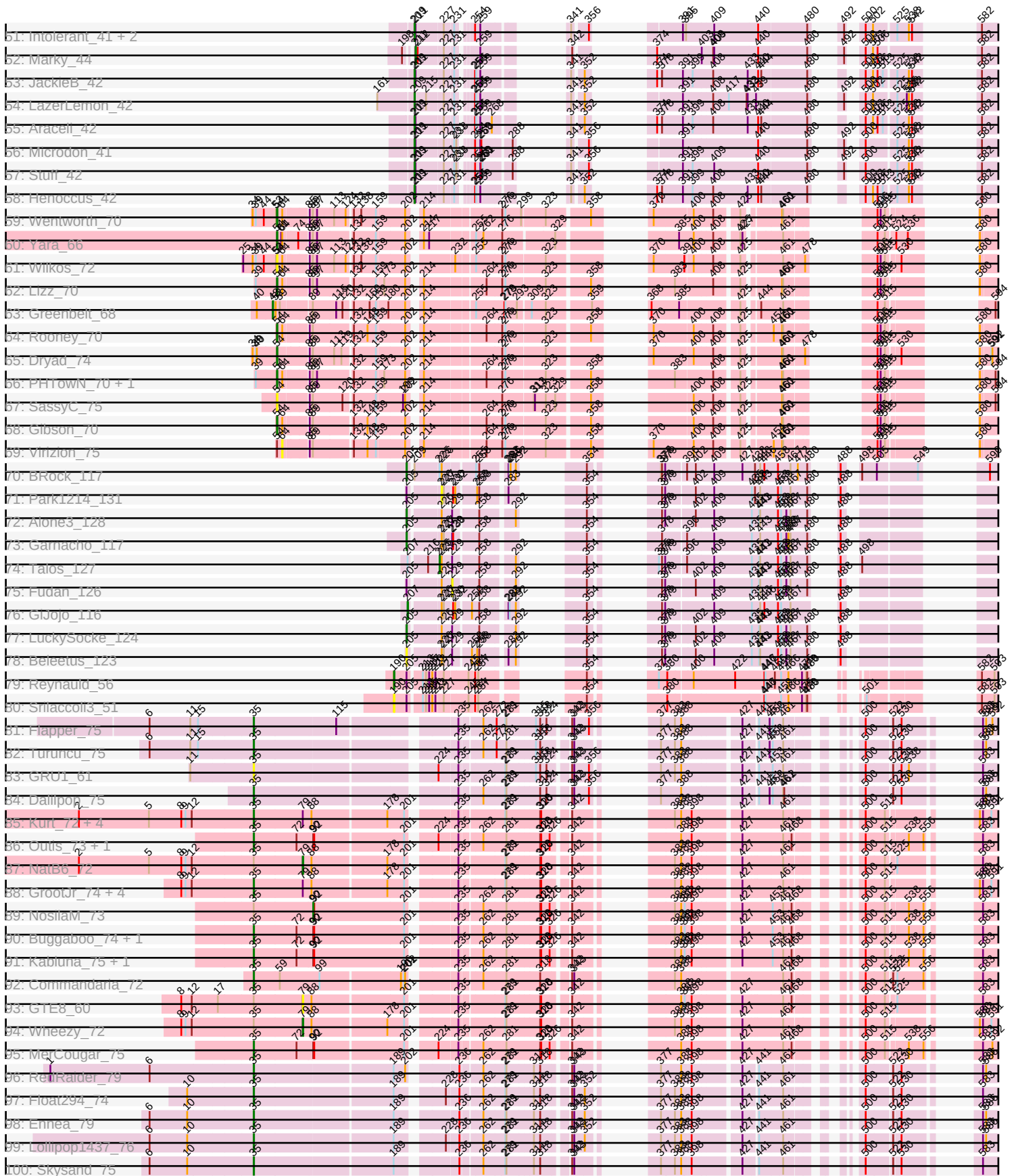


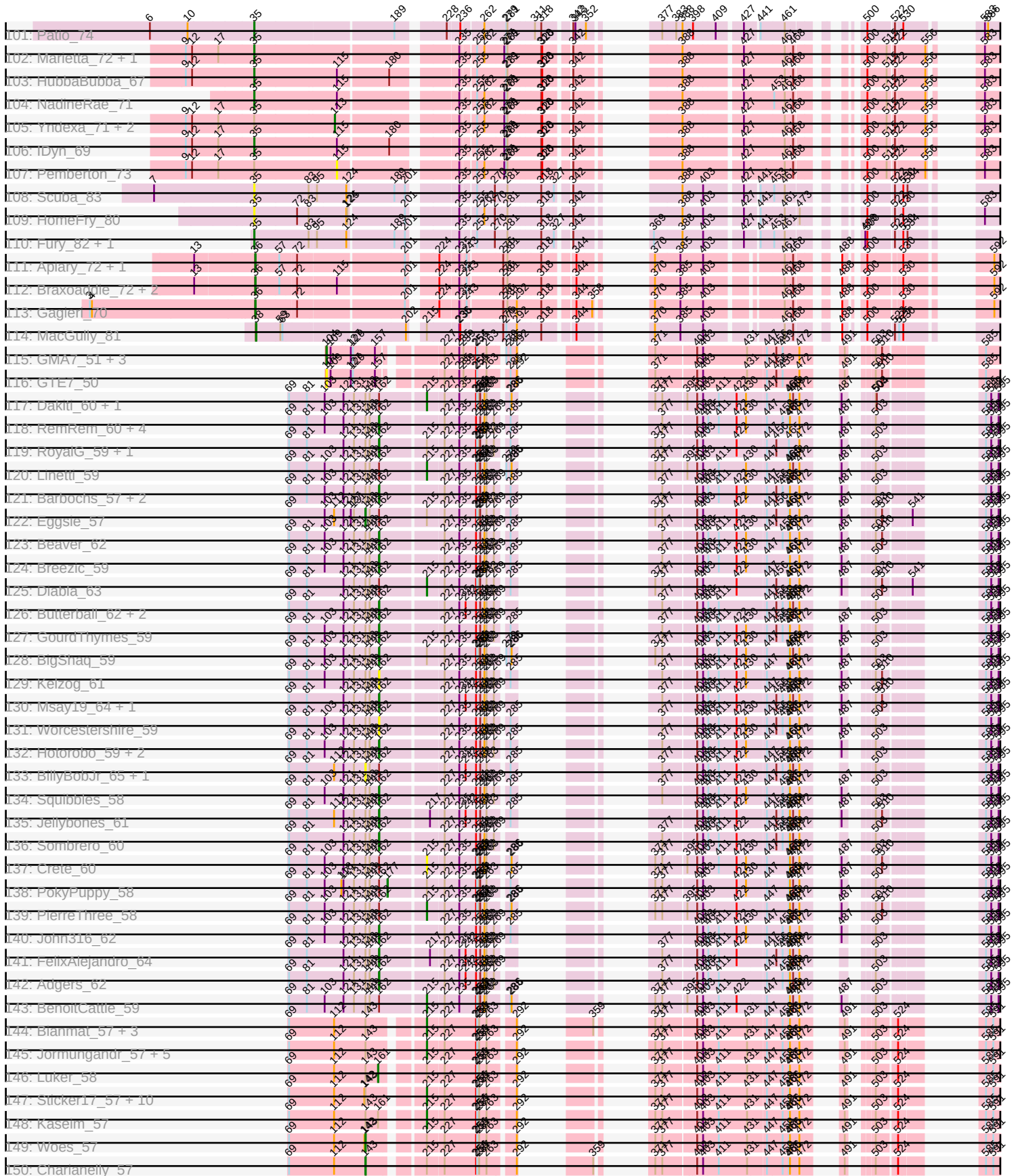
Zoomed Pham 294316

1: Fowimouth_74	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
2: Cuke_73	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
3: Induliamithi_65	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
4: MinMiyagi_73	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
5: Onyinye_65 + 1	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
6: Leopard_64	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
7: Aledel_26 + 3	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
8: Lucy_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
9: DreamTeam_25 + 2	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
10: Christian_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
11: WonderBoy_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
12: Nubia_29 + 1	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
13: Kaitzi_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
14: HunterDaite_26 + 1	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
15: Beethoven_29 + 7	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
16: EstebanJulior_26 + 1	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
17: MrBoss_30	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
18: Savage2526_29 + 5	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
19: Misaeng_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
20: Huntingdon_29 + 1	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
21: BrotherBlo_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
22: Sergei_26 + 5	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
23: Chrdoison_26	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
24: PitaDog_25 + 5	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
25: AppleCider_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
26: Wawa_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
27: Moki_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
28: Joani_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
29: Albanese_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
30: PartyCup_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
31: Uria_26	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
32: Suppi_29 + 2	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
33: Greenhouse_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
34: LirStuart_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
35: Preamble_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
36: GreenHearts_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
37: Zorro_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
38: PinkFriday_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
39: Lakshmi_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
40: Litotes_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
41: AustinPowers_26	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
42: Korra_30	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
43: Makoto_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
44: Graynor_30	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
45: Bennie_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
46: Scuttie_29	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
47: BigMack_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
48: Pumancara_25	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
49: Crosby_42	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534
50: ONYPL_44	900	113	130	189	202	224	232	252	280	290	300	357	385	398	409	437	449	464	468	500	523	534

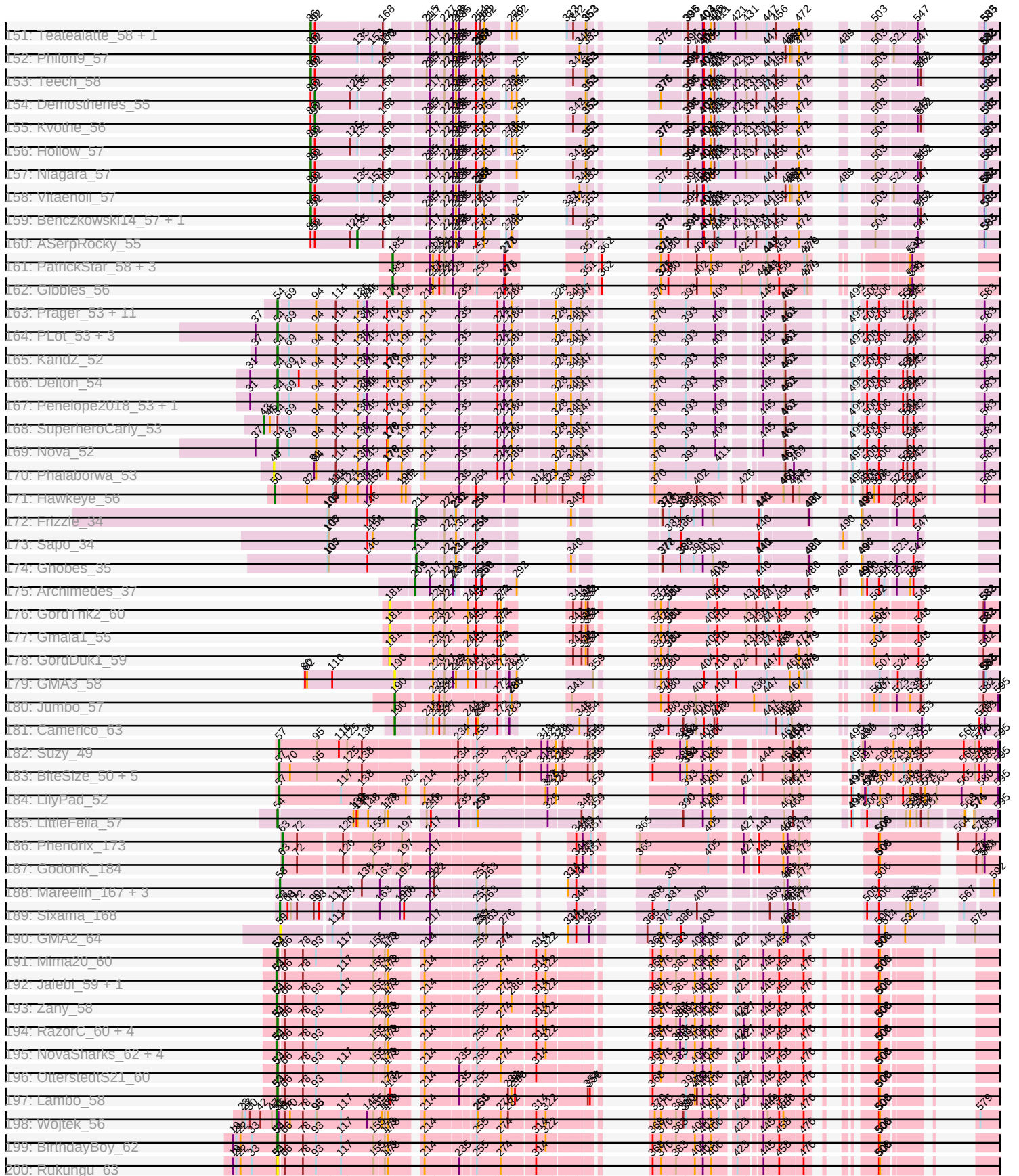
Zoomed Pham 294316



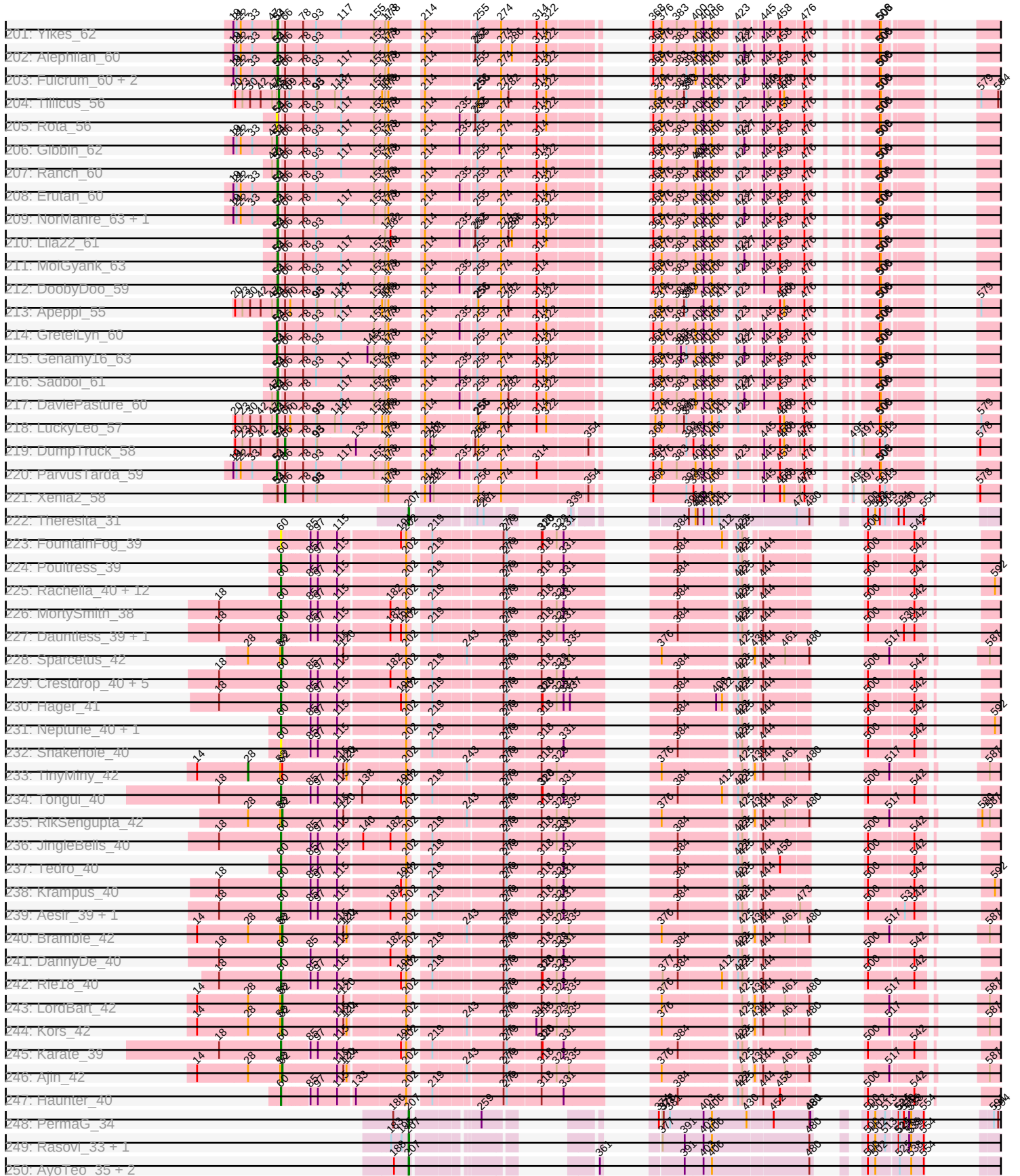
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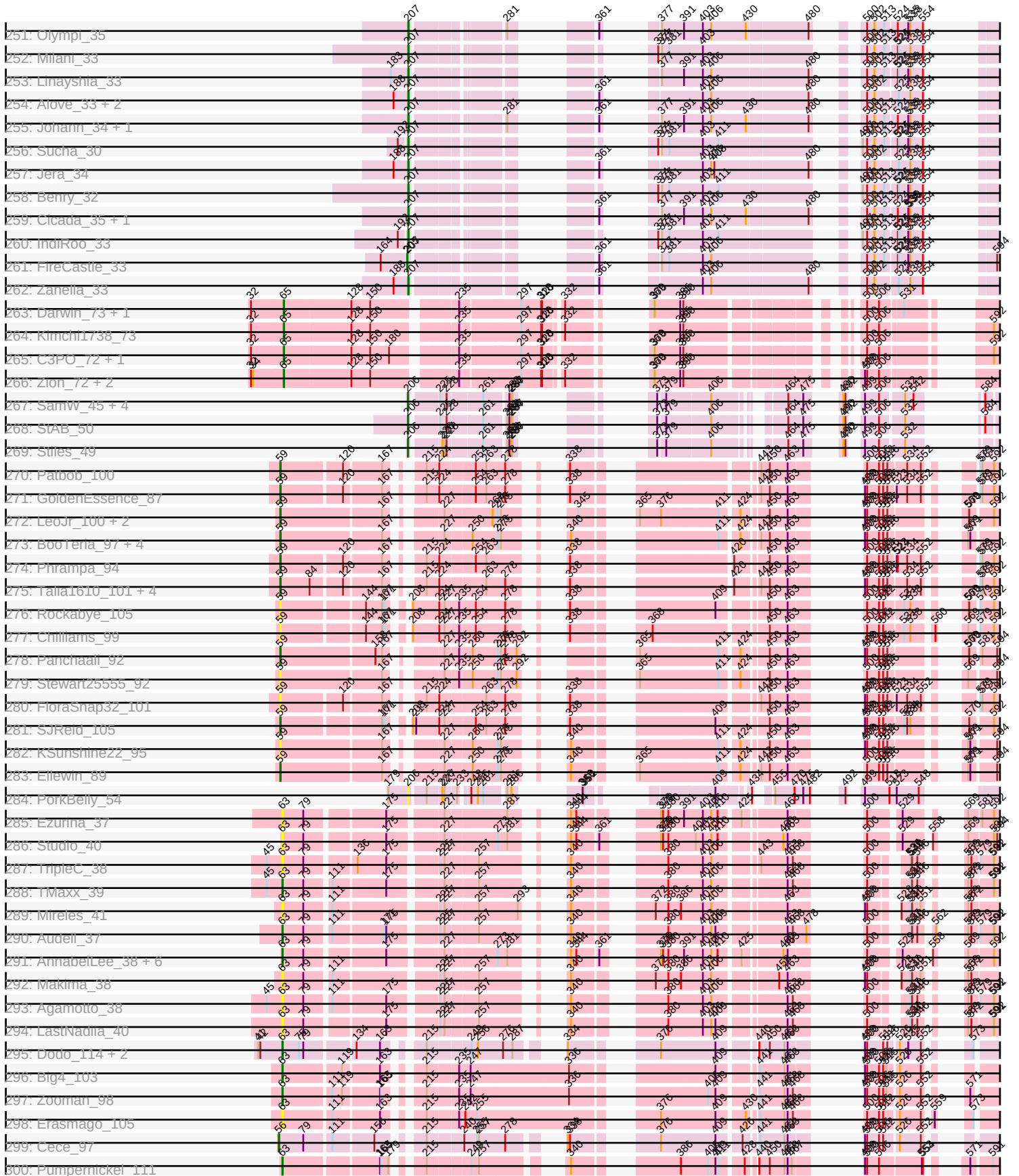
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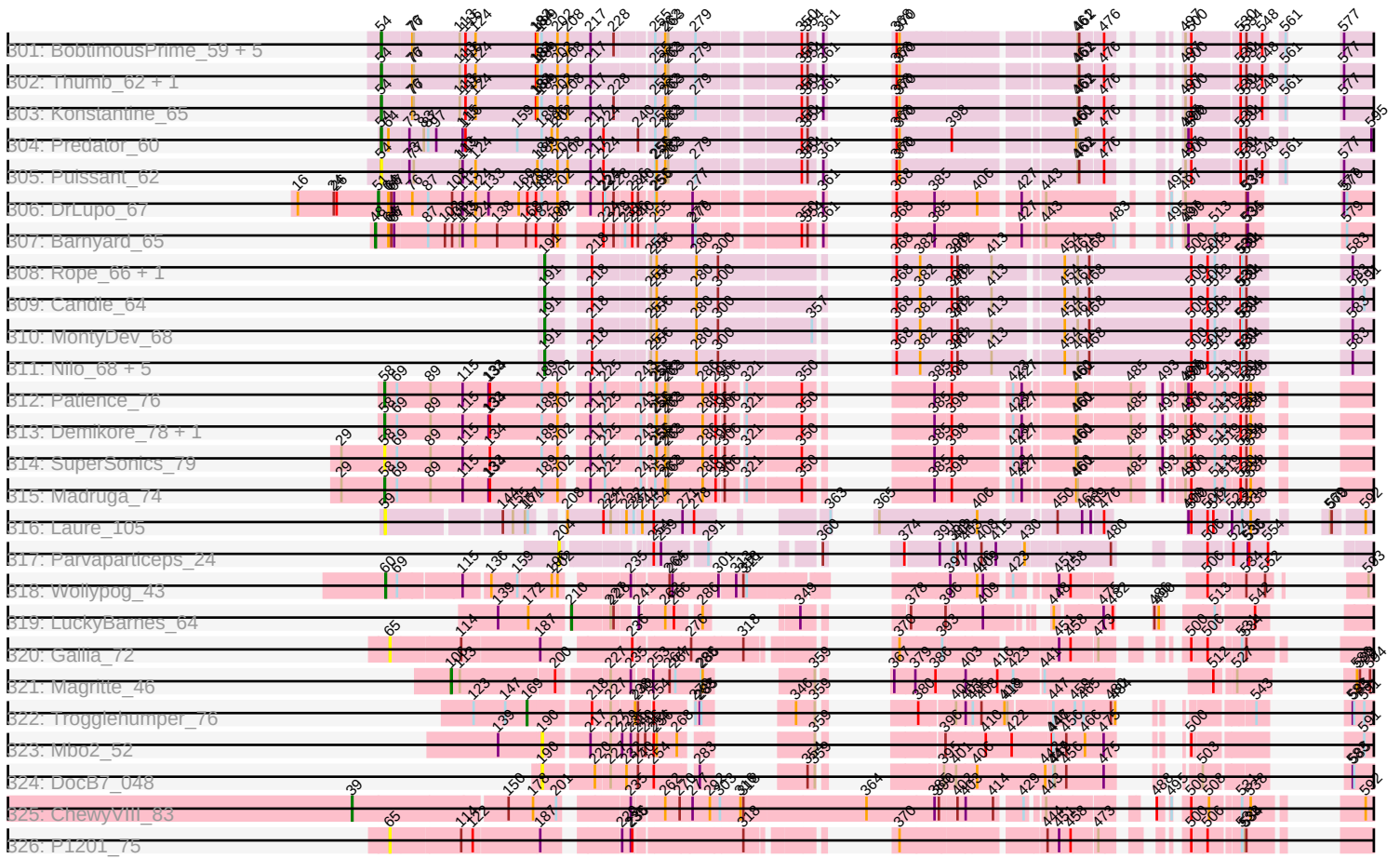
Zoomed Pham 294316



Zoomed Pham 294316



Zoomed Pham 294316



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 294316 Report

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

Pham number 294316 has 522 members, 80 are drafts.

Phages represented in each track:

- Track 1 : Fowlmouth_74
- Track 2 : Cuke_73
- Track 3 : Indlulamithi_65
- Track 4 : MrMiyagi_73
- Track 5 : Onyinye_65, Aikoy_65
- Track 6 : Leopard_64
- Track 7 : Aledel_26, Riovina_26, Eunoia_26, OMalley_26
- Track 8 : Lucy_25
- Track 9 : DreamTeam_25, Gisselle_25, Kittykat_25
- Track 10 : Christian_25
- Track 11 : WonderBoy_25
- Track 12 : Nubia_29, Oxyntfrius_29
- Track 13 : Kalizoi_29
- Track 14 : HunterDalle_26, Vulture_26
- Track 15 : Beethoven_29, Vallejo_29, Glenn_29, TattModd_29, Rozby_29, Fluke_29, Riverdale_29, Carpal_29
- Track 16 : EstebanJulior_26, MamaPearl_26
- Track 17 : MrBoss_30
- Track 18 : Savage2526_29, RAP15_29, Cholula_29, MeganNoll_29, Potatoes_29, Jumboset_29
- Track 19 : Misaeng_29
- Track 20 : Huntingdon_29, RcigaStruga_29
- Track 21 : BrotherBLo_29
- Track 22 : Sergei_26, Maria1952_26, Daiboju_26, KingBob_26, Herb_26, Temper16_26
- Track 23 : Chridison_26
- Track 24 : PitaDog_25, Bodacious_25, CristinaYang_25, ChewChew_25, Nancia_25, DrRobert_25
- Track 25 : AppleCider_29
- Track 26 : Wawa_29
- Track 27 : Moki_25
- Track 28 : Joann_29
- Track 29 : Albanese_29
- Track 30 : PartyCup_29
- Track 31 : Urla_26
- Track 32 : Suppi_29, Canowicakte_29, Wayne_29
- Track 33 : Greenhouse_29

- Track 34 : LilStuart_25
- Track 35 : Preamble_25
- Track 36 : GreenHearts_29
- Track 37 : Zorro_29
- Track 38 : PinkFriday_25
- Track 39 : Lakshmi_29
- Track 40 : Litotes_29
- Track 41 : AustinPowers_26
- Track 42 : Korra_30
- Track 43 : Makoto_25
- Track 44 : Graynor_30
- Track 45 : Bennie_25
- Track 46 : Scuttle_29
- Track 47 : BigMack_25
- Track 48 : Pumancara_25
- Track 49 : Crosby_42
- Track 50 : UNTPL_44
- Track 51 : Intolerant_41, Shynx_42, Bogota_43
- Track 52 : Marky_44
- Track 53 : JackieB_42
- Track 54 : LazerLemon_42
- Track 55 : Araceli_42
- Track 56 : Microdon_41
- Track 57 : Stuff_42
- Track 58 : Henoccus_42
- Track 59 : Wentworth_70
- Track 60 : Yara_66
- Track 61 : Wilkos_72
- Track 62 : Lizz_70
- Track 63 : Greenbelt_68
- Track 64 : Rooney_70
- Track 65 : Dryad_74
- Track 66 : PHTowN_70, ShakeNBake_70
- Track 67 : SassyC_75
- Track 68 : Gibson_70
- Track 69 : Virizion_75
- Track 70 : BRock_117
- Track 71 : Park1214_131
- Track 72 : Alone3_128
- Track 73 : Garnacho_117
- Track 74 : Talos_127
- Track 75 : Fudan_126
- Track 76 : GiJojo_116
- Track 77 : LuckySocke_124
- Track 78 : Beleetus_123
- Track 79 : Reynauld_56
- Track 80 : Srilaccoli3_51
- Track 81 : Flapper_75
- Track 82 : Turuncu_75
- Track 83 : GRU1_61
- Track 84 : Dalilpop_75
- Track 85 : Kurt_72, Jifall16_71, KidneyBean_72, Emianna_72, Phomeo_71
- Track 86 : Outis_73, StarStruck_73

- Track 87 : NatB6_72
- Track 88 : GrootJr_74, Tracker_72, Arti_71, NovumRegina_72, Foxboro_72
- Track 89 : NosilaM_73
- Track 90 : Buggaboo_74, SuperSulley_74
- Track 91 : Kabluna_75, Bonum_76
- Track 92 : Commandaria_72
- Track 93 : GTE8_60
- Track 94 : Wheezy_72
- Track 95 : MerCougar_75
- Track 96 : RedRaider_79
- Track 97 : Float294_74
- Track 98 : Ennea_79
- Track 99 : Lollipop1437_76
- Track 100 : Skysand_75
- Track 101 : Patio_74
- Track 102 : Marietta_72, WhoseManz_71
- Track 103 : HubbaBubba_67
- Track 104 : NadineRae_71
- Track 105 : Yndexa_71, Sukkupi_71, BiPauneto_74
- Track 106 : IDyn_69
- Track 107 : Pemberton_73
- Track 108 : Scuba_83
- Track 109 : HomeFry_80
- Track 110 : Fury_82, Pleakley_82
- Track 111 : Apiary_72, Polyuyuki_72
- Track 112 : Braxoaddie_72, Maselop_72, CoffeeBean_72
- Track 113 : Gagieri_70
- Track 114 : MacGully_81
- Track 115 : GMA7_51, Amore2_62, Austin_61, HayZem_62
- Track 116 : GTE7_50
- Track 117 : Dakiti_60, Chelms_59
- Track 118 : RemRem_60, Ekhein_59, Exiguo_58, Flakey_58, Sam12_58
- Track 119 : RoyalG_59, SteveFrench_58
- Track 120 : Linetti_59
- Track 121 : Barbochs_57, CathyBurgh_59, Lizzo_59
- Track 122 : Eggsie_57
- Track 123 : Beaver_62
- Track 124 : Breezic_59
- Track 125 : Diabla_63
- Track 126 : Butterball_62, BirksAndSocks_64, Boneham_63
- Track 127 : GourdThymes_59
- Track 128 : BigShaq_59
- Track 129 : Kelzog_61
- Track 130 : Msay19_64, Poland_64
- Track 131 : Worcestershire_59
- Track 132 : Hotorobo_59, Monty_58, Gorko_58
- Track 133 : BillyBobJr_65, CinnamonToast_65
- Track 134 : Squibbles_58
- Track 135 : Jellybones_61
- Track 136 : Sombrero_60
- Track 137 : Crete_60
- Track 138 : PokyPuppy_58
- Track 139 : PierreThree_58

- Track 140 : John316_62
- Track 141 : FelixAlejandro_64
- Track 142 : Adgers_62
- Track 143 : BenoitCattle_59
- Track 144 : Bianmat_57, Shelley_57, Lidong_57, Jams_57
- Track 145 : Jormungandr_57, Nimi13_57, Guillaume_57, MrWormie_57, Lahirium_57, Berries_57
- Track 146 : Luker_58
- Track 147 : Sticker17_57, Neoevie_57, Damp_57, GalacticEye_57, Teal_57, Minos_58, Newt_58, Anamika_57, Harambe_57, Hello_57, Hail2Pitt_56
- Track 148 : Kaseim_57
- Track 149 : Woes_57
- Track 150 : Charianelly_57
- Track 151 : Teatealatte_58, Tredge_57
- Track 152 : Philon9_57
- Track 153 : Teech_58
- Track 154 : Demosthenes_55
- Track 155 : Kvothe_56
- Track 156 : Hollow_57
- Track 157 : Niagara_57
- Track 158 : Vitaenoi_57
- Track 159 : Benczkowski14_57, Katyusha_57
- Track 160 : ASerpRocky_55
- Track 161 : PatrickStar_58, Orchid_57, Kampe_58, RobinSparkles_61
- Track 162 : Gibbles_56
- Track 163 : Prager_53, Giuseppe_53, Butterscotch_52, Chill_55, PBI1_50, WaldoWhy_55, Adjutor_52, BigMama_51, Visconti_54, Mopey_54, Troll4_53, Thoth_53
- Track 164 : PLOT_53, SirHarley_54, Erk16_52, Gumball_52
- Track 165 : KandZ_52
- Track 166 : Delton_54
- Track 167 : Penelope2018_53, Helpful_56
- Track 168 : SuperheroCarly_53
- Track 169 : Nova_52
- Track 170 : Phalaborwa_53
- Track 171 : Hawkeye_56
- Track 172 : Frizzle_34
- Track 173 : Sapo_34
- Track 174 : Ghobes_35
- Track 175 : Archimedes_37
- Track 176 : GordTnk2_60
- Track 177 : Gmala1_55
- Track 178 : GordDuk1_59
- Track 179 : GMA3_58
- Track 180 : Jumbo_57
- Track 181 : Camerico_63
- Track 182 : Suzy_49
- Track 183 : BiteSize_50, Terapin_51, Sienna_50, Madi_50, Beyoncage_50, Djokovic_50
- Track 184 : LilyPad_52
- Track 185 : LittleFella_57
- Track 186 : Phendrix_173
- Track 187 : GodonK_184

- Track 188 : Mareelih_167, BlueNGold_166, Forza_170, Boopy_169
- Track 189 : Sixama_168
- Track 190 : GMA2_64
- Track 191 : Mima20_60
- Track 192 : Jalebi_59, Sampudon_60
- Track 193 : Zany_58
- Track 194 : RazorC_60, Astralis_60, Charminar_60, Rumi_61, Riduram_61
- Track 195 : NovaSharks_62, Jamemuya19_59, Alyssamiracle_63, Stormer_61, Avian_59
- Track 196 : OtterstedtS21_60
- Track 197 : Lambo_58
- Track 198 : Wojtek_56
- Track 199 : BirthdayBoy_62
- Track 200 : Rukungu_63
- Track 201 : Yikes_62
- Track 202 : Alephilan_60
- Track 203 : Fulcrum_60, LavAbarElk_60, GOATification_60
- Track 204 : Tillicus_56
- Track 205 : Rota_56
- Track 206 : Gibbin_62
- Track 207 : Ranch_60
- Track 208 : Erutan_60
- Track 209 : NorManre_63, Patos_63
- Track 210 : Lila22_61
- Track 211 : MoiGyank_63
- Track 212 : DoobyDoo_59
- Track 213 : Apeppi_55
- Track 214 : GretelLyn_60
- Track 215 : Genamy16_63
- Track 216 : Sadboi_61
- Track 217 : DaviePasture_60
- Track 218 : LuckyLeo_57
- Track 219 : DumpTruck_58
- Track 220 : ParvusTarda_59
- Track 221 : Xenia2_58
- Track 222 : Theresita_31
- Track 223 : FountainFog_39
- Track 224 : Poultruss_39
- Track 225 : Rachella_40, OhDear_40, OverHedge_40, Anakin_40, PhunaPhoke_40, AnnaSerena_40, Pharpay_40, Potty_40, Gilda_40, Artiphact_40, CoolCookie_40, NarutoRun_40, Kate_41
- Track 226 : MortySmith_38
- Track 227 : Dauntless_39, Erudite_39
- Track 228 : Sparcetus_42
- Track 229 : Crestdrop_40, SilentWarrior_40, Hiddenleaf_40, Chivey_40, FreddieHg_40, Annapurna_40
- Track 230 : Hager_41
- Track 231 : Neptune_40, Cybele_40
- Track 232 : Snakehole_40
- Track 233 : TinyMiny_42
- Track 234 : Tongui_40
- Track 235 : RikSengupta_42
- Track 236 : JingleBells_40

- Track 237 : Tedro_40
- Track 238 : Krampus_40
- Track 239 : Aesir_39, JDawG_39
- Track 240 : Bramble_42
- Track 241 : DannyDe_40
- Track 242 : Rie18_40
- Track 243 : LordBart_42
- Track 244 : Kors_42
- Track 245 : Karate_39
- Track 246 : Ajin_42
- Track 247 : Haunter_40
- Track 248 : PermaG_34
- Track 249 : Rasovi_33, Htur_33
- Track 250 : AyoTeo_35, Labella_35, Typher_35
- Track 251 : Olympi_35
- Track 252 : Milani_33
- Track 253 : Linayshia_33
- Track 254 : Alove_33, Rootkit7_33, TurboVicky_33
- Track 255 : Johann_34, Goodman_34
- Track 256 : Sucha_30
- Track 257 : Jera_34
- Track 258 : Benry_32
- Track 259 : Cicada_35, SBlackberry_33
- Track 260 : IndiRoo_33
- Track 261 : FireCastle_33
- Track 262 : Zanella_33
- Track 263 : Darwin_73, Stickynote_71
- Track 264 : Kimchi1738_73
- Track 265 : C3PO_72, Cruella_72
- Track 266 : Zion_72, PeteyPab_71, PotatoChip_72
- Track 267 : SamW_45, Adelaide_46, Troy_45, Dina_47, Lederberg_45
- Track 268 : StAB_50
- Track 269 : Stiles_49
- Track 270 : Patbob_100
- Track 271 : GoldenEssence_87
- Track 272 : LeoJr_100, Atuin_95, ReginaGlobina_100
- Track 273 : BooTeria_97, WaddleDee_88, DunneganBoMo_90, Artu_93, Emmetator_93
- Track 274 : Phrampa_94
- Track 275 : Talia1610_101, Bloom_105, Racecar_102, Mimi_101, FrostedClock_104
- Track 276 : Rockabye_105
- Track 277 : Chilliams_99
- Track 278 : Panchaali_92
- Track 279 : Stewart25555_92
- Track 280 : FloraSnap32_101
- Track 281 : SJReid_105
- Track 282 : KSunshine22_95
- Track 283 : Ellewin_89
- Track 284 : PorkBelly_54
- Track 285 : Ezurina_37
- Track 286 : Studio_40
- Track 287 : TripleC_38

- Track 288 : TMaxx_39
- Track 289 : Mireles_41
- Track 290 : Audell_37
- Track 291 : AnnabelLee_38, ChipsNGuac_39, ChamoyPickle_40, CardboardBox_39, Neuville_38, Roberts_38, Gerri43_39
- Track 292 : Makima_38
- Track 293 : Agamoto_38
- Track 294 : LastNadia_40
- Track 295 : Dodo_114, A3Wally_114, PauloDiaboli_114
- Track 296 : Big4_103
- Track 297 : Zooman_98
- Track 298 : Erasmago_105
- Track 299 : Cece_97
- Track 300 : Pumpnickel_111
- Track 301 : BobtimousPrime_59, Megatron06_62, Damien_61, Beckerton_60, Cborch11_63, Oaker_60
- Track 302 : Thumb_62, Phreeze_60
- Track 303 : Konstantine_65
- Track 304 : Predator_60
- Track 305 : Puissant_62
- Track 306 : DrLupo_67
- Track 307 : Barnyard_65
- Track 308 : Rope_66, Papyrus_66
- Track 309 : Candle_64
- Track 310 : MontyDev_68
- Track 311 : Nilo_68, Riparian_68, Zenon_68, Send513_66, Yelo_65, Weiss13_66
- Track 312 : Patience_76
- Track 313 : Demikore_78, Labelle_76
- Track 314 : SuperSonics_79
- Track 315 : Madruga_74
- Track 316 : Laure_105
- Track 317 : Parvaparticeps_24
- Track 318 : Wollypog_43
- Track 319 : LuckyBarnes_64
- Track 320 : Gallia_72
- Track 321 : Magritte_46
- Track 322 : Trogglehumper_76
- Track 323 : Mbo2_52
- Track 324 : DocB7_048
- Track 325 : ChewyVIII_83
- Track 326 : P1201_75

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

The start number called the most often in the published annotations is 203, it was called in 73 of the 442 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Albanese_29, Aledel_26, AppleCider_29, AustinPowers_26, Beethoven_29, Bennie_25, BigMack_25, Bodacious_25, BrotherBLo_29, Canowicakte_29,

Carpal_29, ChewChew_25, Cholula_29, Chridison_26, Christian_25, CristinaYang_25, Daiboju_26, DrRobert_25, DreamTeam_25, EstebanJulior_26, Eunoia_26, Fluke_29, Gisselle_25, Glenn_29, Graynor_30, GreenHearts_29, Greenhouse_29, Herb_26, HunterDalle_26, Huntingdon_29, Joann_29, Jumboset_29, Kalizoi_29, KingBob_26, Kittykat_25, Korra_30, Lakshmi_29, LilStuart_25, Litotes_29, Lucy_25, Makoto_25, MamaPearl_26, Maria1952_26, MeganNoll_29, Misaeng_29, Moki_25, MrBoss_30, Nancia_25, Nubia_29, OMalley_26, Oxynfrius_29, PartyCup_29, PinkFriday_25, PitaDog_25, Potatoes_29, Preamble_25, Pumancara_25, RAP15_29, RcigaStruga_29, Riovina_26, Riverdale_29, Rozby_29, Savage2526_29, Scuttle_29, Sergei_26, Suppi_29, TattModd_29, Temper16_26, Urla_26, Vallejo_29, Vulture_26, Wawa_29, Wayne_29, WonderBoy_25, Zorro_29,

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

•

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

• A3Wally_114, ASerpRocky_55, Adelaide_46, Adgers_62, Adjutor_52, Aesir_39, Agamotto_38, Aikoy_65, Ajin_42, Alephilan_60, Alone3_128, Alove_33, Alyssamiracle_63, Amore2_62, Anakin_40, Anamika_57, AnnaSerena_40, AnnabelLee_38, Annapurna_40, Apeppi_55, Apiary_72, Araceli_42, Archimedes_37, Arti_71, Artiphact_40, Artu_93, Astralis_60, Atuin_95, Audell_37, Austin_61, Avian_59, AyoTeo_35, BRock_117, Barbochs_57, Barnyard_65, Beaver_62, Beckerton_60, Beleetus_123, Benczkowski14_57, BenoitCattle_59, Benry_32, Berries_57, Beyoncage_50, BiPauneto_74, Bianmat_57, Big4_103, BigMama_51, BigShaq_59, BillyBobJr_65, BirksAndSocks_64, BirthdayBoy_62, BiteSize_50, Bloom_105, BlueNGold_166, BobtimousPrime_59, Bogota_43, Boneham_63, Bonum_76, BooTeria_97, Boopy_169, Bramble_42, Braxoaddie_72, Breezic_59, Buggaboo_74, Butterball_62, Butterscotch_52, C3PO_72, Camerico_63, Candle_64, CardboardBox_39, CathyBurgh_59, Cborch11_63, Cece_97, ChamoyPickle_40, Charianelly_57, Charminar_60, Chelms_59, ChewyVIII_83, Chill_55, Chilliams_99, ChipsNGuac_39, Chivey_40, Cicada_35, CinnamonToast_65, CoffeeBean_72, Commandaria_72, CoolCookie_40, Crestdrop_40, Crete_60, Crosby_42, Cruella_72, Cuke_73, Cybele_40, Dakiti_60, Dalilpop_75, Damien_61, Damp_57, DannyDe_40, Darwin_73, Dauntless_39, DaviePasture_60, Delton_54, Demikore_78, Demosthenes_55, Diabla_63, Dina_47, Djokovic_50, DocB7_048, Dodo_114, DoobyDoo_59, DrLupo_67, Dryad_74, DumpTruck_58, DunneganBoMo_90, Eggsie_57, Ekhein_59, Ellewin_89, Emianna_72, Emmetator_93, Ennea_79, Erasmago_105, Erk16_52, Erudite_39, Erutan_60, Exiguo_58, Ezurina_37, FelixAlejandro_64, FireCastle_33, Flakey_58, Flapper_75, Float294_74, FloraSnap32_101, Forza_170, FountainFog_39, Fowlmouth_74, Foxboro_72, FreddieHg_40, Frizzle_34, FrostedClock_104, Fudan_126, Fulcrum_60, Fury_82, GMA2_64, GMA3_58, GMA7_51, GOATification_60, GRU1_61, GTE7_50, GTE8_60, Gagieri_70, GalacticEye_57, Gallia_72, Garnacho_117, Genamy16_63, Gerri43_39, Ghobes_35, GiJojo_116, Gibbin_62, Gibbles_56, Gibson_70, Gilda_40, Giuseppe_53, Gmala1_55, GodonK_184, GoldenEssence_87, Goodman_34, GordDuk1_59, GordTnk2_60, Gorko_58, GourdThymes_59, Greenbelt_68, GretelLyn_60, GrootJr_74, Guillaume_57, Gumball_52, Hager_41, Hail2Pitt_56, Harambe_57, Haunter_40, Hawkeye_56, HayZem_62, Hello_57, Helpful_56, Henoccus_42, Hiddenleaf_40, Hollow_57, HomeFry_80, Hotorobo_59, Htur_33, HubbaBubba_67, IDyn_69, IndiRoo_33, Indlulamithi_65, Intolerant_41, JDawG_39, JackieB_42, Jalebi_59, Jamemuya19_59, Jams_57, Jellybones_61, Jera_34, Jifall16_71, JingleBells_40, Johann_34, John316_62, Jormungandr_57, Jumbo_57,

KSunshine22_95, Kabluna_75, Kampe_58, KandZ_52, Karate_39, Kaseim_57,
 Kate_41, Katyusha_57, Kelzog_61, KidneyBean_72, Kimchi1738_73,
 Konstantine_65, Kors_42, Krampus_40, Kurt_72, Kvothe_56, Labela_35, Labelle_76,
 Lahirium_57, Lambo_58, LastNadiia_40, Laure_105, LavAbarElk_60,
 LazerLemon_42, Lederberg_45, LeoJr_100, Leopard_64, Lidong_57, Lila22_61,
 LilyPad_52, Linayshia_33, Linetti_59, LittleFella_57, Lizz_70, Lizzo_59,
 Lollipop1437_76, LordBart_42, LuckyBarnes_64, LuckyLeo_57, LuckySocke_124,
 Luker_58, MacGully_81, Madi_50, Madrugá_74, Magritte_46, Makima_38,
 Mareelih_167, Marietta_72, Marky_44, Maselop_72, Mbo2_52, Megatron06_62,
 MerCougar_75, Microdon_41, Milani_33, Mima20_60, Mimi_101, Minos_58,
 Mireles_41, MoiGyank_63, MontyDev_68, Monty_58, Mopey_54, MortySmith_38,
 MrMiyagi_73, MrWormie_57, Msay19_64, NadineRae_71, NarutoRun_40, NatB6_72,
 Neoevie_57, Neptune_40, Neuville_38, Newt_58, Niagara_57, Nilo_68, Nimi13_57,
 NorManre_63, NosilaM_73, NovaSharks_62, Nova_52, NovumRegina_72, Oaker_60,
 OhDear_40, Olympi_35, Onyinye_65, Orchid_57, OtterstedtS21_60, Outis_73,
 OverHedge_40, P1201_75, PBI1_50, PHTowN_70, PLOT_53, Panchaali_92,
 Papyrus_66, Park1214_131, Parvaparticeps_24, ParvusTarda_59, Patbob_100,
 Patience_76, Patio_74, Patos_63, PatrickStar_58, PauloDiaboli_114, Pemberton_73,
 Penelope2018_53, PermaG_34, PeteyPab_71, Phalaborwa_53, Pharpay_40,
 Phendrix_173, Philon9_57, Phomeo_71, Phrampa_94, Phreeze_60,
 PhunaPhoke_40, PierreThree_58, Pleakley_82, PokyPuppy_58, Poland_64,
 Polyyuki_72, PorkBelly_54, PotatoChip_72, Potty_40, Poultress_39, Prager_53,
 Predator_60, Puissant_62, Pumpernickel_111, Racecar_102, Rachella_40,
 Ranch_60, Rasovi_33, RazorC_60, RedRaider_79, ReginaGlobina_100,
 RemRem_60, Reynauld_56, Riduram_61, Rie18_40, RikSengupta_42, Riparian_68,
 Roberts_38, RobinSparkles_61, Rockabye_105, Rooney_70, Rootkit7_33, Rope_66,
 Rota_56, RoyalG_59, Rukungu_63, Rumi_61, SBlackberry_33, SJReid_105,
 Sadboi_61, Sam12_58, SamW_45, Sampudon_60, Sapó_34, SassyC_75, Scuba_83,
 Send513_66, ShakeNBake_70, Shelley_57, Shynx_42, Sienna_50, SilentWarrior_40,
 SirHarley_54, Sixama_168, Skysand_75, Snakehole_40, Sombrero_60,
 Sparcetus_42, Squibbles_58, Srilaccoli3_51, StAB_50, StarStruck_73,
 SteveFrench_58, Stewart25555_92, Sticker17_57, Stickynote_71, Stiles_49,
 Stormer_61, Studio_40, Stuff_42, Sucha_30, Sukkupi_71, SuperSonics_79,
 SuperSulley_74, SuperheroCarly_53, Suzy_49, TMaxx_39, Talia1610_101,
 Talos_127, Teal_57, Teatealatte_58, Tedro_40, Teech_58, Terapin_51,
 Theresita_31, Thoth_53, Thumb_62, Tillicus_56, TinyMiny_42, Tongui_40,
 Tracker_72, Tredge_57, TripleC_38, Trogglehumper_76, Troll4_53, Troy_45,
 TurboVicky_33, Turuncu_75, Typher_35, UNTPL_44, Virizion_75, Visconti_54,
 Vitaenoi_57, WaddleDee_88, WaldoWhy_55, Weiss13_66, Wentworth_70,
 Wheezy_72, WhoseManz_71, Wilkos_72, Woes_57, Wojtek_56, Wollypog_43,
 Worcestershire_59, Xenia2_58, Yara_66, Yelo_65, Yikes_62, Yndexa_71,
 Zarella_33, Zany_58, Zenon_68, Zion_72, Zooman_98,

Summary by start number:

Start 28:

- Found in 7 of 522 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 14.3% of time when present
- Phage (with cluster) where this start called: TinyMiny_42 (EF),

Start 35:

- Found in 45 of 522 (8.6%) of genes in pham

- Manual Annotations of this start: 34 of 442
- Called 82.2% of time when present
- Phage (with cluster) where this start called: Arti_71 (CR2), Bonum_76 (CR2), Buggaboo_74 (CR2), Commandaria_72 (CR2), Dalilpop_75 (CR1), Emianna_72 (CR2), Ennea_79 (CR3), Flapper_75 (CR1), Float294_74 (CR3), Foxboro_72 (CR2), Fury_82 (CR5), GRU1_61 (CR1), GrootJr_74 (CR2), HomeFry_80 (CR5), HubbaBubba_67 (CR4), IDyn_69 (CR4), Jifall16_71 (CR2), Kabluna_75 (CR2), KidneyBean_72 (CR2), Kurt_72 (CR2), Lollipop1437_76 (CR3), Marietta_72 (CR4), MerCougar_75 (CR2), NadineRae_71 (CR4), NovumRegina_72 (CR2), Outis_73 (CR2), Patio_74 (CR3), Phomeo_71 (CR2), Pleakley_82 (CR5), RedRaider_79 (CR3), Scuba_83 (CR5), Skysand_75 (CR3), StarStruck_73 (CR2), SuperSulley_74 (CR2), Tracker_72 (CR2), Turuncu_75 (CR1), WhoseManz_71 (CR4),

Start 36:

- Found in 6 of 522 (1.1%) of genes in pham
- Manual Annotations of this start: 6 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apiary_72 (CR6), Braxoaddie_72 (CR6), CoffeeBean_72 (CR6), Gagieri_70 (CR6), Maselop_72 (CR6), Polyuyuki_72 (CR6),

Start 38:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MacGully_81 (CR7),

Start 39:

- Found in 7 of 522 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 14.3% of time when present
- Phage (with cluster) where this start called: ChewyVIII_83 (singleton),

Start 43:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SuperheroCarly_53 (D1),

Start 48:

- Found in 2 of 522 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_65 (H2), Greenbelt_68 (BN),

Start 49:

- Found in 1 of 522 (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: Phalaborwa_53 (D1),

Start 50:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_56 (D2),

Start 51:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrLupo_67 (H2),

Start 53:

- Found in 45 of 522 (8.6%) of genes in pham
- Manual Annotations of this start: 13 of 442
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_63 (DV), Avian_59 (DV), Genamy16_63 (DV), Gibbin_62 (DV), GretelLyn_60 (DV), Jalebi_59 (DV), Jamemuya19_59 (DV), LuckyLeo_57 (DV), NovaSharks_62 (DV), ParvusTarda_59 (DV), Rota_56 (DV), Sampudon_60 (DV), Stormer_61 (DV), Wojtek_56 (DV), Zany_58 (DV),

Start 54:

- Found in 89 of 522 (17.0%) of genes in pham
- Manual Annotations of this start: 63 of 442
- Called 79.8% of time when present
- Phage (with cluster) where this start called: Adjutor_52 (D1), Aikoy_65 (AE), Alephilan_60 (DV), Apeppi_55 (DV), Astralis_60 (DV), Beckerton_60 (H1), BigMama_51 (D1), BirthdayBoy_62 (DV), BobtimousPrime_59 (H1), Butterscotch_52 (D1), Cborch11_63 (H1), Charminar_60 (DV), Chill_55 (D1), Damien_61 (H1), DaviePasture_60 (DV), Delton_54 (D1), DoobyDoo_59 (DV), Dryad_74 (BN), Erk16_52 (D1), Erutan_60 (DV), Fulcrum_60 (DV), GOATification_60 (DV), Gibson_70 (BN), Giuseppe_53 (D1), Gumball_52 (D1), Helpful_56 (D1), KandZ_52 (D1), Konstantine_65 (H1), Lambo_58 (DV), LavAbarElk_60 (DV), Leopard_64 (AE), Lila22_61 (DV), LittleFella_57 (DG2), Lizz_70 (BN), Megatron06_62 (H1), Mima20_60 (DV), MoiGyank_63 (DV), Mopey_54 (D1), NorManre_63 (DV), Nova_52 (D1), Oaker_60 (H1), Onyinye_65 (AE), OtterstedtS21_60 (DV), PBI1_50 (D1), PHTown_70 (BN), PLOT_53 (D1), Patos_63 (DV), Penelope2018_53 (D1), Phreeze_60 (H1), Prager_53 (D1), Predator_60 (H1), Puissant_62 (H1), Ranch_60 (DV), RazorC_60 (DV), Riduram_61 (DV), Rooney_70 (BN), Rukungu_63 (DV), Rumi_61 (DV), Sadboi_61 (DV), SassyC_75 (BN), ShakeNBake_70 (BN), SirHarley_54 (D1), Thoth_53 (D1), Thumb_62 (H1), Troll4_53 (D1), Visconti_54 (D1), WaldoWhy_55 (D1), Wentworth_70 (BN), Wilkos_72 (BN), Yara_66 (BN), Yikes_62 (DV),

Start 55:

- Found in 2 of 522 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tillicus_56 (DV),

Start 56:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_97 (GD3),

Start 57:

- Found in 13 of 522 (2.5%) of genes in pham
- Manual Annotations of this start: 8 of 442
- Called 61.5% of time when present
- Phage (with cluster) where this start called: Beyoncage_50 (DG1), BiteSize_50 (DG1), Djokovic_50 (DG1), LilyPad_52 (DG1), Madi_50 (DG1), Sienna_50 (DG1), Suzy_49 (DG1), Terapin_51 (DG1),

Start 58:

- Found in 17 of 522 (3.3%) of genes in pham
- Manual Annotations of this start: 8 of 442
- Called 58.8% of time when present
- Phage (with cluster) where this start called: BlueNGold_166 (DS), Boopy_169 (DS), Demikore_78 (U), Forza_170 (DS), Labelle_76 (U), Madruga_74 (U), Mareelih_167 (DS), Patience_76 (U), Sixama_168 (DS), SuperSonics_79 (U),

Start 59:

- Found in 29 of 522 (5.6%) of genes in pham
- Manual Annotations of this start: 12 of 442
- Called 89.7% of time when present
- Phage (with cluster) where this start called: Artu_93 (FC), Atuin_95 (FC), Bloom_105 (FC), BooTeria_97 (FC), Chilliams_99 (FC), DunneganBoMo_90 (FC), Ellewin_89 (FC), Emmetator_93 (FC), FloraSnap32_101 (FC), FrostedClock_104 (FC), GMA2_64 (DS), GoldenEssence_87 (FC), KSunshine22_95 (FC), Laure_105 (UNK), LeoJr_100 (FC), Mimi_101 (FC), Panchaali_92 (FC), Patbob_100 (FC), Phrampa_94 (FC), Racecar_102 (FC), ReginaGlobina_100 (FC), Rockabye_105 (FC), SJReid_105 (FC), Stewart25555_92 (FC), Talia1610_101 (FC), WaddleDee_88 (FC),

Start 60:

- Found in 39 of 522 (7.5%) of genes in pham
- Manual Annotations of this start: 35 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_39 (EF), Anakin_40 (EF), AnnaSerena_40 (EF), Annapurna_40 (EF), Artiphact_40 (EF), Chivey_40 (EF), CoolCookie_40 (EF), Crestdrop_40 (EF), Cybele_40 (EF), DannyDe_40 (EF), Dauntless_39 (EF), Erudite_39 (EF), FountainFog_39 (EF), FreddieHg_40 (EF), Gilda_40 (EF), Hager_41 (EF), Haunter_40 (EF), Hiddenleaf_40 (EF), JDawG_39 (EF), JingleBells_40 (EF), Karate_39 (EF), Kate_41 (EF), Krampus_40 (EF), MortySmith_38 (EF), NarutoRun_40 (EF), Neptune_40 (EF), OhDear_40 (EF), OverHedge_40 (EF), Pharpay_40 (EF), PhunaPhoke_40 (EF), Potty_40 (EF), Poultruss_39 (EF), Rachella_40 (EF), Rie18_40 (EF), SilentWarrior_40 (EF), Snakehole_40 (EF), Tedro_40 (EF), Tongui_40 (EF), Wollypog_43 (singleton),

Start 62:

- Found in 7 of 522 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 442
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Ajin_42 (EF), Bramble_42 (EF), Kors_42 (EF), LordBart_42 (EF), RikSengupta_42 (EF), Sparcetus_42 (EF),

Start 63:

- Found in 26 of 522 (5.0%) of genes in pham

- Manual Annotations of this start: 10 of 442
- Called 96.2% of time when present
- Phage (with cluster) where this start called: A3Wally_114 (GD1), Agamotto_38 (FR), AnnabelleLee_38 (FR), Audell_37 (FR), Big4_103 (GD2), CardboardBox_39 (FR), ChamoyPickle_40 (FR), ChipsNGuac_39 (FR), Dodo_114 (GD1), Erasmago_105 (GD2), Ezurina_37 (FR), Gerri43_39 (FR), GodonK_184 (DK), LastNadiia_40 (FR), Makima_38 (FR), Mireles_41 (FR), Neuville_38 (FR), PauloDiaboli_114 (GD1), Phendrix_173 (DK), Pumpernickel_111 (GD4), Roberts_38 (FR), Studio_40 (FR), TMaxx_39 (FR), TripleC_38 (FR), Zooman_98 (GD2),

Start 64:

- Found in 12 of 522 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Virizion_75 (BN),

Start 65:

- Found in 10 of 522 (1.9%) of genes in pham
- Manual Annotations of this start: 8 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_72 (EN), Cruella_72 (EN), Darwin_73 (EN), Gallia_72 (singleton), Kimchi1738_73 (EN), P1201_75 (singleton), PeteyPab_71 (EN), PotatoChip_72 (EN), Stickynote_71 (EN), Zion_72 (EN),

Start 66:

- Found in 45 of 522 (8.6%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 4.4% of time when present
- Phage (with cluster) where this start called: DumpTruck_58 (DV), Xenia2_58 (DV),

Start 79:

- Found in 33 of 522 (6.3%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 9.1% of time when present
- Phage (with cluster) where this start called: GTE8_60 (CR2), NatB6_72 (CR2), Wheezy_72 (CR2),

Start 86:

- Found in 12 of 522 (2.3%) of genes in pham
- Manual Annotations of this start: 9 of 442
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Benczkowski14_57 (CS4), Hollow_57 (CS4), Katyusha_57 (CS4), Niagara_57 (CS4), Philon9_57 (CS4), Teatealatte_58 (CS4), Teech_58 (CS4), Tredge_57 (CS4), Vitaenoi_57 (CS4),

Start 90:

- Found in 12 of 522 (2.3%) of genes in pham
- Manual Annotations of this start: 4 of 442
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Cuke_73 (AC), Fowlmouth_74 (AC), MrMiyagi_73 (AC), NosilaM_73 (CR2),

Start 92:

- Found in 20 of 522 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Demosthenes_55 (CS4), Kvothe_56 (CS4),

Start 96:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_65 (AC),

Start 104:

- Found in 5 of 522 (1.0%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amore2_62 (CS1), Austin_61 (CS1), GMA7_51 (CS1), GTE7_50 (CS1), HayZem_62 (CS1),

Start 106:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Magritte_46 (singleton),

Start 113:

- Found in 26 of 522 (5.0%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 11.5% of time when present
- Phage (with cluster) where this start called: BiPauneto_74 (CR4), Sukkupi_71 (CR4), Yndexa_71 (CR4),

Start 115:

- Found in 64 of 522 (12.3%) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Pemberton_73 (CR4),

Start 135:

- Found in 5 of 522 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 20.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_55 (CS4),

Start 143:

- Found in 66 of 522 (12.6%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 7.6% of time when present
- Phage (with cluster) where this start called: BillyBobJr_65 (CS2), Charianelly_57 (CS3), CinnamonToast_65 (CS2), Eggsie_57 (CS2), Woes_57 (CS3),

Start 161:

- Found in 3 of 522 (0.6%) of genes in pham

- Manual Annotations of this start: 1 of 442
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Luker_58 (CS3),

Start 162:

- Found in 41 of 522 (7.9%) of genes in pham
- Manual Annotations of this start: 28 of 442
- Called 73.2% of time when present
- Phage (with cluster) where this start called: Adgers_62 (CS2), Barbochs_57 (CS2), Beaver_62 (CS2), BigShaq_59 (CS2), BirksAndSocks_64 (CS2), Boneham_63 (CS2), Breezic_59 (CS2), Butterball_62 (CS2), CathyBurgh_59 (CS2), Ekhein_59 (CS2), Exiguo_58 (CS2), FelixAlejandro_64 (CS2), Flakey_58 (CS2), Gorko_58 (CS2), GourdThymes_59 (CS2), Hotorobo_59 (CS2), Jellybones_61 (CS2), John316_62 (CS2), Kelzog_61 (CS2), Lizzo_59 (CS2), Monty_58 (CS2), Msay19_64 (CS2), Poland_64 (CS2), RemRem_60 (CS2), RoyalG_59 (CS2), Sam12_58 (CS2), Sombrero_60 (CS2), Squibbles_58 (CS2), SteveFrench_58 (CS2), Worcestershire_59 (CS2),

Start 169:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_76 (singleton),

Start 177:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PokyPuppy_58 (CS2),

Start 181:

- Found in 3 of 522 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gmala1_55 (DF1), GordDuk1_59 (DF1), GordTnk2_60 (DF1),

Start 185:

- Found in 5 of 522 (1.0%) of genes in pham
- Manual Annotations of this start: 5 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibbles_56 (CX), Kampe_58 (CX), Orchid_57 (CX), PatrickStar_58 (CX), RobinSparkles_61 (CX),

Start 190:

- Found in 8 of 522 (1.5%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Camerico_63 (DF4), DocB7_048 (singleton), GMA3_58 (DF2), Jumbo_57 (DF3), Mbo2_52 (singleton), Reynauld_56 (CH), Srilaccoli3_51 (CH),

Start 191:

- Found in 10 of 522 (1.9%) of genes in pham
- Manual Annotations of this start: 9 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_64 (R), MontyDev_68 (R), Nilo_68 (R), Papyrus_66 (R), Riparian_68 (R), Rope_66 (R), Send513_66 (R), Weiss13_66 (R), Yelo_65 (R), Zenon_68 (R),

Start 203:

- Found in 75 of 522 (14.4%) of genes in pham
- Manual Annotations of this start: 73 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_29 (AK), Aledel_26 (AK), AppleCider_29 (AK), AustinPowers_26 (AK), Beethoven_29 (AK), Bennie_25 (AK), BigMack_25 (AK), Bodacious_25 (AK), BrotherBLo_29 (AK), Canowicakte_29 (AK), Carpal_29 (AK), ChewChew_25 (AK), Cholula_29 (AK), Chridison_26 (AK), Christian_25 (AK), CristinaYang_25 (AK), Daiboju_26 (AK), DrRobert_25 (AK), DreamTeam_25 (AK), EstebanJulior_26 (AK), Eunoia_26 (AK), Fluke_29 (AK), Gisselle_25 (AK), Glenn_29 (AK), Graynor_30 (AK), GreenHearts_29 (AK), Greenhouse_29 (AK), Herb_26 (AK), HunterDalle_26 (AK), Huntingdon_29 (AK), Joann_29 (AK), Jumboset_29 (AK), Kalizoi_29 (AK), KingBob_26 (AK), Kittykat_25 (AK), Korra_30 (AK), Lakshmi_29 (AK), LilStuart_25 (AK), Litotes_29 (AK), Lucy_25 (AK), Makoto_25 (AK), MamaPearl_26 (AK), Maria1952_26 (AK), MeganNoll_29 (AK), Misaeng_29 (AK), Moki_25 (AK), MrBoss_30 (AK), Nancia_25 (AK), Nubia_29 (AK), OMalley_26 (AK), Oxyntrius_29 (AK), PartyCup_29 (AK), PinkFriday_25 (AK), PitaDog_25 (AK), Potatoes_29 (AK), Preamble_25 (AK), Pumancara_25 (AK), RAP15_29 (AK), RcigaStruga_29 (AK), Riovina_26 (AK), Riverdale_29 (AK), Rozby_29 (AK), Savage2526_29 (AK), Scuttle_29 (AK), Sergei_26 (AK), Suppi_29 (AK), TattModd_29 (AK), Temper16_26 (AK), Urla_26 (AK), Vallejo_29 (AK), Vulture_26 (AK), Wawa_29 (AK), Wayne_29 (AK), WonderBoy_25 (AK), Zorro_29 (AK),

Start 204:

- Found in 1 of 522 (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: Parvaparticeps_24 (UNK),

Start 205:

- Found in 10 of 522 (1.9%) of genes in pham
- Manual Annotations of this start: 5 of 442
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Alone3_128 (BS), BRock_117 (BS), Beleetus_123 (BS), FireCastle_33 (EJ), Garnacho_117 (BS), LuckySocke_124 (BS),

Start 206:

- Found in 8 of 522 (1.5%) of genes in pham
- Manual Annotations of this start: 7 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adelaide_46 (EP), Dina_47 (EP), Lederberg_45 (EP), PorkBelly_54 (FJ), SamW_45 (EP), StAB_50 (EP), Stiles_49 (EP), Troy_45 (EP),

Start 207:

- Found in 25 of 522 (4.8%) of genes in pham
- Manual Annotations of this start: 19 of 442
- Called 92.0% of time when present
- Phage (with cluster) where this start called: Alove_33 (EJ), AyoTeo_35 (EJ), Benry_32 (EJ), Cicada_35 (EJ), GiJojo_116 (BS), Goodman_34 (EJ), Htur_33 (EJ), IndiRoo_33 (EJ), Jera_34 (EJ), Johann_34 (EJ), Labella_35 (EJ), Linayshia_33 (EJ), Milani_33 (EJ), Olympi_35 (EJ), PermaG_34 (EJ), Rasovi_33 (EJ), Rootkit7_33 (EJ), SBlackberry_33 (EJ), Sucha_30 (EJ), Theresita_31 (EA7), TurboVicky_33 (EJ), Typher_35 (EJ), Zanella_33 (EJ),

Start 209:

- Found in 14 of 522 (2.7%) of genes in pham
- Manual Annotations of this start: 13 of 442
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Araceli_42 (BH), Archimedes_37 (DA), Bogota_43 (BH), Crosby_42 (BH), Henoccus_42 (BH), Intolerant_41 (BH), JackieB_42 (BH), LazerLemon_42 (BH), Microdon_41 (BH), Sapō_34 (DA), Shynx_42 (BH), Stuff_42 (BH), UNTPL_44 (BH),

Start 210:

- Found in 1 of 522 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LuckyBarnes_64 (singleton),

Start 211:

- Found in 14 of 522 (2.7%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 21.4% of time when present
- Phage (with cluster) where this start called: Frizzle_34 (DA), Ghobes_35 (DA), Marky_44 (BH),

Start 215:

- Found in 68 of 522 (13.0%) of genes in pham
- Manual Annotations of this start: 28 of 442
- Called 42.6% of time when present
- Phage (with cluster) where this start called: Anamika_57 (CS3), BenoitCattle_59 (CS2), Berries_57 (CS3), Bianmat_57 (CS3), Chelms_59 (CS2), Crete_60 (CS2), Dakiti_60 (CS2), Damp_57 (CS3), Diabla_63 (CS2), GalacticEye_57 (CS3), Guillaume_57 (CS3), Hail2Pitt_56 (CS3), Harambe_57 (CS3), Hello_57 (CS3), Jams_57 (CS3), Jormungandr_57 (CS3), Kaseim_57 (CS3), Lahirium_57 (CS3), Lidong_57 (CS3), Linetti_59 (CS2), Minos_58 (CS3), MrWormie_57 (CS3), Neevie_57 (CS3), Newt_58 (CS3), Nimi13_57 (CS3), PierreThree_58 (CS2), Shelley_57 (CS3), Sticker17_57 (CS3), Teal_57 (CS3),

Start 225:

- Found in 20 of 522 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Talos_127 (BS),

Start 226:

- Found in 11 of 522 (2.1%) of genes in pham

- No Manual Annotations of this start.
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Park1214_131 (BS),

Start 229:

- Found in 28 of 522 (5.4%) of genes in pham
- No Manual Annotations of this start.
- Called 3.6% of time when present
- Phage (with cluster) where this start called: Fudan_126 (BS),

Summary by clusters:

There are 49 clusters represented in this pham: GD1, GD2, GD3, GD4, DK, BN, BH, singleton, DA, FC, BS, DV, DG1, DS, CH, FR, DF1, DF3, DF2, CS4, CS1, CS3, CS2, AC, EN, AE, EJ, AK, EF, DG2, R, U, FJ, UNK, EP, EA7, CR2, CR3, CR1, CR6, CR7, CR4, CR5, H2, H1, CX, DF4, D2, D1,

Info for manual annotations of cluster AC:

- Start number 90 was manually annotated 3 times for cluster AC.
- Start number 96 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:

- Start number 54 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster AK:

- Start number 203 was manually annotated 73 times for cluster AK.

Info for manual annotations of cluster BH:

- Start number 209 was manually annotated 11 times for cluster BH.
- Start number 211 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BN:

- Start number 48 was manually annotated 1 time for cluster BN.
- Start number 54 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster BS:

- Start number 205 was manually annotated 4 times for cluster BS.
- Start number 207 was manually annotated 1 time for cluster BS.
- Start number 225 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster CH:

- Start number 190 was manually annotated 1 time for cluster CH.

Info for manual annotations of cluster CR1:

- Start number 35 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 35 was manually annotated 18 times for cluster CR2.
- Start number 79 was manually annotated 2 times for cluster CR2.
- Start number 90 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 35 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 35 was manually annotated 5 times for cluster CR4.
- Start number 113 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 35 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 36 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 38 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CS1:

- Start number 104 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 143 was manually annotated 1 time for cluster CS2.
- Start number 162 was manually annotated 28 times for cluster CS2.
- Start number 177 was manually annotated 1 time for cluster CS2.
- Start number 215 was manually annotated 6 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 143 was manually annotated 2 times for cluster CS3.
- Start number 161 was manually annotated 1 time for cluster CS3.
- Start number 215 was manually annotated 22 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 86 was manually annotated 9 times for cluster CS4.
- Start number 92 was manually annotated 2 times for cluster CS4.
- Start number 135 was manually annotated 1 time for cluster CS4.

Info for manual annotations of cluster CX:

- Start number 185 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster D1:

- Start number 43 was manually annotated 1 time for cluster D1.
- Start number 54 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 50 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DA:

- Start number 209 was manually annotated 2 times for cluster DA.
- Start number 211 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DF3:

- Start number 190 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:

- Start number 190 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DG1:

- Start number 57 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 54 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DK:

- Start number 63 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 58 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster DV:

- Start number 53 was manually annotated 13 times for cluster DV.
- Start number 54 was manually annotated 21 times for cluster DV.
- Start number 55 was manually annotated 1 time for cluster DV.
- Start number 66 was manually annotated 2 times for cluster DV.

Info for manual annotations of cluster EA7:

- Start number 207 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EF:

- Start number 28 was manually annotated 1 time for cluster EF.
- Start number 60 was manually annotated 34 times for cluster EF.
- Start number 62 was manually annotated 6 times for cluster EF.

Info for manual annotations of cluster EJ:

- Start number 205 was manually annotated 1 time for cluster EJ.
- Start number 207 was manually annotated 17 times for cluster EJ.

Info for manual annotations of cluster EN:

- Start number 65 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster EP:

- Start number 206 was manually annotated 7 times for cluster EP.

Info for manual annotations of cluster FC:

- Start number 59 was manually annotated 12 times for cluster FC.

Info for manual annotations of cluster FR:

- Start number 63 was manually annotated 3 times for cluster FR.

Info for manual annotations of cluster GD1:

- Start number 63 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 63 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 56 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 63 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster H1:

- Start number 54 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 48 was manually annotated 1 time for cluster H2.
- Start number 51 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster R:

- Start number 191 was manually annotated 9 times for cluster R.

Info for manual annotations of cluster U:

- Start number 58 was manually annotated 3 times for cluster U.

Gene Information:

Gene: A3Wally_114 Start: 79188, Stop: 77338, Start Num: 63

Candidate Starts for A3Wally_114:

(41, 79257), (42, 79251), (Start: 63 @79188 has 10 MA's), (75, 79143), (Start: 79 @79131 has 2 MA's), (134, 79005), (163, 78942), (Start: 215 @78867 has 28 MA's), (249, 78759), (256, 78741), (276, 78672), (287, 78645), (334, 78585), (376, 78420), (409, 78276), (440, 78189), (450, 78162), (461, 78126), (463, 78117), (499, 78060), (500, 78054), (512, 78009), (516, 77997), (526, 77976), (535, 77952), (552, 77916), (573, 77871), (607, 77787), (608, 77784), (610, 77778), (632, 77715), (658, 77613), (680, 77526), (688, 77484), (701, 77433),

Gene: ASerpRocky_55 Start: 52672, Stop: 51098, Start Num: 135

Candidate Starts for ASerpRocky_55:

(Start: 86 @52804 has 9 MA's), (Start: 92 @52792 has 2 MA's), (126, 52693), (Start: 135 @52672 has 1 MA's), (168, 52606), (217, 52507), (227, 52471), (229, 52447), (232, 52438), (235, 52429), (254, 52381), (262, 52357), (279, 52315), (286, 52300), (353, 52225), (375, 52165), (376, 52162), (395, 52096), (396, 52093), (403, 52057), (404, 52054), (408, 52027), (411, 52015), (421, 51967), (431, 51934), (438, 51910), (447, 51886), (456, 51862), (472, 51796), (503, 51697), (547, 51598), (583, 51565), (585, 51562), (641, 51445), (643, 51442), (657, 51385), (660, 51367), (687, 51250), (688, 51247), (691, 51235), (727, 51136), (737, 51115),

Gene: Adelaide_46 Start: 37262, Stop: 38638, Start Num: 206

Candidate Starts for Adelaide_46:

(Start: 206 @37262 has 7 MA's), (Start: 225 @37331 has 1 MA's), (228, 37349), (261, 37442), (283, 37502), (286, 37508), (287, 37511), (373, 37631), (379, 37649), (406, 37766), (464, 37904), (475, 37943), (490, 37976), (492, 37982), (499, 37997), (506, 38036), (532, 38096), (542, 38120), (584, 38156), (613, 38225), (616, 38231), (643, 38312), (666, 38408), (669, 38420), (673, 38432), (684, 38489), (687, 38495), (690, 38507), (697, 38537), (711, 38588),

Gene: Adgers_62 Start: 52192, Stop: 50660, Start Num: 162

Candidate Starts for Adgers_62:

(69, 52447), (81, 52396), (121, 52291), (131, 52261), (Start: 143 @52228 has 3 MA's), (149, 52219), (Start: 162 @52192 has 28 MA's), (227, 52024), (235, 51982), (242, 51964), (254, 51934), (258,

51922), (262, 51910), (263, 51904), (269, 51883), (377, 51715), (402, 51628), (403, 51613), (405, 51601), (411, 51571), (447, 51442), (459, 51400), (465, 51382), (466, 51379), (468, 51370), (472, 51352), (503, 51265), (585, 51130), (589, 51115), (595, 51094), (641, 51013), (643, 51010), (657, 50953), (658, 50947), (660, 50935), (675, 50884), (680, 50860), (687, 50821), (690, 50809), (691, 50806), (718, 50713), (727, 50698),

Gene: Adjutor_52 Start: 39669, Stop: 41612, Start Num: 54

Candidate Starts for Adjutor_52:

(Start: 54 @39669 has 63 MA's), (69, 39696), (94, 39768), (114, 39822), (136, 39882), (141, 39900), (145, 39909), (176, 39960), (196, 40002), (214, 40038), (235, 40125), (272, 40218), (277, 40233), (286, 40254), (328, 40356), (340, 40389), (347, 40413), (370, 40473), (393, 40560), (409, 40635), (445, 40725), (461, 40776), (462, 40779), (495, 40869), (500, 40887), (506, 40920), (530, 40974), (534, 40986), (542, 41004), (583, 41067), (604, 41151), (642, 41268), (649, 41316), (666, 41379), (684, 41463),

Gene: Aesir_39 Start: 25591, Stop: 27498, Start Num: 60

Candidate Starts for Aesir_39:

(18, 25417), (Start: 60 @25591 has 35 MA's), (85, 25654), (97, 25675), (115, 25729), (182, 25864), (202, 25906), (219, 25951), (276, 26125), (279, 26134), (318, 26224), (329, 26266), (331, 26281), (384, 26467), (423, 26602), (425, 26614), (444, 26647), (473, 26740), (500, 26776), (531, 26866), (542, 26893), (649, 27202), (650, 27205), (665, 27265), (685, 27355), (694, 27385), (704, 27427), (722, 27478),

Gene: Agamotto_38 Start: 29155, Stop: 27347, Start Num: 63

Candidate Starts for Agamotto_38:

(45, 29200), (Start: 63 @29155 has 10 MA's), (Start: 79 @29095 has 2 MA's), (111, 29032), (175, 28894), (Start: 225 @28777 has 1 MA's), (227, 28765), (257, 28681), (340, 28543), (380, 28357), (403, 28264), (406, 28243), (463, 28072), (468, 28057), (500, 28009), (537, 27940), (540, 27934), (546, 27919), (569, 27880), (572, 27871), (579, 27853), (591, 27817), (592, 27814), (597, 27796), (606, 27778), (607, 27775), (652, 27622), (660, 27589), (668, 27562), (674, 27541), (680, 27514), (700, 27424), (714, 27373),

Gene: Aikoy_65 Start: 45786, Stop: 47714, Start Num: 54

Candidate Starts for Aikoy_65:

(Start: 54 @45786 has 63 MA's), (67, 45807), (74, 45837), (Start: 113 @45936 has 3 MA's), (136, 45999), (173, 46071), (178, 46080), (202, 46128), (277, 46344), (286, 46365), (295, 46386), (298, 46389), (307, 46401), (317, 46428), (355, 46551), (370, 46587), (385, 46659), (390, 46668), (402, 46701), (411, 46758), (414, 46770), (445, 46839), (447, 46848), (454, 46866), (461, 46890), (497, 46986), (500, 46998), (506, 47031), (525, 47073), (552, 47136), (599, 47241), (659, 47457), (665, 47481), (666, 47484), (678, 47526), (683, 47556), (689, 47580), (731, 47697),

Gene: Ajin_42 Start: 26641, Stop: 28575, Start Num: 62

Candidate Starts for Ajin_42:

(14, 26401), (Start: 28 @26545 has 1 MA's), (Start: 58 @26635 has 8 MA's), (Start: 62 @26641 has 6 MA's), (115, 26788), (120, 26806), (124, 26815), (202, 26965), (243, 27091), (276, 27181), (279, 27190), (318, 27280), (329, 27322), (335, 27352), (376, 27484), (425, 27670), (436, 27688), (444, 27703), (461, 27760), (480, 27820), (517, 27892), (587, 28030), (602, 28096), (606, 28126), (633, 28204), (650, 28282), (665, 28342), (677, 28381), (685, 28432), (691, 28450), (724, 28558),

Gene: Albanese_29 Start: 22144, Stop: 23535, Start Num: 203

Candidate Starts for Albanese_29:

(Start: 203 @22144 has 73 MA's), (228, 22231), (259, 22303), (260, 22306), (283, 22369), (285, 22372), (292, 22390), (336, 22396), (350, 22423), (378, 22480), (386, 22531), (402, 22570), (406,

22606), (410, 22624), (417, 22660), (423, 22681), (427, 22699), (440, 22732), (457, 22771), (467, 22813), (474, 22840), (482, 22864), (499, 22900), (500, 22906), (506, 22939), (513, 22954), (516, 22963), (535, 23008), (550, 23041), (552, 23044), (608, 23128), (615, 23149), (620, 23161), (626, 23179), (649, 23269), (656, 23290), (657, 23293), (662, 23317), (663, 23326), (684, 23413), (709, 23503), (717, 23527),

Gene: Aledel_26 Start: 21745, Stop: 23139, Start Num: 203

Candidate Starts for Aledel_26:

(Start: 203 @21745 has 73 MA's), (220, 21802), (252, 21889), (259, 21907), (260, 21910), (292, 21994), (350, 22027), (374, 22078), (378, 22084), (391, 22144), (402, 22174), (406, 22210), (410, 22228), (423, 22285), (427, 22303), (430, 22309), (440, 22336), (467, 22417), (474, 22444), (482, 22468), (490, 22483), (500, 22510), (506, 22543), (513, 22558), (591, 22690), (606, 22726), (615, 22753), (620, 22765), (626, 22783), (649, 22873), (651, 22879), (656, 22894), (657, 22897), (663, 22930), (680, 22990), (684, 23017), (700, 23074), (709, 23107), (717, 23131),

Gene: Alephilan_60 Start: 40725, Stop: 42638, Start Num: 54

Candidate Starts for Alephilan_60:

(19, 40599), (21, 40608), (22, 40620), (33, 40653), (Start: 53 @40722 has 13 MA's), (Start: 54 @40725 has 63 MA's), (Start: 66 @40737 has 2 MA's), (78, 40785), (93, 40818), (155, 40977), (173, 41004), (178, 41013), (214, 41085), (252, 41202), (255, 41205), (274, 41268), (286, 41295), (314, 41358), (322, 41385), (368, 41514), (376, 41538), (383, 41580), (400, 41628), (403, 41649), (406, 41670), (423, 41727), (427, 41745), (445, 41781), (458, 41823), (476, 41883), (506, 41979), (508, 41982), (613, 42210), (642, 42300), (649, 42336), (651, 42342), (665, 42396), (677, 42435), (699, 42537), (703, 42552), (709, 42573),

Gene: Alone3_128 Start: 69071, Stop: 70642, Start Num: 205

Candidate Starts for Alone3_128:

(Start: 205 @69071 has 5 MA's), (226, 69152), (229, 69176), (258, 69242), (292, 69323), (354, 69389), (378, 69455), (379, 69464), (402, 69542), (409, 69593), (435, 69695), (441, 69716), (443, 69719), (458, 69770), (459, 69779), (463, 69794), (467, 69806), (480, 69854), (488, 69869), (607, 70139), (611, 70151), (620, 70175), (645, 70262), (668, 70367), (693, 70487), (694, 70499), (709, 70556), (712, 70568), (714, 70574), (737, 70622),

Gene: Alove_33 Start: 23258, Stop: 24685, Start Num: 207

Candidate Starts for Alove_33:

(188, 23216), (Start: 207 @23258 has 19 MA's), (361, 23576), (403, 23723), (406, 23744), (480, 24011), (500, 24059), (502, 24080), (525, 24137), (538, 24170), (554, 24206), (608, 24284), (615, 24305), (642, 24386), (643, 24389), (663, 24476), (668, 24488), (679, 24527), (684, 24563), (687, 24569), (690, 24581), (706, 24644),

Gene: Alyssamiracle_63 Start: 39828, Stop: 41744, Start Num: 53

Candidate Starts for Alyssamiracle_63:

(Start: 53 @39828 has 13 MA's), (Start: 54 @39831 has 63 MA's), (Start: 66 @39843 has 2 MA's), (78, 39891), (93, 39924), (155, 40083), (173, 40110), (178, 40119), (214, 40191), (255, 40311), (274, 40374), (314, 40464), (322, 40491), (368, 40620), (376, 40644), (383, 40686), (385, 40698), (393, 40713), (400, 40734), (403, 40755), (406, 40776), (423, 40833), (427, 40851), (445, 40887), (458, 40929), (476, 40989), (506, 41085), (508, 41088), (598, 41265), (613, 41316), (642, 41406), (649, 41442), (651, 41448), (665, 41502), (677, 41541), (699, 41643), (703, 41658), (709, 41679),

Gene: Amore2_62 Start: 52713, Stop: 51082, Start Num: 104

Candidate Starts for Amore2_62:

(Start: 104 @52713 has 3 MA's), (109, 52701), (127, 52650), (129, 52644), (157, 52587), (227, 52446), (235, 52404), (239, 52392), (254, 52356), (255, 52353), (263, 52326), (279, 52290), (285, 52278),

(292, 52263), (371, 52155), (402, 52050), (403, 52035), (431, 51912), (447, 51864), (456, 51840), (459, 51822), (472, 51774), (491, 51723), (503, 51687), (510, 51669), (585, 51552), (609, 51501), (634, 51459), (649, 51399), (660, 51357), (675, 51306), (680, 51282), (727, 51120), (737, 51099),

Gene: Anakin_40 Start: 25911, Stop: 27818, Start Num: 60

Candidate Starts for Anakin_40:

(Start: 60 @25911 has 35 MA's), (85, 25974), (97, 25995), (115, 26049), (202, 26226), (219, 26271), (276, 26445), (279, 26454), (318, 26544), (331, 26601), (384, 26787), (423, 26922), (425, 26934), (444, 26967), (500, 27096), (542, 27213), (592, 27288), (649, 27522), (650, 27525), (665, 27585), (685, 27675), (694, 27705), (704, 27747), (722, 27798),

Gene: Anamika_57 Start: 52887, Stop: 51475, Start Num: 215

Candidate Starts for Anamika_57:

(69, 53235), (112, 53106), (142, 53019), (Start: 143 @53016 has 3 MA's), (Start: 215 @52887 has 28 MA's), (227, 52842), (254, 52752), (255, 52749), (257, 52743), (263, 52722), (292, 52659), (371, 52551), (377, 52533), (402, 52446), (403, 52431), (411, 52389), (431, 52308), (447, 52260), (459, 52218), (465, 52200), (466, 52197), (472, 52170), (491, 52119), (503, 52083), (524, 52032), (585, 51948), (591, 51927), (657, 51771), (658, 51765), (660, 51753), (690, 51627), (727, 51513),

Gene: AnnaSerena_40 Start: 25946, Stop: 27853, Start Num: 60

Candidate Starts for AnnaSerena_40:

(Start: 60 @25946 has 35 MA's), (85, 26009), (97, 26030), (115, 26084), (202, 26261), (219, 26306), (276, 26480), (279, 26489), (318, 26579), (331, 26636), (384, 26822), (423, 26957), (425, 26969), (444, 27002), (500, 27131), (542, 27248), (592, 27323), (649, 27557), (650, 27560), (665, 27620), (685, 27710), (694, 27740), (704, 27782), (722, 27833),

Gene: AnnabelLee_38 Start: 26373, Stop: 24541, Start Num: 63

Candidate Starts for AnnabelLee_38:

(Start: 63 @26373 has 10 MA's), (Start: 79 @26316 has 2 MA's), (175, 26115), (227, 25980), (273, 25845), (281, 25818), (340, 25761), (344, 25746), (361, 25692), (376, 25596), (378, 25590), (380, 25575), (391, 25530), (403, 25482), (406, 25461), (410, 25443), (425, 25392), (460, 25299), (463, 25287), (500, 25224), (529, 25152), (558, 25092), (569, 25071), (592, 25005), (597, 24987), (606, 24969), (607, 24966), (620, 24930), (649, 24822), (652, 24813), (668, 24753), (680, 24705),

Gene: Annapurna_40 Start: 25220, Stop: 27127, Start Num: 60

Candidate Starts for Annapurna_40:

(18, 25046), (Start: 60 @25220 has 35 MA's), (85, 25283), (97, 25304), (115, 25358), (182, 25493), (202, 25535), (219, 25580), (276, 25754), (279, 25763), (318, 25853), (329, 25895), (331, 25910), (384, 26096), (423, 26231), (425, 26243), (444, 26276), (500, 26405), (542, 26522), (643, 26795), (650, 26834), (665, 26894), (685, 26984), (694, 27014), (704, 27056), (722, 27107),

Gene: Apeppi_55 Start: 40047, Stop: 41966, Start Num: 54

Candidate Starts for Apeppi_55:

(20, 39927), (23, 39948), (30, 39969), (42, 39999), (47, 40032), (Start: 53 @40044 has 13 MA's), (Start: 54 @40047 has 63 MA's), (Start: 66 @40062 has 2 MA's), (70, 40077), (78, 40110), (93, 40143), (95, 40146), (Start: 113 @40194 has 3 MA's), (117, 40212), (155, 40302), (166, 40320), (173, 40329), (178, 40338), (214, 40410), (255, 40530), (256, 40533), (274, 40593), (282, 40611), (314, 40683), (322, 40710), (370, 40845), (376, 40863), (383, 40905), (390, 40926), (393, 40932), (403, 40974), (406, 40995), (411, 41016), (423, 41052), (458, 41151), (460, 41160), (476, 41211), (506, 41307), (508, 41310), (579, 41421), (598, 41487), (604, 41511), (613, 41538), (660, 41706), (665, 41724), (672, 41748), (677, 41763), (678, 41769), (684, 41811), (689, 41826), (699, 41865), (703, 41880), (709, 41901), (735, 41958),

Gene: Apiary_72 Start: 53146, Stop: 51110, Start Num: 36

Candidate Starts for Apiary_72:

(13, 53314), (Start: 36 @53146 has 6 MA's), (Start: 57 @53080 has 8 MA's), (72, 53038), (201, 52753), (224, 52696), (235, 52645), (243, 52630), (276, 52540), (281, 52528), (318, 52435), (344, 52363), (370, 52294), (385, 52222), (403, 52165), (461, 51985), (468, 51961), (488, 51898), (500, 51862), (530, 51775), (592, 51643), (600, 51604), (601, 51601), (607, 51556), (649, 51409), (666, 51346), (678, 51304), (684, 51265), (692, 51241),

Gene: AppleCider_29 Start: 22130, Stop: 23524, Start Num: 203

Candidate Starts for AppleCider_29:

(Start: 203 @22130 has 73 MA's), (220, 22187), (259, 22292), (292, 22379), (374, 22463), (377, 22466), (378, 22469), (402, 22559), (406, 22595), (408, 22604), (423, 22670), (427, 22688), (440, 22721), (446, 22733), (467, 22802), (474, 22829), (482, 22853), (499, 22889), (500, 22895), (506, 22928), (513, 22943), (516, 22952), (578, 23042), (606, 23111), (615, 23138), (621, 23156), (626, 23168), (649, 23258), (651, 23264), (654, 23273), (656, 23279), (663, 23315), (684, 23402), (698, 23453), (709, 23492), (717, 23516),

Gene: Araceli_42 Start: 30875, Stop: 32269, Start Num: 209

Candidate Starts for Araceli_42:

(Start: 209 @30875 has 13 MA's), (Start: 211 @30878 has 3 MA's), (227, 30953), (231, 30977), (254, 31007), (255, 31010), (259, 31022), (268, 31055), (341, 31112), (352, 31136), (374, 31181), (378, 31187), (391, 31247), (399, 31268), (408, 31322), (433, 31421), (440, 31448), (444, 31457), (480, 31583), (500, 31631), (502, 31652), (506, 31664), (513, 31679), (525, 31709), (538, 31742), (542, 31751), (582, 31793), (607, 31859), (608, 31862), (615, 31883), (621, 31901), (629, 31919), (643, 31973), (649, 32003), (663, 32060), (665, 32063), (679, 32111), (690, 32165), (708, 32234), (713, 32252),

Gene: Archimedes_37 Start: 33084, Stop: 31684, Start Num: 209

Candidate Starts for Archimedes_37:

(Start: 209 @33084 has 13 MA's), (217, 33042), (227, 33006), (229, 32988), (231, 32982), (254, 32952), (259, 32937), (260, 32934), (292, 32850), (407, 32628), (410, 32616), (440, 32502), (480, 32376), (486, 32364), (496, 32343), (497, 32340), (500, 32328), (506, 32295), (513, 32280), (523, 32256), (538, 32220), (542, 32211), (606, 32112), (626, 32055), (630, 32043), (632, 32037), (654, 31950), (659, 31929), (663, 31908), (687, 31815), (718, 31689),

Gene: Arti_71 Start: 55496, Stop: 53430, Start Num: 35

Candidate Starts for Arti_71:

(8, 55700), (9, 55688), (12, 55670), (Start: 35 @55496 has 34 MA's), (Start: 79 @55358 has 2 MA's), (88, 55334), (178, 55130), (201, 55085), (235, 54977), (279, 54863), (281, 54860), (318, 54770), (320, 54767), (342, 54707), (383, 54569), (388, 54551), (398, 54527), (427, 54404), (461, 54299), (500, 54173), (515, 54119), (580, 53993), (583, 53984), (591, 53960), (604, 53888), (607, 53882), (617, 53852), (634, 53795), (649, 53735), (666, 53672), (684, 53591),

Gene: Artiphact_40 Start: 25935, Stop: 27842, Start Num: 60

Candidate Starts for Artiphact_40:

(Start: 60 @25935 has 35 MA's), (85, 25998), (97, 26019), (115, 26073), (202, 26250), (219, 26295), (276, 26469), (279, 26478), (318, 26568), (331, 26625), (384, 26811), (423, 26946), (425, 26958), (444, 26991), (500, 27120), (542, 27237), (592, 27312), (649, 27546), (650, 27549), (665, 27609), (685, 27699), (694, 27729), (704, 27771), (722, 27822),

Gene: Artu_93 Start: 77224, Stop: 79068, Start Num: 59

Candidate Starts for Artu_93:

(Start: 59 @77224 has 12 MA's), (167, 77497), (227, 77605), (250, 77671), (273, 77740), (275, 77749), (340, 77824), (411, 78133), (424, 78178), (443, 78217), (450, 78238), (463, 78283), (499, 78340), (500, 78346), (506, 78379), (512, 78391), (516, 78403), (569, 78520), (571, 78526), (606, 78616), (617, 78649), (643, 78733), (666, 78826), (673, 78850), (713, 79018), (714, 79021),

Gene: Astralis_60 Start: 39409, Stop: 41322, Start Num: 54

Candidate Starts for Astralis_60:

(Start: 53 @39406 has 13 MA's), (Start: 54 @39409 has 63 MA's), (Start: 66 @39421 has 2 MA's), (78, 39469), (93, 39502), (155, 39661), (173, 39688), (178, 39697), (214, 39769), (255, 39889), (274, 39952), (314, 40042), (322, 40069), (368, 40198), (376, 40222), (383, 40264), (385, 40276), (393, 40291), (400, 40312), (403, 40333), (406, 40354), (423, 40411), (427, 40429), (445, 40465), (458, 40507), (476, 40567), (506, 40663), (508, 40666), (598, 40843), (613, 40894), (642, 40984), (649, 41020), (651, 41026), (665, 41080), (677, 41119), (699, 41221), (703, 41236), (709, 41257),

Gene: Atuin_95 Start: 80621, Stop: 82477, Start Num: 59

Candidate Starts for Atuin_95:

(Start: 59 @80621 has 12 MA's), (167, 80894), (227, 80999), (268, 81122), (273, 81134), (275, 81143), (345, 81239), (365, 81314), (376, 81374), (411, 81527), (424, 81572), (450, 81632), (463, 81677), (499, 81734), (500, 81740), (506, 81773), (512, 81785), (516, 81797), (569, 81914), (570, 81917), (592, 81974), (606, 82010), (610, 82022), (617, 82043), (643, 82127), (666, 82220), (673, 82244), (713, 82412), (714, 82415),

Gene: Audell_37 Start: 28742, Stop: 26934, Start Num: 63

Candidate Starts for Audell_37:

(Start: 63 @28742 has 10 MA's), (Start: 79 @28682 has 2 MA's), (111, 28619), (171, 28487), (175, 28481), (Start: 225 @28364 has 1 MA's), (227, 28352), (257, 28268), (340, 28130), (380, 27944), (403, 27851), (406, 27830), (409, 27818), (463, 27659), (468, 27644), (478, 27614), (500, 27596), (537, 27527), (540, 27521), (546, 27506), (562, 27479), (569, 27467), (572, 27458), (579, 27440), (591, 27404), (592, 27401), (597, 27383), (606, 27365), (607, 27362), (652, 27209), (660, 27176), (668, 27149), (674, 27128), (680, 27101), (700, 27011), (714, 26960),

Gene: Austin_61 Start: 52711, Stop: 51080, Start Num: 104

Candidate Starts for Austin_61:

(Start: 104 @52711 has 3 MA's), (109, 52699), (127, 52648), (129, 52642), (157, 52585), (227, 52444), (235, 52402), (239, 52390), (254, 52354), (255, 52351), (263, 52324), (279, 52288), (285, 52276), (292, 52261), (371, 52153), (402, 52048), (403, 52033), (431, 51910), (447, 51862), (456, 51838), (459, 51820), (472, 51772), (491, 51721), (503, 51685), (510, 51667), (585, 51550), (609, 51499), (634, 51457), (649, 51397), (660, 51355), (675, 51304), (680, 51280), (727, 51118), (737, 51097),

Gene: AustinPowers_26 Start: 21746, Stop: 23140, Start Num: 203

Candidate Starts for AustinPowers_26:

(Start: 203 @21746 has 73 MA's), (220, 21803), (252, 21890), (259, 21908), (260, 21911), (292, 21995), (350, 22028), (374, 22079), (378, 22085), (391, 22145), (402, 22175), (406, 22211), (410, 22229), (417, 22265), (423, 22286), (427, 22304), (430, 22310), (440, 22337), (467, 22418), (474, 22445), (482, 22469), (490, 22484), (500, 22511), (506, 22544), (513, 22559), (606, 22727), (615, 22754), (620, 22766), (626, 22784), (649, 22874), (651, 22880), (656, 22895), (657, 22898), (680, 22991), (684, 23018), (700, 23075), (709, 23108), (717, 23132),

Gene: Avian_59 Start: 39556, Stop: 41472, Start Num: 53

Candidate Starts for Avian_59:

(Start: 53 @39556 has 13 MA's), (Start: 54 @39559 has 63 MA's), (Start: 66 @39571 has 2 MA's), (78, 39619), (93, 39652), (155, 39811), (173, 39838), (178, 39847), (214, 39919), (255, 40039), (274, 40102), (314, 40192), (322, 40219), (368, 40348), (376, 40372), (383, 40414), (385, 40426), (393,

40441), (400, 40462), (403, 40483), (406, 40504), (423, 40561), (427, 40579), (445, 40615), (458, 40657), (476, 40717), (506, 40813), (508, 40816), (598, 40993), (613, 41044), (642, 41134), (649, 41170), (651, 41176), (665, 41230), (677, 41269), (699, 41371), (703, 41386), (709, 41407),

Gene: AyoTeo_35 Start: 23382, Stop: 24809, Start Num: 207

Candidate Starts for AyoTeo_35:

(188, 23340), (Start: 207 @23382 has 19 MA's), (361, 23700), (391, 23802), (403, 23847), (406, 23868), (480, 24135), (500, 24183), (502, 24204), (525, 24261), (538, 24294), (554, 24330), (608, 24408), (615, 24429), (642, 24510), (643, 24513), (663, 24600), (668, 24612), (679, 24651), (684, 24687), (690, 24705), (706, 24768),

Gene: BRock_117 Start: 63285, Stop: 64868, Start Num: 205

Candidate Starts for BRock_117:

(Start: 205 @63285 has 5 MA's), (Start: 209 @63294 has 13 MA's), (Start: 225 @63360 has 1 MA's), (226, 63366), (255, 63447), (258, 63456), (283, 63519), (285, 63522), (286, 63525), (292, 63540), (354, 63606), (377, 63669), (378, 63672), (379, 63681), (396, 63735), (402, 63759), (409, 63810), (427, 63891), (438, 63921), (443, 63936), (446, 63948), (458, 63987), (467, 64023), (472, 64044), (480, 64071), (488, 64086), (498, 64107), (505, 64149), (549, 64257), (590, 64305), (603, 64347), (607, 64356), (632, 64428), (638, 64461), (645, 64479), (663, 64572), (668, 64584), (686, 64671), (689, 64683), (693, 64704), (704, 64758), (708, 64770), (732, 64827),

Gene: Barbochs_57 Start: 51736, Stop: 50204, Start Num: 162

Candidate Starts for Barbochs_57:

(69, 51991), (81, 51940), (103, 51889), (121, 51835), (131, 51805), (Start: 143 @51772 has 3 MA's), (149, 51763), (Start: 162 @51736 has 28 MA's), (227, 51568), (235, 51526), (254, 51478), (258, 51466), (262, 51454), (263, 51448), (269, 51427), (285, 51400), (377, 51259), (402, 51172), (403, 51157), (405, 51145), (411, 51115), (422, 51064), (430, 51037), (447, 50986), (456, 50962), (459, 50944), (465, 50926), (466, 50923), (472, 50896), (487, 50854), (503, 50809), (585, 50674), (589, 50659), (595, 50638), (634, 50581), (641, 50557), (657, 50497), (658, 50491), (659, 50485), (660, 50479), (675, 50428), (680, 50404), (687, 50365), (690, 50353), (691, 50350), (718, 50257), (727, 50242), (737, 50221),

Gene: Barnyard_65 Start: 45144, Stop: 47105, Start Num: 48

Candidate Starts for Barnyard_65:

(Start: 48 @45144 has 2 MA's), (64, 45171), (Start: 66 @45177 has 2 MA's), (67, 45183), (87, 45249), (102, 45282), (108, 45297), (Start: 113 @45312 has 3 MA's), (115, 45318), (124, 45345), (138, 45387), (168, 45447), (182, 45468), (198, 45504), (202, 45513), (224, 45576), (228, 45597), (231, 45615), (236, 45630), (240, 45636), (255, 45660), (277, 45735), (279, 45741), (350, 45924), (354, 45936), (361, 45954), (368, 45969), (385, 46047), (427, 46200), (443, 46233), (483, 46368), (495, 46395), (497, 46401), (499, 46407), (513, 46461), (534, 46527), (535, 46530), (579, 46572), (607, 46656), (618, 46689), (648, 46800), (649, 46803), (650, 46806), (652, 46812), (660, 46845), (666, 46866), (667, 46869), (678, 46908), (689, 46962), (698, 46998), (701, 47007), (719, 47064), (729, 47082),

Gene: Beaver_62 Start: 53506, Stop: 51974, Start Num: 162

Candidate Starts for Beaver_62:

(69, 53761), (81, 53710), (103, 53659), (121, 53605), (131, 53575), (Start: 143 @53542 has 3 MA's), (149, 53533), (Start: 162 @53506 has 28 MA's), (227, 53338), (235, 53296), (254, 53248), (258, 53236), (262, 53224), (263, 53218), (269, 53197), (285, 53170), (377, 53029), (402, 52942), (403, 52927), (405, 52915), (411, 52885), (422, 52834), (430, 52807), (447, 52756), (459, 52714), (465, 52696), (466, 52693), (472, 52666), (487, 52624), (503, 52579), (510, 52561), (585, 52444), (589, 52429), (595, 52408), (634, 52351), (641, 52327), (657, 52267), (658, 52261), (659, 52255), (660, 52249), (675, 52198), (680, 52174), (687, 52135), (690, 52123), (718, 52027), (727, 52012), (737, 51991),

Gene: Beckerton_60 Start: 46572, Stop: 48629, Start Num: 54

Candidate Starts for Beckerton_60:

(Start: 54 @46572 has 63 MA's), (76, 46632), (77, 46635), (Start: 113 @46728 has 3 MA's), (116, 46740), (124, 46761), (182, 46884), (184, 46887), (189, 46896), (202, 46929), (208, 46950), (217, 46998), (228, 47040), (255, 47103), (262, 47124), (263, 47130), (279, 47184), (350, 47370), (354, 47382), (361, 47400), (368, 47415), (370, 47421), (461, 47739), (462, 47742), (476, 47787), (497, 47838), (500, 47850), (530, 47940), (534, 47952), (548, 47985), (561, 48009), (577, 48018), (607, 48108), (618, 48141), (648, 48252), (649, 48255), (650, 48258), (651, 48261), (660, 48297), (665, 48315), (681, 48381), (684, 48399), (738, 48576),

Gene: Beethoven_29 Start: 22100, Stop: 23500, Start Num: 203

Candidate Starts for Beethoven_29:

(Start: 203 @22100 has 73 MA's), (220, 22163), (259, 22268), (260, 22271), (292, 22355), (350, 22388), (374, 22439), (378, 22445), (399, 22526), (400, 22529), (402, 22535), (406, 22571), (410, 22589), (411, 22592), (417, 22625), (423, 22646), (427, 22664), (440, 22697), (467, 22778), (474, 22805), (486, 22835), (490, 22844), (500, 22871), (506, 22904), (513, 22919), (535, 22973), (544, 22994), (550, 23006), (578, 23018), (651, 23240), (654, 23249), (656, 23255), (663, 23291), (680, 23351), (684, 23378), (709, 23468),

Gene: Beleetus_123 Start: 66657, Stop: 68228, Start Num: 205

Candidate Starts for Beleetus_123:

(Start: 205 @66657 has 5 MA's), (226, 66738), (227, 66744), (229, 66762), (250, 66807), (256, 66822), (258, 66828), (283, 66891), (292, 66909), (354, 66975), (378, 67041), (379, 67050), (402, 67128), (409, 67179), (435, 67281), (441, 67302), (443, 67305), (458, 67356), (459, 67365), (463, 67380), (467, 67392), (480, 67440), (488, 67455), (607, 67725), (611, 67737), (620, 67761), (621, 67767), (633, 67800), (645, 67848), (668, 67953), (694, 68085), (709, 68142), (712, 68154), (714, 68160), (737, 68208),

Gene: Benczkowski14_57 Start: 53319, Stop: 51616, Start Num: 86

Candidate Starts for Benczkowski14_57:

(Start: 86 @53319 has 9 MA's), (Start: 92 @53307 has 2 MA's), (168, 53124), (Start: 215 @53034 has 28 MA's), (217, 53025), (227, 52989), (229, 52965), (232, 52956), (235, 52947), (254, 52899), (262, 52875), (292, 52803), (333, 52800), (342, 52782), (353, 52743), (395, 52614), (403, 52575), (404, 52572), (406, 52554), (408, 52545), (411, 52533), (421, 52485), (431, 52452), (447, 52404), (456, 52380), (472, 52314), (503, 52215), (547, 52116), (552, 52107), (583, 52083), (585, 52080), (634, 51987), (641, 51963), (643, 51960), (657, 51903), (660, 51885), (687, 51768), (688, 51765), (691, 51753), (727, 51654), (737, 51633),

Gene: Bennie_25 Start: 20566, Stop: 21960, Start Num: 203

Candidate Starts for Bennie_25:

(Start: 203 @20566 has 73 MA's), (220, 20623), (259, 20728), (260, 20731), (292, 20815), (350, 20848), (374, 20899), (378, 20905), (402, 20995), (406, 21031), (410, 21049), (411, 21052), (417, 21085), (423, 21106), (467, 21238), (474, 21265), (486, 21295), (490, 21304), (500, 21331), (506, 21364), (513, 21379), (525, 21406), (535, 21433), (552, 21469), (591, 21511), (615, 21574), (621, 21592), (643, 21664), (647, 21688), (649, 21694), (650, 21697), (656, 21715), (657, 21718), (662, 21742), (663, 21751), (684, 21838), (698, 21889), (709, 21928),

Gene: BenoitCattle_59 Start: 52020, Stop: 50611, Start Num: 215

Candidate Starts for BenoitCattle_59:

(69, 52398), (81, 52347), (103, 52296), (121, 52242), (131, 52212), (Start: 143 @52179 has 3 MA's), (149, 52170), (Start: 162 @52143 has 28 MA's), (Start: 215 @52020 has 28 MA's), (227, 51975), (235, 51933), (254, 51885), (255, 51882), (257, 51876), (258, 51873), (262, 51861), (263, 51855), (285,

51807), (286, 51804), (371, 51684), (377, 51666), (395, 51603), (402, 51579), (403, 51564), (411, 51522), (422, 51471), (447, 51393), (465, 51333), (466, 51330), (468, 51321), (472, 51303), (487, 51261), (503, 51216), (585, 51081), (589, 51066), (595, 51045), (641, 50964), (643, 50961), (657, 50904), (658, 50898), (660, 50886), (675, 50835), (680, 50811), (687, 50772), (690, 50760), (718, 50664), (727, 50649),

Gene: Benry_32 Start: 21495, Stop: 22922, Start Num: 207

Candidate Starts for Benry_32:

(Start: 207 @21495 has 19 MA's), (374, 21849), (377, 21852), (381, 21873), (403, 21960), (411, 22002), (497, 22284), (500, 22296), (502, 22317), (513, 22344), (524, 22371), (525, 22374), (535, 22401), (538, 22407), (554, 22443), (615, 22542), (634, 22605), (642, 22623), (643, 22626), (657, 22680), (663, 22713), (668, 22725), (679, 22764), (684, 22800), (687, 22806), (690, 22818), (698, 22851), (706, 22881),

Gene: Berries_57 Start: 52859, Stop: 51447, Start Num: 215

Candidate Starts for Berries_57:

(69, 53207), (112, 53078), (Start: 143 @52988 has 3 MA's), (Start: 215 @52859 has 28 MA's), (227, 52814), (254, 52724), (255, 52721), (257, 52715), (263, 52694), (292, 52631), (371, 52523), (377, 52505), (402, 52418), (403, 52403), (411, 52361), (431, 52280), (447, 52232), (459, 52190), (465, 52172), (466, 52169), (472, 52142), (491, 52091), (503, 52055), (524, 52004), (585, 51920), (591, 51899), (657, 51743), (658, 51737), (660, 51725), (690, 51599), (727, 51485),

Gene: Beyoncage_50 Start: 36615, Stop: 38669, Start Num: 57

Candidate Starts for Beyoncage_50:

(Start: 57 @36615 has 8 MA's), (70, 36639), (95, 36702), (125, 36786), (138, 36828), (234, 37050), (255, 37086), (279, 37161), (294, 37200), (319, 37242), (325, 37260), (328, 37281), (330, 37293), (354, 37353), (359, 37368), (368, 37386), (385, 37464), (393, 37479), (394, 37482), (403, 37521), (406, 37542), (444, 37644), (461, 37701), (467, 37722), (468, 37725), (473, 37737), (495, 37785), (497, 37791), (508, 37839), (520, 37872), (531, 37896), (538, 37914), (552, 37944), (566, 38067), (575, 38100), (578, 38112), (583, 38127), (595, 38166), (604, 38211), (613, 38238), (639, 38322), (655, 38385), (665, 38427), (668, 38436), (670, 38445), (681, 38493), (683, 38502), (684, 38514), (689, 38529), (700, 38571),

Gene: BiPauneto_74 Start: 54628, Stop: 52772, Start Num: 113

Candidate Starts for BiPauneto_74:

(9, 55045), (12, 55027), (17, 54952), (Start: 35 @54853 has 34 MA's), (Start: 113 @54628 has 3 MA's), (235, 54334), (255, 54301), (262, 54280), (277, 54226), (279, 54220), (281, 54217), (318, 54127), (320, 54124), (342, 54064), (388, 53908), (427, 53761), (461, 53653), (468, 53629), (500, 53527), (515, 53473), (522, 53458), (556, 53377), (583, 53338), (599, 53275), (604, 53236), (607, 53230), (617, 53200), (649, 53083), (666, 53020), (681, 52957), (684, 52939), (707, 52855),

Gene: Bianmat_57 Start: 52899, Stop: 51487, Start Num: 215

Candidate Starts for Bianmat_57:

(69, 53247), (112, 53118), (Start: 143 @53028 has 3 MA's), (Start: 215 @52899 has 28 MA's), (227, 52854), (254, 52764), (255, 52761), (257, 52755), (263, 52734), (292, 52671), (359, 52593), (371, 52563), (377, 52545), (402, 52458), (403, 52443), (411, 52401), (431, 52320), (447, 52272), (459, 52230), (465, 52212), (466, 52209), (472, 52182), (491, 52131), (503, 52095), (524, 52044), (585, 51960), (591, 51939), (657, 51783), (658, 51777), (660, 51765), (690, 51639), (727, 51525),

Gene: Big4_103 Start: 78367, Stop: 76427, Start Num: 63

Candidate Starts for Big4_103:

(Start: 63 @78367 has 10 MA's), (119, 78214), (163, 78121), (Start: 215 @78046 has 28 MA's), (235, 77965), (247, 77941), (336, 77665), (409, 77359), (441, 77269), (461, 77209), (463, 77200), (499,

77143), (500, 77137), (506, 77104), (512, 77092), (515, 77083), (526, 77059), (552, 76999), (608, 76867), (610, 76861), (632, 76798), (635, 76777), (637, 76771), (658, 76696), (659, 76690), (663, 76669), (680, 76609), (688, 76567), (694, 76543), (696, 76531),

Gene: BigMack_25 Start: 20560, Stop: 21960, Start Num: 203

Candidate Starts for BigMack_25:

(Start: 203 @20560 has 73 MA's), (220, 20623), (259, 20728), (260, 20731), (292, 20815), (350, 20848), (374, 20899), (378, 20905), (399, 20986), (400, 20989), (402, 20995), (406, 21031), (410, 21049), (411, 21052), (417, 21085), (423, 21106), (427, 21124), (467, 21238), (474, 21265), (486, 21295), (490, 21304), (500, 21331), (506, 21364), (513, 21379), (525, 21406), (538, 21439), (591, 21511), (615, 21574), (621, 21592), (633, 21625), (649, 21694), (651, 21700), (656, 21715), (657, 21718), (663, 21751), (680, 21811), (684, 21838), (709, 21928),

Gene: BigMama_51 Start: 39745, Stop: 41688, Start Num: 54

Candidate Starts for BigMama_51:

(Start: 54 @39745 has 63 MA's), (69, 39772), (94, 39844), (114, 39898), (136, 39958), (141, 39976), (145, 39985), (176, 40036), (196, 40078), (214, 40114), (235, 40201), (272, 40294), (277, 40309), (286, 40330), (328, 40432), (340, 40465), (347, 40489), (370, 40549), (393, 40636), (409, 40711), (445, 40801), (461, 40852), (462, 40855), (495, 40945), (500, 40963), (506, 40996), (530, 41050), (534, 41062), (542, 41080), (583, 41143), (604, 41227), (642, 41344), (649, 41392), (666, 41455), (684, 41539),

Gene: BigShaq_59 Start: 52148, Stop: 50616, Start Num: 162

Candidate Starts for BigShaq_59:

(69, 52403), (81, 52352), (103, 52301), (121, 52247), (131, 52217), (Start: 143 @52184 has 3 MA's), (149, 52175), (Start: 162 @52148 has 28 MA's), (Start: 215 @52025 has 28 MA's), (227, 51980), (235, 51938), (254, 51890), (255, 51887), (257, 51881), (258, 51878), (262, 51866), (263, 51860), (279, 51824), (285, 51812), (286, 51809), (371, 51689), (377, 51671), (402, 51584), (403, 51569), (411, 51527), (422, 51476), (430, 51449), (447, 51398), (465, 51338), (466, 51335), (468, 51326), (472, 51308), (487, 51266), (503, 51221), (585, 51086), (589, 51071), (595, 51050), (641, 50969), (643, 50966), (657, 50909), (658, 50903), (660, 50891), (675, 50840), (679, 50825), (680, 50816), (687, 50777), (690, 50765), (718, 50669), (727, 50654),

Gene: BillyBobJr_65 Start: 53852, Stop: 52284, Start Num: 143

Candidate Starts for BillyBobJr_65:

(69, 54071), (81, 54020), (112, 53942), (121, 53915), (131, 53885), (Start: 143 @53852 has 3 MA's), (149, 53843), (Start: 162 @53816 has 28 MA's), (227, 53648), (235, 53606), (242, 53588), (254, 53558), (258, 53546), (263, 53528), (285, 53480), (377, 53339), (402, 53252), (403, 53237), (405, 53225), (411, 53195), (422, 53144), (447, 53066), (456, 53042), (459, 53024), (465, 53006), (466, 53003), (468, 52994), (472, 52976), (503, 52889), (585, 52754), (589, 52739), (595, 52718), (634, 52661), (641, 52637), (643, 52634), (657, 52577), (658, 52571), (660, 52559), (675, 52508), (680, 52484), (687, 52445), (690, 52433), (691, 52430), (718, 52337), (727, 52322), (737, 52301),

Gene: BirksAndSocks_64 Start: 53856, Stop: 52324, Start Num: 162

Candidate Starts for BirksAndSocks_64:

(69, 54111), (81, 54060), (121, 53955), (131, 53925), (Start: 143 @53892 has 3 MA's), (149, 53883), (Start: 162 @53856 has 28 MA's), (227, 53688), (235, 53646), (242, 53628), (254, 53598), (258, 53586), (262, 53574), (263, 53568), (269, 53547), (377, 53379), (402, 53292), (403, 53277), (405, 53265), (411, 53235), (447, 53106), (456, 53082), (459, 53064), (465, 53046), (466, 53043), (468, 53034), (472, 53016), (503, 52929), (585, 52794), (589, 52779), (595, 52758), (641, 52677), (643, 52674), (657, 52617), (658, 52611), (660, 52599), (675, 52548), (680, 52524), (687, 52485), (690, 52473), (691, 52470), (718, 52377), (727, 52362),

Gene: BirthdayBoy_62 Start: 41143, Stop: 43056, Start Num: 54

Candidate Starts for BirthdayBoy_62:

(19, 41017), (21, 41026), (22, 41038), (33, 41071), (Start: 53 @41140 has 13 MA's), (Start: 54 @41143 has 63 MA's), (Start: 66 @41155 has 2 MA's), (78, 41203), (93, 41236), (117, 41305), (155, 41395), (173, 41422), (178, 41431), (214, 41503), (255, 41623), (274, 41686), (314, 41776), (322, 41803), (368, 41932), (376, 41956), (383, 41998), (400, 42046), (403, 42067), (406, 42088), (423, 42145), (445, 42199), (458, 42241), (476, 42301), (506, 42397), (508, 42400), (598, 42577), (613, 42628), (642, 42718), (649, 42754), (651, 42760), (665, 42814), (677, 42853), (699, 42955), (703, 42970), (709, 42991),

Gene: BiteSize_50 Start: 36701, Stop: 38755, Start Num: 57

Candidate Starts for BiteSize_50:

(Start: 57 @36701 has 8 MA's), (70, 36725), (95, 36788), (125, 36872), (138, 36914), (234, 37136), (255, 37172), (279, 37247), (294, 37286), (319, 37328), (325, 37346), (328, 37367), (330, 37379), (354, 37439), (359, 37454), (368, 37472), (385, 37550), (393, 37565), (394, 37568), (403, 37607), (406, 37628), (444, 37730), (461, 37787), (467, 37808), (468, 37811), (473, 37823), (495, 37871), (497, 37877), (508, 37925), (520, 37958), (531, 37982), (538, 38000), (552, 38030), (566, 38153), (575, 38186), (578, 38198), (583, 38213), (595, 38252), (604, 38297), (613, 38324), (639, 38408), (655, 38471), (665, 38513), (668, 38522), (670, 38531), (681, 38579), (683, 38588), (684, 38600), (689, 38615), (700, 38657),

Gene: Bloom_105 Start: 80738, Stop: 82576, Start Num: 59

Candidate Starts for Bloom_105:

(Start: 59 @80738 has 12 MA's), (84, 80819), (120, 80897), (167, 80993), (Start: 215 @81053 has 28 MA's), (224, 81083), (263, 81203), (278, 81254), (338, 81314), (420, 81653), (443, 81710), (450, 81731), (463, 81776), (499, 81833), (500, 81839), (506, 81872), (512, 81884), (516, 81896), (534, 81941), (552, 81980), (579, 82037), (581, 82043), (592, 82076), (617, 82145), (643, 82229), (673, 82346), (716, 82520), (736, 82562),

Gene: BlueNGold_166 Start: 96830, Stop: 94920, Start Num: 58

Candidate Starts for BlueNGold_166:

(Start: 58 @96830 has 8 MA's), (138, 96626), (163, 96578), (193, 96533), (217, 96452), (222, 96440), (255, 96335), (263, 96308), (334, 96203), (344, 96179), (381, 96014), (461, 95747), (463, 95738), (473, 95711), (506, 95642), (592, 95393), (613, 95327), (622, 95303), (659, 95168), (676, 95108), (690, 95036),

Gene: BobtimousPrime_59 Start: 46536, Stop: 48593, Start Num: 54

Candidate Starts for BobtimousPrime_59:

(Start: 54 @46536 has 63 MA's), (76, 46596), (77, 46599), (Start: 113 @46692 has 3 MA's), (116, 46704), (124, 46725), (182, 46848), (184, 46851), (189, 46860), (202, 46893), (208, 46914), (217, 46962), (228, 47004), (255, 47067), (262, 47088), (263, 47094), (279, 47148), (350, 47334), (354, 47346), (361, 47364), (368, 47379), (370, 47385), (461, 47703), (462, 47706), (476, 47751), (497, 47802), (500, 47814), (530, 47904), (534, 47916), (548, 47949), (561, 47973), (577, 47982), (607, 48072), (618, 48105), (648, 48216), (649, 48219), (650, 48222), (651, 48225), (660, 48261), (665, 48279), (681, 48345), (684, 48363), (738, 48540),

Gene: Bodacious_25 Start: 20580, Stop: 21974, Start Num: 203

Candidate Starts for Bodacious_25:

(Start: 203 @20580 has 73 MA's), (220, 20637), (259, 20742), (260, 20745), (292, 20829), (350, 20862), (374, 20913), (378, 20919), (399, 21000), (400, 21003), (402, 21009), (406, 21045), (410, 21063), (411, 21066), (417, 21099), (423, 21120), (467, 21252), (474, 21279), (490, 21318), (499, 21339), (500, 21345), (506, 21378), (513, 21393), (516, 21402), (535, 21447), (552, 21483), (591, 21525), (615, 21588), (621, 21606), (649, 21708), (650, 21711), (656, 21729), (657, 21732), (662,

21756), (663, 21765), (684, 21852), (709, 21942), (717, 21966),

Gene: Bogota_43 Start: 31399, Stop: 32793, Start Num: 209

Candidate Starts for Bogota_43:

(Start: 209 @31399 has 13 MA's), (Start: 211 @31402 has 3 MA's), (227, 31477), (231, 31501), (254, 31531), (259, 31546), (341, 31636), (356, 31672), (391, 31771), (395, 31780), (409, 31849), (440, 31972), (480, 32107), (492, 32134), (500, 32155), (502, 32176), (525, 32233), (538, 32266), (542, 32275), (582, 32317), (607, 32383), (615, 32407), (621, 32425), (629, 32443), (643, 32497), (649, 32527), (663, 32584), (665, 32587), (679, 32635), (686, 32674), (690, 32689), (708, 32758), (713, 32776), (717, 32785),

Gene: Boneham_63 Start: 53757, Stop: 52225, Start Num: 162

Candidate Starts for Boneham_63:

(69, 54012), (81, 53961), (121, 53856), (131, 53826), (Start: 143 @53793 has 3 MA's), (149, 53784), (Start: 162 @53757 has 28 MA's), (227, 53589), (235, 53547), (242, 53529), (254, 53499), (258, 53487), (262, 53475), (263, 53469), (269, 53448), (377, 53280), (402, 53193), (403, 53178), (405, 53166), (411, 53136), (447, 53007), (456, 52983), (459, 52965), (465, 52947), (466, 52944), (468, 52935), (472, 52917), (503, 52830), (585, 52695), (589, 52680), (595, 52659), (641, 52578), (643, 52575), (657, 52518), (658, 52512), (660, 52500), (675, 52449), (680, 52425), (687, 52386), (690, 52374), (691, 52371), (718, 52278), (727, 52263),

Gene: Bonum_76 Start: 56632, Stop: 54545, Start Num: 35

Candidate Starts for Bonum_76:

(Start: 35 @56632 has 34 MA's), (72, 56512), (Start: 90 @56467 has 4 MA's), (Start: 92 @56464 has 2 MA's), (201, 56209), (235, 56101), (262, 56047), (281, 55984), (318, 55894), (320, 55891), (326, 55867), (342, 55831), (383, 55693), (388, 55675), (393, 55666), (398, 55651), (427, 55528), (453, 55444), (461, 55417), (468, 55393), (500, 55294), (515, 55240), (538, 55186), (556, 55144), (583, 55105), (601, 55036), (604, 55003), (617, 54967), (633, 54922), (634, 54910), (649, 54850), (666, 54787), (707, 54622), (715, 54598),

Gene: BooTeria_97 Start: 77289, Stop: 79133, Start Num: 59

Candidate Starts for BooTeria_97:

(Start: 59 @77289 has 12 MA's), (167, 77562), (227, 77670), (250, 77736), (273, 77805), (275, 77814), (340, 77889), (411, 78198), (424, 78243), (443, 78282), (450, 78303), (463, 78348), (499, 78405), (500, 78411), (506, 78444), (512, 78456), (516, 78468), (569, 78585), (571, 78591), (606, 78681), (617, 78714), (643, 78798), (666, 78891), (673, 78915), (713, 79083), (714, 79086),

Gene: Boopy_169 Start: 96841, Stop: 94931, Start Num: 58

Candidate Starts for Boopy_169:

(Start: 58 @96841 has 8 MA's), (138, 96637), (163, 96589), (193, 96544), (217, 96463), (222, 96451), (255, 96346), (263, 96319), (334, 96214), (344, 96190), (381, 96025), (461, 95758), (463, 95749), (473, 95722), (506, 95653), (592, 95404), (613, 95338), (622, 95314), (659, 95179), (676, 95119), (690, 95047),

Gene: Bramble_42 Start: 26601, Stop: 28535, Start Num: 62

Candidate Starts for Bramble_42:

(14, 26361), (Start: 28 @26505 has 1 MA's), (Start: 58 @26595 has 8 MA's), (Start: 62 @26601 has 6 MA's), (115, 26748), (120, 26766), (124, 26775), (202, 26925), (243, 27051), (276, 27141), (279, 27150), (318, 27240), (329, 27282), (335, 27312), (376, 27444), (425, 27630), (436, 27648), (444, 27663), (461, 27720), (480, 27780), (517, 27852), (587, 27990), (602, 28056), (606, 28086), (607, 28089), (633, 28164), (650, 28242), (665, 28302), (685, 28392), (691, 28410),

Gene: Braxoaddie_72 Start: 53132, Stop: 51096, Start Num: 36

Candidate Starts for Braxoaddie_72:

(13, 53300), (Start: 36 @53132 has 6 MA's), (Start: 57 @53066 has 8 MA's), (72, 53024), (115, 52919), (201, 52739), (224, 52682), (235, 52631), (243, 52616), (276, 52526), (281, 52514), (318, 52421), (344, 52349), (370, 52280), (385, 52208), (403, 52151), (461, 51971), (468, 51947), (488, 51884), (500, 51848), (530, 51761), (592, 51629), (600, 51590), (601, 51587), (607, 51542), (649, 51395), (666, 51332), (678, 51290), (684, 51251), (692, 51227),

Gene: Breezic_59 Start: 51749, Stop: 50217, Start Num: 162

Candidate Starts for Breezic_59:

(69, 52004), (81, 51953), (103, 51902), (121, 51848), (131, 51818), (Start: 143 @51785 has 3 MA's), (149, 51776), (Start: 162 @51749 has 28 MA's), (227, 51581), (235, 51539), (254, 51491), (258, 51479), (262, 51467), (263, 51461), (269, 51440), (285, 51413), (377, 51272), (402, 51185), (403, 51170), (405, 51158), (411, 51128), (422, 51077), (430, 51050), (447, 50999), (465, 50939), (466, 50936), (472, 50909), (487, 50867), (503, 50822), (585, 50687), (589, 50672), (595, 50651), (634, 50594), (641, 50570), (643, 50567), (657, 50510), (658, 50504), (659, 50498), (660, 50492), (675, 50441), (680, 50417), (687, 50378), (690, 50366), (691, 50363), (718, 50270), (727, 50255), (737, 50234),

Gene: BrotherBLo_29 Start: 22106, Stop: 23506, Start Num: 203

Candidate Starts for BrotherBLo_29:

(Start: 203 @22106 has 73 MA's), (220, 22169), (259, 22274), (292, 22361), (350, 22394), (374, 22445), (378, 22451), (399, 22532), (400, 22535), (402, 22541), (406, 22577), (410, 22595), (411, 22598), (417, 22631), (423, 22652), (427, 22670), (467, 22784), (474, 22811), (486, 22841), (490, 22850), (500, 22877), (506, 22910), (513, 22925), (535, 22979), (544, 23000), (550, 23012), (578, 23024), (649, 23240), (650, 23243), (651, 23246), (654, 23255), (656, 23261), (663, 23297), (680, 23357), (684, 23384), (709, 23474),

Gene: Buggaboo_74 Start: 57198, Stop: 55111, Start Num: 35

Candidate Starts for Buggaboo_74:

(Start: 35 @57198 has 34 MA's), (72, 57078), (Start: 90 @57033 has 4 MA's), (Start: 92 @57030 has 2 MA's), (201, 56775), (235, 56667), (262, 56613), (281, 56550), (318, 56460), (320, 56457), (326, 56433), (342, 56397), (383, 56259), (388, 56241), (393, 56232), (398, 56217), (427, 56094), (453, 56010), (461, 55983), (468, 55959), (500, 55860), (515, 55806), (538, 55752), (556, 55710), (583, 55671), (601, 55602), (604, 55569), (617, 55533), (633, 55488), (634, 55476), (649, 55416), (651, 55410), (666, 55353), (707, 55188), (715, 55164),

Gene: Butterball_62 Start: 53762, Stop: 52230, Start Num: 162

Candidate Starts for Butterball_62:

(69, 54017), (81, 53966), (121, 53861), (131, 53831), (Start: 143 @53798 has 3 MA's), (149, 53789), (Start: 162 @53762 has 28 MA's), (227, 53594), (235, 53552), (242, 53534), (254, 53504), (258, 53492), (262, 53480), (263, 53474), (269, 53453), (377, 53285), (402, 53198), (403, 53183), (405, 53171), (411, 53141), (447, 53012), (456, 52988), (459, 52970), (465, 52952), (466, 52949), (468, 52940), (472, 52922), (503, 52835), (585, 52700), (589, 52685), (595, 52664), (641, 52583), (643, 52580), (657, 52523), (658, 52517), (660, 52505), (675, 52454), (680, 52430), (687, 52391), (690, 52379), (691, 52376), (718, 52283), (727, 52268),

Gene: Butterscotch_52 Start: 39729, Stop: 41672, Start Num: 54

Candidate Starts for Butterscotch_52:

(Start: 54 @39729 has 63 MA's), (69, 39756), (94, 39828), (114, 39882), (136, 39942), (141, 39960), (145, 39969), (176, 40020), (196, 40062), (214, 40098), (235, 40185), (272, 40278), (277, 40293), (286, 40314), (328, 40416), (340, 40449), (347, 40473), (370, 40533), (393, 40620), (409, 40695), (445, 40785), (461, 40836), (462, 40839), (495, 40929), (500, 40947), (506, 40980), (530, 41034), (534, 41046), (542, 41064), (583, 41127), (604, 41211), (642, 41328), (649, 41376), (666, 41439),

(684, 41523),

Gene: C3PO_72 Start: 52724, Stop: 50799, Start Num: 65

Candidate Starts for C3PO_72:

(32, 52817), (Start: 65 @52724 has 8 MA's), (128, 52553), (150, 52499), (180, 52445), (235, 52295), (297, 52139), (318, 52088), (320, 52085), (369, 51956), (370, 51953), (385, 51881), (390, 51872), (500, 51515), (506, 51482), (592, 51296), (651, 51077), (655, 51065), (659, 51047), (666, 51020), (681, 50957), (689, 50924), (708, 50852),

Gene: Camerico_63 Start: 54751, Stop: 53234, Start Num: 190

Candidate Starts for Camerico_63:

(Start: 190 @54751 has 3 MA's), (Start: 215 @54673 has 28 MA's), (220, 54655), (224, 54643), (227, 54628), (244, 54574), (254, 54556), (256, 54550), (272, 54496), (283, 54478), (346, 54418), (354, 54394), (380, 54313), (390, 54274), (401, 54247), (404, 54226), (408, 54199), (410, 54190), (447, 54058), (456, 54034), (459, 54016), (465, 53998), (467, 53989), (553, 53773), (578, 53767), (583, 53752), (597, 53701), (624, 53647), (660, 53506), (679, 53440), (680, 53431), (684, 53398),

Gene: Candle_64 Start: 47961, Stop: 49721, Start Num: 191

Candidate Starts for Candle_64:

(Start: 191 @47961 has 9 MA's), (218, 48030), (251, 48126), (256, 48135), (280, 48216), (300, 48261), (368, 48462), (382, 48510), (398, 48570), (402, 48582), (413, 48648), (454, 48771), (461, 48795), (468, 48819), (500, 49023), (506, 49056), (513, 49071), (530, 49110), (531, 49113), (534, 49122), (583, 49191), (591, 49215), (622, 49323), (649, 49446), (650, 49449), (658, 49476), (665, 49506), (667, 49512), (668, 49515), (673, 49533), (677, 49545), (709, 49680), (720, 49710),

Gene: Canowicakte_29 Start: 22165, Stop: 23559, Start Num: 203

Candidate Starts for Canowicakte_29:

(Start: 203 @22165 has 73 MA's), (220, 22222), (259, 22327), (292, 22414), (374, 22498), (377, 22501), (378, 22504), (402, 22594), (406, 22630), (408, 22639), (410, 22648), (423, 22705), (427, 22723), (440, 22756), (446, 22768), (467, 22837), (474, 22864), (482, 22888), (500, 22930), (506, 22963), (513, 22978), (516, 22987), (578, 23077), (606, 23146), (615, 23173), (621, 23191), (626, 23203), (649, 23293), (651, 23299), (654, 23308), (656, 23314), (663, 23350), (684, 23437), (698, 23488), (709, 23527), (717, 23551),

Gene: CardboardBox_39 Start: 26376, Stop: 24544, Start Num: 63

Candidate Starts for CardboardBox_39:

(Start: 63 @26376 has 10 MA's), (Start: 79 @26319 has 2 MA's), (175, 26118), (227, 25983), (273, 25848), (281, 25821), (340, 25764), (344, 25749), (361, 25695), (376, 25599), (378, 25593), (380, 25578), (391, 25533), (403, 25485), (406, 25464), (410, 25446), (425, 25395), (460, 25302), (463, 25290), (500, 25227), (529, 25155), (558, 25095), (569, 25074), (592, 25008), (597, 24990), (606, 24972), (607, 24969), (620, 24933), (649, 24825), (652, 24816), (668, 24756), (680, 24708),

Gene: Carpal_29 Start: 22107, Stop: 23507, Start Num: 203

Candidate Starts for Carpal_29:

(Start: 203 @22107 has 73 MA's), (220, 22170), (259, 22275), (260, 22278), (292, 22362), (350, 22395), (374, 22446), (378, 22452), (399, 22533), (400, 22536), (402, 22542), (406, 22578), (410, 22596), (411, 22599), (417, 22632), (423, 22653), (427, 22671), (440, 22704), (467, 22785), (474, 22812), (486, 22842), (490, 22851), (500, 22878), (506, 22911), (513, 22926), (535, 22980), (544, 23001), (550, 23013), (578, 23025), (651, 23247), (654, 23256), (656, 23262), (663, 23298), (680, 23358), (684, 23385), (709, 23475),

Gene: CathyBurgh_59 Start: 52326, Stop: 50794, Start Num: 162

Candidate Starts for CathyBurgh_59:

(69, 52581), (81, 52530), (103, 52479), (121, 52425), (131, 52395), (Start: 143 @52362 has 3 MA's), (149, 52353), (Start: 162 @52326 has 28 MA's), (227, 52158), (235, 52116), (254, 52068), (258, 52056), (262, 52044), (263, 52038), (269, 52017), (285, 51990), (377, 51849), (402, 51762), (403, 51747), (405, 51735), (411, 51705), (422, 51654), (430, 51627), (447, 51576), (456, 51552), (459, 51534), (465, 51516), (466, 51513), (472, 51486), (487, 51444), (503, 51399), (585, 51264), (589, 51249), (595, 51228), (634, 51171), (641, 51147), (657, 51087), (658, 51081), (659, 51075), (660, 51069), (675, 51018), (680, 50994), (687, 50955), (690, 50943), (691, 50940), (718, 50847), (727, 50832), (737, 50811),

Gene: Cborch11_63 Start: 46091, Stop: 48148, Start Num: 54

Candidate Starts for Cborch11_63:

(Start: 54 @46091 has 63 MA's), (76, 46151), (77, 46154), (Start: 113 @46247 has 3 MA's), (116, 46259), (124, 46280), (182, 46403), (184, 46406), (189, 46415), (202, 46448), (208, 46469), (217, 46517), (228, 46559), (255, 46622), (262, 46643), (263, 46649), (279, 46703), (350, 46889), (354, 46901), (361, 46919), (368, 46934), (370, 46940), (461, 47258), (462, 47261), (476, 47306), (497, 47357), (500, 47369), (530, 47459), (534, 47471), (548, 47504), (561, 47528), (577, 47537), (607, 47627), (618, 47660), (648, 47771), (649, 47774), (650, 47777), (651, 47780), (660, 47816), (665, 47834), (681, 47900), (684, 47918), (738, 48095),

Gene: Cece_97 Start: 81318, Stop: 79462, Start Num: 56

Candidate Starts for Cece_97:

(Start: 56 @81318 has 1 MA's), (Start: 79 @81255 has 2 MA's), (111, 81186), (156, 81078), (Start: 215 @80991 has 28 MA's), (240, 80901), (255, 80868), (257, 80862), (278, 80790), (334, 80709), (338, 80703), (376, 80544), (409, 80400), (426, 80340), (441, 80310), (461, 80250), (463, 80241), (499, 80184), (500, 80178), (506, 80145), (512, 80133), (526, 80100), (552, 80040), (607, 79911), (608, 79908), (617, 79881), (632, 79839), (635, 79818), (659, 79731), (680, 79650), (688, 79608), (694, 79584), (709, 79527),

Gene: ChamoyPickle_40 Start: 26916, Stop: 25084, Start Num: 63

Candidate Starts for ChamoyPickle_40:

(Start: 63 @26916 has 10 MA's), (Start: 79 @26859 has 2 MA's), (175, 26658), (227, 26523), (273, 26388), (281, 26361), (340, 26304), (344, 26289), (361, 26235), (376, 26139), (378, 26133), (380, 26118), (391, 26073), (403, 26025), (406, 26004), (410, 25986), (425, 25935), (460, 25842), (463, 25830), (500, 25767), (529, 25695), (558, 25635), (569, 25614), (592, 25548), (597, 25530), (606, 25512), (607, 25509), (620, 25473), (649, 25365), (652, 25356), (668, 25296), (680, 25248),

Gene: Charianelly_57 Start: 52738, Stop: 51197, Start Num: 143

Candidate Starts for Charianelly_57:

(69, 52957), (112, 52828), (Start: 143 @52738 has 3 MA's), (Start: 215 @52609 has 28 MA's), (227, 52564), (254, 52474), (255, 52471), (257, 52465), (263, 52444), (292, 52381), (359, 52303), (371, 52273), (377, 52255), (402, 52168), (403, 52153), (411, 52111), (431, 52030), (447, 51982), (459, 51940), (465, 51922), (466, 51919), (472, 51892), (491, 51841), (503, 51805), (524, 51754), (585, 51670), (591, 51649), (657, 51493), (658, 51487), (660, 51475), (690, 51349), (727, 51235),

Gene: Charminar_60 Start: 39177, Stop: 41090, Start Num: 54

Candidate Starts for Charminar_60:

(Start: 53 @39174 has 13 MA's), (Start: 54 @39177 has 63 MA's), (Start: 66 @39189 has 2 MA's), (78, 39237), (93, 39270), (155, 39429), (173, 39456), (178, 39465), (214, 39537), (255, 39657), (274, 39720), (314, 39810), (322, 39837), (368, 39966), (376, 39990), (383, 40032), (385, 40044), (393, 40059), (400, 40080), (403, 40101), (406, 40122), (423, 40179), (427, 40197), (445, 40233), (458, 40275), (476, 40335), (506, 40431), (508, 40434), (598, 40611), (613, 40662), (642, 40752), (649, 40788), (651, 40794), (665, 40848), (677, 40887), (699, 40989), (703, 41004), (709, 41025),

Gene: Chelms_59 Start: 52169, Stop: 50760, Start Num: 215

Candidate Starts for Chelms_59:

(69, 52547), (81, 52496), (103, 52445), (121, 52391), (131, 52361), (Start: 143 @52328 has 3 MA's), (149, 52319), (Start: 162 @52292 has 28 MA's), (Start: 215 @52169 has 28 MA's), (227, 52124), (235, 52082), (254, 52034), (255, 52031), (257, 52025), (258, 52022), (262, 52010), (263, 52004), (285, 51956), (286, 51953), (371, 51833), (377, 51815), (395, 51752), (402, 51728), (403, 51713), (411, 51671), (422, 51620), (430, 51593), (447, 51542), (465, 51482), (466, 51479), (468, 51470), (472, 51452), (487, 51410), (503, 51365), (504, 51362), (585, 51230), (589, 51215), (595, 51194), (641, 51113), (643, 51110), (657, 51053), (658, 51047), (660, 51035), (675, 50984), (679, 50969), (680, 50960), (687, 50921), (690, 50909), (718, 50813), (727, 50798),

Gene: ChewChew_25 Start: 20575, Stop: 21969, Start Num: 203

Candidate Starts for ChewChew_25:

(Start: 203 @20575 has 73 MA's), (220, 20632), (259, 20737), (260, 20740), (292, 20824), (350, 20857), (374, 20908), (378, 20914), (399, 20995), (400, 20998), (402, 21004), (406, 21040), (410, 21058), (411, 21061), (417, 21094), (423, 21115), (467, 21247), (474, 21274), (490, 21313), (499, 21334), (500, 21340), (506, 21373), (513, 21388), (516, 21397), (535, 21442), (552, 21478), (591, 21520), (615, 21583), (621, 21601), (649, 21703), (650, 21706), (656, 21724), (657, 21727), (662, 21751), (663, 21760), (684, 21847), (709, 21937), (717, 21961),

Gene: ChewyVIII_83 Start: 61890, Stop: 59662, Start Num: 39

Candidate Starts for ChewyVIII_83:

(Start: 39 @61890 has 1 MA's), (150, 61581), (178, 61530), (201, 61485), (235, 61377), (262, 61323), (270, 61293), (277, 61269), (292, 61233), (303, 61212), (316, 61173), (318, 61167), (364, 60918), (385, 60777), (390, 60768), (402, 60735), (403, 60720), (414, 60666), (429, 60621), (443, 60597), (488, 60450), (495, 60432), (500, 60414), (508, 60378), (531, 60324), (538, 60306), (592, 60195), (601, 60153), (622, 60063), (649, 59958), (655, 59940), (678, 59853), (683, 59823), (684, 59814), (698, 59763), (704, 59739), (707, 59730), (715, 59706), (722, 59688),

Gene: Chill_55 Start: 39836, Stop: 41779, Start Num: 54

Candidate Starts for Chill_55:

(Start: 54 @39836 has 63 MA's), (69, 39863), (94, 39935), (114, 39989), (136, 40049), (141, 40067), (145, 40076), (176, 40127), (196, 40169), (214, 40205), (235, 40292), (272, 40385), (277, 40400), (286, 40421), (328, 40523), (340, 40556), (347, 40580), (370, 40640), (393, 40727), (409, 40802), (445, 40892), (461, 40943), (462, 40946), (495, 41036), (500, 41054), (506, 41087), (530, 41141), (534, 41153), (542, 41171), (583, 41234), (604, 41318), (642, 41435), (649, 41483), (666, 41546), (684, 41630),

Gene: Chilliams_99 Start: 73536, Stop: 75392, Start Num: 59

Candidate Starts for Chilliams_99:

(Start: 59 @73536 has 12 MA's), (144, 73752), (167, 73794), (171, 73800), (208, 73833), (224, 73902), (227, 73917), (235, 73953), (254, 73992), (278, 74073), (338, 74133), (368, 74268), (450, 74550), (463, 74595), (500, 74658), (506, 74691), (512, 74703), (531, 74751), (538, 74769), (560, 74814), (569, 74835), (579, 74856), (592, 74895), (604, 74928), (617, 74964), (622, 74979), (632, 75006), (640, 75042), (643, 75048), (673, 75165), (680, 75195), (714, 75336),

Gene: ChipsNGuac_39 Start: 26376, Stop: 24544, Start Num: 63

Candidate Starts for ChipsNGuac_39:

(Start: 63 @26376 has 10 MA's), (Start: 79 @26319 has 2 MA's), (175, 26118), (227, 25983), (273, 25848), (281, 25821), (340, 25764), (344, 25749), (361, 25695), (376, 25599), (378, 25593), (380, 25578), (391, 25533), (403, 25485), (406, 25464), (410, 25446), (425, 25395), (460, 25302), (463, 25290), (500, 25227), (529, 25155), (558, 25095), (569, 25074), (592, 25008), (597, 24990), (606, 24972), (607, 24969), (620, 24933), (649, 24825), (652, 24816), (668, 24756), (680, 24708),

Gene: Chivey_40 Start: 25169, Stop: 27076, Start Num: 60

Candidate Starts for Chivey_40:

(18, 24995), (Start: 60 @25169 has 35 MA's), (85, 25232), (97, 25253), (115, 25307), (182, 25442), (202, 25484), (219, 25529), (276, 25703), (279, 25712), (318, 25802), (329, 25844), (331, 25859), (384, 26045), (423, 26180), (425, 26192), (444, 26225), (500, 26354), (542, 26471), (643, 26744), (650, 26783), (665, 26843), (685, 26933), (694, 26963), (704, 27005), (722, 27056),

Gene: Cholula_29 Start: 22153, Stop: 23553, Start Num: 203

Candidate Starts for Cholula_29:

(Start: 203 @22153 has 73 MA's), (220, 22216), (259, 22321), (260, 22324), (292, 22408), (350, 22441), (374, 22492), (378, 22498), (399, 22579), (400, 22582), (402, 22588), (406, 22624), (410, 22642), (411, 22645), (423, 22699), (440, 22750), (467, 22831), (474, 22858), (486, 22888), (490, 22897), (500, 22924), (506, 22957), (513, 22972), (535, 23026), (544, 23047), (550, 23059), (578, 23071), (651, 23293), (654, 23302), (656, 23308), (663, 23344), (680, 23404), (684, 23431), (709, 23521),

Gene: Chridison_26 Start: 21746, Stop: 23140, Start Num: 203

Candidate Starts for Chridison_26:

(Start: 203 @21746 has 73 MA's), (220, 21803), (252, 21890), (259, 21908), (260, 21911), (292, 21995), (350, 22028), (374, 22079), (378, 22085), (391, 22145), (402, 22175), (406, 22211), (410, 22229), (423, 22286), (427, 22304), (430, 22310), (440, 22337), (467, 22418), (474, 22445), (482, 22469), (490, 22484), (500, 22511), (506, 22544), (513, 22559), (525, 22586), (606, 22727), (615, 22754), (620, 22766), (626, 22784), (636, 22826), (649, 22874), (651, 22880), (656, 22895), (657, 22898), (663, 22931), (680, 22991), (684, 23018), (700, 23075), (709, 23108), (717, 23132),

Gene: Christian_25 Start: 20576, Stop: 21970, Start Num: 203

Candidate Starts for Christian_25:

(Start: 203 @20576 has 73 MA's), (220, 20633), (259, 20738), (260, 20741), (292, 20825), (350, 20858), (378, 20915), (399, 20996), (400, 20999), (402, 21005), (406, 21041), (410, 21059), (411, 21062), (417, 21095), (423, 21116), (467, 21248), (474, 21275), (490, 21314), (499, 21335), (500, 21341), (506, 21374), (513, 21389), (516, 21398), (535, 21443), (552, 21479), (591, 21521), (615, 21584), (621, 21602), (649, 21704), (650, 21707), (656, 21725), (657, 21728), (662, 21752), (663, 21761), (684, 21848), (709, 21938), (717, 21962),

Gene: Cicada_35 Start: 23458, Stop: 24885, Start Num: 207

Candidate Starts for Cicada_35:

(Start: 207 @23458 has 19 MA's), (361, 23776), (377, 23815), (391, 23878), (403, 23923), (406, 23944), (430, 24043), (480, 24211), (500, 24259), (502, 24280), (513, 24307), (524, 24334), (535, 24364), (536, 24367), (538, 24370), (554, 24406), (608, 24484), (634, 24568), (642, 24586), (643, 24589), (663, 24676), (668, 24688), (679, 24727), (684, 24763), (687, 24769), (698, 24814), (706, 24844),

Gene: CinnamonToast_65 Start: 53852, Stop: 52284, Start Num: 143

Candidate Starts for CinnamonToast_65:

(69, 54071), (81, 54020), (112, 53942), (121, 53915), (131, 53885), (Start: 143 @53852 has 3 MA's), (149, 53843), (Start: 162 @53816 has 28 MA's), (227, 53648), (235, 53606), (242, 53588), (254, 53558), (258, 53546), (263, 53528), (285, 53480), (377, 53339), (402, 53252), (403, 53237), (405, 53225), (411, 53195), (422, 53144), (447, 53066), (456, 53042), (459, 53024), (465, 53006), (466, 53003), (468, 52994), (472, 52976), (503, 52889), (585, 52754), (589, 52739), (595, 52718), (634, 52661), (641, 52637), (643, 52634), (657, 52577), (658, 52571), (660, 52559), (675, 52508), (680, 52484), (687, 52445), (690, 52433), (691, 52430), (718, 52337), (727, 52322), (737, 52301),

Gene: CoffeeBean_72 Start: 53090, Stop: 51054, Start Num: 36

Candidate Starts for CoffeeBean_72:

(13, 53258), (Start: 36 @53090 has 6 MA's), (Start: 57 @53024 has 8 MA's), (72, 52982), (115, 52877), (201, 52697), (224, 52640), (235, 52589), (243, 52574), (276, 52484), (281, 52472), (318, 52379), (344, 52307), (370, 52238), (385, 52166), (403, 52109), (461, 51929), (468, 51905), (488, 51842), (500, 51806), (530, 51719), (592, 51587), (600, 51548), (601, 51545), (607, 51500), (649, 51353), (666, 51290), (678, 51248), (684, 51209), (692, 51185),

Gene: Commandaria_72 Start: 56463, Stop: 54385, Start Num: 35

Candidate Starts for Commandaria_72:

(Start: 35 @56463 has 34 MA's), (Start: 59 @56391 has 12 MA's), (99, 56277), (196, 56058), (201, 56049), (202, 56046), (235, 55941), (262, 55887), (281, 55824), (318, 55734), (342, 55671), (343, 55665), (383, 55533), (388, 55515), (461, 55260), (468, 55236), (500, 55134), (515, 55080), (522, 55065), (525, 55059), (556, 54984), (583, 54945), (601, 54876), (606, 54840), (607, 54837), (617, 54807), (632, 54765), (649, 54690), (666, 54627), (684, 54546), (707, 54462), (715, 54438),

Gene: CoolCookie_40 Start: 25941, Stop: 27848, Start Num: 60

Candidate Starts for CoolCookie_40:

(Start: 60 @25941 has 35 MA's), (85, 26004), (97, 26025), (115, 26079), (202, 26256), (219, 26301), (276, 26475), (279, 26484), (318, 26574), (331, 26631), (384, 26817), (423, 26952), (425, 26964), (444, 26997), (500, 27126), (542, 27243), (592, 27318), (649, 27552), (650, 27555), (665, 27615), (685, 27705), (694, 27735), (704, 27777), (722, 27828),

Gene: Crestdrop_40 Start: 25203, Stop: 27110, Start Num: 60

Candidate Starts for Crestdrop_40:

(18, 25029), (Start: 60 @25203 has 35 MA's), (85, 25266), (97, 25287), (115, 25341), (182, 25476), (202, 25518), (219, 25563), (276, 25737), (279, 25746), (318, 25836), (329, 25878), (331, 25893), (384, 26079), (423, 26214), (425, 26226), (444, 26259), (500, 26388), (542, 26505), (643, 26778), (650, 26817), (665, 26877), (685, 26967), (694, 26997), (704, 27039), (722, 27090),

Gene: Crete_60 Start: 52291, Stop: 50882, Start Num: 215

Candidate Starts for Crete_60:

(69, 52669), (81, 52618), (103, 52567), (121, 52513), (131, 52483), (Start: 143 @52450 has 3 MA's), (149, 52441), (Start: 162 @52414 has 28 MA's), (Start: 215 @52291 has 28 MA's), (227, 52246), (235, 52204), (254, 52156), (255, 52153), (257, 52147), (258, 52144), (262, 52132), (263, 52126), (285, 52078), (286, 52075), (371, 51955), (377, 51937), (395, 51874), (402, 51850), (403, 51835), (411, 51793), (422, 51742), (430, 51715), (447, 51664), (465, 51604), (466, 51601), (468, 51592), (472, 51574), (487, 51532), (503, 51487), (510, 51469), (585, 51352), (589, 51337), (595, 51316), (641, 51235), (643, 51232), (657, 51175), (658, 51169), (660, 51157), (675, 51106), (679, 51091), (680, 51082), (687, 51043), (690, 51031), (718, 50935), (727, 50920),

Gene: CristinaYang_25 Start: 20580, Stop: 21974, Start Num: 203

Candidate Starts for CristinaYang_25:

(Start: 203 @20580 has 73 MA's), (220, 20637), (259, 20742), (260, 20745), (292, 20829), (350, 20862), (374, 20913), (378, 20919), (399, 21000), (400, 21003), (402, 21009), (406, 21045), (410, 21063), (411, 21066), (417, 21099), (423, 21120), (467, 21252), (474, 21279), (490, 21318), (499, 21339), (500, 21345), (506, 21378), (513, 21393), (516, 21402), (535, 21447), (552, 21483), (591, 21525), (615, 21588), (621, 21606), (649, 21708), (650, 21711), (656, 21729), (657, 21732), (662, 21756), (663, 21765), (684, 21852), (709, 21942), (717, 21966),

Gene: Crosby_42 Start: 31144, Stop: 32538, Start Num: 209

Candidate Starts for Crosby_42:

(Start: 209 @31144 has 13 MA's), (Start: 211 @31147 has 3 MA's), (227, 31222), (231, 31246), (233, 31252), (254, 31276), (259, 31291), (260, 31294), (288, 31366), (341, 31381), (356, 31417), (391, 31516), (409, 31594), (440, 31717), (480, 31852), (492, 31879), (500, 31900), (525, 31978), (538, 32011), (542, 32020), (582, 32062), (607, 32128), (608, 32131), (615, 32152), (621, 32170), (629, 32188), (643, 32242), (649, 32272), (663, 32329), (665, 32332), (679, 32380), (686, 32419), (690, 32434), (708, 32503), (713, 32521), (717, 32530),

Gene: Cruella_72 Start: 52724, Stop: 50799, Start Num: 65

Candidate Starts for Cruella_72:

(32, 52817), (Start: 65 @52724 has 8 MA's), (128, 52553), (150, 52499), (180, 52445), (235, 52295), (297, 52139), (318, 52088), (320, 52085), (369, 51956), (370, 51953), (385, 51881), (390, 51872), (500, 51515), (506, 51482), (592, 51296), (651, 51077), (655, 51065), (659, 51047), (666, 51020), (681, 50957), (689, 50924), (708, 50852),

Gene: Cuke_73 Start: 42303, Stop: 44156, Start Num: 90

Candidate Starts for Cuke_73:

(Start: 90 @42303 has 4 MA's), (137, 42423), (189, 42516), (202, 42549), (229, 42642), (232, 42651), (235, 42660), (252, 42690), (255, 42693), (272, 42750), (284, 42786), (289, 42798), (302, 42825), (310, 42849), (325, 42888), (340, 42942), (348, 42972), (354, 42990), (358, 43002), (402, 43143), (437, 43269), (458, 43326), (461, 43338), (500, 43440), (506, 43473), (513, 43488), (524, 43512), (525, 43515), (534, 43539), (552, 43578), (633, 43773), (649, 43863), (651, 43869), (659, 43899), (683, 43998), (697, 44058), (702, 44076), (705, 44088), (723, 44133), (728, 44139),

Gene: Cybele_40 Start: 25911, Stop: 27818, Start Num: 60

Candidate Starts for Cybele_40:

(Start: 60 @25911 has 35 MA's), (85, 25974), (97, 25995), (115, 26049), (202, 26226), (219, 26271), (276, 26445), (279, 26454), (318, 26544), (384, 26787), (423, 26922), (425, 26934), (444, 26967), (500, 27096), (542, 27213), (592, 27288), (649, 27522), (650, 27525), (665, 27585), (685, 27675), (694, 27705), (704, 27747), (722, 27798),

Gene: Daiboju_26 Start: 21732, Stop: 23129, Start Num: 203

Candidate Starts for Daiboju_26:

(Start: 203 @21732 has 73 MA's), (220, 21792), (252, 21879), (259, 21897), (260, 21900), (292, 21984), (336, 21990), (350, 22017), (374, 22068), (378, 22074), (386, 22125), (391, 22134), (399, 22155), (402, 22164), (406, 22200), (411, 22221), (417, 22254), (423, 22275), (427, 22293), (430, 22299), (440, 22326), (446, 22338), (451, 22353), (467, 22407), (482, 22458), (486, 22464), (490, 22473), (492, 22479), (500, 22500), (506, 22533), (513, 22548), (516, 22557), (591, 22680), (607, 22719), (615, 22743), (620, 22755), (649, 22863), (651, 22869), (654, 22878), (656, 22884), (663, 22920), (684, 23007), (709, 23097), (717, 23121),

Gene: Dakiti_60 Start: 53037, Stop: 51628, Start Num: 215

Candidate Starts for Dakiti_60:

(69, 53415), (81, 53364), (103, 53313), (121, 53259), (131, 53229), (Start: 143 @53196 has 3 MA's), (149, 53187), (Start: 162 @53160 has 28 MA's), (Start: 215 @53037 has 28 MA's), (227, 52992), (235, 52950), (254, 52902), (255, 52899), (257, 52893), (258, 52890), (262, 52878), (263, 52872), (285, 52824), (286, 52821), (371, 52701), (377, 52683), (395, 52620), (402, 52596), (403, 52581), (411, 52539), (422, 52488), (430, 52461), (447, 52410), (465, 52350), (466, 52347), (468, 52338), (472, 52320), (487, 52278), (503, 52233), (504, 52230), (585, 52098), (589, 52083), (595, 52062), (641, 51981), (643, 51978), (657, 51921), (658, 51915), (660, 51903), (675, 51852), (679, 51837), (680, 51828), (687, 51789), (690, 51777), (718, 51681), (727, 51666),

Gene: Dalilpop_75 Start: 57466, Stop: 55409, Start Num: 35

Candidate Starts for Dalilpop_75:

(Start: 35 @57466 has 34 MA's), (235, 56953), (262, 56899), (279, 56839), (281, 56836), (318, 56746), (324, 56728), (342, 56683), (343, 56677), (356, 56638), (377, 56584), (388, 56527), (427, 56380), (441, 56347), (451, 56317), (453, 56311), (461, 56284), (462, 56281), (500, 56161), (522, 56092), (530, 56074), (583, 55969), (586, 55960), (601, 55900), (607, 55861), (617, 55831), (634, 55774), (649, 55714), (658, 55684), (666, 55651), (678, 55609), (719, 55453),

Gene: Damien_61 Start: 46053, Stop: 48110, Start Num: 54

Candidate Starts for Damien_61:

(Start: 54 @46053 has 63 MA's), (76, 46113), (77, 46116), (Start: 113 @46209 has 3 MA's), (116, 46221), (124, 46242), (182, 46365), (184, 46368), (189, 46377), (202, 46410), (208, 46431), (217, 46479), (228, 46521), (255, 46584), (262, 46605), (263, 46611), (279, 46665), (350, 46851), (354, 46863), (361, 46881), (368, 46896), (370, 46902), (461, 47220), (462, 47223), (476, 47268), (497, 47319), (500, 47331), (530, 47421), (534, 47433), (548, 47466), (561, 47490), (577, 47499), (607, 47589), (618, 47622), (648, 47733), (649, 47736), (650, 47739), (651, 47742), (660, 47778), (665, 47796), (681, 47862), (684, 47880), (738, 48057),

Gene: Damp_57 Start: 51773, Stop: 50361, Start Num: 215

Candidate Starts for Damp_57:

(69, 52121), (112, 51992), (142, 51905), (Start: 143 @51902 has 3 MA's), (Start: 215 @51773 has 28 MA's), (227, 51728), (254, 51638), (255, 51635), (257, 51629), (263, 51608), (292, 51545), (371, 51437), (377, 51419), (402, 51332), (403, 51317), (411, 51275), (431, 51194), (447, 51146), (459, 51104), (465, 51086), (466, 51083), (472, 51056), (491, 51005), (503, 50969), (524, 50918), (585, 50834), (591, 50813), (657, 50657), (658, 50651), (660, 50639), (690, 50513), (727, 50399),

Gene: DannyDe_40 Start: 25175, Stop: 27082, Start Num: 60

Candidate Starts for DannyDe_40:

(18, 25001), (Start: 60 @25175 has 35 MA's), (85, 25238), (115, 25313), (182, 25448), (202, 25490), (219, 25535), (276, 25709), (279, 25718), (318, 25808), (329, 25850), (331, 25865), (384, 26051), (423, 26186), (425, 26198), (444, 26231), (500, 26360), (542, 26477), (643, 26750), (650, 26789), (665, 26849), (685, 26939), (694, 26969), (704, 27011), (722, 27062),

Gene: Darwin_73 Start: 51965, Stop: 50040, Start Num: 65

Candidate Starts for Darwin_73:

(32, 52058), (Start: 65 @51965 has 8 MA's), (128, 51794), (150, 51740), (235, 51536), (297, 51380), (318, 51329), (320, 51326), (332, 51284), (369, 51197), (370, 51194), (385, 51122), (390, 51113), (500, 50756), (506, 50723), (531, 50666), (634, 50384), (651, 50318), (655, 50306), (659, 50288), (660, 50282), (666, 50261), (681, 50198), (689, 50165), (699, 50126),

Gene: Dauntless_39 Start: 25497, Stop: 27404, Start Num: 60

Candidate Starts for Dauntless_39:

(18, 25323), (Start: 60 @25497 has 35 MA's), (85, 25560), (97, 25581), (115, 25635), (182, 25770), (194, 25797), (202, 25812), (219, 25857), (276, 26031), (279, 26040), (318, 26130), (329, 26172), (331, 26187), (384, 26373), (423, 26508), (425, 26520), (444, 26553), (500, 26682), (530, 26769), (542, 26799), (643, 27072), (650, 27111), (665, 27171), (685, 27261), (694, 27291), (704, 27333), (722, 27384),

Gene: DaviePasture_60 Start: 40751, Stop: 42664, Start Num: 54

Candidate Starts for DaviePasture_60:

(47, 40736), (Start: 53 @40748 has 13 MA's), (Start: 54 @40751 has 63 MA's), (Start: 66 @40763 has 2 MA's), (78, 40811), (117, 40913), (155, 41003), (173, 41030), (178, 41039), (214, 41111), (235, 41198), (255, 41231), (274, 41294), (282, 41312), (314, 41384), (322, 41411), (368, 41540), (376, 41564), (383, 41606), (400, 41654), (403, 41675), (406, 41696), (423, 41753), (427, 41771), (445, 41807), (458, 41849), (476, 41909), (506, 42005), (508, 42008), (613, 42236), (642, 42326), (649,

42362), (651, 42368), (665, 42422), (677, 42461), (699, 42563), (703, 42578), (709, 42599),

Gene: Delton_54 Start: 40127, Stop: 42070, Start Num: 54

Candidate Starts for Delton_54:

(31, 40058), (Start: 54 @40127 has 63 MA's), (69, 40154), (74, 40178), (94, 40226), (114, 40280), (136, 40340), (145, 40367), (176, 40418), (178, 40421), (196, 40460), (214, 40496), (235, 40583), (272, 40676), (277, 40691), (286, 40712), (328, 40814), (340, 40847), (347, 40871), (370, 40931), (393, 41018), (409, 41093), (445, 41183), (461, 41234), (462, 41237), (495, 41327), (500, 41345), (506, 41378), (530, 41432), (534, 41444), (542, 41462), (583, 41525), (604, 41609), (642, 41726), (649, 41774), (666, 41837), (684, 41921),

Gene: Demikore_78 Start: 49350, Stop: 51383, Start Num: 58

Candidate Starts for Demikore_78:

(Start: 58 @49350 has 8 MA's), (69, 49374), (89, 49437), (115, 49503), (133, 49554), (134, 49557), (189, 49665), (202, 49698), (217, 49737), (Start: 225 @49761 has 1 MA's), (243, 49824), (255, 49842), (256, 49845), (262, 49863), (263, 49869), (286, 49938), (296, 49965), (306, 49977), (321, 50010), (350, 50112), (385, 50235), (398, 50265), (423, 50370), (427, 50388), (460, 50478), (461, 50481), (485, 50583), (493, 50622), (497, 50649), (500, 50661), (513, 50709), (519, 50727), (530, 50754), (534, 50766), (538, 50775), (607, 50913), (622, 50958), (648, 51063), (681, 51192), (689, 51225), (694, 51243), (708, 51297), (722, 51336),

Gene: Demosthenes_55 Start: 52768, Stop: 51074, Start Num: 92

Candidate Starts for Demosthenes_55:

(Start: 86 @52780 has 9 MA's), (Start: 92 @52768 has 2 MA's), (126, 52669), (Start: 135 @52648 has 1 MA's), (168, 52582), (217, 52483), (227, 52447), (229, 52423), (232, 52414), (235, 52405), (254, 52357), (262, 52333), (279, 52291), (286, 52276), (292, 52261), (352, 52204), (353, 52201), (375, 52141), (376, 52138), (395, 52072), (396, 52069), (403, 52033), (404, 52030), (406, 52012), (408, 52003), (411, 51991), (421, 51943), (431, 51910), (438, 51886), (447, 51862), (456, 51838), (472, 51772), (503, 51673), (583, 51541), (585, 51538), (623, 51472), (641, 51421), (643, 51418), (657, 51361), (660, 51343), (687, 51226), (688, 51223), (691, 51211), (727, 51112), (737, 51091),

Gene: Diabla_63 Start: 53692, Stop: 52283, Start Num: 215

Candidate Starts for Diabla_63:

(69, 54070), (81, 54019), (121, 53914), (131, 53884), (Start: 143 @53851 has 3 MA's), (149, 53842), (Start: 162 @53815 has 28 MA's), (Start: 215 @53692 has 28 MA's), (227, 53647), (235, 53605), (254, 53557), (255, 53554), (257, 53548), (258, 53545), (263, 53527), (269, 53506), (285, 53479), (371, 53356), (377, 53338), (402, 53251), (403, 53236), (422, 53143), (447, 53065), (456, 53041), (465, 53005), (466, 53002), (472, 52975), (487, 52933), (503, 52888), (510, 52870), (541, 52804), (585, 52753), (589, 52738), (595, 52717), (634, 52660), (643, 52633), (657, 52576), (658, 52570), (660, 52558), (675, 52507), (680, 52483), (687, 52444), (690, 52432), (691, 52429), (718, 52336), (727, 52321), (737, 52300),

Gene: Dina_47 Start: 36338, Stop: 37714, Start Num: 206

Candidate Starts for Dina_47:

(Start: 206 @36338 has 7 MA's), (Start: 225 @36407 has 1 MA's), (228, 36425), (261, 36518), (283, 36578), (286, 36584), (287, 36587), (373, 36707), (379, 36725), (406, 36842), (464, 36980), (475, 37019), (490, 37052), (492, 37058), (499, 37073), (506, 37112), (532, 37172), (542, 37196), (584, 37232), (613, 37301), (616, 37307), (643, 37388), (666, 37484), (669, 37496), (673, 37508), (684, 37565), (687, 37571), (690, 37583), (697, 37613), (711, 37664),

Gene: Djokovic_50 Start: 36614, Stop: 38668, Start Num: 57

Candidate Starts for Djokovic_50:

(Start: 57 @36614 has 8 MA's), (70, 36638), (95, 36701), (125, 36785), (138, 36827), (234, 37049), (255, 37085), (279, 37160), (294, 37199), (319, 37241), (325, 37259), (328, 37280), (330, 37292), (354, 37352), (359, 37367), (368, 37385), (385, 37463), (393, 37478), (394, 37481), (403, 37520), (406, 37541), (444, 37643), (461, 37700), (467, 37721), (468, 37724), (473, 37736), (495, 37784), (497, 37790), (508, 37838), (520, 37871), (531, 37895), (538, 37913), (552, 37943), (566, 38066), (575, 38099), (578, 38111), (583, 38126), (595, 38165), (604, 38210), (613, 38237), (639, 38321), (655, 38384), (665, 38426), (668, 38435), (670, 38444), (681, 38492), (683, 38501), (684, 38513), (689, 38528), (700, 38570),

Gene: DocB7_048 Start: 43676, Stop: 42174, Start Num: 190

Candidate Starts for DocB7_048:

(Start: 190 @43676 has 3 MA's), (220, 43580), (227, 43553), (232, 43520), (240, 43496), (254, 43466), (283, 43391), (354, 43310), (359, 43295), (395, 43184), (401, 43163), (406, 43124), (442, 42986), (447, 42974), (449, 42971), (456, 42950), (475, 42872), (503, 42812), (583, 42677), (585, 42674), (605, 42623), (614, 42602), (627, 42575), (646, 42509), (653, 42482), (656, 42473), (660, 42452), (670, 42416), (680, 42377), (694, 42311), (725, 42215),

Gene: Dodo_114 Start: 79498, Stop: 77648, Start Num: 63

Candidate Starts for Dodo_114:

(41, 79567), (42, 79561), (Start: 63 @79498 has 10 MA's), (75, 79453), (Start: 79 @79441 has 2 MA's), (134, 79315), (163, 79252), (Start: 215 @79177 has 28 MA's), (249, 79069), (256, 79051), (276, 78982), (287, 78955), (334, 78895), (376, 78730), (409, 78586), (440, 78499), (450, 78472), (461, 78436), (463, 78427), (499, 78370), (500, 78364), (512, 78319), (516, 78307), (526, 78286), (535, 78262), (552, 78226), (573, 78181), (607, 78097), (608, 78094), (610, 78088), (632, 78025), (658, 77923), (680, 77836), (688, 77794), (701, 77743),

Gene: DoobyDoo_59 Start: 39773, Stop: 41686, Start Num: 54

Candidate Starts for DoobyDoo_59:

(Start: 53 @39770 has 13 MA's), (Start: 54 @39773 has 63 MA's), (Start: 66 @39785 has 2 MA's), (78, 39833), (93, 39866), (117, 39935), (155, 40025), (173, 40052), (178, 40061), (214, 40133), (235, 40220), (255, 40253), (274, 40316), (314, 40406), (368, 40562), (376, 40586), (383, 40628), (400, 40676), (403, 40697), (406, 40718), (423, 40775), (445, 40829), (458, 40871), (476, 40931), (506, 41027), (508, 41030), (598, 41207), (613, 41258), (642, 41348), (649, 41384), (651, 41390), (660, 41426), (665, 41444), (677, 41483), (699, 41585), (703, 41600), (709, 41621),

Gene: DrLupo_67 Start: 46291, Stop: 48255, Start Num: 51

Candidate Starts for DrLupo_67:

(16, 46123), (24, 46198), (26, 46204), (Start: 51 @46291 has 1 MA's), (64, 46312), (Start: 66 @46318 has 2 MA's), (67, 46324), (76, 46357), (87, 46390), (108, 46438), (115, 46459), (124, 46486), (133, 46510), (160, 46573), (170, 46591), (182, 46609), (189, 46621), (202, 46654), (217, 46696), (224, 46717), (Start: 225 @46720 has 1 MA's), (228, 46738), (236, 46771), (240, 46777), (255, 46801), (256, 46804), (277, 46876), (361, 47095), (368, 47110), (385, 47188), (406, 47266), (427, 47341), (443, 47374), (495, 47536), (497, 47542), (534, 47668), (535, 47671), (577, 47707), (579, 47713), (607, 47797), (618, 47830), (648, 47941), (649, 47944), (652, 47953), (660, 47986), (666, 48007), (678, 48049), (692, 48112), (698, 48139), (729, 48223),

Gene: DrRobert_25 Start: 20576, Stop: 21970, Start Num: 203

Candidate Starts for DrRobert_25:

(Start: 203 @20576 has 73 MA's), (220, 20633), (259, 20738), (260, 20741), (292, 20825), (350, 20858), (374, 20909), (378, 20915), (399, 20996), (400, 20999), (402, 21005), (406, 21041), (410, 21059), (411, 21062), (417, 21095), (423, 21116), (467, 21248), (474, 21275), (490, 21314), (499, 21335), (500, 21341), (506, 21374), (513, 21389), (516, 21398), (535, 21443), (552, 21479), (591, 21521), (615, 21584), (621, 21602), (649, 21704), (650, 21707), (656, 21725), (657, 21728), (662,

21752), (663, 21761), (684, 21848), (709, 21938), (717, 21962),

Gene: DreamTeam_25 Start: 20615, Stop: 22009, Start Num: 203

Candidate Starts for DreamTeam_25:

(Start: 203 @20615 has 73 MA's), (220, 20672), (259, 20777), (260, 20780), (292, 20864), (350, 20897), (377, 20951), (378, 20954), (402, 21044), (406, 21080), (411, 21101), (417, 21134), (423, 21155), (467, 21287), (474, 21314), (490, 21353), (500, 21380), (506, 21413), (513, 21428), (516, 21437), (535, 21482), (552, 21518), (607, 21599), (615, 21623), (621, 21641), (626, 21653), (643, 21713), (647, 21737), (649, 21743), (650, 21746), (656, 21764), (657, 21767), (662, 21791), (663, 21800), (684, 21887), (698, 21938), (709, 21977),

Gene: Dryad_74 Start: 51068, Stop: 49182, Start Num: 54

Candidate Starts for Dryad_74:

(34, 51137), (Start: 39 @51128 has 1 MA's), (40, 51125), (Start: 54 @51068 has 63 MA's), (85, 50990), (89, 50981), (Start: 113 @50921 has 3 MA's), (119, 50900), (132, 50876), (159, 50813), (202, 50738), (214, 50714), (276, 50516), (279, 50507), (323, 50399), (370, 50243), (400, 50138), (408, 50087), (425, 50027), (460, 49940), (461, 49937), (478, 49883), (506, 49832), (511, 49823), (515, 49811), (530, 49778), (580, 49712), (591, 49685), (592, 49682), (618, 49583), (629, 49556), (650, 49466), (665, 49406), (668, 49397), (672, 49382), (684, 49322), (689, 49307), (699, 49268),

Gene: DumpTruck_58 Start: 39261, Stop: 41165, Start Num: 66

Candidate Starts for DumpTruck_58:

(20, 39126), (23, 39147), (30, 39168), (42, 39198), (Start: 53 @39243 has 13 MA's), (Start: 54 @39246 has 63 MA's), (Start: 66 @39261 has 2 MA's), (78, 39309), (93, 39342), (95, 39345), (133, 39450), (173, 39528), (178, 39537), (214, 39609), (217, 39624), (221, 39633), (252, 39726), (256, 39732), (274, 39792), (354, 40005), (368, 40038), (393, 40131), (398, 40146), (403, 40173), (406, 40194), (445, 40308), (458, 40350), (460, 40359), (473, 40398), (476, 40410), (495, 40455), (497, 40461), (506, 40506), (513, 40521), (578, 40614), (604, 40707), (649, 40860), (660, 40902), (665, 40920), (666, 40923), (699, 41061), (709, 41097), (734, 41151),

Gene: DunneganBoMo_90 Start: 76558, Stop: 78402, Start Num: 59

Candidate Starts for DunneganBoMo_90:

(Start: 59 @76558 has 12 MA's), (167, 76831), (227, 76939), (250, 77005), (273, 77074), (275, 77083), (340, 77158), (411, 77467), (424, 77512), (443, 77551), (450, 77572), (463, 77617), (499, 77674), (500, 77680), (506, 77713), (512, 77725), (516, 77737), (569, 77854), (571, 77860), (606, 77950), (617, 77983), (643, 78067), (666, 78160), (673, 78184), (713, 78352), (714, 78355),

Gene: Eggsie_57 Start: 51628, Stop: 50060, Start Num: 143

Candidate Starts for Eggsie_57:

(69, 51847), (103, 51745), (112, 51718), (121, 51691), (127, 51670), (131, 51661), (Start: 143 @51628 has 3 MA's), (149, 51619), (Start: 162 @51592 has 28 MA's), (Start: 215 @51469 has 28 MA's), (227, 51424), (235, 51382), (254, 51334), (255, 51331), (257, 51325), (258, 51322), (263, 51304), (269, 51283), (285, 51256), (371, 51133), (377, 51115), (402, 51028), (403, 51013), (422, 50920), (447, 50842), (456, 50818), (465, 50782), (466, 50779), (472, 50752), (487, 50710), (503, 50665), (510, 50647), (541, 50581), (585, 50530), (589, 50515), (595, 50494), (634, 50437), (643, 50410), (657, 50353), (658, 50347), (660, 50335), (675, 50284), (680, 50260), (687, 50221), (690, 50209), (691, 50206), (718, 50113), (727, 50098), (737, 50077),

Gene: Ekhein_59 Start: 51454, Stop: 49922, Start Num: 162

Candidate Starts for Ekhein_59:

(69, 51709), (81, 51658), (103, 51607), (121, 51553), (131, 51523), (Start: 143 @51490 has 3 MA's), (149, 51481), (Start: 162 @51454 has 28 MA's), (227, 51286), (235, 51244), (254, 51196), (258, 51184), (262, 51172), (263, 51166), (269, 51145), (285, 51118), (377, 50977), (402, 50890), (403,

50875), (405, 50863), (411, 50833), (422, 50782), (430, 50755), (447, 50704), (459, 50662), (465, 50644), (466, 50641), (472, 50614), (487, 50572), (503, 50527), (585, 50392), (589, 50377), (595, 50356), (634, 50299), (641, 50275), (643, 50272), (657, 50215), (658, 50209), (659, 50203), (660, 50197), (675, 50146), (680, 50122), (687, 50083), (690, 50071), (691, 50068), (718, 49975), (727, 49960), (737, 49939),

Gene: Ellewin_89 Start: 75969, Stop: 77813, Start Num: 59

Candidate Starts for Ellewin_89:

(Start: 59 @75969 has 12 MA's), (167, 76242), (227, 76350), (250, 76416), (273, 76485), (275, 76494), (340, 76569), (365, 76665), (411, 76878), (424, 76923), (443, 76962), (450, 76983), (463, 77028), (500, 77091), (506, 77124), (512, 77136), (516, 77148), (569, 77265), (571, 77271), (594, 77334), (610, 77373), (617, 77394), (643, 77478), (666, 77571), (673, 77595), (713, 77763), (714, 77766),

Gene: Emianna_72 Start: 56707, Stop: 54641, Start Num: 35

Candidate Starts for Emianna_72:

(2, 57205), (5, 57004), (8, 56911), (9, 56899), (12, 56881), (Start: 35 @56707 has 34 MA's), (Start: 79 @56569 has 2 MA's), (88, 56545), (178, 56341), (201, 56296), (235, 56188), (279, 56074), (281, 56071), (318, 55981), (320, 55978), (342, 55918), (383, 55780), (388, 55762), (398, 55738), (427, 55615), (461, 55510), (500, 55384), (515, 55330), (580, 55204), (583, 55195), (591, 55171), (604, 55099), (607, 55093), (617, 55063), (634, 55006), (649, 54946), (666, 54883), (684, 54802),

Gene: Emmetator_93 Start: 76561, Stop: 78405, Start Num: 59

Candidate Starts for Emmetator_93:

(Start: 59 @76561 has 12 MA's), (167, 76834), (227, 76942), (250, 77008), (273, 77077), (275, 77086), (340, 77161), (411, 77470), (424, 77515), (443, 77554), (450, 77575), (463, 77620), (499, 77677), (500, 77683), (506, 77716), (512, 77728), (516, 77740), (569, 77857), (571, 77863), (606, 77953), (617, 77986), (643, 78070), (666, 78163), (673, 78187), (713, 78355), (714, 78358),

Gene: Ennea_79 Start: 57918, Stop: 55861, Start Num: 35

Candidate Starts for Ennea_79:

(6, 58206), (10, 58098), (Start: 35 @57918 has 34 MA's), (189, 57543), (236, 57402), (262, 57351), (279, 57291), (281, 57288), (311, 57216), (318, 57198), (342, 57135), (343, 57129), (352, 57102), (377, 57036), (383, 56997), (388, 56979), (398, 56955), (427, 56832), (441, 56799), (461, 56736), (500, 56613), (522, 56544), (530, 56526), (583, 56421), (586, 56412), (601, 56352), (604, 56319), (607, 56313), (617, 56283), (634, 56226), (649, 56166), (658, 56136), (666, 56103), (707, 55938),

Gene: Erasmago_105 Start: 76053, Stop: 74113, Start Num: 63

Candidate Starts for Erasmago_105:

(Start: 63 @76053 has 10 MA's), (111, 75927), (163, 75807), (Start: 215 @75732 has 28 MA's), (235, 75651), (242, 75639), (255, 75609), (376, 75189), (409, 75045), (430, 74976), (441, 74955), (461, 74895), (463, 74886), (468, 74871), (500, 74823), (506, 74790), (512, 74778), (526, 74745), (552, 74685), (559, 74670), (573, 74640), (608, 74553), (610, 74547), (632, 74484), (637, 74457), (659, 74376), (665, 74352), (680, 74295), (688, 74253), (696, 74217),

Gene: Erk16_52 Start: 39875, Stop: 41818, Start Num: 54

Candidate Starts for Erk16_52:

(37, 39812), (Start: 54 @39875 has 63 MA's), (69, 39902), (94, 39974), (114, 40028), (136, 40088), (145, 40115), (176, 40166), (196, 40208), (214, 40244), (235, 40331), (272, 40424), (277, 40439), (286, 40460), (328, 40562), (340, 40595), (347, 40619), (370, 40679), (393, 40766), (409, 40841), (445, 40931), (461, 40982), (462, 40985), (495, 41075), (500, 41093), (506, 41126), (534, 41192), (542, 41210), (583, 41273), (604, 41357), (642, 41474), (649, 41522), (666, 41585), (684, 41669),

Gene: Erudite_39 Start: 25497, Stop: 27404, Start Num: 60

Candidate Starts for Erudite_39:

(18, 25323), (Start: 60 @25497 has 35 MA's), (85, 25560), (97, 25581), (115, 25635), (182, 25770), (194, 25797), (202, 25812), (219, 25857), (276, 26031), (279, 26040), (318, 26130), (329, 26172), (331, 26187), (384, 26373), (423, 26508), (425, 26520), (444, 26553), (500, 26682), (530, 26769), (542, 26799), (643, 27072), (650, 27111), (665, 27171), (685, 27261), (694, 27291), (704, 27333), (722, 27384),

Gene: Erutan_60 Start: 40423, Stop: 42336, Start Num: 54

Candidate Starts for Erutan_60:

(19, 40297), (21, 40306), (22, 40318), (33, 40351), (Start: 53 @40420 has 13 MA's), (Start: 54 @40423 has 63 MA's), (Start: 66 @40435 has 2 MA's), (78, 40483), (93, 40516), (155, 40675), (173, 40702), (178, 40711), (214, 40783), (235, 40870), (255, 40903), (274, 40966), (314, 41056), (322, 41083), (368, 41212), (376, 41236), (383, 41278), (400, 41326), (403, 41347), (406, 41368), (423, 41425), (445, 41479), (458, 41521), (476, 41581), (506, 41677), (508, 41680), (613, 41908), (642, 41998), (649, 42034), (651, 42040), (665, 42094), (677, 42133), (699, 42235), (703, 42250), (709, 42271),

Gene: EstebanJulior_26 Start: 21743, Stop: 23140, Start Num: 203

Candidate Starts for EstebanJulior_26:

(Start: 203 @21743 has 73 MA's), (220, 21803), (259, 21908), (260, 21911), (292, 21995), (350, 22028), (374, 22079), (378, 22085), (399, 22166), (402, 22175), (406, 22211), (410, 22229), (411, 22232), (417, 22265), (423, 22286), (467, 22418), (486, 22475), (490, 22484), (499, 22505), (500, 22511), (506, 22544), (513, 22559), (538, 22619), (552, 22649), (607, 22730), (621, 22772), (633, 22805), (647, 22868), (650, 22877), (654, 22889), (656, 22895), (659, 22910), (662, 22922), (663, 22931), (684, 23018), (700, 23075), (709, 23108),

Gene: Eunoia_26 Start: 21745, Stop: 23139, Start Num: 203

Candidate Starts for Eunoia_26:

(Start: 203 @21745 has 73 MA's), (220, 21802), (252, 21889), (259, 21907), (260, 21910), (292, 21994), (350, 22027), (374, 22078), (378, 22084), (391, 22144), (402, 22174), (406, 22210), (410, 22228), (423, 22285), (427, 22303), (430, 22309), (440, 22336), (467, 22417), (474, 22444), (482, 22468), (490, 22483), (500, 22510), (506, 22543), (513, 22558), (591, 22690), (606, 22726), (615, 22753), (620, 22765), (626, 22783), (649, 22873), (651, 22879), (656, 22894), (657, 22897), (663, 22930), (680, 22990), (684, 23017), (700, 23074), (709, 23107), (717, 23131),

Gene: Exiguo_58 Start: 51466, Stop: 49934, Start Num: 162

Candidate Starts for Exiguo_58:

(69, 51721), (81, 51670), (103, 51619), (121, 51565), (131, 51535), (Start: 143 @51502 has 3 MA's), (149, 51493), (Start: 162 @51466 has 28 MA's), (227, 51298), (235, 51256), (254, 51208), (258, 51196), (262, 51184), (263, 51178), (269, 51157), (285, 51130), (377, 50989), (402, 50902), (403, 50887), (405, 50875), (411, 50845), (422, 50794), (430, 50767), (447, 50716), (459, 50674), (465, 50656), (466, 50653), (472, 50626), (487, 50584), (503, 50539), (585, 50404), (589, 50389), (595, 50368), (634, 50311), (641, 50287), (643, 50284), (657, 50227), (658, 50221), (659, 50215), (660, 50209), (675, 50158), (680, 50134), (687, 50095), (690, 50083), (691, 50080), (718, 49987), (727, 49972), (737, 49951),

Gene: Ezurina_37 Start: 27463, Stop: 25631, Start Num: 63

Candidate Starts for Ezurina_37:

(Start: 63 @27463 has 10 MA's), (Start: 79 @27406 has 2 MA's), (175, 27205), (227, 27070), (281, 26908), (340, 26851), (344, 26836), (376, 26686), (378, 26680), (380, 26665), (391, 26620), (403, 26572), (406, 26551), (410, 26533), (425, 26482), (463, 26377), (500, 26314), (529, 26242), (569, 26161), (581, 26128), (592, 26095), (597, 26077), (606, 26059), (607, 26056), (620, 26020), (649, 25912), (652, 25903), (668, 25843), (680, 25795), (689, 25747),

Gene: FelixAlejandro_64 Start: 54160, Stop: 52628, Start Num: 162

Candidate Starts for FelixAlejandro_64:

(69, 54415), (81, 54364), (121, 54259), (131, 54229), (Start: 143 @54196 has 3 MA's), (149, 54187), (Start: 162 @54160 has 28 MA's), (217, 54028), (227, 53992), (235, 53950), (242, 53932), (254, 53902), (258, 53890), (262, 53878), (263, 53872), (269, 53851), (377, 53683), (402, 53596), (403, 53581), (405, 53569), (411, 53539), (422, 53488), (447, 53410), (456, 53386), (459, 53368), (465, 53350), (466, 53347), (468, 53338), (472, 53320), (503, 53233), (585, 53098), (589, 53083), (595, 53062), (641, 52981), (643, 52978), (657, 52921), (658, 52915), (660, 52903), (675, 52852), (680, 52828), (687, 52789), (690, 52777), (691, 52774), (718, 52681), (727, 52666), (737, 52645),

Gene: FireCastle_33 Start: 23203, Stop: 24633, Start Num: 205

Candidate Starts for FireCastle_33:

(164, 23134), (Start: 205 @23203 has 5 MA's), (Start: 207 @23206 has 19 MA's), (361, 23524), (377, 23563), (381, 23584), (403, 23671), (406, 23692), (500, 24007), (502, 24028), (513, 24055), (524, 24082), (525, 24085), (535, 24112), (538, 24118), (554, 24154), (594, 24202), (608, 24232), (634, 24316), (643, 24337), (657, 24391), (660, 24409), (663, 24424), (668, 24436), (679, 24475), (684, 24511), (687, 24517), (690, 24529), (706, 24592), (718, 24628),

Gene: Flakey_58 Start: 52330, Stop: 50798, Start Num: 162

Candidate Starts for Flakey_58:

(69, 52585), (81, 52534), (103, 52483), (121, 52429), (131, 52399), (Start: 143 @52366 has 3 MA's), (149, 52357), (Start: 162 @52330 has 28 MA's), (227, 52162), (235, 52120), (254, 52072), (258, 52060), (262, 52048), (263, 52042), (269, 52021), (285, 51994), (377, 51853), (402, 51766), (403, 51751), (405, 51739), (411, 51709), (422, 51658), (430, 51631), (447, 51580), (459, 51538), (465, 51520), (466, 51517), (472, 51490), (487, 51448), (503, 51403), (585, 51268), (589, 51253), (595, 51232), (634, 51175), (641, 51151), (643, 51148), (657, 51091), (658, 51085), (659, 51079), (660, 51073), (675, 51022), (680, 50998), (687, 50959), (690, 50947), (691, 50944), (718, 50851), (727, 50836), (737, 50815),

Gene: Flapper_75 Start: 57019, Stop: 54962, Start Num: 35

Candidate Starts for Flapper_75:

(6, 57304), (11, 57187), (15, 57169), (Start: 35 @57019 has 34 MA's), (115, 56794), (235, 56506), (262, 56452), (272, 56416), (279, 56392), (281, 56389), (315, 56311), (318, 56299), (324, 56281), (342, 56236), (343, 56230), (356, 56191), (377, 56137), (383, 56098), (388, 56080), (427, 55933), (441, 55900), (451, 55870), (453, 55864), (461, 55837), (500, 55714), (522, 55645), (530, 55627), (583, 55522), (586, 55513), (592, 55495), (601, 55453), (607, 55414), (617, 55384), (624, 55366), (634, 55327), (649, 55267), (658, 55237), (666, 55204), (678, 55162), (719, 55006),

Gene: Float294_74 Start: 57824, Stop: 55767, Start Num: 35

Candidate Starts for Float294_74:

(10, 58004), (Start: 35 @57824 has 34 MA's), (189, 57449), (228, 57341), (236, 57308), (262, 57257), (279, 57197), (281, 57194), (311, 57122), (318, 57104), (342, 57041), (343, 57035), (352, 57008), (377, 56942), (383, 56903), (388, 56885), (398, 56861), (427, 56738), (441, 56705), (461, 56642), (500, 56519), (522, 56450), (530, 56432), (583, 56327), (601, 56258), (607, 56219), (615, 56195), (617, 56189), (634, 56132), (649, 56072), (658, 56042), (666, 56009), (707, 55844),

Gene: FloraSnap32_101 Start: 79635, Stop: 81473, Start Num: 59

Candidate Starts for FloraSnap32_101:

(Start: 59 @79635 has 12 MA's), (120, 79794), (167, 79890), (Start: 215 @79950 has 28 MA's), (224, 79980), (263, 80100), (278, 80151), (338, 80211), (443, 80607), (450, 80628), (463, 80673), (499, 80730), (500, 80736), (506, 80769), (512, 80781), (516, 80793), (523, 80808), (534, 80838), (552, 80877), (579, 80934), (581, 80940), (592, 80973), (617, 81042), (643, 81126), (660, 81198), (673, 81243), (716, 81417), (736, 81459),

Gene: Fluke_29 Start: 22148, Stop: 23548, Start Num: 203

Candidate Starts for Fluke_29:

(Start: 203 @22148 has 73 MA's), (220, 22211), (259, 22316), (260, 22319), (292, 22403), (350, 22436), (374, 22487), (378, 22493), (399, 22574), (400, 22577), (402, 22583), (406, 22619), (410, 22637), (411, 22640), (417, 22673), (423, 22694), (427, 22712), (440, 22745), (467, 22826), (474, 22853), (486, 22883), (490, 22892), (500, 22919), (506, 22952), (513, 22967), (535, 23021), (544, 23042), (550, 23054), (578, 23066), (651, 23288), (654, 23297), (656, 23303), (663, 23339), (680, 23399), (684, 23426), (709, 23516),

Gene: Forza_170 Start: 96758, Stop: 94848, Start Num: 58

Candidate Starts for Forza_170:

(Start: 58 @96758 has 8 MA's), (138, 96554), (163, 96506), (193, 96461), (217, 96380), (222, 96368), (255, 96263), (263, 96236), (334, 96131), (344, 96107), (381, 95942), (461, 95675), (463, 95666), (473, 95639), (506, 95570), (592, 95321), (613, 95255), (622, 95231), (659, 95096), (676, 95036), (690, 94964),

Gene: FountainFog_39 Start: 25221, Stop: 27128, Start Num: 60

Candidate Starts for FountainFog_39:

(Start: 60 @25221 has 35 MA's), (85, 25284), (97, 25305), (115, 25359), (194, 25521), (202, 25536), (219, 25581), (276, 25755), (279, 25764), (318, 25854), (320, 25857), (329, 25896), (331, 25911), (384, 26097), (412, 26205), (423, 26232), (425, 26244), (500, 26406), (542, 26523), (649, 26832), (650, 26835), (665, 26895), (685, 26985), (694, 27015), (704, 27057), (722, 27108),

Gene: Fowlmouth_74 Start: 44820, Stop: 46667, Start Num: 90

Candidate Starts for Fowlmouth_74:

(Start: 90 @44820 has 4 MA's), (100, 44838), (Start: 113 @44874 has 3 MA's), (130, 44925), (189, 45033), (202, 45066), (224, 45126), (232, 45168), (252, 45207), (284, 45303), (289, 45315), (302, 45342), (308, 45357), (310, 45366), (325, 45405), (327, 45420), (354, 45507), (358, 45519), (385, 45618), (388, 45624), (398, 45648), (409, 45708), (437, 45786), (449, 45813), (458, 45843), (461, 45855), (468, 45879), (499, 45951), (500, 45957), (506, 45990), (513, 46005), (524, 46029), (525, 46032), (534, 46056), (649, 46380), (652, 46389), (659, 46416), (665, 46440), (678, 46485), (684, 46527), (697, 46575), (702, 46593), (723, 46650),

Gene: Foxboro_72 Start: 56919, Stop: 54853, Start Num: 35

Candidate Starts for Foxboro_72:

(8, 57123), (9, 57111), (12, 57093), (Start: 35 @56919 has 34 MA's), (Start: 79 @56781 has 2 MA's), (88, 56757), (178, 56553), (201, 56508), (235, 56400), (279, 56286), (281, 56283), (318, 56193), (320, 56190), (342, 56130), (383, 55992), (388, 55974), (398, 55950), (427, 55827), (461, 55722), (500, 55596), (515, 55542), (580, 55416), (583, 55407), (591, 55383), (604, 55311), (607, 55305), (617, 55275), (634, 55218), (649, 55158), (666, 55095), (684, 55014),

Gene: FreddieHg_40 Start: 25185, Stop: 27092, Start Num: 60

Candidate Starts for FreddieHg_40:

(18, 25011), (Start: 60 @25185 has 35 MA's), (85, 25248), (97, 25269), (115, 25323), (182, 25458), (202, 25500), (219, 25545), (276, 25719), (279, 25728), (318, 25818), (329, 25860), (331, 25875), (384, 26061), (423, 26196), (425, 26208), (444, 26241), (500, 26370), (542, 26487), (643, 26760), (650, 26799), (665, 26859), (685, 26949), (694, 26979), (704, 27021), (722, 27072),

Gene: Frizzle_34 Start: 32091, Stop: 30688, Start Num: 211

Candidate Starts for Frizzle_34:

(105, 32331), (107, 32328), (146, 32217), (Start: 211 @32091 has 3 MA's), (227, 32016), (231, 31992), (232, 31989), (254, 31959), (255, 31956), (340, 31845), (377, 31770), (378, 31767), (381, 31749),

(386, 31716), (387, 31713), (399, 31686), (403, 31662), (407, 31635), (440, 31509), (441, 31506), (480, 31383), (481, 31380), (496, 31350), (497, 31347), (523, 31263), (542, 31218), (621, 31071), (632, 31041), (633, 31038), (687, 30819), (694, 30777),

Gene: FrostedClock_104 Start: 80935, Stop: 82773, Start Num: 59

Candidate Starts for FrostedClock_104:

(Start: 59 @80935 has 12 MA's), (84, 81016), (120, 81094), (167, 81190), (Start: 215 @81250 has 28 MA's), (224, 81280), (263, 81400), (278, 81451), (338, 81511), (420, 81850), (443, 81907), (450, 81928), (463, 81973), (499, 82030), (500, 82036), (506, 82069), (512, 82081), (516, 82093), (534, 82138), (552, 82177), (579, 82234), (581, 82240), (592, 82273), (617, 82342), (643, 82426), (673, 82543), (716, 82717), (736, 82759),

Gene: Fudan_126 Start: 67386, Stop: 68852, Start Num: 229

Candidate Starts for Fudan_126:

(Start: 205 @67281 has 5 MA's), (226, 67362), (229, 67386), (258, 67452), (292, 67533), (354, 67599), (378, 67665), (379, 67674), (402, 67752), (409, 67803), (435, 67905), (441, 67926), (443, 67929), (458, 67980), (459, 67989), (463, 68004), (467, 68016), (480, 68064), (488, 68079), (607, 68349), (611, 68361), (620, 68385), (645, 68472), (663, 68565), (668, 68577), (671, 68589), (693, 68697), (694, 68709), (709, 68766), (712, 68778), (714, 68784), (737, 68832),

Gene: Fulcrum_60 Start: 40439, Stop: 42352, Start Num: 54

Candidate Starts for Fulcrum_60:

(19, 40313), (21, 40322), (22, 40334), (33, 40367), (Start: 53 @40436 has 13 MA's), (Start: 54 @40439 has 63 MA's), (Start: 66 @40451 has 2 MA's), (78, 40499), (93, 40532), (117, 40601), (155, 40691), (173, 40718), (178, 40727), (214, 40799), (255, 40919), (274, 40982), (314, 41072), (322, 41099), (368, 41228), (376, 41252), (383, 41294), (393, 41321), (400, 41342), (403, 41363), (406, 41384), (423, 41441), (427, 41459), (445, 41495), (458, 41537), (476, 41597), (506, 41693), (508, 41696), (613, 41924), (642, 42014), (649, 42050), (651, 42056), (665, 42110), (677, 42149), (699, 42251), (703, 42266), (709, 42287),

Gene: Fury_82 Start: 56141, Stop: 54093, Start Num: 35

Candidate Starts for Fury_82:

(Start: 35 @56141 has 34 MA's), (83, 55988), (95, 55973), (124, 55892), (189, 55769), (201, 55739), (235, 55631), (255, 55598), (270, 55547), (281, 55514), (318, 55424), (327, 55391), (342, 55361), (369, 55286), (388, 55205), (403, 55154), (427, 55058), (441, 55025), (453, 54989), (461, 54962), (499, 54845), (500, 54839), (522, 54770), (530, 54752), (534, 54740), (601, 54578), (607, 54545), (617, 54515), (622, 54500), (634, 54458), (666, 54335), (684, 54254), (692, 54230), (707, 54170),

Gene: GMA2_64 Start: 67776, Stop: 65812, Start Num: 59

Candidate Starts for GMA2_64:

(Start: 59 @67776 has 12 MA's), (111, 67644), (217, 67386), (255, 67269), (257, 67263), (263, 67242), (276, 67197), (334, 67137), (344, 67113), (355, 67077), (366, 67011), (376, 66972), (386, 66918), (403, 66864), (460, 66684), (463, 66672), (506, 66576), (514, 66558), (532, 66504), (575, 66342), (622, 66198), (651, 66093), (666, 66036), (676, 66003), (709, 65859),

Gene: GMA3_58 Start: 50868, Stop: 49351, Start Num: 190

Candidate Starts for GMA3_58:

(80, 51117), (82, 51111), (110, 51039), (Start: 190 @50868 has 3 MA's), (220, 50772), (227, 50745), (229, 50727), (232, 50718), (244, 50691), (254, 50673), (263, 50643), (272, 50613), (283, 50592), (292, 50571), (359, 50493), (371, 50463), (376, 50448), (380, 50427), (404, 50334), (410, 50298), (422, 50244), (447, 50166), (466, 50103), (472, 50076), (477, 50061), (479, 50052), (507, 49989), (524, 49950), (552, 49890), (582, 49869), (583, 49866), (585, 49863), (597, 49815), (649, 49653), (660, 49611), (674, 49563), (687, 49497), (690, 49485),

Gene: GMA7_51 Start: 46927, Stop: 45296, Start Num: 104

Candidate Starts for GMA7_51:

(Start: 104 @46927 has 3 MA's), (109, 46915), (127, 46864), (129, 46858), (157, 46801), (227, 46660), (235, 46618), (239, 46606), (254, 46570), (255, 46567), (263, 46540), (279, 46504), (285, 46492), (292, 46477), (371, 46369), (402, 46264), (403, 46249), (431, 46126), (447, 46078), (456, 46054), (459, 46036), (472, 45988), (491, 45937), (503, 45901), (510, 45883), (585, 45766), (609, 45715), (634, 45673), (649, 45613), (660, 45571), (675, 45520), (680, 45496), (727, 45334), (737, 45313),

Gene: GOATification_60 Start: 40439, Stop: 42352, Start Num: 54

Candidate Starts for GOATification_60:

(19, 40313), (21, 40322), (22, 40334), (33, 40367), (Start: 53 @40436 has 13 MA's), (Start: 54 @40439 has 63 MA's), (Start: 66 @40451 has 2 MA's), (78, 40499), (93, 40532), (117, 40601), (155, 40691), (173, 40718), (178, 40727), (214, 40799), (255, 40919), (274, 40982), (314, 41072), (322, 41099), (368, 41228), (376, 41252), (383, 41294), (393, 41321), (400, 41342), (403, 41363), (406, 41384), (423, 41441), (427, 41459), (445, 41495), (458, 41537), (476, 41597), (506, 41693), (508, 41696), (613, 41924), (642, 42014), (649, 42050), (651, 42056), (665, 42110), (677, 42149), (699, 42251), (703, 42266), (709, 42287),

Gene: GRU1_61 Start: 48864, Stop: 46807, Start Num: 35

Candidate Starts for GRU1_61:

(11, 49032), (Start: 35 @48864 has 34 MA's), (224, 48402), (235, 48351), (279, 48237), (281, 48234), (315, 48156), (318, 48144), (324, 48126), (342, 48081), (343, 48075), (356, 48036), (377, 47982), (383, 47943), (388, 47925), (427, 47778), (441, 47745), (453, 47709), (461, 47682), (500, 47559), (522, 47490), (530, 47472), (538, 47451), (583, 47367), (601, 47298), (607, 47259), (617, 47229), (634, 47172), (649, 47112), (658, 47082), (666, 47049), (678, 47007), (719, 46851),

Gene: GTE7_50 Start: 46958, Stop: 45327, Start Num: 104

Candidate Starts for GTE7_50:

(Start: 104 @46958 has 3 MA's), (109, 46946), (127, 46895), (129, 46889), (157, 46832), (227, 46691), (235, 46649), (239, 46637), (254, 46601), (255, 46598), (263, 46571), (285, 46523), (292, 46508), (371, 46400), (402, 46295), (403, 46280), (431, 46157), (447, 46109), (456, 46085), (459, 46067), (472, 46019), (491, 45968), (503, 45932), (510, 45914), (585, 45797), (609, 45746), (634, 45704), (649, 45644), (660, 45602), (675, 45551), (680, 45527), (727, 45365), (737, 45344),

Gene: GTE8_60 Start: 49561, Stop: 47633, Start Num: 79

Candidate Starts for GTE8_60:

(8, 49903), (12, 49873), (17, 49798), (Start: 35 @49699 has 34 MA's), (Start: 79 @49561 has 2 MA's), (88, 49537), (201, 49288), (235, 49180), (279, 49066), (281, 49063), (318, 48973), (320, 48970), (342, 48910), (388, 48754), (393, 48745), (398, 48730), (427, 48607), (461, 48502), (468, 48478), (500, 48376), (515, 48322), (525, 48301), (583, 48187), (604, 48091), (607, 48085), (617, 48055), (631, 48016), (634, 47998), (649, 47938), (666, 47875), (684, 47794), (707, 47710),

Gene: Gagieri_70 Start: 52937, Stop: 50901, Start Num: 36

Candidate Starts for Gagieri_70:

(3, 53405), (4, 53399), (Start: 36 @52937 has 6 MA's), (72, 52829), (201, 52544), (224, 52487), (235, 52436), (243, 52421), (276, 52331), (281, 52319), (292, 52292), (318, 52226), (344, 52154), (358, 52112), (370, 52085), (385, 52013), (403, 51956), (461, 51776), (468, 51752), (488, 51689), (500, 51653), (530, 51566), (592, 51434), (600, 51395), (601, 51392), (634, 51260), (649, 51200), (666, 51137), (678, 51095), (692, 51032),

Gene: GalacticEye_57 Start: 52570, Stop: 51158, Start Num: 215

Candidate Starts for GalacticEye_57:

(69, 52918), (112, 52789), (142, 52702), (Start: 143 @52699 has 3 MA's), (Start: 215 @52570 has 28 MA's), (227, 52525), (254, 52435), (255, 52432), (257, 52426), (263, 52405), (292, 52342), (371, 52234), (377, 52216), (402, 52129), (403, 52114), (411, 52072), (431, 51991), (447, 51943), (459, 51901), (465, 51883), (466, 51880), (472, 51853), (491, 51802), (503, 51766), (524, 51715), (585, 51631), (591, 51610), (657, 51454), (658, 51448), (660, 51436), (690, 51310), (727, 51196),

Gene: Gallia_72 Start: 56704, Stop: 54734, Start Num: 65

Candidate Starts for Gallia_72:

(Start: 65 @56704 has 8 MA's), (114, 56566), (187, 56410), (236, 56266), (276, 56164), (318, 56059), (370, 55918), (393, 55831), (451, 55624), (458, 55603), (473, 55555), (500, 55459), (506, 55426), (531, 55369), (534, 55360), (607, 55171), (613, 55150), (659, 54988), (666, 54961), (681, 54898), (684, 54880),

Gene: Garnacho_117 Start: 66839, Stop: 68410, Start Num: 205

Candidate Starts for Garnacho_117:

(Start: 205 @66839 has 5 MA's), (226, 66920), (227, 66926), (229, 66944), (230, 66947), (258, 67010), (354, 67157), (378, 67223), (396, 67286), (409, 67361), (435, 67463), (443, 67487), (458, 67538), (459, 67547), (463, 67562), (466, 67568), (467, 67574), (480, 67622), (488, 67637), (638, 68012), (668, 68135), (671, 68147), (694, 68267), (712, 68336),

Gene: Genamy16_63 Start: 39814, Stop: 41730, Start Num: 53

Candidate Starts for Genamy16_63:

(Start: 53 @39814 has 13 MA's), (Start: 54 @39817 has 63 MA's), (Start: 66 @39829 has 2 MA's), (78, 39877), (93, 39910), (145, 40051), (155, 40069), (173, 40096), (178, 40105), (214, 40177), (255, 40297), (274, 40360), (314, 40450), (322, 40477), (368, 40606), (376, 40630), (383, 40672), (385, 40684), (393, 40699), (400, 40720), (403, 40741), (406, 40762), (423, 40819), (427, 40837), (445, 40873), (458, 40915), (476, 40975), (506, 41071), (508, 41074), (598, 41251), (613, 41302), (642, 41392), (649, 41428), (651, 41434), (665, 41488), (677, 41527), (699, 41629), (703, 41644), (709, 41665),

Gene: Gerri43_39 Start: 26376, Stop: 24544, Start Num: 63

Candidate Starts for Gerri43_39:

(Start: 63 @26376 has 10 MA's), (Start: 79 @26319 has 2 MA's), (175, 26118), (227, 25983), (273, 25848), (281, 25821), (340, 25764), (344, 25749), (361, 25695), (376, 25599), (378, 25593), (380, 25578), (391, 25533), (403, 25485), (406, 25464), (410, 25446), (425, 25395), (460, 25302), (463, 25290), (500, 25227), (529, 25155), (558, 25095), (569, 25074), (592, 25008), (597, 24990), (606, 24972), (607, 24969), (620, 24933), (649, 24825), (652, 24816), (668, 24756), (680, 24708),

Gene: Ghobes_35 Start: 32092, Stop: 30689, Start Num: 211

Candidate Starts for Ghobes_35:

(105, 32332), (107, 32329), (146, 32218), (Start: 211 @32092 has 3 MA's), (227, 32017), (231, 31993), (232, 31990), (254, 31960), (255, 31957), (340, 31846), (377, 31771), (378, 31768), (386, 31717), (387, 31714), (399, 31687), (403, 31663), (407, 31636), (440, 31510), (441, 31507), (480, 31384), (481, 31381), (496, 31351), (497, 31348), (523, 31264), (542, 31219), (606, 31117), (621, 31072), (632, 31042), (633, 31039), (657, 30946), (659, 30934), (687, 30820), (694, 30778),

Gene: GiJojo_116 Start: 68346, Stop: 69914, Start Num: 207

Candidate Starts for GiJojo_116:

(Start: 207 @68346 has 19 MA's), (226, 68424), (227, 68430), (230, 68451), (232, 68457), (250, 68493), (258, 68514), (283, 68577), (285, 68580), (292, 68595), (354, 68661), (378, 68727), (379, 68736), (409, 68865), (435, 68967), (443, 68991), (446, 69003), (458, 69042), (459, 69051), (467, 69078), (488, 69141), (607, 69411), (645, 69534), (663, 69627), (668, 69639), (694, 69771), (712, 69840), (714, 69846), (737, 69894),

Gene: Gibbin_62 Start: 41245, Stop: 43161, Start Num: 53

Candidate Starts for Gibbin_62:

(19, 41122), (21, 41131), (22, 41143), (33, 41176), (47, 41233), (Start: 53 @41245 has 13 MA's), (Start: 54 @41248 has 63 MA's), (Start: 66 @41260 has 2 MA's), (78, 41308), (93, 41341), (117, 41410), (155, 41500), (173, 41527), (178, 41536), (214, 41608), (235, 41695), (255, 41728), (274, 41791), (314, 41881), (368, 42037), (376, 42061), (383, 42103), (400, 42151), (403, 42172), (406, 42193), (423, 42250), (427, 42268), (445, 42304), (458, 42346), (476, 42406), (506, 42502), (508, 42505), (613, 42733), (642, 42823), (649, 42859), (651, 42865), (665, 42919), (677, 42958), (699, 43060), (703, 43075), (709, 43096),

Gene: Gibbles_56 Start: 50443, Stop: 48953, Start Num: 185

Candidate Starts for Gibbles_56:

(Start: 185 @50443 has 5 MA's), (217, 50350), (220, 50341), (224, 50329), (227, 50314), (229, 50296), (255, 50239), (277, 50167), (278, 50164), (351, 50071), (362, 50038), (375, 50005), (376, 50002), (380, 49981), (402, 49912), (406, 49876), (425, 49789), (441, 49738), (447, 49726), (449, 49723), (458, 49693), (477, 49621), (479, 49612), (538, 49489), (541, 49483), (643, 49309), (653, 49264), (660, 49234), (732, 48982),

Gene: Gibson_70 Start: 50318, Stop: 48432, Start Num: 54

Candidate Starts for Gibson_70:

(Start: 54 @50318 has 63 MA's), (64, 50303), (85, 50240), (89, 50231), (132, 50126), (148, 50087), (159, 50063), (202, 49988), (214, 49964), (264, 49805), (276, 49766), (279, 49757), (323, 49649), (358, 49541), (400, 49388), (408, 49337), (425, 49277), (460, 49190), (461, 49187), (506, 49082), (511, 49073), (515, 49061), (580, 48962), (613, 48845), (618, 48833), (629, 48806), (650, 48716), (655, 48701), (668, 48647), (681, 48590), (709, 48482), (715, 48464),

Gene: Gilda_40 Start: 25935, Stop: 27842, Start Num: 60

Candidate Starts for Gilda_40:

(Start: 60 @25935 has 35 MA's), (85, 25998), (97, 26019), (115, 26073), (202, 26250), (219, 26295), (276, 26469), (279, 26478), (318, 26568), (331, 26625), (384, 26811), (423, 26946), (425, 26958), (444, 26991), (500, 27120), (542, 27237), (592, 27312), (649, 27546), (650, 27549), (665, 27609), (685, 27699), (694, 27729), (704, 27771), (722, 27822),

Gene: Gisselle_25 Start: 20615, Stop: 22009, Start Num: 203

Candidate Starts for Gisselle_25:

(Start: 203 @20615 has 73 MA's), (220, 20672), (259, 20777), (260, 20780), (292, 20864), (350, 20897), (377, 20951), (378, 20954), (402, 21044), (406, 21080), (411, 21101), (417, 21134), (423, 21155), (467, 21287), (474, 21314), (490, 21353), (500, 21380), (506, 21413), (513, 21428), (516, 21437), (535, 21482), (552, 21518), (607, 21599), (615, 21623), (621, 21641), (626, 21653), (643, 21713), (647, 21737), (649, 21743), (650, 21746), (656, 21764), (657, 21767), (662, 21791), (663, 21800), (684, 21887), (698, 21938), (709, 21977),

Gene: Giuseppe_53 Start: 39718, Stop: 41661, Start Num: 54

Candidate Starts for Giuseppe_53:

(Start: 54 @39718 has 63 MA's), (69, 39745), (94, 39817), (114, 39871), (136, 39931), (141, 39949), (145, 39958), (176, 40009), (196, 40051), (214, 40087), (235, 40174), (272, 40267), (277, 40282), (286, 40303), (328, 40405), (340, 40438), (347, 40462), (370, 40522), (393, 40609), (409, 40684), (445, 40774), (461, 40825), (462, 40828), (495, 40918), (500, 40936), (506, 40969), (530, 41023), (534, 41035), (542, 41053), (583, 41116), (604, 41200), (642, 41317), (649, 41365), (666, 41428), (684, 41512),

Gene: Glenn_29 Start: 22157, Stop: 23557, Start Num: 203

Candidate Starts for Glenn_29:

(Start: 203 @22157 has 73 MA's), (220, 22220), (259, 22325), (260, 22328), (292, 22412), (350, 22445), (374, 22496), (378, 22502), (399, 22583), (400, 22586), (402, 22592), (406, 22628), (410, 22646), (411, 22649), (417, 22682), (423, 22703), (427, 22721), (440, 22754), (467, 22835), (474, 22862), (486, 22892), (490, 22901), (500, 22928), (506, 22961), (513, 22976), (535, 23030), (544, 23051), (550, 23063), (578, 23075), (651, 23297), (654, 23306), (656, 23312), (663, 23348), (680, 23408), (684, 23435), (709, 23525),

Gene: Gmala1_55 Start: 48612, Stop: 47071, Start Num: 181

Candidate Starts for Gmala1_55:

(181, 48612), (220, 48507), (227, 48480), (244, 48426), (254, 48408), (272, 48348), (274, 48339), (342, 48288), (348, 48264), (352, 48252), (354, 48246), (371, 48201), (376, 48186), (380, 48165), (381, 48162), (405, 48063), (410, 48036), (431, 47952), (438, 47928), (447, 47904), (458, 47871), (479, 47790), (502, 47742), (507, 47727), (548, 47634), (582, 47607), (583, 47604), (612, 47520), (625, 47484), (630, 47469), (641, 47424), (659, 47352), (660, 47346), (694, 47205), (732, 47106), (733, 47103),

Gene: GodonK_184 Start: 93693, Stop: 91774, Start Num: 63

Candidate Starts for GodonK_184:

(Start: 63 @93693 has 10 MA's), (72, 93651), (120, 93537), (155, 93462), (197, 93393), (217, 93324), (344, 93051), (349, 93033), (357, 93009), (365, 92970), (405, 92790), (427, 92706), (440, 92682), (460, 92622), (463, 92610), (473, 92583), (506, 92514), (508, 92511), (576, 92295), (581, 92277), (583, 92271), (604, 92205), (618, 92166), (622, 92154), (632, 92127), (652, 92046), (660, 92013), (666, 91992), (676, 91959), (684, 91908), (690, 91890),

Gene: GoldenEssence_87 Start: 74530, Stop: 76368, Start Num: 59

Candidate Starts for GoldenEssence_87:

(Start: 59 @74530 has 12 MA's), (120, 74689), (167, 74785), (Start: 215 @74845 has 28 MA's), (224, 74875), (254, 74965), (263, 74995), (278, 75046), (338, 75106), (443, 75502), (450, 75523), (463, 75568), (499, 75625), (500, 75631), (506, 75664), (512, 75676), (516, 75688), (523, 75703), (534, 75733), (552, 75772), (579, 75829), (581, 75835), (592, 75868), (617, 75937), (643, 76021), (673, 76138), (716, 76312), (736, 76354),

Gene: Goodman_34 Start: 23371, Stop: 24798, Start Num: 207

Candidate Starts for Goodman_34:

(Start: 207 @23371 has 19 MA's), (281, 23587), (361, 23689), (377, 23728), (391, 23791), (403, 23836), (406, 23857), (430, 23956), (480, 24124), (500, 24172), (502, 24193), (513, 24220), (524, 24247), (535, 24277), (538, 24283), (554, 24319), (608, 24397), (634, 24481), (642, 24499), (643, 24502), (663, 24589), (668, 24601), (679, 24640), (684, 24676), (687, 24682), (700, 24733), (706, 24757),

Gene: GordDuk1_59 Start: 49176, Stop: 47635, Start Num: 181

Candidate Starts for GordDuk1_59:

(181, 49176), (220, 49071), (227, 49044), (244, 48990), (254, 48972), (272, 48912), (274, 48903), (342, 48852), (348, 48828), (352, 48816), (354, 48810), (371, 48765), (376, 48750), (380, 48729), (381, 48726), (405, 48627), (410, 48600), (431, 48516), (438, 48492), (447, 48468), (458, 48435), (459, 48426), (472, 48378), (479, 48354), (502, 48306), (548, 48198), (582, 48171), (612, 48084), (625, 48048), (630, 48033), (641, 47988), (659, 47916), (660, 47910), (732, 47670), (733, 47667),

Gene: GordTnk2_60 Start: 49330, Stop: 47789, Start Num: 181

Candidate Starts for GordTnk2_60:

(181, 49330), (220, 49225), (227, 49198), (244, 49144), (254, 49126), (272, 49066), (274, 49057), (342, 49006), (348, 48982), (352, 48970), (354, 48964), (371, 48919), (376, 48904), (380, 48883),

(381, 48880), (405, 48781), (410, 48754), (431, 48670), (438, 48646), (447, 48622), (458, 48589), (479, 48508), (502, 48460), (548, 48352), (582, 48325), (583, 48322), (612, 48238), (625, 48202), (630, 48187), (641, 48142), (659, 48070), (660, 48064), (694, 47923), (732, 47824), (733, 47821),

Gene: Gorko_58 Start: 51458, Stop: 49926, Start Num: 162

Candidate Starts for Gorko_58:

(69, 51713), (81, 51662), (103, 51611), (121, 51557), (131, 51527), (Start: 143 @51494 has 3 MA's), (149, 51485), (Start: 162 @51458 has 28 MA's), (227, 51290), (235, 51248), (254, 51200), (258, 51188), (262, 51176), (263, 51170), (269, 51149), (285, 51122), (377, 50981), (402, 50894), (403, 50879), (405, 50867), (411, 50837), (422, 50786), (430, 50759), (447, 50708), (465, 50648), (466, 50645), (472, 50618), (487, 50576), (503, 50531), (585, 50396), (589, 50381), (595, 50360), (641, 50279), (643, 50276), (657, 50219), (658, 50213), (659, 50207), (660, 50201), (680, 50126), (687, 50087), (690, 50075), (691, 50072), (718, 49979), (727, 49964), (737, 49943),

Gene: GourdThymes_59 Start: 52332, Stop: 50800, Start Num: 162

Candidate Starts for GourdThymes_59:

(69, 52587), (81, 52536), (103, 52485), (121, 52431), (131, 52401), (Start: 143 @52368 has 3 MA's), (149, 52359), (Start: 162 @52332 has 28 MA's), (227, 52164), (235, 52122), (254, 52074), (258, 52062), (262, 52050), (263, 52044), (269, 52023), (285, 51996), (377, 51855), (402, 51768), (403, 51753), (405, 51741), (411, 51711), (422, 51660), (430, 51633), (447, 51582), (456, 51558), (459, 51540), (465, 51522), (466, 51519), (472, 51492), (487, 51450), (503, 51405), (585, 51270), (589, 51255), (595, 51234), (634, 51177), (641, 51153), (643, 51150), (657, 51093), (658, 51087), (659, 51081), (660, 51075), (675, 51024), (680, 51000), (687, 50961), (690, 50949), (691, 50946), (718, 50853), (727, 50838), (737, 50817),

Gene: Graynor_30 Start: 22151, Stop: 23545, Start Num: 203

Candidate Starts for Graynor_30:

(Start: 203 @22151 has 73 MA's), (220, 22208), (259, 22313), (292, 22400), (377, 22487), (378, 22490), (402, 22580), (406, 22616), (408, 22625), (410, 22634), (423, 22691), (427, 22709), (440, 22742), (467, 22823), (474, 22850), (500, 22916), (506, 22949), (513, 22964), (516, 22973), (578, 23063), (606, 23132), (615, 23159), (621, 23177), (626, 23189), (649, 23279), (651, 23285), (654, 23294), (656, 23300), (663, 23336), (684, 23423), (698, 23474), (700, 23480), (709, 23513), (717, 23537),

Gene: GreenHearts_29 Start: 22236, Stop: 23627, Start Num: 203

Candidate Starts for GreenHearts_29:

(Start: 203 @22236 has 73 MA's), (228, 22323), (259, 22395), (260, 22398), (285, 22464), (292, 22482), (336, 22488), (350, 22515), (378, 22572), (386, 22623), (402, 22662), (406, 22698), (410, 22716), (417, 22752), (423, 22773), (427, 22791), (440, 22824), (457, 22863), (467, 22905), (474, 22932), (482, 22956), (499, 22992), (500, 22998), (506, 23031), (513, 23046), (516, 23055), (535, 23100), (550, 23133), (552, 23136), (608, 23220), (615, 23241), (620, 23253), (621, 23259), (626, 23271), (649, 23361), (650, 23364), (651, 23367), (656, 23382), (657, 23385), (662, 23409), (663, 23418), (684, 23505), (698, 23556), (709, 23595), (717, 23619),

Gene: Greenbelt_68 Start: 46451, Stop: 44553, Start Num: 48

Candidate Starts for Greenbelt_68:

(40, 46496), (Start: 48 @46451 has 2 MA's), (52, 46445), (Start: 59 @46433 has 12 MA's), (89, 46355), (115, 46289), (120, 46271), (132, 46250), (150, 46205), (159, 46187), (180, 46157), (202, 46112), (214, 46088), (255, 45962), (278, 45887), (279, 45884), (293, 45851), (309, 45818), (323, 45779), (359, 45668), (368, 45629), (385, 45554), (425, 45407), (444, 45374), (461, 45317), (506, 45212), (515, 45191), (594, 45050), (618, 44960), (630, 44927), (655, 44828), (665, 44783), (668, 44774), (701, 44639), (722, 44573), (724, 44570),

Gene: Greenhouse_29 Start: 22160, Stop: 23551, Start Num: 203

Candidate Starts for Greenhouse_29:

(151, 22058), (174, 22100), (Start: 190 @22127 has 3 MA's), (Start: 203 @22160 has 73 MA's), (228, 22247), (259, 22319), (260, 22322), (285, 22388), (292, 22406), (336, 22412), (350, 22439), (378, 22496), (386, 22547), (389, 22553), (391, 22556), (402, 22586), (406, 22622), (410, 22640), (417, 22676), (423, 22697), (427, 22715), (457, 22787), (467, 22829), (474, 22856), (482, 22880), (499, 22916), (500, 22922), (506, 22955), (513, 22970), (516, 22979), (550, 23057), (552, 23060), (608, 23144), (615, 23165), (620, 23177), (621, 23183), (626, 23195), (649, 23285), (656, 23306), (657, 23309), (662, 23333), (663, 23342), (684, 23429), (698, 23480), (709, 23519), (717, 23543),

Gene: Gretellyn_60 Start: 41292, Stop: 43208, Start Num: 53

Candidate Starts for Gretellyn_60:

(Start: 53 @41292 has 13 MA's), (Start: 54 @41295 has 63 MA's), (Start: 66 @41307 has 2 MA's), (78, 41355), (93, 41388), (117, 41457), (155, 41547), (173, 41574), (178, 41583), (214, 41655), (235, 41742), (255, 41775), (274, 41838), (314, 41928), (322, 41955), (368, 42084), (376, 42108), (383, 42150), (400, 42198), (403, 42219), (406, 42240), (423, 42297), (445, 42351), (458, 42393), (476, 42453), (506, 42549), (508, 42552), (598, 42729), (613, 42780), (642, 42870), (649, 42906), (651, 42912), (665, 42966), (677, 43005), (699, 43107), (703, 43122), (709, 43143),

Gene: GrootJr_74 Start: 56101, Stop: 54035, Start Num: 35

Candidate Starts for GrootJr_74:

(8, 56305), (9, 56293), (12, 56275), (Start: 35 @56101 has 34 MA's), (Start: 79 @55963 has 2 MA's), (88, 55939), (178, 55735), (201, 55690), (235, 55582), (279, 55468), (281, 55465), (318, 55375), (320, 55372), (342, 55312), (383, 55174), (388, 55156), (398, 55132), (427, 55009), (461, 54904), (500, 54778), (515, 54724), (580, 54598), (583, 54589), (591, 54565), (604, 54493), (607, 54487), (617, 54457), (634, 54400), (649, 54340), (666, 54277), (684, 54196),

Gene: Guillaume_57 Start: 52620, Stop: 51208, Start Num: 215

Candidate Starts for Guillaume_57:

(69, 52968), (112, 52839), (Start: 143 @52749 has 3 MA's), (Start: 215 @52620 has 28 MA's), (227, 52575), (254, 52485), (255, 52482), (257, 52476), (263, 52455), (292, 52392), (371, 52284), (377, 52266), (402, 52179), (403, 52164), (411, 52122), (431, 52041), (447, 51993), (459, 51951), (465, 51933), (466, 51930), (472, 51903), (491, 51852), (503, 51816), (524, 51765), (585, 51681), (591, 51660), (657, 51504), (658, 51498), (660, 51486), (690, 51360), (727, 51246),

Gene: Gumball_52 Start: 39923, Stop: 41866, Start Num: 54

Candidate Starts for Gumball_52:

(37, 39860), (Start: 54 @39923 has 63 MA's), (69, 39950), (94, 40022), (114, 40076), (136, 40136), (145, 40163), (176, 40214), (196, 40256), (214, 40292), (235, 40379), (272, 40472), (277, 40487), (286, 40508), (328, 40610), (340, 40643), (347, 40667), (370, 40727), (393, 40814), (409, 40889), (445, 40979), (461, 41030), (462, 41033), (495, 41123), (500, 41141), (506, 41174), (534, 41240), (542, 41258), (583, 41321), (604, 41405), (642, 41522), (649, 41570), (666, 41633), (684, 41717),

Gene: Hager_41 Start: 25422, Stop: 27329, Start Num: 60

Candidate Starts for Hager_41:

(18, 25248), (Start: 60 @25422 has 35 MA's), (85, 25485), (97, 25506), (115, 25560), (194, 25722), (202, 25737), (219, 25782), (276, 25956), (279, 25965), (318, 26055), (320, 26058), (329, 26097), (331, 26112), (337, 26130), (384, 26298), (409, 26391), (412, 26406), (423, 26433), (425, 26445), (444, 26478), (500, 26607), (542, 26724), (643, 26997), (650, 27036), (665, 27096), (685, 27186), (694, 27216), (704, 27258), (722, 27309),

Gene: Hail2Pitt_56 Start: 53096, Stop: 51684, Start Num: 215

Candidate Starts for Hail2Pitt_56:

(69, 53444), (112, 53315), (142, 53228), (Start: 143 @53225 has 3 MA's), (Start: 215 @53096 has 28 MA's), (227, 53051), (254, 52961), (255, 52958), (257, 52952), (263, 52931), (292, 52868), (371, 52760), (377, 52742), (402, 52655), (403, 52640), (411, 52598), (431, 52517), (447, 52469), (459, 52427), (465, 52409), (466, 52406), (472, 52379), (491, 52328), (503, 52292), (524, 52241), (585, 52157), (591, 52136), (657, 51980), (658, 51974), (660, 51962), (690, 51836), (727, 51722),

Gene: Harambe_57 Start: 52887, Stop: 51475, Start Num: 215

Candidate Starts for Harambe_57:

(69, 53235), (112, 53106), (142, 53019), (Start: 143 @53016 has 3 MA's), (Start: 215 @52887 has 28 MA's), (227, 52842), (254, 52752), (255, 52749), (257, 52743), (263, 52722), (292, 52659), (371, 52551), (377, 52533), (402, 52446), (403, 52431), (411, 52389), (431, 52308), (447, 52260), (459, 52218), (465, 52200), (466, 52197), (472, 52170), (491, 52119), (503, 52083), (524, 52032), (585, 51948), (591, 51927), (657, 51771), (658, 51765), (660, 51753), (690, 51627), (727, 51513),

Gene: Haunter_40 Start: 25327, Stop: 27234, Start Num: 60

Candidate Starts for Haunter_40:

(Start: 60 @25327 has 35 MA's), (85, 25390), (97, 25411), (115, 25465), (133, 25507), (202, 25642), (219, 25687), (276, 25861), (279, 25870), (318, 25960), (331, 26017), (384, 26203), (423, 26338), (425, 26350), (444, 26383), (458, 26428), (500, 26512), (542, 26629), (643, 26902), (649, 26938), (650, 26941), (665, 27001), (685, 27091), (694, 27121), (704, 27163), (722, 27214),

Gene: Hawkeye_56 Start: 39560, Stop: 41506, Start Num: 50

Candidate Starts for Hawkeye_56:

(Start: 50 @39560 has 1 MA's), (82, 39638), (111, 39707), (114, 39716), (124, 39746), (136, 39776), (145, 39803), (152, 39815), (196, 39893), (202, 39905), (235, 40016), (254, 40049), (277, 40124), (312, 40202), (323, 40232), (330, 40268), (350, 40322), (370, 40373), (402, 40487), (426, 40595), (460, 40673), (461, 40676), (468, 40700), (473, 40712), (495, 40769), (497, 40775), (500, 40787), (502, 40808), (506, 40820), (522, 40856), (534, 40886), (542, 40904), (583, 40967), (604, 41051), (617, 41087), (633, 41132), (642, 41168), (649, 41216), (651, 41222), (666, 41279), (721, 41483), (726, 41489), (728, 41492),

Gene: HayZem_62 Start: 52710, Stop: 51079, Start Num: 104

Candidate Starts for HayZem_62:

(Start: 104 @52710 has 3 MA's), (109, 52698), (127, 52647), (129, 52641), (157, 52584), (227, 52443), (235, 52401), (239, 52389), (254, 52353), (255, 52350), (263, 52323), (279, 52287), (285, 52275), (292, 52260), (371, 52152), (402, 52047), (403, 52032), (431, 51909), (447, 51861), (456, 51837), (459, 51819), (472, 51771), (491, 51720), (503, 51684), (510, 51666), (585, 51549), (609, 51498), (634, 51456), (649, 51396), (660, 51354), (675, 51303), (680, 51279), (727, 51117), (737, 51096),

Gene: Hello_57 Start: 52849, Stop: 51437, Start Num: 215

Candidate Starts for Hello_57:

(69, 53197), (112, 53068), (142, 52981), (Start: 143 @52978 has 3 MA's), (Start: 215 @52849 has 28 MA's), (227, 52804), (254, 52714), (255, 52711), (257, 52705), (263, 52684), (292, 52621), (371, 52513), (377, 52495), (402, 52408), (403, 52393), (411, 52351), (431, 52270), (447, 52222), (459, 52180), (465, 52162), (466, 52159), (472, 52132), (491, 52081), (503, 52045), (524, 51994), (585, 51910), (591, 51889), (657, 51733), (658, 51727), (660, 51715), (690, 51589), (727, 51475),

Gene: Helpful_56 Start: 40102, Stop: 42045, Start Num: 54

Candidate Starts for Helpful_56:

(31, 40033), (Start: 54 @40102 has 63 MA's), (69, 40129), (94, 40201), (114, 40255), (136, 40315), (141, 40333), (145, 40342), (176, 40393), (196, 40435), (214, 40471), (235, 40558), (272, 40651), (277, 40666), (286, 40687), (328, 40789), (340, 40822), (347, 40846), (370, 40906), (393, 40993), (409, 41068), (445, 41158), (461, 41209), (462, 41212), (495, 41302), (500, 41320), (506, 41353),

(530, 41407), (534, 41419), (542, 41437), (583, 41500), (604, 41584), (642, 41701), (649, 41749), (666, 41812), (684, 41896),

Gene: Henococcus_42 Start: 30892, Stop: 32286, Start Num: 209

Candidate Starts for Henococcus_42:

(Start: 209 @30892 has 13 MA's), (Start: 211 @30895 has 3 MA's), (227, 30970), (231, 30994), (254, 31024), (255, 31027), (259, 31039), (341, 31129), (352, 31153), (374, 31198), (378, 31204), (391, 31264), (399, 31285), (408, 31339), (433, 31438), (440, 31465), (444, 31474), (480, 31600), (500, 31648), (502, 31669), (506, 31681), (513, 31696), (525, 31726), (538, 31759), (542, 31768), (582, 31810), (607, 31876), (608, 31879), (615, 31900), (621, 31918), (629, 31936), (643, 31990), (649, 32020), (663, 32077), (665, 32080), (679, 32128), (690, 32182), (708, 32251), (713, 32269),

Gene: Herb_26 Start: 21732, Stop: 23129, Start Num: 203

Candidate Starts for Herb_26:

(Start: 203 @21732 has 73 MA's), (220, 21792), (252, 21879), (259, 21897), (260, 21900), (292, 21984), (336, 21990), (350, 22017), (374, 22068), (378, 22074), (386, 22125), (391, 22134), (399, 22155), (402, 22164), (406, 22200), (411, 22221), (417, 22254), (423, 22275), (427, 22293), (430, 22299), (440, 22326), (446, 22338), (451, 22353), (467, 22407), (482, 22458), (486, 22464), (490, 22473), (492, 22479), (500, 22500), (506, 22533), (513, 22548), (516, 22557), (591, 22680), (607, 22719), (615, 22743), (620, 22755), (649, 22863), (651, 22869), (654, 22878), (656, 22884), (663, 22920), (684, 23007), (709, 23097), (717, 23121),

Gene: Hiddenleaf_40 Start: 25169, Stop: 27076, Start Num: 60

Candidate Starts for Hiddenleaf_40:

(18, 24995), (Start: 60 @25169 has 35 MA's), (85, 25232), (97, 25253), (115, 25307), (182, 25442), (202, 25484), (219, 25529), (276, 25703), (279, 25712), (318, 25802), (329, 25844), (331, 25859), (384, 26045), (423, 26180), (425, 26192), (444, 26225), (500, 26354), (542, 26471), (643, 26744), (650, 26783), (665, 26843), (685, 26933), (694, 26963), (704, 27005), (722, 27056),

Gene: Hollow_57 Start: 53503, Stop: 51797, Start Num: 86

Candidate Starts for Hollow_57:

(Start: 86 @53503 has 9 MA's), (Start: 92 @53491 has 2 MA's), (126, 53392), (Start: 135 @53371 has 1 MA's), (168, 53305), (217, 53206), (227, 53170), (229, 53146), (232, 53137), (235, 53128), (254, 53080), (262, 53056), (279, 53014), (286, 52999), (292, 52984), (352, 52927), (353, 52924), (375, 52864), (376, 52861), (395, 52795), (396, 52792), (403, 52756), (404, 52753), (406, 52735), (408, 52726), (411, 52714), (421, 52666), (431, 52633), (438, 52609), (447, 52585), (456, 52561), (472, 52495), (503, 52396), (583, 52264), (585, 52261), (641, 52144), (643, 52141), (657, 52084), (660, 52066), (687, 51949), (688, 51946), (691, 51934), (727, 51835), (737, 51814),

Gene: HomeFry_80 Start: 55194, Stop: 53140, Start Num: 35

Candidate Starts for HomeFry_80:

(Start: 35 @55194 has 34 MA's), (72, 55074), (83, 55041), (124, 54945), (125, 54942), (201, 54792), (235, 54684), (255, 54651), (262, 54630), (270, 54600), (281, 54567), (318, 54477), (342, 54414), (388, 54258), (403, 54207), (427, 54111), (441, 54078), (461, 54015), (473, 53979), (500, 53892), (522, 53823), (530, 53805), (583, 53700), (601, 53631), (604, 53598), (607, 53592), (617, 53562), (622, 53547), (634, 53505), (649, 53445), (666, 53382), (684, 53301), (692, 53277), (707, 53217),

Gene: Hotorobo_59 Start: 52337, Stop: 50805, Start Num: 162

Candidate Starts for Hotorobo_59:

(69, 52592), (81, 52541), (103, 52490), (121, 52436), (131, 52406), (Start: 143 @52373 has 3 MA's), (149, 52364), (Start: 162 @52337 has 28 MA's), (227, 52169), (235, 52127), (254, 52079), (258, 52067), (262, 52055), (263, 52049), (269, 52028), (285, 52001), (377, 51860), (402, 51773), (403, 51758), (405, 51746), (411, 51716), (422, 51665), (430, 51638), (447, 51587), (465, 51527), (466,

51524), (472, 51497), (487, 51455), (503, 51410), (585, 51275), (589, 51260), (595, 51239), (641, 51158), (643, 51155), (657, 51098), (658, 51092), (659, 51086), (660, 51080), (680, 51005), (687, 50966), (690, 50954), (691, 50951), (718, 50858), (727, 50843), (737, 50822),

Gene: Htur_33 Start: 23465, Stop: 24892, Start Num: 207

Candidate Starts for Htur_33:

(183, 23426), (195, 23447), (Start: 207 @23465 has 19 MA's), (377, 23822), (391, 23885), (403, 23930), (406, 23951), (480, 24218), (500, 24266), (502, 24287), (513, 24314), (524, 24341), (525, 24344), (535, 24371), (538, 24377), (554, 24413), (608, 24491), (615, 24512), (621, 24530), (626, 24542), (649, 24626), (663, 24683), (668, 24695), (679, 24734), (684, 24770), (687, 24776),

Gene: HubbaBubba_67 Start: 51701, Stop: 49620, Start Num: 35

Candidate Starts for HubbaBubba_67:

(9, 51893), (12, 51875), (Start: 35 @51701 has 34 MA's), (115, 51470), (180, 51332), (235, 51182), (255, 51149), (279, 51068), (281, 51065), (318, 50975), (320, 50972), (342, 50912), (388, 50756), (427, 50609), (461, 50501), (468, 50477), (500, 50375), (515, 50321), (522, 50306), (556, 50225), (583, 50186), (599, 50123), (604, 50084), (607, 50078), (617, 50048), (649, 49931), (666, 49868), (681, 49805), (684, 49787), (707, 49703),

Gene: HunterDalle_26 Start: 21745, Stop: 23139, Start Num: 203

Candidate Starts for HunterDalle_26:

(Start: 203 @21745 has 73 MA's), (220, 21802), (252, 21889), (259, 21907), (260, 21910), (292, 21994), (350, 22027), (374, 22078), (378, 22084), (391, 22144), (402, 22174), (406, 22210), (410, 22228), (417, 22264), (423, 22285), (427, 22303), (430, 22309), (440, 22336), (467, 22417), (474, 22444), (482, 22468), (490, 22483), (500, 22510), (506, 22543), (513, 22558), (606, 22726), (615, 22753), (620, 22765), (626, 22783), (649, 22873), (651, 22879), (656, 22894), (657, 22897), (663, 22930), (680, 22990), (684, 23017), (700, 23074), (709, 23107), (717, 23131),

Gene: Huntingdon_29 Start: 22127, Stop: 23518, Start Num: 203

Candidate Starts for Huntingdon_29:

(Start: 203 @22127 has 73 MA's), (228, 22214), (259, 22286), (260, 22289), (285, 22355), (292, 22373), (336, 22379), (350, 22406), (378, 22463), (399, 22544), (402, 22553), (406, 22589), (410, 22607), (417, 22643), (423, 22664), (427, 22682), (440, 22715), (457, 22754), (467, 22796), (474, 22823), (482, 22847), (499, 22883), (500, 22889), (506, 22922), (513, 22937), (516, 22946), (535, 22991), (550, 23024), (552, 23027), (607, 23108), (620, 23144), (621, 23150), (626, 23162), (649, 23252), (656, 23273), (657, 23276), (662, 23300), (663, 23309), (684, 23396), (698, 23447), (709, 23486), (717, 23510),

Gene: IDyn_69 Start: 52448, Stop: 50367, Start Num: 35

Candidate Starts for IDyn_69:

(9, 52640), (12, 52622), (17, 52547), (Start: 35 @52448 has 34 MA's), (115, 52217), (180, 52079), (235, 51929), (255, 51896), (277, 51821), (279, 51815), (281, 51812), (318, 51722), (320, 51719), (342, 51659), (388, 51503), (427, 51356), (461, 51248), (468, 51224), (500, 51122), (515, 51068), (522, 51053), (556, 50972), (583, 50933), (599, 50870), (604, 50831), (607, 50825), (617, 50795), (649, 50678), (666, 50615), (681, 50552), (684, 50534), (707, 50450),

Gene: IndiRoo_33 Start: 21703, Stop: 23130, Start Num: 207

Candidate Starts for IndiRoo_33:

(192, 21682), (Start: 207 @21703 has 19 MA's), (374, 22057), (377, 22060), (381, 22081), (403, 22168), (411, 22210), (497, 22492), (500, 22504), (502, 22525), (513, 22552), (524, 22579), (525, 22582), (535, 22609), (538, 22615), (554, 22651), (615, 22750), (634, 22813), (643, 22834), (657, 22888), (663, 22921), (668, 22933), (679, 22972), (684, 23008), (687, 23014), (690, 23026), (698, 23059), (706, 23089),

Gene: Indlulamithi_65 Start: 45619, Stop: 47481, Start Num: 96

Candidate Starts for Indlulamithi_65:

(Start: 96 @45619 has 1 MA's), (101, 45634), (202, 45862), (224, 45922), (232, 45964), (251, 46000), (263, 46033), (268, 46051), (289, 46111), (295, 46129), (310, 46162), (325, 46201), (350, 46291), (357, 46312), (358, 46315), (368, 46336), (411, 46513), (437, 46582), (451, 46618), (458, 46639), (461, 46651), (483, 46717), (499, 46759), (500, 46765), (506, 46798), (513, 46813), (524, 46837), (525, 46840), (534, 46864), (538, 46873), (592, 46960), (622, 47065), (655, 47206), (681, 47314), (684, 47335), (689, 47350), (702, 47401), (723, 47458), (728, 47464), (734, 47476),

Gene: Intolerant_41 Start: 31037, Stop: 32431, Start Num: 209

Candidate Starts for Intolerant_41:

(Start: 209 @31037 has 13 MA's), (Start: 211 @31040 has 3 MA's), (227, 31115), (231, 31139), (254, 31169), (259, 31184), (341, 31274), (356, 31310), (391, 31409), (395, 31418), (409, 31487), (440, 31610), (480, 31745), (492, 31772), (500, 31793), (502, 31814), (525, 31871), (538, 31904), (542, 31913), (582, 31955), (607, 32021), (615, 32045), (621, 32063), (629, 32081), (643, 32135), (649, 32165), (663, 32222), (665, 32225), (679, 32273), (686, 32312), (690, 32327), (708, 32396), (713, 32414), (717, 32423),

Gene: JDawG_39 Start: 25586, Stop: 27493, Start Num: 60

Candidate Starts for JDawG_39:

(18, 25412), (Start: 60 @25586 has 35 MA's), (85, 25649), (97, 25670), (115, 25724), (182, 25859), (202, 25901), (219, 25946), (276, 26120), (279, 26129), (318, 26219), (329, 26261), (331, 26276), (384, 26462), (423, 26597), (425, 26609), (444, 26642), (473, 26735), (500, 26771), (531, 26861), (542, 26888), (649, 27197), (650, 27200), (665, 27260), (685, 27350), (694, 27380), (704, 27422), (722, 27473),

Gene: JackieB_42 Start: 30731, Stop: 32125, Start Num: 209

Candidate Starts for JackieB_42:

(Start: 209 @30731 has 13 MA's), (Start: 211 @30734 has 3 MA's), (227, 30809), (231, 30833), (254, 30863), (255, 30866), (259, 30878), (341, 30968), (352, 30992), (374, 31037), (378, 31043), (391, 31103), (399, 31124), (408, 31178), (433, 31277), (440, 31304), (444, 31313), (480, 31439), (500, 31487), (502, 31508), (506, 31520), (513, 31535), (525, 31565), (538, 31598), (542, 31607), (582, 31649), (608, 31718), (615, 31739), (621, 31757), (629, 31775), (643, 31829), (649, 31859), (663, 31916), (665, 31919), (679, 31967), (690, 32021), (708, 32090), (713, 32108),

Gene: Jalebi_59 Start: 41637, Stop: 43553, Start Num: 53

Candidate Starts for Jalebi_59:

(Start: 53 @41637 has 13 MA's), (Start: 54 @41640 has 63 MA's), (Start: 66 @41652 has 2 MA's), (78, 41700), (117, 41802), (155, 41892), (173, 41919), (178, 41928), (214, 42000), (255, 42120), (274, 42183), (314, 42273), (322, 42300), (368, 42429), (376, 42453), (383, 42495), (400, 42543), (403, 42564), (406, 42585), (423, 42642), (445, 42696), (458, 42738), (476, 42798), (506, 42894), (508, 42897), (598, 43074), (613, 43125), (640, 43212), (642, 43215), (649, 43251), (651, 43257), (665, 43311), (677, 43350), (699, 43452), (703, 43467), (709, 43488),

Gene: Jamemuya19_59 Start: 39419, Stop: 41335, Start Num: 53

Candidate Starts for Jamemuya19_59:

(Start: 53 @39419 has 13 MA's), (Start: 54 @39422 has 63 MA's), (Start: 66 @39434 has 2 MA's), (78, 39482), (93, 39515), (155, 39674), (173, 39701), (178, 39710), (214, 39782), (255, 39902), (274, 39965), (314, 40055), (322, 40082), (368, 40211), (376, 40235), (383, 40277), (385, 40289), (393, 40304), (400, 40325), (403, 40346), (406, 40367), (423, 40424), (427, 40442), (445, 40478), (458, 40520), (476, 40580), (506, 40676), (508, 40679), (598, 40856), (613, 40907), (642, 40997), (649, 41033), (651, 41039), (665, 41093), (677, 41132), (699, 41234), (703, 41249), (709, 41270),

Gene: Jams_57 Start: 52059, Stop: 50647, Start Num: 215

Candidate Starts for Jams_57:

(69, 52407), (112, 52278), (Start: 143 @52188 has 3 MA's), (Start: 215 @52059 has 28 MA's), (227, 52014), (254, 51924), (255, 51921), (257, 51915), (263, 51894), (292, 51831), (359, 51753), (371, 51723), (377, 51705), (402, 51618), (403, 51603), (411, 51561), (431, 51480), (447, 51432), (459, 51390), (465, 51372), (466, 51369), (472, 51342), (491, 51291), (503, 51255), (524, 51204), (585, 51120), (591, 51099), (657, 50943), (658, 50937), (660, 50925), (690, 50799), (727, 50685),

Gene: Jellybones_61 Start: 53432, Stop: 51900, Start Num: 162

Candidate Starts for Jellybones_61:

(69, 53687), (81, 53636), (112, 53558), (121, 53531), (131, 53501), (Start: 143 @53468 has 3 MA's), (149, 53459), (Start: 162 @53432 has 28 MA's), (217, 53300), (227, 53264), (235, 53222), (242, 53204), (254, 53174), (258, 53162), (263, 53144), (285, 53096), (402, 52868), (403, 52853), (405, 52841), (411, 52811), (422, 52760), (447, 52682), (456, 52658), (459, 52640), (465, 52622), (466, 52619), (468, 52610), (472, 52592), (487, 52550), (503, 52505), (510, 52487), (585, 52370), (589, 52355), (595, 52334), (634, 52277), (641, 52253), (643, 52250), (657, 52193), (658, 52187), (660, 52175), (675, 52124), (680, 52100), (687, 52061), (690, 52049), (691, 52046), (718, 51953), (727, 51938), (737, 51917),

Gene: Jera_34 Start: 22504, Stop: 23931, Start Num: 207

Candidate Starts for Jera_34:

(188, 22462), (Start: 207 @22504 has 19 MA's), (361, 22822), (403, 22969), (406, 22990), (408, 22999), (480, 23257), (500, 23305), (502, 23326), (525, 23383), (538, 23416), (554, 23452), (608, 23530), (615, 23551), (642, 23632), (643, 23635), (663, 23722), (668, 23734), (679, 23773), (684, 23809), (687, 23815), (690, 23827), (706, 23890),

Gene: Jifall16_71 Start: 56412, Stop: 54346, Start Num: 35

Candidate Starts for Jifall16_71:

(2, 56910), (5, 56709), (8, 56616), (9, 56604), (12, 56586), (Start: 35 @56412 has 34 MA's), (Start: 79 @56274 has 2 MA's), (88, 56250), (178, 56046), (201, 56001), (235, 55893), (279, 55779), (281, 55776), (318, 55686), (320, 55683), (342, 55623), (383, 55485), (388, 55467), (398, 55443), (427, 55320), (461, 55215), (500, 55089), (515, 55035), (580, 54909), (583, 54900), (591, 54876), (604, 54804), (607, 54798), (617, 54768), (634, 54711), (649, 54651), (666, 54588), (684, 54507),

Gene: JingleBells_40 Start: 25290, Stop: 27197, Start Num: 60

Candidate Starts for JingleBells_40:

(18, 25116), (Start: 60 @25290 has 35 MA's), (85, 25353), (97, 25374), (115, 25428), (140, 25491), (182, 25563), (202, 25605), (219, 25650), (276, 25824), (279, 25833), (318, 25923), (329, 25965), (331, 25980), (384, 26166), (423, 26301), (425, 26313), (444, 26346), (500, 26475), (542, 26592), (649, 26901), (650, 26904), (665, 26964), (685, 27054), (694, 27084), (704, 27126), (722, 27177),

Gene: Joann_29 Start: 22094, Stop: 23485, Start Num: 203

Candidate Starts for Joann_29:

(Start: 203 @22094 has 73 MA's), (228, 22181), (259, 22253), (260, 22256), (285, 22322), (292, 22340), (350, 22373), (378, 22430), (386, 22481), (389, 22487), (391, 22490), (402, 22520), (406, 22556), (410, 22574), (417, 22610), (423, 22631), (427, 22649), (440, 22682), (457, 22721), (467, 22763), (474, 22790), (482, 22814), (499, 22850), (500, 22856), (506, 22889), (513, 22904), (516, 22913), (535, 22958), (544, 22979), (550, 22991), (607, 23075), (615, 23099), (620, 23111), (621, 23117), (626, 23129), (649, 23219), (651, 23225), (656, 23240), (657, 23243), (662, 23267), (663, 23276), (684, 23363), (709, 23453), (717, 23477),

Gene: Johann_34 Start: 23371, Stop: 24798, Start Num: 207

Candidate Starts for Johann_34:

(Start: 207 @23371 has 19 MA's), (281, 23587), (361, 23689), (377, 23728), (391, 23791), (403, 23836), (406, 23857), (430, 23956), (480, 24124), (500, 24172), (502, 24193), (513, 24220), (524, 24247), (535, 24277), (538, 24283), (554, 24319), (608, 24397), (634, 24481), (642, 24499), (643, 24502), (663, 24589), (668, 24601), (679, 24640), (684, 24676), (687, 24682), (700, 24733), (706, 24757),

Gene: John316_62 Start: 53495, Stop: 51963, Start Num: 162

Candidate Starts for John316_62:

(69, 53750), (81, 53699), (103, 53648), (121, 53594), (131, 53564), (Start: 143 @53531 has 3 MA's), (149, 53522), (Start: 162 @53495 has 28 MA's), (227, 53327), (235, 53285), (254, 53237), (258, 53225), (262, 53213), (263, 53207), (269, 53186), (285, 53159), (402, 52931), (403, 52916), (405, 52904), (411, 52874), (422, 52823), (430, 52796), (447, 52745), (459, 52703), (465, 52685), (466, 52682), (472, 52655), (487, 52613), (503, 52568), (585, 52433), (589, 52418), (595, 52397), (641, 52316), (643, 52313), (657, 52256), (658, 52250), (659, 52244), (660, 52238), (680, 52163), (687, 52124), (690, 52112), (691, 52109), (718, 52016), (727, 52001), (737, 51980),

Gene: Jormungandr_57 Start: 52602, Stop: 51190, Start Num: 215

Candidate Starts for Jormungandr_57:

(69, 52950), (112, 52821), (Start: 143 @52731 has 3 MA's), (Start: 215 @52602 has 28 MA's), (227, 52557), (254, 52467), (255, 52464), (257, 52458), (263, 52437), (292, 52374), (371, 52266), (377, 52248), (402, 52161), (403, 52146), (411, 52104), (431, 52023), (447, 51975), (459, 51933), (465, 51915), (466, 51912), (472, 51885), (491, 51834), (503, 51798), (524, 51747), (585, 51663), (591, 51642), (657, 51486), (658, 51480), (660, 51468), (690, 51342), (727, 51228),

Gene: Jumbo_57 Start: 53259, Stop: 51742, Start Num: 190

Candidate Starts for Jumbo_57:

(Start: 190 @53259 has 3 MA's), (220, 53163), (224, 53151), (227, 53136), (272, 53004), (285, 52980), (286, 52977), (341, 52944), (376, 52839), (380, 52818), (401, 52746), (410, 52689), (436, 52587), (447, 52557), (467, 52488), (502, 52395), (507, 52380), (523, 52344), (538, 52311), (552, 52281), (582, 52260), (595, 52218), (597, 52206), (632, 52131), (660, 52014), (669, 51981), (680, 51939), (694, 51873), (732, 51774), (733, 51771),

Gene: Jumboset_29 Start: 22100, Stop: 23500, Start Num: 203

Candidate Starts for Jumboset_29:

(Start: 203 @22100 has 73 MA's), (220, 22163), (259, 22268), (260, 22271), (292, 22355), (350, 22388), (374, 22439), (378, 22445), (399, 22526), (400, 22529), (402, 22535), (406, 22571), (410, 22589), (411, 22592), (423, 22646), (440, 22697), (467, 22778), (474, 22805), (486, 22835), (490, 22844), (500, 22871), (506, 22904), (513, 22919), (535, 22973), (544, 22994), (550, 23006), (578, 23018), (651, 23240), (654, 23249), (656, 23255), (663, 23291), (680, 23351), (684, 23378), (709, 23468),

Gene: KSunshine22_95 Start: 77618, Stop: 79462, Start Num: 59

Candidate Starts for KSunshine22_95:

(Start: 59 @77618 has 12 MA's), (167, 77891), (227, 77999), (250, 78065), (273, 78134), (275, 78143), (340, 78218), (411, 78527), (424, 78572), (450, 78632), (463, 78677), (499, 78734), (500, 78740), (506, 78773), (512, 78785), (516, 78797), (569, 78914), (571, 78920), (594, 78983), (610, 79022), (617, 79043), (643, 79127), (666, 79220), (673, 79244), (713, 79412), (714, 79415),

Gene: Kabluna_75 Start: 55961, Stop: 53874, Start Num: 35

Candidate Starts for Kabluna_75:

(Start: 35 @55961 has 34 MA's), (72, 55841), (Start: 90 @55796 has 4 MA's), (Start: 92 @55793 has 2 MA's), (201, 55538), (235, 55430), (262, 55376), (281, 55313), (318, 55223), (320, 55220), (326,

55196), (342, 55160), (383, 55022), (388, 55004), (393, 54995), (398, 54980), (427, 54857), (453, 54773), (461, 54746), (468, 54722), (500, 54623), (515, 54569), (538, 54515), (556, 54473), (583, 54434), (601, 54365), (604, 54332), (617, 54296), (633, 54251), (634, 54239), (649, 54179), (666, 54116), (707, 53951), (715, 53927),

Gene: Kalizoi_29 Start: 22099, Stop: 23499, Start Num: 203

Candidate Starts for Kalizoi_29:

(Start: 203 @22099 has 73 MA's), (220, 22162), (259, 22267), (260, 22270), (292, 22354), (350, 22387), (374, 22438), (378, 22444), (399, 22525), (400, 22528), (402, 22534), (406, 22570), (410, 22588), (411, 22591), (423, 22645), (440, 22696), (467, 22777), (474, 22804), (486, 22834), (490, 22843), (500, 22870), (506, 22903), (513, 22918), (535, 22972), (544, 22993), (550, 23005), (578, 23017), (651, 23239), (654, 23248), (656, 23254), (663, 23290), (680, 23350), (684, 23377), (709, 23467), (717, 23491), (718, 23494),

Gene: Kampe_58 Start: 50421, Stop: 48931, Start Num: 185

Candidate Starts for Kampe_58:

(Start: 185 @50421 has 5 MA's), (217, 50328), (220, 50319), (224, 50307), (227, 50292), (229, 50274), (255, 50217), (277, 50145), (278, 50142), (351, 50049), (362, 50016), (375, 49983), (376, 49980), (380, 49959), (402, 49890), (406, 49854), (425, 49767), (447, 49704), (449, 49701), (458, 49671), (477, 49599), (479, 49590), (538, 49467), (541, 49461), (632, 49329), (643, 49287), (653, 49242), (660, 49212), (732, 48960),

Gene: KandZ_52 Start: 39857, Stop: 41800, Start Num: 54

Candidate Starts for KandZ_52:

(37, 39794), (Start: 54 @39857 has 63 MA's), (69, 39884), (94, 39956), (114, 40010), (136, 40070), (145, 40097), (176, 40148), (196, 40190), (214, 40226), (235, 40313), (272, 40406), (277, 40421), (286, 40442), (328, 40544), (340, 40577), (347, 40601), (370, 40661), (393, 40748), (409, 40823), (445, 40913), (461, 40964), (462, 40967), (495, 41057), (500, 41075), (506, 41108), (534, 41174), (542, 41192), (583, 41255), (604, 41339), (642, 41456), (649, 41504), (666, 41567), (684, 41651),

Gene: Karate_39 Start: 25940, Stop: 27847, Start Num: 60

Candidate Starts for Karate_39:

(18, 25766), (Start: 60 @25940 has 35 MA's), (85, 26003), (97, 26024), (115, 26078), (194, 26240), (202, 26255), (219, 26300), (276, 26474), (279, 26483), (318, 26573), (320, 26576), (331, 26630), (384, 26816), (423, 26951), (425, 26963), (500, 27125), (542, 27242), (650, 27554), (665, 27614), (685, 27704), (694, 27734), (704, 27776), (722, 27827),

Gene: Kaseim_57 Start: 52044, Stop: 50632, Start Num: 215

Candidate Starts for Kaseim_57:

(69, 52392), (112, 52263), (Start: 143 @52173 has 3 MA's), (Start: 161 @52137 has 1 MA's), (Start: 215 @52044 has 28 MA's), (227, 51999), (254, 51909), (255, 51906), (257, 51900), (263, 51879), (292, 51816), (371, 51708), (377, 51690), (402, 51603), (403, 51588), (411, 51546), (431, 51465), (447, 51417), (459, 51375), (465, 51357), (466, 51354), (472, 51327), (491, 51276), (503, 51240), (524, 51189), (585, 51105), (591, 51084), (657, 50928), (658, 50922), (660, 50910), (690, 50784), (727, 50670),

Gene: Kate_41 Start: 25943, Stop: 27850, Start Num: 60

Candidate Starts for Kate_41:

(Start: 60 @25943 has 35 MA's), (85, 26006), (97, 26027), (115, 26081), (202, 26258), (219, 26303), (276, 26477), (279, 26486), (318, 26576), (331, 26633), (384, 26819), (423, 26954), (425, 26966), (444, 26999), (500, 27128), (542, 27245), (592, 27320), (649, 27554), (650, 27557), (665, 27617), (685, 27707), (694, 27737), (704, 27779), (722, 27830),

Gene: Katyusha_57 Start: 53319, Stop: 51616, Start Num: 86

Candidate Starts for Katyusha_57:

(Start: 86 @53319 has 9 MA's), (Start: 92 @53307 has 2 MA's), (168, 53124), (Start: 215 @53034 has 28 MA's), (217, 53025), (227, 52989), (229, 52965), (232, 52956), (235, 52947), (254, 52899), (262, 52875), (292, 52803), (333, 52800), (342, 52782), (353, 52743), (395, 52614), (403, 52575), (404, 52572), (406, 52554), (408, 52545), (411, 52533), (421, 52485), (431, 52452), (447, 52404), (456, 52380), (472, 52314), (503, 52215), (547, 52116), (552, 52107), (583, 52083), (585, 52080), (634, 51987), (641, 51963), (643, 51960), (657, 51903), (660, 51885), (687, 51768), (688, 51765), (691, 51753), (727, 51654), (737, 51633),

Gene: Kelzog_61 Start: 52344, Stop: 50812, Start Num: 162

Candidate Starts for Kelzog_61:

(69, 52599), (81, 52548), (103, 52497), (121, 52443), (131, 52413), (Start: 143 @52380 has 3 MA's), (149, 52371), (Start: 162 @52344 has 28 MA's), (227, 52176), (235, 52134), (254, 52086), (258, 52074), (262, 52062), (263, 52056), (269, 52035), (285, 52008), (377, 51867), (402, 51780), (403, 51765), (405, 51753), (411, 51723), (422, 51672), (430, 51645), (447, 51594), (465, 51534), (466, 51531), (472, 51504), (487, 51462), (503, 51417), (510, 51399), (585, 51282), (589, 51267), (595, 51246), (634, 51189), (641, 51165), (657, 51105), (658, 51099), (659, 51093), (660, 51087), (675, 51036), (680, 51012), (687, 50973), (690, 50961), (691, 50958), (718, 50865), (727, 50850), (737, 50829),

Gene: KidneyBean_72 Start: 56536, Stop: 54470, Start Num: 35

Candidate Starts for KidneyBean_72:

(2, 57034), (5, 56833), (8, 56740), (9, 56728), (12, 56710), (Start: 35 @56536 has 34 MA's), (Start: 79 @56398 has 2 MA's), (88, 56374), (178, 56170), (201, 56125), (235, 56017), (279, 55903), (281, 55900), (318, 55810), (320, 55807), (342, 55747), (383, 55609), (388, 55591), (398, 55567), (427, 55444), (461, 55339), (500, 55213), (515, 55159), (580, 55033), (583, 55024), (591, 55000), (604, 54928), (607, 54922), (617, 54892), (634, 54835), (649, 54775), (666, 54712), (684, 54631),

Gene: Kimchi1738_73 Start: 52700, Stop: 50775, Start Num: 65

Candidate Starts for Kimchi1738_73:

(32, 52793), (Start: 65 @52700 has 8 MA's), (128, 52529), (150, 52475), (235, 52271), (297, 52115), (318, 52064), (320, 52061), (332, 52019), (385, 51857), (390, 51848), (500, 51491), (506, 51458), (592, 51272), (634, 51119), (651, 51053), (655, 51041), (659, 51023), (666, 50996), (681, 50933), (689, 50900), (708, 50828),

Gene: KingBob_26 Start: 21732, Stop: 23129, Start Num: 203

Candidate Starts for KingBob_26:

(Start: 203 @21732 has 73 MA's), (220, 21792), (252, 21879), (259, 21897), (260, 21900), (292, 21984), (336, 21990), (350, 22017), (374, 22068), (378, 22074), (386, 22125), (391, 22134), (399, 22155), (402, 22164), (406, 22200), (411, 22221), (417, 22254), (423, 22275), (427, 22293), (430, 22299), (440, 22326), (446, 22338), (451, 22353), (467, 22407), (482, 22458), (486, 22464), (490, 22473), (492, 22479), (500, 22500), (506, 22533), (513, 22548), (516, 22557), (591, 22680), (607, 22719), (615, 22743), (620, 22755), (649, 22863), (651, 22869), (654, 22878), (656, 22884), (663, 22920), (684, 23007), (709, 23097), (717, 23121),

Gene: Kittykat_25 Start: 20600, Stop: 21994, Start Num: 203

Candidate Starts for Kittykat_25:

(Start: 203 @20600 has 73 MA's), (220, 20657), (259, 20762), (260, 20765), (292, 20849), (350, 20882), (377, 20936), (378, 20939), (402, 21029), (406, 21065), (411, 21086), (417, 21119), (423, 21140), (467, 21272), (474, 21299), (490, 21338), (500, 21365), (506, 21398), (513, 21413), (516, 21422), (535, 21467), (552, 21503), (607, 21584), (615, 21608), (621, 21626), (626, 21638), (643, 21698), (647, 21722), (649, 21728), (650, 21731), (656, 21749), (657, 21752), (662, 21776), (663,

21785), (684, 21872), (698, 21923), (709, 21962),

Gene: Konstantine_65 Start: 46884, Stop: 48941, Start Num: 54

Candidate Starts for Konstantine_65:

(Start: 54 @46884 has 63 MA's), (76, 46944), (77, 46947), (Start: 113 @47040 has 3 MA's), (116, 47052), (124, 47073), (182, 47196), (184, 47199), (189, 47208), (202, 47241), (208, 47262), (217, 47310), (228, 47352), (255, 47415), (262, 47436), (263, 47442), (279, 47496), (350, 47682), (354, 47694), (361, 47712), (368, 47727), (370, 47733), (461, 48051), (462, 48054), (476, 48099), (497, 48150), (500, 48162), (530, 48252), (534, 48264), (548, 48297), (561, 48321), (577, 48330), (607, 48420), (618, 48453), (648, 48564), (649, 48567), (650, 48570), (651, 48573), (665, 48627), (681, 48693), (684, 48711), (738, 48888),

Gene: Korra_30 Start: 22105, Stop: 23505, Start Num: 203

Candidate Starts for Korra_30:

(Start: 203 @22105 has 73 MA's), (220, 22168), (259, 22273), (260, 22276), (292, 22360), (350, 22393), (374, 22444), (378, 22450), (399, 22531), (400, 22534), (402, 22540), (406, 22576), (410, 22594), (411, 22597), (417, 22630), (423, 22651), (440, 22702), (467, 22783), (474, 22810), (486, 22840), (490, 22849), (500, 22876), (506, 22909), (513, 22924), (535, 22978), (544, 22999), (550, 23011), (578, 23023), (621, 23137), (651, 23245), (654, 23254), (656, 23260), (663, 23296), (680, 23356), (684, 23383), (709, 23473),

Gene: Kors_42 Start: 26688, Stop: 28622, Start Num: 62

Candidate Starts for Kors_42:

(14, 26448), (Start: 28 @26592 has 1 MA's), (Start: 58 @26682 has 8 MA's), (Start: 62 @26688 has 6 MA's), (115, 26835), (120, 26853), (124, 26862), (202, 27012), (243, 27138), (276, 27228), (279, 27237), (313, 27312), (318, 27327), (329, 27369), (335, 27399), (376, 27531), (425, 27717), (436, 27735), (444, 27750), (461, 27807), (480, 27867), (517, 27939), (587, 28077), (602, 28143), (606, 28173), (633, 28251), (650, 28329), (665, 28389), (685, 28479), (691, 28497), (724, 28605),

Gene: Krampus_40 Start: 25943, Stop: 27850, Start Num: 60

Candidate Starts for Krampus_40:

(18, 25769), (Start: 60 @25943 has 35 MA's), (85, 26006), (97, 26027), (115, 26081), (194, 26243), (202, 26258), (219, 26303), (276, 26477), (279, 26486), (318, 26576), (329, 26618), (331, 26633), (384, 26819), (423, 26954), (425, 26966), (444, 26999), (500, 27128), (542, 27245), (592, 27320), (649, 27554), (650, 27557), (665, 27617), (685, 27707), (694, 27737), (704, 27779), (722, 27830),

Gene: Kurt_72 Start: 56722, Stop: 54656, Start Num: 35

Candidate Starts for Kurt_72:

(2, 57220), (5, 57019), (8, 56926), (9, 56914), (12, 56896), (Start: 35 @56722 has 34 MA's), (Start: 79 @56584 has 2 MA's), (88, 56560), (178, 56356), (201, 56311), (235, 56203), (279, 56089), (281, 56086), (318, 55996), (320, 55993), (342, 55933), (383, 55795), (388, 55777), (398, 55753), (427, 55630), (461, 55525), (500, 55399), (515, 55345), (580, 55219), (583, 55210), (591, 55186), (604, 55114), (607, 55108), (617, 55078), (634, 55021), (649, 54961), (666, 54898), (684, 54817),

Gene: Kvothe_56 Start: 53206, Stop: 51515, Start Num: 92

Candidate Starts for Kvothe_56:

(Start: 86 @53218 has 9 MA's), (Start: 92 @53206 has 2 MA's), (168, 53023), (Start: 215 @52933 has 28 MA's), (217, 52924), (227, 52888), (229, 52864), (232, 52855), (235, 52846), (254, 52798), (262, 52774), (292, 52702), (342, 52681), (352, 52645), (353, 52642), (395, 52513), (396, 52510), (403, 52474), (404, 52471), (406, 52453), (408, 52444), (411, 52432), (421, 52384), (431, 52351), (447, 52303), (456, 52279), (472, 52213), (503, 52114), (547, 52015), (552, 52006), (583, 51982), (585, 51979), (634, 51886), (641, 51862), (643, 51859), (657, 51802), (660, 51784), (687, 51667), (688, 51664), (691, 51652), (727, 51553), (737, 51532),

Gene: Labella_35 Start: 23381, Stop: 24808, Start Num: 207

Candidate Starts for Labella_35:

(188, 23339), (Start: 207 @23381 has 19 MA's), (361, 23699), (391, 23801), (403, 23846), (406, 23867), (480, 24134), (500, 24182), (502, 24203), (525, 24260), (538, 24293), (554, 24329), (608, 24407), (615, 24428), (642, 24509), (643, 24512), (663, 24599), (668, 24611), (679, 24650), (684, 24686), (690, 24704), (706, 24767),

Gene: Labelle_76 Start: 49171, Stop: 51204, Start Num: 58

Candidate Starts for Labelle_76:

(Start: 58 @49171 has 8 MA's), (69, 49195), (89, 49258), (115, 49324), (133, 49375), (134, 49378), (189, 49486), (202, 49519), (217, 49558), (Start: 225 @49582 has 1 MA's), (243, 49645), (255, 49663), (256, 49666), (262, 49684), (263, 49690), (286, 49759), (296, 49786), (306, 49798), (321, 49831), (350, 49933), (385, 50056), (398, 50086), (423, 50191), (427, 50209), (460, 50299), (461, 50302), (485, 50404), (493, 50443), (497, 50470), (500, 50482), (513, 50530), (519, 50548), (530, 50575), (534, 50587), (538, 50596), (607, 50734), (622, 50779), (648, 50884), (681, 51013), (689, 51046), (694, 51064), (708, 51118), (722, 51157),

Gene: Lahirium_57 Start: 53124, Stop: 51712, Start Num: 215

Candidate Starts for Lahirium_57:

(69, 53472), (112, 53343), (Start: 143 @53253 has 3 MA's), (Start: 215 @53124 has 28 MA's), (227, 53079), (254, 52989), (255, 52986), (257, 52980), (263, 52959), (292, 52896), (371, 52788), (377, 52770), (402, 52683), (403, 52668), (411, 52626), (431, 52545), (447, 52497), (459, 52455), (465, 52437), (466, 52434), (472, 52407), (491, 52356), (503, 52320), (524, 52269), (585, 52185), (591, 52164), (657, 52008), (658, 52002), (660, 51990), (690, 51864), (727, 51750),

Gene: Lakshmi_29 Start: 22120, Stop: 23511, Start Num: 203

Candidate Starts for Lakshmi_29:

(Start: 203 @22120 has 73 MA's), (228, 22207), (259, 22279), (260, 22282), (283, 22345), (285, 22348), (292, 22366), (336, 22372), (350, 22399), (378, 22456), (386, 22507), (389, 22513), (391, 22516), (402, 22546), (406, 22582), (410, 22600), (417, 22636), (423, 22657), (427, 22675), (440, 22708), (457, 22747), (467, 22789), (474, 22816), (482, 22840), (499, 22876), (500, 22882), (506, 22915), (513, 22930), (516, 22939), (535, 22984), (550, 23017), (552, 23020), (608, 23104), (615, 23125), (620, 23137), (626, 23155), (649, 23245), (656, 23266), (657, 23269), (662, 23293), (663, 23302), (684, 23389), (698, 23440), (709, 23479), (717, 23503),

Gene: Lambo_58 Start: 40249, Stop: 42159, Start Num: 54

Candidate Starts for Lambo_58:

(Start: 53 @40246 has 13 MA's), (Start: 54 @40249 has 63 MA's), (Start: 66 @40261 has 2 MA's), (78, 40309), (93, 40342), (173, 40528), (182, 40543), (214, 40609), (235, 40696), (255, 40729), (282, 40810), (286, 40819), (290, 40828), (354, 41002), (356, 41008), (368, 41035), (393, 41128), (400, 41149), (402, 41155), (403, 41170), (406, 41191), (423, 41248), (427, 41266), (445, 41302), (458, 41344), (476, 41404), (506, 41500), (508, 41503), (613, 41731), (642, 41821), (649, 41857), (651, 41863), (665, 41917), (677, 41956), (699, 42058), (703, 42073), (709, 42094),

Gene: LastNadiia_40 Start: 28701, Stop: 26893, Start Num: 63

Candidate Starts for LastNadiia_40:

(Start: 63 @28701 has 10 MA's), (Start: 79 @28641 has 2 MA's), (175, 28440), (Start: 225 @28323 has 1 MA's), (227, 28311), (257, 28227), (340, 28089), (380, 27903), (403, 27810), (406, 27789), (409, 27777), (463, 27618), (468, 27603), (500, 27555), (537, 27486), (540, 27480), (546, 27465), (569, 27426), (572, 27417), (591, 27363), (592, 27360), (597, 27342), (606, 27324), (607, 27321), (652, 27168), (660, 27135), (668, 27108), (674, 27087), (680, 27060), (700, 26970), (714, 26919),

Gene: Laure_105 Start: 73569, Stop: 75428, Start Num: 59

Candidate Starts for Laure_105:

(Start: 59 @73569 has 12 MA's), (144, 73788), (155, 73809), (167, 73830), (171, 73836), (208, 73869), (224, 73938), (227, 73953), (232, 73980), (237, 73995), (244, 74007), (254, 74028), (271, 74085), (278, 74109), (363, 74256), (365, 74268), (406, 74460), (450, 74586), (463, 74631), (469, 74649), (476, 74670), (499, 74688), (500, 74694), (506, 74727), (512, 74739), (523, 74766), (531, 74787), (538, 74805), (569, 74871), (570, 74874), (592, 74931), (617, 75000), (640, 75078), (643, 75084), (644, 75087), (673, 75201), (696, 75309), (712, 75366),

Gene: LavAbarElk_60 Start: 40030, Stop: 41943, Start Num: 54

Candidate Starts for LavAbarElk_60:

(19, 39904), (21, 39913), (22, 39925), (33, 39958), (Start: 53 @40027 has 13 MA's), (Start: 54 @40030 has 63 MA's), (Start: 66 @40042 has 2 MA's), (78, 40090), (93, 40123), (117, 40192), (155, 40282), (173, 40309), (178, 40318), (214, 40390), (255, 40510), (274, 40573), (314, 40663), (322, 40690), (368, 40819), (376, 40843), (383, 40885), (393, 40912), (400, 40933), (403, 40954), (406, 40975), (423, 41032), (427, 41050), (445, 41086), (458, 41128), (476, 41188), (506, 41284), (508, 41287), (613, 41515), (642, 41605), (649, 41641), (651, 41647), (665, 41701), (677, 41740), (699, 41842), (703, 41857), (709, 41878),

Gene: LazerLemon_42 Start: 31529, Stop: 32923, Start Num: 209

Candidate Starts for LazerLemon_42:

(Start: 161 @31445 has 1 MA's), (Start: 209 @31529 has 13 MA's), (Start: 215 @31562 has 28 MA's), (227, 31607), (231, 31631), (254, 31661), (255, 31664), (259, 31676), (341, 31766), (352, 31790), (391, 31901), (408, 31976), (417, 32021), (432, 32072), (433, 32075), (439, 32096), (480, 32237), (492, 32264), (500, 32285), (502, 32306), (525, 32363), (535, 32390), (538, 32396), (542, 32405), (582, 32447), (607, 32513), (608, 32516), (615, 32537), (621, 32555), (629, 32573), (643, 32627), (663, 32714), (665, 32717), (679, 32765), (686, 32804), (690, 32819), (708, 32888), (713, 32906), (717, 32915),

Gene: Lederberg_45 Start: 37131, Stop: 38507, Start Num: 206

Candidate Starts for Lederberg_45:

(Start: 206 @37131 has 7 MA's), (Start: 225 @37200 has 1 MA's), (228, 37218), (261, 37311), (283, 37371), (286, 37377), (287, 37380), (373, 37500), (379, 37518), (406, 37635), (464, 37773), (475, 37812), (490, 37845), (492, 37851), (499, 37866), (506, 37905), (532, 37965), (542, 37989), (584, 38025), (613, 38094), (616, 38100), (643, 38181), (666, 38277), (669, 38289), (673, 38301), (684, 38358), (687, 38364), (690, 38376), (697, 38406), (711, 38457),

Gene: LeoJr_100 Start: 80857, Stop: 82713, Start Num: 59

Candidate Starts for LeoJr_100:

(Start: 59 @80857 has 12 MA's), (167, 81130), (227, 81235), (268, 81358), (273, 81370), (275, 81379), (345, 81475), (365, 81550), (376, 81610), (411, 81763), (424, 81808), (450, 81868), (463, 81913), (499, 81970), (500, 81976), (506, 82009), (512, 82021), (516, 82033), (569, 82150), (570, 82153), (592, 82210), (606, 82246), (610, 82258), (617, 82279), (643, 82363), (666, 82456), (673, 82480), (713, 82648), (714, 82651),

Gene: Leopard_64 Start: 46071, Stop: 48014, Start Num: 54

Candidate Starts for Leopard_64:

(Start: 54 @46071 has 63 MA's), (67, 46092), (74, 46122), (Start: 113 @46221 has 3 MA's), (136, 46284), (173, 46356), (178, 46365), (202, 46413), (304, 46686), (305, 46689), (355, 46851), (370, 46887), (385, 46959), (390, 46968), (402, 47001), (411, 47058), (414, 47070), (445, 47139), (447, 47148), (454, 47166), (461, 47190), (497, 47286), (500, 47298), (506, 47331), (525, 47373), (552, 47436), (599, 47541), (659, 47757), (665, 47781), (666, 47784), (678, 47826), (683, 47856), (689, 47880), (731, 47997),

Gene: Lidong_57 Start: 52859, Stop: 51447, Start Num: 215

Candidate Starts for Lidong_57:

(69, 53207), (112, 53078), (Start: 143 @52988 has 3 MA's), (Start: 215 @52859 has 28 MA's), (227, 52814), (254, 52724), (255, 52721), (257, 52715), (263, 52694), (292, 52631), (359, 52553), (371, 52523), (377, 52505), (402, 52418), (403, 52403), (411, 52361), (431, 52280), (447, 52232), (459, 52190), (465, 52172), (466, 52169), (472, 52142), (491, 52091), (503, 52055), (524, 52004), (585, 51920), (591, 51899), (657, 51743), (658, 51737), (660, 51725), (690, 51599), (727, 51485),

Gene: LilStuart_25 Start: 20568, Stop: 21962, Start Num: 203

Candidate Starts for LilStuart_25:

(Start: 203 @20568 has 73 MA's), (220, 20625), (259, 20730), (260, 20733), (292, 20817), (350, 20850), (374, 20901), (378, 20907), (399, 20988), (400, 20991), (402, 20997), (406, 21033), (410, 21051), (411, 21054), (417, 21087), (423, 21108), (467, 21240), (474, 21267), (490, 21306), (499, 21327), (500, 21333), (506, 21366), (513, 21381), (516, 21390), (535, 21435), (552, 21471), (591, 21513), (615, 21576), (621, 21594), (649, 21696), (650, 21699), (656, 21717), (657, 21720), (662, 21744), (663, 21753), (684, 21840), (709, 21930), (717, 21954), (718, 21957),

Gene: Lila22_61 Start: 41200, Stop: 43113, Start Num: 54

Candidate Starts for Lila22_61:

(Start: 53 @41197 has 13 MA's), (Start: 54 @41200 has 63 MA's), (Start: 66 @41212 has 2 MA's), (78, 41260), (93, 41293), (173, 41479), (182, 41494), (214, 41560), (235, 41647), (252, 41677), (255, 41680), (274, 41743), (282, 41761), (286, 41770), (314, 41833), (322, 41860), (368, 41989), (376, 42013), (383, 42055), (400, 42103), (403, 42124), (406, 42145), (423, 42202), (445, 42256), (458, 42298), (476, 42358), (506, 42454), (508, 42457), (598, 42634), (613, 42685), (642, 42775), (649, 42811), (651, 42817), (665, 42871), (677, 42910), (699, 43012), (703, 43027), (709, 43048),

Gene: LilyPad_52 Start: 37853, Stop: 39895, Start Num: 57

Candidate Starts for LilyPad_52:

(Start: 57 @37853 has 8 MA's), (117, 38006), (138, 38066), (202, 38180), (214, 38204), (234, 38288), (255, 38324), (322, 38492), (325, 38498), (328, 38519), (359, 38606), (393, 38717), (403, 38759), (406, 38780), (427, 38855), (461, 38939), (467, 38960), (473, 38975), (494, 39020), (495, 39023), (499, 39035), (500, 39041), (501, 39044), (508, 39077), (530, 39131), (538, 39152), (552, 39182), (556, 39194), (563, 39227), (565, 39296), (580, 39353), (595, 39401), (604, 39446), (613, 39473), (655, 39620), (670, 39680), (681, 39728), (684, 39749), (700, 39806), (704, 39824), (709, 39839), (728, 39881),

Gene: Linayshia_33 Start: 23433, Stop: 24860, Start Num: 207

Candidate Starts for Linayshia_33:

(183, 23391), (Start: 207 @23433 has 19 MA's), (377, 23790), (391, 23853), (403, 23898), (406, 23919), (480, 24186), (500, 24234), (502, 24255), (513, 24282), (524, 24309), (525, 24312), (535, 24339), (538, 24345), (554, 24381), (608, 24459), (615, 24480), (621, 24498), (626, 24510), (649, 24594), (663, 24651), (668, 24663), (679, 24702), (684, 24738), (687, 24744),

Gene: Linetti_59 Start: 53022, Stop: 51613, Start Num: 215

Candidate Starts for Linetti_59:

(69, 53400), (81, 53349), (103, 53298), (121, 53244), (131, 53214), (Start: 143 @53181 has 3 MA's), (149, 53172), (Start: 162 @53145 has 28 MA's), (Start: 215 @53022 has 28 MA's), (227, 52977), (235, 52935), (254, 52887), (255, 52884), (257, 52878), (258, 52875), (262, 52863), (263, 52857), (279, 52821), (285, 52809), (286, 52806), (371, 52686), (377, 52668), (395, 52605), (402, 52581), (403, 52566), (411, 52524), (430, 52446), (447, 52395), (465, 52335), (466, 52332), (468, 52323), (472, 52305), (487, 52263), (503, 52218), (585, 52083), (589, 52068), (595, 52047), (641, 51966), (643, 51963), (657, 51906), (658, 51900), (660, 51888), (675, 51837), (679, 51822), (680, 51813), (687,

51774), (690, 51762), (718, 51666), (727, 51651),

Gene: Litotes_29 Start: 22115, Stop: 23509, Start Num: 203

Candidate Starts for Litotes_29:

(Start: 203 @22115 has 73 MA's), (220, 22172), (259, 22277), (292, 22364), (377, 22451), (378, 22454), (402, 22544), (406, 22580), (408, 22589), (410, 22598), (423, 22655), (427, 22673), (440, 22706), (446, 22718), (467, 22787), (474, 22814), (482, 22838), (500, 22880), (506, 22913), (513, 22928), (516, 22937), (578, 23027), (606, 23096), (615, 23123), (621, 23141), (626, 23153), (649, 23243), (651, 23249), (654, 23258), (656, 23264), (663, 23300), (684, 23387), (698, 23438), (700, 23444), (709, 23477), (717, 23501),

Gene: LittleFella_57 Start: 39855, Stop: 41873, Start Num: 54

Candidate Starts for LittleFella_57:

(Start: 54 @39855 has 63 MA's), (130, 40053), (134, 40062), (136, 40065), (148, 40095), (173, 40137), (178, 40146), (Start: 215 @40224 has 28 MA's), (218, 40236), (235, 40305), (255, 40338), (256, 40341), (325, 40521), (348, 40602), (359, 40629), (390, 40734), (403, 40776), (406, 40797), (461, 40956), (468, 40980), (494, 41037), (495, 41040), (500, 41058), (509, 41097), (533, 41157), (538, 41169), (545, 41187), (552, 41199), (557, 41220), (568, 41307), (574, 41310), (575, 41313), (595, 41379), (604, 41424), (613, 41451), (642, 41544), (659, 41619), (661, 41631), (665, 41643), (668, 41652), (670, 41661), (681, 41709), (684, 41727), (700, 41784), (709, 41817), (730, 41856),

Gene: Lizz_70 Start: 50158, Stop: 48272, Start Num: 54

Candidate Starts for Lizz_70:

(Start: 39 @50218 has 1 MA's), (Start: 54 @50158 has 63 MA's), (64, 50143), (85, 50080), (89, 50071), (97, 50059), (132, 49966), (159, 49903), (173, 49885), (202, 49828), (214, 49804), (264, 49645), (276, 49606), (279, 49597), (323, 49489), (358, 49381), (383, 49276), (408, 49177), (425, 49117), (460, 49030), (461, 49027), (506, 48922), (511, 48913), (515, 48901), (580, 48802), (613, 48685), (618, 48673), (629, 48646), (650, 48556), (655, 48541), (668, 48487), (681, 48430), (715, 48304),

Gene: Lizzo_59 Start: 52326, Stop: 50794, Start Num: 162

Candidate Starts for Lizzo_59:

(69, 52581), (81, 52530), (103, 52479), (121, 52425), (131, 52395), (Start: 143 @52362 has 3 MA's), (149, 52353), (Start: 162 @52326 has 28 MA's), (227, 52158), (235, 52116), (254, 52068), (258, 52056), (262, 52044), (263, 52038), (269, 52017), (285, 51990), (377, 51849), (402, 51762), (403, 51747), (405, 51735), (411, 51705), (422, 51654), (430, 51627), (447, 51576), (456, 51552), (459, 51534), (465, 51516), (466, 51513), (472, 51486), (487, 51444), (503, 51399), (585, 51264), (589, 51249), (595, 51228), (634, 51171), (641, 51147), (657, 51087), (658, 51081), (659, 51075), (660, 51069), (675, 51018), (680, 50994), (687, 50955), (690, 50943), (691, 50940), (718, 50847), (727, 50832), (737, 50811),

Gene: Lollipop1437_76 Start: 57598, Stop: 55541, Start Num: 35

Candidate Starts for Lollipop1437_76:

(6, 57886), (10, 57778), (Start: 35 @57598 has 34 MA's), (189, 57223), (228, 57115), (236, 57082), (262, 57031), (279, 56971), (281, 56968), (311, 56896), (318, 56878), (342, 56815), (343, 56809), (352, 56782), (377, 56716), (383, 56677), (388, 56659), (398, 56635), (427, 56512), (441, 56479), (461, 56416), (500, 56293), (522, 56224), (530, 56206), (583, 56101), (586, 56092), (601, 56032), (607, 55993), (617, 55963), (634, 55906), (649, 55846), (658, 55816), (666, 55783), (707, 55618),

Gene: LordBart_42 Start: 26597, Stop: 28531, Start Num: 62

Candidate Starts for LordBart_42:

(14, 26357), (Start: 28 @26501 has 1 MA's), (Start: 58 @26591 has 8 MA's), (Start: 62 @26597 has 6 MA's), (115, 26744), (120, 26762), (202, 26921), (276, 27137), (279, 27146), (318, 27236), (329, 27278), (335, 27308), (376, 27440), (425, 27626), (436, 27644), (444, 27659), (461, 27716), (480,

27776), (517, 27848), (587, 27986), (602, 28052), (606, 28082), (607, 28085), (633, 28160), (650, 28238), (665, 28298), (685, 28388), (691, 28406),

Gene: LuckyBarnes_64 Start: 49560, Stop: 48223, Start Num: 210

Candidate Starts for LuckyBarnes_64:

(139, 49698), (172, 49635), (Start: 210 @49560 has 1 MA's), (227, 49485), (228, 49479), (241, 49449), (262, 49401), (266, 49383), (286, 49344), (349, 49290), (378, 49221), (396, 49149), (409, 49083), (448, 49002), (475, 48915), (482, 48897), (486, 48891), (490, 48882), (513, 48807), (542, 48735), (596, 48648), (606, 48633), (613, 48609), (615, 48606), (616, 48603), (678, 48384), (684, 48345), (686, 48342), (696, 48300), (706, 48264),

Gene: LuckyLeo_57 Start: 40044, Stop: 41966, Start Num: 53

Candidate Starts for LuckyLeo_57:

(20, 39927), (23, 39948), (30, 39969), (42, 39999), (47, 40032), (Start: 53 @40044 has 13 MA's), (Start: 54 @40047 has 63 MA's), (Start: 66 @40062 has 2 MA's), (70, 40077), (78, 40110), (93, 40143), (95, 40146), (Start: 113 @40194 has 3 MA's), (117, 40212), (155, 40302), (166, 40320), (173, 40329), (178, 40338), (214, 40410), (255, 40530), (256, 40533), (274, 40593), (282, 40611), (314, 40683), (322, 40710), (370, 40845), (376, 40863), (383, 40905), (390, 40926), (393, 40932), (403, 40974), (406, 40995), (411, 41016), (423, 41052), (458, 41151), (460, 41160), (476, 41211), (506, 41307), (508, 41310), (579, 41421), (598, 41487), (604, 41511), (613, 41538), (660, 41706), (665, 41724), (672, 41748), (677, 41763), (678, 41769), (684, 41811), (689, 41826), (699, 41865), (703, 41880), (709, 41901), (735, 41958),

Gene: LuckySocle_124 Start: 67230, Stop: 68801, Start Num: 205

Candidate Starts for LuckySocle_124:

(Start: 205 @67230 has 5 MA's), (226, 67311), (229, 67335), (258, 67401), (292, 67482), (354, 67548), (378, 67614), (379, 67623), (402, 67701), (409, 67752), (435, 67854), (441, 67875), (443, 67878), (458, 67929), (459, 67938), (463, 67953), (467, 67965), (480, 68013), (488, 68028), (607, 68298), (611, 68310), (620, 68334), (645, 68421), (663, 68514), (668, 68526), (671, 68538), (693, 68646), (694, 68658), (709, 68715), (712, 68727), (714, 68733), (737, 68781),

Gene: Lucy_25 Start: 20556, Stop: 21950, Start Num: 203

Candidate Starts for Lucy_25:

(Start: 203 @20556 has 73 MA's), (220, 20613), (259, 20718), (260, 20721), (292, 20805), (350, 20838), (378, 20895), (399, 20976), (400, 20979), (402, 20985), (406, 21021), (410, 21039), (411, 21042), (417, 21075), (423, 21096), (440, 21147), (467, 21228), (474, 21255), (490, 21294), (499, 21315), (500, 21321), (506, 21354), (513, 21369), (525, 21396), (535, 21423), (552, 21459), (615, 21564), (621, 21582), (649, 21684), (650, 21687), (656, 21705), (657, 21708), (662, 21732), (663, 21741), (684, 21828), (698, 21879), (699, 21882), (709, 21918), (717, 21942),

Gene: Luker_58 Start: 53170, Stop: 51665, Start Num: 161

Candidate Starts for Luker_58:

(69, 53425), (112, 53296), (Start: 143 @53206 has 3 MA's), (Start: 161 @53170 has 1 MA's), (Start: 215 @53077 has 28 MA's), (227, 53032), (254, 52942), (255, 52939), (257, 52933), (263, 52912), (292, 52849), (371, 52741), (377, 52723), (402, 52636), (403, 52621), (411, 52579), (431, 52498), (447, 52450), (459, 52408), (465, 52390), (466, 52387), (472, 52360), (491, 52309), (503, 52273), (524, 52222), (585, 52138), (591, 52117), (657, 51961), (658, 51955), (660, 51943), (690, 51817), (727, 51703),

Gene: MacGully_81 Start: 56374, Stop: 54335, Start Num: 38

Candidate Starts for MacGully_81:

(Start: 38 @56374 has 1 MA's), (Start: 59 @56305 has 12 MA's), (Start: 63 @56299 has 10 MA's), (202, 55975), (Start: 215 @55951 has 28 MA's), (235, 55870), (236, 55867), (276, 55765), (279,

55756), (292, 55726), (318, 55660), (344, 55588), (370, 55519), (385, 55447), (403, 55390), (461, 55210), (468, 55186), (488, 55123), (500, 55087), (522, 55018), (525, 55012), (530, 55000), (601, 54826), (658, 54604), (666, 54571), (678, 54529), (683, 54499), (684, 54490), (692, 54466), (694, 54457), (704, 54415),

Gene: Madi_50 Start: 36692, Stop: 38746, Start Num: 57

Candidate Starts for Madi_50:

(Start: 57 @36692 has 8 MA's), (70, 36716), (95, 36779), (125, 36863), (138, 36905), (234, 37127), (255, 37163), (279, 37238), (294, 37277), (319, 37319), (325, 37337), (328, 37358), (330, 37370), (354, 37430), (359, 37445), (368, 37463), (385, 37541), (393, 37556), (394, 37559), (403, 37598), (406, 37619), (444, 37721), (461, 37778), (467, 37799), (468, 37802), (473, 37814), (495, 37862), (497, 37868), (508, 37916), (520, 37949), (531, 37973), (538, 37991), (552, 38021), (566, 38144), (575, 38177), (578, 38189), (583, 38204), (595, 38243), (604, 38288), (613, 38315), (639, 38399), (655, 38462), (665, 38504), (668, 38513), (670, 38522), (681, 38570), (683, 38579), (684, 38591), (689, 38606), (700, 38648),

Gene: Madruga_74 Start: 48812, Stop: 50845, Start Num: 58

Candidate Starts for Madruga_74:

(29, 48722), (Start: 58 @48812 has 8 MA's), (69, 48836), (89, 48899), (115, 48965), (133, 49016), (134, 49019), (189, 49127), (202, 49160), (217, 49199), (Start: 225 @49223 has 1 MA's), (243, 49286), (255, 49304), (262, 49325), (263, 49331), (286, 49400), (296, 49427), (306, 49439), (321, 49472), (350, 49574), (385, 49697), (398, 49727), (423, 49832), (427, 49850), (460, 49940), (461, 49943), (485, 50045), (493, 50084), (497, 50111), (500, 50123), (513, 50171), (519, 50189), (530, 50216), (534, 50228), (538, 50237), (607, 50375), (622, 50420), (648, 50525), (681, 50654), (689, 50687), (694, 50705), (708, 50759), (722, 50798),

Gene: Magritte_46 Start: 45422, Stop: 47152, Start Num: 106

Candidate Starts for Magritte_46:

(Start: 106 @45422 has 1 MA's), (Start: 113 @45440 has 3 MA's), (200, 45632), (227, 45725), (235, 45767), (253, 45797), (264, 45827), (267, 45839), (285, 45893), (286, 45896), (359, 45992), (367, 46013), (379, 46055), (386, 46097), (403, 46160), (416, 46226), (423, 46256), (441, 46313), (512, 46502), (527, 46535), (586, 46631), (588, 46637), (594, 46658), (631, 46763), (633, 46769), (666, 46904), (676, 46937), (687, 46994), (704, 47063),

Gene: Makima_38 Start: 27813, Stop: 26014, Start Num: 63

Candidate Starts for Makima_38:

(Start: 63 @27813 has 10 MA's), (Start: 79 @27756 has 2 MA's), (111, 27693), (Start: 225 @27438 has 1 MA's), (227, 27426), (257, 27342), (340, 27204), (372, 27054), (380, 27018), (386, 26982), (403, 26928), (406, 26907), (458, 26757), (463, 26736), (499, 26679), (500, 26673), (528, 26628), (537, 26604), (540, 26598), (551, 26574), (569, 26544), (572, 26535), (597, 26460), (606, 26442), (607, 26439), (652, 26286), (668, 26226), (680, 26178), (713, 26040), (714, 26037),

Gene: Makoto_25 Start: 20576, Stop: 21970, Start Num: 203

Candidate Starts for Makoto_25:

(Start: 203 @20576 has 73 MA's), (220, 20633), (259, 20738), (292, 20825), (350, 20858), (378, 20915), (386, 20966), (399, 20996), (400, 20999), (402, 21005), (406, 21041), (410, 21059), (411, 21062), (417, 21095), (423, 21116), (467, 21248), (474, 21275), (490, 21314), (499, 21335), (500, 21341), (506, 21374), (513, 21389), (516, 21398), (535, 21443), (552, 21479), (591, 21521), (615, 21584), (621, 21602), (649, 21704), (650, 21707), (656, 21725), (657, 21728), (662, 21752), (663, 21761), (684, 21848), (709, 21938), (717, 21962),

Gene: MamaPearl_26 Start: 21743, Stop: 23140, Start Num: 203

Candidate Starts for MamaPearl_26:

(Start: 203 @21743 has 73 MA's), (220, 21803), (259, 21908), (260, 21911), (292, 21995), (350, 22028), (374, 22079), (378, 22085), (399, 22166), (402, 22175), (406, 22211), (410, 22229), (411, 22232), (417, 22265), (423, 22286), (467, 22418), (486, 22475), (490, 22484), (499, 22505), (500, 22511), (506, 22544), (513, 22559), (538, 22619), (552, 22649), (607, 22730), (621, 22772), (633, 22805), (647, 22868), (650, 22877), (654, 22889), (656, 22895), (659, 22910), (662, 22922), (663, 22931), (684, 23018), (700, 23075), (709, 23108),

Gene: Mareelih_167 Start: 96276, Stop: 94366, Start Num: 58

Candidate Starts for Mareelih_167:

(Start: 58 @96276 has 8 MA's), (138, 96072), (163, 96024), (193, 95979), (217, 95898), (222, 95886), (255, 95781), (263, 95754), (334, 95649), (344, 95625), (381, 95460), (461, 95193), (463, 95184), (473, 95157), (506, 95088), (592, 94839), (613, 94773), (622, 94749), (659, 94614), (676, 94554), (690, 94482),

Gene: Maria1952_26 Start: 21732, Stop: 23129, Start Num: 203

Candidate Starts for Maria1952_26:

(Start: 203 @21732 has 73 MA's), (220, 21792), (252, 21879), (259, 21897), (260, 21900), (292, 21984), (336, 21990), (350, 22017), (374, 22068), (378, 22074), (386, 22125), (391, 22134), (399, 22155), (402, 22164), (406, 22200), (411, 22221), (417, 22254), (423, 22275), (427, 22293), (430, 22299), (440, 22326), (446, 22338), (451, 22353), (467, 22407), (482, 22458), (486, 22464), (490, 22473), (492, 22479), (500, 22500), (506, 22533), (513, 22548), (516, 22557), (591, 22680), (607, 22719), (615, 22743), (620, 22755), (649, 22863), (651, 22869), (654, 22878), (656, 22884), (663, 22920), (684, 23007), (709, 23097), (717, 23121),

Gene: Marietta_72 Start: 52748, Stop: 50667, Start Num: 35

Candidate Starts for Marietta_72:

(9, 52940), (12, 52922), (17, 52847), (Start: 35 @52748 has 34 MA's), (235, 52229), (255, 52196), (262, 52175), (277, 52121), (279, 52115), (281, 52112), (318, 52022), (320, 52019), (342, 51959), (388, 51803), (427, 51656), (461, 51548), (468, 51524), (500, 51422), (515, 51368), (522, 51353), (556, 51272), (583, 51233), (599, 51170), (604, 51131), (607, 51125), (617, 51095), (649, 50978), (666, 50915), (681, 50852), (684, 50834), (707, 50750),

Gene: Marky_44 Start: 31624, Stop: 33015, Start Num: 211

Candidate Starts for Marky_44:

(198, 31615), (Start: 211 @31624 has 3 MA's), (212, 31630), (227, 31699), (231, 31723), (259, 31768), (342, 31861), (374, 31927), (403, 32038), (408, 32068), (409, 32071), (440, 32194), (480, 32329), (492, 32356), (500, 32377), (502, 32398), (506, 32410), (582, 32539), (608, 32608), (615, 32629), (621, 32647), (629, 32665), (643, 32719), (649, 32749), (663, 32806), (665, 32809), (679, 32857), (694, 32926), (708, 32980), (713, 32998),

Gene: Maselop_72 Start: 53166, Stop: 51130, Start Num: 36

Candidate Starts for Maselop_72:

(13, 53334), (Start: 36 @53166 has 6 MA's), (Start: 57 @53100 has 8 MA's), (72, 53058), (115, 52953), (201, 52773), (224, 52716), (235, 52665), (243, 52650), (276, 52560), (281, 52548), (318, 52455), (344, 52383), (370, 52314), (385, 52242), (403, 52185), (461, 52005), (468, 51981), (488, 51918), (500, 51882), (530, 51795), (592, 51663), (600, 51624), (601, 51621), (607, 51576), (649, 51429), (666, 51366), (678, 51324), (684, 51285), (692, 51261),

Gene: Mbo2_52 Start: 42925, Stop: 41438, Start Num: 190

Candidate Starts for Mbo2_52:

(139, 43012), (Start: 190 @42925 has 3 MA's), (217, 42838), (227, 42802), (229, 42784), (235, 42769), (240, 42754), (246, 42742), (254, 42730), (256, 42724), (268, 42682), (359, 42559), (396, 42445), (410, 42370), (422, 42316), (446, 42241), (447, 42238), (456, 42214), (466, 42175), (475, 42136),

(500, 42094), (591, 41911), (619, 41851), (627, 41833), (641, 41788), (643, 41785), (653, 41737), (656, 41728), (660, 41707), (664, 41689), (672, 41665), (679, 41641), (687, 41599), (694, 41572), (696, 41560), (704, 41530), (709, 41515), (727, 41473),

Gene: MeganNoll_29 Start: 22157, Stop: 23557, Start Num: 203

Candidate Starts for MeganNoll_29:

(Start: 203 @22157 has 73 MA's), (220, 22220), (259, 22325), (260, 22328), (292, 22412), (350, 22445), (374, 22496), (378, 22502), (399, 22583), (400, 22586), (402, 22592), (406, 22628), (410, 22646), (411, 22649), (423, 22703), (440, 22754), (467, 22835), (474, 22862), (486, 22892), (490, 22901), (500, 22928), (506, 22961), (513, 22976), (535, 23030), (544, 23051), (550, 23063), (578, 23075), (651, 23297), (654, 23306), (656, 23312), (663, 23348), (680, 23408), (684, 23435), (709, 23525),

Gene: Megatron06_62 Start: 46630, Stop: 48687, Start Num: 54

Candidate Starts for Megatron06_62:

(Start: 54 @46630 has 63 MA's), (76, 46690), (77, 46693), (Start: 113 @46786 has 3 MA's), (116, 46798), (124, 46819), (182, 46942), (184, 46945), (189, 46954), (202, 46987), (208, 47008), (217, 47056), (228, 47098), (255, 47161), (262, 47182), (263, 47188), (279, 47242), (350, 47428), (354, 47440), (361, 47458), (368, 47473), (370, 47479), (461, 47797), (462, 47800), (476, 47845), (497, 47896), (500, 47908), (530, 47998), (534, 48010), (548, 48043), (561, 48067), (577, 48076), (607, 48166), (618, 48199), (648, 48310), (649, 48313), (650, 48316), (651, 48319), (660, 48355), (665, 48373), (681, 48439), (684, 48457), (738, 48634),

Gene: MerCougar_75 Start: 57668, Stop: 55593, Start Num: 35

Candidate Starts for MerCougar_75:

(Start: 35 @57668 has 34 MA's), (72, 57548), (Start: 90 @57503 has 4 MA's), (Start: 92 @57500 has 2 MA's), (201, 57257), (224, 57200), (235, 57149), (262, 57095), (281, 57032), (318, 56942), (320, 56939), (326, 56915), (342, 56879), (388, 56723), (398, 56699), (427, 56576), (461, 56465), (468, 56441), (500, 56342), (515, 56288), (538, 56234), (556, 56192), (583, 56153), (592, 56126), (601, 56084), (604, 56051), (617, 56015), (633, 55970), (634, 55958), (649, 55898), (684, 55754), (707, 55670),

Gene: Microdon_41 Start: 30843, Stop: 32237, Start Num: 209

Candidate Starts for Microdon_41:

(Start: 209 @30843 has 13 MA's), (Start: 211 @30846 has 3 MA's), (227, 30921), (231, 30945), (233, 30951), (254, 30975), (259, 30990), (260, 30993), (288, 31065), (341, 31080), (356, 31116), (391, 31215), (440, 31416), (480, 31551), (492, 31578), (500, 31599), (525, 31677), (538, 31710), (542, 31719), (582, 31761), (607, 31827), (608, 31830), (615, 31851), (621, 31869), (629, 31887), (643, 31941), (649, 31971), (663, 32028), (665, 32031), (679, 32079), (686, 32118), (690, 32133), (708, 32202), (713, 32220), (717, 32229),

Gene: Milani_33 Start: 22173, Stop: 23600, Start Num: 207

Candidate Starts for Milani_33:

(Start: 207 @22173 has 19 MA's), (374, 22527), (377, 22530), (381, 22551), (403, 22638), (500, 22974), (502, 22995), (513, 23022), (524, 23049), (525, 23052), (538, 23085), (554, 23121), (607, 23196), (615, 23220), (634, 23283), (643, 23304), (657, 23358), (663, 23391), (668, 23403), (679, 23442), (684, 23478), (687, 23484), (690, 23496), (694, 23511), (706, 23559), (709, 23568), (717, 23592),

Gene: Mima20_60 Start: 40803, Stop: 42716, Start Num: 54

Candidate Starts for Mima20_60:

(Start: 53 @40800 has 13 MA's), (Start: 54 @40803 has 63 MA's), (Start: 66 @40815 has 2 MA's), (78, 40863), (93, 40896), (117, 40965), (155, 41055), (173, 41082), (178, 41091), (214, 41163), (255,

41283), (274, 41346), (314, 41436), (322, 41463), (368, 41592), (376, 41616), (383, 41658), (400, 41706), (403, 41727), (406, 41748), (423, 41805), (445, 41859), (458, 41901), (476, 41961), (506, 42057), (508, 42060), (598, 42237), (613, 42288), (642, 42378), (649, 42414), (651, 42420), (665, 42474), (677, 42513), (699, 42615), (703, 42630), (709, 42651),

Gene: Mimi_101 Start: 80085, Stop: 81923, Start Num: 59

Candidate Starts for Mimi_101:

(Start: 59 @80085 has 12 MA's), (84, 80166), (120, 80244), (167, 80340), (Start: 215 @80400 has 28 MA's), (224, 80430), (263, 80550), (278, 80601), (338, 80661), (420, 81000), (443, 81057), (450, 81078), (463, 81123), (499, 81180), (500, 81186), (506, 81219), (512, 81231), (516, 81243), (534, 81288), (552, 81327), (579, 81384), (581, 81390), (592, 81423), (617, 81492), (643, 81576), (673, 81693), (716, 81867), (736, 81909),

Gene: Minos_58 Start: 52601, Stop: 51189, Start Num: 215

Candidate Starts for Minos_58:

(69, 52949), (112, 52820), (142, 52733), (Start: 143 @52730 has 3 MA's), (Start: 215 @52601 has 28 MA's), (227, 52556), (254, 52466), (255, 52463), (257, 52457), (263, 52436), (292, 52373), (371, 52265), (377, 52247), (402, 52160), (403, 52145), (411, 52103), (431, 52022), (447, 51974), (459, 51932), (465, 51914), (466, 51911), (472, 51884), (491, 51833), (503, 51797), (524, 51746), (585, 51662), (591, 51641), (657, 51485), (658, 51479), (660, 51467), (690, 51341), (727, 51227),

Gene: Mireles_41 Start: 27371, Stop: 25572, Start Num: 63

Candidate Starts for Mireles_41:

(Start: 63 @27371 has 10 MA's), (Start: 79 @27314 has 2 MA's), (111, 27251), (Start: 225 @26996 has 1 MA's), (227, 26984), (257, 26900), (293, 26789), (340, 26762), (372, 26612), (380, 26576), (386, 26540), (403, 26486), (406, 26465), (463, 26294), (499, 26237), (500, 26231), (528, 26186), (537, 26162), (540, 26156), (551, 26132), (569, 26102), (572, 26093), (597, 26018), (606, 26000), (607, 25997), (652, 25844), (668, 25784), (680, 25736), (713, 25598), (714, 25595),

Gene: Misaeng_29 Start: 22230, Stop: 23621, Start Num: 203

Candidate Starts for Misaeng_29:

(Start: 203 @22230 has 73 MA's), (228, 22317), (259, 22389), (260, 22392), (285, 22458), (292, 22476), (350, 22509), (378, 22566), (399, 22647), (402, 22656), (406, 22692), (410, 22710), (417, 22746), (423, 22767), (427, 22785), (440, 22818), (467, 22899), (474, 22926), (482, 22950), (499, 22986), (500, 22992), (506, 23025), (513, 23040), (516, 23049), (535, 23094), (550, 23127), (552, 23130), (608, 23214), (620, 23247), (621, 23253), (626, 23265), (649, 23355), (651, 23361), (656, 23376), (657, 23379), (659, 23391), (662, 23403), (663, 23412), (684, 23499), (709, 23589),

Gene: MoiGyank_63 Start: 41576, Stop: 43489, Start Num: 54

Candidate Starts for MoiGyank_63:

(Start: 53 @41573 has 13 MA's), (Start: 54 @41576 has 63 MA's), (Start: 66 @41588 has 2 MA's), (78, 41636), (93, 41669), (117, 41738), (155, 41828), (173, 41855), (178, 41864), (214, 41936), (255, 42056), (274, 42119), (314, 42209), (368, 42365), (376, 42389), (383, 42431), (400, 42479), (403, 42500), (406, 42521), (423, 42578), (427, 42596), (445, 42632), (458, 42674), (476, 42734), (506, 42830), (508, 42833), (598, 43010), (613, 43061), (642, 43151), (649, 43187), (651, 43193), (660, 43229), (665, 43247), (677, 43286), (699, 43388), (703, 43403), (709, 43424),

Gene: Moki_25 Start: 20566, Stop: 21960, Start Num: 203

Candidate Starts for Moki_25:

(Start: 203 @20566 has 73 MA's), (220, 20623), (259, 20728), (292, 20815), (350, 20848), (377, 20902), (378, 20905), (402, 20995), (406, 21031), (410, 21049), (411, 21052), (423, 21106), (467, 21238), (474, 21265), (486, 21295), (490, 21304), (500, 21331), (506, 21364), (513, 21379), (525, 21406), (535, 21433), (552, 21469), (591, 21511), (615, 21574), (621, 21592), (643, 21664), (647,

21688), (649, 21694), (650, 21697), (656, 21715), (657, 21718), (662, 21742), (663, 21751), (684, 21838), (698, 21889), (709, 21928),

Gene: Monty_58 Start: 51476, Stop: 49944, Start Num: 162

Candidate Starts for Monty_58:

(69, 51731), (81, 51680), (103, 51629), (121, 51575), (131, 51545), (Start: 143 @51512 has 3 MA's), (149, 51503), (Start: 162 @51476 has 28 MA's), (227, 51308), (235, 51266), (254, 51218), (258, 51206), (262, 51194), (263, 51188), (269, 51167), (285, 51140), (377, 50999), (402, 50912), (403, 50897), (405, 50885), (411, 50855), (422, 50804), (430, 50777), (447, 50726), (465, 50666), (466, 50663), (472, 50636), (487, 50594), (503, 50549), (585, 50414), (589, 50399), (595, 50378), (641, 50297), (643, 50294), (657, 50237), (658, 50231), (659, 50225), (660, 50219), (680, 50144), (687, 50105), (690, 50093), (691, 50090), (718, 49997), (727, 49982), (737, 49961),

Gene: MontyDev_68 Start: 47606, Stop: 49366, Start Num: 191

Candidate Starts for MontyDev_68:

(Start: 191 @47606 has 9 MA's), (218, 47675), (251, 47771), (256, 47780), (280, 47861), (300, 47906), (357, 48083), (368, 48107), (382, 48155), (398, 48215), (402, 48227), (413, 48293), (454, 48416), (461, 48440), (468, 48464), (500, 48668), (506, 48701), (513, 48716), (530, 48755), (531, 48758), (534, 48767), (583, 48836), (622, 48968), (649, 49091), (650, 49094), (658, 49121), (665, 49151), (667, 49157), (668, 49160), (673, 49178), (677, 49190), (709, 49325), (718, 49352), (720, 49355),

Gene: Mopey_54 Start: 39729, Stop: 41672, Start Num: 54

Candidate Starts for Mopey_54:

(Start: 54 @39729 has 63 MA's), (69, 39756), (94, 39828), (114, 39882), (136, 39942), (141, 39960), (145, 39969), (176, 40020), (196, 40062), (214, 40098), (235, 40185), (272, 40278), (277, 40293), (286, 40314), (328, 40416), (340, 40449), (347, 40473), (370, 40533), (393, 40620), (409, 40695), (445, 40785), (461, 40836), (462, 40839), (495, 40929), (500, 40947), (506, 40980), (530, 41034), (534, 41046), (542, 41064), (583, 41127), (604, 41211), (642, 41328), (649, 41376), (666, 41439), (684, 41523),

Gene: MortySmith_38 Start: 24974, Stop: 26881, Start Num: 60

Candidate Starts for MortySmith_38:

(18, 24800), (Start: 60 @24974 has 35 MA's), (85, 25037), (97, 25058), (115, 25112), (182, 25247), (202, 25289), (219, 25334), (276, 25508), (279, 25517), (318, 25607), (329, 25649), (331, 25664), (384, 25850), (423, 25985), (425, 25997), (444, 26030), (500, 26159), (542, 26276), (649, 26585), (650, 26588), (665, 26648), (685, 26738), (694, 26768), (704, 26810), (722, 26861),

Gene: MrBoss_30 Start: 22115, Stop: 23509, Start Num: 203

Candidate Starts for MrBoss_30:

(Start: 203 @22115 has 73 MA's), (220, 22172), (259, 22277), (292, 22364), (374, 22448), (377, 22451), (378, 22454), (402, 22544), (406, 22580), (408, 22589), (410, 22598), (423, 22655), (427, 22673), (440, 22706), (467, 22787), (474, 22814), (482, 22838), (500, 22880), (506, 22913), (513, 22928), (578, 23027), (615, 23123), (621, 23141), (626, 23153), (649, 23243), (651, 23249), (654, 23258), (656, 23264), (663, 23300), (684, 23387), (698, 23438), (700, 23444), (709, 23477), (717, 23501),

Gene: MrMiyagi_73 Start: 45205, Stop: 47052, Start Num: 90

Candidate Starts for MrMiyagi_73:

(Start: 90 @45205 has 4 MA's), (100, 45223), (Start: 113 @45259 has 3 MA's), (130, 45310), (189, 45418), (202, 45451), (224, 45511), (232, 45553), (252, 45592), (284, 45688), (289, 45700), (302, 45727), (308, 45742), (310, 45751), (325, 45790), (327, 45805), (354, 45892), (358, 45904), (385, 46003), (388, 46009), (398, 46033), (409, 46093), (437, 46171), (449, 46198), (458, 46228), (461, 46240), (468, 46264), (500, 46342), (506, 46375), (513, 46390), (524, 46414), (525, 46417), (534,

46441), (649, 46765), (652, 46774), (659, 46801), (665, 46825), (678, 46870), (684, 46912), (697, 46960), (702, 46978), (723, 47035),

Gene: MrWormie_57 Start: 51762, Stop: 50350, Start Num: 215

Candidate Starts for MrWormie_57:

(69, 52110), (112, 51981), (Start: 143 @51891 has 3 MA's), (Start: 215 @51762 has 28 MA's), (227, 51717), (254, 51627), (255, 51624), (257, 51618), (263, 51597), (292, 51534), (371, 51426), (377, 51408), (402, 51321), (403, 51306), (411, 51264), (431, 51183), (447, 51135), (459, 51093), (465, 51075), (466, 51072), (472, 51045), (491, 50994), (503, 50958), (524, 50907), (585, 50823), (591, 50802), (657, 50646), (658, 50640), (660, 50628), (690, 50502), (727, 50388),

Gene: Msay19_64 Start: 54046, Stop: 52514, Start Num: 162

Candidate Starts for Msay19_64:

(69, 54301), (81, 54250), (121, 54145), (131, 54115), (Start: 143 @54082 has 3 MA's), (149, 54073), (Start: 162 @54046 has 28 MA's), (227, 53878), (235, 53836), (242, 53818), (254, 53788), (258, 53776), (262, 53764), (263, 53758), (269, 53737), (377, 53569), (402, 53482), (403, 53467), (405, 53455), (411, 53425), (422, 53374), (447, 53296), (456, 53272), (459, 53254), (465, 53236), (466, 53233), (468, 53224), (472, 53206), (487, 53164), (503, 53119), (510, 53101), (585, 52984), (589, 52969), (595, 52948), (641, 52867), (643, 52864), (657, 52807), (658, 52801), (660, 52789), (680, 52714), (687, 52675), (690, 52663), (691, 52660), (718, 52567), (727, 52552),

Gene: NadineRae_71 Start: 52357, Stop: 50276, Start Num: 35

Candidate Starts for NadineRae_71:

(Start: 35 @52357 has 34 MA's), (115, 52126), (235, 51838), (255, 51805), (262, 51784), (277, 51730), (279, 51724), (281, 51721), (318, 51631), (320, 51628), (342, 51568), (388, 51412), (427, 51265), (453, 51184), (461, 51157), (468, 51133), (500, 51031), (515, 50977), (522, 50962), (556, 50881), (583, 50842), (599, 50779), (604, 50740), (607, 50734), (617, 50704), (649, 50587), (666, 50524), (681, 50461), (684, 50443), (707, 50359),

Gene: Nancia_25 Start: 20580, Stop: 21974, Start Num: 203

Candidate Starts for Nancia_25:

(Start: 203 @20580 has 73 MA's), (220, 20637), (259, 20742), (260, 20745), (292, 20829), (350, 20862), (374, 20913), (378, 20919), (399, 21000), (400, 21003), (402, 21009), (406, 21045), (410, 21063), (411, 21066), (417, 21099), (423, 21120), (467, 21252), (474, 21279), (490, 21318), (499, 21339), (500, 21345), (506, 21378), (513, 21393), (516, 21402), (535, 21447), (552, 21483), (591, 21525), (615, 21588), (621, 21606), (649, 21708), (650, 21711), (656, 21729), (657, 21732), (662, 21756), (663, 21765), (684, 21852), (709, 21942), (717, 21966),

Gene: NarutoRun_40 Start: 25911, Stop: 27818, Start Num: 60

Candidate Starts for NarutoRun_40:

(Start: 60 @25911 has 35 MA's), (85, 25974), (97, 25995), (115, 26049), (202, 26226), (219, 26271), (276, 26445), (279, 26454), (318, 26544), (331, 26601), (384, 26787), (423, 26922), (425, 26934), (444, 26967), (500, 27096), (542, 27213), (592, 27288), (649, 27522), (650, 27525), (665, 27585), (685, 27675), (694, 27705), (704, 27747), (722, 27798),

Gene: NatB6_72 Start: 55674, Stop: 53746, Start Num: 79

Candidate Starts for NatB6_72:

(2, 56310), (5, 56109), (8, 56016), (9, 56004), (12, 55986), (Start: 35 @55812 has 34 MA's), (Start: 79 @55674 has 2 MA's), (88, 55650), (178, 55446), (201, 55401), (235, 55293), (279, 55179), (281, 55176), (318, 55086), (320, 55083), (342, 55023), (383, 54885), (388, 54867), (398, 54843), (427, 54720), (461, 54615), (500, 54489), (515, 54435), (525, 54414), (583, 54300), (604, 54204), (607, 54198), (617, 54168), (634, 54111), (649, 54051), (666, 53988), (684, 53907),

Gene: Neoevie_57 Start: 52863, Stop: 51451, Start Num: 215

Candidate Starts for Neoevie_57:

(69, 53211), (112, 53082), (142, 52995), (Start: 143 @52992 has 3 MA's), (Start: 215 @52863 has 28 MA's), (227, 52818), (254, 52728), (255, 52725), (257, 52719), (263, 52698), (292, 52635), (371, 52527), (377, 52509), (402, 52422), (403, 52407), (411, 52365), (431, 52284), (447, 52236), (459, 52194), (465, 52176), (466, 52173), (472, 52146), (491, 52095), (503, 52059), (524, 52008), (585, 51924), (591, 51903), (657, 51747), (658, 51741), (660, 51729), (690, 51603), (727, 51489),

Gene: Neptune_40 Start: 25911, Stop: 27818, Start Num: 60

Candidate Starts for Neptune_40:

(Start: 60 @25911 has 35 MA's), (85, 25974), (97, 25995), (115, 26049), (202, 26226), (219, 26271), (276, 26445), (279, 26454), (318, 26544), (384, 26787), (423, 26922), (425, 26934), (444, 26967), (500, 27096), (542, 27213), (592, 27288), (649, 27522), (650, 27525), (665, 27585), (685, 27675), (694, 27705), (704, 27747), (722, 27798),

Gene: Neuville_38 Start: 26376, Stop: 24544, Start Num: 63

Candidate Starts for Neuville_38:

(Start: 63 @26376 has 10 MA's), (Start: 79 @26319 has 2 MA's), (175, 26118), (227, 25983), (273, 25848), (281, 25821), (340, 25764), (344, 25749), (361, 25695), (376, 25599), (378, 25593), (380, 25578), (391, 25533), (403, 25485), (406, 25464), (410, 25446), (425, 25395), (460, 25302), (463, 25290), (500, 25227), (529, 25155), (558, 25095), (569, 25074), (592, 25008), (597, 24990), (606, 24972), (607, 24969), (620, 24933), (649, 24825), (652, 24816), (668, 24756), (680, 24708),

Gene: Newt_58 Start: 53091, Stop: 51679, Start Num: 215

Candidate Starts for Newt_58:

(69, 53439), (112, 53310), (142, 53223), (Start: 143 @53220 has 3 MA's), (Start: 215 @53091 has 28 MA's), (227, 53046), (254, 52956), (255, 52953), (257, 52947), (263, 52926), (292, 52863), (371, 52755), (377, 52737), (402, 52650), (403, 52635), (411, 52593), (431, 52512), (447, 52464), (459, 52422), (465, 52404), (466, 52401), (472, 52374), (491, 52323), (503, 52287), (524, 52236), (585, 52152), (591, 52131), (657, 51975), (658, 51969), (660, 51957), (690, 51831), (727, 51717),

Gene: Niagara_57 Start: 53309, Stop: 51606, Start Num: 86

Candidate Starts for Niagara_57:

(Start: 86 @53309 has 9 MA's), (Start: 92 @53297 has 2 MA's), (168, 53114), (Start: 215 @53024 has 28 MA's), (217, 53015), (227, 52979), (229, 52955), (232, 52946), (235, 52937), (254, 52889), (262, 52865), (292, 52793), (342, 52772), (352, 52736), (353, 52733), (395, 52604), (396, 52601), (403, 52565), (404, 52562), (406, 52544), (408, 52535), (411, 52523), (421, 52475), (431, 52442), (447, 52394), (456, 52370), (472, 52304), (503, 52205), (547, 52106), (552, 52097), (583, 52073), (585, 52070), (634, 51977), (641, 51953), (643, 51950), (657, 51893), (660, 51875), (687, 51758), (688, 51755), (691, 51743), (727, 51644), (737, 51623),

Gene: Nilo_68 Start: 47960, Stop: 49720, Start Num: 191

Candidate Starts for Nilo_68:

(Start: 191 @47960 has 9 MA's), (218, 48029), (251, 48125), (256, 48134), (280, 48215), (300, 48260), (368, 48461), (382, 48509), (398, 48569), (402, 48581), (413, 48647), (454, 48770), (461, 48794), (468, 48818), (500, 49022), (506, 49055), (513, 49070), (530, 49109), (531, 49112), (534, 49121), (583, 49190), (622, 49322), (649, 49445), (650, 49448), (658, 49475), (665, 49505), (667, 49511), (668, 49514), (673, 49532), (677, 49544), (709, 49679), (720, 49709),

Gene: Nimi13_57 Start: 52610, Stop: 51198, Start Num: 215

Candidate Starts for Nimi13_57:

(69, 52958), (112, 52829), (Start: 143 @52739 has 3 MA's), (Start: 215 @52610 has 28 MA's), (227, 52565), (254, 52475), (255, 52472), (257, 52466), (263, 52445), (292, 52382), (371, 52274), (377,

52256), (402, 52169), (403, 52154), (411, 52112), (431, 52031), (447, 51983), (459, 51941), (465, 51923), (466, 51920), (472, 51893), (491, 51842), (503, 51806), (524, 51755), (585, 51671), (591, 51650), (657, 51494), (658, 51488), (660, 51476), (690, 51350), (727, 51236),

Gene: NorManre_63 Start: 40960, Stop: 42873, Start Num: 54

Candidate Starts for NorManre_63:

(19, 40834), (21, 40843), (22, 40855), (33, 40888), (Start: 53 @40957 has 13 MA's), (Start: 54 @40960 has 63 MA's), (Start: 66 @40972 has 2 MA's), (78, 41020), (117, 41122), (155, 41212), (173, 41239), (178, 41248), (214, 41320), (255, 41440), (274, 41503), (314, 41593), (322, 41620), (368, 41749), (376, 41773), (383, 41815), (400, 41863), (403, 41884), (406, 41905), (423, 41962), (427, 41980), (445, 42016), (458, 42058), (476, 42118), (506, 42214), (508, 42217), (598, 42394), (613, 42445), (642, 42535), (649, 42571), (651, 42577), (665, 42631), (677, 42670), (699, 42772), (703, 42787), (709, 42808), (735, 42865),

Gene: NosilaM_73 Start: 56110, Stop: 54188, Start Num: 90

Candidate Starts for NosilaM_73:

(Start: 35 @56275 has 34 MA's), (Start: 90 @56110 has 4 MA's), (Start: 92 @56107 has 2 MA's), (201, 55852), (235, 55744), (262, 55690), (281, 55627), (318, 55537), (320, 55534), (326, 55510), (342, 55474), (383, 55336), (388, 55318), (393, 55309), (398, 55294), (427, 55171), (453, 55087), (461, 55060), (468, 55036), (500, 54937), (515, 54883), (538, 54829), (556, 54787), (583, 54748), (601, 54679), (604, 54646), (617, 54610), (633, 54565), (634, 54553), (649, 54493), (666, 54430), (707, 54265),

Gene: Nova_52 Start: 40183, Stop: 42126, Start Num: 54

Candidate Starts for Nova_52:

(37, 40120), (Start: 54 @40183 has 63 MA's), (69, 40210), (94, 40282), (114, 40336), (136, 40396), (145, 40423), (176, 40474), (178, 40477), (196, 40516), (214, 40552), (235, 40639), (272, 40732), (277, 40747), (286, 40768), (328, 40870), (340, 40903), (347, 40927), (370, 40987), (393, 41074), (409, 41149), (445, 41239), (461, 41290), (462, 41293), (495, 41383), (500, 41401), (506, 41434), (534, 41500), (542, 41518), (583, 41581), (604, 41665), (642, 41782), (649, 41830), (666, 41893), (684, 41977),

Gene: NovaSharks_62 Start: 39405, Stop: 41321, Start Num: 53

Candidate Starts for NovaSharks_62:

(Start: 53 @39405 has 13 MA's), (Start: 54 @39408 has 63 MA's), (Start: 66 @39420 has 2 MA's), (78, 39468), (93, 39501), (155, 39660), (173, 39687), (178, 39696), (214, 39768), (255, 39888), (274, 39951), (314, 40041), (322, 40068), (368, 40197), (376, 40221), (383, 40263), (385, 40275), (393, 40290), (400, 40311), (403, 40332), (406, 40353), (423, 40410), (427, 40428), (445, 40464), (458, 40506), (476, 40566), (506, 40662), (508, 40665), (598, 40842), (613, 40893), (642, 40983), (649, 41019), (651, 41025), (665, 41079), (677, 41118), (699, 41220), (703, 41235), (709, 41256),

Gene: NovumRegina_72 Start: 56100, Stop: 54034, Start Num: 35

Candidate Starts for NovumRegina_72:

(8, 56304), (9, 56292), (12, 56274), (Start: 35 @56100 has 34 MA's), (Start: 79 @55962 has 2 MA's), (88, 55938), (178, 55734), (201, 55689), (235, 55581), (279, 55467), (281, 55464), (318, 55374), (320, 55371), (342, 55311), (383, 55173), (388, 55155), (398, 55131), (427, 55008), (461, 54903), (500, 54777), (515, 54723), (580, 54597), (583, 54588), (591, 54564), (604, 54492), (607, 54486), (617, 54456), (634, 54399), (649, 54339), (666, 54276), (684, 54195),

Gene: Nubia_29 Start: 22080, Stop: 23471, Start Num: 203

Candidate Starts for Nubia_29:

(Start: 203 @22080 has 73 MA's), (228, 22167), (259, 22239), (260, 22242), (285, 22308), (292, 22326), (336, 22332), (350, 22359), (378, 22416), (386, 22467), (402, 22506), (406, 22542), (410,

22560), (417, 22596), (423, 22617), (427, 22635), (440, 22668), (457, 22707), (467, 22749), (474, 22776), (482, 22800), (499, 22836), (500, 22842), (506, 22875), (513, 22890), (516, 22899), (535, 22944), (550, 22977), (552, 22980), (615, 23085), (620, 23097), (626, 23115), (649, 23205), (656, 23226), (657, 23229), (662, 23253), (663, 23262), (684, 23349), (698, 23400), (709, 23439), (717, 23463),

Gene: OMalley_26 Start: 21745, Stop: 23139, Start Num: 203

Candidate Starts for OMalley_26:

(Start: 203 @21745 has 73 MA's), (220, 21802), (252, 21889), (259, 21907), (260, 21910), (292, 21994), (350, 22027), (374, 22078), (378, 22084), (391, 22144), (402, 22174), (406, 22210), (410, 22228), (423, 22285), (427, 22303), (430, 22309), (440, 22336), (467, 22417), (474, 22444), (482, 22468), (490, 22483), (500, 22510), (506, 22543), (513, 22558), (591, 22690), (606, 22726), (615, 22753), (620, 22765), (626, 22783), (649, 22873), (651, 22879), (656, 22894), (657, 22897), (663, 22930), (680, 22990), (684, 23017), (700, 23074), (709, 23107), (717, 23131),

Gene: Oaker_60 Start: 46344, Stop: 48401, Start Num: 54

Candidate Starts for Oaker_60:

(Start: 54 @46344 has 63 MA's), (76, 46404), (77, 46407), (Start: 113 @46500 has 3 MA's), (116, 46512), (124, 46533), (182, 46656), (184, 46659), (189, 46668), (202, 46701), (208, 46722), (217, 46770), (228, 46812), (255, 46875), (262, 46896), (263, 46902), (279, 46956), (350, 47142), (354, 47154), (361, 47172), (368, 47187), (370, 47193), (461, 47511), (462, 47514), (476, 47559), (497, 47610), (500, 47622), (530, 47712), (534, 47724), (548, 47757), (561, 47781), (577, 47790), (607, 47880), (618, 47913), (648, 48024), (649, 48027), (650, 48030), (651, 48033), (660, 48069), (665, 48087), (681, 48153), (684, 48171), (738, 48348),

Gene: OhDear_40 Start: 25909, Stop: 27816, Start Num: 60

Candidate Starts for OhDear_40:

(Start: 60 @25909 has 35 MA's), (85, 25972), (97, 25993), (115, 26047), (202, 26224), (219, 26269), (276, 26443), (279, 26452), (318, 26542), (331, 26599), (384, 26785), (423, 26920), (425, 26932), (444, 26965), (500, 27094), (542, 27211), (592, 27286), (649, 27520), (650, 27523), (665, 27583), (685, 27673), (694, 27703), (704, 27745), (722, 27796),

Gene: Olympi_35 Start: 23358, Stop: 24785, Start Num: 207

Candidate Starts for Olympi_35:

(Start: 207 @23358 has 19 MA's), (281, 23574), (361, 23676), (377, 23715), (391, 23778), (403, 23823), (406, 23844), (430, 23943), (480, 24111), (500, 24159), (502, 24180), (513, 24207), (524, 24234), (535, 24264), (538, 24270), (554, 24306), (608, 24384), (642, 24486), (643, 24489), (663, 24576), (668, 24588), (679, 24627), (684, 24663), (690, 24681), (706, 24744),

Gene: Onyinye_65 Start: 45953, Stop: 47881, Start Num: 54

Candidate Starts for Onyinye_65:

(Start: 54 @45953 has 63 MA's), (67, 45974), (74, 46004), (Start: 113 @46103 has 3 MA's), (136, 46166), (173, 46238), (178, 46247), (202, 46295), (277, 46511), (286, 46532), (295, 46553), (298, 46556), (307, 46568), (317, 46595), (355, 46718), (370, 46754), (385, 46826), (390, 46835), (402, 46868), (411, 46925), (414, 46937), (445, 47006), (447, 47015), (454, 47033), (461, 47057), (497, 47153), (500, 47165), (506, 47198), (525, 47240), (552, 47303), (599, 47408), (659, 47624), (665, 47648), (666, 47651), (678, 47693), (683, 47723), (689, 47747), (731, 47864),

Gene: Orchid_57 Start: 50422, Stop: 48932, Start Num: 185

Candidate Starts for Orchid_57:

(Start: 185 @50422 has 5 MA's), (217, 50329), (220, 50320), (224, 50308), (227, 50293), (229, 50275), (255, 50218), (277, 50146), (278, 50143), (351, 50050), (362, 50017), (375, 49984), (376, 49981), (380, 49960), (402, 49891), (406, 49855), (425, 49768), (447, 49705), (449, 49702), (458, 49672),

(477, 49600), (479, 49591), (538, 49468), (541, 49462), (632, 49330), (643, 49288), (653, 49243), (660, 49213), (732, 48961),

Gene: OtterstedtS21_60 Start: 40582, Stop: 42495, Start Num: 54

Candidate Starts for OtterstedtS21_60:

(Start: 53 @40579 has 13 MA's), (Start: 54 @40582 has 63 MA's), (Start: 66 @40594 has 2 MA's), (78, 40642), (93, 40675), (117, 40744), (155, 40834), (173, 40861), (178, 40870), (214, 40942), (235, 41029), (255, 41062), (274, 41125), (314, 41215), (368, 41371), (376, 41395), (383, 41437), (400, 41485), (403, 41506), (406, 41527), (423, 41584), (445, 41638), (458, 41680), (476, 41740), (506, 41836), (508, 41839), (598, 42016), (613, 42067), (642, 42157), (649, 42193), (651, 42199), (665, 42253), (677, 42292), (699, 42394), (703, 42409), (709, 42430),

Gene: Outis_73 Start: 56760, Stop: 54685, Start Num: 35

Candidate Starts for Outis_73:

(Start: 35 @56760 has 34 MA's), (72, 56640), (Start: 90 @56595 has 4 MA's), (Start: 92 @56592 has 2 MA's), (201, 56349), (224, 56292), (235, 56241), (262, 56187), (281, 56124), (318, 56034), (320, 56031), (326, 56007), (342, 55971), (388, 55815), (398, 55791), (427, 55668), (461, 55557), (468, 55533), (500, 55434), (515, 55380), (538, 55326), (556, 55284), (583, 55245), (601, 55176), (604, 55143), (617, 55107), (633, 55062), (634, 55050), (649, 54990), (666, 54927), (684, 54846), (707, 54762),

Gene: OverHedge_40 Start: 25901, Stop: 27808, Start Num: 60

Candidate Starts for OverHedge_40:

(Start: 60 @25901 has 35 MA's), (85, 25964), (97, 25985), (115, 26039), (202, 26216), (219, 26261), (276, 26435), (279, 26444), (318, 26534), (331, 26591), (384, 26777), (423, 26912), (425, 26924), (444, 26957), (500, 27086), (542, 27203), (592, 27278), (649, 27512), (650, 27515), (665, 27575), (685, 27665), (694, 27695), (704, 27737), (722, 27788),

Gene: Oxyntfrius_29 Start: 22093, Stop: 23484, Start Num: 203

Candidate Starts for Oxyntfrius_29:

(Start: 203 @22093 has 73 MA's), (228, 22180), (259, 22252), (260, 22255), (285, 22321), (292, 22339), (336, 22345), (350, 22372), (378, 22429), (386, 22480), (402, 22519), (406, 22555), (410, 22573), (417, 22609), (423, 22630), (427, 22648), (440, 22681), (457, 22720), (467, 22762), (474, 22789), (482, 22813), (499, 22849), (500, 22855), (506, 22888), (513, 22903), (516, 22912), (535, 22957), (550, 22990), (552, 22993), (615, 23098), (620, 23110), (626, 23128), (649, 23218), (656, 23239), (657, 23242), (662, 23266), (663, 23275), (684, 23362), (698, 23413), (709, 23452), (717, 23476),

Gene: P1201_75 Start: 57035, Stop: 55065, Start Num: 65

Candidate Starts for P1201_75:

(Start: 65 @57035 has 8 MA's), (114, 56897), (122, 56873), (187, 56741), (229, 56618), (235, 56600), (236, 56597), (318, 56390), (370, 56249), (444, 55979), (451, 55955), (458, 55934), (473, 55886), (500, 55790), (506, 55757), (531, 55700), (533, 55694), (534, 55691), (607, 55502), (659, 55319), (666, 55292), (681, 55229), (684, 55211),

Gene: PBI1_50 Start: 39660, Stop: 41603, Start Num: 54

Candidate Starts for PBI1_50:

(Start: 54 @39660 has 63 MA's), (69, 39687), (94, 39759), (114, 39813), (136, 39873), (141, 39891), (145, 39900), (176, 39951), (196, 39993), (214, 40029), (235, 40116), (272, 40209), (277, 40224), (286, 40245), (328, 40347), (340, 40380), (347, 40404), (370, 40464), (393, 40551), (409, 40626), (445, 40716), (461, 40767), (462, 40770), (495, 40860), (500, 40878), (506, 40911), (530, 40965), (534, 40977), (542, 40995), (583, 41058), (604, 41142), (642, 41259), (649, 41307), (666, 41370), (684, 41454),

Gene: PHTown_70 Start: 50156, Stop: 48270, Start Num: 54

Candidate Starts for PHTown_70:

(Start: 39 @50216 has 1 MA's), (Start: 54 @50156 has 63 MA's), (64, 50141), (85, 50078), (89, 50069), (97, 50057), (132, 49964), (159, 49901), (173, 49883), (202, 49826), (214, 49802), (264, 49643), (276, 49604), (279, 49595), (323, 49487), (358, 49379), (383, 49274), (408, 49175), (425, 49115), (460, 49028), (461, 49025), (506, 48920), (511, 48911), (515, 48899), (580, 48800), (594, 48761), (613, 48683), (618, 48671), (629, 48644), (650, 48554), (655, 48539), (668, 48485), (681, 48428), (715, 48302),

Gene: PLOT_53 Start: 39756, Stop: 41699, Start Num: 54

Candidate Starts for PLOT_53:

(37, 39693), (Start: 54 @39756 has 63 MA's), (69, 39783), (94, 39855), (114, 39909), (136, 39969), (145, 39996), (176, 40047), (196, 40089), (214, 40125), (235, 40212), (272, 40305), (277, 40320), (286, 40341), (328, 40443), (340, 40476), (347, 40500), (370, 40560), (393, 40647), (409, 40722), (445, 40812), (461, 40863), (462, 40866), (495, 40956), (500, 40974), (506, 41007), (534, 41073), (542, 41091), (583, 41154), (604, 41238), (642, 41355), (649, 41403), (666, 41466), (684, 41550),

Gene: Panchaali_92 Start: 77571, Stop: 79412, Start Num: 59

Candidate Starts for Panchaali_92:

(Start: 59 @77571 has 12 MA's), (158, 77829), (167, 77844), (227, 77949), (235, 77985), (250, 78015), (273, 78084), (275, 78093), (278, 78105), (292, 78138), (365, 78264), (411, 78477), (424, 78522), (450, 78582), (463, 78627), (499, 78684), (500, 78690), (506, 78723), (512, 78735), (516, 78747), (569, 78864), (570, 78867), (581, 78891), (594, 78933), (606, 78960), (617, 78993), (626, 79017), (643, 79077), (666, 79170), (673, 79194), (713, 79362), (714, 79365),

Gene: Papyrus_66 Start: 47571, Stop: 49331, Start Num: 191

Candidate Starts for Papyrus_66:

(Start: 191 @47571 has 9 MA's), (218, 47640), (251, 47736), (256, 47745), (280, 47826), (300, 47871), (368, 48072), (382, 48120), (398, 48180), (402, 48192), (413, 48258), (454, 48381), (461, 48405), (468, 48429), (500, 48633), (506, 48666), (513, 48681), (530, 48720), (531, 48723), (534, 48732), (583, 48801), (622, 48933), (649, 49056), (650, 49059), (658, 49086), (665, 49116), (667, 49122), (668, 49125), (673, 49143), (677, 49155), (709, 49290), (718, 49317), (720, 49320),

Gene: Park1214_131 Start: 68214, Stop: 69704, Start Num: 226

Candidate Starts for Park1214_131:

(Start: 205 @68133 has 5 MA's), (226, 68214), (227, 68220), (230, 68241), (232, 68247), (256, 68298), (258, 68304), (283, 68367), (354, 68451), (378, 68517), (379, 68526), (402, 68604), (409, 68655), (435, 68757), (438, 68766), (443, 68781), (458, 68832), (459, 68841), (467, 68868), (480, 68916), (488, 68931), (663, 69417), (668, 69429), (693, 69549), (694, 69561), (712, 69630), (714, 69636), (737, 69684),

Gene: PartyCup_29 Start: 22162, Stop: 23556, Start Num: 203

Candidate Starts for PartyCup_29:

(Start: 203 @22162 has 73 MA's), (220, 22219), (259, 22324), (292, 22411), (374, 22495), (377, 22498), (378, 22501), (402, 22591), (406, 22627), (408, 22636), (410, 22645), (423, 22702), (427, 22720), (440, 22753), (446, 22765), (467, 22834), (474, 22861), (482, 22885), (499, 22921), (500, 22927), (506, 22960), (513, 22975), (516, 22984), (578, 23074), (606, 23143), (615, 23170), (621, 23188), (626, 23200), (649, 23290), (651, 23296), (654, 23305), (656, 23311), (663, 23347), (684, 23434), (700, 23491), (709, 23524), (717, 23548),

Gene: Parvaparticeps_24 Start: 17958, Stop: 16552, Start Num: 204

Candidate Starts for Parvaparticeps_24:

(204, 17958), (254, 17817), (259, 17802), (291, 17718), (360, 17655), (374, 17622), (391, 17556), (399, 17535), (402, 17526), (403, 17511), (408, 17481), (415, 17451), (430, 17397), (480, 17235), (506, 17154), (524, 17109), (535, 17079), (536, 17076), (554, 17037), (615, 16938), (621, 16920), (626, 16908), (632, 16890), (662, 16770), (663, 16761), (679, 16710), (680, 16701), (681, 16692), (684, 16674), (690, 16656), (706, 16593), (709, 16584), (717, 16560),

Gene: ParvusTarda_59 Start: 39954, Stop: 41870, Start Num: 53

Candidate Starts for ParvusTarda_59:

(19, 39831), (21, 39840), (22, 39852), (33, 39885), (Start: 53 @39954 has 13 MA's), (Start: 54 @39957 has 63 MA's), (Start: 66 @39969 has 2 MA's), (78, 40017), (93, 40050), (117, 40119), (155, 40209), (173, 40236), (178, 40245), (214, 40317), (235, 40404), (255, 40437), (274, 40500), (314, 40590), (368, 40746), (376, 40770), (383, 40812), (400, 40860), (403, 40881), (406, 40902), (423, 40959), (445, 41013), (458, 41055), (476, 41115), (506, 41211), (508, 41214), (598, 41391), (613, 41442), (642, 41532), (649, 41568), (651, 41574), (665, 41628), (677, 41667), (699, 41769), (703, 41784), (709, 41805),

Gene: Patbob_100 Start: 80820, Stop: 82658, Start Num: 59

Candidate Starts for Patbob_100:

(Start: 59 @80820 has 12 MA's), (120, 80979), (167, 81075), (Start: 215 @81135 has 28 MA's), (224, 81165), (254, 81255), (263, 81285), (278, 81336), (338, 81396), (443, 81792), (450, 81813), (463, 81858), (500, 81921), (506, 81954), (512, 81966), (516, 81978), (534, 82023), (552, 82062), (579, 82119), (581, 82125), (592, 82158), (617, 82227), (643, 82311), (673, 82428), (716, 82602), (736, 82644),

Gene: Patience_76 Start: 49716, Stop: 51749, Start Num: 58

Candidate Starts for Patience_76:

(Start: 58 @49716 has 8 MA's), (69, 49740), (89, 49803), (115, 49869), (133, 49920), (134, 49923), (189, 50031), (202, 50064), (217, 50103), (Start: 225 @50127 has 1 MA's), (243, 50190), (255, 50208), (256, 50211), (262, 50229), (263, 50235), (286, 50304), (296, 50331), (306, 50343), (321, 50376), (350, 50478), (385, 50601), (398, 50631), (423, 50736), (427, 50754), (460, 50844), (461, 50847), (485, 50949), (493, 50988), (497, 51015), (499, 51021), (500, 51027), (513, 51075), (519, 51093), (530, 51120), (534, 51132), (538, 51141), (648, 51429), (681, 51558), (689, 51591), (694, 51609), (708, 51663), (722, 51702),

Gene: Patio_74 Start: 56655, Stop: 54598, Start Num: 35

Candidate Starts for Patio_74:

(6, 56943), (10, 56835), (Start: 35 @56655 has 34 MA's), (189, 56280), (228, 56172), (236, 56139), (262, 56088), (279, 56028), (281, 56025), (311, 55953), (318, 55935), (342, 55872), (343, 55866), (352, 55839), (377, 55773), (383, 55734), (388, 55716), (398, 55692), (409, 55632), (427, 55569), (441, 55536), (461, 55473), (500, 55350), (522, 55281), (530, 55263), (583, 55158), (586, 55149), (601, 55089), (604, 55056), (607, 55050), (617, 55020), (634, 54963), (649, 54903), (658, 54873), (666, 54840), (707, 54675),

Gene: Patos_63 Start: 40959, Stop: 42872, Start Num: 54

Candidate Starts for Patos_63:

(19, 40833), (21, 40842), (22, 40854), (33, 40887), (Start: 53 @40956 has 13 MA's), (Start: 54 @40959 has 63 MA's), (Start: 66 @40971 has 2 MA's), (78, 41019), (117, 41121), (155, 41211), (173, 41238), (178, 41247), (214, 41319), (255, 41439), (274, 41502), (314, 41592), (322, 41619), (368, 41748), (376, 41772), (383, 41814), (400, 41862), (403, 41883), (406, 41904), (423, 41961), (427, 41979), (445, 42015), (458, 42057), (476, 42117), (506, 42213), (508, 42216), (598, 42393), (613, 42444), (642, 42534), (649, 42570), (651, 42576), (665, 42630), (677, 42669), (699, 42771), (703, 42786), (709, 42807), (735, 42864),

Gene: PatrickStar_58 Start: 50421, Stop: 48931, Start Num: 185

Candidate Starts for PatrickStar_58:

(Start: 185 @50421 has 5 MA's), (217, 50328), (220, 50319), (224, 50307), (227, 50292), (229, 50274), (255, 50217), (277, 50145), (278, 50142), (351, 50049), (362, 50016), (375, 49983), (376, 49980), (380, 49959), (402, 49890), (406, 49854), (425, 49767), (447, 49704), (449, 49701), (458, 49671), (477, 49599), (479, 49590), (538, 49467), (541, 49461), (632, 49329), (643, 49287), (653, 49242), (660, 49212), (732, 48960),

Gene: PauloDiaboli_114 Start: 78533, Stop: 76683, Start Num: 63

Candidate Starts for PauloDiaboli_114:

(41, 78602), (42, 78596), (Start: 63 @78533 has 10 MA's), (75, 78488), (Start: 79 @78476 has 2 MA's), (134, 78350), (163, 78287), (Start: 215 @78212 has 28 MA's), (249, 78104), (256, 78086), (276, 78017), (287, 77990), (334, 77930), (376, 77765), (409, 77621), (440, 77534), (450, 77507), (461, 77471), (463, 77462), (499, 77405), (500, 77399), (512, 77354), (516, 77342), (526, 77321), (535, 77297), (552, 77261), (573, 77216), (607, 77132), (608, 77129), (610, 77123), (632, 77060), (658, 76958), (680, 76871), (688, 76829), (701, 76778),

Gene: Pemberton_73 Start: 52697, Stop: 50847, Start Num: 115

Candidate Starts for Pemberton_73:

(9, 53120), (12, 53102), (17, 53027), (Start: 35 @52928 has 34 MA's), (115, 52697), (235, 52409), (255, 52376), (262, 52355), (277, 52301), (279, 52295), (281, 52292), (318, 52202), (320, 52199), (342, 52139), (388, 51983), (427, 51836), (461, 51728), (468, 51704), (500, 51602), (515, 51548), (522, 51533), (556, 51452), (583, 51413), (599, 51350), (604, 51311), (607, 51305), (617, 51275), (649, 51158), (666, 51095), (681, 51032), (684, 51014), (707, 50930),

Gene: Penelope2018_53 Start: 39774, Stop: 41717, Start Num: 54

Candidate Starts for Penelope2018_53:

(31, 39705), (Start: 54 @39774 has 63 MA's), (69, 39801), (94, 39873), (114, 39927), (136, 39987), (141, 40005), (145, 40014), (176, 40065), (196, 40107), (214, 40143), (235, 40230), (272, 40323), (277, 40338), (286, 40359), (328, 40461), (340, 40494), (347, 40518), (370, 40578), (393, 40665), (409, 40740), (445, 40830), (461, 40881), (462, 40884), (495, 40974), (500, 40992), (506, 41025), (530, 41079), (534, 41091), (542, 41109), (583, 41172), (604, 41256), (642, 41373), (649, 41421), (666, 41484), (684, 41568),

Gene: PermaG_34 Start: 23404, Stop: 24831, Start Num: 207

Candidate Starts for PermaG_34:

(186, 23362), (Start: 207 @23404 has 19 MA's), (259, 23560), (374, 23758), (377, 23761), (378, 23764), (381, 23782), (403, 23869), (406, 23890), (430, 23989), (452, 24055), (480, 24157), (481, 24160), (500, 24205), (502, 24226), (513, 24253), (524, 24280), (525, 24283), (530, 24295), (535, 24310), (538, 24316), (554, 24352), (591, 24388), (594, 24400), (608, 24430), (634, 24514), (642, 24532), (643, 24535), (663, 24622), (668, 24634), (679, 24673), (684, 24709), (687, 24715), (706, 24790),

Gene: PeteyPab_71 Start: 52509, Stop: 50584, Start Num: 65

Candidate Starts for PeteyPab_71:

(32, 52602), (34, 52596), (Start: 65 @52509 has 8 MA's), (128, 52338), (150, 52284), (235, 52080), (297, 51924), (318, 51873), (320, 51870), (332, 51828), (369, 51741), (370, 51738), (385, 51666), (390, 51657), (499, 51306), (500, 51300), (506, 51267), (634, 50928), (651, 50862), (655, 50850), (659, 50832), (666, 50805), (681, 50742), (689, 50709), (708, 50637),

Gene: Phalaborwa_53 Start: 39879, Stop: 41825, Start Num: 49

Candidate Starts for Phalaborwa_53:

(49, 39879), (91, 39975), (94, 39981), (114, 40035), (136, 40095), (145, 40122), (176, 40173), (178, 40176), (196, 40215), (214, 40251), (235, 40338), (272, 40431), (277, 40446), (286, 40467), (328, 40569), (340, 40602), (347, 40626), (370, 40686), (393, 40773), (411, 40857), (461, 40989), (462, 40992), (469, 41016), (495, 41082), (500, 41100), (506, 41133), (530, 41187), (534, 41199), (542, 41217), (583, 41280), (604, 41364), (642, 41481), (649, 41529), (666, 41592), (684, 41676),

Gene: Pharpay_40 Start: 25956, Stop: 27863, Start Num: 60

Candidate Starts for Pharpay_40:

(Start: 60 @25956 has 35 MA's), (85, 26019), (97, 26040), (115, 26094), (202, 26271), (219, 26316), (276, 26490), (279, 26499), (318, 26589), (331, 26646), (384, 26832), (423, 26967), (425, 26979), (444, 27012), (500, 27141), (542, 27258), (592, 27333), (649, 27567), (650, 27570), (665, 27630), (685, 27720), (694, 27750), (704, 27792), (722, 27843),

Gene: Phendrix_173 Start: 92821, Stop: 90896, Start Num: 63

Candidate Starts for Phendrix_173:

(Start: 63 @92821 has 10 MA's), (72, 92779), (120, 92665), (155, 92590), (197, 92521), (217, 92452), (344, 92179), (349, 92161), (357, 92137), (365, 92098), (405, 91918), (427, 91834), (440, 91810), (460, 91750), (463, 91738), (473, 91711), (506, 91642), (508, 91639), (564, 91474), (576, 91423), (583, 91399), (604, 91333), (618, 91294), (622, 91282), (652, 91174), (660, 91141), (666, 91120), (676, 91087), (684, 91036), (690, 91018),

Gene: Philon9_57 Start: 53944, Stop: 52235, Start Num: 86

Candidate Starts for Philon9_57:

(Start: 86 @53944 has 9 MA's), (Start: 92 @53932 has 2 MA's), (Start: 135 @53812 has 1 MA's), (153, 53779), (168, 53749), (173, 53743), (217, 53635), (227, 53599), (229, 53575), (232, 53566), (235, 53557), (254, 53509), (255, 53506), (257, 53500), (258, 53497), (346, 53374), (353, 53353), (375, 53293), (396, 53221), (402, 53200), (403, 53185), (404, 53182), (405, 53173), (447, 53014), (462, 52963), (466, 52951), (467, 52945), (472, 52924), (489, 52879), (503, 52834), (521, 52792), (547, 52735), (582, 52705), (583, 52702), (585, 52699), (619, 52645), (657, 52522), (660, 52504), (687, 52387), (688, 52384), (691, 52372), (737, 52252),

Gene: Phomeo_71 Start: 56408, Stop: 54342, Start Num: 35

Candidate Starts for Phomeo_71:

(2, 56906), (5, 56705), (8, 56612), (9, 56600), (12, 56582), (Start: 35 @56408 has 34 MA's), (Start: 79 @56270 has 2 MA's), (88, 56246), (178, 56042), (201, 55997), (235, 55889), (279, 55775), (281, 55772), (318, 55682), (320, 55679), (342, 55619), (383, 55481), (388, 55463), (398, 55439), (427, 55316), (461, 55211), (500, 55085), (515, 55031), (580, 54905), (583, 54896), (591, 54872), (604, 54800), (607, 54794), (617, 54764), (634, 54707), (649, 54647), (666, 54584), (684, 54503),

Gene: Phrampa_94 Start: 82318, Stop: 84156, Start Num: 59

Candidate Starts for Phrampa_94:

(Start: 59 @82318 has 12 MA's), (120, 82477), (167, 82573), (Start: 215 @82633 has 28 MA's), (224, 82663), (254, 82753), (263, 82783), (338, 82894), (420, 83233), (450, 83311), (463, 83356), (500, 83419), (506, 83452), (512, 83464), (516, 83476), (523, 83491), (524, 83494), (534, 83521), (552, 83560), (579, 83617), (581, 83623), (592, 83656), (617, 83725), (643, 83809), (673, 83926), (716, 84100), (736, 84142),

Gene: Phreeze_60 Start: 45650, Stop: 47707, Start Num: 54

Candidate Starts for Phreeze_60:

(Start: 54 @45650 has 63 MA's), (76, 45710), (77, 45713), (Start: 113 @45806 has 3 MA's), (116, 45818), (124, 45839), (182, 45962), (184, 45965), (189, 45974), (202, 46007), (208, 46028), (217, 46076), (255, 46181), (262, 46202), (263, 46208), (279, 46262), (350, 46448), (354, 46460), (361, 46478), (368, 46493), (370, 46499), (461, 46817), (462, 46820), (476, 46865), (497, 46916), (500,

46928), (530, 47018), (534, 47030), (548, 47063), (561, 47087), (577, 47096), (607, 47186), (618, 47219), (648, 47330), (649, 47333), (650, 47336), (651, 47339), (665, 47393), (681, 47459), (684, 47477), (738, 47654),

Gene: PhunaPhoke_40 Start: 25929, Stop: 27836, Start Num: 60

Candidate Starts for PhunaPhoke_40:

(Start: 60 @25929 has 35 MA's), (85, 25992), (97, 26013), (115, 26067), (202, 26244), (219, 26289), (276, 26463), (279, 26472), (318, 26562), (331, 26619), (384, 26805), (423, 26940), (425, 26952), (444, 26985), (500, 27114), (542, 27231), (592, 27306), (649, 27540), (650, 27543), (665, 27603), (685, 27693), (694, 27723), (704, 27765), (722, 27816),

Gene: PierreThree_58 Start: 52668, Stop: 51259, Start Num: 215

Candidate Starts for PierreThree_58:

(69, 53046), (81, 52995), (103, 52944), (121, 52890), (131, 52860), (Start: 143 @52827 has 3 MA's), (149, 52818), (Start: 162 @52791 has 28 MA's), (Start: 215 @52668 has 28 MA's), (227, 52623), (235, 52581), (254, 52533), (255, 52530), (257, 52524), (258, 52521), (262, 52509), (263, 52503), (285, 52455), (286, 52452), (371, 52332), (377, 52314), (395, 52251), (402, 52227), (403, 52212), (422, 52119), (447, 52041), (465, 51981), (466, 51978), (468, 51969), (472, 51951), (487, 51909), (503, 51864), (510, 51846), (585, 51729), (589, 51714), (595, 51693), (641, 51612), (643, 51609), (657, 51552), (658, 51546), (660, 51534), (675, 51483), (679, 51468), (680, 51459), (687, 51420), (690, 51408), (718, 51312), (727, 51297),

Gene: PinkFriday_25 Start: 20614, Stop: 22011, Start Num: 203

Candidate Starts for PinkFriday_25:

(Start: 203 @20614 has 73 MA's), (220, 20674), (252, 20761), (259, 20779), (292, 20866), (336, 20872), (350, 20899), (374, 20950), (378, 20956), (391, 21016), (399, 21037), (402, 21046), (406, 21082), (410, 21100), (411, 21103), (417, 21136), (423, 21157), (427, 21175), (430, 21181), (440, 21208), (451, 21235), (467, 21289), (471, 21301), (474, 21316), (482, 21340), (490, 21355), (492, 21361), (500, 21382), (506, 21415), (513, 21430), (516, 21439), (538, 21490), (591, 21562), (615, 21625), (621, 21643), (643, 21715), (647, 21739), (649, 21745), (650, 21748), (656, 21766), (663, 21802), (684, 21889), (709, 21979), (717, 22003),

Gene: PitaDog_25 Start: 20567, Stop: 21961, Start Num: 203

Candidate Starts for PitaDog_25:

(Start: 203 @20567 has 73 MA's), (220, 20624), (259, 20729), (260, 20732), (292, 20816), (350, 20849), (374, 20900), (378, 20906), (399, 20987), (400, 20990), (402, 20996), (406, 21032), (410, 21050), (411, 21053), (417, 21086), (423, 21107), (467, 21239), (474, 21266), (490, 21305), (499, 21326), (500, 21332), (506, 21365), (513, 21380), (516, 21389), (535, 21434), (552, 21470), (591, 21512), (615, 21575), (621, 21593), (649, 21695), (650, 21698), (656, 21716), (657, 21719), (662, 21743), (663, 21752), (684, 21839), (709, 21929), (717, 21953),

Gene: Pleakley_82 Start: 56142, Stop: 54094, Start Num: 35

Candidate Starts for Pleakley_82:

(Start: 35 @56142 has 34 MA's), (83, 55989), (95, 55974), (124, 55893), (189, 55770), (201, 55740), (235, 55632), (255, 55599), (270, 55548), (281, 55515), (318, 55425), (327, 55392), (342, 55362), (369, 55287), (388, 55206), (403, 55155), (427, 55059), (441, 55026), (453, 54990), (461, 54963), (499, 54846), (500, 54840), (522, 54771), (530, 54753), (534, 54741), (601, 54579), (607, 54546), (617, 54516), (622, 54501), (634, 54459), (666, 54336), (684, 54255), (692, 54231), (707, 54171),

Gene: PokyPuppy_58 Start: 52764, Stop: 51256, Start Num: 177

Candidate Starts for PokyPuppy_58:

(69, 53043), (81, 52992), (103, 52941), (118, 52893), (121, 52887), (131, 52857), (Start: 143 @52824 has 3 MA's), (149, 52815), (Start: 162 @52788 has 28 MA's), (Start: 177 @52764 has 1 MA's), (Start:

215 @52665 has 28 MA's), (227, 52620), (235, 52578), (254, 52530), (255, 52527), (257, 52521), (258, 52518), (263, 52500), (285, 52452), (371, 52329), (377, 52311), (402, 52224), (403, 52209), (422, 52116), (430, 52089), (447, 52038), (465, 51978), (466, 51975), (468, 51966), (472, 51948), (487, 51906), (503, 51861), (585, 51726), (589, 51711), (595, 51690), (634, 51633), (643, 51606), (657, 51549), (658, 51543), (660, 51531), (675, 51480), (680, 51456), (687, 51417), (690, 51405), (691, 51402), (718, 51309), (727, 51294),

Gene: Poland_64 Start: 54025, Stop: 52493, Start Num: 162

Candidate Starts for Poland_64:

(69, 54280), (81, 54229), (121, 54124), (131, 54094), (Start: 143 @54061 has 3 MA's), (149, 54052), (Start: 162 @54025 has 28 MA's), (227, 53857), (235, 53815), (242, 53797), (254, 53767), (258, 53755), (262, 53743), (263, 53737), (269, 53716), (377, 53548), (402, 53461), (403, 53446), (405, 53434), (411, 53404), (422, 53353), (447, 53275), (456, 53251), (459, 53233), (465, 53215), (466, 53212), (468, 53203), (472, 53185), (487, 53143), (503, 53098), (510, 53080), (585, 52963), (589, 52948), (595, 52927), (641, 52846), (643, 52843), (657, 52786), (658, 52780), (660, 52768), (680, 52693), (687, 52654), (690, 52642), (691, 52639), (718, 52546), (727, 52531),

Gene: Polyyuki_72 Start: 53158, Stop: 51122, Start Num: 36

Candidate Starts for Polyyuki_72:

(13, 53326), (Start: 36 @53158 has 6 MA's), (Start: 57 @53092 has 8 MA's), (72, 53050), (201, 52765), (224, 52708), (235, 52657), (243, 52642), (276, 52552), (281, 52540), (318, 52447), (344, 52375), (370, 52306), (385, 52234), (403, 52177), (461, 51997), (468, 51973), (488, 51910), (500, 51874), (530, 51787), (592, 51655), (600, 51616), (601, 51613), (607, 51568), (649, 51421), (666, 51358), (678, 51316), (684, 51277), (692, 51253),

Gene: PorkBelly_54 Start: 43266, Stop: 41917, Start Num: 206

Candidate Starts for PorkBelly_54:

(179, 43317), (Start: 206 @43266 has 7 MA's), (Start: 215 @43227 has 28 MA's), (226, 43188), (227, 43182), (233, 43152), (248, 43134), (256, 43116), (261, 43101), (281, 43053), (286, 43041), (349, 42984), (350, 42981), (351, 42978), (409, 42774), (434, 42702), (455, 42678), (470, 42627), (475, 42603), (482, 42585), (492, 42564), (499, 42549), (518, 42480), (523, 42465), (548, 42402), (613, 42300), (616, 42294), (629, 42264), (643, 42210), (647, 42186), (659, 42144), (689, 42018), (690, 42015), (699, 41979),

Gene: PotatoChip_72 Start: 52511, Stop: 50586, Start Num: 65

Candidate Starts for PotatoChip_72:

(32, 52604), (34, 52598), (Start: 65 @52511 has 8 MA's), (128, 52340), (150, 52286), (235, 52082), (297, 51926), (318, 51875), (320, 51872), (332, 51830), (369, 51743), (370, 51740), (385, 51668), (390, 51659), (499, 51308), (500, 51302), (506, 51269), (634, 50930), (651, 50864), (655, 50852), (659, 50834), (666, 50807), (681, 50744), (689, 50711), (708, 50639),

Gene: Potatoes_29 Start: 22153, Stop: 23553, Start Num: 203

Candidate Starts for Potatoes_29:

(Start: 203 @22153 has 73 MA's), (220, 22216), (259, 22321), (260, 22324), (292, 22408), (350, 22441), (374, 22492), (378, 22498), (399, 22579), (400, 22582), (402, 22588), (406, 22624), (410, 22642), (411, 22645), (423, 22699), (440, 22750), (467, 22831), (474, 22858), (486, 22888), (490, 22897), (500, 22924), (506, 22957), (513, 22972), (535, 23026), (544, 23047), (550, 23059), (578, 23071), (651, 23293), (654, 23302), (656, 23308), (663, 23344), (680, 23404), (684, 23431), (709, 23521),

Gene: Potty_40 Start: 25934, Stop: 27841, Start Num: 60

Candidate Starts for Potty_40:

(Start: 60 @25934 has 35 MA's), (85, 25997), (97, 26018), (115, 26072), (202, 26249), (219, 26294), (276, 26468), (279, 26477), (318, 26567), (331, 26624), (384, 26810), (423, 26945), (425, 26957), (444, 26990), (500, 27119), (542, 27236), (592, 27311), (649, 27545), (650, 27548), (665, 27608), (685, 27698), (694, 27728), (704, 27770), (722, 27821),

Gene: Poultress_39 Start: 26280, Stop: 28187, Start Num: 60

Candidate Starts for Poultress_39:

(Start: 60 @26280 has 35 MA's), (85, 26343), (97, 26364), (115, 26418), (202, 26595), (219, 26640), (276, 26814), (279, 26823), (318, 26913), (331, 26970), (384, 27156), (423, 27291), (425, 27303), (444, 27336), (500, 27465), (542, 27582), (650, 27894), (665, 27954), (685, 28044), (694, 28074), (704, 28116), (722, 28167),

Gene: Prager_53 Start: 39749, Stop: 41692, Start Num: 54

Candidate Starts for Prager_53:

(Start: 54 @39749 has 63 MA's), (69, 39776), (94, 39848), (114, 39902), (136, 39962), (141, 39980), (145, 39989), (176, 40040), (196, 40082), (214, 40118), (235, 40205), (272, 40298), (277, 40313), (286, 40334), (328, 40436), (340, 40469), (347, 40493), (370, 40553), (393, 40640), (409, 40715), (445, 40805), (461, 40856), (462, 40859), (495, 40949), (500, 40967), (506, 41000), (530, 41054), (534, 41066), (542, 41084), (583, 41147), (604, 41231), (642, 41348), (649, 41396), (666, 41459), (684, 41543),

Gene: Preamble_25 Start: 20577, Stop: 21971, Start Num: 203

Candidate Starts for Preamble_25:

(Start: 203 @20577 has 73 MA's), (220, 20634), (259, 20739), (260, 20742), (292, 20826), (350, 20859), (377, 20913), (378, 20916), (402, 21006), (406, 21042), (411, 21063), (417, 21096), (423, 21117), (440, 21168), (467, 21249), (474, 21276), (490, 21315), (500, 21342), (506, 21375), (513, 21390), (516, 21399), (535, 21444), (552, 21480), (607, 21561), (615, 21585), (621, 21603), (626, 21615), (643, 21675), (647, 21699), (649, 21705), (650, 21708), (656, 21726), (657, 21729), (662, 21753), (663, 21762), (684, 21849), (698, 21900), (709, 21939),

Gene: Predator_60 Start: 44295, Stop: 46307, Start Num: 54

Candidate Starts for Predator_60:

(Start: 54 @44295 has 63 MA's), (64, 44310), (73, 44349), (83, 44379), (87, 44388), (97, 44403), (115, 44457), (116, 44463), (159, 44568), (189, 44619), (196, 44640), (202, 44652), (217, 44721), (224, 44742), (240, 44802), (255, 44826), (262, 44847), (263, 44853), (350, 45093), (354, 45105), (368, 45138), (370, 45144), (398, 45246), (460, 45459), (461, 45462), (476, 45510), (497, 45561), (499, 45567), (500, 45573), (530, 45663), (534, 45675), (595, 45798), (607, 45831), (648, 45975), (652, 45987), (660, 46020), (681, 46104), (684, 46122), (686, 46125), (698, 46173), (715, 46230),

Gene: Puissant_62 Start: 45753, Stop: 47810, Start Num: 54

Candidate Starts for Puissant_62:

(Start: 54 @45753 has 63 MA's), (73, 45807), (77, 45816), (Start: 113 @45909 has 3 MA's), (115, 45915), (124, 45942), (184, 46068), (189, 46077), (202, 46110), (208, 46131), (217, 46179), (224, 46200), (255, 46284), (256, 46287), (262, 46305), (263, 46311), (279, 46365), (350, 46551), (354, 46563), (361, 46581), (368, 46596), (370, 46602), (461, 46920), (462, 46923), (476, 46968), (497, 47019), (500, 47031), (530, 47121), (534, 47133), (548, 47166), (561, 47190), (577, 47199), (607, 47289), (618, 47322), (648, 47433), (649, 47436), (650, 47439), (651, 47442), (665, 47496), (668, 47505), (684, 47580), (692, 47604), (698, 47631), (738, 47757),

Gene: Pumancara_25 Start: 20596, Stop: 21993, Start Num: 203

Candidate Starts for Pumancara_25:

(Start: 203 @20596 has 73 MA's), (220, 20656), (252, 20743), (259, 20761), (292, 20848), (336, 20854), (350, 20881), (374, 20932), (378, 20938), (391, 20998), (399, 21019), (402, 21028), (406,

21064), (410, 21082), (411, 21085), (417, 21118), (423, 21139), (430, 21163), (440, 21190), (451, 21217), (467, 21271), (471, 21283), (474, 21298), (482, 21322), (490, 21337), (500, 21364), (506, 21397), (513, 21412), (516, 21421), (538, 21472), (591, 21544), (607, 21583), (615, 21607), (621, 21625), (643, 21697), (647, 21721), (649, 21727), (650, 21730), (656, 21748), (663, 21784), (684, 21871), (695, 21910), (709, 21961), (717, 21985), (718, 21988),

Gene: Pumpernickel_111 Start: 80095, Stop: 78248, Start Num: 63

Candidate Starts for Pumpernickel_111:

(Start: 63 @80095 has 10 MA's), (163, 79855), (165, 79852), (179, 79831), (Start: 215 @79780 has 28 MA's), (249, 79672), (257, 79651), (340, 79489), (386, 79276), (405, 79210), (409, 79189), (411, 79180), (428, 79123), (440, 79102), (450, 79075), (461, 79039), (463, 79030), (467, 79018), (499, 78973), (500, 78967), (506, 78934), (553, 78823), (554, 78820), (571, 78778), (591, 78727), (632, 78607), (637, 78580), (654, 78520), (686, 78382), (688, 78376), (700, 78328), (718, 78268),

Gene: RAP15_29 Start: 22157, Stop: 23557, Start Num: 203

Candidate Starts for RAP15_29:

(Start: 203 @22157 has 73 MA's), (220, 22220), (259, 22325), (260, 22328), (292, 22412), (350, 22445), (374, 22496), (378, 22502), (399, 22583), (400, 22586), (402, 22592), (406, 22628), (410, 22646), (411, 22649), (423, 22703), (440, 22754), (467, 22835), (474, 22862), (486, 22892), (490, 22901), (500, 22928), (506, 22961), (513, 22976), (535, 23030), (544, 23051), (550, 23063), (578, 23075), (651, 23297), (654, 23306), (656, 23312), (663, 23348), (680, 23408), (684, 23435), (709, 23525),

Gene: Racecar_102 Start: 80738, Stop: 82576, Start Num: 59

Candidate Starts for Racecar_102:

(Start: 59 @80738 has 12 MA's), (84, 80819), (120, 80897), (167, 80993), (Start: 215 @81053 has 28 MA's), (224, 81083), (263, 81203), (278, 81254), (338, 81314), (420, 81653), (443, 81710), (450, 81731), (463, 81776), (499, 81833), (500, 81839), (506, 81872), (512, 81884), (516, 81896), (534, 81941), (552, 81980), (579, 82037), (581, 82043), (592, 82076), (617, 82145), (643, 82229), (673, 82346), (716, 82520), (736, 82562),

Gene: Rachella_40 Start: 25937, Stop: 27844, Start Num: 60

Candidate Starts for Rachella_40:

(Start: 60 @25937 has 35 MA's), (85, 26000), (97, 26021), (115, 26075), (202, 26252), (219, 26297), (276, 26471), (279, 26480), (318, 26570), (331, 26627), (384, 26813), (423, 26948), (425, 26960), (444, 26993), (500, 27122), (542, 27239), (592, 27314), (649, 27548), (650, 27551), (665, 27611), (685, 27701), (694, 27731), (704, 27773), (722, 27824),

Gene: Ranch_60 Start: 39414, Stop: 41327, Start Num: 54

Candidate Starts for Ranch_60:

(47, 39399), (Start: 53 @39411 has 13 MA's), (Start: 54 @39414 has 63 MA's), (Start: 66 @39426 has 2 MA's), (78, 39474), (93, 39507), (117, 39576), (155, 39666), (173, 39693), (178, 39702), (214, 39774), (255, 39894), (274, 39957), (314, 40047), (322, 40074), (368, 40203), (376, 40227), (383, 40269), (400, 40317), (402, 40323), (403, 40338), (406, 40359), (423, 40416), (445, 40470), (458, 40512), (476, 40572), (506, 40668), (508, 40671), (598, 40848), (613, 40899), (642, 40989), (649, 41025), (651, 41031), (665, 41085), (677, 41124), (699, 41226), (703, 41241), (709, 41262),

Gene: Rasovi_33 Start: 23465, Stop: 24892, Start Num: 207

Candidate Starts for Rasovi_33:

(183, 23426), (195, 23447), (Start: 207 @23465 has 19 MA's), (377, 23822), (391, 23885), (403, 23930), (406, 23951), (480, 24218), (500, 24266), (502, 24287), (513, 24314), (524, 24341), (525, 24344), (535, 24371), (538, 24377), (554, 24413), (608, 24491), (615, 24512), (621, 24530), (626, 24542), (649, 24626), (663, 24683), (668, 24695), (679, 24734), (684, 24770), (687, 24776),

Gene: RazorC_60 Start: 39561, Stop: 41474, Start Num: 54

Candidate Starts for RazorC_60:

(Start: 53 @39558 has 13 MA's), (Start: 54 @39561 has 63 MA's), (Start: 66 @39573 has 2 MA's), (78, 39621), (93, 39654), (155, 39813), (173, 39840), (178, 39849), (214, 39921), (255, 40041), (274, 40104), (314, 40194), (322, 40221), (368, 40350), (376, 40374), (383, 40416), (385, 40428), (393, 40443), (400, 40464), (403, 40485), (406, 40506), (423, 40563), (427, 40581), (445, 40617), (458, 40659), (476, 40719), (506, 40815), (508, 40818), (598, 40995), (613, 41046), (642, 41136), (649, 41172), (651, 41178), (665, 41232), (677, 41271), (699, 41373), (703, 41388), (709, 41409),

Gene: RcigaStruga_29 Start: 22127, Stop: 23518, Start Num: 203

Candidate Starts for RcigaStruga_29:

(Start: 203 @22127 has 73 MA's), (228, 22214), (259, 22286), (260, 22289), (285, 22355), (292, 22373), (336, 22379), (350, 22406), (378, 22463), (399, 22544), (402, 22553), (406, 22589), (410, 22607), (417, 22643), (423, 22664), (427, 22682), (440, 22715), (457, 22754), (467, 22796), (474, 22823), (482, 22847), (499, 22883), (500, 22889), (506, 22922), (513, 22937), (516, 22946), (535, 22991), (550, 23024), (552, 23027), (607, 23108), (620, 23144), (621, 23150), (626, 23162), (649, 23252), (656, 23273), (657, 23276), (662, 23300), (663, 23309), (684, 23396), (698, 23447), (709, 23486), (717, 23510),

Gene: RedRaider_79 Start: 58956, Stop: 56899, Start Num: 35

Candidate Starts for RedRaider_79:

(1, 59529), (6, 59244), (Start: 35 @58956 has 34 MA's), (189, 58581), (202, 58548), (236, 58440), (262, 58389), (279, 58329), (281, 58326), (311, 58254), (318, 58236), (342, 58173), (343, 58167), (377, 58074), (388, 58017), (398, 57993), (427, 57870), (441, 57837), (461, 57774), (500, 57651), (522, 57582), (530, 57564), (583, 57459), (586, 57450), (601, 57390), (607, 57351), (617, 57321), (634, 57264), (649, 57204), (658, 57174), (666, 57141), (683, 57069), (707, 56976),

Gene: ReginaGlobina_100 Start: 80422, Stop: 82278, Start Num: 59

Candidate Starts for ReginaGlobina_100:

(Start: 59 @80422 has 12 MA's), (167, 80695), (227, 80800), (268, 80923), (273, 80935), (275, 80944), (345, 81040), (365, 81115), (376, 81175), (411, 81328), (424, 81373), (450, 81433), (463, 81478), (499, 81535), (500, 81541), (506, 81574), (512, 81586), (516, 81598), (569, 81715), (570, 81718), (592, 81775), (606, 81811), (610, 81823), (617, 81844), (643, 81928), (666, 82021), (673, 82045), (713, 82213), (714, 82216),

Gene: RemRem_60 Start: 51466, Stop: 49934, Start Num: 162

Candidate Starts for RemRem_60:

(69, 51721), (81, 51670), (103, 51619), (121, 51565), (131, 51535), (Start: 143 @51502 has 3 MA's), (149, 51493), (Start: 162 @51466 has 28 MA's), (227, 51298), (235, 51256), (254, 51208), (258, 51196), (262, 51184), (263, 51178), (269, 51157), (285, 51130), (377, 50989), (402, 50902), (403, 50887), (405, 50875), (411, 50845), (422, 50794), (430, 50767), (447, 50716), (459, 50674), (465, 50656), (466, 50653), (472, 50626), (487, 50584), (503, 50539), (585, 50404), (589, 50389), (595, 50368), (634, 50311), (641, 50287), (643, 50284), (657, 50227), (658, 50221), (659, 50215), (660, 50209), (675, 50158), (680, 50134), (687, 50095), (690, 50083), (691, 50080), (718, 49987), (727, 49972), (737, 49951),

Gene: Reynauld_56 Start: 50676, Stop: 49183, Start Num: 190

Candidate Starts for Reynauld_56:

(Start: 190 @50676 has 3 MA's), (Start: 205 @50640 has 5 MA's), (213, 50607), (Start: 215 @50598 has 28 MA's), (217, 50589), (220, 50580), (223, 50571), (227, 50553), (245, 50493), (254, 50481), (257, 50472), (354, 50325), (375, 50268), (380, 50244), (400, 50181), (422, 50067), (446, 49992), (447, 49989), (456, 49965), (459, 49947), (466, 49926), (475, 49887), (479, 49875), (480, 49872),

(582, 49695), (593, 49659), (660, 49446), (672, 49404), (684, 49338), (704, 49263), (709, 49248),

Gene: Riduram_61 Start: 39137, Stop: 41050, Start Num: 54

Candidate Starts for Riduram_61:

(Start: 53 @39134 has 13 MA's), (Start: 54 @39137 has 63 MA's), (Start: 66 @39149 has 2 MA's), (78, 39197), (93, 39230), (155, 39389), (173, 39416), (178, 39425), (214, 39497), (255, 39617), (274, 39680), (314, 39770), (322, 39797), (368, 39926), (376, 39950), (383, 39992), (385, 40004), (393, 40019), (400, 40040), (403, 40061), (406, 40082), (423, 40139), (427, 40157), (445, 40193), (458, 40235), (476, 40295), (506, 40391), (508, 40394), (598, 40571), (613, 40622), (642, 40712), (649, 40748), (651, 40754), (665, 40808), (677, 40847), (699, 40949), (703, 40964), (709, 40985),

Gene: Rie18_40 Start: 25493, Stop: 27400, Start Num: 60

Candidate Starts for Rie18_40:

(18, 25319), (Start: 60 @25493 has 35 MA's), (85, 25556), (97, 25577), (115, 25631), (194, 25793), (202, 25808), (219, 25853), (276, 26027), (279, 26036), (318, 26126), (320, 26129), (329, 26168), (331, 26183), (377, 26333), (384, 26369), (412, 26477), (423, 26504), (425, 26516), (444, 26549), (500, 26678), (542, 26795), (650, 27107), (665, 27167), (685, 27257), (694, 27287), (695, 27293), (704, 27329), (722, 27380),

Gene: RikSengupta_42 Start: 26725, Stop: 28659, Start Num: 62

Candidate Starts for RikSengupta_42:

(Start: 28 @26629 has 1 MA's), (Start: 58 @26719 has 8 MA's), (Start: 62 @26725 has 6 MA's), (115, 26872), (120, 26890), (202, 27049), (243, 27175), (276, 27265), (279, 27274), (318, 27364), (329, 27406), (335, 27436), (376, 27568), (425, 27754), (436, 27772), (444, 27787), (461, 27844), (480, 27904), (517, 27976), (580, 28093), (587, 28114), (602, 28180), (606, 28210), (633, 28288), (650, 28366), (665, 28426), (677, 28465), (685, 28516), (691, 28534), (724, 28642),

Gene: Riovina_26 Start: 21745, Stop: 23139, Start Num: 203

Candidate Starts for Riovina_26:

(Start: 203 @21745 has 73 MA's), (220, 21802), (252, 21889), (259, 21907), (260, 21910), (292, 21994), (350, 22027), (374, 22078), (378, 22084), (391, 22144), (402, 22174), (406, 22210), (410, 22228), (423, 22285), (427, 22303), (430, 22309), (440, 22336), (467, 22417), (474, 22444), (482, 22468), (490, 22483), (500, 22510), (506, 22543), (513, 22558), (591, 22690), (606, 22726), (615, 22753), (620, 22765), (626, 22783), (649, 22873), (651, 22879), (656, 22894), (657, 22897), (663, 22930), (680, 22990), (684, 23017), (700, 23074), (709, 23107), (717, 23131),

Gene: Riparian_68 Start: 47408, Stop: 49168, Start Num: 191

Candidate Starts for Riparian_68:

(Start: 191 @47408 has 9 MA's), (218, 47477), (251, 47573), (256, 47582), (280, 47663), (300, 47708), (368, 47909), (382, 47957), (398, 48017), (402, 48029), (413, 48095), (454, 48218), (461, 48242), (468, 48266), (500, 48470), (506, 48503), (513, 48518), (530, 48557), (531, 48560), (534, 48569), (583, 48638), (622, 48770), (649, 48893), (650, 48896), (658, 48923), (665, 48953), (667, 48959), (668, 48962), (673, 48980), (677, 48992), (709, 49127), (720, 49157),

Gene: Riverdale_29 Start: 22087, Stop: 23487, Start Num: 203

Candidate Starts for Riverdale_29:

(Start: 203 @22087 has 73 MA's), (220, 22150), (259, 22255), (260, 22258), (292, 22342), (350, 22375), (374, 22426), (378, 22432), (399, 22513), (400, 22516), (402, 22522), (406, 22558), (410, 22576), (411, 22579), (417, 22612), (423, 22633), (427, 22651), (440, 22684), (467, 22765), (474, 22792), (486, 22822), (490, 22831), (500, 22858), (506, 22891), (513, 22906), (535, 22960), (544, 22981), (550, 22993), (578, 23005), (651, 23227), (654, 23236), (656, 23242), (663, 23278), (680, 23338), (684, 23365), (709, 23455),

Gene: Roberts_38 Start: 26376, Stop: 24544, Start Num: 63

Candidate Starts for Roberts_38:

(Start: 63 @26376 has 10 MA's), (Start: 79 @26319 has 2 MA's), (175, 26118), (227, 25983), (273, 25848), (281, 25821), (340, 25764), (344, 25749), (361, 25695), (376, 25599), (378, 25593), (380, 25578), (391, 25533), (403, 25485), (406, 25464), (410, 25446), (425, 25395), (460, 25302), (463, 25290), (500, 25227), (529, 25155), (558, 25095), (569, 25074), (592, 25008), (597, 24990), (606, 24972), (607, 24969), (620, 24933), (649, 24825), (652, 24816), (668, 24756), (680, 24708),

Gene: RobinSparkles_61 Start: 50974, Stop: 49484, Start Num: 185

Candidate Starts for RobinSparkles_61:

(Start: 185 @50974 has 5 MA's), (217, 50881), (220, 50872), (224, 50860), (227, 50845), (229, 50827), (255, 50770), (277, 50698), (278, 50695), (351, 50602), (362, 50569), (375, 50536), (376, 50533), (380, 50512), (402, 50443), (406, 50407), (425, 50320), (447, 50257), (449, 50254), (458, 50224), (477, 50152), (479, 50143), (538, 50020), (541, 50014), (632, 49882), (643, 49840), (653, 49795), (660, 49765), (732, 49513),

Gene: Rockabye_105 Start: 73971, Stop: 75830, Start Num: 59

Candidate Starts for Rockabye_105:

(Start: 59 @73971 has 12 MA's), (144, 74187), (167, 74229), (171, 74235), (208, 74268), (224, 74337), (227, 74352), (235, 74388), (254, 74427), (278, 74508), (338, 74568), (409, 74871), (450, 74985), (463, 75030), (500, 75093), (506, 75126), (512, 75138), (531, 75186), (538, 75204), (569, 75270), (570, 75273), (579, 75291), (592, 75330), (617, 75399), (622, 75414), (632, 75441), (640, 75477), (643, 75483), (673, 75600), (700, 75720), (714, 75771),

Gene: Rooney_70 Start: 50294, Stop: 48408, Start Num: 54

Candidate Starts for Rooney_70:

(Start: 54 @50294 has 63 MA's), (64, 50279), (85, 50216), (89, 50207), (132, 50102), (148, 50063), (159, 50039), (202, 49964), (214, 49940), (264, 49781), (276, 49742), (279, 49733), (323, 49625), (358, 49517), (370, 49469), (400, 49364), (408, 49313), (425, 49253), (454, 49187), (460, 49166), (461, 49163), (506, 49058), (511, 49049), (515, 49037), (580, 48938), (613, 48821), (618, 48809), (629, 48782), (650, 48692), (655, 48677), (668, 48623), (681, 48566), (709, 48458), (715, 48440),

Gene: Rootkit7_33 Start: 23258, Stop: 24685, Start Num: 207

Candidate Starts for Rootkit7_33:

(188, 23216), (Start: 207 @23258 has 19 MA's), (361, 23576), (403, 23723), (406, 23744), (480, 24011), (500, 24059), (502, 24080), (525, 24137), (538, 24170), (554, 24206), (608, 24284), (615, 24305), (642, 24386), (643, 24389), (663, 24476), (668, 24488), (679, 24527), (684, 24563), (687, 24569), (690, 24581), (706, 24644),

Gene: Rope_66 Start: 47562, Stop: 49322, Start Num: 191

Candidate Starts for Rope_66:

(Start: 191 @47562 has 9 MA's), (218, 47631), (251, 47727), (256, 47736), (280, 47817), (300, 47862), (368, 48063), (382, 48111), (398, 48171), (402, 48183), (413, 48249), (454, 48372), (461, 48396), (468, 48420), (500, 48624), (506, 48657), (513, 48672), (530, 48711), (531, 48714), (534, 48723), (583, 48792), (622, 48924), (649, 49047), (650, 49050), (658, 49077), (665, 49107), (667, 49113), (668, 49116), (673, 49134), (677, 49146), (709, 49281), (718, 49308), (720, 49311),

Gene: Rota_56 Start: 39801, Stop: 41717, Start Num: 53

Candidate Starts for Rota_56:

(Start: 53 @39801 has 13 MA's), (Start: 54 @39804 has 63 MA's), (Start: 66 @39816 has 2 MA's), (78, 39864), (93, 39897), (117, 39966), (155, 40056), (173, 40083), (178, 40092), (214, 40164), (235, 40251), (252, 40281), (255, 40284), (274, 40347), (314, 40437), (322, 40464), (368, 40593), (376, 40617), (383, 40659), (400, 40707), (403, 40728), (406, 40749), (423, 40806), (445, 40860), (458,

40902), (476, 40962), (506, 41058), (508, 41061), (598, 41238), (613, 41289), (640, 41376), (642, 41379), (649, 41415), (651, 41421), (665, 41475), (677, 41514), (699, 41616), (703, 41631), (709, 41652), (735, 41709),

Gene: RoyalG_59 Start: 52241, Stop: 50709, Start Num: 162

Candidate Starts for RoyalG_59:

(69, 52496), (81, 52445), (121, 52340), (131, 52310), (Start: 143 @52277 has 3 MA's), (149, 52268), (Start: 162 @52241 has 28 MA's), (Start: 215 @52118 has 28 MA's), (227, 52073), (235, 52031), (254, 51983), (255, 51980), (257, 51974), (258, 51971), (263, 51953), (269, 51932), (285, 51905), (371, 51782), (377, 51764), (402, 51677), (403, 51662), (422, 51569), (447, 51491), (456, 51467), (465, 51431), (472, 51401), (487, 51359), (503, 51314), (585, 51179), (589, 51164), (595, 51143), (643, 51059), (657, 51002), (658, 50996), (660, 50984), (675, 50933), (680, 50909), (687, 50870), (690, 50858), (691, 50855), (718, 50762), (727, 50747),

Gene: Rozby_29 Start: 22088, Stop: 23488, Start Num: 203

Candidate Starts for Rozby_29:

(Start: 203 @22088 has 73 MA's), (220, 22151), (259, 22256), (260, 22259), (292, 22343), (350, 22376), (374, 22427), (378, 22433), (399, 22514), (400, 22517), (402, 22523), (406, 22559), (410, 22577), (411, 22580), (417, 22613), (423, 22634), (427, 22652), (440, 22685), (467, 22766), (474, 22793), (486, 22823), (490, 22832), (500, 22859), (506, 22892), (513, 22907), (535, 22961), (544, 22982), (550, 22994), (578, 23006), (651, 23228), (654, 23237), (656, 23243), (663, 23279), (680, 23339), (684, 23366), (709, 23456),

Gene: Rukungu_63 Start: 41487, Stop: 43400, Start Num: 54

Candidate Starts for Rukungu_63:

(19, 41361), (21, 41370), (22, 41382), (33, 41415), (Start: 53 @41484 has 13 MA's), (Start: 54 @41487 has 63 MA's), (Start: 66 @41499 has 2 MA's), (78, 41547), (93, 41580), (117, 41649), (155, 41739), (173, 41766), (178, 41775), (214, 41847), (235, 41934), (255, 41967), (274, 42030), (314, 42120), (368, 42276), (376, 42300), (383, 42342), (400, 42390), (403, 42411), (406, 42432), (423, 42489), (445, 42543), (458, 42585), (476, 42645), (506, 42741), (508, 42744), (598, 42921), (613, 42972), (642, 43062), (649, 43098), (651, 43104), (665, 43158), (677, 43197), (699, 43299), (703, 43314), (709, 43335),

Gene: Rumi_61 Start: 39105, Stop: 41018, Start Num: 54

Candidate Starts for Rumi_61:

(Start: 53 @39102 has 13 MA's), (Start: 54 @39105 has 63 MA's), (Start: 66 @39117 has 2 MA's), (78, 39165), (93, 39198), (155, 39357), (173, 39384), (178, 39393), (214, 39465), (255, 39585), (274, 39648), (314, 39738), (322, 39765), (368, 39894), (376, 39918), (383, 39960), (385, 39972), (393, 39987), (400, 40008), (403, 40029), (406, 40050), (423, 40107), (427, 40125), (445, 40161), (458, 40203), (476, 40263), (506, 40359), (508, 40362), (598, 40539), (613, 40590), (642, 40680), (649, 40716), (651, 40722), (665, 40776), (677, 40815), (699, 40917), (703, 40932), (709, 40953),

Gene: SBlackberry_33 Start: 23236, Stop: 24663, Start Num: 207

Candidate Starts for SBlackberry_33:

(Start: 207 @23236 has 19 MA's), (361, 23554), (377, 23593), (391, 23656), (403, 23701), (406, 23722), (430, 23821), (480, 23989), (500, 24037), (502, 24058), (513, 24085), (524, 24112), (535, 24142), (536, 24145), (538, 24148), (554, 24184), (608, 24262), (634, 24346), (642, 24364), (643, 24367), (663, 24454), (668, 24466), (679, 24505), (684, 24541), (687, 24547), (698, 24592), (706, 24622),

Gene: SJReid_105 Start: 73084, Stop: 74940, Start Num: 59

Candidate Starts for SJReid_105:

(Start: 59 @73084 has 12 MA's), (167, 73342), (171, 73348), (208, 73381), (Start: 211 @73390 has 3 MA's), (224, 73450), (227, 73465), (254, 73540), (263, 73570), (278, 73621), (338, 73681), (409, 73984), (450, 74098), (463, 74143), (499, 74200), (500, 74206), (506, 74239), (512, 74251), (531, 74299), (534, 74308), (538, 74317), (570, 74386), (592, 74443), (617, 74512), (640, 74590), (643, 74596), (666, 74689), (673, 74713), (690, 74794), (700, 74833), (714, 74884),

Gene: Sadboi_61 Start: 41296, Stop: 43209, Start Num: 54

Candidate Starts for Sadboi_61:

(Start: 53 @41293 has 13 MA's), (Start: 54 @41296 has 63 MA's), (Start: 66 @41308 has 2 MA's), (78, 41356), (93, 41389), (117, 41458), (155, 41548), (173, 41575), (178, 41584), (214, 41656), (235, 41743), (255, 41776), (274, 41839), (314, 41929), (322, 41956), (368, 42085), (376, 42109), (383, 42151), (400, 42199), (403, 42220), (406, 42241), (423, 42298), (445, 42352), (458, 42394), (476, 42454), (506, 42550), (508, 42553), (598, 42730), (613, 42781), (642, 42871), (649, 42907), (651, 42913), (665, 42967), (677, 43006), (699, 43108), (703, 43123), (709, 43144),

Gene: Sam12_58 Start: 51466, Stop: 49934, Start Num: 162

Candidate Starts for Sam12_58:

(69, 51721), (81, 51670), (103, 51619), (121, 51565), (131, 51535), (Start: 143 @51502 has 3 MA's), (149, 51493), (Start: 162 @51466 has 28 MA's), (227, 51298), (235, 51256), (254, 51208), (258, 51196), (262, 51184), (263, 51178), (269, 51157), (285, 51130), (377, 50989), (402, 50902), (403, 50887), (405, 50875), (411, 50845), (422, 50794), (430, 50767), (447, 50716), (459, 50674), (465, 50656), (466, 50653), (472, 50626), (487, 50584), (503, 50539), (585, 50404), (589, 50389), (595, 50368), (634, 50311), (641, 50287), (643, 50284), (657, 50227), (658, 50221), (659, 50215), (660, 50209), (675, 50158), (680, 50134), (687, 50095), (690, 50083), (691, 50080), (718, 49987), (727, 49972), (737, 49951),

Gene: SamW_45 Start: 36746, Stop: 38122, Start Num: 206

Candidate Starts for SamW_45:

(Start: 206 @36746 has 7 MA's), (Start: 225 @36815 has 1 MA's), (228, 36833), (261, 36926), (283, 36986), (286, 36992), (287, 36995), (373, 37115), (379, 37133), (406, 37250), (464, 37388), (475, 37427), (490, 37460), (492, 37466), (499, 37481), (506, 37520), (532, 37580), (542, 37604), (584, 37640), (613, 37709), (616, 37715), (643, 37796), (666, 37892), (669, 37904), (673, 37916), (684, 37973), (687, 37979), (690, 37991), (697, 38021), (711, 38072),

Gene: Sampudon_60 Start: 41637, Stop: 43553, Start Num: 53

Candidate Starts for Sampudon_60:

(Start: 53 @41637 has 13 MA's), (Start: 54 @41640 has 63 MA's), (Start: 66 @41652 has 2 MA's), (78, 41700), (117, 41802), (155, 41892), (173, 41919), (178, 41928), (214, 42000), (255, 42120), (274, 42183), (314, 42273), (322, 42300), (368, 42429), (376, 42453), (383, 42495), (400, 42543), (403, 42564), (406, 42585), (423, 42642), (445, 42696), (458, 42738), (476, 42798), (506, 42894), (508, 42897), (598, 43074), (613, 43125), (640, 43212), (642, 43215), (649, 43251), (651, 43257), (665, 43311), (677, 43350), (699, 43452), (703, 43467), (709, 43488),

Gene: Sapo_34 Start: 32116, Stop: 30710, Start Num: 209

Candidate Starts for Sapo_34:

(105, 32353), (107, 32350), (146, 32239), (154, 32224), (Start: 209 @32116 has 13 MA's), (227, 32038), (232, 32011), (254, 31981), (255, 31978), (381, 31771), (386, 31738), (440, 31531), (490, 31384), (497, 31369), (547, 31228), (621, 31093), (632, 31063), (633, 31060), (649, 30991), (650, 30988), (657, 30967), (665, 30931), (666, 30928), (687, 30841), (690, 30829), (709, 30742),

Gene: SassyC_75 Start: 51233, Stop: 49344, Start Num: 54

Candidate Starts for SassyC_75:

(Start: 54 @51233 has 63 MA's), (85, 51155), (89, 51146), (120, 51062), (132, 51041), (159, 50978), (199, 50909), (202, 50903), (214, 50879), (276, 50681), (311, 50597), (313, 50594), (323, 50564), (329, 50537), (358, 50456), (400, 50303), (408, 50252), (425, 50192), (460, 50105), (461, 50102), (506, 49997), (511, 49988), (515, 49976), (580, 49877), (594, 49838), (618, 49748), (629, 49721), (630, 49715), (650, 49631), (665, 49571), (668, 49562), (672, 49547), (681, 49505), (684, 49487), (699, 49433), (708, 49400), (715, 49379), (722, 49361),

Gene: Savage2526_29 Start: 22151, Stop: 23551, Start Num: 203

Candidate Starts for Savage2526_29:

(Start: 203 @22151 has 73 MA's), (220, 22214), (259, 22319), (260, 22322), (292, 22406), (350, 22439), (374, 22490), (378, 22496), (399, 22577), (400, 22580), (402, 22586), (406, 22622), (410, 22640), (411, 22643), (423, 22697), (440, 22748), (467, 22829), (474, 22856), (486, 22886), (490, 22895), (500, 22922), (506, 22955), (513, 22970), (535, 23024), (544, 23045), (550, 23057), (578, 23069), (651, 23291), (654, 23300), (656, 23306), (663, 23342), (680, 23402), (684, 23429), (709, 23519),

Gene: Scuba_83 Start: 56215, Stop: 54161, Start Num: 35

Candidate Starts for Scuba_83:

(7, 56488), (Start: 35 @56215 has 34 MA's), (83, 56062), (95, 56047), (124, 55966), (189, 55843), (201, 55813), (235, 55705), (255, 55672), (270, 55621), (281, 55588), (318, 55498), (327, 55465), (342, 55435), (388, 55279), (403, 55228), (427, 55132), (441, 55099), (453, 55063), (461, 55036), (500, 54913), (522, 54844), (530, 54826), (534, 54814), (601, 54652), (607, 54613), (617, 54583), (622, 54568), (649, 54466), (666, 54403), (684, 54322), (692, 54298), (707, 54238),

Gene: Scuttle_29 Start: 22156, Stop: 23556, Start Num: 203

Candidate Starts for Scuttle_29:

(Start: 203 @22156 has 73 MA's), (220, 22219), (259, 22324), (260, 22327), (292, 22411), (350, 22444), (374, 22495), (378, 22501), (399, 22582), (400, 22585), (402, 22591), (406, 22627), (410, 22645), (411, 22648), (417, 22681), (423, 22702), (440, 22753), (467, 22834), (474, 22861), (490, 22900), (500, 22927), (506, 22960), (513, 22975), (535, 23029), (544, 23050), (550, 23062), (578, 23074), (621, 23188), (651, 23296), (654, 23305), (656, 23311), (663, 23347), (680, 23407), (684, 23434), (709, 23524),

Gene: Send513_66 Start: 47939, Stop: 49699, Start Num: 191

Candidate Starts for Send513_66:

(Start: 191 @47939 has 9 MA's), (218, 48008), (251, 48104), (256, 48113), (280, 48194), (300, 48239), (368, 48440), (382, 48488), (398, 48548), (402, 48560), (413, 48626), (454, 48749), (461, 48773), (468, 48797), (500, 49001), (506, 49034), (513, 49049), (530, 49088), (531, 49091), (534, 49100), (583, 49169), (622, 49301), (649, 49424), (650, 49427), (658, 49454), (665, 49484), (667, 49490), (668, 49493), (673, 49511), (677, 49523), (709, 49658), (720, 49688),

Gene: Sergei_26 Start: 21732, Stop: 23129, Start Num: 203

Candidate Starts for Sergei_26:

(Start: 203 @21732 has 73 MA's), (220, 21792), (252, 21879), (259, 21897), (260, 21900), (292, 21984), (336, 21990), (350, 22017), (374, 22068), (378, 22074), (386, 22125), (391, 22134), (399, 22155), (402, 22164), (406, 22200), (411, 22221), (417, 22254), (423, 22275), (427, 22293), (430, 22299), (440, 22326), (446, 22338), (451, 22353), (467, 22407), (482, 22458), (486, 22464), (490, 22473), (492, 22479), (500, 22500), (506, 22533), (513, 22548), (516, 22557), (591, 22680), (607, 22719), (615, 22743), (620, 22755), (649, 22863), (651, 22869), (654, 22878), (656, 22884), (663, 22920), (684, 23007), (709, 23097), (717, 23121),

Gene: ShakeNBake_70 Start: 50183, Stop: 48297, Start Num: 54

Candidate Starts for ShakeNBake_70:

(Start: 39 @50243 has 1 MA's), (Start: 54 @50183 has 63 MA's), (64, 50168), (85, 50105), (89, 50096), (97, 50084), (132, 49991), (159, 49928), (173, 49910), (202, 49853), (214, 49829), (264, 49670), (276, 49631), (279, 49622), (323, 49514), (358, 49406), (383, 49301), (408, 49202), (425, 49142), (460, 49055), (461, 49052), (506, 48947), (511, 48938), (515, 48926), (580, 48827), (594, 48788), (613, 48710), (618, 48698), (629, 48671), (650, 48581), (655, 48566), (668, 48512), (681, 48455), (715, 48329),

Gene: Shelley_57 Start: 52086, Stop: 50674, Start Num: 215

Candidate Starts for Shelley_57:

(69, 52434), (112, 52305), (Start: 143 @52215 has 3 MA's), (Start: 215 @52086 has 28 MA's), (227, 52041), (254, 51951), (255, 51948), (257, 51942), (263, 51921), (292, 51858), (359, 51780), (371, 51750), (377, 51732), (402, 51645), (403, 51630), (411, 51588), (431, 51507), (447, 51459), (459, 51417), (465, 51399), (466, 51396), (472, 51369), (491, 51318), (503, 51282), (524, 51231), (585, 51147), (591, 51126), (657, 50970), (658, 50964), (660, 50952), (690, 50826), (727, 50712),

Gene: Shynx_42 Start: 31327, Stop: 32721, Start Num: 209

Candidate Starts for Shynx_42:

(Start: 209 @31327 has 13 MA's), (Start: 211 @31330 has 3 MA's), (227, 31405), (231, 31429), (254, 31459), (259, 31474), (341, 31564), (356, 31600), (391, 31699), (395, 31708), (409, 31777), (440, 31900), (480, 32035), (492, 32062), (500, 32083), (502, 32104), (525, 32161), (538, 32194), (542, 32203), (582, 32245), (607, 32311), (615, 32335), (621, 32353), (629, 32371), (643, 32425), (649, 32455), (663, 32512), (665, 32515), (679, 32563), (686, 32602), (690, 32617), (708, 32686), (713, 32704), (717, 32713),

Gene: Sienna_50 Start: 36692, Stop: 38746, Start Num: 57

Candidate Starts for Sienna_50:

(Start: 57 @36692 has 8 MA's), (70, 36716), (95, 36779), (125, 36863), (138, 36905), (234, 37127), (255, 37163), (279, 37238), (294, 37277), (319, 37319), (325, 37337), (328, 37358), (330, 37370), (354, 37430), (359, 37445), (368, 37463), (385, 37541), (393, 37556), (394, 37559), (403, 37598), (406, 37619), (444, 37721), (461, 37778), (467, 37799), (468, 37802), (473, 37814), (495, 37862), (497, 37868), (508, 37916), (520, 37949), (531, 37973), (538, 37991), (552, 38021), (566, 38144), (575, 38177), (578, 38189), (583, 38204), (595, 38243), (604, 38288), (613, 38315), (639, 38399), (655, 38462), (665, 38504), (668, 38513), (670, 38522), (681, 38570), (683, 38579), (684, 38591), (689, 38606), (700, 38648),

Gene: SilentWarrior_40 Start: 25182, Stop: 27089, Start Num: 60

Candidate Starts for SilentWarrior_40:

(18, 25008), (Start: 60 @25182 has 35 MA's), (85, 25245), (97, 25266), (115, 25320), (182, 25455), (202, 25497), (219, 25542), (276, 25716), (279, 25725), (318, 25815), (329, 25857), (331, 25872), (384, 26058), (423, 26193), (425, 26205), (444, 26238), (500, 26367), (542, 26484), (643, 26757), (650, 26796), (665, 26856), (685, 26946), (694, 26976), (704, 27018), (722, 27069),

Gene: SirHarley_54 Start: 39905, Stop: 41848, Start Num: 54

Candidate Starts for SirHarley_54:

(37, 39842), (Start: 54 @39905 has 63 MA's), (69, 39932), (94, 40004), (114, 40058), (136, 40118), (145, 40145), (176, 40196), (196, 40238), (214, 40274), (235, 40361), (272, 40454), (277, 40469), (286, 40490), (328, 40592), (340, 40625), (347, 40649), (370, 40709), (393, 40796), (409, 40871), (445, 40961), (461, 41012), (462, 41015), (495, 41105), (500, 41123), (506, 41156), (534, 41222), (542, 41240), (583, 41303), (604, 41387), (642, 41504), (649, 41552), (666, 41615), (684, 41699),

Gene: Sixama_168 Start: 96248, Stop: 94338, Start Num: 58

Candidate Starts for Sixama_168:

(Start: 58 @96248 has 8 MA's), (68, 96227), (71, 96218), (72, 96200), (Start: 90 @96155 has 4 MA's), (98, 96140), (111, 96116), (120, 96086), (163, 95996), (193, 95951), (200, 95939), (217, 95870), (255, 95753), (263, 95726), (344, 95597), (368, 95480), (381, 95432), (402, 95363), (450, 95201), (461, 95165), (463, 95156), (468, 95141), (473, 95129), (500, 95093), (506, 95060), (533, 94985), (538, 94973), (555, 94934), (567, 94883), (622, 94721), (676, 94526), (686, 94469), (697, 94424),

Gene: Skysand_75 Start: 57318, Stop: 55261, Start Num: 35

Candidate Starts for Skysand_75:

(6, 57606), (10, 57498), (Start: 35 @57318 has 34 MA's), (189, 56943), (236, 56802), (262, 56751), (279, 56691), (281, 56688), (311, 56616), (318, 56598), (342, 56535), (343, 56529), (377, 56436), (383, 56397), (388, 56379), (398, 56355), (427, 56232), (441, 56199), (461, 56136), (500, 56013), (522, 55944), (530, 55926), (583, 55821), (601, 55752), (607, 55713), (615, 55689), (617, 55683), (634, 55626), (649, 55566), (658, 55536), (666, 55503), (707, 55338), (722, 55296),

Gene: Snakehole_40 Start: 25114, Stop: 27021, Start Num: 60

Candidate Starts for Snakehole_40:

(Start: 60 @25114 has 35 MA's), (85, 25177), (97, 25198), (115, 25252), (202, 25429), (219, 25474), (276, 25648), (279, 25657), (318, 25747), (331, 25804), (384, 25990), (423, 26125), (425, 26137), (444, 26170), (500, 26299), (542, 26416), (649, 26725), (650, 26728), (665, 26788), (685, 26878), (694, 26908), (704, 26950), (722, 27001),

Gene: Sombrero_60 Start: 52033, Stop: 50501, Start Num: 162

Candidate Starts for Sombrero_60:

(69, 52288), (81, 52237), (121, 52132), (131, 52102), (Start: 143 @52069 has 3 MA's), (149, 52060), (Start: 162 @52033 has 28 MA's), (227, 51865), (235, 51823), (254, 51775), (258, 51763), (262, 51751), (263, 51745), (269, 51724), (377, 51556), (402, 51469), (403, 51454), (405, 51442), (411, 51412), (422, 51361), (447, 51283), (456, 51259), (459, 51241), (465, 51223), (466, 51220), (468, 51211), (472, 51193), (503, 51106), (585, 50971), (589, 50956), (595, 50935), (641, 50854), (643, 50851), (657, 50794), (658, 50788), (660, 50776), (675, 50725), (680, 50701), (687, 50662), (690, 50650), (691, 50647), (718, 50554), (727, 50539), (737, 50518),

Gene: Sparcetus_42 Start: 26604, Stop: 28538, Start Num: 62

Candidate Starts for Sparcetus_42:

(Start: 28 @26508 has 1 MA's), (Start: 58 @26598 has 8 MA's), (Start: 62 @26604 has 6 MA's), (115, 26751), (120, 26769), (202, 26928), (243, 27054), (276, 27144), (279, 27153), (318, 27243), (335, 27315), (376, 27447), (425, 27633), (436, 27651), (444, 27666), (461, 27723), (480, 27783), (517, 27855), (587, 27993), (602, 28059), (606, 28089), (607, 28092), (633, 28167), (650, 28245), (665, 28305), (677, 28344), (685, 28395), (691, 28413), (724, 28521),

Gene: Squibbles_58 Start: 52329, Stop: 50797, Start Num: 162

Candidate Starts for Squibbles_58:

(69, 52584), (81, 52533), (103, 52482), (121, 52428), (131, 52398), (Start: 143 @52365 has 3 MA's), (149, 52356), (Start: 162 @52329 has 28 MA's), (227, 52161), (235, 52119), (254, 52071), (258, 52059), (262, 52047), (263, 52041), (269, 52020), (285, 51993), (377, 51852), (402, 51765), (403, 51750), (405, 51738), (411, 51708), (422, 51657), (430, 51630), (447, 51579), (459, 51537), (465, 51519), (466, 51516), (472, 51489), (487, 51447), (503, 51402), (585, 51267), (589, 51252), (595, 51231), (634, 51174), (643, 51147), (657, 51090), (658, 51084), (659, 51078), (660, 51072), (675, 51021), (680, 50997), (687, 50958), (690, 50946), (691, 50943), (718, 50850), (727, 50835), (737, 50814),

Gene: Srilaccoli3_51 Start: 49904, Stop: 48411, Start Num: 190

Candidate Starts for Srilaccoli3_51:

(Start: 190 @49904 has 3 MA's), (Start: 205 @49868 has 5 MA's), (213, 49835), (Start: 215 @49826 has 28 MA's), (217, 49817), (220, 49808), (223, 49799), (227, 49781), (245, 49721), (254, 49709), (257, 49700), (354, 49553), (380, 49472), (446, 49220), (447, 49217), (459, 49175), (466, 49154), (475, 49115), (479, 49103), (480, 49100), (501, 49070), (582, 48923), (593, 48887), (660, 48674), (672, 48632), (684, 48566), (704, 48491), (709, 48476),

Gene: StAB_50 Start: 39824, Stop: 41185, Start Num: 206

Candidate Starts for StAB_50:

(Start: 206 @39824 has 7 MA's), (Start: 225 @39893 has 1 MA's), (228, 39911), (261, 40004), (281, 40058), (283, 40064), (286, 40070), (287, 40073), (373, 40193), (379, 40211), (406, 40328), (464, 40466), (475, 40505), (490, 40538), (492, 40544), (499, 40559), (506, 40598), (532, 40658), (584, 40718), (616, 40793), (643, 40874), (666, 40970), (684, 41051), (687, 41057), (690, 41069), (697, 41099),

Gene: StarStruck_73 Start: 56760, Stop: 54685, Start Num: 35

Candidate Starts for StarStruck_73:

(Start: 35 @56760 has 34 MA's), (72, 56640), (Start: 90 @56595 has 4 MA's), (Start: 92 @56592 has 2 MA's), (201, 56349), (224, 56292), (235, 56241), (262, 56187), (281, 56124), (318, 56034), (320, 56031), (326, 56007), (342, 55971), (388, 55815), (398, 55791), (427, 55668), (461, 55557), (468, 55533), (500, 55434), (515, 55380), (538, 55326), (556, 55284), (583, 55245), (601, 55176), (604, 55143), (617, 55107), (633, 55062), (634, 55050), (649, 54990), (666, 54927), (684, 54846), (707, 54762),

Gene: SteveFrench_58 Start: 52481, Stop: 50949, Start Num: 162

Candidate Starts for SteveFrench_58:

(69, 52736), (81, 52685), (121, 52580), (131, 52550), (Start: 143 @52517 has 3 MA's), (149, 52508), (Start: 162 @52481 has 28 MA's), (Start: 215 @52358 has 28 MA's), (227, 52313), (235, 52271), (254, 52223), (255, 52220), (257, 52214), (258, 52211), (263, 52193), (269, 52172), (285, 52145), (371, 52022), (377, 52004), (402, 51917), (403, 51902), (422, 51809), (447, 51731), (456, 51707), (465, 51671), (472, 51641), (487, 51599), (503, 51554), (585, 51419), (589, 51404), (595, 51383), (643, 51299), (657, 51242), (658, 51236), (660, 51224), (675, 51173), (680, 51149), (687, 51110), (690, 51098), (691, 51095), (718, 51002), (727, 50987),

Gene: Stewart25555_92 Start: 77330, Stop: 79183, Start Num: 59

Candidate Starts for Stewart25555_92:

(Start: 59 @77330 has 12 MA's), (167, 77603), (227, 77708), (235, 77744), (250, 77774), (273, 77843), (275, 77852), (292, 77897), (365, 78023), (411, 78236), (424, 78281), (450, 78341), (463, 78386), (500, 78449), (506, 78482), (512, 78494), (516, 78506), (569, 78623), (594, 78692), (617, 78752), (643, 78836), (660, 78908), (666, 78929), (673, 78953), (713, 79121), (714, 79124),

Gene: Sticker17_57 Start: 52601, Stop: 51189, Start Num: 215

Candidate Starts for Sticker17_57:

(69, 52949), (112, 52820), (142, 52733), (Start: 143 @52730 has 3 MA's), (Start: 215 @52601 has 28 MA's), (227, 52556), (254, 52466), (255, 52463), (257, 52457), (263, 52436), (292, 52373), (371, 52265), (377, 52247), (402, 52160), (403, 52145), (411, 52103), (431, 52022), (447, 51974), (459, 51932), (465, 51914), (466, 51911), (472, 51884), (491, 51833), (503, 51797), (524, 51746), (585, 51662), (591, 51641), (657, 51485), (658, 51479), (660, 51467), (690, 51341), (727, 51227),

Gene: Stickynote_71 Start: 52712, Stop: 50787, Start Num: 65

Candidate Starts for Stickynote_71:

(32, 52805), (Start: 65 @52712 has 8 MA's), (128, 52541), (150, 52487), (235, 52283), (297, 52127), (318, 52076), (320, 52073), (332, 52031), (369, 51944), (370, 51941), (385, 51869), (390, 51860), (500, 51503), (506, 51470), (531, 51413), (634, 51131), (651, 51065), (655, 51053), (659, 51035),

(660, 51029), (666, 51008), (681, 50945), (689, 50912), (699, 50873),

Gene: Stiles_49 Start: 38782, Stop: 40143, Start Num: 206

Candidate Starts for Stiles_49:

(Start: 206 @38782 has 7 MA's), (226, 38857), (227, 38863), (228, 38869), (261, 38962), (281, 39016), (283, 39022), (286, 39028), (287, 39031), (373, 39151), (379, 39169), (406, 39286), (464, 39424), (475, 39463), (490, 39496), (492, 39502), (499, 39517), (506, 39556), (532, 39616), (616, 39751), (643, 39832), (666, 39928), (684, 40009), (687, 40015), (690, 40027), (697, 40057),

Gene: Stormer_61 Start: 39106, Stop: 41022, Start Num: 53

Candidate Starts for Stormer_61:

(Start: 53 @39106 has 13 MA's), (Start: 54 @39109 has 63 MA's), (Start: 66 @39121 has 2 MA's), (78, 39169), (93, 39202), (155, 39361), (173, 39388), (178, 39397), (214, 39469), (255, 39589), (274, 39652), (314, 39742), (322, 39769), (368, 39898), (376, 39922), (383, 39964), (385, 39976), (393, 39991), (400, 40012), (403, 40033), (406, 40054), (423, 40111), (427, 40129), (445, 40165), (458, 40207), (476, 40267), (506, 40363), (508, 40366), (598, 40543), (613, 40594), (642, 40684), (649, 40720), (651, 40726), (665, 40780), (677, 40819), (699, 40921), (703, 40936), (709, 40957),

Gene: Studio_40 Start: 27739, Stop: 25907, Start Num: 63

Candidate Starts for Studio_40:

(Start: 63 @27739 has 10 MA's), (Start: 79 @27682 has 2 MA's), (175, 27481), (227, 27346), (273, 27211), (281, 27184), (340, 27127), (344, 27112), (361, 27058), (376, 26962), (378, 26956), (380, 26941), (401, 26866), (403, 26848), (406, 26827), (410, 26809), (460, 26665), (463, 26653), (500, 26590), (529, 26518), (558, 26458), (569, 26437), (592, 26371), (594, 26362), (597, 26353), (606, 26335), (607, 26332), (620, 26296), (649, 26188), (652, 26179), (660, 26146), (668, 26119), (680, 26071),

Gene: Stuff_42 Start: 31323, Stop: 32717, Start Num: 209

Candidate Starts for Stuff_42:

(Start: 209 @31323 has 13 MA's), (Start: 211 @31326 has 3 MA's), (227, 31401), (231, 31425), (233, 31431), (254, 31455), (259, 31470), (260, 31473), (261, 31476), (288, 31545), (341, 31560), (356, 31596), (391, 31695), (399, 31716), (409, 31773), (440, 31896), (480, 32031), (492, 32058), (500, 32079), (525, 32157), (538, 32190), (542, 32199), (582, 32241), (607, 32307), (615, 32331), (621, 32349), (629, 32367), (643, 32421), (649, 32451), (663, 32508), (665, 32511), (679, 32559), (686, 32598), (690, 32613), (708, 32682), (713, 32700), (717, 32709),

Gene: Sucha_30 Start: 20665, Stop: 22092, Start Num: 207

Candidate Starts for Sucha_30:

(192, 20644), (Start: 207 @20665 has 19 MA's), (374, 21019), (377, 21022), (381, 21043), (403, 21130), (411, 21172), (497, 21454), (500, 21466), (502, 21487), (513, 21514), (524, 21541), (525, 21544), (535, 21571), (538, 21577), (554, 21613), (615, 21712), (634, 21775), (643, 21796), (657, 21850), (663, 21883), (668, 21895), (679, 21934), (684, 21970), (687, 21976), (690, 21988), (698, 22021), (706, 22051),

Gene: Sukkupi_71 Start: 54175, Stop: 52319, Start Num: 113

Candidate Starts for Sukkupi_71:

(9, 54592), (12, 54574), (17, 54499), (Start: 35 @54400 has 34 MA's), (Start: 113 @54175 has 3 MA's), (235, 53881), (255, 53848), (262, 53827), (277, 53773), (279, 53767), (281, 53764), (318, 53674), (320, 53671), (342, 53611), (388, 53455), (427, 53308), (461, 53200), (468, 53176), (500, 53074), (515, 53020), (522, 53005), (556, 52924), (583, 52885), (599, 52822), (604, 52783), (607, 52777), (617, 52747), (649, 52630), (666, 52567), (681, 52504), (684, 52486), (707, 52402),

Gene: SuperSonics_79 Start: 49055, Stop: 51088, Start Num: 58

Candidate Starts for SuperSonics_79:

(29, 48965), (Start: 58 @49055 has 8 MA's), (69, 49079), (89, 49142), (115, 49208), (134, 49262), (189, 49370), (202, 49403), (217, 49442), (Start: 225 @49466 has 1 MA's), (243, 49529), (255, 49547), (256, 49550), (262, 49568), (263, 49574), (286, 49643), (296, 49670), (306, 49682), (321, 49715), (350, 49817), (385, 49940), (398, 49970), (423, 50075), (427, 50093), (460, 50183), (461, 50186), (485, 50288), (493, 50327), (497, 50354), (500, 50366), (513, 50414), (519, 50432), (530, 50459), (534, 50471), (538, 50480), (607, 50618), (622, 50663), (648, 50768), (681, 50897), (689, 50930), (694, 50948), (708, 51002), (722, 51041),

Gene: SuperSulley_74 Start: 57198, Stop: 55111, Start Num: 35

Candidate Starts for SuperSulley_74:

(Start: 35 @57198 has 34 MA's), (72, 57078), (Start: 90 @57033 has 4 MA's), (Start: 92 @57030 has 2 MA's), (201, 56775), (235, 56667), (262, 56613), (281, 56550), (318, 56460), (320, 56457), (326, 56433), (342, 56397), (383, 56259), (388, 56241), (393, 56232), (398, 56217), (427, 56094), (453, 56010), (461, 55983), (468, 55959), (500, 55860), (515, 55806), (538, 55752), (556, 55710), (583, 55671), (601, 55602), (604, 55569), (617, 55533), (633, 55488), (634, 55476), (649, 55416), (651, 55410), (666, 55353), (707, 55188), (715, 55164),

Gene: SuperheroCarly_53 Start: 39596, Stop: 41566, Start Num: 43

Candidate Starts for SuperheroCarly_53:

(Start: 43 @39596 has 1 MA's), (46, 39611), (Start: 54 @39623 has 63 MA's), (69, 39650), (94, 39722), (114, 39776), (136, 39836), (145, 39863), (176, 39914), (196, 39956), (214, 39992), (235, 40079), (272, 40172), (277, 40187), (286, 40208), (328, 40310), (340, 40343), (347, 40367), (370, 40427), (393, 40514), (409, 40589), (445, 40679), (461, 40730), (462, 40733), (495, 40823), (500, 40841), (506, 40874), (530, 40928), (534, 40940), (542, 40958), (583, 41021), (604, 41105), (642, 41222), (649, 41270), (666, 41333), (684, 41417),

Gene: Suppi_29 Start: 22165, Stop: 23559, Start Num: 203

Candidate Starts for Suppi_29:

(Start: 203 @22165 has 73 MA's), (220, 22222), (259, 22327), (292, 22414), (374, 22498), (377, 22501), (378, 22504), (402, 22594), (406, 22630), (408, 22639), (410, 22648), (423, 22705), (427, 22723), (440, 22756), (446, 22768), (467, 22837), (474, 22864), (482, 22888), (500, 22930), (506, 22963), (513, 22978), (516, 22987), (578, 23077), (606, 23146), (615, 23173), (621, 23191), (626, 23203), (649, 23293), (651, 23299), (654, 23308), (656, 23314), (663, 23350), (684, 23437), (698, 23488), (709, 23527), (717, 23551),

Gene: Suzy_49 Start: 37573, Stop: 39624, Start Num: 57

Candidate Starts for Suzy_49:

(Start: 57 @37573 has 8 MA's), (95, 37660), (116, 37720), (125, 37744), (138, 37786), (234, 38008), (255, 38044), (319, 38200), (325, 38218), (328, 38239), (330, 38251), (354, 38311), (359, 38326), (368, 38344), (385, 38422), (393, 38437), (394, 38440), (403, 38479), (406, 38500), (461, 38659), (467, 38680), (468, 38683), (473, 38695), (495, 38743), (497, 38749), (499, 38755), (520, 38830), (538, 38872), (552, 38902), (566, 39025), (575, 39058), (578, 39070), (595, 39124), (613, 39196), (617, 39205), (639, 39280), (652, 39334), (665, 39385), (670, 39403), (681, 39451), (683, 39460), (684, 39472), (689, 39487), (700, 39529), (708, 39559),

Gene: TMaxx_39 Start: 26999, Stop: 25191, Start Num: 63

Candidate Starts for TMaxx_39:

(45, 27044), (Start: 63 @26999 has 10 MA's), (Start: 79 @26939 has 2 MA's), (111, 26876), (175, 26738), (227, 26609), (257, 26525), (340, 26387), (380, 26201), (403, 26108), (406, 26087), (463, 25916), (468, 25901), (500, 25853), (537, 25784), (540, 25778), (546, 25763), (569, 25724), (572, 25715), (591, 25661), (592, 25658), (597, 25640), (606, 25622), (652, 25466), (660, 25433), (668, 25406), (674, 25385), (700, 25268), (714, 25217),

Gene: Talia1610_101 Start: 80103, Stop: 81941, Start Num: 59

Candidate Starts for Talia1610_101:

(Start: 59 @80103 has 12 MA's), (84, 80184), (120, 80262), (167, 80358), (Start: 215 @80418 has 28 MA's), (224, 80448), (263, 80568), (278, 80619), (338, 80679), (420, 81018), (443, 81075), (450, 81096), (463, 81141), (499, 81198), (500, 81204), (506, 81237), (512, 81249), (516, 81261), (534, 81306), (552, 81345), (579, 81402), (581, 81408), (592, 81441), (617, 81510), (643, 81594), (673, 81711), (716, 81885), (736, 81927),

Gene: Talos_127 Start: 67581, Stop: 69077, Start Num: 225

Candidate Starts for Talos_127:

(Start: 207 @67509 has 19 MA's), (216, 67554), (Start: 225 @67581 has 1 MA's), (226, 67587), (229, 67611), (258, 67677), (292, 67758), (354, 67824), (375, 67881), (378, 67890), (379, 67899), (396, 67953), (409, 68028), (435, 68130), (441, 68151), (443, 68154), (458, 68205), (459, 68214), (463, 68229), (467, 68241), (480, 68289), (488, 68304), (498, 68325), (607, 68574), (611, 68586), (620, 68610), (632, 68646), (638, 68679), (645, 68697), (668, 68802), (693, 68922), (694, 68934), (709, 68991), (712, 69003), (714, 69009), (737, 69057),

Gene: TattModd_29 Start: 22150, Stop: 23550, Start Num: 203

Candidate Starts for TattModd_29:

(Start: 203 @22150 has 73 MA's), (220, 22213), (259, 22318), (260, 22321), (292, 22405), (350, 22438), (374, 22489), (378, 22495), (399, 22576), (400, 22579), (402, 22585), (406, 22621), (410, 22639), (411, 22642), (417, 22675), (423, 22696), (427, 22714), (440, 22747), (467, 22828), (474, 22855), (486, 22885), (490, 22894), (500, 22921), (506, 22954), (513, 22969), (535, 23023), (544, 23044), (550, 23056), (578, 23068), (651, 23290), (654, 23299), (656, 23305), (663, 23341), (680, 23401), (684, 23428), (709, 23518),

Gene: Teal_57 Start: 53068, Stop: 51656, Start Num: 215

Candidate Starts for Teal_57:

(69, 53416), (112, 53287), (142, 53200), (Start: 143 @53197 has 3 MA's), (Start: 215 @53068 has 28 MA's), (227, 53023), (254, 52933), (255, 52930), (257, 52924), (263, 52903), (292, 52840), (371, 52732), (377, 52714), (402, 52627), (403, 52612), (411, 52570), (431, 52489), (447, 52441), (459, 52399), (465, 52381), (466, 52378), (472, 52351), (491, 52300), (503, 52264), (524, 52213), (585, 52129), (591, 52108), (657, 51952), (658, 51946), (660, 51934), (690, 51808), (727, 51694),

Gene: Teatealatte_58 Start: 53221, Stop: 51518, Start Num: 86

Candidate Starts for Teatealatte_58:

(Start: 86 @53221 has 9 MA's), (Start: 92 @53209 has 2 MA's), (168, 53026), (Start: 215 @52936 has 28 MA's), (217, 52927), (227, 52891), (229, 52867), (232, 52858), (235, 52849), (254, 52801), (258, 52789), (262, 52777), (286, 52720), (292, 52705), (333, 52702), (342, 52684), (352, 52648), (353, 52645), (395, 52516), (396, 52513), (403, 52477), (404, 52474), (406, 52456), (408, 52447), (411, 52435), (421, 52387), (431, 52354), (447, 52306), (456, 52282), (472, 52216), (503, 52117), (547, 52018), (583, 51985), (585, 51982), (623, 51916), (641, 51865), (643, 51862), (657, 51805), (660, 51787), (687, 51670), (688, 51667), (691, 51655), (727, 51556), (737, 51535),

Gene: Tedro_40 Start: 25407, Stop: 27314, Start Num: 60

Candidate Starts for Tedro_40:

(Start: 60 @25407 has 35 MA's), (85, 25470), (97, 25491), (115, 25545), (202, 25722), (219, 25767), (276, 25941), (279, 25950), (318, 26040), (331, 26097), (384, 26283), (423, 26418), (425, 26430), (444, 26463), (458, 26508), (500, 26592), (542, 26709), (643, 26982), (649, 27018), (650, 27021), (665, 27081), (685, 27171), (694, 27201), (704, 27243), (722, 27294),

Gene: Teech_58 Start: 53022, Stop: 51319, Start Num: 86

Candidate Starts for Teech_58:

(Start: 86 @53022 has 9 MA's), (Start: 92 @53010 has 2 MA's), (168, 52827), (Start: 215 @52737 has 28 MA's), (217, 52728), (227, 52692), (229, 52668), (232, 52659), (235, 52650), (254, 52602), (262, 52578), (292, 52506), (342, 52485), (352, 52449), (353, 52446), (395, 52317), (396, 52314), (403, 52278), (404, 52275), (406, 52257), (408, 52248), (411, 52236), (421, 52188), (431, 52155), (447, 52107), (456, 52083), (472, 52017), (503, 51918), (547, 51819), (552, 51810), (583, 51786), (585, 51783), (623, 51717), (641, 51666), (643, 51663), (657, 51606), (660, 51588), (687, 51471), (688, 51468), (691, 51456), (727, 51357), (737, 51336),

Gene: Temper16_26 Start: 21732, Stop: 23129, Start Num: 203

Candidate Starts for Temper16_26:

(Start: 203 @21732 has 73 MA's), (220, 21792), (252, 21879), (259, 21897), (260, 21900), (292, 21984), (336, 21990), (350, 22017), (374, 22068), (378, 22074), (386, 22125), (391, 22134), (399, 22155), (402, 22164), (406, 22200), (411, 22221), (417, 22254), (423, 22275), (427, 22293), (430, 22299), (440, 22326), (446, 22338), (451, 22353), (467, 22407), (482, 22458), (486, 22464), (490, 22473), (492, 22479), (500, 22500), (506, 22533), (513, 22548), (516, 22557), (591, 22680), (607, 22719), (615, 22743), (620, 22755), (649, 22863), (651, 22869), (654, 22878), (656, 22884), (663, 22920), (684, 23007), (709, 23097), (717, 23121),

Gene: Terapin_51 Start: 36616, Stop: 38670, Start Num: 57

Candidate Starts for Terapin_51:

(Start: 57 @36616 has 8 MA's), (70, 36640), (95, 36703), (125, 36787), (138, 36829), (234, 37051), (255, 37087), (279, 37162), (294, 37201), (319, 37243), (325, 37261), (328, 37282), (330, 37294), (354, 37354), (359, 37369), (368, 37387), (385, 37465), (393, 37480), (394, 37483), (403, 37522), (406, 37543), (444, 37645), (461, 37702), (467, 37723), (468, 37726), (473, 37738), (495, 37786), (497, 37792), (508, 37840), (520, 37873), (531, 37897), (538, 37915), (552, 37945), (566, 38068), (575, 38101), (578, 38113), (583, 38128), (595, 38167), (604, 38212), (613, 38239), (639, 38323), (655, 38386), (665, 38428), (668, 38437), (670, 38446), (681, 38494), (683, 38503), (684, 38515), (689, 38530), (700, 38572),

Gene: Theresita_31 Start: 21253, Stop: 22665, Start Num: 207

Candidate Starts for Theresita_31:

(Start: 207 @21253 has 19 MA's), (255, 21397), (261, 21415), (339, 21505), (396, 21664), (400, 21682), (402, 21688), (403, 21703), (406, 21724), (411, 21745), (471, 21955), (480, 21991), (500, 22039), (502, 22060), (506, 22072), (513, 22087), (524, 22114), (530, 22129), (554, 22186), (607, 22261), (615, 22285), (626, 22315), (630, 22327), (643, 22369), (649, 22399), (663, 22456), (668, 22468), (687, 22549), (688, 22552), (694, 22576), (698, 22594), (706, 22624),

Gene: Thoth_53 Start: 39727, Stop: 41670, Start Num: 54

Candidate Starts for Thoth_53:

(Start: 54 @39727 has 63 MA's), (69, 39754), (94, 39826), (114, 39880), (136, 39940), (141, 39958), (145, 39967), (176, 40018), (196, 40060), (214, 40096), (235, 40183), (272, 40276), (277, 40291), (286, 40312), (328, 40414), (340, 40447), (347, 40471), (370, 40531), (393, 40618), (409, 40693), (445, 40783), (461, 40834), (462, 40837), (495, 40927), (500, 40945), (506, 40978), (530, 41032), (534, 41044), (542, 41062), (583, 41125), (604, 41209), (642, 41326), (649, 41374), (666, 41437), (684, 41521),

Gene: Thumb_62 Start: 46085, Stop: 48142, Start Num: 54

Candidate Starts for Thumb_62:

(Start: 54 @46085 has 63 MA's), (76, 46145), (77, 46148), (Start: 113 @46241 has 3 MA's), (116, 46253), (124, 46274), (182, 46397), (184, 46400), (189, 46409), (202, 46442), (208, 46463), (217, 46511), (255, 46616), (262, 46637), (263, 46643), (279, 46697), (350, 46883), (354, 46895), (361, 46913), (368, 46928), (370, 46934), (461, 47252), (462, 47255), (476, 47300), (497, 47351), (500,

47363), (530, 47453), (534, 47465), (548, 47498), (561, 47522), (577, 47531), (607, 47621), (618, 47654), (648, 47765), (649, 47768), (650, 47771), (651, 47774), (665, 47828), (681, 47894), (684, 47912), (738, 48089),

Gene: Tillicus_56 Start: 39985, Stop: 41907, Start Num: 55

Candidate Starts for Tillicus_56:

(20, 39862), (23, 39883), (30, 39904), (42, 39934), (47, 39967), (Start: 53 @39979 has 13 MA's), (Start: 55 @39985 has 1 MA's), (Start: 66 @40003 has 2 MA's), (69, 40015), (78, 40051), (93, 40084), (95, 40087), (Start: 113 @40135 has 3 MA's), (117, 40153), (155, 40243), (166, 40261), (173, 40270), (178, 40279), (214, 40351), (255, 40471), (256, 40474), (274, 40534), (282, 40552), (314, 40624), (322, 40651), (370, 40786), (376, 40804), (383, 40846), (390, 40867), (393, 40873), (403, 40915), (406, 40936), (411, 40957), (423, 40993), (445, 41050), (449, 41062), (458, 41092), (460, 41101), (476, 41152), (506, 41248), (508, 41251), (579, 41362), (594, 41410), (604, 41452), (613, 41479), (639, 41563), (660, 41647), (665, 41665), (672, 41689), (677, 41704), (684, 41752), (689, 41767), (699, 41806), (703, 41821), (709, 41842), (735, 41899),

Gene: TinyMiny_42 Start: 26527, Stop: 28557, Start Num: 28

Candidate Starts for TinyMiny_42:

(14, 26383), (Start: 28 @26527 has 1 MA's), (Start: 58 @26617 has 8 MA's), (Start: 62 @26623 has 6 MA's), (115, 26770), (120, 26788), (124, 26797), (202, 26947), (243, 27073), (276, 27163), (279, 27172), (318, 27262), (329, 27304), (376, 27466), (425, 27652), (436, 27670), (444, 27685), (461, 27742), (480, 27802), (517, 27874), (587, 28012), (602, 28078), (606, 28108), (633, 28186), (650, 28264), (665, 28324), (677, 28363), (685, 28414), (691, 28432), (724, 28540),

Gene: Tongui_40 Start: 25537, Stop: 27444, Start Num: 60

Candidate Starts for Tongui_40:

(18, 25363), (Start: 60 @25537 has 35 MA's), (85, 25600), (97, 25621), (115, 25675), (138, 25735), (194, 25837), (202, 25852), (219, 25897), (276, 26071), (279, 26080), (318, 26170), (320, 26173), (331, 26227), (384, 26413), (412, 26521), (423, 26548), (425, 26560), (500, 26722), (542, 26839), (650, 27151), (665, 27211), (685, 27301), (694, 27331), (704, 27373), (722, 27424),

Gene: Tracker_72 Start: 55556, Stop: 53490, Start Num: 35

Candidate Starts for Tracker_72:

(8, 55760), (9, 55748), (12, 55730), (Start: 35 @55556 has 34 MA's), (Start: 79 @55418 has 2 MA's), (88, 55394), (178, 55190), (201, 55145), (235, 55037), (279, 54923), (281, 54920), (318, 54830), (320, 54827), (342, 54767), (383, 54629), (388, 54611), (398, 54587), (427, 54464), (461, 54359), (500, 54233), (515, 54179), (580, 54053), (583, 54044), (591, 54020), (604, 53948), (607, 53942), (617, 53912), (634, 53855), (649, 53795), (666, 53732), (684, 53651),

Gene: Tredge_57 Start: 53221, Stop: 51518, Start Num: 86

Candidate Starts for Tredge_57:

(Start: 86 @53221 has 9 MA's), (Start: 92 @53209 has 2 MA's), (168, 53026), (Start: 215 @52936 has 28 MA's), (217, 52927), (227, 52891), (229, 52867), (232, 52858), (235, 52849), (254, 52801), (258, 52789), (262, 52777), (286, 52720), (292, 52705), (333, 52702), (342, 52684), (352, 52648), (353, 52645), (395, 52516), (396, 52513), (403, 52477), (404, 52474), (406, 52456), (408, 52447), (411, 52435), (421, 52387), (431, 52354), (447, 52306), (456, 52282), (472, 52216), (503, 52117), (547, 52018), (583, 51985), (585, 51982), (623, 51916), (641, 51865), (643, 51862), (657, 51805), (660, 51787), (687, 51670), (688, 51667), (691, 51655), (727, 51556), (737, 51535),

Gene: TripleC_38 Start: 29350, Stop: 27542, Start Num: 63

Candidate Starts for TripleC_38:

(45, 29395), (Start: 63 @29350 has 10 MA's), (Start: 79 @29290 has 2 MA's), (136, 29167), (175, 29089), (Start: 225 @28972 has 1 MA's), (227, 28960), (257, 28876), (340, 28738), (380, 28552), (403,

28459), (406, 28438), (443, 28333), (463, 28267), (468, 28252), (500, 28204), (537, 28135), (539, 28132), (540, 28129), (546, 28114), (569, 28075), (572, 28066), (579, 28048), (591, 28012), (592, 28009), (597, 27991), (606, 27973), (607, 27970), (618, 27937), (652, 27817), (660, 27784), (668, 27757), (680, 27709), (700, 27619), (714, 27568),

Gene: Trogglehumper_76 Start: 59717, Stop: 58170, Start Num: 169

Candidate Starts for Trogglehumper_76:

(123, 59828), (147, 59762), (Start: 169 @59717 has 1 MA's), (218, 59600), (227, 59567), (238, 59525), (240, 59519), (254, 59495), (279, 59429), (283, 59420), (285, 59417), (346, 59354), (359, 59315), (380, 59249), (401, 59183), (403, 59165), (405, 59153), (408, 59135), (418, 59087), (419, 59081), (447, 59003), (459, 58961), (465, 58943), (480, 58886), (484, 58877), (543, 58751), (583, 58709), (585, 58706), (591, 58685), (606, 58652), (628, 58595), (660, 58445), (667, 58421), (680, 58370), (700, 58280), (710, 58241), (718, 58220), (725, 58208), (727, 58205), (735, 58193),

Gene: Troll4_53 Start: 39859, Stop: 41802, Start Num: 54

Candidate Starts for Troll4_53:

(Start: 54 @39859 has 63 MA's), (69, 39886), (94, 39958), (114, 40012), (136, 40072), (141, 40090), (145, 40099), (176, 40150), (196, 40192), (214, 40228), (235, 40315), (272, 40408), (277, 40423), (286, 40444), (328, 40546), (340, 40579), (347, 40603), (370, 40663), (393, 40750), (409, 40825), (445, 40915), (461, 40966), (462, 40969), (495, 41059), (500, 41077), (506, 41110), (530, 41164), (534, 41176), (542, 41194), (583, 41257), (604, 41341), (642, 41458), (649, 41506), (666, 41569), (684, 41653),

Gene: Troy_45 Start: 36746, Stop: 38122, Start Num: 206

Candidate Starts for Troy_45:

(Start: 206 @36746 has 7 MA's), (Start: 225 @36815 has 1 MA's), (228, 36833), (261, 36926), (283, 36986), (286, 36992), (287, 36995), (373, 37115), (379, 37133), (406, 37250), (464, 37388), (475, 37427), (490, 37460), (492, 37466), (499, 37481), (506, 37520), (532, 37580), (542, 37604), (584, 37640), (613, 37709), (616, 37715), (643, 37796), (666, 37892), (669, 37904), (673, 37916), (684, 37973), (687, 37979), (690, 37991), (697, 38021), (711, 38072),

Gene: TurboVicky_33 Start: 23252, Stop: 24679, Start Num: 207

Candidate Starts for TurboVicky_33:

(188, 23210), (Start: 207 @23252 has 19 MA's), (361, 23570), (403, 23717), (406, 23738), (480, 24005), (500, 24053), (502, 24074), (525, 24131), (538, 24164), (554, 24200), (608, 24278), (615, 24299), (642, 24380), (643, 24383), (663, 24470), (668, 24482), (679, 24521), (684, 24557), (687, 24563), (690, 24575), (706, 24638),

Gene: Turuncu_75 Start: 56841, Stop: 54784, Start Num: 35

Candidate Starts for Turuncu_75:

(6, 57126), (11, 57009), (15, 56991), (Start: 35 @56841 has 34 MA's), (235, 56328), (262, 56274), (272, 56238), (281, 56211), (315, 56133), (318, 56121), (342, 56058), (343, 56052), (377, 55959), (383, 55920), (388, 55902), (427, 55755), (441, 55722), (451, 55692), (453, 55686), (461, 55659), (500, 55536), (522, 55467), (530, 55449), (583, 55344), (586, 55335), (601, 55275), (607, 55236), (617, 55206), (624, 55188), (634, 55149), (649, 55089), (658, 55059), (666, 55026), (678, 54984), (719, 54828),

Gene: Typher_35 Start: 23381, Stop: 24808, Start Num: 207

Candidate Starts for Typher_35:

(188, 23339), (Start: 207 @23381 has 19 MA's), (361, 23699), (391, 23801), (403, 23846), (406, 23867), (480, 24134), (500, 24182), (502, 24203), (525, 24260), (538, 24293), (554, 24329), (608, 24407), (615, 24428), (642, 24509), (643, 24512), (663, 24599), (668, 24611), (679, 24650), (684, 24686), (690, 24704), (706, 24767),

Gene: UNTPL_44 Start: 31380, Stop: 32774, Start Num: 209

Candidate Starts for UNTPL_44:

(Start: 209 @31380 has 13 MA's), (Start: 211 @31383 has 3 MA's), (227, 31458), (231, 31482), (254, 31512), (259, 31527), (341, 31617), (356, 31653), (391, 31752), (395, 31761), (409, 31830), (440, 31953), (480, 32088), (492, 32115), (500, 32136), (525, 32214), (538, 32247), (542, 32256), (582, 32298), (607, 32364), (615, 32388), (621, 32406), (629, 32424), (643, 32478), (649, 32508), (663, 32565), (665, 32568), (679, 32616), (686, 32655), (690, 32670), (708, 32739), (713, 32757), (717, 32766),

Gene: Urla_26 Start: 21745, Stop: 23142, Start Num: 203

Candidate Starts for Urla_26:

(Start: 203 @21745 has 73 MA's), (220, 21805), (259, 21910), (292, 21997), (350, 22030), (374, 22081), (378, 22087), (399, 22168), (402, 22177), (406, 22213), (410, 22231), (411, 22234), (417, 22267), (423, 22288), (453, 22369), (467, 22420), (474, 22447), (486, 22477), (490, 22486), (499, 22507), (500, 22513), (506, 22546), (513, 22561), (516, 22570), (538, 22621), (552, 22651), (607, 22732), (621, 22774), (633, 22807), (647, 22870), (654, 22891), (656, 22897), (659, 22912), (663, 22933), (684, 23020), (700, 23077), (709, 23110),

Gene: Vallejo_29 Start: 22089, Stop: 23489, Start Num: 203

Candidate Starts for Vallejo_29:

(Start: 203 @22089 has 73 MA's), (220, 22152), (259, 22257), (260, 22260), (292, 22344), (350, 22377), (374, 22428), (378, 22434), (399, 22515), (400, 22518), (402, 22524), (406, 22560), (410, 22578), (411, 22581), (417, 22614), (423, 22635), (427, 22653), (440, 22686), (467, 22767), (474, 22794), (486, 22824), (490, 22833), (500, 22860), (506, 22893), (513, 22908), (535, 22962), (544, 22983), (550, 22995), (578, 23007), (651, 23229), (654, 23238), (656, 23244), (663, 23280), (680, 23340), (684, 23367), (709, 23457),

Gene: Virizion_75 Start: 50499, Stop: 48628, Start Num: 64

Candidate Starts for Virizion_75:

(Start: 54 @50514 has 63 MA's), (64, 50499), (85, 50436), (89, 50427), (132, 50322), (148, 50283), (159, 50259), (202, 50184), (214, 50160), (264, 50001), (276, 49962), (279, 49953), (323, 49845), (358, 49737), (370, 49689), (400, 49584), (408, 49533), (425, 49473), (454, 49407), (460, 49386), (461, 49383), (506, 49278), (511, 49269), (515, 49257), (580, 49158), (613, 49041), (618, 49029), (629, 49002), (650, 48912), (655, 48897), (668, 48843), (681, 48786), (709, 48678), (715, 48660),

Gene: Visconti_54 Start: 39739, Stop: 41682, Start Num: 54

Candidate Starts for Visconti_54:

(Start: 54 @39739 has 63 MA's), (69, 39766), (94, 39838), (114, 39892), (136, 39952), (141, 39970), (145, 39979), (176, 40030), (196, 40072), (214, 40108), (235, 40195), (272, 40288), (277, 40303), (286, 40324), (328, 40426), (340, 40459), (347, 40483), (370, 40543), (393, 40630), (409, 40705), (445, 40795), (461, 40846), (462, 40849), (495, 40939), (500, 40957), (506, 40990), (530, 41044), (534, 41056), (542, 41074), (583, 41137), (604, 41221), (642, 41338), (649, 41386), (666, 41449), (684, 41533),

Gene: Vitaenoi_57 Start: 53928, Stop: 52234, Start Num: 86

Candidate Starts for Vitaenoi_57:

(Start: 86 @53928 has 9 MA's), (Start: 92 @53916 has 2 MA's), (Start: 135 @53796 has 1 MA's), (153, 53763), (168, 53733), (217, 53634), (227, 53598), (229, 53574), (232, 53565), (235, 53556), (254, 53508), (255, 53505), (257, 53499), (258, 53496), (346, 53373), (353, 53352), (375, 53292), (396, 53220), (402, 53199), (403, 53184), (404, 53181), (405, 53172), (447, 53013), (462, 52962), (466, 52950), (467, 52944), (472, 52923), (489, 52878), (503, 52833), (521, 52791), (547, 52734), (582, 52704), (583, 52701), (585, 52698), (619, 52644), (657, 52521), (660, 52503), (687, 52386), (688,

52383), (691, 52371), (737, 52251),

Gene: Vulture_26 Start: 21745, Stop: 23139, Start Num: 203

Candidate Starts for Vulture_26:

(Start: 203 @21745 has 73 MA's), (220, 21802), (252, 21889), (259, 21907), (260, 21910), (292, 21994), (350, 22027), (374, 22078), (378, 22084), (391, 22144), (402, 22174), (406, 22210), (410, 22228), (417, 22264), (423, 22285), (427, 22303), (430, 22309), (440, 22336), (467, 22417), (474, 22444), (482, 22468), (490, 22483), (500, 22510), (506, 22543), (513, 22558), (606, 22726), (615, 22753), (620, 22765), (626, 22783), (649, 22873), (651, 22879), (656, 22894), (657, 22897), (663, 22930), (680, 22990), (684, 23017), (700, 23074), (709, 23107), (717, 23131),

Gene: WaddleDee_88 Start: 75744, Stop: 77588, Start Num: 59

Candidate Starts for WaddleDee_88:

(Start: 59 @75744 has 12 MA's), (167, 76017), (227, 76125), (250, 76191), (273, 76260), (275, 76269), (340, 76344), (411, 76653), (424, 76698), (443, 76737), (450, 76758), (463, 76803), (499, 76860), (500, 76866), (506, 76899), (512, 76911), (516, 76923), (569, 77040), (571, 77046), (606, 77136), (617, 77169), (643, 77253), (666, 77346), (673, 77370), (713, 77538), (714, 77541),

Gene: WaldoWhy_55 Start: 39836, Stop: 41779, Start Num: 54

Candidate Starts for WaldoWhy_55:

(Start: 54 @39836 has 63 MA's), (69, 39863), (94, 39935), (114, 39989), (136, 40049), (141, 40067), (145, 40076), (176, 40127), (196, 40169), (214, 40205), (235, 40292), (272, 40385), (277, 40400), (286, 40421), (328, 40523), (340, 40556), (347, 40580), (370, 40640), (393, 40727), (409, 40802), (445, 40892), (461, 40943), (462, 40946), (495, 41036), (500, 41054), (506, 41087), (530, 41141), (534, 41153), (542, 41171), (583, 41234), (604, 41318), (642, 41435), (649, 41483), (666, 41546), (684, 41630),

Gene: Wawa_29 Start: 22126, Stop: 23526, Start Num: 203

Candidate Starts for Wawa_29:

(Start: 203 @22126 has 73 MA's), (220, 22189), (259, 22294), (260, 22297), (292, 22381), (350, 22414), (374, 22465), (378, 22471), (399, 22552), (400, 22555), (402, 22561), (406, 22597), (410, 22615), (411, 22618), (417, 22651), (423, 22672), (427, 22690), (440, 22723), (467, 22804), (474, 22831), (486, 22861), (490, 22870), (500, 22897), (506, 22930), (513, 22945), (535, 22999), (544, 23020), (550, 23032), (578, 23044), (621, 23158), (651, 23266), (654, 23275), (656, 23281), (663, 23317), (680, 23377), (684, 23404), (709, 23494),

Gene: Wayne_29 Start: 22211, Stop: 23605, Start Num: 203

Candidate Starts for Wayne_29:

(Start: 203 @22211 has 73 MA's), (220, 22268), (259, 22373), (292, 22460), (374, 22544), (377, 22547), (378, 22550), (402, 22640), (406, 22676), (408, 22685), (410, 22694), (423, 22751), (427, 22769), (440, 22802), (446, 22814), (467, 22883), (474, 22910), (482, 22934), (500, 22976), (506, 23009), (513, 23024), (516, 23033), (578, 23123), (606, 23192), (615, 23219), (621, 23237), (626, 23249), (649, 23339), (651, 23345), (654, 23354), (656, 23360), (663, 23396), (684, 23483), (698, 23534), (709, 23573), (717, 23597),

Gene: Weiss13_66 Start: 47645, Stop: 49405, Start Num: 191

Candidate Starts for Weiss13_66:

(Start: 191 @47645 has 9 MA's), (218, 47714), (251, 47810), (256, 47819), (280, 47900), (300, 47945), (368, 48146), (382, 48194), (398, 48254), (402, 48266), (413, 48332), (454, 48455), (461, 48479), (468, 48503), (500, 48707), (506, 48740), (513, 48755), (530, 48794), (531, 48797), (534, 48806), (583, 48875), (622, 49007), (649, 49130), (650, 49133), (658, 49160), (665, 49190), (667, 49196), (668, 49199), (673, 49217), (677, 49229), (709, 49364), (720, 49394),

Gene: Wentworth_70 Start: 50269, Stop: 48383, Start Num: 54

Candidate Starts for Wentworth_70:

(34, 50335), (Start: 39 @50326 has 1 MA's), (44, 50305), (Start: 53 @50272 has 13 MA's), (Start: 54 @50269 has 63 MA's), (64, 50254), (85, 50191), (89, 50182), (97, 50170), (Start: 113 @50122 has 3 MA's), (124, 50089), (132, 50077), (138, 50056), (159, 50014), (202, 49939), (214, 49915), (276, 49717), (279, 49708), (299, 49663), (323, 49600), (358, 49492), (370, 49444), (400, 49339), (408, 49288), (425, 49228), (460, 49141), (461, 49138), (506, 49033), (511, 49024), (515, 49012), (580, 48913), (613, 48796), (618, 48784), (629, 48757), (630, 48751), (650, 48667), (668, 48598), (681, 48541), (684, 48523), (699, 48469), (715, 48415),

Gene: Wheezy_72 Start: 55632, Stop: 53704, Start Num: 79

Candidate Starts for Wheezy_72:

(8, 55974), (9, 55962), (12, 55944), (Start: 35 @55770 has 34 MA's), (Start: 79 @55632 has 2 MA's), (88, 55608), (178, 55404), (201, 55359), (235, 55251), (279, 55137), (281, 55134), (318, 55044), (320, 55041), (342, 54981), (383, 54843), (388, 54825), (398, 54801), (427, 54678), (461, 54573), (500, 54447), (515, 54393), (580, 54267), (583, 54258), (591, 54234), (604, 54162), (607, 54156), (617, 54126), (634, 54069), (649, 54009), (666, 53946), (684, 53865),

Gene: WhoseManz_71 Start: 52415, Stop: 50334, Start Num: 35

Candidate Starts for WhoseManz_71:

(9, 52607), (12, 52589), (17, 52514), (Start: 35 @52415 has 34 MA's), (235, 51896), (255, 51863), (262, 51842), (277, 51788), (279, 51782), (281, 51779), (318, 51689), (320, 51686), (342, 51626), (388, 51470), (427, 51323), (461, 51215), (468, 51191), (500, 51089), (515, 51035), (522, 51020), (556, 50939), (583, 50900), (599, 50837), (604, 50798), (607, 50792), (617, 50762), (649, 50645), (666, 50582), (681, 50519), (684, 50501), (707, 50417),

Gene: Wilkos_72 Start: 50432, Stop: 48546, Start Num: 54

Candidate Starts for Wilkos_72:

(25, 50525), (34, 50498), (Start: 39 @50489 has 1 MA's), (44, 50468), (Start: 53 @50435 has 13 MA's), (Start: 54 @50432 has 63 MA's), (64, 50417), (85, 50354), (89, 50345), (97, 50333), (Start: 113 @50285 has 3 MA's), (124, 50252), (132, 50240), (138, 50219), (159, 50177), (202, 50102), (232, 49994), (255, 49949), (276, 49880), (279, 49871), (323, 49763), (370, 49607), (392, 49523), (400, 49502), (408, 49451), (425, 49391), (461, 49301), (478, 49247), (506, 49196), (511, 49187), (515, 49175), (530, 49142), (580, 49076), (618, 48947), (629, 48920), (630, 48914), (650, 48830), (668, 48761), (672, 48746), (681, 48704), (684, 48686), (699, 48632), (715, 48578),

Gene: Woes_57 Start: 53248, Stop: 51707, Start Num: 143

Candidate Starts for Woes_57:

(69, 53467), (112, 53338), (142, 53251), (Start: 143 @53248 has 3 MA's), (Start: 215 @53119 has 28 MA's), (227, 53074), (254, 52984), (255, 52981), (257, 52975), (263, 52954), (292, 52891), (371, 52783), (377, 52765), (402, 52678), (403, 52663), (411, 52621), (431, 52540), (447, 52492), (459, 52450), (465, 52432), (466, 52429), (472, 52402), (491, 52351), (503, 52315), (524, 52264), (585, 52180), (591, 52159), (657, 52003), (658, 51997), (660, 51985), (690, 51859), (727, 51745),

Gene: Wojtek_56 Start: 39665, Stop: 41593, Start Num: 53

Candidate Starts for Wojtek_56:

(23, 39569), (27, 39578), (30, 39590), (42, 39620), (47, 39653), (Start: 53 @39665 has 13 MA's), (Start: 55 @39671 has 1 MA's), (Start: 66 @39689 has 2 MA's), (70, 39704), (78, 39737), (93, 39770), (95, 39773), (117, 39839), (145, 39911), (155, 39929), (166, 39947), (173, 39956), (178, 39965), (214, 40037), (255, 40157), (256, 40160), (274, 40220), (282, 40238), (314, 40310), (322, 40337), (370, 40472), (376, 40490), (383, 40532), (390, 40553), (393, 40559), (403, 40601), (406, 40622), (411, 40643), (423, 40679), (445, 40736), (449, 40748), (458, 40778), (460, 40787), (476, 40838), (506, 40934), (508, 40937), (579, 41048), (604, 41138), (613, 41165), (642, 41255), (660, 41333), (665,

41351), (672, 41375), (677, 41390), (699, 41492), (703, 41507), (709, 41528),

Gene: Wollypog_43 Start: 30596, Stop: 32524, Start Num: 60

Candidate Starts for Wollypog_43:

(Start: 60 @30596 has 35 MA's), (69, 30620), (115, 30746), (136, 30794), (159, 30848), (196, 30911), (202, 30923), (235, 31034), (264, 31100), (265, 31106), (301, 31199), (313, 31229), (318, 31244), (321, 31250), (397, 31514), (406, 31562), (409, 31574), (423, 31619), (451, 31688), (458, 31709), (506, 31829), (534, 31895), (552, 31934), (593, 31997), (652, 32228), (678, 32327), (682, 32354), (704, 32453), (707, 32462),

Gene: WonderBoy_25 Start: 20548, Stop: 21942, Start Num: 203

Candidate Starts for WonderBoy_25:

(Start: 203 @20548 has 73 MA's), (220, 20605), (259, 20710), (292, 20797), (350, 20830), (374, 20881), (378, 20887), (399, 20968), (400, 20971), (402, 20977), (406, 21013), (410, 21031), (411, 21034), (417, 21067), (423, 21088), (467, 21220), (474, 21247), (490, 21286), (499, 21307), (500, 21313), (506, 21346), (513, 21361), (516, 21370), (535, 21415), (552, 21451), (591, 21493), (615, 21556), (621, 21574), (649, 21676), (650, 21679), (656, 21697), (657, 21700), (662, 21724), (663, 21733), (684, 21820), (709, 21910), (717, 21934),

Gene: Worcestershire_59 Start: 51468, Stop: 49936, Start Num: 162

Candidate Starts for Worcestershire_59:

(69, 51723), (81, 51672), (103, 51621), (121, 51567), (131, 51537), (Start: 143 @51504 has 3 MA's), (149, 51495), (Start: 162 @51468 has 28 MA's), (227, 51300), (235, 51258), (254, 51210), (258, 51198), (262, 51186), (263, 51180), (269, 51159), (285, 51132), (377, 50991), (402, 50904), (403, 50889), (405, 50877), (411, 50847), (422, 50796), (430, 50769), (447, 50718), (456, 50694), (459, 50676), (465, 50658), (466, 50655), (472, 50628), (487, 50586), (503, 50541), (585, 50406), (589, 50391), (595, 50370), (641, 50289), (643, 50286), (657, 50229), (658, 50223), (659, 50217), (660, 50211), (680, 50136), (687, 50097), (690, 50085), (691, 50082), (718, 49989), (727, 49974), (737, 49953),

Gene: Xenia2_58 Start: 39008, Stop: 40912, Start Num: 66

Candidate Starts for Xenia2_58:

(Start: 53 @38990 has 13 MA's), (Start: 54 @38993 has 63 MA's), (Start: 66 @39008 has 2 MA's), (78, 39056), (93, 39089), (95, 39092), (173, 39275), (178, 39284), (214, 39356), (217, 39371), (221, 39380), (256, 39479), (274, 39539), (354, 39752), (368, 39785), (393, 39878), (398, 39893), (403, 39920), (406, 39941), (445, 40055), (458, 40097), (460, 40106), (473, 40145), (476, 40157), (495, 40202), (497, 40208), (506, 40253), (513, 40268), (578, 40361), (604, 40454), (649, 40607), (660, 40649), (665, 40667), (666, 40670), (699, 40808), (709, 40844), (734, 40898),

Gene: Yara_66 Start: 49125, Stop: 47230, Start Num: 54

Candidate Starts for Yara_66:

(Start: 54 @49125 has 63 MA's), (61, 49113), (64, 49110), (74, 49071), (85, 49047), (89, 49038), (97, 49026), (132, 48933), (159, 48870), (202, 48795), (214, 48771), (217, 48756), (255, 48645), (262, 48624), (276, 48576), (329, 48438), (385, 48240), (400, 48198), (408, 48147), (425, 48087), (427, 48081), (461, 47997), (506, 47892), (515, 47871), (524, 47853), (536, 47820), (580, 47772), (613, 47649), (618, 47637), (629, 47610), (650, 47520), (651, 47517), (668, 47451), (681, 47394), (684, 47376), (686, 47373), (704, 47301), (722, 47250),

Gene: Yelo_65 Start: 48022, Stop: 49782, Start Num: 191

Candidate Starts for Yelo_65:

(Start: 191 @48022 has 9 MA's), (218, 48091), (251, 48187), (256, 48196), (280, 48277), (300, 48322), (368, 48523), (382, 48571), (398, 48631), (402, 48643), (413, 48709), (454, 48832), (461, 48856), (468, 48880), (500, 49084), (506, 49117), (513, 49132), (530, 49171), (531, 49174), (534, 49183),

(583, 49252), (622, 49384), (649, 49507), (650, 49510), (658, 49537), (665, 49567), (667, 49573), (668, 49576), (673, 49594), (677, 49606), (709, 49741), (720, 49771),

Gene: Yikes_62 Start: 41734, Stop: 43647, Start Num: 54

Candidate Starts for Yikes_62:

(19, 41608), (21, 41617), (22, 41629), (33, 41662), (47, 41719), (Start: 53 @41731 has 13 MA's), (Start: 54 @41734 has 63 MA's), (Start: 66 @41746 has 2 MA's), (78, 41794), (93, 41827), (117, 41896), (155, 41986), (173, 42013), (178, 42022), (214, 42094), (255, 42214), (274, 42277), (314, 42367), (322, 42394), (368, 42523), (376, 42547), (383, 42589), (400, 42637), (403, 42658), (406, 42679), (423, 42736), (445, 42790), (458, 42832), (476, 42892), (506, 42988), (508, 42991), (598, 43168), (613, 43219), (642, 43309), (649, 43345), (651, 43351), (665, 43405), (677, 43444), (699, 43546), (703, 43561), (709, 43582),

Gene: Yndexa_71 Start: 54175, Stop: 52319, Start Num: 113

Candidate Starts for Yndexa_71:

(9, 54592), (12, 54574), (17, 54499), (Start: 35 @54400 has 34 MA's), (Start: 113 @54175 has 3 MA's), (235, 53881), (255, 53848), (262, 53827), (277, 53773), (279, 53767), (281, 53764), (318, 53674), (320, 53671), (342, 53611), (388, 53455), (427, 53308), (461, 53200), (468, 53176), (500, 53074), (515, 53020), (522, 53005), (556, 52924), (583, 52885), (599, 52822), (604, 52783), (607, 52777), (617, 52747), (649, 52630), (666, 52567), (681, 52504), (684, 52486), (707, 52402),

Gene: Zanella_33 Start: 23260, Stop: 24687, Start Num: 207

Candidate Starts for Zanella_33:

(188, 23218), (Start: 207 @23260 has 19 MA's), (361, 23578), (403, 23725), (406, 23746), (480, 24013), (500, 24061), (502, 24082), (525, 24139), (538, 24172), (554, 24208), (608, 24286), (615, 24307), (642, 24388), (643, 24391), (663, 24478), (668, 24490), (679, 24529), (684, 24565), (687, 24571), (688, 24574), (690, 24583), (706, 24646),

Gene: Zany_58 Start: 41140, Stop: 43056, Start Num: 53

Candidate Starts for Zany_58:

(Start: 53 @41140 has 13 MA's), (Start: 54 @41143 has 63 MA's), (Start: 66 @41155 has 2 MA's), (78, 41203), (93, 41236), (117, 41305), (155, 41395), (173, 41422), (178, 41431), (214, 41503), (255, 41623), (274, 41686), (286, 41713), (314, 41776), (322, 41803), (368, 41932), (376, 41956), (383, 41998), (400, 42046), (403, 42067), (406, 42088), (423, 42145), (445, 42199), (458, 42241), (476, 42301), (506, 42397), (508, 42400), (613, 42628), (642, 42718), (649, 42754), (651, 42760), (665, 42814), (677, 42853), (699, 42955), (703, 42970), (709, 42991),

Gene: Zenon_68 Start: 47968, Stop: 49728, Start Num: 191

Candidate Starts for Zenon_68:

(Start: 191 @47968 has 9 MA's), (218, 48037), (251, 48133), (256, 48142), (280, 48223), (300, 48268), (368, 48469), (382, 48517), (398, 48577), (402, 48589), (413, 48655), (454, 48778), (461, 48802), (468, 48826), (500, 49030), (506, 49063), (513, 49078), (530, 49117), (531, 49120), (534, 49129), (583, 49198), (622, 49330), (649, 49453), (650, 49456), (658, 49483), (665, 49513), (667, 49519), (668, 49522), (673, 49540), (677, 49552), (709, 49687), (720, 49717),

Gene: Zion_72 Start: 52509, Stop: 50584, Start Num: 65

Candidate Starts for Zion_72:

(32, 52602), (34, 52596), (Start: 65 @52509 has 8 MA's), (128, 52338), (150, 52284), (235, 52080), (297, 51924), (318, 51873), (320, 51870), (332, 51828), (369, 51741), (370, 51738), (385, 51666), (390, 51657), (499, 51306), (500, 51300), (506, 51267), (634, 50928), (651, 50862), (655, 50850), (659, 50832), (666, 50805), (681, 50742), (689, 50709), (708, 50637),

Gene: Zooman_98 Start: 76212, Stop: 74272, Start Num: 63

Candidate Starts for Zooman_98:

(Start: 63 @76212 has 10 MA's), (111, 76086), (119, 76059), (163, 75966), (165, 75963), (Start: 215 @75891 has 28 MA's), (235, 75810), (247, 75786), (336, 75510), (405, 75225), (409, 75204), (441, 75114), (461, 75054), (463, 75045), (468, 75030), (499, 74988), (500, 74982), (506, 74949), (512, 74937), (515, 74928), (526, 74904), (552, 74844), (571, 74808), (608, 74712), (610, 74706), (632, 74643), (635, 74622), (637, 74616), (658, 74541), (659, 74535), (663, 74514), (680, 74454), (688, 74412), (694, 74388), (696, 74376),

Gene: Zorro_29 Start: 22105, Stop: 23505, Start Num: 203

Candidate Starts for Zorro_29:

(Start: 203 @22105 has 73 MA's), (220, 22168), (259, 22273), (260, 22276), (292, 22360), (350, 22393), (374, 22444), (378, 22450), (399, 22531), (400, 22534), (402, 22540), (406, 22576), (410, 22594), (411, 22597), (417, 22630), (423, 22651), (440, 22702), (467, 22783), (474, 22810), (486, 22840), (490, 22849), (500, 22876), (506, 22909), (513, 22924), (535, 22978), (544, 22999), (550, 23011), (578, 23023), (651, 23245), (654, 23254), (656, 23260), (663, 23296), (680, 23356), (684, 23383), (709, 23473),