Mozy_19:
(Start: 46 @17298 has 244 MA's), (58, 17319), (Start: 69 @17340 has 1 MA's), (82, 17379), (113, 17448), (115, 17457), (116, 17460), (123, 17478), (136, 17511), (140, 17526), (188, 17685), (189, 17688), (202, 17718), (206, 17733), (221, 17811), (225, 17832), (226, 17835), (239, 17901), (256, 17976), (257, 17982), (267, 18024), (269, 18030), (270, 18033), (284, 18066), (286, 18072), (293, 18102), (301, 18123), (308, 18153), (311, 18162), (342, 18291), (343, 18294), (344, 18303), (345, 18309), (348, 18324), (349, 18327), (354, 18348), (363, 18378), (367, 18390), (372, 18423), (373, 18426), (386, 18489), (404, 18564), (406, 18570), (416, 18624), (417, 18627), (425, 18654), (440, 18729), (443, 18741), (444, 18744), (457, 18810), (462, 18834), (468, 18864), (482, 18924), (483, 18927), (491, 18963), (494, 18981), (500, 19002), (524, 19098), (527, 19116), (529, 19125), (530, 19137), (537, 19173), (546, 19224), (558, 19284), (565, 19338), (585, 19440), (597, 19518), (608, 19575), (612, 19599), (618, 19653), (621, 19701), (630, 19743), (633, 19767), (634, 19770),

Gene: MulchExplorer_20 Start: 18519, Stop: 21056, Start Num: 46
Candidate Starts for MulchExplorer_20:
(40, 18507), (Start: 46 @18519 has 244 MA's), (58, 18540), (Start: 69 @18561 has 1 MA's), (82, 18600), (113, 18669), (115, 18678), (116, 18681), (123, 18699), (136, 18732), (140, 18747), (155, 18795), (188, 18906), (189, 18909), (202, 18939), (205, 18951), (206, 18954), (221, 19032), (226, 19056), (239, 19122), (250, 19167), (256, 19197), (257, 19203), (259, 19221), (267, 19245), (270, 19254), (284, 19287), (286, 19293), (293, 19323), (305, 19362), (308, 19374), (311, 19383), (315, 19398), (317, 19401), (342, 19512), (343, 19515), (344, 19524), (345, 19530), (348, 19545), (349, 19548), (354, 19569), (363, 19599), (367, 19611), (372, 19644), (393, 19755), (395, 19758), (404, 19785), (406, 19791), (416, 19845), (417, 19848), (438, 19935), (440, 19950), (443, 19962), (444, 19965), (457, 20031), (462, 20055), (466, 20076), (468, 20085), (478, 20127), (482, 20145), (483, 20148), (491, 20184), (494, 20202), (497, 20214), (500, 20223), (509, 20250), (524, 20319), (527, 20337), (529, 20346), (530, 20358), (537, 20394), (542, 20424), (546, 20445), (552, 20469), (558, 20505), (565, 20559), (577, 20619), (585, 20661), (597, 20739), (608, 20796), (612, 20820), (618, 20874), (621, 20922), (630, 20964), (633, 20988), (634, 20991),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 60

Candidate Starts for Murai_59:
(Start: 60 @36318 has 35 MA's), (74, 36351), (100, 36420), (101, 36423), (109, 36447), (116, 36471), (126, 36495), (136, 36528), (193, 36735), (197, 36747), (198, 36750), (231, 36897), (233, 36927), (239, 36951), (250, 36981), (251, 36984), (256, 37011), (259, 37035), (269, 37065), (290, 37122), (305, 37182), (308, 37194), (315, 37218), (317, 37221), (326, 37263), (348, 37359), (349, 37362), (409, 37617), (440, 37761), (452, 37821), (465, 37893), (466, 37896), (487, 37992), (527, 38166), (530, 38187), (548, 38280), (551, 38292), (565, 38382), (581, 38457), (596, 38502), (626, 38703), (632, 38757), (637, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 88
Candidate Starts for Murica_25:
(Start: 88 @22268 has 134 MA's), (153, 22445), (158, 22466), (212, 22613), (240, 22754), (249, 22787), (256, 22820), (263, 22856), (293, 22949), (311, 23009), (317, 23027), (346, 23159), (357, 23204), (386, 23336), (393, 23381), (411, 23441), (437, 23555), (440, 23576), (449, 23615), (452, 23636), (454, 23651), (489, 23801), (491, 23807), (494, 23825), (511, 23879), (527, 23963), (545, 24056), (593, 24302), (621, 24518), (634, 24602), (641, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 88
Candidate Starts for Murphy_27:
(Start: 88 @22263 has 134 MA's), (153, 22440), (158, 22461), (212, 22608), (240, 22749), (249, 22782), (256, 22815), (263, 22851), (293, 22944), (311, 23004), (317, 23022), (346, 23154), (357, 23199), (386, 23331), (393, 23376), (411, 23436), (437, 23550), (440, 23571), (449, 23610), (452, 23631), (454, 23646), (489, 23796), (491, 23802), (494, 23820), (511, 23874), (527, 23958), (545, 24051), (593, 24297), (621, 24513), (634, 24597), (641, 24630),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 46
Candidate Starts for Mutaforma13_18:
(40, 17432), (Start: 46 @17444 has 244 MA's), (58, 17465), (Start: 69 @17486 has 1 MA's), (81, 17522), (82, 17525), (113, 17594), (115, 17603), (116, 17606), (123, 17624), (136, 17657), (140, 17672), (155, 17720), (186, 17825), (188, 17831), (189, 17834), (202, 17864), (205, 17876), (206, 17879), (226, 17981), (239, 18047), (250, 18092), (256, 18122), (257, 18128), (259, 18146), (267, 18170), (270, 18179), (284, 18212), (286, 18218), (301, 18269), (305, 18287), (308, 18299), (311, 18308), (315, 18323), (318, 18329), (342, 18437), (344, 18449), (345, 18455), (348, 18470), (349, 18473), (354, 18494), (363, 18524), (367, 18536), (372, 18569), (386, 18635), (393, 18680), (395, 18683), (404, 18710), (406, 18716), (416, 18770), (417, 18773), (425, 18800), (440, 18875), (443, 18887), (444, 18890), (457, 18956), (462, 18980), (468, 19010), (478, 19052), (482, 19070), (483, 19073), (491, 19109), (494, 19127), (500, 19148), (509, 19175), (524, 19244), (527, 19262), (529, 19271), (530, 19283), (537, 19319), (546, 19370), (550, 19388), (558, 19430), (565, 19484), (585, 19586), (608, 19721), (612, 19745), (618, 19799), (621, 19847), (630, 19889), (633, 19913), (634, 19916),

Gene: Mwanjiwa_18 Start: 17382, Stop: 19919, Start Num: 46
Candidate Starts for Mwanjiwa_18:
(Start: 46 @17382 has 244 MA's), (58, 17403), (Start: 69 @17424 has 1 MA's), (82, 17463), (113, 17532), (115, 17541), (116, 17544), (123, 17562), (136, 17595), (140, 17610), (188, 17769), (189, 17772), (206, 17817), (221, 17895), (226, 17919), (239, 17985), (250, 18030), (256, 18060), (257, 18066), (259, 18084), (267, 18108), (270, 18117), (284, 18150), (286, 18156), (301, 18207), (305, 18225), (308, 18237), (311, 18246), (315, 18261), (342, 18375), (344, 18387), (345, 18393), (348, 18408), (349, 18411), (354, 18432), (363, 18462), (367, 18474), (372, 18507), (386, 18573), (393, 18618), (395, 18621), (404, 18648), (416, 18708), (417, 18711), (440, 18813), (443, 18825), (444, 18828), (457, 18894), (461, 18915), (462, 18918), (466, 18939), (468, 18948), (482, 19008), (483, 19011), (491, 19047), (494, 19065), (497, 19077), (500, 19086), (509, 19113), (524, 19182), (527, 19200), (529, 19209), (530, 19221), (537, 19257), (542, 19287), (546, 19308), (552, 19332), (558,

19368), (565, 19422), (585, 19524), (597, 19602), (608, 19659), (612, 19683), (618, 19737), (621, 19785), (630, 19827), (633, 19851), (634, 19854),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 88
Candidate Starts for Myrale_26:
(Start: 88 @22154 has 134 MA's), (153, 22331), (158, 22352), (212, 22499), (240, 22640), (249, 22673), (256, 22706), (263, 22742), (293, 22835), (311, 22895), (317, 22913), (335, 22994), (386, 23222), (393, 23267), (440, 23462), (441, 23468), (444, 23477), (452, 23522), (454, 23537), (491, 23693), (494, 23711), (496, 23720), (512, 23774), (527, 23849), (528, 23852), (564, 24062), (566, 24074), (593, 24188), (621, 24404), (634, 24488), (639, 24512), (641, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 88
Candidate Starts for Nala_26:
(Start: 88 @22310 has 134 MA's), (153, 22487), (158, 22508), (212, 22655), (240, 22796), (249, 22829), (256, 22862), (263, 22898), (293, 22991), (311, 23051), (317, 23069), (346, 23201), (357, 23246), (386, 23378), (393, 23423), (411, 23483), (437, 23597), (440, 23618), (449, 23657), (452, 23678), (454, 23693), (489, 23843), (491, 23849), (494, 23867), (511, 23921), (527, 24005), (545, 24098), (593, 24344), (621, 24560), (634, 24644), (641, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 36
Candidate Starts for Nebkiss_22:
(Start: 36 @19932 has 2 MA's), (52, 19989), (68, 20022), (102, 20100), (103, 20103), (124, 20157), (127, 20169), (149, 20217), (161, 20262), (183, 20334), (189, 20355), (195, 20376), (205, 20397), (206, 20400), (214, 20445), (233, 20544), (247, 20589), (257, 20634), (270, 20685), (277, 20703), (311, 20808), (313, 20814), (315, 20823), (317, 20826), (323, 20853), (328, 20874), (335, 20907), (336, 20916), (342, 20937), (344, 20949), (348, 20970), (363, 21024), (367, 21036), (372, 21069), (387, 21144), (392, 21171), (422, 21294), (431, 21321), (435, 21345), (440, 21375), (446, 21399), (453, 21441), (454, 21450), (479, 21579), (485, 21606), (497, 21657), (525, 21768), (527, 21783), (579, 22074), (608, 22242), (612, 22266), (630, 22410), (634, 22437), (636, 22443), (637, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 88
Candidate Starts for NelitzaMV_26:
(Start: 88 @22353 has 134 MA's), (153, 22530), (158, 22551), (212, 22698), (240, 22839), (249, 22872), (256, 22905), (263, 22941), (293, 23034), (311, 23094), (317, 23112), (350, 23268), (357, 23289), (382, 23409), (386, 23421), (393, 23466), (440, 23661), (444, 23676), (452, 23721), (454, 23736), (491, 23892), (494, 23910), (496, 23919), (527, 24048), (528, 24051), (564, 24261), (566, 24273), (593, 24387), (621, 24603), (634, 24687), (639, 24711), (641, 24720),

Gene: NewHope4_19 Start: 17446, Stop: 19983, Start Num: 46
Candidate Starts for NewHope4_19:
(Start: 46 @17446 has 244 MA's), (58, 17467), (Start: 69 @17488 has 1 MA's), (81, 17524), (82, 17527), (113, 17596), (115, 17605), (116, 17608), (123, 17626), (136, 17659), (140, 17674), (155, 17722), (186, 17827), (188, 17833), (189, 17836), (205, 17878), (206, 17881), (226, 17983), (239, 18049), (250, 18094), (256, 18124), (257, 18130), (259, 18148), (267, 18172), (270, 18181), (284, 18214), (286, 18220), (301, 18271), (305, 18289), (308, 18301), (311, 18310), (315, 18325), (318, 18331), (342, 18439), (344, 18451), (345, 18457), (348, 18472), (349, 18475), (354, 18496), (363, 18526), (367, 18538), (372, 18571), (386, 18637), (393, 18682), (395, 18685), (404, 18712), (406, 18718), (416, 18772), (417, 18775), (438, 18862), (440, 18877), (443, 18889), (444, 18892), (457, 18958), (466, 19003), (468, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (497, 19141), (500, 19150), (509, 19177), (524, 19246), (527, 19264), (529, 19273), (530, 19285), (537, 19321), (542, 19351), (546, 19372), (552, 19396), (558, 19432), (565, 19486), (577, 19546), (585, 19588), (597, 19666), (608, 19723), (612, 19747), (618, 19801), (621, 19849), (630, 19891), (633, 19915), (634, 19918),

Gene: Nibley_31 Start: 26436, Stop: 28931, Start Num: 46
Candidate Starts for Nibley_31:
(Start: 46 @26436 has 244 MA's), (123, 26631), (136, 26667), (140, 26682), (174, 26769), (179, 26784), (189, 26820), (190, 26826), (206, 26859), (209, 26871), (247, 27042), (250, 27051), (256, 27075), (269, 27129), (284, 27165), (286, 27171), (293, 27201), (303, 27231), (308, 27252), (311, 27261), (315, 27276), (333, 27345), (349, 27426), (350, 27435), (357, 27456), (358, 27459), (367, 27489), (373, 27525), (382, 27576), (384, 27585), (386, 27588), (390, 27615), (392, 27624), (399, 27645), (416, 27723), (417, 27726), (435, 27798), (441, 27834), (443, 27840), (451, 27882), (452, 27888), (461, 27930), (462, 27933), (466, 27954), (467, 27960), (468, 27963), (475, 27993), (507, 28134), (511, 28143), (512, 28152), (518, 28185), (524, 28209), (525, 28212), (527, 28227), (530, 28248), (537, 28284), (538, 28290), (539, 28296), (543, 28317), (548, 28344), (569, 28479), (584, 28551), (586, 28557), (593, 28575), (608, 28674), (621, 28791), (635, 28872), (637, 28875), (641, 28902),

Gene: Nichirin_18 Start: 17599, Stop: 20136, Start Num: 46
Candidate Starts for Nichirin_18:
(Start: 46 @17599 has 244 MA's), (58, 17620), (Start: 69 @17641 has 1 MA's), (82, 17680), (113, 17749), (115, 17758), (116, 17761), (123, 17779), (140, 17827), (188, 17986), (189, 17989), (206, 18034), (221, 18112), (225, 18133), (226, 18136), (239, 18202), (256, 18277), (257, 18283), (267, 18325), (269, 18331), (270, 18334), (284, 18367), (286, 18373), (293, 18403), (301, 18424), (308, 18454), (311, 18463), (336, 18571), (340, 18583), (342, 18592), (343, 18595), (344, 18604), (345, 18610), (348, 18625), (349, 18628), (354, 18649), (367, 18691), (372, 18724), (404, 18865), (406, 18871), (416, 18925), (417, 18928), (425, 18955), (440, 19030), (443, 19042), (444, 19045), (457, 19111), (461, 19132), (462, 19135), (466, 19156), (478, 19207), (482, 19225), (483, 19228), (489, 19258), (494, 19282), (500, 19303), (509, 19330), (511, 19336), (524, 19399), (527, 19417), (529, 19426), (530, 19438), (537, 19474), (542, 19504), (546, 19525), (577, 19699), (585, 19741), (597, 19819), (608, 19876), (612, 19900), (613, 19915), (618, 19954), (621, 20002), (630, 20044), (633, 20068), (634, 20071),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 60
Candidate Starts for NiebruSaylor_57:
(Start: 60 @35525 has 35 MA's), (74, 35558), (100, 35627), (101, 35630), (109, 35654), (116, 35678), (126, 35702), (136, 35735), (193, 35942), (197, 35954), (198, 35957), (231, 36104), (233, 36134), (239, 36158), (250, 36188), (251, 36191), (256, 36218), (259, 36242), (269, 36272), (290, 36329), (294, 36353), (305, 36389), (308, 36401), (315, 36425), (317, 36428), (326, 36470), (348, 36566), (349, 36569), (409, 36824), (440, 36968), (452, 37028), (465, 37100), (466, 37103), (487, 37199), (527, 37373), (530, 37394), (548, 37487), (551, 37499), (565, 37589), (581, 37664), (596, 37709), (626, 37910), (632, 37964), (637, 37979),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 46
Candidate Starts for Nimbo_18:
(Start: 46 @17400 has 244 MA's), (58, 17421), (Start: 69 @17442 has 1 MA's), (82, 17481), (113, 17550), (115, 17559), (116, 17562), (123, 17580), (140, 17628), (155, 17676), (188, 17787), (189, 17790), (206, 17835), (221, 17913), (226, 17937), (239, 18003), (256, 18078), (257, 18084), (259, 18102), (267, 18126), (270, 18135), (284, 18168), (286, 18174), (293, 18204), (301, 18225), (308, 18255), (311, 18264), (336, 18372), (340, 18384), (342, 18393), (343, 18396), (345, 18411), (348, 18426), (349, 18429), (354, 18450), (367, 18492), (372, 18525), (393, 18636), (395, 18639), (404, 18666), (406, 18672), (416, 18726), (417, 18729), (425, 18756), (440, 18831), (443, 18843), (444, 18846), (457, 18912), (461, 18933), (462, 18936), (466, 18957), (468, 18966), (478, 19008), (482, 19026), (483, 19029), (489, 19059), (494, 19083), (497, 19095), (500, 19104), (524, 19200), (527, 19218), (529, 19227), (530, 19239), (537, 19275), (542, 19305), (545, 19314), (546, 19326), (558, 19386), (565, 19440), (577, 19500), (585, 19542), (608, 19677), (612, 19701), (618, 19755), (621,

19803), (630, 19845), (633, 19869), (634, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 88
Candidate Starts for Nimrod_26:
(Start: 88 @22529 has 134 MA's), (153, 22706), (158, 22727), (212, 22874), (240, 23015), (249, 23048), (256, 23081), (263, 23117), (293, 23210), (311, 23270), (317, 23288), (346, 23420), (357, 23465), (386, 23597), (393, 23642), (411, 23702), (437, 23816), (440, 23837), (449, 23876), (452, 23897), (454, 23912), (489, 24062), (491, 24068), (494, 24086), (511, 24140), (527, 24224), (545, 24317), (593, 24563), (621, 24779), (634, 24863), (641, 24896),

Gene: Nish23_30 Start: 25681, Stop: 28524, Start Num: 16
Candidate Starts for Nish23_30:
(Start: 16 @25681 has 10 MA's), (25, 25813), (26, 25825), (28, 25834), (42, 25903), (44, 25909), (72, 25969), (78, 25990), (96, 26038), (111, 26080), (118, 26104), (131, 26137), (142, 26173), (148, 26185), (173, 26278), (189, 26335), (201, 26374), (229, 26500), (240, 26569), (248, 26599), (257, 26641), (270, 26692), (301, 26782), (305, 26800), (326, 26881), (335, 26920), (340, 26941), (372, 27079), (379, 27118), (392, 27181), (417, 27283), (465, 27508), (543, 27871), (548, 27898), (594, 28141), (595, 28174), (600, 28198), (617, 28318), (628, 28396), (641, 28483), (646, 28498), (648, 28504),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 46
Candidate Starts for Nitzel_19:
(Start: 46 @18136 has 244 MA's), (58, 18157), (Start: 69 @18178 has 1 MA's), (82, 18217), (113, 18286), (115, 18295), (116, 18298), (123, 18316), (136, 18349), (140, 18364), (155, 18412), (186, 18517), (188, 18523), (189, 18526), (205, 18568), (206, 18571), (226, 18673), (239, 18739), (250, 18784), (256, 18814), (257, 18820), (259, 18838), (267, 18862), (270, 18871), (284, 18904), (286, 18910), (301, 18961), (305, 18979), (308, 18991), (311, 19000), (315, 19015), (318, 19021), (342, 19129), (344, 19141), (345, 19147), (348, 19162), (349, 19165), (354, 19186), (363, 19216), (367, 19228), (372, 19261), (386, 19327), (393, 19372), (395, 19375), (404, 19402), (406, 19408), (416, 19462), (417, 19465), (425, 19492), (440, 19567), (443, 19579), (444, 19582), (457, 19648), (462, 19672), (468, 19702), (478, 19744), (482, 19762), (483, 19765), (491, 19801), (494, 19819), (497, 19831), (500, 19840), (509, 19867), (524, 19936), (527, 19954), (529, 19963), (530, 19975), (537, 20011), (546, 20062), (550, 20080), (558, 20122), (565, 20176), (577, 20236), (585, 20278), (608, 20413), (612, 20437), (618, 20491), (621, 20539), (630, 20581), (633, 20605), (634, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 46
Candidate Starts for Nivrat_18:
(Start: 46 @17405 has 244 MA's), (83, 17486), (113, 17555), (115, 17564), (116, 17567), (123, 17585), (140, 17633), (154, 17678), (188, 17792), (189, 17795), (192, 17807), (203, 17828), (205, 17837), (206, 17840), (215, 17888), (221, 17918), (233, 17984), (240, 18017), (250, 18053), (254, 18077), (269, 18137), (270, 18140), (277, 18158), (299, 18221), (301, 18224), (305, 18242), (311, 18263), (317, 18281), (323, 18308), (328, 18329), (335, 18362), (345, 18410), (346, 18413), (348, 18425), (349, 18428), (356, 18455), (363, 18479), (372, 18524), (399, 18650), (405, 18674), (432, 18782), (440, 18833), (443, 18845), (444, 18848), (452, 18893), (454, 18908), (461, 18935), (466, 18959), (478, 19010), (482, 19028), (483, 19031), (484, 19043), (497, 19097), (511, 19139), (538, 19283), (548, 19337), (549, 19343), (550, 19346), (555, 19382), (557, 19385), (559, 19394), (560, 19421), (599, 19622), (621, 19793), (629, 19832), (636, 19871), (637, 19874),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 88
Candidate Starts for NoSleep_27:
(Start: 88 @22023 has 134 MA's), (153, 22200), (158, 22221), (212, 22368), (249, 22542), (256, 22575), (263, 22611), (293, 22704), (311, 22764), (317, 22782), (346, 22914), (357, 22959), (386, 23091), (393, 23136), (411, 23196), (437, 23310), (440, 23331), (449, 23370), (452, 23391), (454,

23406), (489, 23556), (491, 23562), (494, 23580), (511, 23634), (527, 23718), (545, 23811), (593, 24057), (621, 24273), (634, 24357), (641, 24390),

Gene: NonchalantPear_26 Start: 21979, Stop: 24375, Start Num: 88
Candidate Starts for NonchalantPear_26:
(Start: 88 @21979 has 134 MA's), (153, 22156), (158, 22177), (212, 22324), (240, 22465), (249, 22498), (256, 22531), (263, 22567), (293, 22660), (311, 22720), (317, 22738), (346, 22870), (357, 22915), (386, 23047), (393, 23092), (411, 23152), (437, 23266), (440, 23287), (449, 23326), (452, 23347), (454, 23362), (489, 23512), (491, 23518), (494, 23536), (511, 23590), (527, 23674), (545, 23767), (593, 24013), (621, 24229), (634, 24313), (641, 24346),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 46
Candidate Starts for NormanBulbieJr_18:
(Start: 46 @17393 has 244 MA's), (83, 17474), (113, 17543), (115, 17552), (116, 17555), (123, 17573), (140, 17621), (154, 17666), (188, 17780), (189, 17783), (192, 17795), (203, 17816), (205, 17825), (206, 17828), (215, 17876), (221, 17906), (233, 17972), (240, 18005), (250, 18041), (254, 18065), (269, 18125), (270, 18128), (277, 18146), (299, 18209), (301, 18212), (305, 18230), (311, 18251), (317, 18269), (323, 18296), (328, 18317), (335, 18350), (344, 18392), (345, 18398), (346, 18401), (349, 18416), (356, 18443), (357, 18446), (363, 18467), (367, 18479), (372, 18512), (390, 18605), (416, 18713), (422, 18737), (425, 18743), (430, 18761), (431, 18764), (435, 18788), (440, 18818), (446, 18842), (452, 18878), (453, 18884), (454, 18893), (461, 18920), (474, 18983), (478, 19007), (479, 19022), (489, 19064), (502, 19115), (525, 19211), (527, 19226), (529, 19235), (533, 19259), (545, 19322), (552, 19358), (606, 19664), (612, 19709), (621, 19811),

Gene: Nova_30 Start: 24743, Stop: 27013, Start Num: 157
Candidate Starts for Nova_30:
(Start: 157 @24743 has 22 MA's), (196, 24878), (199, 24887), (233, 25061), (234, 25067), (237, 25079), (273, 25232), (282, 25247), (288, 25262), (320, 25376), (382, 25643), (383, 25649), (391, 25694), (412, 25781), (455, 25982), (456, 25988), (466, 26036), (472, 26066), (476, 26090), (515, 26279), (523, 26306), (530, 26354), (544, 26426), (552, 26465), (553, 26486), (556, 26501), (559, 26519), (561, 26549), (616, 26834), (621, 26876), (647, 27002),

Gene: NovoPizza_23 Start: 21830, Stop: 24478, Start Num: 24
Candidate Starts for NovoPizza_23:
(Start: 24 @21830 has 1 MA's), (40, 21926), (124, 22154), (133, 22187), (143, 22217), (148, 22226), (149, 22229), (165, 22304), (184, 22373), (187, 22388), (194, 22412), (208, 22463), (215, 22502), (231, 22571), (232, 22583), (238, 22616), (269, 22736), (305, 22850), (308, 22862), (323, 22916), (334, 22967), (342, 23000), (370, 23126), (382, 23186), (389, 23228), (398, 23267), (416, 23348), (418, 23363), (421, 23378), (434, 23435), (444, 23483), (448, 23504), (454, 23543), (469, 23603), (476, 23627), (478, 23636), (480, 23654), (482, 23660), (484, 23675), (485, 23678), (492, 23714), (519, 23810), (529, 23852), (544, 23942), (545, 23945), (550, 23975), (567, 24098), (573, 24119), (598, 24272), (625, 24470),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 16
Candidate Starts for Oaker_29:
(Start: 16 @25939 has 10 MA's), (25, 26071), (26, 26083), (28, 26092), (42, 26161), (44, 26167), (72, 26227), (78, 26248), (96, 26296), (111, 26338), (118, 26362), (131, 26395), (142, 26431), (148, 26443), (173, 26536), (189, 26593), (201, 26632), (240, 26827), (248, 26857), (257, 26899), (270, 26950), (301, 27040), (305, 27058), (326, 27139), (335, 27178), (340, 27199), (372, 27337), (379, 27376), (392, 27439), (417, 27541), (465, 27766), (543, 28129), (548, 28156), (594, 28399), (595, 28432), (600, 28456), (617, 28576), (628, 28654), (641, 28741), (646, 28756), (648, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 46

Candidate Starts for Ochi17_18:
(Start: 46 @17634 has 244 MA's), (58, 17655), (Start: 69 @17676 has 1 MA's), (82, 17715), (113, 17784), (115, 17793), (116, 17796), (123, 17814), (140, 17862), (188, 18021), (189, 18024), (205, 18066), (206, 18069), (221, 18147), (225, 18168), (226, 18171), (239, 18237), (240, 18246), (250, 18282), (256, 18312), (257, 18318), (267, 18360), (269, 18366), (270, 18369), (284, 18402), (286, 18408), (293, 18438), (301, 18459), (308, 18489), (311, 18498), (336, 18606), (340, 18618), (342, 18627), (343, 18630), (344, 18639), (345, 18645), (348, 18660), (349, 18663), (354, 18684), (367, 18726), (372, 18759), (404, 18900), (406, 18906), (416, 18960), (417, 18963), (425, 18990), (440, 19065), (443, 19077), (444, 19080), (457, 19146), (461, 19167), (462, 19170), (466, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (497, 19329), (524, 19434), (527, 19452), (529, 19461), (530, 19473), (537, 19509), (542, 19539), (546, 19560), (552, 19584), (558, 19620), (577, 19734), (585, 19776), (597, 19854), (608, 19911), (612, 19935), (618, 19989), (621, 20037), (630, 20079), (633, 20103), (634, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 46
Candidate Starts for OfUltron_18:
(Start: 46 @17634 has 244 MA's), (58, 17655), (Start: 69 @17676 has 1 MA's), (82, 17715), (113, 17784), (115, 17793), (116, 17796), (123, 17814), (140, 17862), (188, 18021), (189, 18024), (205, 18066), (206, 18069), (221, 18147), (225, 18168), (226, 18171), (239, 18237), (240, 18246), (250, 18282), (256, 18312), (257, 18318), (267, 18360), (269, 18366), (270, 18369), (284, 18402), (286, 18408), (293, 18438), (301, 18459), (308, 18489), (311, 18498), (336, 18606), (340, 18618), (342, 18627), (343, 18630), (344, 18639), (345, 18645), (348, 18660), (349, 18663), (354, 18684), (367, 18726), (372, 18759), (404, 18900), (406, 18906), (416, 18960), (417, 18963), (425, 18990), (440, 19065), (443, 19077), (444, 19080), (457, 19146), (461, 19167), (462, 19170), (466, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (497, 19329), (524, 19434), (527, 19452), (529, 19461), (530, 19473), (537, 19509), (542, 19539), (546, 19560), (552, 19584), (558, 19620), (577, 19734), (585, 19776), (597, 19854), (608, 19911), (612, 19935), (618, 19989), (621, 20037), (630, 20079), (633, 20103), (634, 20106),

Gene: Ogopogo_21 Start: 17660, Stop: 20149, Start Num: 46
Candidate Starts for Ogopogo_21:
(Start: 46 @17660 has 244 MA's), (58, 17681), (Start: 69 @17702 has 1 MA's), (84, 17741), (113, 17810), (115, 17819), (116, 17822), (123, 17840), (140, 17888), (155, 17936), (179, 17990), (189, 18026), (190, 18032), (191, 18035), (204, 18053), (209, 18077), (214, 18101), (229, 18164), (247, 18248), (250, 18257), (256, 18281), (259, 18305), (267, 18329), (269, 18335), (277, 18356), (286, 18377), (293, 18407), (303, 18437), (308, 18458), (333, 18551), (335, 18566), (336, 18575), (342, 18596), (343, 18599), (363, 18683), (364, 18686), (367, 18695), (371, 18722), (373, 18731), (380, 18770), (384, 18791), (386, 18794), (392, 18830), (399, 18851), (416, 18929), (417, 18932), (433, 18986), (443, 19046), (462, 19139), (465, 19157), (466, 19160), (475, 19196), (486, 19250), (489, 19259), (507, 19337), (512, 19355), (519, 19391), (520, 19394), (524, 19412), (525, 19415), (527, 19430), (530, 19451), (537, 19487), (539, 19499), (552, 19562), (558, 19595), (569, 19682), (580, 19730), (584, 19754), (590, 19781), (593, 19790), (596, 19829), (604, 19868), (608, 19892), (611, 19913), (621, 20009), (627, 20030), (637, 20093), (641, 20120), (644, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 46
Candidate Starts for Oksu_19:
(Start: 46 @17479 has 244 MA's), (58, 17500), (Start: 69 @17521 has 1 MA's), (82, 17560), (113, 17629), (115, 17638), (116, 17641), (123, 17659), (140, 17707), (186, 17860), (189, 17869), (206, 17914), (225, 18013), (226, 18016), (239, 18082), (256, 18157), (257, 18163), (259, 18181), (267, 18205), (269, 18211), (270, 18214), (284, 18247), (286, 18253), (293, 18283), (301, 18304), (308, 18334), (311, 18343), (315, 18358), (317, 18361), (342, 18472), (343, 18475), (344, 18484), (345, 18490), (348, 18505), (349, 18508), (354, 18529), (367, 18571), (372, 18604), (404, 18745), (406, 18751), (416, 18805), (417, 18808), (425, 18835), (440, 18910), (443, 18922), (444, 18925), (457,

18991), (461, 19012), (462, 19015), (466, 19036), (478, 19087), (482, 19105), (483, 19108), (489, 19138), (494, 19162), (497, 19174), (524, 19279), (527, 19297), (529, 19306), (530, 19318), (537, 19354), (542, 19384), (546, 19405), (552, 19429), (558, 19465), (577, 19579), (585, 19621), (597, 19699), (608, 19756), (612, 19780), (618, 19834), (621, 19882), (630, 19924), (633, 19948), (634, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 46
Candidate Starts for OldBen_18:
(40, 17358), (Start: 46 @17370 has 244 MA's), (58, 17391), (Start: 69 @17412 has 1 MA's), (82, 17451), (113, 17520), (115, 17529), (116, 17532), (123, 17550), (140, 17598), (155, 17646), (188, 17757), (189, 17760), (206, 17805), (221, 17883), (226, 17907), (239, 17973), (250, 18018), (256, 18048), (257, 18054), (259, 18072), (267, 18096), (270, 18105), (284, 18138), (286, 18144), (293, 18174), (305, 18213), (308, 18225), (311, 18234), (315, 18249), (317, 18252), (342, 18363), (343, 18366), (344, 18375), (345, 18381), (348, 18396), (349, 18399), (354, 18420), (363, 18450), (367, 18462), (372, 18495), (393, 18606), (395, 18609), (404, 18636), (406, 18642), (416, 18696), (417, 18699), (440, 18801), (443, 18813), (444, 18816), (457, 18882), (462, 18906), (466, 18927), (468, 18936), (482, 18996), (483, 18999), (491, 19035), (494, 19053), (500, 19074), (509, 19101), (524, 19170), (527, 19188), (529, 19197), (530, 19209), (537, 19245), (546, 19296), (550, 19314), (558, 19356), (565, 19410), (585, 19512), (608, 19647), (612, 19671), (618, 19725), (627, 19794), (633, 19839), (634, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 46
Candidate Starts for OlympiaSaint_18:
(Start: 46 @17593 has 244 MA's), (83, 17674), (113, 17743), (115, 17752), (116, 17755), (123, 17773), (140, 17821), (154, 17866), (188, 17980), (189, 17983), (192, 17995), (203, 18016), (205, 18025), (206, 18028), (215, 18076), (221, 18106), (233, 18172), (240, 18205), (250, 18241), (254, 18265), (269, 18325), (270, 18328), (277, 18346), (299, 18409), (301, 18412), (305, 18430), (311, 18451), (317, 18469), (323, 18496), (328, 18517), (335, 18550), (344, 18592), (345, 18598), (346, 18601), (349, 18616), (356, 18643), (357, 18646), (363, 18667), (367, 18679), (372, 18712), (390, 18805), (416, 18913), (422, 18937), (425, 18943), (430, 18961), (431, 18964), (435, 18988), (440, 19018), (446, 19042), (452, 19078), (453, 19084), (454, 19093), (461, 19120), (474, 19183), (478, 19207), (479, 19222), (489, 19264), (502, 19315), (525, 19411), (527, 19426), (529, 19435), (533, 19459), (545, 19522), (552, 19558), (606, 19864), (612, 19909), (621, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 46
Candidate Starts for Omega_38:
(Start: 46 @31431 has 244 MA's), (123, 31626), (136, 31662), (140, 31677), (155, 31725), (188, 31836), (189, 31839), (202, 31869), (206, 31884), (221, 31962), (226, 31986), (239, 32052), (250, 32097), (256, 32127), (257, 32133), (259, 32151), (267, 32175), (270, 32184), (284, 32217), (286, 32223), (293, 32253), (305, 32292), (308, 32304), (311, 32313), (315, 32328), (317, 32331), (342, 32442), (343, 32445), (344, 32454), (345, 32460), (348, 32475), (349, 32478), (354, 32499), (363, 32529), (367, 32541), (372, 32574), (386, 32640), (393, 32685), (395, 32688), (404, 32715), (406, 32721), (416, 32775), (417, 32778), (438, 32865), (440, 32880), (443, 32892), (444, 32895), (457, 32961), (466, 33006), (468, 33015), (482, 33075), (483, 33078), (491, 33114), (494, 33132), (497, 33144), (500, 33153), (509, 33180), (524, 33249), (527, 33267), (529, 33276), (530, 33288), (537, 33324), (542, 33354), (546, 33375), (552, 33399), (558, 33435), (565, 33489), (577, 33549), (585, 33591), (608, 33726), (612, 33750), (618, 33804), (621, 33852), (630, 33894), (633, 33918), (634, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 46
Candidate Starts for Optimus_37:
(33, 30718), (Start: 46 @30775 has 244 MA's), (123, 30970), (136, 31006), (140, 31021), (155, 31069), (186, 31174), (189, 31183), (206, 31228), (225, 31327), (226, 31330), (239, 31396), (256, 31471),

(257, 31477), (259, 31495), (267, 31519), (270, 31528), (284, 31561), (286, 31567), (293, 31597), (305, 31636), (308, 31648), (311, 31657), (342, 31786), (343, 31789), (344, 31798), (345, 31804), (348, 31819), (349, 31822), (354, 31843), (363, 31873), (367, 31885), (372, 31918), (393, 32029), (395, 32032), (404, 32059), (406, 32065), (416, 32119), (417, 32122), (440, 32224), (443, 32236), (444, 32239), (457, 32305), (462, 32329), (466, 32350), (478, 32401), (482, 32419), (483, 32422), (489, 32452), (494, 32476), (497, 32488), (500, 32497), (524, 32593), (527, 32611), (529, 32620), (530, 32632), (542, 32698), (545, 32707), (546, 32719), (558, 32779), (585, 32935), (608, 33070), (612, 33094), (618, 33148), (627, 33217), (633, 33262), (634, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 88
Candidate Starts for OrionPax_27:
(Start: 88 @22029 has 134 MA's), (153, 22206), (158, 22227), (212, 22374), (249, 22548), (256, 22581), (263, 22617), (293, 22710), (311, 22770), (317, 22788), (346, 22920), (357, 22965), (386, 23097), (393, 23142), (411, 23202), (437, 23316), (440, 23337), (449, 23376), (452, 23397), (454, 23412), (489, 23562), (491, 23568), (494, 23586), (511, 23640), (527, 23724), (545, 23817), (593, 24063), (621, 24279), (634, 24363), (641, 24396),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 46
Candidate Starts for Ovechkin_18:
(Start: 46 @17427 has 244 MA's), (58, 17448), (Start: 69 @17469 has 1 MA's), (81, 17505), (82, 17508), (113, 17577), (115, 17586), (116, 17589), (123, 17607), (136, 17640), (140, 17655), (155, 17703), (188, 17814), (189, 17817), (202, 17847), (205, 17859), (206, 17862), (221, 17940), (226, 17964), (239, 18030), (250, 18075), (256, 18105), (257, 18111), (259, 18129), (267, 18153), (270, 18162), (284, 18195), (286, 18201), (293, 18231), (305, 18270), (308, 18282), (311, 18291), (315, 18306), (317, 18309), (342, 18420), (343, 18423), (344, 18432), (345, 18438), (348, 18453), (349, 18456), (354, 18477), (363, 18507), (367, 18519), (372, 18552), (393, 18663), (395, 18666), (404, 18693), (406, 18699), (416, 18753), (417, 18756), (440, 18858), (443, 18870), (444, 18873), (457, 18939), (462, 18963), (466, 18984), (468, 18993), (482, 19053), (483, 19056), (491, 19092), (494, 19110), (497, 19122), (500, 19131), (509, 19158), (524, 19227), (527, 19245), (529, 19254), (530, 19266), (537, 19302), (542, 19332), (546, 19353), (552, 19377), (558, 19413), (565, 19467), (577, 19527), (585, 19569), (597, 19647), (608, 19704), (612, 19728), (618, 19782), (621, 19830), (630, 19872), (633, 19896), (634, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 46
Candidate Starts for OwlsT2W_20:
(Start: 46 @17765 has 244 MA's), (90, 17855), (113, 17915), (115, 17924), (116, 17927), (123, 17945), (140, 17993), (154, 18038), (188, 18152), (189, 18155), (192, 18167), (203, 18188), (205, 18197), (206, 18200), (221, 18278), (233, 18344), (240, 18377), (250, 18413), (254, 18437), (269, 18497), (270, 18500), (277, 18518), (299, 18581), (301, 18584), (305, 18602), (311, 18623), (317, 18641), (323, 18668), (328, 18689), (335, 18722), (344, 18764), (345, 18770), (346, 18773), (349, 18788), (356, 18815), (357, 18818), (363, 18839), (367, 18851), (372, 18884), (390, 18977), (416, 19085), (422, 19109), (425, 19115), (430, 19133), (431, 19136), (435, 19160), (440, 19190), (446, 19214), (452, 19250), (453, 19256), (454, 19265), (461, 19292), (474, 19355), (478, 19379), (479, 19394), (489, 19436), (502, 19487), (525, 19583), (527, 19598), (529, 19607), (533, 19631), (545, 19694), (552, 19730), (606, 20036), (612, 20081), (621, 20183),

Gene: PBI1_30 Start: 24247, Stop: 26517, Start Num: 157
Candidate Starts for PBI1_30:
(Start: 157 @24247 has 22 MA's), (196, 24382), (199, 24391), (233, 24565), (234, 24571), (237, 24583), (273, 24736), (282, 24751), (288, 24766), (382, 25147), (383, 25153), (391, 25198), (412, 25285), (455, 25486), (456, 25492), (466, 25540), (472, 25570), (476, 25594), (515, 25783), (523, 25810), (530, 25858), (544, 25930), (552, 25969), (553, 25990), (556, 26005), (559, 26023), (561, 26053), (578, 26137), (616, 26338), (621, 26380), (647, 26506),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 46
Candidate Starts for PHappiness_18:
(40, 17366), (Start: 46 @17378 has 244 MA's), (58, 17399), (Start: 69 @17420 has 1 MA's), (82, 17459), (113, 17528), (115, 17537), (116, 17540), (123, 17558), (140, 17606), (155, 17654), (188, 17765), (189, 17768), (206, 17813), (221, 17891), (226, 17915), (239, 17981), (250, 18026), (256, 18056), (257, 18062), (259, 18080), (267, 18104), (270, 18113), (284, 18146), (286, 18152), (293, 18182), (305, 18221), (308, 18233), (311, 18242), (315, 18257), (317, 18260), (342, 18371), (343, 18374), (344, 18383), (345, 18389), (348, 18404), (349, 18407), (354, 18428), (363, 18458), (367, 18470), (372, 18503), (393, 18614), (395, 18617), (404, 18644), (406, 18650), (416, 18704), (417, 18707), (440, 18809), (443, 18821), (444, 18824), (457, 18890), (462, 18914), (466, 18935), (468, 18944), (482, 19004), (483, 19007), (491, 19043), (494, 19061), (500, 19082), (509, 19109), (524, 19178), (527, 19196), (529, 19205), (530, 19217), (537, 19253), (546, 19304), (550, 19322), (558, 19364), (565, 19418), (585, 19520), (608, 19655), (612, 19679), (618, 19733), (627, 19802), (633, 19847), (634, 19850),

Gene: PLot_31 Start: 24319, Stop: 26589, Start Num: 157
Candidate Starts for PLot_31:
(Start: 157 @24319 has 22 MA's), (196, 24454), (199, 24463), (233, 24637), (234, 24643), (237, 24655), (273, 24808), (282, 24823), (288, 24838), (382, 25219), (383, 25225), (391, 25270), (412, 25357), (455, 25558), (456, 25564), (466, 25612), (472, 25642), (476, 25666), (515, 25855), (523, 25882), (530, 25930), (544, 26002), (552, 26041), (553, 26062), (556, 26077), (559, 26095), (561, 26125), (578, 26209), (616, 26410), (621, 26452), (647, 26578),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 46
Candidate Starts for PMC_18:
(Start: 46 @17383 has 244 MA's), (90, 17473), (113, 17533), (115, 17542), (116, 17545), (123, 17563), (140, 17611), (155, 17659), (186, 17764), (188, 17770), (189, 17773), (205, 17815), (206, 17818), (226, 17920), (239, 17986), (250, 18031), (256, 18061), (257, 18067), (259, 18085), (267, 18109), (270, 18118), (284, 18151), (286, 18157), (301, 18208), (305, 18226), (308, 18238), (311, 18247), (315, 18262), (318, 18268), (342, 18376), (344, 18388), (345, 18394), (348, 18409), (349, 18412), (354, 18433), (363, 18463), (367, 18475), (372, 18508), (386, 18574), (393, 18619), (395, 18622), (404, 18649), (406, 18655), (416, 18709), (417, 18712), (425, 18739), (440, 18814), (443, 18826), (444, 18829), (457, 18895), (461, 18916), (462, 18919), (468, 18949), (478, 18991), (482, 19009), (483, 19012), (489, 19042), (494, 19066), (497, 19078), (500, 19087), (524, 19183), (527, 19201), (529, 19210), (530, 19222), (542, 19288), (545, 19297), (546, 19309), (558, 19369), (585, 19525), (608, 19660), (612, 19684), (618, 19738), (627, 19807), (633, 19852), (634, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 46
Candidate Starts for Pacc40_18:
(40, 17556), (Start: 46 @17568 has 244 MA's), (58, 17589), (Start: 69 @17610 has 1 MA's), (82, 17649), (113, 17718), (115, 17727), (116, 17730), (123, 17748), (140, 17796), (155, 17844), (188, 17955), (189, 17958), (206, 18003), (221, 18081), (226, 18105), (239, 18171), (250, 18216), (256, 18246), (257, 18252), (259, 18270), (267, 18294), (270, 18303), (284, 18336), (286, 18342), (293, 18372), (305, 18411), (308, 18423), (311, 18432), (315, 18447), (317, 18450), (342, 18561), (343, 18564), (344, 18573), (345, 18579), (348, 18594), (349, 18597), (354, 18618), (363, 18648), (367, 18660), (372, 18693), (393, 18804), (395, 18807), (404, 18834), (406, 18840), (416, 18894), (417, 18897), (440, 18999), (443, 19011), (444, 19014), (457, 19080), (462, 19104), (466, 19125), (468, 19134), (482, 19194), (483, 19197), (491, 19233), (494, 19251), (500, 19272), (509, 19299), (524, 19368), (527, 19386), (529, 19395), (530, 19407), (537, 19443), (546, 19494), (550, 19512), (558, 19554), (565, 19608), (585, 19710), (608, 19845), (612, 19869), (618, 19923), (627, 19992), (633, 20037), (634, 20040),

Gene: Pace1224_22 Start: 20643, Stop: 23102, Start Num: 49
Candidate Starts for Pace1224_22:
(Start: 49 @20643 has 12 MA's), (77, 20703), (95, 20751), (160, 20946), (235, 21234), (260, 21336), (267, 21360), (312, 21504), (317, 21519), (335, 21600), (350, 21675), (367, 21732), (370, 21756), (378, 21792), (416, 21978), (419, 21999), (433, 22047), (434, 22062), (447, 22128), (454, 22170), (478, 22263), (480, 22281), (494, 22347), (514, 22428), (531, 22494), (558, 22647), (570, 22737), (583, 22806), (591, 22842), (607, 22935), (619, 23040), (620, 23076),

Gene: PaddyBaddy_27 Start: 22039, Stop: 24435, Start Num: 88
Candidate Starts for PaddyBaddy_27:
(Start: 88 @22039 has 134 MA's), (153, 22216), (158, 22237), (212, 22384), (249, 22558), (256, 22591), (263, 22627), (293, 22720), (311, 22780), (317, 22798), (346, 22930), (357, 22975), (386, 23107), (393, 23152), (411, 23212), (437, 23326), (440, 23347), (449, 23386), (452, 23407), (454, 23422), (489, 23572), (491, 23578), (494, 23596), (511, 23650), (527, 23734), (545, 23827), (593, 24073), (621, 24289), (634, 24373), (641, 24406),

Gene: PaintedDog_20 Start: 18529, Stop: 21066, Start Num: 56
Candidate Starts for PaintedDog_20:
(14, 18220), (Start: 56 @18529 has 2 MA's), (65, 18553), (93, 18634), (105, 18664), (108, 18673), (116, 18700), (119, 18709), (181, 18919), (193, 18964), (197, 18976), (198, 18979), (225, 19114), (233, 19159), (239, 19183), (246, 19201), (254, 19237), (256, 19243), (267, 19291), (286, 19342), (289, 19351), (305, 19414), (315, 19450), (317, 19453), (318, 19456), (349, 19594), (371, 19681), (372, 19687), (393, 19798), (440, 19993), (452, 20053), (465, 20125), (466, 20128), (468, 20137), (527, 20398), (545, 20491), (549, 20518), (551, 20524), (576, 20671), (581, 20692), (632, 20992),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 88
Candidate Starts for Palpatine_26:
(Start: 88 @22301 has 134 MA's), (153, 22478), (158, 22499), (212, 22646), (240, 22787), (249, 22820), (256, 22853), (263, 22889), (293, 22982), (311, 23042), (317, 23060), (346, 23192), (357, 23237), (386, 23369), (393, 23414), (411, 23474), (437, 23588), (440, 23609), (449, 23648), (452, 23669), (454, 23684), (489, 23834), (491, 23840), (494, 23858), (511, 23912), (527, 23996), (545, 24089), (593, 24335), (621, 24551), (634, 24635), (641, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 88
Candidate Starts for Paperbeatsrock_28:
(Start: 88 @23264 has 134 MA's), (153, 23441), (158, 23462), (212, 23609), (240, 23750), (249, 23783), (256, 23816), (263, 23852), (293, 23945), (311, 24005), (317, 24023), (346, 24155), (357, 24200), (386, 24332), (393, 24377), (411, 24437), (437, 24551), (440, 24572), (449, 24611), (452, 24632), (454, 24647), (489, 24797), (491, 24803), (494, 24821), (511, 24875), (527, 24959), (545, 25052), (593, 25298), (621, 25514), (634, 25598), (641, 25631),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 88
Candidate Starts for Pat3_25:
(Start: 88 @21010 has 134 MA's), (153, 21187), (158, 21208), (212, 21355), (240, 21496), (249, 21529), (256, 21562), (263, 21598), (293, 21691), (311, 21751), (317, 21769), (346, 21901), (357, 21946), (386, 22078), (393, 22123), (437, 22297), (440, 22318), (449, 22357), (452, 22378), (454, 22393), (491, 22549), (494, 22567), (511, 22621), (527, 22705), (587, 23029), (621, 23260), (634, 23344), (641, 23377),

Gene: PatoPoderoso_18 Start: 17437, Stop: 19974, Start Num: 46
Candidate Starts for PatoPoderoso_18:
(40, 17425), (Start: 46 @17437 has 244 MA's), (58, 17458), (Start: 69 @17479 has 1 MA's), (82, 17518), (113, 17587), (115, 17596), (116, 17599), (123, 17617), (136, 17650), (140, 17665), (155,

17713), (188, 17824), (189, 17827), (202, 17857), (205, 17869), (206, 17872), (221, 17950), (226, 17974), (239, 18040), (250, 18085), (256, 18115), (257, 18121), (259, 18139), (267, 18163), (270, 18172), (284, 18205), (286, 18211), (293, 18241), (305, 18280), (308, 18292), (311, 18301), (315, 18316), (317, 18319), (342, 18430), (343, 18433), (344, 18442), (345, 18448), (348, 18463), (349, 18466), (354, 18487), (363, 18517), (367, 18529), (372, 18562), (393, 18673), (395, 18676), (404, 18703), (406, 18709), (416, 18763), (417, 18766), (438, 18853), (440, 18868), (443, 18880), (444, 18883), (457, 18949), (462, 18973), (466, 18994), (468, 19003), (482, 19063), (483, 19066), (491, 19102), (494, 19120), (497, 19132), (500, 19141), (509, 19168), (524, 19237), (527, 19255), (529, 19264), (530, 19276), (537, 19312), (542, 19342), (546, 19363), (552, 19387), (558, 19423), (565, 19477), (577, 19537), (585, 19579), (597, 19657), (608, 19714), (612, 19738), (618, 19792), (621, 19840), (630, 19882), (633, 19906), (634, 19909),

Gene: Penelope2018_30 Start: 24316, Stop: 26586, Start Num: 157
Candidate Starts for Penelope2018_30:
(Start: 157 @24316 has 22 MA's), (196, 24451), (199, 24460), (233, 24634), (234, 24640), (237, 24652), (273, 24805), (282, 24820), (288, 24835), (382, 25216), (383, 25222), (391, 25267), (412, 25354), (456, 25561), (466, 25609), (472, 25639), (476, 25663), (515, 25852), (523, 25879), (530, 25927), (544, 25999), (552, 26038), (553, 26059), (556, 26074), (559, 26092), (561, 26122), (578, 26206), (616, 26407), (621, 26449), (647, 26575),

Gene: Peridot_19 Start: 17209, Stop: 19746, Start Num: 46
Candidate Starts for Peridot_19:
(40, 17197), (Start: 46 @17209 has 244 MA's), (58, 17230), (Start: 69 @17251 has 1 MA's), (82, 17290), (115, 17368), (116, 17371), (123, 17389), (136, 17422), (140, 17437), (155, 17485), (188, 17596), (189, 17599), (206, 17644), (221, 17722), (239, 17812), (256, 17887), (257, 17893), (259, 17911), (267, 17935), (269, 17941), (270, 17944), (284, 17977), (286, 17983), (293, 18013), (301, 18034), (308, 18064), (311, 18073), (315, 18088), (317, 18091), (342, 18202), (343, 18205), (344, 18214), (345, 18220), (348, 18235), (349, 18238), (354, 18259), (363, 18289), (367, 18301), (372, 18334), (393, 18445), (395, 18448), (404, 18475), (406, 18481), (416, 18535), (417, 18538), (440, 18640), (443, 18652), (444, 18655), (457, 18721), (462, 18745), (466, 18766), (468, 18775), (482, 18835), (483, 18838), (491, 18874), (494, 18892), (497, 18904), (500, 18913), (509, 18940), (522, 18997), (524, 19009), (527, 19027), (529, 19036), (530, 19048), (537, 19084), (542, 19114), (545, 19123), (546, 19135), (558, 19195), (565, 19249), (577, 19309), (585, 19351), (608, 19486), (612, 19510), (618, 19564), (621, 19612), (630, 19654), (633, 19678), (634, 19681),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 88
Candidate Starts for Petra64142_28:
(Start: 88 @22744 has 134 MA's), (153, 22921), (158, 22942), (212, 23089), (240, 23230), (249, 23263), (256, 23296), (263, 23332), (293, 23425), (311, 23485), (317, 23503), (346, 23635), (357, 23680), (386, 23812), (393, 23857), (411, 23917), (437, 24031), (440, 24052), (449, 24091), (452, 24112), (454, 24127), (489, 24277), (491, 24283), (494, 24301), (511, 24355), (527, 24439), (545, 24532), (593, 24778), (621, 24994), (634, 25078), (641, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 88
Candidate Starts for Phaja_26:
(Start: 88 @22460 has 134 MA's), (153, 22637), (158, 22658), (212, 22805), (240, 22946), (249, 22979), (256, 23012), (263, 23048), (293, 23141), (311, 23201), (317, 23219), (350, 23375), (357, 23396), (382, 23516), (386, 23528), (393, 23573), (440, 23768), (441, 23774), (444, 23783), (452, 23828), (454, 23843), (491, 23999), (494, 24017), (496, 24026), (512, 24080), (527, 24155), (528, 24158), (564, 24368), (566, 24380), (593, 24494), (621, 24710), (634, 24794), (639, 24818), (641, 24827),

Gene: Phalaborwa_30 Start: 24343, Stop: 26613, Start Num: 157

Candidate Starts for Phalaborwa_30:
(Start: 157 @24343 has 22 MA's), (196, 24478), (199, 24487), (233, 24661), (237, 24679), (240, 24694), (273, 24832), (288, 24862), (306, 24928), (307, 24931), (365, 25147), (382, 25243), (383, 25249), (391, 25294), (412, 25381), (437, 25477), (442, 25507), (453, 25567), (455, 25582), (456, 25588), (466, 25636), (476, 25690), (481, 25720), (515, 25879), (523, 25906), (524, 25915), (530, 25954), (544, 26026), (553, 26086), (556, 26101), (559, 26119), (561, 26149), (571, 26203), (578, 26233), (616, 26434), (647, 26602),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 46
Candidate Starts for Phalconet_18:
(40, 17436), (Start: 46 @17448 has 244 MA's), (58, 17469), (Start: 69 @17490 has 1 MA's), (82, 17529), (113, 17598), (115, 17607), (116, 17610), (136, 17661), (140, 17676), (155, 17718), (188, 17829), (189, 17832), (202, 17862), (206, 17877), (221, 17955), (239, 18045), (250, 18090), (256, 18120), (257, 18126), (259, 18144), (267, 18168), (270, 18177), (284, 18210), (286, 18216), (293, 18246), (305, 18285), (308, 18297), (311, 18306), (315, 18321), (317, 18324), (342, 18435), (343, 18438), (344, 18447), (345, 18453), (348, 18468), (349, 18471), (354, 18492), (363, 18522), (367, 18534), (372, 18567), (386, 18633), (393, 18678), (395, 18681), (404, 18708), (406, 18714), (416, 18768), (417, 18771), (438, 18858), (440, 18873), (443, 18885), (444, 18888), (457, 18954), (466, 18999), (468, 19008), (482, 19068), (483, 19071), (491, 19107), (494, 19125), (497, 19137), (500, 19146), (509, 19173), (524, 19242), (527, 19260), (529, 19269), (530, 19281), (537, 19317), (542, 19347), (546, 19368), (552, 19392), (558, 19428), (565, 19482), (577, 19542), (585, 19584), (597, 19662), (608, 19719), (612, 19743), (618, 19797), (621, 19845), (630, 19887), (633, 19911), (634, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 46
Candidate Starts for Phanphagia_18:
(41, 17438), (Start: 46 @17450 has 244 MA's), (58, 17471), (Start: 69 @17492 has 1 MA's), (84, 17531), (113, 17600), (115, 17609), (116, 17612), (123, 17630), (136, 17663), (140, 17678), (174, 17765), (179, 17780), (189, 17816), (190, 17822), (206, 17855), (209, 17867), (247, 18038), (250, 18047), (256, 18071), (269, 18125), (284, 18161), (286, 18167), (293, 18197), (303, 18227), (308, 18248), (311, 18257), (333, 18341), (345, 18404), (349, 18422), (350, 18431), (357, 18452), (358, 18455), (363, 18473), (367, 18485), (371, 18512), (373, 18521), (382, 18572), (384, 18581), (386, 18584), (390, 18611), (392, 18620), (399, 18641), (416, 18719), (417, 18722), (441, 18830), (443, 18836), (452, 18884), (461, 18926), (462, 18929), (466, 18950), (467, 18956), (468, 18959), (475, 18989), (507, 19130), (512, 19148), (518, 19181), (524, 19205), (525, 19208), (527, 19223), (530, 19244), (537, 19280), (538, 19286), (543, 19313), (548, 19340), (569, 19475), (580, 19523), (584, 19547), (586, 19553), (593, 19571), (608, 19670), (611, 19691), (613, 19709), (621, 19787), (627, 19808), (637, 19871), (639, 19889), (644, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 88
Candidate Starts for Pharsalus_27:
(Start: 88 @23064 has 134 MA's), (153, 23241), (158, 23262), (212, 23409), (240, 23550), (249, 23583), (256, 23616), (263, 23652), (293, 23745), (311, 23805), (317, 23823), (346, 23955), (357, 24000), (386, 24132), (393, 24177), (411, 24237), (437, 24351), (440, 24372), (449, 24411), (452, 24432), (454, 24447), (489, 24597), (491, 24603), (494, 24621), (511, 24675), (527, 24759), (545, 24852), (593, 25098), (621, 25314), (634, 25398), (641, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 46
Candidate Starts for Phasih_19:
(Start: 46 @17939 has 244 MA's), (58, 17960), (Start: 69 @17981 has 1 MA's), (82, 18020), (113, 18089), (115, 18098), (116, 18101), (123, 18119), (136, 18152), (140, 18167), (186, 18320), (189, 18329), (206, 18374), (225, 18473), (226, 18476), (239, 18542), (256, 18617), (257, 18623), (267, 18665), (269, 18671), (270, 18674), (284, 18707), (286, 18713), (293, 18743), (301, 18764), (308,

18794), (311, 18803), (315, 18818), (317, 18821), (342, 18932), (343, 18935), (344, 18944), (345, 18950), (348, 18965), (349, 18968), (354, 18989), (363, 19019), (367, 19031), (372, 19064), (393, 19175), (395, 19178), (404, 19205), (406, 19211), (416, 19265), (417, 19268), (438, 19355), (440, 19370), (443, 19382), (444, 19385), (457, 19451), (462, 19475), (466, 19496), (468, 19505), (478, 19547), (482, 19565), (483, 19568), (489, 19598), (494, 19622), (497, 19634), (500, 19643), (524, 19739), (527, 19757), (529, 19766), (530, 19778), (537, 19814), (542, 19844), (545, 19853), (546, 19865), (558, 19925), (565, 19979), (577, 20039), (585, 20081), (608, 20216), (612, 20240), (618, 20294), (621, 20342), (630, 20384), (633, 20408), (634, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 88
Candidate Starts for PhatBacter_26:
(Start: 88 @22312 has 134 MA's), (153, 22489), (158, 22510), (212, 22657), (240, 22798), (249, 22831), (256, 22864), (263, 22900), (293, 22993), (311, 23053), (317, 23071), (346, 23203), (357, 23248), (386, 23380), (393, 23425), (411, 23485), (437, 23599), (440, 23620), (449, 23659), (452, 23680), (454, 23695), (489, 23845), (491, 23851), (494, 23869), (511, 23923), (527, 24007), (545, 24100), (593, 24346), (621, 24562), (634, 24646), (641, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 46
Candidate Starts for Phatniss_19:
(40, 17889), (Start: 46 @17901 has 244 MA's), (58, 17922), (Start: 69 @17943 has 1 MA's), (82, 17982), (113, 18051), (115, 18060), (116, 18063), (123, 18081), (136, 18114), (140, 18129), (155, 18177), (186, 18282), (189, 18291), (205, 18333), (206, 18336), (221, 18414), (226, 18438), (239, 18504), (250, 18549), (256, 18579), (257, 18585), (259, 18603), (267, 18627), (270, 18636), (284, 18669), (286, 18675), (293, 18705), (305, 18744), (308, 18756), (311, 18765), (315, 18780), (317, 18783), (342, 18894), (344, 18906), (345, 18912), (348, 18927), (349, 18930), (354, 18951), (363, 18981), (367, 18993), (372, 19026), (386, 19092), (393, 19137), (395, 19140), (404, 19167), (406, 19173), (416, 19227), (417, 19230), (425, 19257), (440, 19332), (443, 19344), (444, 19347), (457, 19413), (462, 19437), (468, 19467), (478, 19509), (482, 19527), (483, 19530), (491, 19566), (494, 19584), (500, 19605), (509, 19632), (524, 19701), (527, 19719), (529, 19728), (530, 19740), (537, 19776), (542, 19806), (545, 19815), (546, 19827), (558, 19887), (565, 19941), (577, 20001), (585, 20043), (597, 20121), (608, 20178), (612, 20202), (618, 20256), (621, 20304), (630, 20346), (633, 20370), (634, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 88
Candidate Starts for Phaux_25:
(Start: 88 @22310 has 134 MA's), (153, 22487), (158, 22508), (212, 22655), (240, 22796), (249, 22829), (256, 22862), (263, 22898), (293, 22991), (311, 23051), (317, 23069), (346, 23201), (357, 23246), (386, 23378), (393, 23423), (411, 23483), (437, 23597), (440, 23618), (449, 23657), (452, 23678), (454, 23693), (489, 23843), (491, 23849), (494, 23867), (511, 23921), (527, 24005), (545, 24098), (593, 24344), (621, 24560), (634, 24644), (641, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 46
Candidate Starts for PhesterPhotato_18:
(40, 17407), (Start: 46 @17419 has 244 MA's), (58, 17440), (Start: 69 @17461 has 1 MA's), (82, 17500), (113, 17569), (115, 17578), (116, 17581), (123, 17599), (136, 17632), (140, 17647), (155, 17695), (188, 17806), (189, 17809), (202, 17839), (206, 17854), (221, 17932), (226, 17956), (239, 18022), (250, 18067), (256, 18097), (257, 18103), (259, 18121), (267, 18145), (270, 18154), (284, 18187), (286, 18193), (293, 18223), (305, 18262), (308, 18274), (311, 18283), (315, 18298), (317, 18301), (342, 18412), (343, 18415), (344, 18424), (345, 18430), (348, 18445), (349, 18448), (354, 18469), (363, 18499), (367, 18511), (372, 18544), (393, 18655), (395, 18658), (404, 18685), (406, 18691), (416, 18745), (417, 18748), (440, 18850), (443, 18862), (444, 18865), (457, 18931), (462, 18955), (466, 18976), (468, 18985), (482, 19045), (483, 19048), (491, 19084), (494, 19102), (497, 19114), (500, 19123), (509, 19150), (524, 19219), (527, 19237), (529, 19246), (530, 19258), (537,

19294), (542, 19324), (546, 19345), (552, 19369), (558, 19405), (565, 19459), (577, 19519), (585, 19561), (597, 19639), (608, 19696), (612, 19720), (613, 19735), (618, 19774), (621, 19822), (630, 19864), (633, 19888), (634, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 46
Candidate Starts for Philus_18:
(Start: 46 @17405 has 244 MA's), (58, 17426), (Start: 69 @17447 has 1 MA's), (82, 17486), (113, 17555), (115, 17564), (116, 17567), (123, 17585), (140, 17633), (186, 17786), (189, 17795), (206, 17840), (221, 17918), (226, 17942), (239, 18008), (250, 18053), (256, 18083), (257, 18089), (259, 18107), (267, 18131), (270, 18140), (284, 18173), (286, 18179), (293, 18209), (305, 18248), (311, 18269), (315, 18284), (317, 18287), (343, 18401), (344, 18410), (345, 18416), (349, 18434), (354, 18455), (363, 18485), (367, 18497), (372, 18530), (393, 18641), (395, 18644), (404, 18671), (406, 18677), (416, 18731), (417, 18734), (438, 18821), (440, 18836), (444, 18851), (462, 18941), (466, 18962), (468, 18971), (482, 19031), (483, 19034), (491, 19070), (494, 19088), (497, 19100), (500, 19109), (509, 19136), (524, 19205), (527, 19223), (529, 19232), (530, 19244), (537, 19280), (542, 19310), (546, 19331), (552, 19355), (558, 19391), (565, 19445), (585, 19547), (597, 19625), (608, 19682), (612, 19706), (618, 19760), (621, 19808), (630, 19850), (636, 19883), (637, 19886),

Gene: PhlipPhlop_18 Start: 17352, Stop: 19889, Start Num: 46
Candidate Starts for PhlipPhlop_18:
(Start: 46 @17352 has 244 MA's), (58, 17373), (Start: 69 @17394 has 1 MA's), (82, 17433), (113, 17502), (115, 17511), (116, 17514), (123, 17532), (140, 17580), (186, 17733), (189, 17742), (206, 17787), (225, 17886), (226, 17889), (239, 17955), (256, 18030), (257, 18036), (259, 18054), (267, 18078), (269, 18084), (270, 18087), (284, 18120), (286, 18126), (293, 18156), (301, 18177), (308, 18207), (311, 18216), (315, 18231), (317, 18234), (342, 18345), (343, 18348), (344, 18357), (345, 18363), (348, 18378), (349, 18381), (354, 18402), (363, 18432), (367, 18444), (372, 18477), (393, 18588), (395, 18591), (404, 18618), (406, 18624), (416, 18678), (417, 18681), (440, 18783), (443, 18795), (444, 18798), (457, 18864), (462, 18888), (466, 18909), (468, 18918), (482, 18978), (483, 18981), (491, 19017), (494, 19035), (497, 19047), (500, 19056), (509, 19083), (522, 19140), (524, 19152), (527, 19170), (529, 19179), (530, 19191), (537, 19227), (542, 19257), (545, 19266), (546, 19278), (558, 19338), (565, 19392), (577, 19452), (585, 19494), (608, 19629), (612, 19653), (618, 19707), (621, 19755), (630, 19797), (633, 19821), (634, 19824),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 16
Candidate Starts for Phreeze_29:
(Start: 16 @25682 has 10 MA's), (25, 25814), (26, 25826), (28, 25835), (42, 25904), (72, 25970), (78, 25991), (96, 26039), (111, 26081), (118, 26105), (131, 26138), (142, 26174), (148, 26186), (173, 26279), (189, 26336), (201, 26375), (240, 26570), (248, 26600), (257, 26642), (301, 26783), (305, 26801), (326, 26882), (335, 26921), (340, 26942), (372, 27080), (379, 27119), (392, 27182), (417, 27284), (465, 27509), (543, 27872), (548, 27899), (594, 28142), (595, 28175), (600, 28199), (617, 28319), (628, 28397), (641, 28484), (646, 28499), (648, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 88
Candidate Starts for Phrux_26:
(Start: 88 @22025 has 134 MA's), (153, 22202), (158, 22223), (212, 22370), (249, 22544), (256, 22577), (263, 22613), (293, 22706), (311, 22766), (317, 22784), (346, 22916), (357, 22961), (386, 23093), (393, 23138), (411, 23198), (437, 23312), (440, 23333), (449, 23372), (452, 23393), (454, 23408), (489, 23558), (491, 23564), (494, 23582), (511, 23636), (527, 23720), (545, 23813), (593, 24059), (621, 24275), (634, 24359), (641, 24392),

Gene: Pinnie_23 Start: 21181, Stop: 23643, Start Num: 49
Candidate Starts for Pinnie_23:

(Start: 49 @21181 has 12 MA's), (94, 21286), (95, 21289), (138, 21409), (152, 21451), (160, 21484), (197, 21589), (235, 21772), (252, 21832), (289, 21955), (296, 21994), (311, 22042), (312, 22045), (335, 22141), (340, 22162), (346, 22192), (350, 22216), (370, 22297), (372, 22306), (378, 22333), (402, 22453), (419, 22540), (433, 22588), (447, 22669), (454, 22711), (478, 22804), (494, 22888), (552, 23149), (558, 23188), (569, 23275), (583, 23347), (606, 23464), (607, 23476), (619, 23581), (624, 23626),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 46
Candidate Starts for Piper2020_19:
(Start: 46 @17270 has 244 MA's), (58, 17291), (Start: 69 @17312 has 1 MA's), (82, 17351), (113, 17420), (115, 17429), (116, 17432), (123, 17450), (136, 17483), (140, 17498), (155, 17546), (188, 17657), (189, 17660), (206, 17705), (221, 17783), (226, 17807), (239, 17873), (240, 17882), (256, 17948), (257, 17954), (259, 17972), (267, 17996), (269, 18002), (270, 18005), (284, 18038), (286, 18044), (293, 18074), (301, 18095), (311, 18134), (315, 18149), (318, 18155), (349, 18299), (363, 18350), (385, 18461), (395, 18512), (403, 18536), (425, 18629), (435, 18674), (437, 18683), (440, 18704), (443, 18716), (444, 18719), (452, 18764), (462, 18809), (465, 18827), (466, 18830), (478, 18881), (489, 18932), (491, 18938), (494, 18956), (497, 18968), (500, 18977), (511, 19010), (527, 19091), (539, 19160), (545, 19187), (549, 19214), (559, 19265), (565, 19313), (611, 19556), (621, 19661), (627, 19682), (636, 19736), (640, 19760),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 46
Candidate Starts for Plumbus_19:
(40, 17214), (Start: 46 @17226 has 244 MA's), (58, 17247), (Start: 69 @17268 has 1 MA's), (82, 17307), (113, 17376), (115, 17385), (116, 17388), (123, 17406), (136, 17439), (140, 17454), (155, 17502), (188, 17613), (189, 17616), (202, 17646), (205, 17658), (206, 17661), (221, 17739), (226, 17763), (239, 17829), (250, 17874), (256, 17904), (257, 17910), (259, 17928), (267, 17952), (270, 17961), (284, 17994), (286, 18000), (293, 18030), (305, 18069), (308, 18081), (311, 18090), (315, 18105), (317, 18108), (342, 18219), (343, 18222), (344, 18231), (345, 18237), (348, 18252), (349, 18255), (354, 18276), (363, 18306), (367, 18318), (372, 18351), (386, 18417), (393, 18462), (395, 18465), (404, 18492), (406, 18498), (416, 18552), (417, 18555), (438, 18642), (440, 18657), (443, 18669), (444, 18672), (457, 18738), (462, 18762), (466, 18783), (468, 18792), (482, 18852), (483, 18855), (491, 18891), (494, 18909), (497, 18921), (500, 18930), (509, 18957), (524, 19026), (527, 19044), (529, 19053), (530, 19065), (537, 19101), (542, 19131), (546, 19152), (552, 19176), (558, 19212), (565, 19266), (577, 19326), (585, 19368), (597, 19446), (608, 19503), (612, 19527), (618, 19581), (621, 19629), (630, 19671), (633, 19695), (634, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 46
Candidate Starts for Poenanya_18:
(Start: 46 @17534 has 244 MA's), (58, 17555), (Start: 69 @17576 has 1 MA's), (82, 17615), (113, 17684), (115, 17693), (116, 17696), (123, 17714), (140, 17762), (188, 17921), (189, 17924), (206, 17969), (221, 18047), (226, 18071), (239, 18137), (256, 18212), (257, 18218), (259, 18236), (267, 18260), (269, 18266), (270, 18269), (284, 18302), (286, 18308), (293, 18338), (301, 18359), (308, 18389), (311, 18398), (336, 18506), (340, 18518), (342, 18527), (343, 18530), (345, 18545), (348, 18560), (349, 18563), (354, 18584), (367, 18626), (372, 18659), (393, 18770), (395, 18773), (404, 18800), (406, 18806), (416, 18860), (417, 18863), (425, 18890), (440, 18965), (443, 18977), (444, 18980), (457, 19046), (461, 19067), (462, 19070), (466, 19091), (468, 19100), (482, 19160), (483, 19163), (491, 19199), (494, 19217), (497, 19229), (500, 19238), (509, 19265), (522, 19322), (524, 19334), (527, 19352), (529, 19361), (530, 19373), (537, 19409), (542, 19439), (545, 19448), (546, 19460), (558, 19520), (565, 19574), (577, 19634), (585, 19676), (608, 19811), (612, 19835), (618, 19889), (621, 19937), (630, 19979), (633, 20003), (634, 20006),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 88
Candidate Starts for Policronamos_26:

(Start: 88 @22312 has 134 MA's), (153, 22489), (158, 22510), (212, 22657), (240, 22798), (249, 22831), (256, 22864), (263, 22900), (293, 22993), (311, 23053), (317, 23071), (335, 23152), (386, 23380), (393, 23425), (440, 23620), (441, 23626), (444, 23635), (452, 23680), (454, 23695), (491, 23851), (494, 23869), (496, 23878), (512, 23932), (527, 24007), (564, 24220), (566, 24232), (593, 24346), (621, 24562), (634, 24646), (639, 24670), (641, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 46
Candidate Starts for Polka14_19:
(40, 17928), (Start: 46 @17940 has 244 MA's), (58, 17961), (Start: 69 @17982 has 1 MA's), (82, 18021), (113, 18090), (115, 18099), (116, 18102), (123, 18120), (140, 18168), (155, 18216), (188, 18327), (189, 18330), (206, 18375), (221, 18453), (226, 18477), (239, 18543), (250, 18588), (256, 18618), (257, 18624), (259, 18642), (267, 18666), (270, 18675), (284, 18708), (286, 18714), (293, 18744), (305, 18783), (308, 18795), (311, 18804), (315, 18819), (317, 18822), (342, 18933), (343, 18936), (344, 18945), (345, 18951), (348, 18966), (349, 18969), (354, 18990), (363, 19020), (367, 19032), (372, 19065), (393, 19176), (395, 19179), (404, 19206), (406, 19212), (416, 19266), (417, 19269), (440, 19371), (443, 19383), (444, 19386), (457, 19452), (462, 19476), (466, 19497), (468, 19506), (482, 19566), (483, 19569), (491, 19605), (494, 19623), (500, 19644), (509, 19671), (524, 19740), (527, 19758), (529, 19767), (530, 19779), (537, 19815), (546, 19866), (550, 19884), (558, 19926), (565, 19980), (585, 20082), (608, 20217), (612, 20241), (618, 20295), (627, 20364), (633, 20409), (634, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 46
Candidate Starts for Pollywog_21:
(Start: 46 @18605 has 244 MA's), (58, 18626), (Start: 69 @18647 has 1 MA's), (84, 18686), (113, 18755), (115, 18764), (116, 18767), (123, 18785), (140, 18833), (155, 18881), (179, 18935), (189, 18971), (190, 18977), (191, 18980), (204, 18998), (209, 19022), (214, 19046), (229, 19109), (247, 19193), (250, 19202), (256, 19226), (259, 19250), (267, 19274), (269, 19280), (277, 19301), (286, 19322), (293, 19352), (303, 19382), (308, 19403), (333, 19496), (335, 19511), (336, 19520), (342, 19541), (343, 19544), (363, 19628), (364, 19631), (367, 19640), (371, 19667), (373, 19676), (380, 19715), (384, 19736), (386, 19739), (392, 19775), (399, 19796), (416, 19874), (417, 19877), (433, 19931), (443, 19991), (462, 20084), (465, 20102), (466, 20105), (475, 20141), (486, 20195), (489, 20204), (507, 20282), (512, 20300), (519, 20336), (520, 20339), (524, 20357), (525, 20360), (527, 20375), (530, 20396), (537, 20432), (539, 20444), (552, 20507), (558, 20540), (569, 20627), (580, 20675), (584, 20699), (590, 20726), (593, 20735), (596, 20774), (604, 20813), (608, 20837), (611, 20858), (621, 20954), (627, 20975), (637, 21038), (641, 21065), (644, 21074),

Gene: Polo2Bam_20 Start: 17446, Stop: 19983, Start Num: 46
Candidate Starts for Polo2Bam_20:
(Start: 46 @17446 has 244 MA's), (58, 17467), (Start: 69 @17488 has 1 MA's), (81, 17524), (82, 17527), (113, 17596), (115, 17605), (116, 17608), (123, 17626), (136, 17659), (140, 17674), (155, 17722), (186, 17827), (188, 17833), (189, 17836), (205, 17878), (206, 17881), (226, 17983), (239, 18049), (250, 18094), (256, 18124), (257, 18130), (259, 18148), (267, 18172), (270, 18181), (284, 18214), (286, 18220), (301, 18271), (305, 18289), (308, 18301), (311, 18310), (315, 18325), (318, 18331), (342, 18439), (344, 18451), (345, 18457), (348, 18472), (349, 18475), (354, 18496), (363, 18526), (367, 18538), (372, 18571), (386, 18637), (393, 18682), (395, 18685), (404, 18712), (406, 18718), (416, 18772), (417, 18775), (438, 18862), (440, 18877), (443, 18889), (444, 18892), (457, 18958), (466, 19003), (468, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (497, 19141), (500, 19150), (509, 19177), (524, 19246), (527, 19264), (529, 19273), (530, 19285), (537, 19321), (542, 19351), (546, 19372), (552, 19396), (558, 19432), (565, 19486), (577, 19546), (585, 19588), (597, 19666), (608, 19723), (612, 19747), (618, 19801), (621, 19849), (630, 19891), (633, 19915), (634, 19918),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 46

Candidate Starts for PopTart_18:
(40, 17433), (Start: 46 @17445 has 244 MA's), (58, 17466), (Start: 69 @17487 has 1 MA's), (82, 17526), (113, 17595), (115, 17604), (116, 17607), (123, 17625), (136, 17658), (140, 17673), (188, 17832), (189, 17835), (206, 17880), (221, 17958), (226, 17982), (239, 18048), (256, 18123), (257, 18129), (259, 18147), (267, 18171), (269, 18177), (270, 18180), (284, 18213), (286, 18219), (293, 18249), (301, 18270), (308, 18300), (311, 18309), (332, 18390), (344, 18450), (345, 18456), (348, 18471), (349, 18474), (354, 18495), (367, 18537), (372, 18570), (373, 18573), (404, 18711), (406, 18717), (416, 18771), (417, 18774), (425, 18801), (440, 18876), (443, 18888), (444, 18891), (457, 18957), (462, 18981), (466, 19002), (468, 19011), (482, 19071), (483, 19074), (491, 19110), (494, 19128), (500, 19149), (524, 19245), (527, 19263), (529, 19272), (530, 19284), (537, 19320), (542, 19350), (558, 19431), (565, 19485), (585, 19587), (608, 19722), (612, 19746), (618, 19800), (621, 19848), (630, 19890), (633, 19914), (634, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 46
Candidate Starts for Porcelain_35:
(Start: 46 @27554 has 244 MA's), (123, 27749), (136, 27785), (140, 27800), (174, 27887), (179, 27902), (206, 27977), (209, 27989), (215, 28016), (235, 28121), (247, 28160), (250, 28169), (256, 28193), (257, 28199), (259, 28217), (265, 28235), (270, 28250), (272, 28259), (277, 28268), (284, 28283), (292, 28310), (293, 28319), (305, 28358), (308, 28370), (311, 28379), (333, 28463), (349, 28544), (357, 28574), (358, 28577), (367, 28607), (371, 28634), (373, 28643), (382, 28694), (384, 28703), (386, 28706), (392, 28742), (399, 28763), (408, 28799), (441, 28952), (452, 29006), (462, 29051), (465, 29069), (466, 29072), (475, 29111), (507, 29258), (511, 29267), (525, 29336), (527, 29351), (558, 29516), (569, 29603), (580, 29651), (593, 29702), (604, 29780), (635, 30002), (637, 30005), (641, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 88
Candidate Starts for Porky_26:
(Start: 88 @22121 has 134 MA's), (153, 22298), (158, 22319), (212, 22466), (240, 22607), (249, 22640), (256, 22673), (263, 22709), (293, 22802), (311, 22862), (317, 22880), (346, 23012), (357, 23057), (386, 23189), (393, 23234), (411, 23294), (437, 23408), (440, 23429), (449, 23468), (452, 23489), (454, 23504), (489, 23654), (491, 23660), (494, 23678), (511, 23732), (527, 23816), (545, 23909), (593, 24155), (621, 24371), (634, 24455), (641, 24488),

Gene: Prager_30 Start: 24328, Stop: 26598, Start Num: 157
Candidate Starts for Prager_30:
(Start: 157 @24328 has 22 MA's), (196, 24463), (199, 24472), (233, 24646), (234, 24652), (237, 24664), (273, 24817), (282, 24832), (288, 24847), (382, 25228), (383, 25234), (391, 25279), (412, 25366), (455, 25567), (456, 25573), (466, 25621), (472, 25651), (476, 25675), (515, 25864), (523, 25891), (530, 25939), (544, 26011), (552, 26050), (553, 26071), (556, 26086), (559, 26104), (561, 26134), (578, 26218), (616, 26419), (621, 26461), (647, 26587),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 46
Candidate Starts for Priscilla_18:
(Start: 46 @17407 has 244 MA's), (83, 17488), (113, 17557), (115, 17566), (116, 17569), (123, 17587), (140, 17635), (154, 17680), (188, 17794), (189, 17797), (192, 17809), (203, 17830), (205, 17839), (206, 17842), (215, 17890), (221, 17920), (233, 17986), (240, 18019), (250, 18055), (254, 18079), (269, 18139), (270, 18142), (277, 18160), (299, 18223), (301, 18226), (305, 18244), (311, 18265), (317, 18283), (323, 18310), (328, 18331), (335, 18364), (344, 18406), (345, 18412), (346, 18415), (349, 18430), (356, 18457), (357, 18460), (363, 18481), (367, 18493), (372, 18526), (390, 18619), (416, 18727), (422, 18751), (425, 18757), (430, 18775), (431, 18778), (435, 18802), (440, 18832), (446, 18856), (452, 18892), (453, 18898), (454, 18907), (461, 18934), (474, 18997), (478, 19021), (479, 19036), (489, 19078), (502, 19129), (525, 19225), (527, 19240), (529, 19249), (533, 19273), (545, 19336), (552, 19372), (606, 19678), (612, 19723), (621, 19825),

Gene: Ptowny_26 Start: 21666, Stop: 24062, Start Num: 88
Candidate Starts for Ptowny_26:
(Start: 88 @21666 has 134 MA's), (153, 21843), (158, 21864), (212, 22011), (249, 22185), (256, 22218), (263, 22254), (293, 22347), (311, 22407), (317, 22425), (337, 22518), (346, 22557), (357, 22602), (386, 22734), (393, 22779), (411, 22839), (437, 22953), (440, 22974), (449, 23013), (452, 23034), (454, 23049), (489, 23199), (491, 23205), (494, 23223), (511, 23277), (527, 23361), (545, 23454), (593, 23700), (621, 23916), (634, 24000), (641, 24033),

Gene: Puissant_30 Start: 26145, Stop: 28988, Start Num: 16
Candidate Starts for Puissant_30:
(Start: 16 @26145 has 10 MA's), (22, 26247), (25, 26277), (26, 26289), (28, 26298), (44, 26373), (71, 26427), (72, 26433), (78, 26454), (85, 26475), (96, 26502), (163, 26715), (167, 26727), (191, 26808), (194, 26817), (215, 26904), (217, 26910), (229, 26964), (254, 27093), (257, 27105), (293, 27225), (301, 27246), (335, 27384), (367, 27510), (417, 27747), (435, 27819), (443, 27861), (446, 27873), (465, 27972), (485, 28068), (537, 28308), (558, 28416), (594, 28608), (595, 28641), (600, 28665), (604, 28683), (617, 28785), (628, 28863), (636, 28920), (641, 28950), (646, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 88
Candidate Starts for Pumpkin_28:
(Start: 88 @22364 has 134 MA's), (153, 22541), (158, 22562), (212, 22709), (249, 22883), (256, 22916), (263, 22952), (293, 23045), (311, 23105), (317, 23123), (346, 23255), (357, 23300), (386, 23432), (393, 23477), (411, 23537), (437, 23651), (440, 23672), (449, 23711), (452, 23732), (454, 23747), (489, 23897), (491, 23903), (494, 23921), (511, 23975), (527, 24059), (545, 24152), (593, 24398), (621, 24614), (634, 24698), (641, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 60
Candidate Starts for Pygmy_20:
(Start: 60 @18761 has 35 MA's), (63, 18770), (116, 18914), (225, 19319), (231, 19334), (233, 19364), (234, 19370), (239, 19388), (267, 19496), (286, 19547), (317, 19658), (318, 19661), (326, 19700), (335, 19733), (349, 19799), (367, 19859), (371, 19886), (372, 19892), (440, 20198), (452, 20258), (460, 20306), (461, 20309), (465, 20330), (466, 20333), (527, 20594), (550, 20717), (551, 20720), (565, 20810), (576, 20867), (581, 20888), (599, 20948), (628, 21149), (632, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 88
Candidate Starts for Quallification_27:
(Start: 88 @22490 has 134 MA's), (153, 22667), (158, 22688), (212, 22835), (240, 22976), (249, 23009), (256, 23042), (263, 23078), (293, 23171), (311, 23231), (317, 23249), (346, 23381), (357, 23426), (386, 23558), (393, 23603), (411, 23663), (437, 23777), (440, 23798), (449, 23837), (452, 23858), (454, 23873), (489, 24023), (491, 24029), (494, 24047), (511, 24101), (527, 24185), (545, 24278), (593, 24524), (621, 24740), (634, 24824), (641, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 46
Candidate Starts for QuickMath_19:
(40, 18731), (Start: 46 @18743 has 244 MA's), (58, 18764), (Start: 69 @18785 has 1 MA's), (82, 18824), (113, 18893), (115, 18902), (116, 18905), (123, 18923), (136, 18956), (140, 18971), (155, 19019), (188, 19130), (189, 19133), (202, 19163), (205, 19175), (206, 19178), (221, 19256), (226, 19280), (239, 19346), (250, 19391), (256, 19421), (257, 19427), (259, 19445), (267, 19469), (270, 19478), (284, 19511), (286, 19517), (293, 19547), (305, 19586), (308, 19598), (311, 19607), (315, 19622), (317, 19625), (342, 19736), (343, 19739), (344, 19748), (345, 19754), (348, 19769), (349, 19772), (354, 19793), (363, 19823), (367, 19835), (372, 19868), (393, 19979), (395, 19982), (404, 20009), (406, 20015), (416, 20069), (417, 20072), (438, 20159), (440, 20174), (443, 20186), (444, 20189), (457, 20255), (462, 20279), (466, 20300), (468, 20309), (478, 20351), (482, 20369), (483,

20372), (491, 20408), (494, 20426), (497, 20438), (500, 20447), (509, 20474), (524, 20543), (527, 20561), (529, 20570), (530, 20582), (537, 20618), (542, 20648), (546, 20669), (552, 20693), (558, 20729), (565, 20783), (577, 20843), (585, 20885), (597, 20963), (608, 21020), (612, 21044), (618, 21098), (621, 21146), (630, 21188), (633, 21212), (634, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 46
Candidate Starts for Quico_19:
(Start: 46 @17227 has 244 MA's), (58, 17248), (Start: 69 @17269 has 1 MA's), (82, 17308), (113, 17377), (115, 17386), (116, 17389), (123, 17407), (136, 17440), (140, 17455), (155, 17503), (188, 17614), (189, 17617), (202, 17647), (206, 17662), (221, 17740), (226, 17764), (239, 17830), (250, 17875), (256, 17905), (257, 17911), (259, 17929), (267, 17953), (270, 17962), (284, 17995), (286, 18001), (293, 18031), (305, 18070), (311, 18091), (315, 18106), (317, 18109), (343, 18223), (344, 18232), (345, 18238), (349, 18256), (354, 18277), (363, 18307), (367, 18319), (372, 18352), (393, 18463), (395, 18466), (404, 18493), (406, 18499), (416, 18553), (417, 18556), (438, 18643), (440, 18658), (444, 18673), (462, 18763), (466, 18784), (468, 18793), (482, 18853), (483, 18856), (489, 18886), (494, 18910), (500, 18931), (524, 19027), (527, 19045), (529, 19054), (530, 19066), (537, 19102), (542, 19132), (546, 19153), (552, 19177), (558, 19213), (565, 19267), (577, 19327), (585, 19369), (597, 19447), (608, 19504), (612, 19528), (618, 19582), (621, 19630), (630, 19672), (633, 19696), (634, 19699),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 46
Candidate Starts for Radiance_18:
(40, 17368), (Start: 46 @17380 has 244 MA's), (58, 17401), (Start: 69 @17422 has 1 MA's), (82, 17461), (113, 17530), (115, 17539), (116, 17542), (123, 17560), (136, 17593), (140, 17608), (155, 17656), (186, 17761), (188, 17767), (189, 17770), (205, 17812), (206, 17815), (226, 17917), (239, 17983), (250, 18028), (256, 18058), (257, 18064), (259, 18082), (267, 18106), (270, 18115), (284, 18148), (286, 18154), (293, 18184), (308, 18235), (311, 18244), (336, 18352), (340, 18364), (342, 18373), (343, 18376), (345, 18391), (348, 18406), (349, 18409), (354, 18430), (363, 18460), (367, 18472), (372, 18505), (393, 18616), (395, 18619), (404, 18646), (406, 18652), (416, 18706), (417, 18709), (425, 18736), (440, 18811), (443, 18823), (444, 18826), (457, 18892), (461, 18913), (462, 18916), (466, 18937), (468, 18946), (482, 19006), (483, 19009), (489, 19039), (494, 19063), (497, 19075), (500, 19084), (524, 19180), (527, 19198), (529, 19207), (530, 19219), (542, 19285), (545, 19294), (546, 19306), (552, 19330), (558, 19366), (585, 19522), (608, 19657), (612, 19681), (618, 19735), (627, 19804), (633, 19849), (634, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 88
Candidate Starts for Rakim_27:
(Start: 88 @22397 has 134 MA's), (153, 22574), (158, 22595), (212, 22742), (240, 22883), (249, 22916), (256, 22949), (263, 22985), (293, 23078), (311, 23138), (317, 23156), (335, 23237), (386, 23465), (393, 23510), (440, 23705), (441, 23711), (444, 23720), (452, 23765), (454, 23780), (491, 23936), (494, 23954), (496, 23963), (512, 24017), (527, 24092), (528, 24095), (564, 24305), (566, 24317), (593, 24431), (621, 24647), (634, 24731), (639, 24755), (641, 24764),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 46
Candidate Starts for Ramsey_19:
(Start: 46 @17429 has 244 MA's), (58, 17450), (Start: 69 @17471 has 1 MA's), (82, 17510), (113, 17579), (115, 17588), (116, 17591), (123, 17609), (140, 17657), (188, 17816), (189, 17819), (206, 17864), (221, 17942), (226, 17966), (239, 18032), (256, 18107), (257, 18113), (259, 18131), (267, 18155), (269, 18161), (270, 18164), (284, 18197), (286, 18203), (293, 18233), (301, 18254), (308, 18284), (311, 18293), (336, 18401), (340, 18413), (342, 18422), (343, 18425), (345, 18440), (348, 18455), (349, 18458), (354, 18479), (367, 18521), (372, 18554), (393, 18665), (395, 18668), (404, 18695), (406, 18701), (416, 18755), (417, 18758), (425, 18785), (440, 18860), (443, 18872), (444, 18875), (457, 18941), (461, 18962), (462, 18965), (466, 18986), (468, 18995), (478, 19037), (482,

19055), (483, 19058), (489, 19088), (494, 19112), (497, 19124), (500, 19133), (524, 19229), (527, 19247), (529, 19256), (530, 19268), (537, 19304), (542, 19334), (545, 19343), (546, 19355), (558, 19415), (565, 19469), (577, 19529), (585, 19571), (608, 19706), (612, 19730), (618, 19784), (621, 19832), (630, 19874), (633, 19898), (634, 19901),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 46
Candidate Starts for RedBird_18:
(Start: 46 @17357 has 244 MA's), (58, 17378), (Start: 69 @17399 has 1 MA's), (82, 17438), (113, 17507), (115, 17516), (116, 17519), (123, 17537), (140, 17585), (186, 17738), (189, 17747), (206, 17792), (225, 17891), (226, 17894), (239, 17960), (256, 18035), (257, 18041), (259, 18059), (267, 18083), (269, 18089), (270, 18092), (284, 18125), (286, 18131), (293, 18161), (301, 18182), (308, 18212), (311, 18221), (315, 18236), (317, 18239), (342, 18350), (343, 18353), (344, 18362), (345, 18368), (348, 18383), (349, 18386), (354, 18407), (363, 18437), (367, 18449), (372, 18482), (393, 18593), (395, 18596), (404, 18623), (406, 18629), (416, 18683), (417, 18686), (438, 18773), (440, 18788), (443, 18800), (444, 18803), (457, 18869), (462, 18893), (466, 18914), (468, 18923), (482, 18983), (483, 18986), (491, 19022), (494, 19040), (497, 19052), (500, 19061), (509, 19088), (522, 19145), (524, 19157), (527, 19175), (529, 19184), (530, 19196), (537, 19232), (542, 19262), (545, 19271), (546, 19283), (558, 19343), (565, 19397), (577, 19457), (585, 19499), (608, 19634), (612, 19658), (618, 19712), (621, 19760), (630, 19802), (633, 19826), (634, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 50
Candidate Starts for Renaud18_20:
(Start: 50 @17833 has 3 MA's), (54, 17839), (58, 17845), (Start: 88 @17908 has 134 MA's), (89, 17911), (101, 17938), (119, 17992), (123, 18001), (136, 18034), (149, 18067), (155, 18100), (174, 18139), (179, 18154), (189, 18190), (190, 18196), (191, 18199), (204, 18217), (206, 18229), (209, 18241), (214, 18265), (215, 18268), (247, 18412), (250, 18421), (256, 18445), (259, 18469), (267, 18493), (269, 18499), (277, 18520), (286, 18541), (293, 18571), (303, 18601), (308, 18622), (333, 18715), (335, 18730), (336, 18739), (342, 18760), (343, 18763), (350, 18805), (363, 18847), (364, 18850), (367, 18859), (371, 18886), (380, 18934), (384, 18955), (386, 18958), (392, 18994), (399, 19015), (416, 19093), (417, 19096), (433, 19150), (443, 19210), (462, 19303), (466, 19324), (475, 19360), (486, 19414), (489, 19423), (507, 19501), (512, 19519), (519, 19555), (520, 19558), (524, 19576), (525, 19579), (527, 19594), (530, 19615), (537, 19651), (539, 19663), (552, 19726), (558, 19759), (569, 19846), (580, 19894), (584, 19918), (590, 19945), (593, 19954), (596, 19993), (604, 20032), (608, 20056), (611, 20077), (621, 20173), (627, 20194), (637, 20257), (641, 20284), (644, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 46
Candidate Starts for Rialto_20:
(Start: 46 @17909 has 244 MA's), (58, 17930), (Start: 69 @17951 has 1 MA's), (82, 17990), (113, 18059), (115, 18068), (116, 18071), (123, 18089), (140, 18137), (186, 18290), (189, 18299), (206, 18344), (225, 18443), (226, 18446), (239, 18512), (256, 18587), (257, 18593), (259, 18611), (267, 18635), (269, 18641), (270, 18644), (284, 18677), (286, 18683), (293, 18713), (301, 18734), (308, 18764), (311, 18773), (315, 18788), (317, 18791), (342, 18902), (343, 18905), (344, 18914), (345, 18920), (348, 18935), (349, 18938), (354, 18959), (363, 18989), (367, 19001), (372, 19034), (393, 19145), (395, 19148), (404, 19175), (406, 19181), (416, 19235), (417, 19238), (440, 19340), (443, 19352), (444, 19355), (457, 19421), (462, 19445), (466, 19466), (468, 19475), (482, 19535), (483, 19538), (491, 19574), (494, 19592), (497, 19604), (500, 19613), (509, 19640), (522, 19697), (524, 19709), (527, 19727), (529, 19736), (530, 19748), (537, 19784), (542, 19814), (545, 19823), (546, 19835), (558, 19895), (565, 19949), (577, 20009), (585, 20051), (608, 20186), (612, 20210), (618, 20264), (621, 20312), (630, 20354), (633, 20378), (634, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 88
Candidate Starts for Rimmer_25:

(Start: 88 @21850 has 134 MA's), (153, 22027), (158, 22048), (212, 22195), (240, 22336), (249, 22369), (256, 22402), (263, 22438), (293, 22531), (311, 22591), (317, 22609), (346, 22741), (357, 22786), (386, 22918), (393, 22963), (437, 23137), (440, 23158), (449, 23197), (452, 23218), (454, 23233), (491, 23389), (494, 23407), (511, 23461), (527, 23545), (545, 23638), (593, 23884), (621, 24100), (634, 24184), (641, 24217),

Gene: Rinkes_33 Start: 31333, Stop: 33816, Start Num: 57
Candidate Starts for Rinkes_33:
(Start: 57 @31333 has 3 MA's), (61, 31342), (95, 31429), (98, 31435), (103, 31447), (109, 31462), (123, 31504), (125, 31507), (144, 31570), (188, 31708), (204, 31747), (207, 31765), (215, 31807), (216, 31810), (235, 31909), (256, 31984), (260, 32011), (261, 32014), (265, 32035), (269, 32047), (312, 32209), (314, 32218), (317, 32224), (326, 32266), (327, 32269), (344, 32347), (351, 32380), (360, 32413), (366, 32431), (377, 32488), (388, 32557), (394, 32593), (433, 32758), (434, 32773), (447, 32839), (453, 32872), (454, 32881), (478, 32968), (490, 33028), (494, 33052), (506, 33097), (508, 33100), (512, 33118), (529, 33199), (565, 33421), (566, 33430), (619, 33754),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 46
Candidate Starts for Rita_18:
(Start: 46 @17410 has 244 MA's), (90, 17500), (113, 17560), (115, 17569), (116, 17572), (123, 17590), (140, 17638), (154, 17683), (188, 17797), (189, 17800), (202, 17830), (205, 17842), (206, 17845), (221, 17923), (226, 17947), (239, 18013), (250, 18058), (256, 18088), (257, 18094), (259, 18112), (267, 18136), (270, 18145), (284, 18178), (286, 18184), (293, 18214), (305, 18253), (308, 18265), (311, 18274), (315, 18289), (317, 18292), (342, 18403), (343, 18406), (344, 18415), (345, 18421), (348, 18436), (349, 18439), (354, 18460), (363, 18490), (367, 18502), (372, 18535), (393, 18646), (395, 18649), (404, 18676), (406, 18682), (416, 18736), (417, 18739), (440, 18841), (443, 18853), (444, 18856), (457, 18922), (462, 18946), (466, 18967), (468, 18976), (482, 19036), (483, 19039), (491, 19075), (494, 19093), (497, 19105), (500, 19114), (509, 19141), (524, 19210), (527, 19228), (529, 19237), (530, 19249), (537, 19285), (542, 19315), (546, 19336), (552, 19360), (558, 19396), (565, 19450), (577, 19510), (585, 19552), (597, 19630), (608, 19687), (612, 19711), (618, 19765), (621, 19813), (630, 19855), (633, 19879), (634, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 46
Candidate Starts for RitaG_18:
(Start: 46 @17539 has 244 MA's), (58, 17560), (66, 17581), (83, 17620), (113, 17689), (115, 17698), (116, 17701), (123, 17719), (136, 17752), (140, 17767), (155, 17815), (188, 17926), (189, 17929), (203, 17962), (205, 17971), (206, 17974), (221, 18052), (233, 18118), (240, 18151), (253, 18205), (256, 18217), (267, 18265), (270, 18274), (272, 18283), (287, 18316), (301, 18358), (304, 18373), (313, 18403), (314, 18409), (315, 18412), (317, 18415), (323, 18442), (328, 18463), (335, 18496), (344, 18538), (345, 18544), (346, 18547), (348, 18559), (349, 18562), (356, 18589), (363, 18613), (367, 18625), (372, 18658), (377, 18679), (390, 18751), (395, 18772), (422, 18883), (430, 18907), (431, 18910), (435, 18934), (440, 18964), (446, 18988), (452, 19024), (453, 19030), (454, 19039), (474, 19129), (478, 19153), (479, 19168), (489, 19210), (491, 19216), (502, 19261), (525, 19357), (527, 19372), (529, 19381), (533, 19405), (545, 19468), (565, 19594), (606, 19810), (612, 19855), (621, 19957), (637, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 88
Candidate Starts for RiverMonster_26:
(Start: 88 @22039 has 134 MA's), (153, 22216), (158, 22237), (212, 22384), (249, 22558), (256, 22591), (263, 22627), (293, 22720), (311, 22780), (317, 22798), (346, 22930), (357, 22975), (386, 23107), (393, 23152), (411, 23212), (437, 23326), (440, 23347), (449, 23386), (452, 23407), (454, 23422), (489, 23572), (491, 23578), (494, 23596), (511, 23650), (527, 23734), (545, 23827), (593, 24073), (621, 24289), (634, 24373), (641, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 46
Candidate Starts for Rockne_18:
(Start: 46 @17383 has 244 MA's), (90, 17473), (113, 17533), (115, 17542), (116, 17545), (123, 17563), (140, 17611), (155, 17659), (186, 17764), (188, 17770), (189, 17773), (205, 17815), (206, 17818), (226, 17920), (239, 17986), (250, 18031), (256, 18061), (257, 18067), (259, 18085), (267, 18109), (270, 18118), (284, 18151), (286, 18157), (301, 18208), (305, 18226), (308, 18238), (311, 18247), (315, 18262), (318, 18268), (342, 18376), (344, 18388), (345, 18394), (348, 18409), (349, 18412), (354, 18433), (363, 18463), (367, 18475), (372, 18508), (386, 18574), (393, 18619), (395, 18622), (404, 18649), (406, 18655), (416, 18709), (417, 18712), (425, 18739), (440, 18814), (443, 18826), (444, 18829), (457, 18895), (461, 18916), (462, 18919), (468, 18949), (478, 18991), (482, 19009), (483, 19012), (489, 19042), (494, 19066), (497, 19078), (500, 19087), (524, 19183), (527, 19201), (529, 19210), (530, 19222), (542, 19288), (545, 19297), (546, 19309), (558, 19369), (585, 19525), (608, 19660), (612, 19684), (618, 19738), (627, 19807), (633, 19852), (634, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 46
Candidate Starts for RockyHorror_19:
(Start: 46 @17258 has 244 MA's), (58, 17279), (Start: 69 @17300 has 1 MA's), (82, 17339), (113, 17408), (115, 17417), (116, 17420), (123, 17438), (140, 17486), (186, 17639), (189, 17648), (206, 17693), (225, 17792), (226, 17795), (239, 17861), (256, 17936), (257, 17942), (259, 17960), (267, 17984), (269, 17990), (270, 17993), (284, 18026), (286, 18032), (293, 18062), (301, 18083), (308, 18113), (311, 18122), (315, 18137), (317, 18140), (342, 18251), (343, 18254), (344, 18263), (345, 18269), (348, 18284), (349, 18287), (354, 18308), (363, 18338), (367, 18350), (372, 18383), (393, 18494), (395, 18497), (404, 18524), (406, 18530), (416, 18584), (417, 18587), (438, 18674), (440, 18689), (443, 18701), (444, 18704), (457, 18770), (462, 18794), (466, 18815), (468, 18824), (482, 18884), (483, 18887), (491, 18923), (494, 18941), (497, 18953), (500, 18962), (509, 18989), (522, 19046), (524, 19058), (527, 19076), (529, 19085), (530, 19097), (537, 19133), (542, 19163), (545, 19172), (546, 19184), (558, 19244), (565, 19298), (577, 19358), (585, 19400), (608, 19535), (612, 19559), (618, 19613), (621, 19661), (630, 19703), (633, 19727), (634, 19730),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 46
Candidate Starts for Royals2015_18:
(Start: 46 @17417 has 244 MA's), (58, 17438), (90, 17507), (113, 17567), (115, 17576), (116, 17579), (123, 17597), (136, 17630), (140, 17645), (154, 17690), (188, 17804), (189, 17807), (192, 17819), (204, 17840), (205, 17849), (206, 17852), (221, 17930), (233, 17996), (240, 18029), (250, 18065), (254, 18089), (269, 18149), (270, 18152), (277, 18170), (298, 18233), (300, 18236), (305, 18254), (311, 18275), (317, 18293), (323, 18320), (328, 18341), (335, 18374), (345, 18422), (346, 18425), (348, 18437), (349, 18440), (354, 18461), (363, 18491), (367, 18503), (372, 18536), (386, 18602), (393, 18647), (395, 18650), (404, 18677), (406, 18683), (416, 18737), (417, 18740), (425, 18767), (440, 18842), (443, 18854), (444, 18857), (457, 18923), (462, 18947), (468, 18977), (478, 19019), (482, 19037), (483, 19040), (491, 19076), (494, 19094), (500, 19115), (509, 19142), (524, 19211), (527, 19229), (529, 19238), (530, 19250), (537, 19286), (546, 19337), (550, 19355), (558, 19397), (565, 19451), (585, 19553), (597, 19631), (608, 19688), (612, 19712), (618, 19766), (621, 19814), (633, 19880), (634, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 46
Candidate Starts for Ruby_18:
(Start: 46 @17371 has 244 MA's), (58, 17392), (Start: 69 @17413 has 1 MA's), (82, 17452), (113, 17521), (115, 17530), (116, 17533), (123, 17551), (136, 17584), (140, 17599), (186, 17752), (189, 17761), (206, 17806), (225, 17905), (226, 17908), (239, 17974), (256, 18049), (257, 18055), (267, 18097), (269, 18103), (270, 18106), (284, 18139), (286, 18145), (293, 18175), (301, 18196), (308, 18226), (311, 18235), (315, 18250), (317, 18253), (342, 18364), (343, 18367), (344, 18376), (345, 18382), (348, 18397), (349, 18400), (354, 18421), (363, 18451), (367, 18463), (372, 18496), (393, 18607), (395, 18610), (404, 18637), (406, 18643), (416, 18697), (417, 18700), (438, 18787), (440,

18802), (443, 18814), (444, 18817), (457, 18883), (462, 18907), (466, 18928), (468, 18937), (478, 18979), (482, 18997), (483, 19000), (489, 19030), (494, 19054), (497, 19066), (500, 19075), (524, 19171), (527, 19189), (529, 19198), (530, 19210), (537, 19246), (542, 19276), (545, 19285), (546, 19297), (558, 19357), (565, 19411), (577, 19471), (585, 19513), (608, 19648), (612, 19672), (618, 19726), (621, 19774), (630, 19816), (633, 19840), (634, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 60
Candidate Starts for Ryadel_62:
(Start: 60 @36906 has 35 MA's), (74, 36939), (100, 37008), (101, 37011), (109, 37035), (116, 37059), (126, 37083), (136, 37116), (193, 37323), (197, 37335), (198, 37338), (231, 37485), (233, 37515), (239, 37539), (250, 37569), (251, 37572), (256, 37599), (259, 37623), (269, 37653), (290, 37710), (305, 37770), (308, 37782), (315, 37806), (317, 37809), (326, 37851), (348, 37947), (349, 37950), (409, 38205), (440, 38349), (452, 38409), (465, 38481), (466, 38484), (487, 38580), (527, 38754), (529, 38763), (530, 38775), (548, 38868), (551, 38880), (565, 38970), (581, 39045), (596, 39090), (626, 39291), (632, 39345), (637, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 46
Candidate Starts for SG4_18:
(Start: 46 @17548 has 244 MA's), (58, 17569), (Start: 69 @17590 has 1 MA's), (81, 17626), (82, 17629), (113, 17698), (115, 17707), (116, 17710), (123, 17728), (136, 17761), (140, 17776), (155, 17824), (188, 17935), (189, 17938), (202, 17968), (205, 17980), (206, 17983), (221, 18061), (226, 18085), (239, 18151), (250, 18196), (256, 18226), (257, 18232), (259, 18250), (267, 18274), (270, 18283), (284, 18316), (286, 18322), (301, 18373), (305, 18391), (308, 18403), (311, 18412), (315, 18427), (317, 18430), (342, 18541), (343, 18544), (344, 18553), (345, 18559), (348, 18574), (349, 18577), (354, 18598), (363, 18628), (367, 18640), (372, 18673), (386, 18739), (393, 18784), (395, 18787), (404, 18814), (406, 18820), (416, 18874), (417, 18877), (440, 18979), (443, 18991), (444, 18994), (457, 19060), (462, 19084), (466, 19105), (468, 19114), (482, 19174), (483, 19177), (491, 19213), (494, 19231), (497, 19243), (500, 19252), (509, 19279), (524, 19348), (527, 19366), (529, 19375), (530, 19387), (537, 19423), (542, 19453), (546, 19474), (552, 19498), (558, 19534), (565, 19588), (577, 19648), (585, 19690), (608, 19825), (612, 19849), (618, 19903), (621, 19951), (633, 20017), (634, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 46
Candidate Starts for Saal_18:
(Start: 46 @17383 has 244 MA's), (58, 17404), (Start: 69 @17425 has 1 MA's), (82, 17464), (113, 17533), (115, 17542), (116, 17545), (123, 17563), (140, 17611), (186, 17764), (189, 17773), (206, 17818), (221, 17896), (226, 17920), (239, 17986), (250, 18031), (256, 18061), (257, 18067), (259, 18085), (267, 18109), (270, 18118), (284, 18151), (286, 18157), (293, 18187), (305, 18226), (311, 18247), (315, 18262), (317, 18265), (343, 18379), (344, 18388), (345, 18394), (349, 18412), (354, 18433), (363, 18463), (367, 18475), (372, 18508), (393, 18619), (395, 18622), (404, 18649), (406, 18655), (416, 18709), (417, 18712), (438, 18799), (440, 18814), (444, 18829), (462, 18919), (466, 18940), (468, 18949), (482, 19009), (483, 19012), (491, 19048), (494, 19066), (497, 19078), (500, 19087), (509, 19114), (524, 19183), (527, 19201), (529, 19210), (530, 19222), (537, 19258), (542, 19288), (546, 19309), (552, 19333), (558, 19369), (565, 19423), (585, 19525), (597, 19603), (608, 19660), (612, 19684), (618, 19738), (621, 19786), (630, 19828), (636, 19861), (637, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 46
Candidate Starts for Sabbb_19:
(Start: 46 @17625 has 244 MA's), (58, 17646), (66, 17667), (83, 17706), (113, 17775), (115, 17784), (116, 17787), (123, 17805), (140, 17853), (155, 17901), (188, 18012), (189, 18015), (203, 18048), (206, 18060), (221, 18138), (233, 18204), (240, 18237), (253, 18291), (256, 18303), (269, 18357), (270, 18360), (272, 18369), (287, 18402), (299, 18441), (301, 18444), (304, 18459), (305, 18462), (313, 18489), (314, 18495), (315, 18498), (317, 18501), (323, 18528), (327, 18546), (328, 18549),

(344, 18624), (348, 18645), (349, 18648), (356, 18675), (363, 18699), (372, 18744), (373, 18747), (382, 18798), (395, 18861), (399, 18870), (405, 18894), (431, 18999), (432, 19002), (440, 19053), (441, 19059), (443, 19065), (444, 19068), (452, 19113), (454, 19128), (461, 19155), (466, 19179), (478, 19230), (482, 19248), (483, 19251), (484, 19263), (497, 19317), (527, 19440), (538, 19503), (550, 19566), (560, 19641), (599, 19842), (629, 20070), (636, 20109), (637, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 88
Candidate Starts for Saints25_27:
(Start: 88 @21945 has 134 MA's), (153, 22122), (158, 22143), (212, 22290), (240, 22431), (249, 22464), (256, 22497), (263, 22533), (293, 22626), (311, 22686), (317, 22704), (346, 22836), (357, 22881), (386, 23013), (393, 23058), (411, 23118), (437, 23232), (440, 23253), (449, 23292), (452, 23313), (454, 23328), (489, 23478), (491, 23484), (494, 23502), (511, 23556), (527, 23640), (545, 23733), (593, 23979), (621, 24195), (634, 24279), (641, 24312),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 46
Candidate Starts for Sandalphon_19:
(40, 17942), (Start: 46 @17954 has 244 MA's), (58, 17975), (Start: 69 @17996 has 1 MA's), (82, 18035), (113, 18104), (115, 18113), (116, 18116), (136, 18167), (140, 18182), (155, 18230), (188, 18341), (189, 18344), (202, 18374), (205, 18386), (206, 18389), (221, 18467), (226, 18491), (239, 18557), (250, 18602), (256, 18632), (257, 18638), (259, 18656), (267, 18680), (270, 18689), (284, 18722), (286, 18728), (293, 18758), (305, 18797), (308, 18809), (311, 18818), (315, 18833), (317, 18836), (342, 18947), (343, 18950), (344, 18959), (345, 18965), (348, 18980), (349, 18983), (354, 19004), (363, 19034), (367, 19046), (372, 19079), (393, 19190), (395, 19193), (404, 19220), (406, 19226), (416, 19280), (417, 19283), (440, 19385), (443, 19397), (444, 19400), (457, 19466), (462, 19490), (466, 19511), (468, 19520), (482, 19580), (483, 19583), (491, 19619), (494, 19637), (497, 19649), (500, 19658), (509, 19685), (524, 19754), (527, 19772), (529, 19781), (530, 19793), (537, 19829), (542, 19859), (546, 19880), (552, 19904), (558, 19940), (565, 19994), (577, 20054), (585, 20096), (597, 20174), (608, 20231), (612, 20255), (618, 20309), (621, 20357), (630, 20399), (633, 20423), (634, 20426),

Gene: Sassafras_18 Start: 17532, Stop: 20069, Start Num: 46
Candidate Starts for Sassafras_18:
(Start: 46 @17532 has 244 MA's), (58, 17553), (Start: 69 @17574 has 1 MA's), (82, 17613), (113, 17682), (115, 17691), (116, 17694), (123, 17712), (140, 17760), (155, 17808), (188, 17919), (189, 17922), (206, 17967), (221, 18045), (226, 18069), (239, 18135), (256, 18210), (257, 18216), (259, 18234), (267, 18258), (270, 18267), (284, 18300), (286, 18306), (293, 18336), (301, 18357), (308, 18387), (311, 18396), (336, 18504), (340, 18516), (342, 18525), (343, 18528), (345, 18543), (348, 18558), (349, 18561), (354, 18582), (367, 18624), (372, 18657), (393, 18768), (395, 18771), (404, 18798), (406, 18804), (416, 18858), (417, 18861), (425, 18888), (440, 18963), (443, 18975), (444, 18978), (457, 19044), (461, 19065), (462, 19068), (466, 19089), (468, 19098), (478, 19140), (482, 19158), (483, 19161), (489, 19191), (494, 19215), (497, 19227), (500, 19236), (524, 19332), (527, 19350), (529, 19359), (530, 19371), (537, 19407), (542, 19437), (545, 19446), (546, 19458), (558, 19518), (565, 19572), (577, 19632), (585, 19674), (608, 19809), (612, 19833), (618, 19887), (621, 19935), (630, 19977), (633, 20001), (634, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 88
Candidate Starts for Sassay_25:
(Start: 88 @21788 has 134 MA's), (153, 21965), (158, 21986), (212, 22133), (240, 22274), (249, 22307), (256, 22340), (263, 22376), (293, 22469), (311, 22529), (317, 22547), (346, 22679), (357, 22724), (386, 22856), (393, 22901), (411, 22961), (437, 23075), (440, 23096), (449, 23135), (452, 23156), (454, 23171), (489, 23321), (491, 23327), (494, 23345), (511, 23399), (527, 23483), (545, 23576), (593, 23822), (621, 24038), (634, 24122), (641, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 46
Candidate Starts for SassyB_18:
(40, 17433), (Start: 46 @17445 has 244 MA's), (58, 17466), (Start: 69 @17487 has 1 MA's), (82, 17526), (113, 17595), (115, 17604), (116, 17607), (123, 17625), (136, 17658), (140, 17673), (188, 17832), (189, 17835), (206, 17880), (221, 17958), (226, 17982), (239, 18048), (256, 18123), (257, 18129), (259, 18147), (267, 18171), (269, 18177), (270, 18180), (284, 18213), (286, 18219), (293, 18249), (301, 18270), (308, 18300), (311, 18309), (332, 18390), (344, 18450), (345, 18456), (348, 18471), (349, 18474), (354, 18495), (367, 18537), (372, 18570), (373, 18573), (404, 18711), (406, 18717), (416, 18771), (417, 18774), (425, 18801), (440, 18876), (443, 18888), (444, 18891), (457, 18957), (462, 18981), (466, 19002), (468, 19011), (482, 19071), (483, 19074), (491, 19110), (494, 19128), (500, 19149), (524, 19245), (527, 19263), (529, 19272), (530, 19284), (537, 19320), (542, 19350), (558, 19431), (565, 19485), (585, 19587), (608, 19722), (612, 19746), (618, 19800), (621, 19848), (630, 19890), (633, 19914), (634, 19917),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 60
Candidate Starts for SchoolBus_58:
(Start: 60 @36090 has 35 MA's), (74, 36123), (100, 36192), (101, 36195), (109, 36219), (116, 36243), (126, 36267), (136, 36300), (193, 36507), (197, 36519), (198, 36522), (231, 36669), (233, 36699), (239, 36723), (250, 36753), (251, 36756), (256, 36783), (259, 36807), (269, 36837), (290, 36894), (294, 36918), (305, 36954), (308, 36966), (315, 36990), (317, 36993), (326, 37035), (348, 37131), (349, 37134), (409, 37389), (440, 37533), (452, 37593), (465, 37665), (466, 37668), (487, 37764), (527, 37938), (530, 37959), (548, 38052), (551, 38064), (565, 38154), (581, 38229), (596, 38274), (626, 38475), (632, 38529), (637, 38544),

Gene: Schuy_59 Start: 35881, Stop: 38391, Start Num: 60
Candidate Starts for Schuy_59:
(Start: 60 @35881 has 35 MA's), (74, 35914), (100, 35983), (101, 35986), (109, 36010), (116, 36034), (126, 36058), (136, 36091), (193, 36298), (197, 36310), (198, 36313), (231, 36460), (233, 36490), (239, 36514), (250, 36544), (251, 36547), (256, 36574), (259, 36598), (269, 36628), (290, 36685), (294, 36709), (305, 36745), (308, 36757), (315, 36781), (317, 36784), (326, 36826), (348, 36922), (349, 36925), (409, 37180), (440, 37324), (452, 37384), (465, 37456), (466, 37459), (487, 37555), (527, 37729), (530, 37750), (548, 37843), (551, 37855), (565, 37945), (581, 38020), (596, 38065), (626, 38266), (632, 38320), (637, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 46
Candidate Starts for Scottish_19:
(40, 18689), (Start: 46 @18701 has 244 MA's), (58, 18722), (Start: 69 @18743 has 1 MA's), (82, 18782), (113, 18851), (115, 18860), (116, 18863), (123, 18881), (140, 18929), (155, 18977), (188, 19088), (189, 19091), (206, 19136), (221, 19214), (226, 19238), (239, 19304), (250, 19349), (256, 19379), (257, 19385), (259, 19403), (267, 19427), (270, 19436), (284, 19469), (286, 19475), (293, 19505), (305, 19544), (308, 19556), (311, 19565), (315, 19580), (317, 19583), (342, 19694), (343, 19697), (344, 19706), (345, 19712), (348, 19727), (349, 19730), (354, 19751), (363, 19781), (367, 19793), (372, 19826), (393, 19937), (395, 19940), (404, 19967), (406, 19973), (416, 20027), (417, 20030), (440, 20132), (443, 20144), (444, 20147), (457, 20213), (462, 20237), (466, 20258), (468, 20267), (482, 20327), (483, 20330), (491, 20366), (494, 20384), (500, 20405), (509, 20432), (524, 20501), (527, 20519), (529, 20528), (530, 20540), (537, 20576), (546, 20627), (550, 20645), (558, 20687), (565, 20741), (585, 20843), (608, 20978), (612, 21002), (618, 21056), (627, 21125), (633, 21170), (634, 21173),

Gene: SeaLumen_19 Start: 17446, Stop: 19983, Start Num: 46
Candidate Starts for SeaLumen_19:
(Start: 46 @17446 has 244 MA's), (58, 17467), (Start: 69 @17488 has 1 MA's), (81, 17524), (82, 17527), (113, 17596), (115, 17605), (116, 17608), (123, 17626), (136, 17659), (140, 17674), (155,

17722), (186, 17827), (188, 17833), (189, 17836), (205, 17878), (206, 17881), (226, 17983), (239, 18049), (250, 18094), (256, 18124), (257, 18130), (259, 18148), (267, 18172), (270, 18181), (284, 18214), (286, 18220), (301, 18271), (305, 18289), (308, 18301), (311, 18310), (315, 18325), (318, 18331), (342, 18439), (344, 18451), (345, 18457), (348, 18472), (349, 18475), (354, 18496), (363, 18526), (367, 18538), (372, 18571), (386, 18637), (393, 18682), (395, 18685), (404, 18712), (406, 18718), (416, 18772), (417, 18775), (438, 18862), (440, 18877), (443, 18889), (444, 18892), (457, 18958), (466, 19003), (468, 19012), (482, 19072), (483, 19075), (491, 19111), (494, 19129), (497, 19141), (500, 19150), (509, 19177), (524, 19246), (527, 19264), (529, 19273), (530, 19285), (537, 19321), (542, 19351), (546, 19372), (552, 19396), (558, 19432), (565, 19486), (577, 19546), (585, 19588), (597, 19666), (608, 19723), (612, 19747), (618, 19801), (621, 19849), (630, 19891), (633, 19915), (634, 19918),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 46
Candidate Starts for Seabastian_18:
(Start: 46 @17634 has 244 MA's), (58, 17655), (Start: 69 @17676 has 1 MA's), (82, 17715), (113, 17784), (115, 17793), (116, 17796), (123, 17814), (140, 17862), (188, 18021), (189, 18024), (205, 18066), (206, 18069), (221, 18147), (225, 18168), (226, 18171), (239, 18237), (240, 18246), (250, 18282), (256, 18312), (257, 18318), (267, 18360), (269, 18366), (270, 18369), (284, 18402), (286, 18408), (293, 18438), (301, 18459), (308, 18489), (311, 18498), (336, 18606), (340, 18618), (342, 18627), (343, 18630), (344, 18639), (345, 18645), (348, 18660), (349, 18663), (354, 18684), (367, 18726), (372, 18759), (404, 18900), (406, 18906), (416, 18960), (417, 18963), (425, 18990), (440, 19065), (443, 19077), (444, 19080), (457, 19146), (461, 19167), (462, 19170), (466, 19191), (478, 19242), (482, 19260), (483, 19263), (489, 19293), (494, 19317), (497, 19329), (524, 19434), (527, 19452), (529, 19461), (530, 19473), (537, 19509), (542, 19539), (546, 19560), (552, 19584), (558, 19620), (577, 19734), (585, 19776), (597, 19854), (608, 19911), (612, 19935), (618, 19989), (621, 20037), (630, 20079), (633, 20103), (634, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 46
Candidate Starts for Seagreen_19:
(40, 17229), (Start: 46 @17241 has 244 MA's), (58, 17262), (Start: 69 @17283 has 1 MA's), (82, 17322), (113, 17391), (115, 17400), (116, 17403), (123, 17421), (136, 17454), (140, 17469), (155, 17517), (186, 17622), (188, 17628), (189, 17631), (205, 17673), (206, 17676), (221, 17754), (226, 17778), (239, 17844), (250, 17889), (256, 17919), (257, 17925), (259, 17943), (267, 17967), (270, 17976), (284, 18009), (286, 18015), (293, 18045), (305, 18084), (308, 18096), (311, 18105), (315, 18120), (317, 18123), (342, 18234), (343, 18237), (344, 18246), (345, 18252), (348, 18267), (349, 18270), (354, 18291), (363, 18321), (367, 18333), (372, 18366), (393, 18477), (395, 18480), (404, 18507), (406, 18513), (416, 18567), (417, 18570), (440, 18672), (443, 18684), (444, 18687), (457, 18753), (462, 18777), (466, 18798), (468, 18807), (482, 18867), (483, 18870), (491, 18906), (494, 18924), (497, 18936), (500, 18945), (509, 18972), (524, 19041), (527, 19059), (529, 19068), (530, 19080), (537, 19116), (542, 19146), (546, 19167), (552, 19191), (558, 19227), (565, 19281), (577, 19341), (585, 19383), (597, 19461), (608, 19518), (612, 19542), (618, 19596), (621, 19644), (630, 19686), (633, 19710), (634, 19713),

Gene: Shaboozey_30 Start: 25923, Stop: 28418, Start Num: 46
Candidate Starts for Shaboozey_30:
(Start: 46 @25923 has 244 MA's), (123, 26118), (136, 26154), (140, 26169), (174, 26256), (179, 26271), (189, 26307), (190, 26313), (206, 26346), (209, 26358), (247, 26529), (250, 26538), (256, 26562), (269, 26616), (284, 26652), (286, 26658), (293, 26688), (303, 26718), (308, 26739), (311, 26748), (315, 26763), (333, 26832), (349, 26913), (350, 26922), (357, 26943), (358, 26946), (367, 26976), (373, 27012), (382, 27063), (384, 27072), (386, 27075), (390, 27102), (392, 27111), (399, 27132), (416, 27210), (417, 27213), (435, 27285), (441, 27321), (443, 27327), (451, 27369), (452, 27375), (461, 27417), (462, 27420), (466, 27441), (467, 27447), (468, 27450), (475, 27480), (507, 27621), (511, 27630), (512, 27639), (518, 27672), (524, 27696), (525, 27699), (527, 27714), (530,

27735), (537, 27771), (538, 27777), (539, 27783), (543, 27804), (548, 27831), (569, 27966), (584, 28038), (586, 28044), (593, 28062), (608, 28161), (621, 28278), (635, 28359), (637, 28362), (641, 28389),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 88
Candidate Starts for ShamWow_26:
(Start: 88 @22284 has 134 MA's), (153, 22461), (158, 22482), (212, 22629), (240, 22770), (249, 22803), (256, 22836), (263, 22872), (293, 22965), (311, 23025), (317, 23043), (350, 23199), (357, 23220), (382, 23340), (386, 23352), (393, 23397), (440, 23592), (444, 23607), (452, 23652), (454, 23667), (491, 23823), (494, 23841), (496, 23850), (527, 23979), (528, 23982), (564, 24192), (566, 24204), (593, 24318), (621, 24534), (634, 24618), (639, 24642), (641, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 46
Candidate Starts for Shauna1_18:
(41, 17438), (Start: 46 @17450 has 244 MA's), (58, 17471), (Start: 69 @17492 has 1 MA's), (84, 17531), (113, 17600), (115, 17609), (116, 17612), (123, 17630), (136, 17663), (140, 17678), (174, 17765), (179, 17780), (189, 17816), (190, 17822), (206, 17855), (209, 17867), (247, 18038), (250, 18047), (256, 18071), (269, 18125), (284, 18161), (286, 18167), (293, 18197), (303, 18227), (308, 18248), (311, 18257), (333, 18341), (345, 18404), (349, 18422), (350, 18431), (357, 18452), (358, 18455), (363, 18473), (367, 18485), (371, 18512), (373, 18521), (382, 18572), (384, 18581), (386, 18584), (390, 18611), (392, 18620), (399, 18641), (416, 18719), (417, 18722), (441, 18830), (443, 18836), (452, 18884), (461, 18926), (462, 18929), (466, 18950), (467, 18956), (468, 18959), (475, 18989), (507, 19130), (512, 19148), (518, 19181), (524, 19205), (525, 19208), (527, 19223), (530, 19244), (537, 19280), (538, 19286), (543, 19313), (548, 19340), (569, 19475), (580, 19523), (584, 19547), (593, 19571), (608, 19670), (611, 19691), (613, 19709), (621, 19787), (627, 19808), (637, 19871), (639, 19889), (644, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 88
Candidate Starts for ShereKhan_28:
(Start: 88 @23267 has 134 MA's), (153, 23444), (158, 23465), (212, 23612), (240, 23753), (249, 23786), (256, 23819), (263, 23855), (293, 23948), (311, 24008), (317, 24026), (346, 24158), (357, 24203), (386, 24335), (393, 24380), (411, 24440), (437, 24554), (440, 24575), (449, 24614), (452, 24635), (454, 24650), (489, 24800), (491, 24806), (494, 24824), (511, 24878), (527, 24962), (545, 25055), (593, 25301), (621, 25517), (634, 25601), (641, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 46
Candidate Starts for ShiLan_18:
(Start: 46 @17405 has 244 MA's), (83, 17486), (113, 17555), (115, 17564), (116, 17567), (123, 17585), (140, 17633), (154, 17678), (188, 17792), (189, 17795), (192, 17807), (203, 17828), (205, 17837), (206, 17840), (215, 17888), (221, 17918), (233, 17984), (240, 18017), (250, 18053), (254, 18077), (269, 18137), (270, 18140), (277, 18158), (299, 18221), (301, 18224), (305, 18242), (311, 18263), (317, 18281), (323, 18308), (328, 18329), (335, 18362), (344, 18404), (345, 18410), (346, 18413), (349, 18428), (356, 18455), (357, 18458), (363, 18479), (367, 18491), (372, 18524), (390, 18617), (416, 18725), (422, 18749), (425, 18755), (430, 18773), (431, 18776), (435, 18800), (440, 18830), (446, 18854), (452, 18890), (453, 18896), (454, 18905), (461, 18932), (474, 18995), (478, 19019), (479, 19034), (489, 19076), (502, 19127), (525, 19223), (527, 19238), (529, 19247), (533, 19271), (545, 19334), (552, 19370), (606, 19676), (612, 19721), (621, 19823),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 60
Candidate Starts for Shida_58:
(Start: 60 @35788 has 35 MA's), (74, 35821), (100, 35890), (101, 35893), (109, 35917), (116, 35941), (126, 35965), (136, 35998), (193, 36205), (197, 36217), (198, 36220), (231, 36367), (233, 36397), (239, 36421), (250, 36451), (251, 36454), (256, 36481), (259, 36505), (269, 36535), (290, 36592),

(305, 36652), (308, 36664), (315, 36688), (317, 36691), (326, 36733), (348, 36829), (349, 36832), (409, 37087), (440, 37231), (452, 37291), (465, 37363), (466, 37366), (487, 37462), (527, 37636), (530, 37657), (548, 37750), (551, 37762), (565, 37852), (581, 37927), (596, 37972), (626, 38173), (632, 38227), (637, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 60
Candidate Starts for Shipwreck_20:
(Start: 60 @18739 has 35 MA's), (116, 18892), (225, 19297), (231, 19312), (233, 19342), (234, 19348), (239, 19366), (267, 19474), (286, 19525), (317, 19636), (318, 19639), (326, 19678), (335, 19711), (349, 19777), (367, 19837), (371, 19864), (372, 19870), (440, 20176), (452, 20236), (460, 20284), (461, 20287), (465, 20308), (466, 20311), (527, 20572), (550, 20695), (551, 20698), (565, 20788), (576, 20845), (581, 20866), (599, 20926), (628, 21127), (632, 21169),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 46
Candidate Starts for ShowerHandel_18:
(Start: 46 @17406 has 244 MA's), (83, 17487), (113, 17556), (115, 17565), (116, 17568), (123, 17586), (140, 17634), (154, 17679), (188, 17793), (189, 17796), (192, 17808), (203, 17829), (205, 17838), (206, 17841), (215, 17889), (221, 17919), (233, 17985), (240, 18018), (250, 18054), (254, 18078), (269, 18138), (270, 18141), (277, 18159), (299, 18222), (301, 18225), (305, 18243), (311, 18264), (317, 18282), (323, 18309), (328, 18330), (335, 18363), (344, 18405), (345, 18411), (346, 18414), (349, 18429), (356, 18456), (357, 18459), (363, 18480), (367, 18492), (372, 18525), (390, 18618), (416, 18726), (422, 18750), (425, 18756), (430, 18774), (431, 18777), (435, 18801), (440, 18831), (446, 18855), (452, 18891), (453, 18897), (454, 18906), (461, 18933), (474, 18996), (478, 19020), (479, 19035), (489, 19077), (502, 19128), (525, 19224), (527, 19239), (529, 19248), (533, 19272), (545, 19335), (552, 19371), (606, 19677), (612, 19722), (621, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 46
Candidate Starts for ShroomBoi_18:
(Start: 46 @17435 has 244 MA's), (58, 17456), (Start: 69 @17477 has 1 MA's), (84, 17516), (113, 17585), (115, 17594), (116, 17597), (123, 17615), (140, 17663), (174, 17750), (179, 17765), (189, 17801), (190, 17807), (206, 17840), (209, 17852), (247, 18023), (250, 18032), (256, 18056), (269, 18110), (284, 18146), (286, 18152), (293, 18182), (303, 18212), (308, 18233), (311, 18242), (315, 18257), (333, 18326), (349, 18407), (350, 18416), (358, 18440), (367, 18470), (373, 18506), (382, 18557), (384, 18566), (386, 18569), (390, 18596), (392, 18605), (399, 18626), (416, 18704), (441, 18815), (443, 18821), (452, 18869), (461, 18911), (462, 18914), (466, 18935), (467, 18941), (468, 18944), (475, 18974), (507, 19115), (512, 19133), (518, 19166), (524, 19190), (525, 19193), (527, 19208), (530, 19229), (537, 19265), (538, 19271), (539, 19277), (543, 19298), (548, 19325), (569, 19460), (580, 19508), (584, 19532), (586, 19538), (593, 19556), (608, 19655), (621, 19772), (635, 19853), (637, 19856), (641, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 46
Candidate Starts for SiSi_18:
(40, 17377), (Start: 46 @17389 has 244 MA's), (58, 17410), (Start: 69 @17431 has 1 MA's), (82, 17470), (113, 17539), (115, 17548), (116, 17551), (123, 17569), (136, 17602), (140, 17617), (155, 17665), (188, 17776), (189, 17779), (202, 17809), (205, 17821), (206, 17824), (221, 17902), (226, 17926), (239, 17992), (250, 18037), (256, 18067), (257, 18073), (259, 18091), (267, 18115), (270, 18124), (284, 18157), (286, 18163), (293, 18193), (305, 18232), (308, 18244), (311, 18253), (315, 18268), (317, 18271), (342, 18382), (344, 18394), (345, 18400), (348, 18415), (349, 18418), (354, 18439), (363, 18469), (367, 18481), (372, 18514), (386, 18580), (393, 18625), (395, 18628), (404, 18655), (406, 18661), (416, 18715), (417, 18718), (425, 18745), (440, 18820), (443, 18832), (444, 18835), (457, 18901), (462, 18925), (468, 18955), (478, 18997), (482, 19015), (483, 19018), (491, 19054), (494, 19072), (500, 19093), (509, 19120), (524, 19189), (527, 19207), (529, 19216), (530, 19228), (537, 19264), (546, 19315), (550, 19333), (558, 19375), (565, 19429), (577, 19489), (585,

19531), (597, 19609), (608, 19666), (612, 19690), (618, 19744), (621, 19792), (633, 19858), (634, 19861),

Gene: SilverChicken_24 Start: 17093, Stop: 19555, Start Num: 76
Candidate Starts for SilverChicken_24:
(73, 17084), (76, 17093), (107, 17153), (120, 17189), (137, 17234), (141, 17246), (156, 17288), (168, 17315), (173, 17333), (176, 17345), (186, 17378), (187, 17381), (206, 17438), (208, 17447), (214, 17483), (225, 17537), (233, 17582), (239, 17606), (240, 17615), (247, 17642), (270, 17738), (277, 17756), (284, 17771), (286, 17777), (291, 17795), (299, 17819), (313, 17867), (315, 17876), (317, 17879), (328, 17927), (332, 17942), (339, 17978), (340, 17981), (345, 18008), (346, 18011), (348, 18023), (354, 18047), (358, 18059), (363, 18077), (367, 18089), (372, 18122), (377, 18143), (390, 18215), (395, 18236), (422, 18347), (425, 18353), (430, 18371), (431, 18374), (435, 18398), (440, 18428), (446, 18452), (452, 18488), (453, 18494), (454, 18503), (461, 18530), (474, 18593), (478, 18617), (479, 18632), (489, 18674), (491, 18680), (502, 18725), (525, 18821), (527, 18836), (529, 18845), (533, 18869), (545, 18932), (552, 18968), (565, 19058), (606, 19274), (611, 19316), (612, 19319), (621, 19421),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 88
Candidate Starts for Simpliphy_27:
(Start: 88 @22029 has 134 MA's), (153, 22206), (158, 22227), (212, 22374), (249, 22548), (256, 22581), (263, 22617), (293, 22710), (311, 22770), (317, 22788), (346, 22920), (357, 22965), (386, 23097), (393, 23142), (411, 23202), (437, 23316), (440, 23337), (449, 23376), (452, 23397), (454, 23412), (489, 23562), (491, 23568), (494, 23586), (511, 23640), (527, 23724), (545, 23817), (593, 24063), (621, 24279), (634, 24363), (641, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 46
Candidate Starts for SimranZ1_19:
(Start: 46 @17257 has 244 MA's), (58, 17278), (Start: 69 @17299 has 1 MA's), (82, 17338), (113, 17407), (115, 17416), (116, 17419), (123, 17437), (140, 17485), (188, 17644), (189, 17647), (202, 17677), (205, 17689), (206, 17692), (221, 17770), (226, 17794), (239, 17860), (256, 17935), (257, 17941), (259, 17959), (267, 17983), (270, 17992), (284, 18025), (286, 18031), (293, 18061), (301, 18082), (305, 18100), (308, 18112), (311, 18121), (321, 18154), (342, 18250), (343, 18253), (344, 18262), (345, 18268), (348, 18283), (349, 18286), (354, 18307), (367, 18349), (372, 18382), (386, 18448), (393, 18493), (395, 18496), (404, 18523), (406, 18529), (416, 18583), (417, 18586), (425, 18613), (431, 18634), (440, 18688), (443, 18700), (444, 18703), (457, 18769), (462, 18793), (466, 18814), (468, 18823), (478, 18865), (482, 18883), (483, 18886), (491, 18922), (494, 18940), (497, 18952), (500, 18961), (509, 18988), (522, 19045), (524, 19057), (527, 19075), (529, 19084), (530, 19096), (537, 19132), (542, 19162), (546, 19183), (552, 19207), (558, 19243), (585, 19399), (608, 19534), (612, 19558), (618, 19612), (621, 19660), (633, 19726), (634, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 88
Candidate Starts for SirDuracell_25:
(Start: 88 @20950 has 134 MA's), (153, 21127), (158, 21148), (212, 21295), (240, 21436), (249, 21469), (256, 21502), (263, 21538), (293, 21631), (311, 21691), (317, 21709), (335, 21790), (386, 22018), (393, 22063), (440, 22258), (441, 22264), (444, 22273), (452, 22318), (454, 22333), (491, 22489), (494, 22507), (496, 22516), (527, 22645), (528, 22648), (564, 22858), (566, 22870), (593, 22984), (621, 23200), (634, 23284), (639, 23308), (641, 23317),

Gene: SirHarley_29 Start: 24248, Stop: 26518, Start Num: 157
Candidate Starts for SirHarley_29:
(Start: 157 @24248 has 22 MA's), (196, 24383), (199, 24392), (233, 24566), (234, 24572), (237, 24584), (273, 24737), (282, 24752), (288, 24767), (382, 25148), (383, 25154), (391, 25199), (412, 25286), (442, 25412), (455, 25487), (456, 25493), (466, 25541), (472, 25571), (476, 25595), (515,

25784), (523, 25811), (530, 25859), (544, 25931), (552, 25970), (553, 25991), (556, 26006), (559, 26024), (561, 26054), (578, 26138), (616, 26339), (621, 26381), (647, 26507),

Gene: Slim_19 Start: 17189, Stop: 19726, Start Num: 46
Candidate Starts for Slim_19:
(Start: 46 @17189 has 244 MA's), (58, 17210), (Start: 69 @17231 has 1 MA's), (82, 17270), (113, 17339), (115, 17348), (116, 17351), (123, 17369), (140, 17417), (186, 17570), (189, 17579), (206, 17624), (225, 17723), (226, 17726), (239, 17792), (256, 17867), (257, 17873), (259, 17891), (267, 17915), (269, 17921), (270, 17924), (284, 17957), (286, 17963), (293, 17993), (301, 18014), (308, 18044), (311, 18053), (315, 18068), (317, 18071), (342, 18182), (343, 18185), (344, 18194), (345, 18200), (348, 18215), (349, 18218), (354, 18239), (363, 18269), (367, 18281), (372, 18314), (393, 18425), (395, 18428), (404, 18455), (406, 18461), (416, 18515), (417, 18518), (440, 18620), (443, 18632), (444, 18635), (457, 18701), (462, 18725), (466, 18746), (468, 18755), (482, 18815), (483, 18818), (491, 18854), (494, 18872), (497, 18884), (500, 18893), (509, 18920), (522, 18977), (524, 18989), (527, 19007), (529, 19016), (530, 19028), (537, 19064), (542, 19094), (545, 19103), (546, 19115), (558, 19175), (565, 19229), (577, 19289), (585, 19331), (608, 19466), (612, 19490), (618, 19544), (621, 19592), (630, 19634), (633, 19658), (634, 19661),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 60
Candidate Starts for Smooch_61:
(Start: 60 @37810 has 35 MA's), (74, 37843), (100, 37912), (101, 37915), (109, 37939), (116, 37963), (126, 37987), (136, 38020), (193, 38227), (197, 38239), (198, 38242), (231, 38389), (233, 38419), (239, 38443), (250, 38473), (251, 38476), (256, 38503), (259, 38527), (269, 38557), (290, 38614), (305, 38674), (308, 38686), (315, 38710), (317, 38713), (326, 38755), (348, 38851), (349, 38854), (393, 39058), (409, 39109), (440, 39253), (452, 39313), (465, 39385), (466, 39388), (487, 39484), (527, 39658), (530, 39679), (548, 39772), (551, 39784), (565, 39874), (581, 39949), (596, 39994), (626, 40195), (632, 40249), (637, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 88
Candidate Starts for SophKB_26:
(Start: 88 @22283 has 134 MA's), (153, 22460), (158, 22481), (212, 22628), (240, 22769), (249, 22802), (256, 22835), (263, 22871), (293, 22964), (311, 23024), (317, 23042), (346, 23174), (357, 23219), (386, 23351), (393, 23396), (411, 23456), (437, 23570), (440, 23591), (449, 23630), (452, 23651), (454, 23666), (489, 23816), (491, 23822), (494, 23840), (511, 23894), (527, 23978), (545, 24071), (593, 24317), (621, 24533), (634, 24617), (641, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 88
Candidate Starts for Sotrice96_26:
(Start: 88 @22239 has 134 MA's), (153, 22416), (158, 22437), (212, 22584), (240, 22725), (249, 22758), (256, 22791), (263, 22827), (293, 22920), (311, 22980), (317, 22998), (335, 23079), (386, 23307), (393, 23352), (440, 23547), (441, 23553), (444, 23562), (452, 23607), (454, 23622), (491, 23778), (494, 23796), (496, 23805), (527, 23934), (528, 23937), (564, 24147), (566, 24159), (593, 24273), (621, 24489), (634, 24573), (639, 24597), (641, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 32
Candidate Starts for Soul22_24:
(29, 17082), (Start: 32 @17091 has 7 MA's), (Start: 46 @17151 has 244 MA's), (64, 17187), (107, 17286), (155, 17427), (174, 17466), (179, 17481), (189, 17517), (190, 17523), (191, 17526), (204, 17544), (209, 17568), (214, 17592), (215, 17595), (247, 17739), (250, 17748), (256, 17772), (259, 17796), (267, 17820), (269, 17826), (277, 17847), (286, 17868), (293, 17898), (303, 17928), (308, 17949), (333, 18042), (335, 18057), (336, 18066), (342, 18087), (343, 18090), (350, 18132), (363, 18174), (364, 18177), (367, 18186), (371, 18213), (373, 18222), (380, 18261), (384, 18282), (386, 18285), (392, 18321), (399, 18342), (416, 18420), (417, 18423), (433, 18477), (443, 18537), (460,

18624), (462, 18630), (465, 18648), (466, 18651), (475, 18687), (486, 18741), (489, 18750), (507, 18828), (512, 18846), (519, 18882), (520, 18885), (524, 18903), (525, 18906), (527, 18921), (537, 18978), (539, 18990), (552, 19053), (558, 19086), (569, 19173), (580, 19221), (584, 19245), (590, 19272), (593, 19281), (596, 19320), (604, 19359), (608, 19383), (611, 19404), (621, 19500), (627, 19521), (637, 19584), (641, 19611), (644, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 46
Candidate Starts for Sparkdehlily_18:
(Start: 46 @17429 has 244 MA's), (58, 17450), (Start: 69 @17471 has 1 MA's), (82, 17510), (113, 17579), (115, 17588), (116, 17591), (123, 17609), (140, 17657), (186, 17810), (189, 17819), (206, 17864), (221, 17942), (226, 17966), (239, 18032), (250, 18077), (256, 18107), (257, 18113), (259, 18131), (267, 18155), (270, 18164), (284, 18197), (286, 18203), (293, 18233), (305, 18272), (311, 18293), (315, 18308), (317, 18311), (343, 18425), (344, 18434), (345, 18440), (349, 18458), (354, 18479), (363, 18509), (367, 18521), (372, 18554), (393, 18665), (395, 18668), (404, 18695), (406, 18701), (416, 18755), (417, 18758), (438, 18845), (440, 18860), (444, 18875), (462, 18965), (466, 18986), (468, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (497, 19124), (500, 19133), (509, 19160), (524, 19229), (527, 19247), (529, 19256), (530, 19268), (537, 19304), (542, 19334), (546, 19355), (552, 19379), (558, 19415), (565, 19469), (585, 19571), (597, 19649), (608, 19706), (612, 19730), (618, 19784), (621, 19832), (630, 19874), (636, 19907), (637, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 46
Candidate Starts for Spartacus_19:
(Start: 46 @17481 has 244 MA's), (90, 17571), (113, 17631), (115, 17640), (116, 17643), (123, 17661), (136, 17694), (140, 17709), (155, 17757), (188, 17868), (189, 17871), (202, 17901), (206, 17916), (221, 17994), (239, 18084), (250, 18129), (256, 18159), (257, 18165), (259, 18183), (267, 18207), (270, 18216), (284, 18249), (286, 18255), (293, 18285), (305, 18324), (308, 18336), (311, 18345), (315, 18360), (317, 18363), (342, 18474), (343, 18477), (344, 18486), (345, 18492), (348, 18507), (349, 18510), (354, 18531), (363, 18561), (367, 18573), (372, 18606), (393, 18717), (395, 18720), (404, 18747), (406, 18753), (416, 18807), (417, 18810), (438, 18897), (440, 18912), (443, 18924), (444, 18927), (457, 18993), (466, 19038), (468, 19047), (482, 19107), (483, 19110), (491, 19146), (494, 19164), (497, 19176), (500, 19185), (509, 19212), (524, 19281), (527, 19299), (529, 19308), (530, 19320), (537, 19356), (542, 19386), (546, 19407), (552, 19431), (558, 19467), (565, 19521), (577, 19581), (585, 19623), (597, 19701), (608, 19758), (612, 19782), (618, 19836), (621, 19884), (630, 19926), (633, 19950), (634, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 46
Candidate Starts for Spikelee_19:
(Start: 46 @17223 has 244 MA's), (58, 17244), (Start: 69 @17265 has 1 MA's), (82, 17304), (113, 17373), (115, 17382), (116, 17385), (123, 17403), (140, 17451), (186, 17604), (189, 17613), (206, 17658), (225, 17757), (226, 17760), (239, 17826), (256, 17901), (257, 17907), (259, 17925), (267, 17949), (269, 17955), (270, 17958), (284, 17991), (286, 17997), (293, 18027), (301, 18048), (308, 18078), (311, 18087), (315, 18102), (317, 18105), (342, 18216), (343, 18219), (344, 18228), (345, 18234), (348, 18249), (349, 18252), (354, 18273), (363, 18303), (367, 18315), (372, 18348), (393, 18459), (395, 18462), (404, 18489), (406, 18495), (416, 18549), (417, 18552), (438, 18639), (440, 18654), (443, 18666), (444, 18669), (457, 18735), (462, 18759), (466, 18780), (468, 18789), (482, 18849), (483, 18852), (491, 18888), (494, 18906), (497, 18918), (500, 18927), (509, 18954), (522, 19011), (524, 19023), (527, 19041), (529, 19050), (530, 19062), (537, 19098), (542, 19128), (545, 19137), (546, 19149), (558, 19209), (565, 19263), (577, 19323), (585, 19365), (608, 19500), (612, 19524), (618, 19578), (621, 19626), (630, 19668), (633, 19692), (634, 19695),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 46
Candidate Starts for Spoonbill_18:

(Start: 46 @17404 has 244 MA's), (83, 17485), (113, 17554), (115, 17563), (116, 17566), (123, 17584), (140, 17632), (154, 17677), (188, 17791), (189, 17794), (192, 17806), (203, 17827), (205, 17836), (206, 17839), (215, 17887), (221, 17917), (233, 17983), (240, 18016), (250, 18052), (254, 18076), (269, 18136), (270, 18139), (277, 18157), (299, 18220), (301, 18223), (305, 18241), (311, 18262), (317, 18280), (323, 18307), (328, 18328), (335, 18361), (344, 18403), (345, 18409), (346, 18412), (349, 18427), (356, 18454), (357, 18457), (363, 18478), (367, 18490), (372, 18523), (390, 18616), (416, 18724), (422, 18748), (425, 18754), (430, 18772), (431, 18775), (435, 18799), (440, 18829), (446, 18853), (452, 18889), (453, 18895), (454, 18904), (461, 18931), (474, 18994), (478, 19018), (479, 19033), (489, 19075), (502, 19126), (525, 19222), (527, 19237), (529, 19246), (533, 19270), (545, 19333), (552, 19369), (606, 19675), (612, 19720), (621, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 46
Candidate Starts for Squint_35:
(Start: 46 @27671 has 244 MA's), (123, 27866), (136, 27902), (140, 27917), (174, 28004), (179, 28019), (206, 28094), (209, 28106), (215, 28133), (235, 28238), (247, 28277), (250, 28286), (256, 28310), (257, 28316), (259, 28334), (265, 28352), (270, 28367), (272, 28376), (277, 28385), (284, 28400), (292, 28427), (293, 28436), (305, 28475), (308, 28487), (311, 28496), (333, 28580), (349, 28661), (357, 28691), (358, 28694), (367, 28724), (371, 28751), (373, 28760), (382, 28811), (384, 28820), (386, 28823), (392, 28859), (399, 28880), (408, 28916), (441, 29069), (452, 29123), (462, 29168), (465, 29186), (466, 29189), (475, 29228), (507, 29375), (511, 29384), (525, 29453), (527, 29468), (558, 29633), (569, 29720), (580, 29768), (593, 29819), (604, 29897), (635, 30119), (637, 30122), (641, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 46
Candidate Starts for StAnnes_18:
(40, 17435), (Start: 46 @17447 has 244 MA's), (58, 17468), (Start: 69 @17489 has 1 MA's), (82, 17528), (115, 17606), (116, 17609), (123, 17627), (136, 17660), (140, 17675), (155, 17723), (188, 17834), (189, 17837), (202, 17867), (205, 17879), (206, 17882), (221, 17960), (226, 17984), (239, 18050), (250, 18095), (256, 18125), (257, 18131), (259, 18149), (267, 18173), (270, 18182), (284, 18215), (286, 18221), (293, 18251), (308, 18302), (311, 18311), (315, 18326), (317, 18329), (342, 18440), (343, 18443), (344, 18452), (345, 18458), (348, 18473), (349, 18476), (354, 18497), (363, 18527), (367, 18539), (372, 18572), (393, 18683), (395, 18686), (404, 18713), (406, 18719), (416, 18773), (417, 18776), (438, 18863), (440, 18878), (443, 18890), (444, 18893), (457, 18959), (462, 18983), (466, 19004), (468, 19013), (482, 19073), (483, 19076), (491, 19112), (494, 19130), (497, 19142), (500, 19151), (509, 19178), (524, 19247), (527, 19265), (529, 19274), (530, 19286), (537, 19322), (542, 19352), (546, 19373), (552, 19397), (558, 19433), (565, 19487), (577, 19547), (585, 19589), (597, 19667), (608, 19724), (612, 19748), (618, 19802), (621, 19850), (630, 19892), (633, 19916), (634, 19919),

Gene: StAugustine_34 Start: 31877, Stop: 33781, Start Num: 244
Candidate Starts for StAugustine_34:
(Start: 244 @31877 has 2 MA's), (271, 31988), (281, 32006), (302, 32075), (345, 32246), (365, 32321), (383, 32423), (392, 32468), (408, 32528), (412, 32552), (420, 32582), (472, 32846), (481, 32900), (494, 32963), (504, 33011), (513, 33047), (514, 33050), (516, 33062), (523, 33086), (553, 33263), (554, 33269), (561, 33314), (562, 33317), (571, 33368), (605, 33500), (621, 33644), (636, 33725), (647, 33770),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 88
Candidate Starts for Stank_29:
(Start: 88 @22790 has 134 MA's), (153, 22967), (158, 22988), (212, 23135), (240, 23276), (249, 23309), (256, 23342), (263, 23378), (293, 23471), (311, 23531), (317, 23549), (346, 23681), (357, 23726), (386, 23858), (393, 23903), (411, 23963), (437, 24077), (440, 24098), (449, 24137), (452, 24158), (454, 24173), (489, 24323), (491, 24329), (494, 24347), (511, 24401), (527, 24485), (545,

24578), (593, 24824), (621, 25040), (634, 25124), (641, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 46
Candidate Starts for Stap_19:
(Start: 46 @17430 has 244 MA's), (58, 17451), (Start: 69 @17472 has 1 MA's), (82, 17511), (113, 17580), (115, 17589), (116, 17592), (123, 17610), (136, 17643), (140, 17658), (155, 17706), (186, 17811), (188, 17817), (189, 17820), (205, 17862), (206, 17865), (226, 17967), (239, 18033), (250, 18078), (256, 18108), (257, 18114), (259, 18132), (267, 18156), (270, 18165), (284, 18198), (286, 18204), (293, 18234), (305, 18273), (308, 18285), (311, 18294), (315, 18309), (317, 18312), (342, 18423), (343, 18426), (344, 18435), (345, 18441), (348, 18456), (349, 18459), (354, 18480), (363, 18510), (367, 18522), (372, 18555), (393, 18666), (395, 18669), (404, 18696), (406, 18702), (416, 18756), (417, 18759), (440, 18861), (443, 18873), (444, 18876), (457, 18942), (462, 18966), (466, 18987), (468, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (497, 19125), (500, 19134), (509, 19161), (524, 19230), (527, 19248), (529, 19257), (530, 19269), (537, 19305), (546, 19356), (550, 19374), (558, 19416), (565, 19470), (577, 19530), (585, 19572), (597, 19650), (608, 19707), (612, 19731), (618, 19785), (621, 19833), (633, 19899), (634, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 46
Candidate Starts for Starcevich_19:
(Start: 46 @17191 has 244 MA's), (58, 17212), (Start: 69 @17233 has 1 MA's), (82, 17272), (113, 17341), (115, 17350), (116, 17353), (123, 17371), (140, 17419), (186, 17572), (189, 17581), (206, 17626), (225, 17725), (226, 17728), (239, 17794), (256, 17869), (257, 17875), (259, 17893), (267, 17917), (269, 17923), (270, 17926), (284, 17959), (286, 17965), (293, 17995), (301, 18016), (308, 18046), (311, 18055), (315, 18070), (317, 18073), (342, 18184), (343, 18187), (344, 18196), (345, 18202), (348, 18217), (349, 18220), (354, 18241), (363, 18271), (367, 18283), (372, 18316), (393, 18427), (395, 18430), (404, 18457), (406, 18463), (416, 18517), (417, 18520), (440, 18622), (443, 18634), (444, 18637), (457, 18703), (462, 18727), (466, 18748), (468, 18757), (482, 18817), (483, 18820), (491, 18856), (494, 18874), (497, 18886), (500, 18895), (509, 18922), (522, 18979), (524, 18991), (527, 19009), (529, 19018), (530, 19030), (537, 19066), (542, 19096), (545, 19105), (546, 19117), (558, 19177), (565, 19231), (577, 19291), (585, 19333), (608, 19468), (612, 19492), (618, 19546), (621, 19594), (630, 19636), (633, 19660), (634, 19663),

Gene: Stargaze_22 Start: 20828, Stop: 23284, Start Num: 49
Candidate Starts for Stargaze_22:
(Start: 49 @20828 has 12 MA's), (110, 20972), (138, 21056), (150, 21086), (162, 21131), (211, 21290), (235, 21407), (296, 21629), (312, 21680), (317, 21695), (340, 21797), (355, 21863), (375, 21947), (394, 22061), (416, 22151), (418, 22166), (419, 22172), (421, 22181), (431, 22220), (436, 22247), (438, 22259), (452, 22334), (475, 22430), (478, 22442), (484, 22481), (519, 22616), (527, 22649), (529, 22658), (534, 22685), (550, 22784), (560, 22862), (571, 22922), (598, 23078), (619, 23222), (622, 23264),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 88
Candidate Starts for Stark_27:
(Start: 88 @22042 has 134 MA's), (153, 22219), (158, 22240), (212, 22387), (249, 22561), (256, 22594), (263, 22630), (293, 22723), (311, 22783), (317, 22801), (346, 22933), (357, 22978), (386, 23110), (393, 23155), (411, 23215), (437, 23329), (440, 23350), (449, 23389), (452, 23410), (454, 23425), (489, 23575), (491, 23581), (494, 23599), (511, 23653), (527, 23737), (545, 23830), (593, 24076), (621, 24292), (634, 24376), (641, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 88
Candidate Starts for StellaBean_26:
(Start: 88 @22283 has 134 MA's), (153, 22460), (158, 22481), (212, 22628), (240, 22769), (249, 22802), (256, 22835), (263, 22871), (293, 22964), (311, 23024), (317, 23042), (346, 23174), (357,

23219), (386, 23351), (393, 23396), (411, 23456), (437, 23570), (440, 23591), (449, 23630), (452, 23651), (454, 23666), (489, 23816), (491, 23822), (494, 23840), (511, 23894), (527, 23978), (545, 24071), (593, 24317), (621, 24533), (634, 24617), (641, 24650),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 88
Candidate Starts for StolenFromERC_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (545, 24062), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: StormChicken_26 Start: 22458, Stop: 24854, Start Num: 88
Candidate Starts for StormChicken_26:
(Start: 88 @22458 has 134 MA's), (153, 22635), (158, 22656), (212, 22803), (240, 22944), (249, 22977), (256, 23010), (263, 23046), (293, 23139), (311, 23199), (317, 23217), (346, 23349), (357, 23394), (386, 23526), (393, 23571), (411, 23631), (437, 23745), (440, 23766), (449, 23805), (452, 23826), (454, 23841), (489, 23991), (491, 23997), (494, 24015), (511, 24069), (527, 24153), (545, 24246), (593, 24492), (621, 24708), (634, 24792), (641, 24825),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 46
Candidate Starts for Strokeseat_18:
(Start: 46 @17495 has 244 MA's), (58, 17516), (Start: 69 @17537 has 1 MA's), (82, 17576), (113, 17645), (115, 17654), (116, 17657), (123, 17675), (140, 17723), (188, 17882), (189, 17885), (205, 17927), (206, 17930), (221, 18008), (225, 18029), (226, 18032), (239, 18098), (256, 18173), (257, 18179), (267, 18221), (269, 18227), (270, 18230), (284, 18263), (286, 18269), (293, 18299), (301, 18320), (308, 18350), (311, 18359), (336, 18467), (340, 18479), (342, 18488), (343, 18491), (344, 18500), (345, 18506), (348, 18521), (349, 18524), (354, 18545), (367, 18587), (372, 18620), (404, 18761), (406, 18767), (416, 18821), (417, 18824), (425, 18851), (440, 18926), (443, 18938), (444, 18941), (457, 19007), (462, 19031), (466, 19052), (468, 19061), (482, 19121), (483, 19124), (491, 19160), (494, 19178), (500, 19199), (509, 19226), (524, 19295), (527, 19313), (529, 19322), (530, 19334), (537, 19370), (542, 19400), (558, 19481), (577, 19595), (585, 19637), (608, 19772), (612, 19796), (618, 19850), (633, 19964), (634, 19967),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 46
Candidate Starts for SuperGrey_19:
(Start: 46 @18074 has 244 MA's), (58, 18095), (Start: 69 @18116 has 1 MA's), (82, 18155), (113, 18224), (115, 18233), (116, 18236), (123, 18254), (140, 18302), (188, 18461), (189, 18464), (206, 18509), (225, 18608), (226, 18611), (239, 18677), (256, 18752), (257, 18758), (259, 18776), (267, 18800), (269, 18806), (270, 18809), (284, 18842), (286, 18848), (293, 18878), (301, 18899), (308, 18929), (311, 18938), (315, 18953), (317, 18956), (342, 19067), (343, 19070), (344, 19079), (345, 19085), (348, 19100), (349, 19103), (354, 19124), (363, 19154), (367, 19166), (372, 19199), (393, 19310), (395, 19313), (404, 19340), (406, 19346), (416, 19400), (417, 19403), (438, 19490), (440, 19505), (443, 19517), (444, 19520), (457, 19586), (462, 19610), (466, 19631), (468, 19640), (482, 19700), (483, 19703), (491, 19739), (494, 19757), (497, 19769), (500, 19778), (509, 19805), (522, 19862), (524, 19874), (527, 19892), (529, 19901), (530, 19913), (537, 19949), (542, 19979), (545, 19988), (546, 20000), (558, 20060), (565, 20114), (577, 20174), (585, 20216), (597, 20294), (608, 20351), (612, 20375), (618, 20429), (621, 20477), (630, 20519), (633, 20543), (634, 20546),

Gene: SuperheroCarly_30 Start: 24178, Stop: 26448, Start Num: 157
Candidate Starts for SuperheroCarly_30:
(Start: 157 @24178 has 22 MA's), (196, 24313), (199, 24322), (233, 24496), (234, 24502), (237, 24514), (273, 24667), (282, 24682), (288, 24697), (382, 25078), (383, 25084), (391, 25129), (412,

25216), (456, 25423), (466, 25471), (472, 25501), (476, 25525), (515, 25714), (523, 25741), (530, 25789), (544, 25861), (552, 25900), (553, 25921), (556, 25936), (559, 25954), (561, 25984), (578, 26068), (616, 26269), (621, 26311), (647, 26437),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 46
Candidate Starts for Superphikiman_36:
(Start: 46 @27736 has 244 MA's), (123, 27931), (136, 27967), (140, 27982), (174, 28069), (179, 28084), (206, 28159), (209, 28171), (215, 28198), (235, 28303), (247, 28342), (250, 28351), (256, 28375), (257, 28381), (259, 28399), (265, 28417), (270, 28432), (272, 28441), (277, 28450), (284, 28465), (292, 28492), (293, 28501), (305, 28540), (308, 28552), (311, 28561), (333, 28645), (349, 28726), (357, 28756), (358, 28759), (367, 28789), (371, 28816), (373, 28825), (382, 28876), (384, 28885), (386, 28888), (392, 28924), (399, 28945), (408, 28981), (441, 29134), (452, 29188), (462, 29233), (465, 29251), (466, 29254), (475, 29293), (507, 29440), (511, 29449), (525, 29518), (527, 29533), (558, 29698), (569, 29785), (580, 29833), (593, 29884), (604, 29962), (635, 30184), (637, 30187), (641, 30214),

Gene: SwagPigglett_18 Start: 17406, Stop: 19943, Start Num: 46
Candidate Starts for SwagPigglett_18:
(Start: 46 @17406 has 244 MA's), (58, 17427), (Start: 69 @17448 has 1 MA's), (82, 17487), (113, 17556), (115, 17565), (116, 17568), (123, 17586), (140, 17634), (186, 17787), (189, 17796), (206, 17841), (221, 17919), (226, 17943), (239, 18009), (250, 18054), (256, 18084), (257, 18090), (259, 18108), (267, 18132), (270, 18141), (284, 18174), (286, 18180), (293, 18210), (305, 18249), (311, 18270), (315, 18285), (317, 18288), (343, 18402), (344, 18411), (345, 18417), (349, 18435), (354, 18456), (363, 18486), (367, 18498), (372, 18531), (393, 18642), (395, 18645), (404, 18672), (406, 18678), (416, 18732), (417, 18735), (438, 18822), (440, 18837), (444, 18852), (462, 18942), (466, 18963), (468, 18972), (482, 19032), (483, 19035), (491, 19071), (494, 19089), (497, 19101), (500, 19110), (509, 19137), (524, 19206), (527, 19224), (529, 19233), (530, 19245), (537, 19281), (542, 19311), (546, 19332), (552, 19356), (558, 19392), (565, 19446), (585, 19548), (597, 19626), (608, 19683), (612, 19707), (618, 19761), (621, 19809), (630, 19851), (636, 19884), (637, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 88
Candidate Starts for TBrady12_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (240, 22760), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (545, 24062), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 46
Candidate Starts for TDanisky_18:
(Start: 46 @17429 has 244 MA's), (58, 17450), (Start: 69 @17471 has 1 MA's), (82, 17510), (113, 17579), (115, 17588), (116, 17591), (123, 17609), (140, 17657), (186, 17810), (189, 17819), (206, 17864), (221, 17942), (226, 17966), (239, 18032), (250, 18077), (256, 18107), (257, 18113), (259, 18131), (267, 18155), (270, 18164), (284, 18197), (286, 18203), (293, 18233), (305, 18272), (311, 18293), (315, 18308), (317, 18311), (343, 18425), (344, 18434), (345, 18440), (349, 18458), (354, 18479), (363, 18509), (367, 18521), (372, 18554), (393, 18665), (395, 18668), (404, 18695), (406, 18701), (416, 18755), (417, 18758), (438, 18845), (440, 18860), (444, 18875), (462, 18965), (466, 18986), (468, 18995), (482, 19055), (483, 19058), (491, 19094), (494, 19112), (497, 19124), (500, 19133), (509, 19160), (524, 19229), (527, 19247), (529, 19256), (530, 19268), (537, 19304), (542, 19334), (546, 19355), (552, 19379), (558, 19415), (565, 19469), (585, 19571), (597, 19649), (608, 19706), (612, 19730), (618, 19784), (621, 19832), (630, 19874), (636, 19907), (637, 19910),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 46

Candidate Starts for Taj_18:
(40, 17418), (Start: 46 @17430 has 244 MA's), (58, 17451), (Start: 69 @17472 has 1 MA's), (82, 17511), (113, 17580), (115, 17589), (116, 17592), (123, 17610), (136, 17643), (140, 17658), (155, 17706), (186, 17811), (188, 17817), (189, 17820), (205, 17862), (206, 17865), (221, 17943), (239, 18033), (250, 18078), (256, 18108), (257, 18114), (259, 18132), (267, 18156), (270, 18165), (284, 18198), (286, 18204), (293, 18234), (305, 18273), (308, 18285), (311, 18294), (315, 18309), (317, 18312), (342, 18423), (343, 18426), (344, 18435), (345, 18441), (348, 18456), (349, 18459), (354, 18480), (363, 18510), (367, 18522), (372, 18555), (393, 18666), (395, 18669), (404, 18696), (406, 18702), (416, 18756), (417, 18759), (438, 18846), (440, 18861), (443, 18873), (444, 18876), (457, 18942), (462, 18966), (466, 18987), (468, 18996), (482, 19056), (483, 19059), (491, 19095), (494, 19113), (497, 19125), (500, 19134), (509, 19161), (524, 19230), (527, 19248), (529, 19257), (530, 19269), (537, 19305), (542, 19335), (546, 19356), (552, 19380), (558, 19416), (565, 19470), (577, 19530), (585, 19572), (608, 19707), (612, 19731), (618, 19785), (621, 19833), (630, 19875), (633, 19899), (634, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 88
Candidate Starts for Tarkin_28:
(Start: 88 @23273 has 134 MA's), (153, 23450), (158, 23471), (212, 23618), (240, 23759), (249, 23792), (256, 23825), (263, 23861), (293, 23954), (311, 24014), (317, 24032), (346, 24164), (357, 24209), (386, 24341), (393, 24386), (411, 24446), (437, 24560), (440, 24581), (449, 24620), (452, 24641), (454, 24656), (489, 24806), (491, 24812), (494, 24830), (511, 24884), (527, 24968), (545, 25061), (593, 25307), (621, 25523), (634, 25607), (641, 25640),

Gene: Tchotchke_19 Start: 17331, Stop: 19868, Start Num: 46
Candidate Starts for Tchotchke_19:
(Start: 46 @17331 has 244 MA's), (58, 17352), (Start: 69 @17373 has 1 MA's), (82, 17412), (113, 17481), (115, 17490), (116, 17493), (123, 17511), (140, 17559), (186, 17712), (189, 17721), (206, 17766), (225, 17865), (226, 17868), (239, 17934), (256, 18009), (257, 18015), (259, 18033), (267, 18057), (269, 18063), (270, 18066), (284, 18099), (286, 18105), (293, 18135), (301, 18156), (308, 18186), (311, 18195), (315, 18210), (317, 18213), (342, 18324), (343, 18327), (344, 18336), (345, 18342), (348, 18357), (349, 18360), (354, 18381), (363, 18411), (367, 18423), (372, 18456), (393, 18567), (395, 18570), (404, 18597), (406, 18603), (416, 18657), (417, 18660), (440, 18762), (443, 18774), (444, 18777), (457, 18843), (462, 18867), (466, 18888), (468, 18897), (482, 18957), (483, 18960), (491, 18996), (494, 19014), (497, 19026), (500, 19035), (509, 19062), (522, 19119), (524, 19131), (527, 19149), (529, 19158), (530, 19170), (537, 19206), (542, 19236), (545, 19245), (546, 19257), (558, 19317), (565, 19371), (577, 19431), (585, 19473), (608, 19608), (612, 19632), (618, 19686), (621, 19734), (630, 19776), (633, 19800), (634, 19803),

Gene: TeamEdward_26 Start: 22455, Stop: 24851, Start Num: 88
Candidate Starts for TeamEdward_26:
(Start: 88 @22455 has 134 MA's), (153, 22632), (158, 22653), (212, 22800), (240, 22941), (249, 22974), (256, 23007), (263, 23043), (293, 23136), (311, 23196), (317, 23214), (346, 23346), (357, 23391), (386, 23523), (393, 23568), (411, 23628), (437, 23742), (440, 23763), (449, 23802), (452, 23823), (454, 23838), (489, 23988), (491, 23994), (494, 24012), (511, 24066), (527, 24150), (545, 24243), (593, 24489), (621, 24705), (634, 24789), (641, 24822),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 88
Candidate Starts for TeardropMSU_25:
(Start: 88 @22191 has 134 MA's), (153, 22368), (158, 22389), (212, 22536), (240, 22677), (249, 22710), (256, 22743), (263, 22779), (293, 22872), (311, 22932), (317, 22950), (335, 23031), (386, 23259), (393, 23304), (440, 23499), (441, 23505), (444, 23514), (452, 23559), (454, 23574), (491, 23730), (494, 23748), (496, 23757), (512, 23811), (527, 23886), (528, 23889), (564, 24099), (566, 24111), (593, 24225), (621, 24441), (634, 24525), (639, 24549), (641, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 88
Candidate Starts for Teaspoon_27:
(Start: 88 @22237 has 134 MA's), (153, 22414), (158, 22435), (212, 22582), (240, 22723), (249, 22756), (256, 22789), (263, 22825), (293, 22918), (311, 22978), (317, 22996), (346, 23128), (357, 23173), (386, 23305), (393, 23350), (411, 23410), (437, 23524), (440, 23545), (449, 23584), (452, 23605), (454, 23620), (489, 23770), (491, 23776), (494, 23794), (511, 23848), (527, 23932), (545, 24025), (593, 24271), (621, 24487), (634, 24571), (641, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 60
Candidate Starts for TelAviv_55:
(Start: 60 @36063 has 35 MA's), (74, 36096), (100, 36165), (101, 36168), (109, 36192), (116, 36216), (126, 36240), (136, 36273), (193, 36480), (197, 36492), (198, 36495), (231, 36642), (233, 36672), (239, 36696), (250, 36726), (251, 36729), (256, 36756), (259, 36780), (269, 36810), (290, 36867), (294, 36891), (305, 36927), (308, 36939), (315, 36963), (317, 36966), (326, 37008), (348, 37104), (349, 37107), (409, 37362), (440, 37506), (452, 37566), (465, 37638), (466, 37641), (487, 37737), (527, 37911), (530, 37932), (548, 38025), (551, 38037), (565, 38127), (581, 38202), (596, 38247), (626, 38448), (632, 38502), (637, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 88
Candidate Starts for Terminus_26:
(Start: 88 @22371 has 134 MA's), (153, 22548), (158, 22569), (212, 22716), (240, 22857), (249, 22890), (256, 22923), (263, 22959), (293, 23052), (311, 23112), (317, 23130), (346, 23262), (357, 23307), (386, 23439), (393, 23484), (411, 23544), (437, 23658), (440, 23679), (449, 23718), (452, 23739), (454, 23754), (489, 23904), (491, 23910), (494, 23928), (511, 23982), (527, 24066), (545, 24159), (593, 24405), (621, 24621), (634, 24705), (641, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 50
Candidate Starts for ThetaBob_20:
(Start: 50 @17751 has 3 MA's), (54, 17757), (58, 17763), (Start: 88 @17826 has 134 MA's), (89, 17829), (101, 17856), (119, 17910), (123, 17919), (136, 17952), (149, 17985), (155, 18018), (174, 18057), (179, 18072), (189, 18108), (190, 18114), (191, 18117), (204, 18135), (206, 18147), (209, 18159), (214, 18183), (215, 18186), (247, 18330), (250, 18339), (256, 18363), (259, 18387), (267, 18411), (269, 18417), (277, 18438), (278, 18441), (286, 18459), (293, 18489), (303, 18519), (308, 18540), (333, 18633), (335, 18648), (336, 18657), (342, 18678), (343, 18681), (350, 18723), (363, 18765), (364, 18768), (367, 18777), (371, 18804), (373, 18813), (380, 18852), (384, 18873), (386, 18876), (392, 18912), (399, 18933), (416, 19011), (417, 19014), (433, 19068), (443, 19128), (462, 19221), (466, 19242), (475, 19278), (486, 19332), (489, 19341), (507, 19419), (512, 19437), (519, 19473), (520, 19476), (524, 19494), (525, 19497), (527, 19512), (530, 19533), (537, 19569), (539, 19581), (552, 19644), (558, 19677), (569, 19764), (580, 19812), (584, 19836), (590, 19863), (593, 19872), (596, 19911), (604, 19950), (608, 19974), (611, 19995), (621, 20091), (627, 20112), (637, 20175), (641, 20202), (644, 20211),

Gene: Thimble_26 Start: 21237, Stop: 23633, Start Num: 88
Candidate Starts for Thimble_26:
(Start: 88 @21237 has 134 MA's), (153, 21414), (158, 21435), (212, 21582), (240, 21723), (249, 21756), (256, 21789), (263, 21825), (293, 21918), (311, 21978), (317, 21996), (346, 22128), (357, 22173), (386, 22305), (393, 22350), (411, 22410), (437, 22524), (440, 22545), (449, 22584), (452, 22605), (454, 22620), (489, 22770), (491, 22776), (494, 22794), (511, 22848), (527, 22932), (545, 23025), (593, 23271), (621, 23487), (634, 23571), (641, 23604),

Gene: Thoth_30 Start: 24313, Stop: 26583, Start Num: 157
Candidate Starts for Thoth_30:

(Start: 157 @24313 has 22 MA's), (196, 24448), (199, 24457), (233, 24631), (234, 24637), (237, 24649), (273, 24802), (282, 24817), (288, 24832), (382, 25213), (383, 25219), (391, 25264), (412, 25351), (455, 25552), (456, 25558), (466, 25606), (472, 25636), (476, 25660), (515, 25849), (523, 25876), (530, 25924), (544, 25996), (552, 26035), (553, 26056), (556, 26071), (559, 26089), (561, 26119), (578, 26203), (616, 26404), (621, 26446), (647, 26572),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 88
Candidate Starts for Thresher_27:
(Start: 88 @23038 has 134 MA's), (153, 23215), (158, 23236), (212, 23383), (249, 23557), (256, 23590), (263, 23626), (293, 23719), (311, 23779), (317, 23797), (346, 23929), (357, 23974), (386, 24106), (393, 24151), (437, 24325), (440, 24346), (449, 24385), (452, 24406), (454, 24421), (489, 24571), (491, 24577), (494, 24595), (511, 24649), (527, 24733), (545, 24826), (593, 25072), (621, 25288), (634, 25372), (641, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 16
Candidate Starts for Thumb_29:
(Start: 16 @25682 has 10 MA's), (25, 25814), (26, 25826), (28, 25835), (42, 25904), (72, 25970), (78, 25991), (96, 26039), (111, 26081), (118, 26105), (131, 26138), (142, 26174), (148, 26186), (173, 26279), (189, 26336), (201, 26375), (240, 26570), (248, 26600), (257, 26642), (301, 26783), (305, 26801), (326, 26882), (335, 26921), (340, 26942), (372, 27080), (379, 27119), (417, 27284), (435, 27356), (443, 27398), (446, 27410), (465, 27509), (543, 27872), (594, 28142), (595, 28175), (600, 28199), (617, 28319), (628, 28397), (641, 28484), (646, 28499), (648, 28505),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 88
Candidate Starts for Tomaszewski_25:
(Start: 88 @21884 has 134 MA's), (153, 22061), (158, 22082), (212, 22229), (240, 22370), (249, 22403), (256, 22436), (263, 22472), (293, 22565), (311, 22625), (317, 22643), (346, 22775), (357, 22820), (386, 22952), (393, 22997), (437, 23171), (440, 23192), (449, 23231), (452, 23252), (454, 23267), (491, 23423), (494, 23441), (511, 23495), (527, 23579), (545, 23672), (593, 23918), (621, 24134), (634, 24218), (641, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 46
Candidate Starts for TootsiePop_19:
(Start: 46 @17273 has 244 MA's), (58, 17294), (Start: 69 @17315 has 1 MA's), (82, 17354), (113, 17423), (115, 17432), (116, 17435), (123, 17453), (136, 17486), (140, 17501), (155, 17549), (188, 17660), (189, 17663), (206, 17708), (221, 17786), (226, 17810), (239, 17876), (250, 17921), (256, 17951), (257, 17957), (259, 17975), (267, 17999), (270, 18008), (284, 18041), (286, 18047), (293, 18077), (305, 18116), (308, 18128), (311, 18137), (315, 18152), (317, 18155), (349, 18302), (363, 18353), (385, 18464), (395, 18515), (403, 18539), (425, 18632), (435, 18677), (437, 18686), (440, 18707), (443, 18719), (444, 18722), (452, 18767), (462, 18812), (465, 18830), (466, 18833), (478, 18884), (489, 18935), (491, 18941), (494, 18959), (497, 18971), (500, 18980), (511, 19013), (527, 19094), (539, 19163), (545, 19190), (549, 19217), (559, 19268), (565, 19316), (611, 19559), (621, 19664), (627, 19685), (636, 19739), (640, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 46
Candidate Starts for Tootsieroll_19:
(40, 17227), (Start: 46 @17239 has 244 MA's), (58, 17260), (Start: 69 @17281 has 1 MA's), (82, 17320), (113, 17389), (115, 17398), (116, 17401), (123, 17419), (136, 17452), (140, 17467), (155, 17515), (186, 17620), (188, 17626), (189, 17629), (205, 17671), (206, 17674), (226, 17776), (239, 17842), (250, 17887), (256, 17917), (257, 17923), (259, 17941), (267, 17965), (270, 17974), (284, 18007), (286, 18013), (293, 18043), (308, 18094), (311, 18103), (336, 18211), (340, 18223), (342, 18232), (343, 18235), (345, 18250), (348, 18265), (349, 18268), (354, 18289), (363, 18319), (367, 18331), (372, 18364), (393, 18475), (395, 18478), (404, 18505), (406, 18511), (416, 18565), (417,

18568), (425, 18595), (440, 18670), (443, 18682), (444, 18685), (457, 18751), (461, 18772), (462, 18775), (466, 18796), (468, 18805), (482, 18865), (483, 18868), (489, 18898), (494, 18922), (497, 18934), (500, 18943), (524, 19039), (527, 19057), (529, 19066), (530, 19078), (542, 19144), (545, 19153), (546, 19165), (552, 19189), (558, 19225), (585, 19381), (608, 19516), (612, 19540), (618, 19594), (627, 19663), (633, 19708), (634, 19711),

Gene: Topiatin_20 Start: 18098, Stop: 20635, Start Num: 46
Candidate Starts for Topiatin_20:
(40, 18086), (Start: 46 @18098 has 244 MA's), (58, 18119), (Start: 69 @18140 has 1 MA's), (82, 18179), (113, 18248), (115, 18257), (116, 18260), (123, 18278), (136, 18311), (140, 18326), (155, 18374), (188, 18485), (189, 18488), (202, 18518), (206, 18533), (221, 18611), (226, 18635), (239, 18701), (250, 18746), (256, 18776), (257, 18782), (259, 18800), (267, 18824), (270, 18833), (284, 18866), (286, 18872), (293, 18902), (305, 18941), (308, 18953), (311, 18962), (315, 18977), (317, 18980), (342, 19091), (343, 19094), (344, 19103), (345, 19109), (348, 19124), (349, 19127), (354, 19148), (363, 19178), (367, 19190), (372, 19223), (393, 19334), (395, 19337), (404, 19364), (406, 19370), (416, 19424), (417, 19427), (438, 19514), (440, 19529), (443, 19541), (444, 19544), (457, 19610), (462, 19634), (466, 19655), (468, 19664), (478, 19706), (482, 19724), (483, 19727), (491, 19763), (494, 19781), (497, 19793), (500, 19802), (509, 19829), (524, 19898), (527, 19916), (529, 19925), (530, 19937), (537, 19973), (542, 20003), (546, 20024), (552, 20048), (558, 20084), (565, 20138), (577, 20198), (585, 20240), (597, 20318), (608, 20375), (612, 20399), (618, 20453), (621, 20501), (630, 20543), (633, 20567), (634, 20570),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 105
Candidate Starts for Toron_20:
(105, 17872), (108, 17878), (112, 17884), (135, 17947), (145, 17971), (147, 17974), (162, 18037), (195, 18145), (200, 18154), (206, 18175), (208, 18184), (225, 18274), (233, 18319), (247, 18379), (270, 18475), (291, 18532), (299, 18556), (313, 18604), (315, 18613), (317, 18616), (328, 18664), (336, 18706), (343, 18730), (344, 18739), (345, 18745), (349, 18763), (354, 18784), (358, 18796), (363, 18814), (367, 18826), (372, 18859), (384, 18922), (386, 18925), (388, 18940), (390, 18952), (416, 19060), (422, 19084), (431, 19111), (433, 19117), (440, 19165), (446, 19189), (452, 19225), (453, 19231), (454, 19240), (478, 19354), (479, 19369), (497, 19447), (525, 19558), (527, 19573), (529, 19582), (545, 19669), (552, 19705), (558, 19741), (565, 19795), (608, 20032), (612, 20056), (627, 20179), (633, 20224), (640, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 46
Candidate Starts for Totinger_19:
(Start: 46 @17189 has 244 MA's), (58, 17210), (Start: 69 @17231 has 1 MA's), (82, 17270), (113, 17339), (115, 17348), (116, 17351), (123, 17369), (140, 17417), (186, 17570), (189, 17579), (206, 17624), (225, 17723), (226, 17726), (239, 17792), (256, 17867), (257, 17873), (259, 17891), (267, 17915), (269, 17921), (270, 17924), (284, 17957), (286, 17963), (293, 17993), (301, 18014), (308, 18044), (311, 18053), (315, 18068), (317, 18071), (342, 18182), (343, 18185), (344, 18194), (345, 18200), (348, 18215), (349, 18218), (354, 18239), (363, 18269), (367, 18281), (372, 18314), (393, 18425), (395, 18428), (404, 18455), (406, 18461), (416, 18515), (417, 18518), (440, 18620), (443, 18632), (444, 18635), (457, 18701), (462, 18725), (466, 18746), (468, 18755), (482, 18815), (483, 18818), (491, 18854), (494, 18872), (497, 18884), (500, 18893), (509, 18920), (522, 18977), (524, 18989), (527, 19007), (529, 19016), (530, 19028), (537, 19064), (542, 19094), (545, 19103), (546, 19115), (558, 19175), (565, 19229), (577, 19289), (585, 19331), (608, 19466), (612, 19490), (618, 19544), (621, 19592), (630, 19634), (633, 19658), (634, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 88
Candidate Starts for Toto_26:
(Start: 88 @22284 has 134 MA's), (153, 22461), (158, 22482), (212, 22629), (240, 22770), (249, 22803), (256, 22836), (263, 22872), (293, 22965), (311, 23025), (317, 23043), (350, 23199), (357,

23220), (382, 23340), (386, 23352), (393, 23397), (440, 23592), (444, 23607), (452, 23652), (454, 23667), (491, 23823), (494, 23841), (496, 23850), (527, 23979), (528, 23982), (564, 24192), (566, 24204), (593, 24318), (621, 24534), (634, 24618), (639, 24642), (641, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 88
Candidate Starts for Traaww1_24:
(Start: 88 @21929 has 134 MA's), (153, 22106), (158, 22127), (212, 22274), (240, 22415), (249, 22448), (256, 22481), (263, 22517), (293, 22610), (311, 22670), (317, 22688), (335, 22769), (386, 22997), (393, 23042), (440, 23237), (441, 23243), (444, 23252), (452, 23297), (454, 23312), (491, 23468), (494, 23486), (496, 23495), (512, 23549), (527, 23624), (528, 23627), (564, 23837), (566, 23849), (593, 23963), (621, 24179), (634, 24263), (639, 24287), (641, 24296),

Gene: Troll4_30 Start: 24317, Stop: 26587, Start Num: 157
Candidate Starts for Troll4_30:
(Start: 157 @24317 has 22 MA's), (196, 24452), (199, 24461), (233, 24635), (234, 24641), (237, 24653), (273, 24806), (282, 24821), (288, 24836), (382, 25217), (383, 25223), (391, 25268), (412, 25355), (455, 25556), (456, 25562), (466, 25610), (472, 25640), (476, 25664), (515, 25853), (523, 25880), (530, 25928), (544, 26000), (552, 26039), (553, 26060), (556, 26075), (559, 26093), (561, 26123), (578, 26207), (616, 26408), (621, 26450), (647, 26576),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 88
Candidate Starts for Tuco_27:
(Start: 88 @22799 has 134 MA's), (153, 22976), (158, 22997), (212, 23144), (240, 23285), (249, 23318), (256, 23351), (263, 23387), (293, 23480), (311, 23540), (317, 23558), (335, 23639), (386, 23867), (393, 23912), (440, 24107), (441, 24113), (444, 24122), (452, 24167), (454, 24182), (491, 24338), (494, 24356), (496, 24365), (512, 24419), (527, 24494), (528, 24497), (564, 24707), (566, 24719), (593, 24833), (621, 25049), (634, 25133), (639, 25157), (641, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 46
Candidate Starts for Tweety_18:
(40, 17439), (Start: 46 @17451 has 244 MA's), (58, 17472), (Start: 69 @17493 has 1 MA's), (82, 17532), (113, 17601), (115, 17610), (116, 17613), (123, 17631), (136, 17664), (140, 17679), (155, 17727), (188, 17838), (189, 17841), (202, 17871), (206, 17886), (221, 17964), (226, 17988), (239, 18054), (250, 18099), (256, 18129), (257, 18135), (259, 18153), (267, 18177), (270, 18186), (284, 18219), (286, 18225), (293, 18255), (305, 18294), (308, 18306), (311, 18315), (315, 18330), (317, 18333), (342, 18444), (343, 18447), (344, 18456), (345, 18462), (348, 18477), (349, 18480), (354, 18501), (363, 18531), (367, 18543), (372, 18576), (386, 18642), (393, 18687), (395, 18690), (404, 18717), (406, 18723), (416, 18777), (417, 18780), (438, 18867), (440, 18882), (443, 18894), (444, 18897), (457, 18963), (462, 18987), (466, 19008), (468, 19017), (478, 19059), (482, 19077), (483, 19080), (491, 19116), (494, 19134), (497, 19146), (500, 19155), (509, 19182), (524, 19251), (527, 19269), (529, 19278), (530, 19290), (537, 19326), (542, 19356), (546, 19377), (552, 19401), (558, 19437), (565, 19491), (577, 19551), (585, 19593), (608, 19728), (612, 19752), (618, 19806), (621, 19854), (630, 19896), (633, 19920), (634, 19923),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 88
Candidate Starts for Ukulele_26:
(Start: 88 @22042 has 134 MA's), (153, 22219), (158, 22240), (212, 22387), (249, 22561), (256, 22594), (263, 22630), (293, 22723), (311, 22783), (317, 22801), (346, 22933), (357, 22978), (386, 23110), (393, 23155), (411, 23215), (437, 23329), (440, 23350), (449, 23389), (452, 23410), (454, 23425), (489, 23575), (491, 23581), (494, 23599), (511, 23653), (527, 23737), (545, 23830), (593, 24076), (621, 24292), (634, 24376), (641, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 46

Candidate Starts for UncleRicky_19:
(40, 17207), (Start: 46 @17219 has 244 MA's), (58, 17240), (Start: 69 @17261 has 1 MA's), (82, 17300), (113, 17369), (115, 17378), (116, 17381), (123, 17399), (136, 17432), (140, 17447), (155, 17495), (186, 17600), (189, 17609), (205, 17651), (206, 17654), (221, 17732), (226, 17756), (239, 17822), (250, 17867), (256, 17897), (257, 17903), (259, 17921), (267, 17945), (270, 17954), (284, 17987), (286, 17993), (293, 18023), (305, 18062), (308, 18074), (311, 18083), (315, 18098), (317, 18101), (342, 18212), (344, 18224), (345, 18230), (348, 18245), (349, 18248), (354, 18269), (363, 18299), (367, 18311), (372, 18344), (386, 18410), (393, 18455), (395, 18458), (404, 18485), (406, 18491), (416, 18545), (417, 18548), (425, 18575), (440, 18650), (443, 18662), (444, 18665), (457, 18731), (462, 18755), (468, 18785), (478, 18827), (482, 18845), (483, 18848), (491, 18884), (494, 18902), (500, 18923), (509, 18950), (524, 19019), (527, 19037), (529, 19046), (530, 19058), (537, 19094), (542, 19124), (545, 19133), (546, 19145), (558, 19205), (565, 19259), (577, 19319), (585, 19361), (597, 19439), (608, 19496), (612, 19520), (618, 19574), (621, 19622), (630, 19664), (633, 19688), (634, 19691),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 46
Candidate Starts for VRedHorse_18:
(40, 17552), (Start: 46 @17564 has 244 MA's), (58, 17585), (Start: 69 @17606 has 1 MA's), (81, 17642), (82, 17645), (113, 17714), (115, 17723), (116, 17726), (123, 17744), (136, 17777), (140, 17792), (155, 17840), (186, 17945), (188, 17951), (189, 17954), (205, 17996), (206, 17999), (226, 18101), (239, 18167), (250, 18212), (256, 18242), (257, 18248), (259, 18266), (267, 18290), (270, 18299), (284, 18332), (286, 18338), (301, 18389), (305, 18407), (308, 18419), (311, 18428), (315, 18443), (318, 18449), (342, 18557), (344, 18569), (345, 18575), (348, 18590), (349, 18593), (354, 18614), (363, 18644), (367, 18656), (372, 18689), (386, 18755), (393, 18800), (395, 18803), (404, 18830), (406, 18836), (416, 18890), (417, 18893), (440, 18995), (443, 19007), (444, 19010), (457, 19076), (462, 19100), (466, 19121), (468, 19130), (482, 19190), (483, 19193), (491, 19229), (494, 19247), (500, 19268), (509, 19295), (524, 19364), (527, 19382), (529, 19391), (530, 19403), (537, 19439), (546, 19490), (550, 19508), (558, 19550), (565, 19604), (585, 19706), (597, 19784), (608, 19841), (612, 19865), (618, 19919), (621, 19967), (633, 20033), (634, 20036),

Gene: Vagabond_58 Start: 35926, Stop: 38436, Start Num: 60
Candidate Starts for Vagabond_58:
(Start: 60 @35926 has 35 MA's), (74, 35959), (100, 36028), (101, 36031), (109, 36055), (116, 36079), (126, 36103), (136, 36136), (193, 36343), (197, 36355), (198, 36358), (231, 36505), (233, 36535), (239, 36559), (250, 36589), (251, 36592), (256, 36619), (259, 36643), (269, 36673), (290, 36730), (294, 36754), (305, 36790), (308, 36802), (315, 36826), (317, 36829), (326, 36871), (348, 36967), (349, 36970), (409, 37225), (440, 37369), (452, 37429), (465, 37501), (466, 37504), (487, 37600), (527, 37774), (530, 37795), (548, 37888), (551, 37900), (565, 37990), (581, 38065), (596, 38110), (626, 38311), (632, 38365), (637, 38380),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 46
Candidate Starts for Veteran_18:
(Start: 46 @17402 has 244 MA's), (58, 17423), (Start: 69 @17444 has 1 MA's), (82, 17483), (113, 17552), (115, 17561), (116, 17564), (123, 17582), (136, 17615), (140, 17630), (186, 17783), (189, 17792), (206, 17837), (225, 17936), (226, 17939), (239, 18005), (256, 18080), (257, 18086), (267, 18128), (269, 18134), (270, 18137), (284, 18170), (286, 18176), (293, 18206), (301, 18227), (308, 18257), (311, 18266), (315, 18281), (317, 18284), (342, 18395), (343, 18398), (344, 18407), (345, 18413), (348, 18428), (349, 18431), (354, 18452), (363, 18482), (367, 18494), (372, 18527), (393, 18638), (395, 18641), (404, 18668), (406, 18674), (416, 18728), (417, 18731), (438, 18818), (440, 18833), (443, 18845), (444, 18848), (457, 18914), (462, 18938), (466, 18959), (468, 18968), (478, 19010), (482, 19028), (483, 19031), (489, 19061), (494, 19085), (497, 19097), (500, 19106), (524, 19202), (527, 19220), (529, 19229), (530, 19241), (537, 19277), (542, 19307), (545, 19316), (546, 19328), (558, 19388), (565, 19442), (577, 19502), (585, 19544), (608, 19679), (612, 19703), (618,

19757), (621, 19805), (630, 19847), (633, 19871), (634, 19874),

Gene: Violac_19 Start: 17946, Stop: 20471, Start Num: 46
Candidate Starts for Violac_19:
(Start: 46 @17946 has 244 MA's), (58, 17967), (66, 17988), (83, 18027), (113, 18096), (115, 18105), (116, 18108), (123, 18126), (140, 18174), (155, 18222), (188, 18333), (189, 18336), (203, 18369), (206, 18381), (221, 18459), (233, 18525), (240, 18558), (253, 18612), (256, 18624), (267, 18672), (269, 18678), (270, 18681), (272, 18690), (287, 18723), (299, 18762), (301, 18765), (304, 18780), (305, 18783), (313, 18810), (314, 18816), (315, 18819), (317, 18822), (323, 18849), (327, 18867), (328, 18870), (344, 18945), (348, 18966), (349, 18969), (356, 18996), (363, 19020), (372, 19065), (373, 19068), (382, 19119), (395, 19182), (399, 19191), (405, 19215), (431, 19320), (432, 19323), (440, 19374), (441, 19380), (443, 19386), (444, 19389), (452, 19434), (454, 19449), (461, 19476), (466, 19500), (468, 19509), (482, 19569), (483, 19572), (484, 19584), (494, 19626), (497, 19638), (527, 19761), (538, 19824), (550, 19887), (560, 19962), (599, 20163), (621, 20334), (629, 20373), (636, 20412), (637, 20415),

Gene: Visconti_30 Start: 24326, Stop: 26596, Start Num: 157
Candidate Starts for Visconti_30:
(Start: 157 @24326 has 22 MA's), (196, 24461), (199, 24470), (233, 24644), (234, 24650), (237, 24662), (273, 24815), (282, 24830), (288, 24845), (382, 25226), (383, 25232), (391, 25277), (412, 25364), (455, 25565), (456, 25571), (466, 25619), (472, 25649), (476, 25673), (515, 25862), (523, 25889), (530, 25937), (544, 26009), (552, 26048), (553, 26069), (556, 26084), (559, 26102), (561, 26132), (578, 26216), (616, 26417), (621, 26459), (647, 26585),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 46
Candidate Starts for Vivum_18:
(Start: 46 @17344 has 244 MA's), (58, 17365), (Start: 69 @17386 has 1 MA's), (82, 17425), (113, 17494), (115, 17503), (116, 17506), (123, 17524), (140, 17572), (186, 17725), (189, 17734), (206, 17779), (225, 17878), (226, 17881), (239, 17947), (256, 18022), (257, 18028), (259, 18046), (267, 18070), (269, 18076), (270, 18079), (284, 18112), (286, 18118), (293, 18148), (301, 18169), (308, 18199), (311, 18208), (315, 18223), (317, 18226), (342, 18337), (343, 18340), (344, 18349), (345, 18355), (348, 18370), (349, 18373), (354, 18394), (363, 18424), (367, 18436), (372, 18469), (393, 18580), (395, 18583), (404, 18610), (406, 18616), (416, 18670), (417, 18673), (440, 18775), (443, 18787), (444, 18790), (457, 18856), (462, 18880), (466, 18901), (468, 18910), (482, 18970), (483, 18973), (491, 19009), (494, 19027), (497, 19039), (500, 19048), (509, 19075), (522, 19132), (524, 19144), (527, 19162), (529, 19171), (530, 19183), (537, 19219), (542, 19249), (545, 19258), (546, 19270), (558, 19330), (565, 19384), (577, 19444), (585, 19486), (608, 19621), (612, 19645), (618, 19699), (621, 19747), (630, 19789), (633, 19813), (634, 19816),

Gene: Vorrps_58 Start: 36138, Stop: 38648, Start Num: 60
Candidate Starts for Vorrps_58:
(Start: 60 @36138 has 35 MA's), (74, 36171), (100, 36240), (101, 36243), (109, 36267), (116, 36291), (126, 36315), (136, 36348), (193, 36555), (197, 36567), (198, 36570), (231, 36717), (233, 36747), (239, 36771), (250, 36801), (251, 36804), (256, 36831), (259, 36855), (269, 36885), (290, 36942), (294, 36966), (305, 37002), (308, 37014), (315, 37038), (317, 37041), (326, 37083), (348, 37179), (349, 37182), (409, 37437), (440, 37581), (452, 37641), (465, 37713), (466, 37716), (487, 37812), (527, 37986), (530, 38007), (548, 38100), (551, 38112), (565, 38202), (581, 38277), (596, 38322), (626, 38523), (632, 38577), (637, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 46
Candidate Starts for Wachhund_18:
(Start: 46 @17422 has 244 MA's), (58, 17443), (Start: 69 @17464 has 1 MA's), (82, 17503), (113, 17572), (115, 17581), (116, 17584), (123, 17602), (140, 17650), (188, 17809), (189, 17812), (206,

17857), (221, 17935), (225, 17956), (226, 17959), (239, 18025), (256, 18100), (257, 18106), (267, 18148), (269, 18154), (270, 18157), (284, 18190), (286, 18196), (293, 18226), (301, 18247), (308, 18277), (311, 18286), (336, 18394), (342, 18415), (343, 18418), (344, 18427), (345, 18433), (348, 18448), (349, 18451), (354, 18472), (363, 18502), (367, 18514), (372, 18547), (393, 18658), (395, 18661), (404, 18688), (406, 18694), (416, 18748), (417, 18751), (438, 18838), (440, 18853), (443, 18865), (444, 18868), (457, 18934), (466, 18979), (468, 18988), (482, 19048), (483, 19051), (491, 19087), (494, 19105), (497, 19117), (500, 19126), (509, 19153), (524, 19222), (527, 19240), (529, 19249), (530, 19261), (537, 19297), (542, 19327), (546, 19348), (552, 19372), (558, 19408), (565, 19462), (577, 19522), (585, 19564), (608, 19699), (612, 19723), (618, 19777), (621, 19825), (630, 19867), (633, 19891), (634, 19894),

Gene: WaldoWhy_31 Start: 24322, Stop: 26592, Start Num: 157
Candidate Starts for WaldoWhy_31:
(Start: 157 @24322 has 22 MA's), (196, 24457), (199, 24466), (233, 24640), (234, 24646), (237, 24658), (273, 24811), (282, 24826), (288, 24841), (382, 25222), (383, 25228), (391, 25273), (412, 25360), (455, 25561), (456, 25567), (466, 25615), (472, 25645), (476, 25669), (515, 25858), (523, 25885), (530, 25933), (544, 26005), (552, 26044), (553, 26065), (556, 26080), (559, 26098), (561, 26128), (578, 26212), (616, 26413), (621, 26455), (647, 26581),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 46
Candidate Starts for Wanda_39:
(Start: 46 @29807 has 244 MA's), (123, 30002), (136, 30038), (140, 30053), (155, 30101), (188, 30212), (189, 30215), (202, 30245), (206, 30260), (221, 30338), (226, 30362), (239, 30428), (250, 30473), (256, 30503), (257, 30509), (259, 30527), (267, 30551), (270, 30560), (284, 30593), (286, 30599), (293, 30629), (305, 30668), (308, 30680), (311, 30689), (315, 30704), (317, 30707), (342, 30818), (343, 30821), (344, 30830), (345, 30836), (348, 30851), (349, 30854), (354, 30875), (363, 30905), (367, 30917), (372, 30950), (386, 31016), (393, 31061), (395, 31064), (404, 31091), (406, 31097), (416, 31151), (417, 31154), (438, 31241), (440, 31256), (443, 31268), (444, 31271), (457, 31337), (466, 31382), (468, 31391), (482, 31451), (483, 31454), (491, 31490), (494, 31508), (497, 31520), (500, 31529), (509, 31556), (524, 31625), (527, 31643), (529, 31652), (530, 31664), (537, 31700), (542, 31730), (546, 31751), (552, 31775), (558, 31811), (565, 31865), (577, 31925), (585, 31967), (608, 32102), (612, 32126), (618, 32180), (621, 32228), (630, 32270), (633, 32294), (634, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 46
Candidate Starts for Wee_19:
(40, 17959), (Start: 46 @17971 has 244 MA's), (58, 17992), (Start: 69 @18013 has 1 MA's), (82, 18052), (113, 18121), (115, 18130), (116, 18133), (123, 18151), (136, 18184), (140, 18199), (155, 18247), (186, 18352), (188, 18358), (189, 18361), (205, 18403), (206, 18406), (221, 18484), (239, 18574), (250, 18619), (256, 18649), (257, 18655), (259, 18673), (267, 18697), (270, 18706), (284, 18739), (286, 18745), (293, 18775), (305, 18814), (308, 18826), (311, 18835), (315, 18850), (317, 18853), (342, 18964), (343, 18967), (344, 18976), (345, 18982), (348, 18997), (349, 19000), (354, 19021), (363, 19051), (367, 19063), (372, 19096), (386, 19162), (393, 19207), (395, 19210), (404, 19237), (406, 19243), (416, 19297), (417, 19300), (438, 19387), (440, 19402), (443, 19414), (444, 19417), (457, 19483), (466, 19528), (468, 19537), (482, 19597), (483, 19600), (491, 19636), (494, 19654), (497, 19666), (500, 19675), (509, 19702), (524, 19771), (527, 19789), (529, 19798), (530, 19810), (537, 19846), (542, 19876), (546, 19897), (552, 19921), (558, 19957), (565, 20011), (577, 20071), (585, 20113), (608, 20248), (612, 20272), (618, 20326), (621, 20374), (630, 20416), (633, 20440), (634, 20443),

Gene: Weirdo19_22 Start: 19521, Stop: 21416, Start Num: 242
Candidate Starts for Weirdo19_22:

(241, 19515), (242, 19521), (268, 19635), (271, 19647), (309, 19758), (316, 19779), (322, 19800), (325, 19818), (364, 19962), (366, 19971), (368, 19986), (383, 20070), (408, 20175), (420, 20232), (423, 20247), (426, 20256), (427, 20259), (429, 20265), (445, 20337), (449, 20361), (451, 20376), (473, 20490), (476, 20511), (496, 20616), (510, 20667), (512, 20679), (518, 20703), (540, 20808), (544, 20829), (557, 20898), (566, 20964), (570, 20988), (619, 21234), (627, 21297), (636, 21357), (641, 21387), (643, 21393), (647, 21405),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 46
Candidate Starts for Whatsapiecost_18:
(40, 17435), (Start: 46 @17447 has 244 MA's), (58, 17468), (Start: 69 @17489 has 1 MA's), (82, 17528), (113, 17597), (115, 17606), (116, 17609), (123, 17627), (136, 17660), (140, 17675), (155, 17723), (188, 17834), (189, 17837), (202, 17867), (205, 17879), (206, 17882), (221, 17960), (226, 17984), (239, 18050), (250, 18095), (256, 18125), (257, 18131), (259, 18149), (267, 18173), (270, 18182), (284, 18215), (286, 18221), (293, 18251), (305, 18290), (308, 18302), (311, 18311), (315, 18326), (317, 18329), (342, 18440), (343, 18443), (344, 18452), (345, 18458), (348, 18473), (349, 18476), (354, 18497), (363, 18527), (367, 18539), (372, 18572), (393, 18683), (395, 18686), (404, 18713), (406, 18719), (416, 18773), (417, 18776), (440, 18878), (443, 18890), (444, 18893), (457, 18959), (462, 18983), (466, 19004), (468, 19013), (482, 19073), (483, 19076), (491, 19112), (494, 19130), (497, 19142), (500, 19151), (509, 19178), (524, 19247), (527, 19265), (529, 19274), (530, 19286), (537, 19322), (542, 19352), (546, 19373), (552, 19397), (558, 19433), (565, 19487), (577, 19547), (585, 19589), (597, 19667), (608, 19724), (612, 19748), (618, 19802), (621, 19850), (630, 19892), (633, 19916), (634, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 46
Candidate Starts for Whouxphf_18:
(Start: 46 @17504 has 244 MA's), (58, 17525), (Start: 69 @17546 has 1 MA's), (82, 17585), (113, 17654), (115, 17663), (116, 17666), (123, 17684), (140, 17732), (188, 17891), (189, 17894), (206, 17939), (225, 18038), (226, 18041), (256, 18182), (257, 18188), (267, 18230), (269, 18236), (270, 18239), (284, 18272), (286, 18278), (293, 18308), (301, 18329), (308, 18359), (311, 18368), (336, 18476), (340, 18488), (342, 18497), (343, 18500), (344, 18509), (345, 18515), (348, 18530), (349, 18533), (354, 18554), (367, 18596), (372, 18629), (404, 18770), (406, 18776), (416, 18830), (417, 18833), (425, 18860), (440, 18935), (443, 18947), (444, 18950), (457, 19016), (462, 19040), (466, 19061), (468, 19070), (478, 19112), (482, 19130), (483, 19133), (489, 19163), (494, 19187), (500, 19208), (524, 19304), (527, 19322), (529, 19331), (530, 19343), (537, 19379), (542, 19409), (545, 19418), (546, 19430), (558, 19490), (585, 19646), (597, 19724), (608, 19781), (612, 19805), (618, 19859), (621, 19907), (627, 19928), (633, 19973), (634, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 88
Candidate Starts for Wiggin_29:
(Start: 88 @22788 has 134 MA's), (153, 22965), (158, 22986), (212, 23133), (249, 23307), (256, 23340), (263, 23376), (293, 23469), (311, 23529), (317, 23547), (346, 23679), (357, 23724), (386, 23856), (393, 23901), (411, 23961), (437, 24075), (440, 24096), (449, 24135), (452, 24156), (454, 24171), (489, 24321), (491, 24327), (494, 24345), (511, 24399), (527, 24483), (545, 24576), (593, 24822), (621, 25038), (634, 25122), (641, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 47
Candidate Starts for Wildcat_43:
(Start: 47 @28342 has 6 MA's), (75, 28411), (119, 28534), (122, 28540), (123, 28543), (132, 28567), (139, 28588), (186, 28744), (187, 28750), (189, 28756), (198, 28786), (200, 28792), (206, 28813), (208, 28822), (219, 28882), (234, 28960), (257, 29059), (264, 29092), (269, 29107), (270, 29110), (286, 29149), (301, 29200), (305, 29218), (311, 29239), (313, 29245), (321, 29272), (326, 29299), (342, 29368), (347, 29392), (350, 29413), (357, 29434), (361, 29443), (367, 29464), (372, 29497), (373, 29500), (382, 29551), (386, 29563), (401, 29629), (407, 29647), (413, 29686), (440, 29803),

(450, 29848), (461, 29905), (466, 29929), (468, 29938), (472, 29956), (482, 30001), (489, 30034), (495, 30070), (536, 30244), (537, 30262), (538, 30268), (549, 30325), (607, 30649), (610, 30667), (615, 30718), (623, 30781), (633, 30856),

Gene: Wildflower_58 Start: 35650, Stop: 38160, Start Num: 60
Candidate Starts for Wildflower_58:
(Start: 60 @35650 has 35 MA's), (74, 35683), (100, 35752), (101, 35755), (109, 35779), (116, 35803), (126, 35827), (136, 35860), (193, 36067), (197, 36079), (198, 36082), (231, 36229), (233, 36259), (239, 36283), (250, 36313), (251, 36316), (256, 36343), (259, 36367), (269, 36397), (290, 36454), (305, 36514), (308, 36526), (315, 36550), (317, 36553), (326, 36595), (348, 36691), (349, 36694), (409, 36949), (440, 37093), (452, 37153), (465, 37225), (466, 37228), (487, 37324), (527, 37498), (530, 37519), (548, 37612), (551, 37624), (565, 37714), (581, 37789), (596, 37834), (626, 38035), (632, 38089), (637, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 46
Candidate Starts for WillSterrel_19:
(Start: 46 @18757 has 244 MA's), (58, 18778), (Start: 69 @18799 has 1 MA's), (82, 18838), (113, 18907), (115, 18916), (116, 18919), (123, 18937), (140, 18985), (186, 19138), (189, 19147), (206, 19192), (225, 19291), (226, 19294), (239, 19360), (256, 19435), (257, 19441), (259, 19459), (267, 19483), (269, 19489), (270, 19492), (284, 19525), (286, 19531), (293, 19561), (301, 19582), (308, 19612), (311, 19621), (315, 19636), (317, 19639), (342, 19750), (343, 19753), (344, 19762), (345, 19768), (348, 19783), (349, 19786), (354, 19807), (363, 19837), (367, 19849), (372, 19882), (393, 19993), (395, 19996), (404, 20023), (406, 20029), (416, 20083), (417, 20086), (438, 20173), (440, 20188), (443, 20200), (444, 20203), (457, 20269), (462, 20293), (466, 20314), (468, 20323), (482, 20383), (483, 20386), (491, 20422), (494, 20440), (497, 20452), (500, 20461), (509, 20488), (522, 20545), (524, 20557), (527, 20575), (529, 20584), (530, 20596), (537, 20632), (542, 20662), (545, 20671), (546, 20683), (558, 20743), (565, 20797), (577, 20857), (585, 20899), (608, 21034), (612, 21058), (618, 21112), (621, 21160), (630, 21202), (633, 21226), (634, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 88
Candidate Starts for Willez_25:
(Start: 88 @21788 has 134 MA's), (153, 21965), (158, 21986), (212, 22133), (240, 22274), (249, 22307), (256, 22340), (263, 22376), (293, 22469), (311, 22529), (317, 22547), (346, 22679), (357, 22724), (386, 22856), (393, 22901), (411, 22961), (437, 23075), (440, 23096), (449, 23135), (452, 23156), (454, 23171), (489, 23321), (491, 23327), (494, 23345), (511, 23399), (527, 23483), (545, 23576), (593, 23822), (621, 24038), (634, 24122), (641, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 60
Candidate Starts for Winget_59:
(Start: 60 @36356 has 35 MA's), (74, 36389), (100, 36458), (101, 36461), (109, 36485), (116, 36509), (126, 36533), (136, 36566), (193, 36773), (197, 36785), (198, 36788), (231, 36935), (233, 36965), (239, 36989), (250, 37019), (251, 37022), (256, 37049), (259, 37073), (269, 37103), (290, 37160), (294, 37184), (305, 37220), (308, 37232), (315, 37256), (317, 37259), (326, 37301), (348, 37397), (349, 37400), (409, 37655), (440, 37799), (452, 37859), (465, 37931), (466, 37934), (487, 38030), (527, 38204), (530, 38225), (548, 38318), (551, 38330), (565, 38420), (581, 38495), (596, 38540), (626, 38741), (632, 38795), (637, 38810),

Gene: Wogge42_57 Start: 35797, Stop: 38307, Start Num: 60
Candidate Starts for Wogge42_57:
(Start: 60 @35797 has 35 MA's), (74, 35830), (100, 35899), (101, 35902), (109, 35926), (116, 35950), (126, 35974), (136, 36007), (193, 36214), (197, 36226), (198, 36229), (231, 36376), (233, 36406), (239, 36430), (250, 36460), (251, 36463), (256, 36490), (259, 36514), (269, 36544), (290, 36601), (294, 36625), (305, 36661), (308, 36673), (315, 36697), (317, 36700), (326, 36742), (348, 36838),

(349, 36841), (409, 37096), (440, 37240), (452, 37300), (465, 37372), (466, 37375), (487, 37471), (527, 37645), (530, 37666), (548, 37759), (551, 37771), (565, 37861), (581, 37936), (596, 37981), (626, 38182), (632, 38236), (637, 38251),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 46
Candidate Starts for XFactor_18:
(40, 17391), (Start: 46 @17403 has 244 MA's), (58, 17424), (Start: 69 @17445 has 1 MA's), (82, 17484), (113, 17553), (115, 17562), (116, 17565), (123, 17583), (136, 17616), (140, 17631), (155, 17679), (188, 17790), (189, 17793), (202, 17823), (206, 17838), (221, 17916), (226, 17940), (239, 18006), (250, 18051), (256, 18081), (257, 18087), (259, 18105), (267, 18129), (270, 18138), (284, 18171), (286, 18177), (293, 18207), (305, 18246), (308, 18258), (311, 18267), (315, 18282), (317, 18285), (342, 18396), (343, 18399), (344, 18408), (345, 18414), (348, 18429), (349, 18432), (354, 18453), (363, 18483), (367, 18495), (372, 18528), (393, 18639), (395, 18642), (404, 18669), (406, 18675), (416, 18729), (417, 18732), (440, 18834), (443, 18846), (444, 18849), (457, 18915), (462, 18939), (466, 18960), (468, 18969), (482, 19029), (483, 19032), (491, 19068), (494, 19086), (497, 19098), (500, 19107), (509, 19134), (524, 19203), (527, 19221), (529, 19230), (530, 19242), (537, 19278), (542, 19308), (546, 19329), (552, 19353), (558, 19389), (565, 19443), (577, 19503), (585, 19545), (597, 19623), (608, 19680), (612, 19704), (618, 19758), (621, 19806), (630, 19848), (633, 19872), (634, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 88
Candidate Starts for Xandras_28:
(Start: 88 @22274 has 134 MA's), (153, 22451), (158, 22472), (212, 22619), (249, 22793), (256, 22826), (263, 22862), (293, 22955), (311, 23015), (317, 23033), (346, 23165), (357, 23210), (386, 23342), (393, 23387), (411, 23447), (437, 23561), (440, 23582), (449, 23621), (452, 23642), (454, 23657), (489, 23807), (491, 23813), (494, 23831), (511, 23885), (527, 23969), (545, 24062), (593, 24308), (621, 24524), (634, 24608), (641, 24641),

Gene: YangYin_22 Start: 20852, Stop: 23308, Start Num: 49
Candidate Starts for YangYin_22:
(Start: 49 @20852 has 12 MA's), (110, 20996), (138, 21080), (150, 21110), (162, 21155), (211, 21314), (235, 21431), (296, 21653), (312, 21704), (340, 21821), (355, 21887), (375, 21971), (394, 22085), (416, 22175), (418, 22190), (419, 22196), (421, 22205), (431, 22244), (436, 22271), (438, 22283), (450, 22343), (452, 22358), (475, 22454), (478, 22466), (484, 22505), (519, 22640), (529, 22682), (534, 22709), (550, 22808), (571, 22946), (598, 23102), (619, 23246), (622, 23288),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 88
Candidate Starts for YassJohnny_27:
(Start: 88 @22799 has 134 MA's), (153, 22976), (158, 22997), (212, 23144), (240, 23285), (249, 23318), (256, 23351), (263, 23387), (293, 23480), (311, 23540), (317, 23558), (346, 23690), (357, 23735), (386, 23867), (393, 23912), (437, 24086), (440, 24107), (449, 24146), (452, 24167), (454, 24182), (491, 24338), (494, 24356), (511, 24410), (527, 24494), (545, 24587), (593, 24833), (621, 25049), (634, 25133), (641, 25166),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 46
Candidate Starts for Yorick_18:
(Start: 46 @17404 has 244 MA's), (83, 17485), (113, 17554), (115, 17563), (116, 17566), (123, 17584), (140, 17632), (154, 17677), (188, 17791), (189, 17794), (192, 17806), (203, 17827), (205, 17836), (206, 17839), (215, 17887), (221, 17917), (233, 17983), (240, 18016), (250, 18052), (254, 18076), (269, 18136), (270, 18139), (277, 18157), (299, 18220), (301, 18223), (305, 18241), (311, 18262), (317, 18280), (323, 18307), (328, 18328), (335, 18361), (344, 18403), (345, 18409), (346, 18412), (349, 18427), (356, 18454), (357, 18457), (363, 18478), (367, 18490), (372, 18523), (390, 18616), (416, 18724), (422, 18748), (425, 18754), (430, 18772), (431, 18775), (435, 18799), (440, 18829),

(446, 18853), (452, 18889), (453, 18895), (454, 18904), (461, 18931), (474, 18994), (478, 19018), (479, 19033), (489, 19075), (502, 19126), (525, 19222), (527, 19237), (529, 19246), (533, 19270), (545, 19333), (552, 19369), (606, 19675), (612, 19720), (621, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 32
Candidate Starts for Yoshi_24:
(29, 17083), (Start: 32 @17092 has 7 MA's), (Start: 46 @17152 has 244 MA's), (62, 17185), (64, 17188), (95, 17257), (107, 17287), (174, 17467), (179, 17482), (189, 17518), (190, 17524), (204, 17545), (209, 17569), (214, 17593), (247, 17740), (250, 17749), (256, 17773), (259, 17797), (267, 17821), (269, 17827), (277, 17848), (286, 17869), (293, 17899), (303, 17929), (308, 17950), (333, 18043), (335, 18058), (336, 18067), (342, 18088), (343, 18091), (363, 18175), (364, 18178), (367, 18187), (373, 18223), (380, 18262), (384, 18283), (386, 18286), (392, 18322), (399, 18343), (416, 18421), (417, 18424), (433, 18478), (443, 18538), (460, 18625), (462, 18631), (465, 18649), (466, 18652), (475, 18688), (486, 18742), (489, 18751), (507, 18829), (512, 18847), (519, 18883), (520, 18886), (524, 18904), (525, 18907), (527, 18922), (537, 18979), (539, 18991), (552, 19054), (558, 19087), (569, 19174), (580, 19222), (584, 19246), (590, 19273), (593, 19282), (596, 19321), (604, 19360), (608, 19384), (611, 19405), (621, 19501), (627, 19522), (637, 19585), (641, 19612), (644, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 88
Candidate Starts for Youngblood_26:
(Start: 88 @22452 has 134 MA's), (153, 22629), (158, 22650), (212, 22797), (240, 22938), (249, 22971), (256, 23004), (263, 23040), (293, 23133), (311, 23193), (317, 23211), (346, 23343), (357, 23388), (386, 23520), (393, 23565), (411, 23625), (437, 23739), (440, 23760), (449, 23799), (452, 23820), (454, 23835), (491, 23991), (494, 24009), (511, 24063), (527, 24147), (545, 24240), (593, 24486), (621, 24702), (634, 24786), (641, 24819),

Gene: YoyoKar_56 Start: 35640, Stop: 38150, Start Num: 60
Candidate Starts for YoyoKar_56:
(Start: 60 @35640 has 35 MA's), (74, 35673), (100, 35742), (101, 35745), (109, 35769), (116, 35793), (126, 35817), (136, 35850), (193, 36057), (197, 36069), (198, 36072), (231, 36219), (233, 36249), (239, 36273), (250, 36303), (251, 36306), (256, 36333), (259, 36357), (269, 36387), (290, 36444), (294, 36468), (305, 36504), (308, 36516), (315, 36540), (317, 36543), (326, 36585), (348, 36681), (349, 36684), (409, 36939), (440, 37083), (452, 37143), (465, 37215), (466, 37218), (487, 37314), (527, 37488), (530, 37509), (548, 37602), (551, 37614), (565, 37704), (581, 37779), (596, 37824), (626, 38025), (632, 38079), (637, 38094),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 60
Candidate Starts for YungJamal_63:
(Start: 60 @37548 has 35 MA's), (74, 37581), (100, 37650), (101, 37653), (109, 37677), (116, 37701), (126, 37725), (136, 37758), (193, 37965), (197, 37977), (198, 37980), (231, 38127), (233, 38157), (239, 38181), (250, 38211), (251, 38214), (256, 38241), (259, 38265), (269, 38295), (290, 38352), (305, 38412), (308, 38424), (315, 38448), (317, 38451), (326, 38493), (348, 38589), (349, 38592), (409, 38847), (440, 38991), (452, 39051), (465, 39123), (466, 39126), (487, 39222), (527, 39396), (530, 39417), (548, 39510), (551, 39522), (565, 39612), (581, 39687), (596, 39732), (626, 39933), (632, 39987), (637, 40002),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 60
Candidate Starts for Zakhe101_58:
(Start: 60 @36194 has 35 MA's), (74, 36227), (100, 36296), (101, 36299), (109, 36323), (116, 36347), (126, 36371), (136, 36404), (193, 36611), (197, 36623), (198, 36626), (231, 36773), (233, 36803), (239, 36827), (250, 36857), (251, 36860), (256, 36887), (259, 36911), (269, 36941), (290, 36998), (305, 37058), (308, 37070), (315, 37094), (317, 37097), (326, 37139), (348, 37235), (349, 37238),

(409, 37493), (440, 37637), (452, 37697), (465, 37769), (466, 37772), (487, 37868), (527, 38042), (530, 38063), (548, 38156), (551, 38168), (565, 38258), (581, 38333), (596, 38378), (626, 38579), (632, 38633), (637, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 32
Candidate Starts for Zapner_25:
(29, 17608), (Start: 32 @17617 has 7 MA's), (Start: 46 @17677 has 244 MA's), (64, 17713), (107, 17812), (155, 17953), (174, 17992), (179, 18007), (189, 18043), (190, 18049), (191, 18052), (204, 18070), (209, 18094), (214, 18118), (215, 18121), (247, 18265), (250, 18274), (256, 18298), (259, 18322), (267, 18346), (269, 18352), (277, 18373), (278, 18376), (286, 18394), (293, 18427), (303, 18457), (308, 18478), (333, 18571), (335, 18586), (336, 18595), (342, 18616), (343, 18619), (350, 18661), (363, 18703), (364, 18706), (367, 18715), (371, 18742), (373, 18751), (380, 18790), (384, 18811), (386, 18814), (392, 18850), (399, 18871), (416, 18949), (417, 18952), (433, 19006), (443, 19066), (460, 19153), (462, 19159), (466, 19180), (475, 19216), (486, 19270), (489, 19279), (507, 19357), (512, 19375), (519, 19411), (520, 19414), (524, 19432), (527, 19450), (537, 19507), (539, 19519), (552, 19582), (558, 19615), (569, 19702), (580, 19750), (584, 19774), (593, 19810), (596, 19849), (604, 19888), (608, 19912), (611, 19933), (621, 20029), (627, 20050), (635, 20110), (637, 20113), (641, 20140),

Gene: Zebo_58 Start: 36099, Stop: 38609, Start Num: 60
Candidate Starts for Zebo_58:
(Start: 60 @36099 has 35 MA's), (74, 36132), (100, 36201), (101, 36204), (109, 36228), (116, 36252), (126, 36276), (136, 36309), (193, 36516), (197, 36528), (198, 36531), (231, 36678), (233, 36708), (239, 36732), (250, 36762), (251, 36765), (256, 36792), (259, 36816), (269, 36846), (290, 36903), (294, 36927), (305, 36963), (308, 36975), (315, 36999), (317, 37002), (326, 37044), (348, 37140), (349, 37143), (409, 37398), (440, 37542), (452, 37602), (465, 37674), (466, 37677), (487, 37773), (527, 37947), (530, 37968), (548, 38061), (551, 38073), (565, 38163), (581, 38238), (596, 38283), (626, 38484), (632, 38538), (637, 38553),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 46
Candidate Starts for Zerg_18:
(Start: 46 @17367 has 244 MA's), (90, 17457), (113, 17517), (115, 17526), (116, 17529), (123, 17547), (140, 17595), (186, 17748), (189, 17757), (206, 17802), (225, 17901), (226, 17904), (239, 17970), (256, 18045), (257, 18051), (259, 18069), (267, 18093), (269, 18099), (270, 18102), (284, 18135), (286, 18141), (293, 18171), (301, 18192), (308, 18222), (311, 18231), (315, 18246), (317, 18249), (342, 18360), (343, 18363), (344, 18372), (345, 18378), (348, 18393), (349, 18396), (354, 18417), (363, 18447), (367, 18459), (372, 18492), (393, 18603), (395, 18606), (404, 18633), (406, 18639), (416, 18693), (417, 18696), (438, 18783), (440, 18798), (443, 18810), (444, 18813), (457, 18879), (462, 18903), (466, 18924), (468, 18933), (482, 18993), (483, 18996), (491, 19032), (494, 19050), (497, 19062), (500, 19071), (509, 19098), (522, 19155), (524, 19167), (527, 19185), (529, 19194), (530, 19206), (537, 19242), (542, 19272), (545, 19281), (546, 19293), (558, 19353), (565, 19407), (577, 19467), (585, 19509), (608, 19644), (612, 19668), (618, 19722), (621, 19770), (630, 19812), (633, 19836), (634, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 46
Candidate Starts for Zizzle_18:
(Start: 46 @17375 has 244 MA's), (83, 17456), (113, 17525), (115, 17534), (116, 17537), (123, 17555), (140, 17603), (154, 17648), (188, 17762), (189, 17765), (203, 17798), (206, 17810), (221, 17888), (233, 17954), (240, 17987), (253, 18041), (256, 18053), (269, 18107), (270, 18110), (272, 18119), (287, 18152), (299, 18191), (301, 18194), (304, 18209), (305, 18212), (313, 18239), (314, 18245), (315, 18248), (317, 18251), (323, 18278), (327, 18296), (328, 18299), (344, 18374), (348, 18395), (349, 18398), (356, 18425), (363, 18449), (372, 18494), (373, 18497), (382, 18548), (395, 18611), (399, 18620), (405, 18644), (431, 18749), (432, 18752), (440, 18803), (441, 18809), (443, 18815),

(444, 18818), (452, 18863), (454, 18878), (461, 18905), (466, 18929), (478, 18980), (482, 18998), (483, 19001), (484, 19013), (497, 19067), (527, 19190), (538, 19253), (550, 19316), (560, 19391), (599, 19592), (629, 19802), (636, 19841), (637, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 88
Candidate Starts for xkcd_27:
(Start: 88 @22453 has 134 MA's), (153, 22630), (158, 22651), (212, 22798), (240, 22939), (249, 22972), (256, 23005), (263, 23041), (293, 23134), (311, 23194), (317, 23212), (346, 23344), (357, 23389), (386, 23521), (393, 23566), (437, 23740), (440, 23761), (449, 23800), (452, 23821), (454, 23836), (491, 23992), (494, 24010), (511, 24064), (527, 24148), (545, 24241), (593, 24487), (621, 24703), (634, 24787), (641, 24820),